# Eastbound State Route 91 / Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project

LOS ANGELES COUNTY, CALIFORNIA DISTRICT 7 - LA - 91 (PM R11.8/R13.2) 07-354600/0718000343



Prepared by the State of California, Department of Transportation and Los Angeles County Metropolitan Transportation Authority

**MAY 2021** 

# Mitigated Negative Declaration / Finding of No Significant Impact

The environmental review, consultation, and any other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by Caltrans pursuant to 23 USC 327 and the Memorandum of Understanding dated December 23, 2016, and executed by FHWA and Caltrans.

SCH # 2020120326 07-LA-91-PM R11.8/R13.2 07-354600 0718000343

Develop and implement an auxiliary lane to enhance safety conditions, reduce congestion, and improve freeway operations on eastbound State Route 91, from Atlantic Avenue to Cherry Avenue (Postmile R11.8 to Postmile R13.2)

#### INITIAL STUDY WITH PROPOSED MITIGATED NEGATIVE DECLARATION/ENVIRONMENTAL ASSESSMENT

Submitted Pursuant to: (State) Division 13, California Public Resources Code (Federal) 42 USC 4332(2)(C)

#### THE STATE OF CALIFORNIA Department of Transportation

Responsible Agencies: California Transportation Commission, Los Angeles County Metropolitan Transportation Authority, Gateway Cities Council of Governments

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SCH:2020120326

#### MITIGATED NEGATIVE DECLARATION

Pursuant to: Division 13, Public Resources Code

#### **Project Description**

The Los Angeles County Metropolitan Transportation Authority (Metro), in cooperation with the Gateway Cities Council of Governments and the California Department of Transportation (Caltrans) District 7, proposes to develop and implement an auxiliary lane on Eastbound State Route 91 within a 1.4-mile segment from the southbound Interstate 710 (I-710) interchange connector to Eastbound State Route 91, to Cherry Avenue. The Study Area includes Eastbound State Route 91 (Post Miles [PM] R11.8/R13.2) and is located in the City of Long Beach and adjacent to the City of Paramount, California.

#### Determination

Caltrans has prepared an Initial Study for this project and, following public review, has determined from this study that the proposed Project would not have a significant effect on the environment for the following reasons:

The Project would have no effect on aesthetics, agriculture and forest resources, cultural resources, energy, land use and planning, mineral resources, population and housing, recreation, tribal cultural resources, and wildfire.

In addition, the proposed Project would have less than significant effects to air quality, biological resources, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, public services, transportation, and utilities and service systems.

With incorporation of the mitigation measures identified in Appendix A, the proposed Project would have less than significant effects to noise, and geology and soils.

Ron Kosinski Deputy District Director District 7, Division of Environmental Planning California Department of Transportation

May 2.4, 2021 Date 7

### CALIFORNIA DEPARTMENT OF TRANSPORTATION FINDING OF NO SIGNIFICANT IMPACT (FONSI)

FOR

# EASTBOUND STATE ROUTE 91 / ATLANTIC AVENUE TO CHERRY AVENUE AUXILIARY LANE IMPROVEMENTS PROJECT

The California Department of Transportation (Caltrans) has determined that Alternative 2 (Build Alternative) will have no significant impact on the human environment. This FONSI is based on the attached Environmental Assessment (EA) which has been independently evaluated by Caltrans and determined to adequately and accurately discuss the need, environmental issues, and impacts of the proposed project and appropriate mitigation measures. It provides sufficient evidence and analysis for determining that an Environmental Impact Statement is not required. Caltrans takes full responsibility for the accuracy, scope, and content of the attached EA (and other documents as appropriate).

The environmental review, consultation, and any other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by Caltrans pursuant to 23 USC 327 and the Memorandum of Understanding dated December 23, 2016 and executed by FHWA and Caltrans.

Ron Kosinski Deputy District Director District 7, Division of Environmental Planning California Department of Transportation

Date

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# Chapter 1 – Proposed Project

## 1.1 NEPA Assignment

California participated in the "Surface Transportation Project Delivery Pilot Program" (Pilot Program) pursuant to 23 USC 327, for more than five years, beginning July 1, 2007, and ending September 30, 2012. MAP-21 (P.L. 112-141), signed by President Obama on July 6, 2012, amended 23 USC 327 to establish a permanent Surface Transportation Project Delivery Program. As a result, Caltrans entered into a Memorandum of Understanding pursuant to 23 USC 327 (NEPA Assignment MOU) with the Federal Highway Administration. The NEPA Assignment MOU became effective October 1, 2012, and was renewed on December 23, 2016, for a term of five years. In summary, Caltrans continues to assume Federal Highway Administration responsibilities under NEPA and other federal environmental laws in the same manner as was assigned under the Pilot Program, with minor changes. With NEPA Assignment, the Federal Highway Administration assigned and Caltrans assumed all of the United States Department of Transportation (USDOT) Secretary's responsibilities under NEPA. This assignment includes projects on the State Highway System and Local Assistance Projects off of the State Highway System within the State of California, except for certain categorical exclusions that the Federal Highway Administration assigned to Caltrans under the 23 USC 326 CE Assignment MOU, projects excluded by definition, and specific project exclusions.

On July 16th, 2020, the Council on Environmental Quality (CEQ) published in the Federal Register the Final Rule to update its regulations for the implementation of NEPA. The updates are effective for all NEPA reviews that begin after September 14, 2020. For reviews that began prior to September 14, 2020, agencies may decide to apply the revised regulations or proceed under the 1978 regulations. Because NEPA reviews for this project were in process before the Final Rule's effective date, the Department is applying the 1978 NEPA procedures to this proposed action.

## 1.2 Introduction

The Los Angeles County Metropolitan Transportation Authority (Metro), in cooperation with the Gateway Cities Council of Governments and the California Department of Transportation (Caltrans) District 7, proposes to develop and implement an auxiliary lane on Eastbound State Route 91 within a 1.4-mile segment from the southbound Interstate 710 (I-710) to Eastbound State Route 91, to Cherry Avenue. The Study Area includes Eastbound State Route 91 (Post Miles [PM] R11.8/R13.2) and is located in the City of Long Beach and adjacent to the City of Paramount, California. **Figure 1** below provides an illustration of the regional location, and **Figure 2** below provides an illustration of the Project location.

Funding is currently being provided through a Senate Bill 1 2020 Trade Corridor Enhancement Program (TCEP) Grant and Metro's local Measure R half-cent sales tax program funds with the potential of additional future federal and state funding sources. Caltrans is the lead agency ensuring compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) as assigned by the Federal Highway Administration.



Figure 1: Regional Location Map

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Figure 2: Project Location Map

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

The Project is included in the Southern California Association of Governments (SCAG) 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy as Project No. 1163S005, and the 2019 Federal Transportation Improvement Program as Federal Transportation Improvement Program ID LA0G1453.

In 2012, Metro and the Gateway Cities Council of Governments initiated the State Route 91/I-605/I-405 "Congestion Hot Spots Feasibility Study" to identify freeway and arterial "Hot Spots" throughout the corridor. Building off those findings, Metro and Caltrans initiated a Project Study Report-Project Development Support for the State Route 91 corridor between Central Avenue (PM 8.2) and Paramount Boulevard (PM 13.8) in 2015.

The Project Study Report-Project Development Support served as the Project Initiation Document (PID), identified alternatives and design options that would improve mobility within the Study Area, and estimated the capital outlay support cost necessary to complete the technical studies and analyses for the Project Approval/Environmental Document phase (PA/ED or the "environmental phase"). As discussed in the Project Report, State Route 91 experiences substantial congestion, which is forecast to increase in the absence of physical and operational improvements. The existing (and forecasted) traffic volumes along the Eastbound State Route 91 mainline with the short weaving distances between the closely spaced interchanges of the I-710 on-ramps, Atlantic Avenue, and Cherry Avenue result in congested operations at the confluence area between the I-710 to Eastbound State Route 91 connectors and the Cherry Avenue off-ramp. Operational improvements through the implementation of an eastbound auxiliary lane between the southbound I-710 connector on-ramp and the Cherry Avenue offramp can enhance safety conditions, reduce congestion, improve freeway operations on both the Eastbound State Route 91 mainline and ramps, and better accommodate projected regional growth.

### 1.3 Purpose and Need

#### 1.3.1 PURPOSE

The purpose of the Eastbound State Route 91 Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project (Project) is to enhance safety conditions, reduce congestion, and improve freeway operations on both the Eastbound State Route 91 mainline and ramps.

#### 1.3.2 NEED

#### **Roadway Deficiencies**

Eastbound State Route 91 experiences substantial congestion due to operational deficiencies within the Project Area, which is forecast to increase if no physical and operational improvements are made to the facility. The Project is needed to address operational safety due to the short weaving distance along Eastbound State Route 91 between the closely spaced interchanges of the I-710 to Eastbound State Route 91 connectors, Atlantic Avenue, and Cherry Avenue which impacts mainline congestion.

#### Capacity, Transportation Demand, and Safety

As discussed in the Project Report, State Route 91 experiences substantial congestion, which is forecast to increase in the absence of physical and operational improvements. According to SCAG regional growth forecasts, population, households, and employment growth is expected to continue increasing, as shown in **Table 1**. The existing and forecasted traffic volumes along the Eastbound State Route 91 mainline, as shown in **Table 2**, with the short weaving distances between the closely spaced interchanges of the I-710 to Eastbound State Route 91 connectors, Atlantic Avenue, and Cherry Avenue result in congested operations at the confluence area between the I-710 to Eastbound State Route 91 connectors and the Cherry Avenue off-ramp.

Level of service provides a qualitative measure of capacity based on density of passenger cars per mile per lane (Level of service decreases as density increases) for freeway on- and offramps and delay of approaching vehicles for intersections. Level of service is expressed as a letter ranging from A (free flow traffic with low volume and high speeds) to F (breakdown in traffic flow, queues forming behind breakdown points). The freeway level of service is based on vehicle density, measured in passenger cars per mile per lane (pc/mi/ln), within the segment being analyzed. The criteria for each level of service designation is presented in **Table 3**.

Existing conditions for the freeway mainline, ramps, and weaving segments evaluated within the Project Area show several segments currently operate at level of service D or lower during one or both peak hour periods, as shown in **Table 4**.

Level of service would continue to deteriorate under the No Build Alternative and all segments are projected to operate at a level of service D or lower by opening year (2024) and horizon year (2045) during the P.M. peak hour.

An analysis of mainline and ramp collision history was performed using the Caltrans Traffic Accident Surveillance and Analysis System (TASAS) database. As shown in **Table 5**, the total accident rates (which include fatal, injury, and property damage only (PDO) accidents) range from 0.47 to 1.76 accidents per million vehicle miles on the mainline; and from 0 to 3.01 on the ramps. In addition, total accident rates range from about 30 percent to about 73 percent higher than the total statewide average accident rate, except for the segment between the Long Beach Boulevard interchange and the I-710 interchange, where the actual total accident rate is about 107 percent higher than the total statewide average accident rate.

Five of the ten ramp segments analyzed within the Study Area, show that both the Fatal plus Injury and the Total Actual Accident Rates are greater than the statewide average accident rates. In addition, two of the ten ramp segments show Total Actual Accident Rates greater than the statewide average total accident rates. Most of the accident types are rear ends and sideswipes with the reported primary collision factor being unsafe speed. Most of the accidents reported on the ramp segments occurred on the body of the ramp and at the ramp terminus intersection location. The predominant location, type, and primary collision factors of the reported accidents are considered congestion related and are mainly due to the formation of vehicular queues. In general, this data shows that the accidents on the ramps were indicative of collisions related to congestion and/or existing ramp and intersection geometry.

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#### Table 1: Growth Forecast in the County and SCAG Region

| Geographic Area    | Population<br>(2016) | Population<br>(2045) | Population<br>(Annual<br>Growth<br>Rate) | Households<br>(2016) | Households<br>(2045) | Households<br>(Annual<br>Growth<br>Rate) | Employment<br>(2016) | Employment<br>(2045) | Employment<br>(Annual<br>Growth Rate) |
|--------------------|----------------------|----------------------|------------------------------------------|----------------------|----------------------|------------------------------------------|----------------------|----------------------|---------------------------------------|
| Los Angeles County | 10,111,000           | 11,677,000           | 0.50%                                    | 3,319,000            | 4,125,000            | 0.70%                                    | 4,743,000            | 5,383,000            | 0.40%                                 |
| SCAG Region        | 18,832,418           | 22,507,188           | 0.61%                                    | 6,011,672            | 7,638,633            | 0.92%                                    | 8,389,000            | 10,050,000           | 0.62%                                 |

Source: Southern California Association of Governments, 2020

Notes: % = Percent; SCAG = Southern California Association of Governments

#### Table 2: Traffic Volumes for Existing and Forecast Conditions (No Build Alternative)

| Segment Location                                                  | Existing<br>Conditions<br>(2019) A.M.<br>Peak Hour<br>(Mixed-<br>Flow) | Existing<br>Conditions<br>(2019) A.M.<br>Peak Hour<br>(HOV) | Existing<br>Conditions<br>(2019) P.M.<br>Peak Hour<br>(Mixed-<br>Flow) | Existing<br>Conditions<br>(2019) P.M.<br>Peak Hour<br>(HOV) | Opening<br>Year<br>(2024)<br>A.M.<br>Peak<br>Hour<br>(Mixed-<br>Flow) | Opening<br>Year<br>(2024)<br>A.M.<br>Peak<br>Hour<br>(HOV) | Opening<br>Year<br>(2024)<br>P.M.<br>Peak<br>Hour<br>(Mixed<br>Flow) | Opening<br>Year<br>(2024)<br>P.M.<br>Peak<br>Hour<br>(HOV) | Horizon<br>Year<br>(2045)<br>A.M.<br>Peak<br>Hour<br>(Mixed-<br>Flow) | Horizon<br>Year<br>(2045)<br>A.M.<br>Peak<br>Hour<br>(HOV) | Horizon<br>Year<br>(2045)<br>P.M.<br>Peak<br>Hour<br>(Mixed-<br>Flow) | Horizon<br>Year<br>(2045)<br>P.M.<br>Peak<br>Hour<br>(HOV) |
|-------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|
| West of Northbound<br>I-710 Connector                             | 2164                                                                   | 632                                                         | 3173                                                                   | 1413                                                        | 2190                                                                  | 634                                                        | 3178                                                                 | 1417                                                       | 2294                                                                  | 642                                                        | 3198                                                                  | 1431                                                       |
| Northbound I-710<br>Connector                                     | 2149                                                                   | -                                                           | 1791                                                                   | -                                                           | 2155                                                                  | -                                                          | 1809                                                                 | -                                                          | 2182                                                                  | -                                                          | 1871                                                                  | -                                                          |
| Northbound I-710<br>Connector to<br>Southbound I-710<br>Connector | 4313                                                                   | 632                                                         | 4964                                                                   | 1413                                                        | 4345                                                                  | 634                                                        | 4987                                                                 | 1417                                                       | 4476                                                                  | 642                                                        | 5069                                                                  | 1431                                                       |
| Southbound I-710<br>Connector                                     | 1607                                                                   | -                                                           | 1952                                                                   | -                                                           | 1609                                                                  | -                                                          | 1954                                                                 | -                                                          | 1615                                                                  | -                                                          | 1961                                                                  | -                                                          |
| Southbound I-710<br>Connector to<br>Atlantic Avenue On-<br>Ramp   | 5920                                                                   | 632                                                         | 6916                                                                   | 1413                                                        | 5954                                                                  | 634                                                        | 6941                                                                 | 1417                                                       | 6091                                                                  | 642                                                        | 7030                                                                  | 1431                                                       |
| Atlantic Avenue On-<br>Ramp                                       | 592                                                                    | -                                                           | 714                                                                    | -                                                           | 598                                                                   | -                                                          | 719                                                                  | -                                                          | 626                                                                   | -                                                          | 744                                                                   | -                                                          |
| HOV Lane Egress                                                   | -                                                                      | 158                                                         | -                                                                      | 129                                                         | -                                                                     | 162                                                        | -                                                                    | 134                                                        | -                                                                     | 179                                                        | -                                                                     | 152                                                        |

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| Segment Location                                                     | Existing<br>Conditions<br>(2019) A.M.<br>Peak Hour<br>(Mixed-<br>Flow) | Existing<br>Conditions<br>(2019) A.M.<br>Peak Hour<br>(HOV) | Existing<br>Conditions<br>(2019) P.M.<br>Peak Hour<br>(Mixed-<br>Flow) | Existing<br>Conditions<br>(2019) P.M.<br>Peak Hour<br>(HOV) | Opening<br>Year<br>(2024)<br>A.M.<br>Peak<br>Hour<br>(Mixed-<br>Flow) | Opening<br>Year<br>(2024)<br>A.M.<br>Peak<br>Hour<br>(HOV) | Opening<br>Year<br>(2024)<br>P.M.<br>Peak<br>Hour<br>(Mixed<br>Flow) | Opening<br>Year<br>(2024)<br>P.M.<br>Peak<br>Hour<br>(HOV) | Horizon<br>Year<br>(2045)<br>A.M.<br>Peak<br>Hour<br>(Mixed-<br>Flow) | Horizon<br>Year<br>(2045)<br>A.M.<br>Peak<br>Hour<br>(HOV) | Horizon<br>Year<br>(2045)<br>P.M.<br>Peak<br>Hour<br>(Mixed-<br>Flow) | Horizon<br>Year<br>(2045)<br>P.M.<br>Peak<br>Hour<br>(HOV) |
|----------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|
| HOV Lane Ingress                                                     | -                                                                      | 515                                                         | -                                                                      | 191                                                         | -                                                                     | 520                                                        | -                                                                    | 196                                                        | -                                                                     | 541                                                        | -                                                                     | 215                                                        |
| Atlantic Avenue On-<br>Ramp to Cherry<br>Avenue Off-Ramp             | 6512                                                                   | 989                                                         | 7630                                                                   | 1475                                                        | 6552                                                                  | 992                                                        | 7660                                                                 | 1479                                                       | 6717                                                                  | 1004                                                       | 7774                                                                  | 1494                                                       |
| Cherry Avenue Off-<br>Ramp                                           | 535                                                                    | -                                                           | 347                                                                    | -                                                           | 557                                                                   | -                                                          | 356                                                                  | -                                                          | 648                                                                   | -                                                          | 395                                                                   | -                                                          |
| Cherry Avenue Off-<br>Ramp to Cherry<br>Avenue On-Ramp               | 5620                                                                   | 989                                                         | 7221                                                                   | 1475                                                        | 5637                                                                  | 992                                                        | 7242                                                                 | 1479                                                       | 5707                                                                  | 1004                                                       | 7316                                                                  | 1494                                                       |
| Cherry Avenue On-<br>Ramp                                            | 824                                                                    | -                                                           | 774                                                                    | -                                                           | 837                                                                   | -                                                          | 791                                                                  | -                                                          | 893                                                                   | -                                                          | 859                                                                   | -                                                          |
| Cherry Avenue On-<br>Ramp to Paramount<br>Boulevard Off-Ramp         | 6444                                                                   | 989                                                         | 7995                                                                   | 1475                                                        | 6474                                                                  | 992                                                        | 8033                                                                 | 1479                                                       | 6600                                                                  | 1004                                                       | 8175                                                                  | 1494                                                       |
| Paramount<br>Boulevard Off-Ramp                                      | 665                                                                    | -                                                           | 452                                                                    | -                                                           | 677                                                                   | -                                                          | 470                                                                  | -                                                          | 728                                                                   | -                                                          | 547                                                                   | -                                                          |
| Paramount<br>Boulevard Off-Ramp<br>to Paramount<br>Boulevard On-Ramp | 5779                                                                   | 989                                                         | 7543                                                                   | 1475                                                        | 5797                                                                  | 992                                                        | 7563                                                                 | 1479                                                       | 5872                                                                  | 1004                                                       | 7628                                                                  | 1494                                                       |
| Paramount<br>Boulevard On-Ramp                                       | 380                                                                    | -                                                           | 499                                                                    | -                                                           | 381                                                                   | -                                                          | 512                                                                  | -                                                          | 389                                                                   | -                                                          | 566                                                                   | -                                                          |
| East of Paramount<br>Boulevard On-Ramp                               | 6159                                                                   | 989                                                         | 8042                                                                   | 1475                                                        | 6178                                                                  | 992                                                        | 8075                                                                 | 1479                                                       | 6261                                                                  | 1004                                                       | 8194                                                                  | 1494                                                       |

Source: Iteris, 2020 Notes: HOV = High-Occupancy Vehicle; I-710 = Interstate 710

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI

| Level of Service | Basic Freeway and HOV<br>Segments Density (pc/mi/ln) | Merge and Diverge Areas<br>Density (pc/mi/ln) | Freeway Weaving Segments<br>Density (pc/mi/ln) |
|------------------|------------------------------------------------------|-----------------------------------------------|------------------------------------------------|
| A                | 0 - 11                                               | 0 - 10                                        | 0 - 10                                         |
| В                | > 11 - 18                                            | > 10 - 20                                     | > 10 - 20                                      |
| С                | > 18 - 26                                            | > 20 - 28                                     | > 20 - 28                                      |
| D                | > 26 - 35                                            | > 28 - 35                                     | > 28 - 35                                      |
| E                | > 35 - 45                                            | > 35                                          | > 35 – 43                                      |
| F                | Demand Exceeds Capacity or<br>density > 45           | Demand Exceeds Capacity                       | Demand Exceeds Capacity or<br>density > 43     |

#### Table 3: Level of Service Criteria – Freeway and Ramp Segments

Source: Highway Capacity Manual 6<sup>th</sup> Edition Notes: HOV = High-Occupancy Vehicle; pc/mi/ln = passenger cars per mile per lane

#### Table 4: Level of Service for Existing and Forecast Conditions (No Build Alternative)

| Location                                                                                                                       | Segment<br>Type          | Existing<br>Conditions<br>(2019) A.M.<br>Peak Hour<br>Density | Existing<br>Conditions<br>(2019) A.M.<br>Peak Hour<br>Level of<br>Service | Existing<br>Conditions<br>(2019) P.M.<br>Peak Hour<br>Density | Existing<br>Conditions<br>(2019) P.M.<br>Peak Hour<br>Level of<br>Service | Opening<br>Year (2024)<br>A.M. Peak<br>Hour Density | Opening<br>Year (2024)<br>A.M. Peak<br>Hour Level<br>of Service | Opening<br>Year (2024)<br>P.M. Peak<br>Hour Density | Opening<br>Year (2024)<br>P.M. Peak<br>Hour Level<br>of service | Horizon Year<br>(2045) A.M.<br>Peak Hour<br>Density | Horizon Year<br>(2045) A.M.<br>Peak Hour<br>Level of<br>Service | Horizon Year<br>(2045) P.M.<br>Peak Hour<br>Density | Horizon Year<br>(2045) P.M.<br>Peak Hour<br>Level of<br>service |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|
| West of I-710 Northbound Connector                                                                                             | Basic Freeway<br>Segment | 11.9                                                          | В                                                                         | 30.4                                                          | D                                                                         | 12.2                                                | В                                                               | 30.4                                                | D                                                               | 13.0                                                | В                                                               | 30.6                                                | D                                                               |
| I-710 Northbound Connector to I-710 Southbound<br>Connector                                                                    | Basic Freeway<br>Segment | 19.4                                                          | С                                                                         | 44.8                                                          | E                                                                         | 19.7                                                | С                                                               | 45.1                                                | F                                                               | 20.7                                                | С                                                               | 46.2                                                | F                                                               |
| I-710 Southbound Connector to Atlantic Avenue<br>On-Ramp                                                                       | Basic Freeway<br>Segment | 24.3                                                          | С                                                                         | 67.1                                                          | F                                                                         | 24.6                                                | С                                                               | 67.4                                                | F                                                               | 26.3                                                | D                                                               | 70.2                                                | F                                                               |
| Cherry Avenue Off-Ramp to Cherry Avenue On-<br>Ramp                                                                            | Basic Freeway<br>Segment | 30.4                                                          | D                                                                         | 59.3                                                          | F                                                                         | 30.8                                                | D                                                               | 59.4                                                | F                                                               | 32.5                                                | D                                                               | 61.8                                                | F                                                               |
| Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp                                                                 | Basic Freeway<br>Segment | 30.1                                                          | D                                                                         | 46.8                                                          | F                                                                         | 30.5                                                | D                                                               | 46.9                                                | F                                                               | 32.3                                                | D                                                               | 48.6                                                | F                                                               |
| East of Paramount Boulevard On-Ramp                                                                                            | Basic Freeway<br>Segment | 26.6                                                          | D                                                                         | 44.9                                                          | E                                                                         | 27.0                                                | D                                                               | 45.1                                                | F                                                               | 28.6                                                | D                                                               | 47.0                                                | F                                                               |
| West of I-710 Northbound Connector                                                                                             | HOV Lane<br>Segment      | 10.7                                                          | А                                                                         | 75.1                                                          | F                                                                         | 10.7                                                | A                                                               | 75.4                                                | F                                                               | 10.8                                                | А                                                               | 76.1                                                | F                                                               |
| I-710 Northbound Connector to I-710 Southbound<br>Connector                                                                    | HOV Lane<br>Segment      | 10.7                                                          | А                                                                         | 75.1                                                          | F                                                                         | 10.7                                                | A                                                               | 75.4                                                | F                                                               | 10.8                                                | А                                                               | 76.1                                                | F                                                               |
| I-710 Southbound Connector to Atlantic Avenue<br>On-Ramp                                                                       | HOV Lane<br>Segment      | 10.7                                                          | А                                                                         | 75.1                                                          | F                                                                         | 10.7                                                | А                                                               | 75.4                                                | F                                                               | 10.8                                                | А                                                               | 76.1                                                | F                                                               |
| Atlantic Avenue On-Ramp to Cherry Avenue Off-<br>Ramp                                                                          | HOV Lane<br>Segment      | 22.0                                                          | С                                                                         | 56.7                                                          | F                                                                         | 22.1                                                | С                                                               | 56.9                                                | F                                                               | 22.7                                                | С                                                               | 57.7                                                | F                                                               |
| Cherry Avenue Off-Ramp to Cherry Avenue On-<br>Ramp                                                                            | HOV Lane<br>Segment      | 18.5                                                          | С                                                                         | 56.0                                                          | F                                                                         | 18.5                                                | С                                                               | 56.2                                                | F                                                               | 18.7                                                | С                                                               | 56.8                                                | F                                                               |
| Cherry Avenue On-Ramp to Paramount<br>Boulevard Off-Ramp                                                                       | HOV Lane<br>Segment      | 18.5                                                          | С                                                                         | 56.0                                                          | F                                                                         | 18.5                                                | С                                                               | 56.2                                                | F                                                               | 18.7                                                | С                                                               | 56.8                                                | F                                                               |
| Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp                                                                 | HOV Lane<br>Segment      | 18.5                                                          | С                                                                         | 56.0                                                          | F                                                                         | 18.5                                                | С                                                               | 56.2                                                | F                                                               | 18.7                                                | С                                                               | 56.8                                                | F                                                               |
| East of Paramount Boulevard On-Ramp                                                                                            | HOV Lane<br>Segment      | 18.5                                                          | С                                                                         | 56.0                                                          | F                                                                         | 18.5                                                | С                                                               | 56.2                                                | F                                                               | 18.7                                                | С                                                               | 56.8                                                | F                                                               |
| Atlantic Avenue On-Ramp to Cherry Avenue Off-<br>Ramp Conventional weave between auxiliary lane<br>and the freeway mainline    | Weaving<br>Segment       | 27.9                                                          | С                                                                         | 50.1                                                          | F                                                                         | 28.3                                                | С                                                               | 50.3                                                | F                                                               | 30.0                                                | D                                                               | 52.3                                                | F                                                               |
| Atlantic Avenue On-Ramp to Cherry Avenue Off-<br>Ramp Managed lane access segment with cross-<br>weaving                       | Weaving<br>Segment       | 22.0                                                          | С                                                                         | 56.7                                                          | F                                                                         | 22.1                                                | С                                                               | 56.9                                                | F                                                               | 22.7                                                | С                                                               | 57.7                                                | F                                                               |
| Cherry Avenue On-Ramp to Paramount<br>Boulevard Off-Ramp Conventional weave<br>between auxiliary lane and the freeway mainline | Weaving<br>Segment       | 27.7                                                          | D                                                                         | 52.6                                                          | F                                                                         | 28.0                                                | D                                                               | 52.8                                                | F                                                               | 29.5                                                | D                                                               | 55.0                                                | F                                                               |

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020) Notes: HOV = High=Occupancy Vehicle; I-710 = Interstate 710 Density is equal to passenger cars per mile per lane.

#### Table 5: Summary of Accident Rates in Project Area (2016-2018)

| Location Description                                                          | From<br>Post<br>Mile | To<br>Post<br>Mile | Direction | Total<br>Accidents | Actual<br>Accident Rates<br>(Fatal) | Actual Accident<br>Rates (Fatal plus<br>Injury) | Actual<br>Accident Rates<br>(Total) | Statewide Average<br>Accident Rates<br>(Fatal) | Statewide Average<br>Accident Rates (Fatal<br>plus Injury) | Statewide Average<br>Accident Rates<br>(Total) |
|-------------------------------------------------------------------------------|----------------------|--------------------|-----------|--------------------|-------------------------------------|-------------------------------------------------|-------------------------------------|------------------------------------------------|------------------------------------------------------------|------------------------------------------------|
| Long Beach Boulevard to I-710 Interchange (Mainline)                          | 11.096               | 11.681             | Eastbound | 125                | 0                                   | 0.48                                            | 1.76                                | 0.003                                          | 0.26                                                       | 0.85                                           |
| I-710 Interchange to Atlantic Avenue (Mainline)                               | 11.681               | 12.039             | Eastbound | 25                 | 0                                   | 0.06                                            | 0.47                                | 0.003                                          | 0.34                                                       | 1.09                                           |
| Atlantic Avenue to Cherry Avenue (Mainline)                                   | 12.039               | 13.094             | Eastbound | 251                | 0                                   | 0.44                                            | 1.59                                | 0.003                                          | 0.28                                                       | 0.92                                           |
| Cherry Avenue Paramount Boulevard (Mainline)                                  | 13.094               | 13.594             | Eastbound | 92                 | 0                                   | 0.30                                            | 1.21                                | 0.003                                          | 0.28                                                       | 0.93                                           |
| Eastbound State Route 91 On-Ramp from Long Beach Boulevard                    | 11.043               | 11.043             | Eastbound | 10                 | 0                                   | 0.35                                            | 1.73                                | 0.001                                          | 0.23                                                       | 0.67                                           |
| Eastbound State Route 91 Off-Ramp to Southbound I-710 Freeway                 | 11.421               | 11.421             | Eastbound | 7                  | 0                                   | 0.41                                            | 0.72                                | 0.003                                          | 0.12                                                       | 0.37                                           |
| Eastbound State Route 91 Off-Ramp to Northbound I-710 Freeway/Atlantic Avenue | 11.588               | 11.588             | Eastbound | 4                  | 0                                   | 0.00                                            | 0.13                                | 0.002                                          | 0.08                                                       | 0.25                                           |
| Eastbound State Route 91 Off-Ramp Segment to Atlantic Avenue                  | 11.748               | 11.748             | Eastbound | 14                 | 0                                   | 0.86                                            | 3.01                                | 0.004                                          | 0.32                                                       | 0.92                                           |
| Eastbound State Route 91 On-Ramp from Northbound I-710 Freeway                | 11.794               | 11.794             | Eastbound | 17                 | 0                                   | 0.07                                            | 0.63                                | 0.002                                          | 0.11                                                       | 0.32                                           |
| Eastbound State Route 91 On-Ramp from Southbound I-710 Freeway                | 11.994               | 11.994             | Eastbound | 0                  | 0                                   | 0.00                                            | 0.00                                | 0.002                                          | 0.11                                                       | 0.32                                           |
| Eastbound State Route 91 On-Ramp from Atlantic Avenue                         | 12.240               | 12.240             | Eastbound | 9                  | 0                                   | 0.23                                            | 1.03                                | 0.002                                          | 0.21                                                       | 0.60                                           |
| Eastbound State Route 91 Off-Ramp to Cherry Avenue                            | 12.968               | 12.968             | Eastbound | 8                  | 0                                   | 0.10                                            | 0.79                                | 0.004                                          | 0.32                                                       | 0.92                                           |
| Eastbound State Route 91 On-Ramp from Cherry Avenue                           | 13.263               | 13.263             | Eastbound | 9                  | 0                                   | 0.00                                            | 0.74                                | 0.002                                          | 0.21                                                       | 0.60                                           |
| Eastbound State Route 91 Off-Ramp to Paramount Boulevard                      | 13.452               | 13.452             | Eastbound | 16                 | 0                                   | 0.84                                            | 1.92                                | 0.004                                          | 0.32                                                       | 0.92                                           |

Source: Caltrans Traffic Accident Surveillance and Analysis System (TASAS) Database; Final Traffic Operations Analysis Report (Intueor Consulting, September 2020) Notes: I-710 = Interstate 710

Accident rates are expressed as the number of accidents per million vehicle miles. Average accident rates are for similar facilities throughout the state of California.

# Chapter 1 – Proposed Project

It is anticipated that the proposed Project improvement will improve overall interchange operations between the I-710 and Atlantic Avenue on-ramps and the Cherry Avenue off-ramp, help relieve congestion and, therefore, help reduce congestion related accident rates.

## 1.4 Independent Utility and Logical Termini

Federal regulations (23 Code of Federal Regulations [CFR] 771.111(f)) require that "independent utility" and "logical termini" be established for a transportation improvement project evaluated under NEPA. The Project limits were defined based on providing an independent and logical set of improvements. A project is defined as having independent utility if it meets the project purpose in the absence of other improvements in the project limits. Logical termini are defined as rational end points for transportation improvement and analysis of the potential environmental impacts of a proposed project.

#### 1.4.1 INDEPENDENT UTILITY

The auxiliary lane on Eastbound State Route 91 and the interchange modifications included in the Project would provide benefits to the traveling public without requiring or being dependent on the provision of other improvements on State Route 91 or other freeways or arterials. These improvements would benefit travelers as they enter/exit the freeway or travel in the general-purpose and high-occupancy vehicle (HOV) lanes. The Project represents a reasonable expenditure even if no additional transportation improvements, and it does not restrict consideration of alternatives for other reasonably foreseeable transportation improvements in the State Route 91 corridor and areas adjacent to the Project limits. The Project would have independent utility because it meets the Project purpose in the absence of other improvements in the State Route 91 corridor.

### 1.4.2 LOGICAL TERMINI

The focus of the Project is to enhance safety conditions, reduce congestion, and improve freeway operations on Eastbound State Route 91. The environmental study limits extend from the southbound I-710 interchange connector to Eastbound State Route 91 to Cherry Avenue (PM R11.8/R13.2). The proposed Project provides logical termini because the postmiles serve as rational endpoints between points of major traffic generation (i.e., westerly SB I-710/Eastbound State Route 91 on-ramp connectors and easterly Eastbound State Route 91/Cherry Avenue Interchange. The western and eastern termini assure a sufficient length of alignment (approximately 1.4 miles) to integrate the proposed Eastbound State Route 91 auxiliary lane and bridge improvements with existing facilities and avoid any abrupt transitions.

## 1.5 **Project Description**

This section describes the proposed action and the Project alternatives developed to meet the purpose and need of the Project, while avoiding or minimizing environmental impacts. Two alternatives are being considered for evaluation as part of this proposed Project. The proposed alternatives include a No Build Alternative (Alternative 1) and one Build Alternative (Alternative 2).

The Project is located in Los Angeles County on Eastbound State Route 91 within a 1.4-mile segment from the southbound I-710 interchange connector to Eastbound State Route 91, to Cherry Avenue. **Figure 3** below provides an illustration of the Project Area, and demonstrates where the Project limits are, and where the Project features would be. The length of the proposed auxiliary lane is 0.86 mile. The Study Area includes Eastbound State Route 91 (Post Miles [PM] R11.8/R13.2) and is located in the City of Long Beach and adjacent to the City of Paramount, California.

State Route 91 is a major east-west transportation route that is used primarily for international, interstate, interregional, and intraregional travel of people and carrying of goods throughout Los Angeles, Orange, Riverside, and San Bernardino counties. State Route 91 is an important highway for goods movement in California, providing access to the Ports of Los Angeles and Long Beach; and serving the largest center for warehousing and transloading in the Los Angeles basin, at the southwest quadrant of State Route 91 and I-710 interchange, in the cities of Carson and Compton. State Route 91 also serves as a key commute route for southern Los Angeles County, Orange County, and Riverside County.

State Route 91 is part of the National Highway System (NHS) and the Freeway and Expressway (F&E) System, is a Terminal Access (TA) route, and has a functional classification of "other Freeway or Expressway." The segment of State Route 91 to the west of I-710 generally has four mixed flow lanes in each direction. The segment to the east of I-710 has five mixed flow lanes Eastbound, four mixed flow lanes westbound, and one high-occupancy vehicle (HOV) lane in each direction. The I-710/State Route 91 interchange area has four mixed flow lanes westbound and three mixed flow lanes eastbound.

The purpose of the Project is to enhance safety conditions, reduce congestion, and improve freeway operations on both the Eastbound State Route 91 mainline and ramps.

### 1.5.1 PROJECT ALTERNATIVES

#### Alternative 1 (No Build Alternative)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Study Area limits. This alternative would maintain the current configuration of the existing freeway, ramps, and local intersections within the Project limits. The Eastbound State Route 91 facility would continue to have five mixed flow lanes and one HOV lane. The No Build alternative would not address the purpose and need of the proposed Project and serves mainly as a baseline to compare with the Build Alternative under NEPA. Under CEQA, existing conditions at the beginning of environmental studies serve as the baseline to compare with the Build Alternative.

#### Alternative 2 (Build Alternative)

The Build Alternative would include the addition of a 0.55 mile auxiliary lane on Eastbound State Route 91 from the Atlantic Avenue on-ramp to the Cherry Avenue off-ramp. **Figure 4** and **Figure 5** below illustrate the Project components.

#### Figure 3: Project Area Map



Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI

Figure 4: Project Components (Sheet 1 of 2)



Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI

#### Figure 5: Project Components (Sheet 2 of 2)



Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI

The proposed alternative would require modifications to the following bridges, which would be widened on the south side to accommodate the proposed auxiliary lane:

- Myrtle Avenue Undercrossing (Bridge No. 53-2121) 1-span widening
- Orange Avenue Undercrossing (Bridge No. 53-2122) 1-span widening
- Walnut Avenue Undercrossing (Bridge No. 53-2127) 1-span widening

To accommodate the proposed auxiliary lane on Eastbound State Route 91 and to abate noise impacts, the Build Alternative would also require reconstruction of the following walls and modification of the following ramps:

- RW No. 642, soundwall on retaining wall along Eastbound Atlantic Avenue on-ramp to Myrtle Avenue Undercrossing Bridge
- RW No. 654, soundwall on retaining wall along Eastbound State Route 91 mainline from Myrtle Avenue Undercrossing Bridge to Orange Avenue Undercrossing Bridge
- RW No. 668, soundwall on retaining wall along Eastbound State Route 91 mainline from Orange Avenue Undercrossing Bridge to Walnut Avenue Undercrossing Bridge
- RW No. 680, soundwall on retaining wall along Eastbound State Route 91 mainline from Walnut Avenue Undercrossing Bridge to Eastbound Cherry Avenue off-ramp
- Eastbound Atlantic Avenue on-ramp
- Eastbound Cherry Avenue off-ramp

The Build Alternative would include extending the auxiliary lane approximately 0.31 mile westerly to the Southbound I-710/Eastbound State Route 91 Connector (westerly extension) and would taper off easterly to the Cherry Avenue Undercrossing (easterly extension). The westerly extension would require:

- Widening on the south side of the Atlantic Avenue Undercrossing (Bridge No. 53-2124), 2span widening
- Restriping and widening of the Southbound I-710/Eastbound State Route 91 Connector from one lane to two lanes east of bridge crossing over the Los Angeles River
- Restriping of the Atlantic Avenue off-ramp to accommodate the widening of the Southbound I-710/Eastbound State Route 91 Connector
- Reconstruction of the RW No. 634, retaining wall along Eastbound State Route 91 from the Los Angeles River to Atlantic Avenue Undercrossing Bridge
- Reconstruction of the RW No. 640, soundwall on retaining wall along Eastbound State Route 91 from Atlantic Avenue to Eastbound Atlantic Avenue on-ramp gore area

The easterly extension includes gradually tapering off the auxiliary lane to end at the Cherry Avenue Undercrossing. The total length of the auxiliary lane would be 0.86 mile.

The Build Alternative would enhance safety conditions, reduce congestion, and improve freeway operations on both the Eastbound State Route 91 mainline and ramps. Mitigation for noise impacts include implementation of soundwalls, which have been incorporated as Project features. Existing soundwalls would be removed and reconstructed within Caltrans right of way, approximately 10 to 15 feet to the south of, and parallel to, the existing soundwalls.

The Build Alternative would include new powered overhead signs and replacement roadway lighting. In addition, the Build Alternative will include Transportation System Management measures to improve operations, such as improved ramp metering, coordinated traffic signals, and intelligent transportation system elements, among others.

This Project contains a number of standardized project design elements which are employed on most, if not all, Caltrans projects and were not developed in response to any specific environmental impact resulting from the proposed Project. These measures are addressed in more detail in the Environmental Consequences sections found in Chapter 2.

### 1.5.2 IDENTIFICATION OF A PREFERRED ALTERNATIVE

A Preferred Alternative was identified after considering all information in the IS/EA as revised, including project purpose and need, environmental and community impacts and avoidance, minimization, and mitigation measures. Identification of a Preferred Alternative was also based on input from the Project Development Team (PDT) members, public stakeholders, and federal, state, and local agencies during the project development process. In addition, consideration was given to all issues raised during the public circulation period. Alternative 1: No Build, would not meet the purpose and need of the project as it would not address the operational deficiencies and safety issue at this location. Alternative 2 would meet the purpose and need of the project by reducing congestion and improving traffic operation at the Eastbound State Route 91 mainline and ramps, and enhancing overall safety conditions. With the incorporation of mitigation measures, the project would have no impact or less than significant impacts under CEQA, and all appropriate avoidance, minimization and mitigation measures will be incorporated into the project. Therefore, Alternative 2: Build Alternative, has been identified as the Preferred Alternative.

# 1.5.3 ALTERNATIVES CONSIDERED BUT ELIMINATED FROM FURTHER DISCUSSION PRIOR TO THE DRAFT INITIAL STUDY/ENVIRONMENTAL ASSESSMENT

#### **PSR-PDS Alternatives Considered**

The Project Study Report-Project Development Support (PSR-PDS) for the State Route 91 between Central Avenue (PM 8.2) and Paramount Boulevard (PM 13.8) Project served as the Project Initiation Document (PID) for this Project. Six build alternatives were developed during this conceptual phase and included as part of the PSR-PDS. When the PSR-PDS was prepared, the I-710 Corridor Improvement Project (a separate project) was undergoing environmental evaluation in the Project Approval/Environmental Document phase. Therefore, each of the build alternatives analyzed in the PSR-PDS included two I-710 scenarios (referred to herein as I-710 Alternative 5C and I-710 Alternative 7) for modifications to local and system interchanges. Three of the alternatives related to I-710 Alternative 7 as a viable alternative and selected I-710 Alternative 5C as the locally preferred alternative. The other three alternatives, which include the I-710 Alternative 5C scenario, are discussed below.

• State Route 91 Alternative 2 with I-710 Alternative 5C: This alternative would add one mixed-flow lane on Eastbound State Route 91 with standard lanes and shoulders, including a 4 foot HOV buffer, and would maintain the existing auxiliary lane. At the Atlantic Avenue Interchange, the Atlantic Avenue on- and off-ramps would be realigned
to match the State Route 91 freeway widening, and Atlantic Avenue would be widened to accommodate a Class III bike route. The Atlantic Avenue interchange would also be converted to a half diamond interchange by eliminating the EB Atlantic Avenue off-ramp. At the Cherry Avenue interchange, the off-ramp would be realigned to match the State Route 91 freeway widening, and Cherry Avenue would be reconfigured to accommodate a Class III bike route. *This alternative has right of way impacts, including 10 full parcel acquisitions. For this reason, this alternative was eliminated from further consideration.* 

- State Route 91 Alternative 3 with I-710 Alternative 5C: This alternative would add one mixed-flow lane on Eastbound State Route 91 with non-standard lanes and shoulders, including a 4 foot HOV buffer, and would maintain the existing auxiliary lane. At the Atlantic Avenue Interchange, the Atlantic Avenue on- and off-ramps would be realigned to match the State Route 91 freeway widening, and Atlantic Avenue would be widened to accommodate a Class III bike route. The Atlantic Avenue interchange would also be converted to a half diamond interchange by eliminating the EB Atlantic Avenue off-ramp. At the Cherry Avenue interchange, the off-ramp would be realigned to match the State Route 91 freeway widening, and Cherry Avenue would be reconfigured to accommodate a Class III bike route. This alternative has right of way impacts, including two full parcel acquisitions. For this reason, this alternative was eliminated from further consideration.
- State Route 91 Alternative 4 with I-710 Alternative 5C: This alternative is similar to State Route 91 Alternative 3 with Alternative 5C, noted above, within the Project limits. Under Alternative 4, a small section of East 67<sup>th</sup> Street, west of Walnut Avenue, would have to be reconstructed to accommodate a wider buffer and shoulders along the freeway. *This alternative has right-of-way impacts, including two full parcel acquisitions.* For this reason, this alternative was eliminated from further consideration.

#### Value Analysis Alternatives Considered

A Value Analysis (VA) for this project was conducted March 2, 2020 to March 5, 2020. The VA included coordination with Caltrans, Metro, and consultants known as the VA Team. The following alternatives from the VA were considered, but eliminated from further discussion by the VA Team:

- Lengthen the Atlantic Avenue on-ramp: This alternative would shift the taper of the eastbound Atlantic on-ramp by 500 feet before Orange Bridge to allow for a longer auxiliary/acceleration lane. Traffic analysis determined that the lengthening of the Atlantic Avenue on-ramp would be necessary to accommodate the forecasted queue. *This alternative, combined with shifting the taper, would result in impacts to the Orange Avenue Undercrossing and the adjacent SCE transmission facility. For this reason, this alternative was eliminated.*
- Eliminate Atlantic Avenue On-Ramp: This alternative would eliminate the Atlantic Avenue on-ramp to reduce weaving maneuvers between the I-710 connector on-ramps and the Cherry Avenue off-ramp. This alternative would increase the traffic demand on the Cherry Avenue on-ramp to the Eastbound State Route 91, and on Cherry Avenue. For this reason, this alternative was eliminated.

#### Design Options Considered

There were various design options that were evaluated and rejected. These included:

- Adding an additional lane starting at the easterly end of the Northbound I-710 to Eastbound State Route 91 Connector. This design option was rejected due to the inadequate available space on the existing bridge crossing the Los Angeles River.
- Extending the proposed auxiliary lane on Eastbound State Route 91 from Atlantic Avenue to Cherry Avenue to the existing Cherry Avenue to Paramount Boulevard Auxiliary Lane. This design option was rejected due to railroad and right of way impacts.

# Transportation System Management and Transportation Demand Management Alternatives

Transportation Systems Management provides cost-effective improvements that increase transportation system performance without the major expense of capital expansion projects. These programs include minor geometric improvements, bicycle and pedestrian improvements, and other measures such as signal synchronization, motorist information, bus signal priority, and freeway ramp metering. Transportation Demand Management provides cost-effective improvements that reduce system demand by eliminating trips or shifting trips out of the peak periods to other, less-congested time periods during the day, thus increasing transportation system performance without implementing travel restrictions. Transportation Demand Management programs and transfers between modes at key locations. Transportation Demand Management programs are devised to change the behavior of travelers. Some Transportation Demand Management approaches are voluntary, and they motivate participants with incentives. Other Transportation Demand Management approaches apply disincentives to drive single-occupancy vehicles, such as fees and constraints.

A Transportation Systems Management/Transportation Demand Management alternative is not considered a viable stand-alone option because it does not fulfill the Project's purpose and need. A Transportation Systems Management/Transportation Demand Management alternative on its own would:

- Provide minimal congestion reduction,
- Provide minimal enhancement of operations and improvement in trip reliability, and
- Not increase mobility significantly because it would have a limited effect on congestion.

Transportation Systems Management and Transportation Demand Management are similar in a number of ways, because they may:

- Lessen the number of trips,
- Lessen peak-hour travel,
- Conserve energy,
- Reduce emissions, and
- Provide more travel alternatives.

Although Transportation Systems Management and Transportation Demand Management measures alone do not satisfy the purpose and need of the Project, the following Transportation Systems Management and Transportation Demand Management measures are beneficial and may be incorporated into the Build Alternative for the Project:

- Improved ramp-metering hardware and software and closed-circuit television systems for viewing ramps and nearby arterials
- Upgraded traffic signals that are interconnected and coordinated with adjacent signals and ramp meters at locations of interchange improvements
- Additional way-finding signs on freeways and arterials
- On- and off-ramps designed to limit impacts to non-motorized travel and preserve access to bike lanes and trails
- Intelligent Transportation Systems elements, including fiber-optic and other communication systems for improved connectivity and remote management; changeable message signs; closed-circuit television coverage of the entire freeway mainline, ramps, and adjacent arterials; video detection systems; and vehicle detection systems for volume, speed, and vehicle classification
- Advanced traffic management system improvements to the hardware and software systems at the Caltrans District 7 Traffic Management Center
- Traveler information management system improvements to enhance dissemination of realtime information on roadway conditions

#### **Reversible Lanes**

To meet the requirements of Assembly Bill (AB) 2542, a reversible lane option was considered. Reversible lanes are dedicated freeway lanes that serve directional peak hour period demands. Reversible lanes are meant to use the existing center lanes of the freeway rather than increasing capacity through construction of additional lanes. Reversible lanes are not a viable alternative for the Project because both directions of State Route 91 have high traffic volumes in both the A.M. and P.M. peak periods and will also not be able to meet the required minimum length of 2 miles of reversible lanes.

# **1.6 Permits and Approvals Needed**

The following permits, licenses, agreements, and certifications (PLACs) are required for Project construction:

| Agency                                 | PLAC                                                                                                                                                                                                                                                                         | Status                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Federal Highway<br>Administration      | Air Quality Conformity Approval Letter                                                                                                                                                                                                                                       | The Air Quality Conformity report was submitted<br>to the Federal Highway Administration on May 4,<br>2021 after receipt of public comments on the<br>Initial Study/Environmental Assessment (IS/EA).<br>On May 24, 2021, Federal Highway<br>Administration determined that the project-level<br>transportation conformity requirements of 40<br>CFR Part 93 have been met.                                                                           |
| State Water Resources<br>Control Board | National Pollutant Discharge<br>Elimination System Construction<br>General Permit Order No. 2009-0009-<br>DWQ (as amended by 2010-0014-<br>DWQ and 2012- 0006-DWQ)                                                                                                           | The permits, including the Notice of Intent (NOI),<br>will be submitted to the State Water Resources<br>Control Board prior to any Project construction.                                                                                                                                                                                                                                                                                              |
| State Water Resources<br>Control Board | Caltrans National Pollutant Discharge<br>Elimination System Permit Order No.<br>2012-0011-DWQ, (as amended by<br>Order WQ 2014- 0006-EXEC, Order<br>WQ 2014- 0077-DWQ, and Order<br>WQ 2015- 0036-EXEC, National<br>Pollutant Discharge Elimination<br>System No. CAS000003) | The Permit Registration Documents, including<br>the NOI, will be submitted to the State Water<br>Resources Control Board prior to any Project<br>construction.                                                                                                                                                                                                                                                                                        |
| City of Long Beach                     | Construction encroachment permit,<br>Access Agreement, and Maintenance<br>Agreement                                                                                                                                                                                          | The construction encroachment permit and<br>access agreement will be obtained at the<br>beginning of the construction phase. During the<br>Final Design phase, the maintenance agreement<br>for landscaping may have to be revised/updated<br>to reflect changes to the Project with respect to<br>maintenance of the landscape features, including<br>planting, the irrigation system, and existing and<br>new Gross Solids Removal Devices (GSRDs). |

#### TOPICS CONSIDERED BUT DETERMINED NOT TO BE RELEVANT

As part of the environmental analysis carried out for the Project, the following environmental issues were considered but no adverse impacts were identified. As a result, there is no further discussion about these issues in this document.

#### Land Use

The Build Alternative is not expected to result in changes to land uses in the Project Study Area, which includes a half-mile buffer around the Project Area. The Build Alternative was evaluated for consistency with transportation plans and programs (e.g., Southern California Association of Governments' 2020 Regional Transportation Plan and 2019 Federal Transportation Improvement Program, regional growth plans, habitat conservation plans or similar regional conservation plans, and general and community plans for Los Angeles County and the City of Long Beach). The Build Alternative would be consistent with the applicable federal, state, regional, and local plans and programs adopted for the area, including goals and polices for improving traffic and circulation. For more information regarding land use analysis, please refer to the Community Impact Assessment (August 2020) prepared for the Project.

#### **Coastal Zone**

The Project Area is over seven miles north of the Pacific coast, and not within the coastal zone.

#### Wild and Scenic Rivers

No Wild and Scenic Rivers are in proximity to the Project Area.

#### **Parks and Recreational Facilities**

The Build Alternative would not affect parks or recreational facilities. A proposed greenbelt, the Hamilton Loop (also known as the State Route 91 Embankment Greenbelt), is planned in Caltrans right of way within the Project Area. Coordination is being conducted with the City of Long Beach so that the Project will not preclude the proposed greenbelt. For more information regarding land use analysis, please refer to the Community Impact Assessment (August 2020) prepared for the Project

#### **Farmlands and Timberlands**

The Project is in a heavily developed urban area surrounded by industrial and commercial properties, and does not include agricultural land, forest land, or timberland.

#### Growth

No new streets, highways, ramps, etc. will be constructed as part of the Project. The Project does not create new or alternate routes to/on the freeway or to surrounding businesses, and accessibility to surrounding residences and business would remain the same. Traffic would only be affected on the mainline for existing operational deficiencies, and the Project does not create new or alternate routes for commuters, or direct new traffic to local streets or freeways. There

would be no addition of utility lines or other utilities, so the Project does not allow for new development; the Project would not alter existing land use or allow for new land uses by its construction; and community facilities would not be affected, so it would not attract new users to frequent or live in the area. Therefore, no new elements would be introduced to the environment that would facilitate growth. Lastly, because there is little developable land, the growth pressure is low. For more information regarding land use analysis, please refer to the Community Impact Assessment (August 2020) prepared for the Project

#### **Community Character and Cohesion**

No residences, businesses, community facilities, or services would be displaced, and the population characteristics and distribution within the Project Study Area would not change as a result of the Build Alternative. For more information regarding land use analysis, please refer to the Community Impact Assessment (August 2020) prepared for the Project

#### **Relocations and Real Property Acquisitions**

The Build Alternative would not require any right of way acquisitions, temporary construction easements, or permanent easements.

#### Floodplains

There will be no effects to the 100-year floodplain because the Project is not located within a 100-year base floodplain.

#### **Threatened and Endangered Species**

According to the Natural Environment Study (Minimal Impacts) prepared for the Project, the Biological Study Area does not contain suitable habitat for any threatened or endangered species or their designated critical habitat. The U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife have regulatory responsibility for the protection of special-status plant and wildlife species. The official species list obtained from the USFWS on January 21, 2019, and updated on October 10, 2019, February 24, 2020, and December 3, 2020, indicated that several federally and/or state-listed species have the potential to be in the Biological Study Area. However, none of the species were observed during field surveys and there is no suitable habitat for these species in the Biological Study Area. Therefore, the Project would have no effect on USFWS federally listed species or their critical habitat. Therefore, consultation with the USFWS under Section 7 of the ESA is not required. The National Oceanic and Atmospheric Administration (NOAA) Fisheries Service has regulatory responsibility for the protection of endangered and threatened marine species. The official species list obtained from NOAA Fisheries on January 1, 2019, and updated on December 3, 2020, indicated that one federally and/or state-listed species has the potential to be in the Biological Study Area. However, this species was not observed during field surveys and there is no suitable habitat for this species in the Biological Study Area, including Essential Fish Habitat (EFH). Therefore, the Project would have no effect on National Marine Fisheries Service (NMFS) federally listed species and consultation with the NMFS under Section 7 of the ESA is not required.

#### Wetlands and Other Waters

The Los Angeles River is the only waterway within the Biological Study Area. It flows north to south under the eastern most portion of the Project Area. The Los Angeles River is a Traditional Navigable Water that is tributary to the Pacific Ocean. All construction activities for the Project would be outside of the Los Angeles River and restricted to the deck of the freeway. There is potential for construction debris and materials to fall into the Los Angeles River, resulting in water quality impacts. However, the potential for impacts would be low because the type of work completed near the Los Angeles River would be limited to restriping and potentially installing roadway signage (no overhead signs would be implemented in this area). In addition, the Project would follow Caltrans Standard Specifications for Water Pollution Control and the National Pollutant Discharge Elimination System General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) (Order No. 2009-0009-DWQ, NPDES No. CAS000002 as amended by Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ) to reduce the potential for chemical spills or contaminant releases into the Los Angeles River, including any non-stormwater discharge (see Section 2.2.1 for more information regarding water quality). Therefore, the Project would have no direct or indirect impacts on potential jurisdictional features, and coordination with the United States Army Corps of Engineers, Regional Water Quality Control Board, or California Department of Fish and Wildlife is not required. Therefore, the Project would not result in impacts on wetlands and other waters and no further analysis is required.

#### **Natural Communities**

Based on California Natural Diversity Database (CNDDB) database research, four specialstatus natural communities have the potential to be in the Biological Study Area, including California Walnut Woodland, Southern Coastal Salt Marsh, Southern Sycamore Alder Riparian Woodland, and Walnut Forest communities. However, no special-status natural communities were identified during the biological survey, and no special-status communities are expected to be in the Biological Study Area. Therefore, the Project would not result in impacts on natural communities and no further analysis is required.

#### Section 4(f)

There are no historic sites, parks and recreational resources, or wildlife or waterfowl refuges, which meet the definition of a Section 4(f) resource, within the Project vicinity. Therefore, the Project is not subject to the provisions of Section 4(f) of the Department of Transportation Act of 1966.

#### Wildfire

According to the California Department of Forestry and Fire Protection, the Project is not located in or near a state responsibility area or land classified as very high fire hazard severity zone. Therefore, the Project does not have the potential to exacerbate wildfire risks.

#### **CUMULATIVE IMPACTS**

Cumulative impacts are those that result from past, present, and reasonably foreseeable future actions, combined with the potential impacts of the proposed project. A cumulative effect assessment looks at the collective impacts posed by individual land use plans and projects.

Cumulative impacts can result from individually minor but collectively substantial impacts taking place over a period of time.

Cumulative impacts to resources in the Project Area may result from residential, commercial, industrial, and highway development, as well as from agricultural development and the conversion to more intensive agricultural cultivation. These land use activities can degrade habitat and species diversity through consequences such as displacement and fragmentation of habitats and populations, alteration of hydrology, contamination, erosion, sedimentation, disruption of migration corridors, changes in water quality, and introduction or promotion of predators. They can also contribute to potential community impacts identified for the Project, such as changes in community character, traffic patterns, housing availability, and employment.

The California Environmental Quality Act (CEQA) Guidelines Section 15130 describes when a cumulative impact analysis is necessary and what elements are necessary for an adequate discussion of cumulative impacts. The definition of cumulative impacts under CEQA can be found in Section 15355 of the CEQA Guidelines. A definition of cumulative impacts under the National Environmental Policy Act (NEPA) can be found in 40 Code of Federal Regulations (CFR) Section 1508.7.

As discussed in individual sections below, the Project Area is located within Caltrans or City right of way in an area that is either occupied by, or directly adjacent to, existing transportation facilities. The Project Study Area, which includes a half-mile buffer around the Project Area, is primarily in the City of Long Beach, but also includes the southern portion of the City of Paramount and the eastern portion of the City of Compton. The Project Study Area is located in a highly developed urban area with few developable vacant lands. Within the Project Study Area, one proposed commercial development project is under construction; one proposed greenbelt project is under preliminary design; one transportation project and one safety project are in the Project Approval and Environmental Document phase, and one safety project is in the Plans, Specifications, and Estimates phase. The projects are listed in **Table 6** and shown in **Figure 6**. In addition, there is one transportation improvement project that is outside of the Project Study Area, but was included in the cumulative impacts analysis as a related project (see **Table 6** and **Figure 6**).

Cumulative impacts are discussed in the "Environmental Consequences" section for each resource. Construction of the proposed Project is anticipated to be complete by 2024. Based on currently available information, the anticipated construction timing for the current and future transportation and development projects listed in **Table 6** would not overlap with construction timing of the Project. Therefore, cumulative impacts associated with temporary construction activities are not anticipated, such as short-term increases in noise levels and air pollutant emissions from the use of construction equipment, short-term degradation of water quality from construction activities, temporary disruptions related to access and circulation due to lane or road closures, and visual effects from construction activities and staging. Because short-term, temporary cumulative impacts are not anticipated, the cumulative impacts discussion for each resource topic area only focuses on long-term and permanent impacts and is discussed in each respective "Environmental Consequences" section.

| Project Name                                                                                              | Address                                                                                                                                                                                                                        | Use                                                                                                                                                                                                                                               | Status                                                                                               | Environmental Factors<br>with Cumulative<br>Effects                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Uptown<br>Commons                                                                                         | 6600-6630 Atlantic<br>Avenue and 609-695<br>Artesia Boulevard                                                                                                                                                                  | Commercial<br>Development: Three<br>buildings that would<br>make room for five<br>restaurants and one<br>drive-thru                                                                                                                               | Under<br>construction                                                                                | Environmental document<br>not available                                                                                                                                                                                                                                                                      |
| Hamilton Loop<br>(also known as<br>the State Route<br>91 Embankment<br>Greenbelt)                         | Caltrans Right of Way<br>Along Portions of the<br>North and South and<br>Embankments of State<br>Route 91 Adjacent to<br>67th Street, Penfold<br>Street, and Eleanor<br>Street between Atlantic<br>Avenue and Cherry<br>Avenue | Greenbelt: A 2-mile-<br>long walking loop<br>with seating areas<br>and outdoor fitness<br>equipment                                                                                                                                               | Preliminary<br>Design                                                                                | Environmental document<br>not available                                                                                                                                                                                                                                                                      |
| Interstate 710 (I-<br>710) Corridor<br>Project                                                            | Along approximately 19<br>miles of I-710 from<br>State Route 60 (SR-60)<br>to Ocean Boulevard in<br>the City of Long Beach                                                                                                     | Transportation<br>Project: Add general<br>purpose lane<br>capacity to I-710 as<br>well as geometric<br>design<br>improvements                                                                                                                     | Project<br>Approval and<br>Environmental<br>Document;<br>Construction<br>anticipated<br>2025 to 2033 | Land Use, Community<br>Character and Cohesion,<br>Traffic, Visual, Air<br>Quality, Noise, Estuarine<br>and Riparian/Riverine<br>Habitats and species<br>associated with this<br>habitat, Plant Species<br>(southern tarplant),<br>Animal Species (green<br>turtle and California least<br>tern), Relocations |
| State Route 91<br>Central Avenue<br>to Acacia Court                                                       | Along State Route 91<br>from Acacia Court to<br>Central Avenue                                                                                                                                                                 | Transportation<br>Project: Addition of<br>collector-distributor<br>road, mainline and<br>ramp improvements,<br>and signage<br>upgrades                                                                                                            | Project<br>Approval and<br>Environmental<br>Document;<br>Construction<br>anticipated<br>2024 to 2025 | Water Quality, Air<br>Quality, Transportation,<br>Paleontological                                                                                                                                                                                                                                            |
| Overhead Signs<br>and Sign<br>Structures,<br>Landscape<br>Rehabilitation<br>and Enhanced<br>Worker Safety | Along State Route 91<br>between Post Miles<br>R6.02 and 20.74 in the<br>Cities of Compton,<br>Anaheim, Corona, and<br>Riverside.                                                                                               | Safety Project:<br>Upgrade existing<br>roadway and<br>overhead signs,<br>upgrade current<br>highway plantings<br>and irrigation<br>systems, improve<br>access and features<br>to reduce repetitive<br>maintenance and<br>enhance worker<br>safety | Project<br>Approval and<br>Environmental<br>Document;<br>Construction<br>anticipated<br>2024 to 2028 | No cumulative effects identified.                                                                                                                                                                                                                                                                            |
| Upgrade Existing<br>Traffic                                                                               | Along State Route 91 from Route 110 to the                                                                                                                                                                                     | Safety Project:<br>Upgrade existing                                                                                                                                                                                                               | Plans,<br>Specifications,                                                                            | No cumulative effects identified.                                                                                                                                                                                                                                                                            |

### **Table 6: Current and Future Projects**

| Project Name                          | Address                                                                                                                                                                                                                                                                | Use                                                             | Status                                                                       | Environmental Factors<br>with Cumulative<br>Effects |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|
| Management<br>Communication<br>System | Los Angeles/Orange<br>County Line and at the<br>Los Angeles Regional<br>Transportation<br>Management Center on<br>Route 2, the Norwalk<br>communications hub<br>building on Route 5,<br>and the Los Angeles<br>Airport communications<br>hub building on Route<br>405. | fiber optic<br>communication<br>system at multiple<br>locations | and Estimates;<br>Construction<br>anticipated<br>August 2022 to<br>July 2024 |                                                     |

Source: The Grunion, 2019; City of Long Beach, 2020; California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2017; California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2020; California Department of Transportation 2018a; California Department of Transportation 2018b



#### Figure 6: Current and Future Projects

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### 2.1 Human Environment

### 2.1.1 ENVIRONMENTAL JUSTICE

#### **Regulatory Setting**

All projects involving a federal action (funding, permit, or land) must comply with Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, signed by President William J. Clinton on February 11, 1994. This Executive Order directs federal agencies to take the appropriate and necessary steps to identify and address disproportionately high and adverse effects of federal projects on the health or environment of minority and low-income populations to the greatest extent practicable and permitted by law. Low income is defined based on the Department of Health and Human Services poverty guidelines. For 2017, this was \$24,600 for a family of four (U.S. Department of Health & Human Services, 2017).

All considerations under Title VI of the Civil Rights Act of 1964, and related statutes, have also been included in this project. Caltrans' commitment to upholding the mandates of Title VI is demonstrated by its Title VI Policy Statement, signed by the Director, which can be found in Appendix B of this document.

#### **Affected Environment**

Minority and low-income populations ("environmental justice populations") are identified by analyzing the demographic and economic characteristics of the affected area within the Project Study Area and comparing those to the characteristics of the larger community. For purposes of this analysis, data from the U.S. Census Bureau American Community Survey 2013-2017 was used.

Census block group data was used to identify environmental justice populations within the Project Study Area. Census block groups are subdivisions of census tracts and are the smallest geographic units that the U.S. Census Bureau collects data on. Census block groups generally have a population size of between 600 and 3,000 people. Potential impacts that could result from proposed construction and project operations were considered when determining the extent of the Project Study Area. There are eight census block groups within five census tracts that fall within the Project Study Area (see **Figure 7**).

#### **MINORITY POPULATIONS**

U.S. DOT Order 5610.2(a) defines a minority as a person who is a member of the following population groups: Black, Hispanic or Latino, Asian American, American Indian and Alaskan Native, and Native Hawaiian and Other Pacific Islander. The U.S. Census Bureau data used for this report lists the following race categories: White, Black/African American, American Indian/Alaska Native, Asian, Native Hawaiian/Other Pacific Islander, Some Other Race (i.e., any race not included in the aforementioned race categories), and Two or More Races. According to the U.S. Census Bureau, Hispanic or Latino is an ethnicity, not a race. As such, individuals who

self-identify as Hispanic or Latino in the U.S. Census also may self-identify as a member of any of the U.S. Census Bureau's race categories.

U.S. DOT Order 5610.2(a) defines "minority population" to mean "any readily identifiable groups of minority persons who live in geographic proximity, and if circumstances warrant, geographically dispersed [persons] who will be similarly affected by a proposed DOT program, policy or activity." Minority populations were identified where either:

- the minority population of the affected area exceeds 50 percent, or
- the minority population percentage of the affected area is meaningfully greater than the minority population percentage in the general population or other appropriate unit of geographic analysis" (Council on Environmental Quality 1997).

For purposes of this analysis, Los Angeles County was the community of comparison, and meaningfully greater was conservatively defined as any census block group within the Project Study Area with a minority population that is 5 percent or greater than that of Los Angeles County.

Environmental Justice populations are higher than average concentrations of traditionally underserved groups when compared to the area surrounding the Project Area or the city or County as a whole. **Table 7** compares the demographics of Los Angeles County and the census block groups within the Project Study Area. According to the 2013-2017 American Community Survey 5-year Estimates data, Los Angeles County had a 22.7 percent minority population by race, and a 48 percent Hispanic or Latino population, for a total minority population of 71 percent (U.S. Census Bureau, 2017).

As shown in **Table 7**, all census block groups in the Project Study Area have Environmental Justice populations because they have a meaningfully greater concentration of minority populations when compared to Los Angeles County. The City of Long Beach census data from the U.S. Census Bureau is also provided but was not used to determine Environmental Justice populations.

The percentage of population who self-identify as a racial class classified as a minority population within the census block groups range from 7.7 percent to 42.3 percent. Seven of the eight census block groups in the Project Study Area have a meaningfully greater racial minority population than that of Los Angeles County. Additionally, more than half of the census block groups in the Project Study Area (five of eight) had a Hispanic or Latino population greater than 50 percent of the total population (see **Table 7**). All five of these census block groups also have a Hispanic or Latino population that was meaningfully greater than that of Los Angeles County. The percentage of population who self-identify as Hispanic or Latino within the census block groups range from 39.1 percent to 82.4 percent.

When racial minority groups are combined with the Hispanic or Latino ethnic minority population, the total minority population of Los Angeles County is 71 percent, and 69 percent in the City of Long Beach (U.S. Census Bureau, 2017). Within the census block groups in the Project Study Area, the percentage of total minority populations ranges between 76 and 97 percent.



#### Figure 7: Census Block Groups

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#### Table 7: Demographics by Census Block Groups

| Ethnicity and Race                                                                 | Los<br>Angeles<br>County | City of<br>Long<br>Beach | Census<br>Tract<br>5702.02,<br>Block<br>Group 1 | Census<br>Tract<br>5702.02,<br>Block<br>Group 2 | Census<br>Tract<br>5702.02,<br>Block<br>Group 3 | Census<br>Tract<br>5702.02,<br>Block<br>Group 4 | Census<br>Tract<br>5702.03,<br>Block<br>Group 2 | Census<br>Tract<br>5703.01,<br>Block<br>Group 2 | Census<br>Tract<br>5704.02,<br>Block<br>Group 1 | Census<br>Tract<br>5704.04,<br>Block<br>Group 1 |
|------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Total population                                                                   | 10,105,722               | 470,489                  | 952                                             | 1,256                                           | 1,008                                           | 768                                             | 1,289                                           | 1,053                                           | 1,561                                           | 1,515                                           |
| White                                                                              | 2,676,982                | 129,957                  | 78                                              | 48                                              | 243                                             | 33                                              | 25                                              | 88                                              | 55                                              | 35                                              |
| (not Hispanic or Latino)                                                           | (26.5%)                  | (27.6%)                  | (8.2%)                                          | (3.8%)                                          | (24.1%)                                         | (4.3%)                                          | (1.9%)                                          | (8.4%)                                          | (3.5%)                                          | (2.3%)                                          |
| Black or African<br>American alone<br>(not Hispanic or Latino)                     | 799,579<br>(7.9%)        | 58,260<br>(12.4%)        | 163<br>(17.1%)                                  | 383<br>(30.5%)                                  | 226<br>(22.4%)                                  | 123<br>(16.0%)                                  | 545<br>(42.3%)                                  | 84<br>(8.0%)                                    | 481<br>(30.8%)                                  | 469<br>(31.0%)                                  |
| American Indian and<br>Alaska Native alone<br>(not Hispanic or Latino)             | 19,915<br>(0.2%)         | 1,534<br>(0.3%)          | 10<br>(1.1%)                                    | 0<br>(0%)                                       | 0<br>(0%)                                       | 19<br>(2.5%)                                    | 0<br>(0%)                                       | 0<br>(0%)                                       | 0<br>(0%)                                       | 0<br>(0%)                                       |
| Asian alone                                                                        | 1,442,577                | 61,269                   | 141                                             | 111                                             | 145                                             | 130                                             | 0                                               | 13                                              | 114                                             | 141                                             |
| (not Hispanic or Latino)                                                           | (14.3%)                  | (13.0%)                  | (14.8%)                                         | (8.8%)                                          | (14.4%)                                         | (16.9%)                                         | (0%)                                            | (1.2%)                                          | (7.3%)                                          | (9.3%)                                          |
| Native Hawaiian and<br>Other Pacific Islander<br>alone<br>(not Hispanic or Latino) | 24,950<br>(0.2%)         | 4,050<br>(0.9%)          | 0<br>(0%)                                       | 0<br>(0%)                                       | 0<br>(0%)                                       | 0<br>(0%)                                       | 0<br>(0%)                                       | 0<br>(0%)                                       | 120<br>(7.7%)                                   | 129<br>(8.5%)                                   |
| Some Other Race                                                                    | 28,960                   | 836                      | 0                                               | 0                                               | 0                                               | 0                                               | 0                                               | 0                                               | 0                                               | 0                                               |
| (not Hispanic or Latino)                                                           | (0.3%)                   | (0.2%)                   | (0%)                                            | (0%)                                            | (0%)                                            | (0%)                                            | (0%)                                            | (0%)                                            | (0%)                                            | (0%)                                            |
| Two or More Races                                                                  | 219,180                  | 13,060                   | 0                                               | 0                                               | 0                                               | 26                                              | 29                                              | 0                                               | 34                                              | 11                                              |
| (not Hispanic or Latino)                                                           | (2.2%)                   | (2.8%)                   | (0%)                                            | (0%)                                            | (0%)                                            | (3.4%)                                          | (2.2%)                                          | (0%)                                            | (2.2%)                                          | (0.7%)                                          |
| Hispanic or Latino                                                                 | 4,893,579                | 201,523                  | 560                                             | 714                                             | 394                                             | 437                                             | 690                                             | 868                                             | 757                                             | 730                                             |
|                                                                                    | (48.4%)                  | (42.8%)                  | (58.8%)                                         | (56.8%)                                         | (39.1%)                                         | (56.9%)                                         | (53.5%)                                         | (82.4%)                                         | (48.5%)                                         | (48.2%)                                         |
| Total Minority                                                                     | 7,180,600                | 326,636                  | 874                                             | 1,208                                           | 765                                             | 709                                             | 1,235                                           | 965                                             | 1,472                                           | 1,469                                           |
| Population <sup>a</sup>                                                            | (71%)                    | (69%)                    | (92%)                                           | (96%)                                           | (76%)                                           | (92%)                                           | (96%)                                           | (92%)                                           | (94%)                                           | (97%)                                           |

Source: Table B03002, U.S. Census Bureau, 2018

Notes: % = percent

<sup>a</sup> = Total Minority Population includes refers to racial minorities who self-identify as members of the following population groups: American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American; and ethnic minorities who self-identify as Hispanic or Latino. Percent minority was calculated by adding the number of individuals who self identify as Not Hispanic or Latino and American Indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American indian or Alaska Native, Asian, Native Hawaiian or Pacific Islander, or Black or African American with the number of individuals that self-identify as Hispanic or Latino in the 2013-2017 American Community Survey (5 Year Estimates).

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#### LOW INCOME POPULATIONS

U.S. DOT Order 5610.2(a) defines low income as "any individual whose median household income is at or below the U.S. Department of Health and Human Services poverty guidelines." U.S. DOT Order 5610.2(a) defines a "low income population" as "any readily identifiable group of low-income persons who live in geographic proximity, and, if circumstances warrant, geographically dispersed/transient persons (e.g., migrant workers or Native Americans) who would be similarly affected by a proposed U.S. DOT program, policy, or activity."

**Table 8** includes the U.S. Department of Health and Human Services' 2017 Poverty Guidelines for the 48 Contiguous States and the District of Columbia. The poverty guidelines for 2017 identify the poverty level for a family or household of four as having an income of \$24,600 or less. A household includes all persons occupying a housing unit. This poverty guideline provides a national measurement of income; it has not been adjusted for the higher cost of living in Los Angeles County or California. In addition, federal and state low-income programs may have income eligibility requirements that are much greater than that of the poverty guidelines.

| Persons in<br>Family/Household | Poverty Guideline |
|--------------------------------|-------------------|
| 1                              | \$12,060          |
| 2                              | \$16,240          |
| 3                              | \$20,420          |
| 4                              | \$24,600          |
| 5                              | \$28,780          |
| 6                              | \$32,960          |
| 7                              | \$37,140          |
| 8                              | \$41,320          |

| Table 8: 2017 Poverty Guidelines for the 48 Contigu | ous States and the District of |
|-----------------------------------------------------|--------------------------------|
| Columbia                                            |                                |

Source: 82 Federal Register 8831-8832, January 26, 2017 Notes: % = percent

As shown in **Table 9**, the median household income from 2013-2017 is \$61,015 in Los Angeles County, and \$58,314 in the City of Long Beach. In the Project Study Area, the median household income ranges from \$24,891 to \$68,105, which is higher than the U.S. Department of Health and Human Services 2017 Poverty Guidelines of \$24,600. However, the median household income of \$24,891 in Census Tract 5703.01, Block Group 2, is only slightly higher than the poverty guidelines. None of the block groups within the study area have a median household income below the Department of Health and Human Services 2017 Poverty Guidelines.

# Table 9: Median Household Income in the Past 12 Months (in 2017 inflation-adjusted dollars)

| Study Area         | Median Household Income |
|--------------------|-------------------------|
| Los Angeles County | \$61,015                |
| City of Long Beach | \$58,314                |

| Census Tract 5702.2, Block Group 1  | \$46,369 |
|-------------------------------------|----------|
| Census Tract 5702.2, Block Group 2  | \$68,105 |
| Census Tract 5702.2, Block Group 3  | \$46,607 |
| Census Tract 5702.2, Block Group 4  | \$66,563 |
| Census Tract 5702.03, Block Group 2 | \$41,063 |
| Census Tract 5703.01, Block Group 2 | \$24,891 |
| Census Tract 5704.02, Block Group 1 | \$48,713 |
| Census Tract 5704.04, Block Group 1 | \$49,625 |
|                                     |          |

Source: U.S. Census Bureau, 2018

In some instances, it may be appropriate for agencies to select a threshold for identifying lowincome populations that exceeds the poverty level (Federal Interagency Working group on Environmental Justice and NEPA Committee 2016). Given the higher standard of living in Los Angeles County, the California Department of Housing and Community Development's 2017 State Income Limits for Los Angeles County was used to identify low income populations for purposes of this analysis (**Table 10**).

The 2017 State Income Limits are used to determine eligibility for designated programs, including state and local affordable housing programs, subject to program requirements and additional factors. The very low limit typically reflects 50 percent of the median family income; however, it may be adjusted for an area or county to account for conditions that warrant special considerations. The very low-income limit is also used as the basis to calculate income limits for all of the other income categories (California Department of Housing and Community Development, 2017). According to the 2017 State Income Limits, the very low income limit for a household of four in Los Angeles County was \$45,050. This limit was used to identify low-income populations for purposes of this analysis. There are two census block groups within the Project Study Area that would qualify as low-income populations using this threshold (see **Table 10**, Census Tract 5702.03, Block Group 2 and Census Tract 5703.01, Block Group 2).

| Persons in<br>Family/Household | Extremely<br>Low | Very<br>Low | Low      | Median   | Moderate  |
|--------------------------------|------------------|-------------|----------|----------|-----------|
| 1                              | \$18,950         | \$31,550    | \$50,500 | \$45,350 | \$54,450  |
| 2                              | \$21,650         | \$36,050    | \$57,700 | \$51,850 | \$62,200  |
| 3                              | \$24,350         | \$40,550    | \$64,900 | \$58,300 | \$70,000  |
| 4                              | \$27,050         | \$45,050    | \$72,100 | \$64,800 | \$77,750  |
| 5                              | \$29,250         | \$48,700    | \$77,900 | \$70,000 | \$83,950  |
| 6                              | \$32,960         | \$52,300    | \$83,650 | \$75,150 | \$90,200  |
| 7                              | \$37,140         | \$55,900    | \$89,450 | \$80,350 | \$96,400  |
| 8                              | \$41,320         | \$59,500    | \$95,200 | \$85,550 | \$102,650 |

Table 10: 2017 State Income Limits for Los Angeles County

Source: (California Department of Housing and Community Development, 2017) Notes: The California Department of Housing and Community Development uses the U.S. Department of Housing and Urban Development's calculations for Section 8 Income Limits to calculate the 2017 State Income Limits. The U.S. Department of Housing and Urban Development data is based on the 2014 American Community Survey data, adjusted to account for anticipated growth.

#### **Environmental Consequences**

#### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on minority or low-income populations.

#### ALTERNATIVE 2 (BUILD ALTERNATIVE)

Federal Highway Administration Environmental Justice Order 6640.23A defines a disproportionately high and adverse effect on environmental justice populations as an adverse effect that either:

- is predominately borne by a minority population and/or a low-income population; or
- will be suffered by the minority population and/or low-income population and is appreciably more severe or greater in magnitude than the adverse effect that would be suffered by the nonminority population and/or non-low-income population.

An adverse effect is defined as "the totality of significant individual or cumulative human health or environmental effects" (Federal Highway Administration Order 6640.23A). When determining whether an action would disproportionately affect an environmental justice population, mitigation and enhancement measures, and potential offsetting benefits to the affected minority or low-income populations are considered.

The Project area is primarily occupied by residential neighborhoods. All census block groups within the Project Study Area are defined as a minority population for purposes of this analysis, and two census block groups are defined as a low-income population. As such, there are environmental justice populations distributed throughout the Project Study Area.

#### **Temporary Impacts**

Construction of the Build Alternative could result in short-term effects on access and circulation from freeway mainline and ramp closures, local street closures, and detours; aesthetics from construction staging and equipment; and short-term noise and air quality from excavation, grading, hauling, and other temporary construction activities. Construction of the Project would last a total of approximately two years for the entire project and would be conducted in three stages to minimize the exposure time to adjacent residents in any one location.

**Traffic Impacts:** As described in Section 2.1.3 Traffic and Transportation, construction activities associated with the Build Alternative would temporarily affect residents and business throughout the entire project area, as well as all users of the Eastbound State Route 91 mainline within the Project Area. Those impacts include temporary disruptions of local traffic patterns during overnight Eastbound State Route 91 mainline and ramp closures, and local street closures during short-term periods.

Construction of the Build Alternative could result in reduced access, and increased traffic congestion from temporary construction traffic and staging, freeway mainline and ramp closures on Eastbound State Route 91, and local street closures during short-term periods. All users of Eastbound State Route 91 would be affected during construction. However, a Traffic Management Plan would be implemented under **PF-COM-2** to identify alternate routes, detours, and access points for motorists and a Construction Staging Plan would be developed under **PF-COM-3** to provide continuous, uninterrupted access to State Route 91 and the local interchanges for the duration of construction. The Construction Staging Plan would also detail efforts to modify construction staging to expedite construction and minimize exposure time to adjacent residents.

Lane and road closures would be scheduled to minimize or avoid affecting local communities to the extent feasible, and construction staging would be designed to provide continuous, uninterrupted access to State Route 91 and the local interchanges throughout the duration of construction.

Though temporary local street closures could also affect bicycle and pedestrian access from construction traffic and staging within the Project Area, the Construction Staging Plan under **PF-COM-3** would minimize hazards on the roadways for bicyclists and pedestrians, and may include temporary detour routes, wayfinding and warning signage, barriers, and protective fencing. One bus stop, located at Orange Avenue and 67th Street, could be temporarily affected due to local street closures and the bus stop may need to be temporarily relocated during construction. However, the bus route would continue to operate during construction and under **PF-TR-1**, Metro would coordinate with the affected public transportation agencies to provide rerouting information to the public in advance of any service disruptions.

Existing access to adjacent residences and businesses would return to existing conditions following construction.

Additionally, under **PF-COM-2**, a Public Awareness Campaign would be included in the Traffic Management Plan and would detail procedures for notifying the public of road closures, noise, dust, and other construction-related activities and would include a telephone hotline for the public to report concerns, with an option for telephone interpreters available upon request. In addition, the Public Awareness Campaign would encourage motorists, pedestrians, and bicyclists to take alternate routes or travel outside road closure hours. Following construction, uninterrupted access along Eastbound State Route 91, access to adjacent residences and businesses via local streets, and pedestrian and bicycle access would return to existing access. Additionally, the bus stop located at Orange Avenue and 67th Street would resume service back from its original location. During the final design phase, Caltrans and Metro will consider and incorporate measures that support equity, environmental justice and community values by minimizing construction impacts to those who may be directly impacted (**PF-COM-4**).

**Air Quality Impacts:** As described in the Air Quality Report (November 2020) prepared for this Project, the Project did not qualify as a project of air quality concern (POAQC) for respirable particulate matter ( $PM_{10}$ ) and fine particulate matter ( $PM_{2.5}$ ) as determined by the FHWA and U.S. Environmental Protection Agency (U.S. EPA) because it does not meet the definition of a POAQC as defined in U.S. EPA's Transportation Conformity Guidance (see the Project-Level Conformity subsection in Section 2.2.5 Air Quality for more details). Construction activities could

lead to the short-term degradation of air quality from the release of particulate emissions (airborne dust) generated by excavation, grading, hauling, and other activities related to construction. These emissions would be temporary and limited to the immediate area surrounding the construction site and during construction, the Project would comply with Caltrans' Standard Specifications, which are a required part of construction contracts and would reduce air quality impacts resulting from construction activities. Caltrans Standard Specification, Section 14-9, requires the contractor to comply with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations. Project features **PF-AQ-1** through **PF-AQ-14**, described in Section 2.2.5 Air Quality, would be implemented to minimize the Project's temporary air quality impacts, and include measures a contractor would be required to comply with under Section 14-9. Two project features are designed to ensure that PM emissions are reduced in the Project Area; dust and mud deposited on payed, public roads due to construction activity would be promptly and regularly removed to reduce PM emissions (PF-AQ-11), and mulch would be installed, or other vegetation planted, as soon as practicable after grading to reduce windblown PM in the area (**PF-AQ-13**). Additionally, contractors would be required to comply with SCAQMD Rule 403 to control construction-generated fugitive dust (PF-AQ-14). Construction of the Project would last approximately two years; however, three major construction stages are anticipated to construct the proposed Project. The Public Awareness Campaign under PF-COM-2 would also detail procedures for notifying the public of road closures, noise, dust, and other construction-related activities and would include a telephone hotline for the public to report concerns, with an option for telephone interpreters available upon request.

**Noise Impacts:** As described in Section 2.2.6 Noise and Vibration, temporary noise effects from the use of construction and vehicles for nearby sensitive land uses would be managed through the implementation of **AVM-NOI-1** through **AVM-NOI-3**, **PF-NOI-1**, and **PF-NOI-2**. Construction noise can vary depending on the construction activity, type, number, and condition of equipment used, and layout of construction site. However, the Project would be required to comply with Caltrans Standard Specifications, Section 14-8.02, Noise Control, to minimize construction noise impacts on sensitive land uses adjacent to the project limits. Project construction would be completed in three construction stages. Under **AVM-NOI-1**, demolition of the existing noise barrier and construction of the proposed noise barrier would be conducted in four segments along the Project Area in the first stage in order to minimize short-term noise impacts on nearby residents. The final staging plan (**PF-COM-3**) will be completed in the final design phase to ensure feasibility.

#### **Permanent Impacts**

**Traffic Impacts:** The purpose of the Project is to improve operations, safety, and reduce congestion. During operation, the Project would reduce vehicular congestion and improve freeway operations along Eastbound State Route 91, for both the mainline and ramps. The addition of the auxiliary lane in this area would also increase weaving length, reduce overall vehicular queues, and improve operational safety. For Design Year (2045) the change from No Build Conditions shows an increase in truck traffic from zero percent to three percent for all project segments; however, the increase in truck traffic is due to an increase in overall traffic volumes and not an increase in only truck percentages. The Project itself is not a vehicle trip generator and the Build Alternative would not result in a significant increase in truck volumes. The Project would not result in increase traffic in low-income and minority

neighborhoods, and minority owned businesses that serve a minority or low-income population would not be impacted by the Project. Access from minority or low-income neighborhoods to various services or cultural destinations (church, parks, community center) would also not be affected by the proposed Project. The Project would not affect access to transit services for minority or low-income households, and the benefits associated with the Project would be equitable for all segments of society. The Project would be anticipated to have a beneficial impact on traffic operations within the Project Area as the addition of an auxiliary lane to improve weaving would improve traffic operations and safety.

Air Quality Impacts: The Project is not a new or expanded highway that would result in a significant increase in diesel vehicles. For Design Year (2045) the change from No Build Conditions shows an increase in truck traffic from zero percent to three percent for all project segments; however, the increase in truck traffic is due to an increase in overall traffic volumes and not an increase in only truck percentages. In addition, the Build Alternative is consistent with applicable air quality plans and would not contribute to substantial permanent air quality impacts. The Project would reduce congestion, improve ramp queueing, and reduce peak period travel times. As noted in Section 2.1.3, Traffic and Transportation/Pedestrian and Bicycle Facilities, the Project would not result in significant increases in traffic volumes along area roadways, nor would the Project result in a significant increase in the number of diesel vehicles operating along area roadways. The Build Alternative is not a new or expanded bus or rail terminal, and would not affect locations, areas, or categories of sites identified in PM implementation plans as sites of possible violation. Operation of the Build Alternative is predicted to slightly increase emissions for  $PM_{2.5}$ ,  $PM_{10}$ , and nitrogen oxide (NO<sub>x</sub>) by approximately three percent, with an increase in emissions for reactive organic gases (ROG) and carbon monoxide (CO) by approximately two percent. Generally speaking, and not specific to this Project, improved operations could result in improved air quality since less emissions are produced by moving vehicles than idle vehicles.

**Noise Impacts:** Long term noise impacts associated with project operation are solely from traffic noise. Although the project would result in an increase in truck traffic from zero percent to three percent for all project segments for Design Year (2045), the increase in truck traffic is due to an increase in overall traffic volumes and not an increase in only truck percentages. Additionally, existing ambient noise levels are largely influenced by vehicle traffic on State Route 91 and local arterial streets.

Under 23 CFR 772.5, Noise Abatement Criteria (NAC) and activity categories correspond to various land use activity categories, where activity categories and acceptable noise levels are determined based on the actual or permitted land use in a given area. The Project Area was grouped into two analysis areas, where Area A is located on the north side of State Route 91 and Area B is located on the south side of State Route 91. Noise-sensitive receptors in Area A include residences (Activity Category B, 67 dBA  $L_{eq}[h]$ ), and in Area B includes residences, and a school and a place of worship (exterior Activity Category C, 67 dBA  $L_{eq}[h]$ ; interior Activity Category D, 52 dBA  $L_{eq}[h]$ ).

Various noise receptor locations are adjacent to State Route 91, and would be affected by traffic noise from the Project. Traffic noise impacts, as defined in 23 CFR 772.5, occur at receptor locations when predicted design-year noise levels approach or exceed the NAC for the

applicable activity category, or when the predicted design-year noise levels are 12 dB or more than existing noise levels.

Refer to Section 2.2.6 Noise and Vibration for a more detailed noise analysis. The traffic noise modeling results at land uses in Area A (located on the north side of State Route 91) indicate that noise levels are predicted to approach or exceed the NAC at residences (67 dBA  $L_{eq}[h]$ ). However, locations that are predicted to approach or exceed the NAC are not expected to result in any noise changes in the design-year compared to existing conditions; that is, current conditions modeled already indicate that some locations approach or exceed the NAC, and future noise increases above current conditions are not predicted.

The traffic noise modeling results indicate that traffic noise levels in Area B (located on the south side of State Route 91) are predicted to approach or exceed the NAC at residences (67 dBA L<sub>eq</sub>[h]), where one modeled location is predicted to see an increase in noise up to a 13 dBA. Therefore, noise abatement was considered in the Project Study Area. In Area B, preliminary noise abatement in the form of a soundwall, Barrier BA-4, would be considered during final design. Barrier BA-4 would be constructed on the edge of the freeway beginning at approximately the edge of the existing retaining wall at the corner of 67th Street and Millmark Avenue on the Atlantic Avenue on-ramp to the vicinity of the existing soundwall on the Cherry Avenue off-ramp. Preliminary design data show that in the location where an increase in 13 dBA is predicted to occur, Barrier BA-4 is anticipated to reduce the noise to existing noise levels, or 59 dBA, and therefore, would not result in disproportionately high and adverse noise impacts.

A 14-foot barrier for Barrier BA-4 would achieve the minimum noise reduction to be considered acoustically feasible and would replace existing noise barrier, EXB-4. This noise barrier would also meet the Caltrans design goal of 7 dB noise reduction at one or more benefited receivers for all evaluated wall heights, with a length of approximately 4,864 feet.

**Environmental Justice Summary:** As discussed earlier, all census block groups in the Project Study Area contain Environmental Justice populations (i.e., low-income and minority populations) for the purposes of this analysis. This does not disregard the fact that there are non-environmental justice populations also residing within the Project Study Area. As discussed in the respective sections above, temporary and permanent impacts to air quality, noise, and traffic would not disproportionately impact environmental justice populations only; all populations within the Project Study would be affected.

Overall, the Project would have beneficial effects on long term traffic operation on the surrounding communities and users of State Route 91 when compared with current conditions. Project improvements would be limited to Caltrans and City right of way and would not require incursion into surrounding neighborhoods, would not change existing community relationships, and would not require the displacement or relocation of any persons.

The larger population (e.g., County of LA and motorists of the Eastbound State Route 91 mainline), would benefit from enhanced safety conditions due to the extended HOV opening to improve and increase the weaving length to and from the ramps, improved traffic operations and safety from the addition of the auxiliary lane to improve weaving opportunities onto the mainline, and increasing the sight distance at the Eastbound State Route 91 Cherry Avenue Off-Ramp. Temporary traffic, air quality, and noise impacts would affect residents along the entire Project

Study Area during construction and would affect all of the census block groups within the Project Study Area comparably, regardless of demographic or socioeconomic characteristics. During construction, overnight mainline and ramp closures on Eastbound State Route 91, and local street closures may temporarily disrupt local traffic patterns. Additionally, temporary construction activities limited to the immediate area surrounding the construction site could lead to the short-term degradation of air quality and an increase in noise during construction activities.

However, the larger population would also be affected temporarily due to short-term construction activities. During construction, all motorists may experience temporary disruptions to traffic patterns during overnight closures of the Eastbound State Route 91 mainline and ramps. A Traffic Management Plan would be implemented to identify alternate routes, detours, and access points. Though there may be temporary disruptions during construction, residents immediately adjacent to the Project Study Area would also benefit from improved freeway and local street operations, including the lengthened storage space at the Atlantic Avenue On-Ramp which would ease congestion and storage overflow that occurs on Atlantic Avenue. Additional local benefits include lowering the retaining wall structure to accommodate the City of Long Beach's future Hamilton Loop Project which will also improve wall aesthetics, landscaping, and vegetation in the Project Study Area, and provide additional lighting for community safety.

During early planning for the Project, conceptual alternatives requiring right-of-way acquisitions were screened out from consideration to avoid permanent impacts to the community. Furthermore, project features would reduce temporary construction traffic, noise, and air quality impacts on all populations in the study area, including low-income and minority populations. Temporary construction impacts would be minimized by implementation of Project Features PF-COM-2 and PF-COM-3, which are provided in Section 2.1.3, Traffic and Transportation/Pedestrian and Bicycle Facilities. Temporary air quality effects would be minimized by Project Features **PF-AQ-1** through **PF-AQ-14**, which are detailed in Section 2.2.5. Air Quality. These project features and measures require the control of dust and equipment emissions during construction of the Build Alternative. These features and measures would benefit all persons in the project area, including low-income and minority populations. Temporary noise effects would be minimized by Project Features **PF-NOI-1** and **PF-NOI-2**, which is detailed in Section 2.13, Noise. These project features would benefit all persons in the project area, including low-income and minority populations. During Final Design, Caltrans and Metro will consider and incorporate measures that support equity, environmental justice and community values by minimizing construction impacts to those who may be directly impacted (PF-COM-4).

The environmental document was available for public review during a public comment period for 75 days; and public notices were circulated to residents in proximity to the Project Area (owners or occupants of properties to the south of East 68<sup>th</sup> Street, to the north of Artesia Boulevard, to the east of I-710, and to the west of the Union Pacific Railroad that runs between Cherry and Paramount Avenues), to ensure populations near the Project Area were involved in the decision-making or project information process. A virtual public hearing was held on February 18, 2021 from 6pm to 8pm and was an open forum format where the Project team gave a brief presentation of the Project followed by an opportunity for members of the public to ask clarifying questions and provide verbal comments on the project. Please see Chapter 4 Comments and Coordination for additional details regarding ongoing public outreach efforts.

#### Project Features

The following Project feature will be implemented to reduce construction impacts on all affected populations:

**PF-COM-4** During the development of Final Design (PS&E) Caltrans & Metro will consider and incorporate measures that support equity, environmental justice and community values by minimizing construction impacts to those who may be directly impacted.

#### Avoidance, Minimization, and/or Mitigation Measures

In addition to Project Features **PF-NOI-1** and **PF-NOI-2** (discussed above), temporary noise effects would be minimized by Avoidance and Minimization Measures **AVM-NOI-1** through **AVM-NOI-3**, which is detailed in Section 2.13, Noise. These avoidance and minimization measures would benefit all persons in the project area, including low-income and minority populations.

Based on the above discussion and analysis, the Build Alternative will not cause disproportionately high and adverse effects on any minority or low-income populations in accordance with the provisions of Executive Order 12898. No further Environmental Justice analysis is required.

#### **Cumulative Impacts**

For the purposes of this analysis, there are environmental justice populations throughout the Project Study Area because all census block groups within the Project Study Area are defined as a minority population, and two census block groups are defined as a low-income population.

Of the current and future projects listed in **Table 6** above, the State Route 91 Central Avenue to Acacia Court Project Initial Study with Proposed Mitigated Negative Declaration/Environmental Assessment (Draft IS/EA) did not identify disproportionately high and adverse effects on minority or low-income populations. As discussed in the I-710 Corridor Project Recirculated Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement (RDEIR/SDEIS), the I-710 Corridor Project identified disproportionately high and adverse impacts for air quality (construction and operation), noise, traffic, community cohesion, visual resources, and land use. Three mitigation measures for the I-710 Corridor Project were developed to help alleviate project-related impacts to environmental justice communities and address disproportionate adverse impacts on environmental justice populations for the I-710 Corridor Project. To address disproportionate adverse noise impacts to environmental justice populations for the I-710 Corridor Project, interior noise abatement would be implemented at targeted locations to reduce interior noise levels below 52 dBA. Additionally, funding would be provided to local jurisdictions for targeted improvements anticipated to improve air quality and public health, reduce traffic congestion, provide aesthetic/visual enhancements, and improve parks and recreation. Targeted improvements would be directed to specific locations along I-710 where a high percentage of minority and/or low-income populations were identified. For potential effects related to exposure to pollutants, upgraded or new filtration, or heating,

ventilation, and air conditioning (HVAC) systems would be provided for specified facilities that are located within an area of pollutant increases under either of the build alternatives. Construction of the I-710 Corridor Project is anticipated to begin in 2025, after completion of the proposed Project.

Although environmental documents were not available for the Uptown Commons and Hamilton Loop projects, these projects would be required to implement avoidance, minimization, and/or mitigation measures to comply with the requirements of CEQA and/or NEPA. Additionally, both the Uptown Commons and Hamilton Loop projects are expected to provide beneficial services to nearby residents. Neither project is expected to provide disproportionate benefits nor create disproportionate impacts to any member of the population.

As discussed above, though the Project would result in temporary impacts to Environmental Justice populations that would be minimized through implementation of project features and avoidance and minimization measures, the proposed Project would not contribute to cumulatively adverse impacts on Environmental Justice populations.

#### 2.1.2 UTILITIES/EMERGENCY SERVICES

#### Affected Environment

A Community Impact Assessment (CIA) was prepared for the Project in August 2020 to discuss potential impacts on community facilities, including utilities and emergency services. As discussed in the CIA, there are five utility lines in the Project Area, as summarized in **Table 11**.

| Utility Owner                     | Location        | Utility Type       | Size    | Underground or<br>Overhead | Utility Conflict<br>Description |
|-----------------------------------|-----------------|--------------------|---------|----------------------------|---------------------------------|
| Long Beach<br>Energy<br>Resources | Myrtle Avenue   | Gas                | 4-inch  | Underground                | Close to bridge widening        |
| Long Beach<br>Water<br>Department | Myrtle Avenue   | Sewer              | 8-inch  | Underground                | Close to bridge widening        |
| Long Beach<br>Water<br>Department | Atlantic Avenue | Water              | 12-inch | Underground                | Close to bridge widening        |
| Crown Castle                      | Orange Avenue   | Telecommunications | -       | Underground                | Close to bridge<br>widening     |
| Southern<br>California Edison     | Orange Avenue   | Electric           | -       | Overhead                   | Potential impact to line        |

#### Table 11: Affected Utilities

Source: TRC, 2020

In the City of Long Beach, the City's Police Department provides law enforcement services, and the Long Beach Fire Department provides fire and paramedic services, along with private and neighboring City law enforcement and first response agencies. The Los Angeles County Sheriff's Department and City of Paramount Sheriff's Department provide law enforcement services in proximity to the Project Area. In addition, the Los Angeles County Fire Department and City of Compton Fire Department provide fire and paramedic services in proximity to the

Project Area. The closest fire and police stations to the Project Area are included in **Table 12**. No emergency service facilities are located in the Project Area.

| Property Name                                      | Address                                               | Description                                                         |
|----------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------|
| City of Compton Fire Department<br>– Station 2     | 1320 East Palmer Street,<br>Compton, CA 90221         | Fire station approximately 1.8 miles northwest of Project Area      |
| Los Angeles County Fire<br>Department – Station 11 | 160 East Market Street, Long<br>Beach, CA 90805       | Fire station approximately 1.6 miles south Project Area             |
| Long Beach Fire Department -<br>Station 12         | 1199 East Artesia Boulevard, Long<br>Beach, CA 90805  | Fire station approximately 0.2 mile south of Project Area           |
| Los Angeles County Fire<br>Department – Station 31 | 7521 Somerset Boulevard,<br>Paramount, CA 90723       | Fire station approximately 1.4 miles north of Project Area          |
| Los Angeles County Fire<br>Department – Station 45 | 4020 Candlewood Street,<br>Lakewood, CA 90712         | Fire station approximately 2.0 miles southeast of Project Area      |
| Los Angeles County Sheriff –<br>Compton Station    | 301 South Willowbrook Avenue,<br>Compton, CA 90220    | Police station approximately 2.3 miles<br>northwest of Project Area |
| City of Long Beach Police –<br>North Division      | 4891 Atlantic Avenue, Long Beach,<br>CA 90807         | Police station approximately 2.3 miles south of Project Area        |
| City of Paramount Sheriff Station                  | 15001 Paramount Boulevard # C,<br>Paramount, CA 90723 | Police station approximately 1.5 miles<br>northeast of Project Area |

#### Table 12: Emergency Service Facilities

Source: Google Earth, 2020

#### **Environmental Consequences**

#### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on utilities or emergency services.

#### ALTERNATIVE 2 (BUILD ALTERNATIVE)

There are five utility lines in the Project Area, as summarized above in **Table 11**. Existing utilities within proposed improvements would require to be protected in place. There are no anticipated relocation of utility lines proposed as part of the Project. Prior to construction, coordination would be conducted with utility owners/operators if any disruptions to utility service are anticipated to ensure that disruptions would not adversely affect customer service or utility operations (see **PF-COM-1** below). Prior to final design, coordination with affected utility owners will be conducted to ensure all utilities are accurately identified. Therefore, the Build Alternative would not result in adverse impacts on utilities.

As required by California state law, Underground Service Alert of Southern California (USA) would be contacted a minimum of two working days before initiating fieldwork. Prior to contacting USA, each boring location will be delineated with white spray paint thereby outlining the proposed limits of subsurface work. A ticket number would be obtained to request utility

clearance by parties with underground utilities in the areas. Following notification, utility owners and/or representatives will mark the approximate location of each subsurface utility. Prior to conducting subsurface fieldwork, each location will be visually inspected to verify potential conflicts and avoid disruptions in service. Therefore, the Build Alternative would not result in adverse impacts on utilities.

The Project would not require the acquisition or displacement of emergency services. Emergency access may be temporarily affected by detours associated with temporary freeway mainline and ramp closures, and local street closures, which would require emergency service providers to use different routes. However, prior to construction, coordination would be conducted with local emergency service providers and the surrounding community to minimize service delays and disruptions during construction (see **PF-ES-1** below). Following construction, the Project would result in operational improvements on the freeway, which would benefit emergency service access.

The following Project features would be implemented to reduce impacts on emergency services:

- **PF-COM-1** Prior to construction, Metro will coordinate with and notify impacted community facilities owners (e.g., medical facilities, churches, and educational facilities and districts) to ensure access is maintained at all times during construction.
- **PF-ES-1** Prior to construction, Metro would coordinate with local emergency service providers and communicate with the surrounding community to minimize service delays and disruptions during construction.

With implementation of these Project features, the Build Alternative would not result in adverse impacts on utilities and emergency services.

#### Avoidance, Minimization, and/or Mitigation Measures

Impacts on utilities and emergency services would not be adverse; therefore, avoidance, minimization, and/or mitigation measures would not be required.

#### **Cumulative Impacts**

The Project Study Area is adequately served by existing utility and emergency service providers. As discussed above, the proposed Project would not result in adverse operational effects on utilities. In addition, the proposed Project would result in beneficial operational effects on emergency services through proposed improvements to traffic and transportation. Therefore, the proposed Project would not contribute to an adverse cumulative effect on utilities and emergency services and no further analysis is required.

#### 2.1.3 TRAFFIC AND TRANSPORTATION/PEDESTRIAN AND BICYCLE FACILITIES

#### **Regulatory Setting**

Caltrans, as assigned by the Federal Highway Administration, directs that full consideration should be given to the safe accommodation of pedestrians and bicyclists during the development of Federal-aid highway projects (see 23 Code of Federal Regulations [CFR] 652). It further directs that the special needs of the elderly and the disabled must be considered in all Federal-aid projects that include pedestrian facilities. When current or anticipated pedestrian and/or bicycle traffic presents a potential conflict with motor vehicle traffic, every effort must be made to minimize the detrimental effects on all highway users who share the facility.

In July 1999, the U.S. Department of Transportation (USDOT) issued an Accessibility Policy Statement pledging a fully accessible multimodal transportation system. Accessibility in federally assisted programs is governed by the USDOT regulations (49 CFR 27) implementing Section 504 of the Rehabilitation Act (29 United States Code [USC] 794). The Federal Highway Administration has enacted regulations for the implementation of the 1990 Americans with Disabilities Act (ADA), including a commitment to build transportation facilities that provide equal access for all persons. These regulations require application of the ADA requirements to federal-aid projects, including Transportation Enhancement Activities.

#### Affected Environment

A Traffic Volumes Report, Traffic Operations Analysis Report (TOAR), and Community Impact Assessment were prepared for the Project in July, September, and August 2020, respectively to discuss potential impacts on traffic, transportation, and pedestrian and bicycle facilities.

#### PRIMARY ROADWAYS

**Figure 8** below illustrates existing and proposed transportation facilities in the Project Area. The Project Area includes a 1.4-mile segment from the southbound I-710 interchange connector to Eastbound State Route 91, to Cherry Avenue. Primary roadways within the Project Study Area are listed in **Table 13**.

| Roadway                                 | Direction   | Roadway Classification |
|-----------------------------------------|-------------|------------------------|
| Atlantic Avenue                         | North/South | Major Avenue           |
| Paramount                               | North/South | Major Avenue           |
| Myrtle Avenue                           | North/South | Local Road             |
| Orange Avenue                           | North/South | Minor Avenue           |
| Walnut Avenue                           | North/South | Local Road             |
| Cherry Avenue                           | North/South | Major Avenue           |
| Artesia Boulevard                       | East/West   | Major Avenue           |
| East Penfold Street/East Eleanor Street | East/West   | Local Road             |
| East 67 <sup>th</sup> Street            | East West   | Local Road             |

#### Table 13: Primary Roadways

Source: City of Long Beach, 2013

Existing and Forecast conditions (No Build Alternative) conditions for the freeway mainline, ramps, and weaving segments evaluated within the Project Area show several segments currently operate at level of service D or lower during one or both peak hour periods, as shown in **Table 14**.

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021



#### Figure 8: Transportation Facilities

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#### Table 14: Level of Service for Existing and Forecast Conditions (No Build Alternative)

| Location                                                                                                                       | Segment<br>Type          | Existing<br>Conditions<br>(2019) A.M.<br>Peak Hour<br>Density | Existing<br>Conditions<br>(2019) A.M.<br>Peak Hour<br>Level of<br>Service | Existing<br>Conditions<br>(2019) P.M.<br>Peak Hour<br>Density | Existing<br>Conditions<br>(2019) P.M.<br>Peak Hour<br>Level of<br>Service | Opening<br>Year (2024)<br>A.M. Peak<br>Hour<br>Density | Opening<br>Year (2024)<br>A.M. Peak<br>Hour Level<br>of Service | Opening<br>Year (2024)<br>P.M. Peak<br>Hour<br>Density | Opening<br>Year (2024)<br>P.M. Peak<br>Hour Level<br>of service | Horizon Year<br>(2045) A.M.<br>Peak Hour<br>Density | Horizon Year<br>(2045) A.M.<br>Peak Hour<br>Level of<br>Service | Horizon Year<br>(2045) P.M.<br>Peak Hour<br>Density | Horizon Year<br>(2045) P.M.<br>Peak Hour<br>Level of<br>service |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|
| West of I-710 Northbound Connector                                                                                             | Basic Freeway<br>Segment | 11.9                                                          | В                                                                         | 30.4                                                          | D                                                                         | 12.2                                                   | В                                                               | 30.4                                                   | D                                                               | 13.0                                                | В                                                               | 30.6                                                | D                                                               |
| I-710 Northbound Connector to I-710<br>Southbound Connector                                                                    | Basic Freeway<br>Segment | 19.4                                                          | С                                                                         | 44.8                                                          | E                                                                         | 19.7                                                   | С                                                               | 45.1                                                   | F                                                               | 20.7                                                | С                                                               | 46.2                                                | F                                                               |
| I-710 Southbound Connector to Atlantic Avenue<br>On-Ramp                                                                       | Basic Freeway<br>Segment | 24.3                                                          | С                                                                         | 67.1                                                          | F                                                                         | 24.6                                                   | С                                                               | 67.4                                                   | F                                                               | 26.3                                                | D                                                               | 70.2                                                | F                                                               |
| Cherry Avenue Off-Ramp to Cherry Avenue On-<br>Ramp                                                                            | Basic Freeway<br>Segment | 30.4                                                          | D                                                                         | 59.3                                                          | F                                                                         | 30.8                                                   | D                                                               | 59.4                                                   | F                                                               | 32.5                                                | D                                                               | 61.8                                                | F                                                               |
| Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp                                                                 | Basic Freeway<br>Segment | 30.1                                                          | D                                                                         | 46.8                                                          | F                                                                         | 30.5                                                   | D                                                               | 46.9                                                   | F                                                               | 32.3                                                | D                                                               | 48.6                                                | F                                                               |
| East of Paramount Boulevard On-Ramp                                                                                            | Basic Freeway<br>Segment | 26.6                                                          | D                                                                         | 44.9                                                          | E                                                                         | 27.0                                                   | D                                                               | 45.1                                                   | F                                                               | 28.6                                                | D                                                               | 47.0                                                | F                                                               |
| West of I-710 Northbound Connector                                                                                             | HOV Lane<br>Segment      | 10.7                                                          | A                                                                         | 75.1                                                          | F                                                                         | 10.7                                                   | A                                                               | 75.4                                                   | F                                                               | 10.8                                                | A                                                               | 76.1                                                | F                                                               |
| I-710 Northbound Connector to I-710<br>Southbound Connector                                                                    | HOV Lane<br>Segment      | 10.7                                                          | A                                                                         | 75.1                                                          | F                                                                         | 10.7                                                   | A                                                               | 75.4                                                   | F                                                               | 10.8                                                | A                                                               | 76.1                                                | F                                                               |
| I-710 Southbound Connector to Atlantic Avenue<br>On-Ramp                                                                       | HOV Lane<br>Segment      | 10.7                                                          | А                                                                         | 75.1                                                          | F                                                                         | 10.7                                                   | А                                                               | 75.4                                                   | F                                                               | 10.8                                                | A                                                               | 76.1                                                | F                                                               |
| Atlantic Avenue On-Ramp to Cherry Avenue Off-<br>Ramp                                                                          | HOV Lane<br>Segment      | 22.0                                                          | С                                                                         | 56.7                                                          | F                                                                         | 22.1                                                   | С                                                               | 56.9                                                   | F                                                               | 22.7                                                | С                                                               | 57.7                                                | F                                                               |
| Cherry Avenue Off-Ramp to Cherry Avenue On-<br>Ramp                                                                            | HOV Lane<br>Segment      | 18.5                                                          | С                                                                         | 56.0                                                          | F                                                                         | 18.5                                                   | С                                                               | 56.2                                                   | F                                                               | 18.7                                                | С                                                               | 56.8                                                | F                                                               |
| Cherry Avenue On-Ramp to Paramount<br>Boulevard Off-Ramp                                                                       | HOV Lane<br>Segment      | 18.5                                                          | С                                                                         | 56.0                                                          | F                                                                         | 18.5                                                   | С                                                               | 56.2                                                   | F                                                               | 18.7                                                | С                                                               | 56.8                                                | F                                                               |
| Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp                                                                 | HOV Lane<br>Segment      | 18.5                                                          | С                                                                         | 56.0                                                          | F                                                                         | 18.5                                                   | С                                                               | 56.2                                                   | F                                                               | 18.7                                                | С                                                               | 56.8                                                | F                                                               |
| East of Paramount Boulevard On-Ramp                                                                                            | HOV Lane<br>Segment      | 18.5                                                          | С                                                                         | 56.0                                                          | F                                                                         | 18.5                                                   | С                                                               | 56.2                                                   | F                                                               | 18.7                                                | С                                                               | 56.8                                                | F                                                               |
| Atlantic Avenue On-Ramp to Cherry Avenue Off-<br>Ramp Conventional weave between auxiliary<br>lane and the freeway mainline    | Weaving<br>Segment       | 27.9                                                          | С                                                                         | 50.1                                                          | F                                                                         | 28.3                                                   | С                                                               | 50.3                                                   | F                                                               | 30.0                                                | D                                                               | 52.3                                                | F                                                               |
| Atlantic Avenue On-Ramp to Cherry Avenue Off-<br>Ramp Managed lane access segment with cross-<br>weaving                       | Weaving<br>Segment       | 22.0                                                          | С                                                                         | 56.7                                                          | F                                                                         | 22.1                                                   | С                                                               | 56.9                                                   | F                                                               | 22.7                                                | С                                                               | 57.7                                                | F                                                               |
| Cherry Avenue On-Ramp to Paramount<br>Boulevard Off-Ramp Conventional weave<br>between auxiliary lane and the freeway mainline | Weaving<br>Segment       | 27.7                                                          | D                                                                         | 52.6                                                          | F                                                                         | 28.0                                                   | D                                                               | 52.8                                                   | F                                                               | 29.5                                                | D                                                               | 55.0                                                | F                                                               |

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020) Notes: HOV = High=Occupancy Vehicle; I-710 = Interstate 710

Density is equal to passenger cars per mile per lane.

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As shown in **Table 15**, the total accident rates (which include fatal, injury, and property damage only (PDO) accidents) range from 0.47 to 1.76 accidents per million vehicle miles on the mainline; and from 0 to 3.01 on the ramps. In addition, total accident rates range from about 30 percent to about 73 percent higher than the total statewide average accident rate, except for the segment between the Long Beach Boulevard interchange and the I-710 interchange, where the actual total accident rate is about 107 percent higher than the total statewide average accident rate.

The predominant types of accident collisions are presented in **Table 16** and the primary collision factor is summarized in **Table 17**. The data shows that about 50 percent of the freeway mainline collisions occurred in the interior lanes, 10 percent occurred in the HOV lane, and most of the remaining collisions took place in the right and left lanes. The predominant types of collisions were rear ends, accounting for about 65 percent of the total, followed by sideswipes which accounted for about 30 percent of the total accidents. The primary collision factor was speeding, which accounted for over 60 percent of the total accidents. The predominant location, type, and primary collision factors of the reported accidents are considered congestion related and are mainly due to stop-and-go traffic, the formation of vehicular queues, and the shifting between the various traffic lanes. Most of the accidents reported on the freeway ramp segments occurred on the body of the ramp and at the ramp terminus intersection location. Most of the accident types are rear ends and sideswipes with the reported primary collision factor being unsafe speed. The predominant location, type, and primary collision factors of the reported accidents are considered congestion related.

As noted in **Table 18**, existing peak hour levels of service at area signalized intersections range from level of service A to level of service D. Peak hour level of service at 2-way-stop intersections are level of service D or level of service F. The freeway level of service is based on vehicle density within the segment being analyzed.

## **BICYCLE AND PEDESTRIAN FACILITIES**

The City's Bicycle Master Plan identifies existing and planned bicycle and pedestrian facilities in the City (City of Long Beach, 2017). Existing and future bicycle facilities in the Project Study Area are shown in **Figure 8** above. Proposed portions of the Atlantic Avenue Bike Lane (B-7), Myrtle Avenue Bike Boulevard (B-8), and the Walnut Avenue Bike Boulevard (B-11) transect the Project Area; and an existing portion of the Orange Avenue Bike Lane (B-10) transects the Project Area.

One planned pedestrian and bicycle facility, the Hamilton Loop (also known as the State Route 91 Embankment Greenbelt), is planned in Caltrans right of way along portions of the north and south embankments of State Route 91 within the Project Area (City of Long Beach, 2018). The greenbelt, which is currently in preliminary design, would include a 2-mile-long walking loop with seating areas and outdoor fitness equipment.

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Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

Table 15: Summary of Accident Rates in Project Area (2016-2018)

| Location Description                                                          | From<br>Post<br>Mile | To<br>Post<br>Mile | Direction | Total<br>Accidents | Actual<br>Accident Rates<br>(Fatal) | Actual Accident<br>Rates (Fatal plus<br>Injury) | Actual<br>Accident Rates<br>(Total) | Statewide Average<br>Accident Rates<br>(Fatal) | Statewide Average<br>Accident Rates (Fatal<br>plus Injury) | Statewide Average<br>Accident Rates<br>(Total) |
|-------------------------------------------------------------------------------|----------------------|--------------------|-----------|--------------------|-------------------------------------|-------------------------------------------------|-------------------------------------|------------------------------------------------|------------------------------------------------------------|------------------------------------------------|
| Long Beach Boulevard to I-710 Interchange (Mainline)                          | 11.096               | 11.681             | Eastbound | 125                | 0                                   | 0.48                                            | 1.76                                | 0.003                                          | 0.26                                                       | 0.85                                           |
| I-710 Interchange to Atlantic Avenue (Mainline)                               | 11.681               | 12.039             | Eastbound | 25                 | 0                                   | 0.06                                            | 0.47                                | 0.003                                          | 0.34                                                       | 1.09                                           |
| Atlantic Avenue to Cherry Avenue (Mainline)                                   | 12.039               | 13.094             | Eastbound | 251                | 0                                   | 0.44                                            | 1.59                                | 0.003                                          | 0.28                                                       | 0.92                                           |
| Cherry Avenue Paramount Boulevard (Mainline)                                  | 13.094               | 13.594             | Eastbound | 92                 | 0                                   | 0.30                                            | 1.21                                | 0.003                                          | 0.28                                                       | 0.93                                           |
| Eastbound State Route 91 On-Ramp from Long Beach Boulevard                    | 11.043               | 11.043             | Eastbound | 10                 | 0                                   | 0.35                                            | 1.73                                | 0.001                                          | 0.23                                                       | 0.67                                           |
| Eastbound State Route 91 Off-Ramp to Southbound I-710 Freeway                 | 11.421               | 11.421             | Eastbound | 7                  | 0                                   | 0.41                                            | 0.72                                | 0.003                                          | 0.12                                                       | 0.37                                           |
| Eastbound State Route 91 Off-Ramp to Northbound I-710 Freeway/Atlantic Avenue | 11.588               | 11.588             | Eastbound | 4                  | 0                                   | 0.00                                            | 0.13                                | 0.002                                          | 0.08                                                       | 0.25                                           |
| Eastbound State Route 91 Off-Ramp Segment to Atlantic Avenue                  | 11.748               | 11.748             | Eastbound | 14                 | 0                                   | 0.86                                            | 3.01                                | 0.004                                          | 0.32                                                       | 0.92                                           |
| Eastbound State Route 91 On-Ramp from Northbound I-710 Freeway                | 11.794               | 11.794             | Eastbound | 17                 | 0                                   | 0.07                                            | 0.63                                | 0.002                                          | 0.11                                                       | 0.32                                           |
| Eastbound State Route 91 On-Ramp from Southbound I-710 Freeway                | 11.994               | 11.994             | Eastbound | 0                  | 0                                   | 0.00                                            | 0.00                                | 0.002                                          | 0.11                                                       | 0.32                                           |
| Eastbound State Route 91 On-Ramp from Atlantic Avenue                         | 12.240               | 12.240             | Eastbound | 9                  | 0                                   | 0.23                                            | 1.03                                | 0.002                                          | 0.21                                                       | 0.60                                           |
| Eastbound State Route 91 Off-Ramp to Cherry Avenue                            | 12.968               | 12.968             | Eastbound | 8                  | 0                                   | 0.10                                            | 0.79                                | 0.004                                          | 0.32                                                       | 0.92                                           |
| Eastbound State Route 91 On-Ramp from Cherry Avenue                           | 13.263               | 13.263             | Eastbound | 9                  | 0                                   | 0.00                                            | 0.74                                | 0.002                                          | 0.21                                                       | 0.60                                           |
| Eastbound State Route 91 Off-Ramp to Paramount Boulevard                      | 13.452               | 13.452             | Eastbound | 16                 | 0                                   | 0.84                                            | 1.92                                | 0.004                                          | 0.32                                                       | 0.92                                           |

Source: Caltrans Traffic Accident Surveillance and Analysis System (TASAS) Database; Intueor Consulting, 2020 Notes: Bold text indicates locations with accident rates higher than the statewide average.

## Table 16: Predominant Type of Accident Collisions (2016-2018)

| Location Description                                                          | From<br>Post Mile | To<br>Post Mile | Total Accidents | Head On | Side-swipe | Rear End | Broad-side | Hit Object | Over-turn | Auto-Peds | Other | Not Stated |
|-------------------------------------------------------------------------------|-------------------|-----------------|-----------------|---------|------------|----------|------------|------------|-----------|-----------|-------|------------|
| Long Beach Boulevard to I-710 Interchange (Mainline)                          | 11.096            | 11.681          | 125             | 0.0     | 26.4       | 65.6     | 0.8        | 5.6        | 0.8       | 0.0       | 0.8   | 0.0        |
| I-710 Interchange to Atlantic Avenue (Mainline)                               | 11.681            | 12.039          | 25              | 0.0     | 40.0       | 56.0     | 0.0        | 4.0        | 0.0       | 0.0       | 0.0   | 0.0        |
| Atlantic Avenue to Cherry Avenue (Mainline)                                   | 12.039            | 13.094          | 251             | 0.0     | 29.1       | 66.1     | 1.6        | 2.4        | 0.8       | 0.0       | 0.0   | 0.0        |
| Cherry Avenue Paramount Boulevard (Mainline)                                  | 13.094            | 13.594          | 92              | 2.2     | 25.0       | 65.2     | 1.1        | 6.5        | 0.0       | 0.0       | 0.0   | 0.0        |
| Eastbound State Route 91 On-Ramp from Long Beach Boulevard                    | 11.043            | 11.043          | 10              | 0.0     | 40.0       | 30.0     | 10.0       | 20.0       | 0.0       | 0.0       | 0.0   | 0.0        |
| Eastbound State Route 91 Off-Ramp to Southbound I-710 Freeway                 | 11.421            | 11.421          | 7               | 0.0     | 0.0        | 14.3     | 0.0        | 57.1       | 28.6      | 0.0       | 0.0   | 0.0        |
| Eastbound State Route 91 Off-Ramp to Northbound I-710 Freeway/Atlantic Avenue | 11.588            | 11.588          | 4               | 0.0     | 75.0       | 0.0      | 0.0        | 25.0       | 0.0       | 0.0       | 0.0   | 0.0        |
| Eastbound State Route 91 Off-Ramp Segment to Atlantic Avenue                  | 11.748            | 11.748          | 14              | 7.1     | 14.3       | 35.7     | 21.4       | 7.1        | 0.0       | 0.0       | 0.0   | 14.3       |
| Eastbound State Route 91 On-Ramp from Northbound I-710 Freeway                | 11.794            | 11.794          | 17              | 0.0     | 64.7       | 23.5     | 0.0        | 5.9        | 5.9       | 0.0       | 0.0   | 0.0        |
| Eastbound State Route 91 On-Ramp from Southbound I-710 Freeway                | 11.994            | 11.994          | 0               | 0.0     | 0.0        | 0.0      | 0.0        | 0.0        | 0.0       | 0.0       | 0.0   | 0.0        |
| Eastbound State Route 91 On-Ramp from Atlantic Avenue                         | 12.240            | 12.240          | 9               | 11.1    | 22.2       | 66.7     | 0.0        | 0.0        | 0.0       | 0.0       | 0.0   | 0.0        |
| Eastbound State Route 91 Off-Ramp to Cherry Avenue                            | 12.968            | 12.968          | 8               | 12.5    | 37.5       | 25.0     | 25.0       | 0.0        | 0.0       | 0.0       | 0.0   | 0.0        |
| Eastbound State Route 91 On-Ramp from Cherry Avenue                           | 13.263            | 13.263          | 9               | 0.0     | 44.4       | 33.3     | 22.2       | 0.0        | 0.0       | 0.0       | 0.0   | 0.0        |
| Long Beach Boulevard to I-710 Interchange (Mainline)                          | 13.452            | 13.452          | 16              | 0.0     | 18.8       | 68.8     | 12.5       | 0.0        | 0.0       | 0.0       | 0.0   | 0.0        |

Source: Caltrans Traffic Accident Surveillance and Analysis System (TASAS) Database; Intueor Consulting, 2020

## Table 17: Primary Collision Factor (2016-2018)

| Location Description                                                                | From<br>Post Mile | To<br>Post Mile | Total<br>Accidents | Influence<br>of<br>Alcohol | Follow<br>too<br>Close | Failure to<br>Yield | Improper<br>Turn | Speeding | Other<br>Violations | Improper<br>Driving | Other<br>than<br>Driver | Not Sta |
|-------------------------------------------------------------------------------------|-------------------|-----------------|--------------------|----------------------------|------------------------|---------------------|------------------|----------|---------------------|---------------------|-------------------------|---------|
| Long Beach Boulevard to I-710<br>Interchange (Mainline)                             | 11.096            | 11.681          | 125                | 5.6                        | 0.0                    | 0.0                 | 4.8              | 60.8     | 28.0                | 0.0                 | 0.8                     | 0.0     |
| I-710 Interchange to Atlantic Avenue (Mainline)                                     | 11.681            | 12.039          | 25                 | 0.0                        | 0.0                    | 0.0                 | 8.0              | 64.0     | 28.0                | 0.0                 | 0.0                     | 0.0     |
| Atlantic Avenue to Cherry Avenue<br>(Mainline)                                      | 12.039            | 13.094          | 251                | 2.8                        | 0.4                    | 0.0                 | 8.4              | 59.8     | 27.9                | 0.4                 | 0.0                     | 0.4     |
| Cherry Avenue Paramount Boulevard (Mainline)                                        | 13.094            | 13.594          | 92                 | 4.3                        | 0.0                    | 0.0                 | 9.8              | 66.3     | 16.3                | 0.0                 | 1.1                     | 2.2     |
| Eastbound State Route 91 On-Ramp from<br>Long Beach Boulevard                       | 11.043            | 11.043          | 10                 | 0.0                        | 0.0                    | 0.0                 | 0.0              | 60.0     | 40.0                | 0.0                 | 0.0                     | 0.0     |
| Eastbound State Route 91 Off-Ramp to Southbound I-710 Freeway                       | 11.421            | 11.421          | 7                  | 42.9                       | 0.0                    | 0.0                 | 14.3             | 42.9     | 0.0                 | 0.0                 | 0.0                     | 0.0     |
| Eastbound State Route 91 Off-Ramp to<br>Northbound I-710 Freeway/Atlantic<br>Avenue | 11.588            | 11.588          | 4                  | 25.0                       | 0.0                    | 0.0                 | 0.0              | 0.0      | 75.0                | 0.0                 | 0.0                     | 0.0     |
| Eastbound State Route 91 Off-Ramp<br>Segment to Atlantic Avenue                     | 11.748            | 11.748          | 14                 | 14.3                       | 0.0                    | 14.3                | 0.0              | 28.6     | 28.6                | 0.0                 | 0.0                     | 14.2    |
| Eastbound State Route 91 On-Ramp from<br>Northbound I-710 Freeway                   | 11.794            | 11.794          | 17                 | 0.0                        | 0.0                    | 0.0                 | 0.0              | 76.5     | 23.5                | 0.0                 | 0.0                     | 0.0     |
| Eastbound State Route 91 On-Ramp from<br>Southbound I-710 Freeway                   | 11.994            | 11.994          | 0                  | 0.0                        | 0.0                    | 0.0                 | 0.0              | 0.0      | 0.0                 | 0.0                 | 0.0                     | 0.0     |
| Eastbound State Route 91 On-Ramp from Atlantic Avenue                               | 12.240            | 12.240          | 9                  | 0.0                        | 0.0                    | 0.0                 | 22.2             | 44.4     | 11.1                | 0.0                 | 11.1                    | 11.1    |
| Eastbound State Route 91 Off-Ramp to<br>Cherry Avenue                               | 12.968            | 12.968          | 8                  | 0.0                        | 0.0                    | 12.5                | 12.5             | 37.5     | 25.0                | 0.0                 | 12.5                    | 0.0     |
| Eastbound State Route 91 On-Ramp from<br>Cherry Avenue                              | 13.263            | 13.263          | 9                  | 0.0                        | 0.0                    | 0.0                 | 22.2             | 22.2     | 33.3                | 0.0                 | 0.0                     | 22.2    |
| Long Beach Boulevard to I-710<br>Interchange (Mainline)                             | 13.452            | 13.452          | 16                 | 6.3                        | 6.3                    | 6.3                 | 0.0              | 37.5     | 37.5                | 0.0                 | 6.2                     | 0.0     |

Source: Caltrans Traffic Accident Surveillance and Analysis System (TASAS) Database; Intueor Consulting, 2020



| ID | Intersection                                              | Control<br>Type | A.M. Peak<br>Hour Delay | A.M. Peak<br>Hour Level of<br>Service | P.M. Peak<br>Hour<br>Delay | P.M. Peak<br>Hour Level of<br>Service |
|----|-----------------------------------------------------------|-----------------|-------------------------|---------------------------------------|----------------------------|---------------------------------------|
| 1  | Long Beach Boulevard/State<br>Route 91 Westbound<br>Ramps | Signalized      | 100.5                   | F                                     | 42.8                       | D                                     |
| 2  | Long Beach Boulevard/State<br>Route 91 Eastbound Ramps    | Signalized      | 33.6                    | С                                     | 36.4                       | D                                     |
| 3  | Atlantic Avenue/68th Street                               | 2-Way<br>Stop   | >300.0                  | F                                     | 221.3                      | F                                     |
| 4  | Atlantic Avenue/State Route<br>91 Westbound Ramps         | Signalized      | 18.7                    | В                                     | 27.9                       | С                                     |
| 5  | Atlantic Avenue/State Route<br>91 Eastbound Ramps         | Signalized      | 18.9                    | В                                     | 40.8                       | D                                     |
| 6  | Atlantic Avenue/Artesia<br>Boulevard                      | Signalized      | 48.2                    | D                                     | 52.0                       | D                                     |
| 7  | Orange Avenue/68th Street                                 | 2-Way<br>Stop   | 29.8                    | D                                     | 32.0                       | D                                     |
| 8  | Orange Avenue/67th Street                                 | Signalized      | 6.2                     | А                                     | 5.6                        | A                                     |
| 9  | Orange Avenue/Artesia<br>Boulevard                        | Signalized      | 43.0                    | D                                     | 36.3                       | D                                     |
| 10 | Cherry Avenue/68th Street                                 | Signalized      | 37.8                    | D                                     | 42.3                       | D                                     |
| 11 | Cherry Avenue/State Route<br>91 Westbound Ramps           | Signalized      | 34.1                    | С                                     | 40.6                       | D                                     |
| 12 | Cherry Avenue/State Route<br>91 Eastbound Ramps           | Signalized      | 24.3                    | С                                     | 19.3                       | В                                     |
| 13 | Cherry Ave/Artesia<br>Boulevard                           | Signalized      | 51.1                    | D                                     | 51.5                       | D                                     |
| 14 | Paramount Boulevard/State<br>Route 91 Westbound<br>Ramps  | Signalized      | 26.6                    | С                                     | 27.7                       | С                                     |
| 15 | Paramount Boulevard State<br>Route 91 Eastbound Ramps     | Signalized      | 27.8                    | С                                     | 26.4                       | С                                     |

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020) Notes: Control Delay (i.e., Peak Hour Delay) is in seconds per vehicle.

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

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Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

### **PUBLIC TRANSIT**

Existing bus routes in the Project Study Area are shown in **Figure 9**. The Project Study Area includes the following bus routes traveling east-west on Artesia Boulevard and north-south on Atlantic Avenue, Orange Avenue, Cherry Avenue, and Paramount Boulevard:

- Long Beach Transit Routes 21, 61, 71
- Metro Routes 130, 260, 265, 762

### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. This alternative would maintain the current configuration of the existing freeway, ramps, and local intersections within the Project limits. The Eastbound State Route 91 facility would continue to have five mixed flow lanes and one HOV lane. The No Build alternative would not address the purpose and need of the proposed Project and serves mainly as a baseline to compare with the Build Alternative under NEPA.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

### Project Construction

Construction of the Build Alternative could result in reduced access and increased congestion from temporary construction traffic and staging, freeway mainline and ramp closures on Eastbound State Route 91, and local street closures during short-term periods. Project construction would last approximately two years. Partial closures of ramps, where one lane would be closed at a time, would be required during Project construction; details of partial closures would be finalized during the Plans, Specifications, and Estimates Phase of the Project.

Full closures of the following ramps would occur for a time frame of approximately 55 hours to less than ten days: State Route 91/Atlantic Avenue Eastbound off-ramp, State Route 91/Atlantic Avenue Eastbound on-ramp, and State Route 91/Cherry Avenue Eastbound on-ramp. No consecutive ramps would be closed simultaneously. A full closure of the I-710/Atlantic Avenue Southbound off-ramp is anticipated to occur for approximately 6 months; however, adequate detours would be provided. A Traffic Management Plan would be implemented, which would identify alternate routes, detours, and access points for motorists (see **PF-COM-2** below under Avoidance, Minimization, and/or Mitigation Measures). A Traffic Management Plan is a standard design element for most Caltrans projects. Where feasible, new facilities would be constructed prior to freeway mainline or ramp closures to maintain existing traffic. A Construction Staging Plan would also be implemented to provide continuous, uninterrupted access to State Route 91 and the local interchanges for the duration of construction (see **PF-COM-3** below under Avoidance, Minimization, and/or Mitigation Measures).

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### Figure 9: Bus Routes



Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI

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Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI

As detailed in the Traffic Management Plan (TRC, 2020), detour routes would be implemented during closures of the Southbound I-710 off-ramp to Atlantic Avenue, Eastbound State Route 91 on- and off-ramps to Atlantic Avenue, and Eastbound State Route 91 off-ramp to Cherry Avenue (please refer to Appendix E of the Traffic Management Plan for additional information). Consideration would be provided for local streets and access so that disruption to residences and businesses would be minimal. With implementation of the Construction Staging Plan and the detour routes identified in the Traffic Management Plan, access throughout the Project Area would be maintained for the duration of construction.

### Traffic Operations

During operation, the Project would reduce congestion and improve freeway operations on Eastbound State Route 91 for both the mainline and ramps. **Table 19** through **Table 22** show a comparison of Alternative 1 (No Build Alternative) and Alternative 2 (Build Alternative) for the Opening Year (2024) and Horizon Year (2045). **Table 19** and **Table 21** show the following observations with regard to the Basic Freeway analysis:

- In the Build, compared to the No Build, operations as measured by level of service improved
  or stayed the same. In the segments where it stayed the same, the densities decreased
  within the Project limits and as expected, nominally increased as the proposed Project
  merges with the existing condition. However, these nominal increases in density do not
  translate to a change in forecasted speeds.
- In the Build, compared to the No Build, the forecasted densities are reduced within the basic freeway analysis segments within the Project limits. Similarly, in the Build, compared to the No Build, the forecasted speeds increased within the Basic Freeway Analysis segments within the Project limits. In the aggregate, the Basic Freeway Analysis demonstrates the Project benefits with regard to level of service and density, with speeds increasing by up to 16 percent in the P.M. peak hour within the Project limits.

 Table 20 and Table 22 show the following observations with regard to the HOV Lane Analysis:

- In the Build, compared to the No Build, the forecasted level of service stayed the same, but densities stayed the same or decreased and speeds stayed the same or increased in all segments analyzed.
- In the Build, compared to the No Build, the forecasted densities stayed the same or are reduced within the HOV lane segments within the Project limits and easterly within the Study Area.
- In the Build, compared to the No Build, the forecasted speeds stayed the same or increased within the HOV lane segments within the Project limits and easterly within the Study Area.
- Similar to the Basic Freeway Analysis, in the aggregate, the HOV Lane Analysis demonstrates the Project benefits with regard to level of service and density, with speeds increasing by up to 5 percent in the P.M. peak hour within the Project limits.

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Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

| ID | Segment                                                        | Segment Type             | Peak Hour | No Build<br>Speed<br>(mile per<br>hour) | No Build<br>Density<br>(pc/mi/In) | No Build<br>Level Of<br>Service | Build Speed<br>(mile per hour) | Build<br>Density<br>(pc/mi/ln) | Build Level of<br>Service | With And<br>Without Project<br>Comparison<br>Speed<br>(mile per hour) | With And<br>Without Project<br>Comparison<br>Density<br>(pc/mi/In) |
|----|----------------------------------------------------------------|--------------------------|-----------|-----------------------------------------|-----------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
| 1  | West of I-710 Northbound Connector                             | Basic Freeway<br>Segment | A.M.      | 67.0                                    | 12.2                              | В                               | 70.0                           | 11.9                           | В                         | 3.0                                                                   | -0.2                                                               |
| 2  | I-710 Northbound Connector to I-710 Southbound<br>Connector    | Basic Freeway<br>Segment | A.M.      | 62.0                                    | 19.7                              | С                               | 65.0                           | 19.3                           | С                         | 3.0                                                                   | -0.4                                                               |
| 3  | I-710 Southbound Connector to Atlantic Avenue On-<br>Ramp      | Basic Freeway<br>Segment | A.M.      | 57.0                                    | 24.6                              | С                               | 60.0                           | 20.1                           | С                         | 3.0                                                                   | -4.6                                                               |
| 4  | Atlantic Avenue On-Ramp to Cherry Avenue Off-Ramp              | Weaving<br>Segment       | A.M.      | 54.0                                    | 28.3                              | С                               | 59.0                           | 22.2                           | С                         | 5.0                                                                   | -6.1                                                               |
| 5  | Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                | Basic Freeway<br>Segment | A.M.      | 54.0                                    | 30.8                              | D                               | 54.0                           | 31.7                           | D                         | 0.0                                                                   | 0.9                                                                |
| 6  | Cherry Avenue On-Ramp to Paramount Boulevard Off-<br>Ramp      | Weaving<br>Segment       | A.M.      | 54.0                                    | 28.0                              | D                               | 54.0                           | 28.8                           | D                         | 0.0                                                                   | 0.7                                                                |
| 7  | Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp | Basic Freeway<br>Segment | A.M.      | 56.0                                    | 30.5                              | D                               | 56.0                           | 31.4                           | D                         | 0.0                                                                   | 0.9                                                                |
| 8  | East of Paramount Boulevard On-Ramp                            | Basic Freeway<br>Segment | A.M.      | 54.0                                    | 27.0                              | D                               | 54.0                           | 27.7                           | D                         | 0.0                                                                   | 0.8                                                                |
| 1  | West of I-710 Northbound Connector                             | Basic Freeway<br>Segment | P.M.      | 37.0                                    | 30.4                              | D                               | 43.0                           | 27.0                           | D                         | 6.0                                                                   | -3.5                                                               |
| 2  | I-710 Northbound Connector to I-710 Southbound<br>Connector    | Basic Freeway<br>Segment | P.M.      | 30.0                                    | 45.1                              | F                               | 34.0                           | 40.9                           | E                         | 4.0                                                                   | -4.1                                                               |
| 3  | I-710 Southbound Connector to Atlantic Avenue On-<br>Ramp      | Basic Freeway<br>Segment | P.M.      | 23.0                                    | 67.4                              | F                               | 25.0                           | 53.2                           | F                         | 2.0                                                                   | -14.2                                                              |
| 4  | Atlantic Avenue On-Ramp to Cherry Avenue Off-Ramp              | Weaving<br>Segment       | P.M.      | 34.0                                    | 50.3                              | F                               | 39.0                           | 37.7                           | E                         | 5.0                                                                   | -12.7                                                              |
| 5  | Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                | Basic Freeway<br>Segment | P.M.      | 34.0                                    | 59.4                              | F                               | 34.0                           | 61.2                           | F                         | 0.0                                                                   | 1.8                                                                |
| 6  | Cherry Avenue On-Ramp to Paramount Boulevard Off-<br>Ramp      | Weaving<br>Segment       | P.M.      | 34.0                                    | 52.8                              | F                               | 34.0                           | 54.2                           | F                         | 0.0                                                                   | 1.4                                                                |
| 7  | Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp | Basic Freeway<br>Segment | P.M.      | 45.0                                    | 46.9                              | F                               | 45.0                           | 48.3                           | F                         | 0.0                                                                   | 1.4                                                                |
| 8  | East of Paramount Boulevard On-Ramp                            | Basic Freeway<br>Segment | P.M.      | 40.0                                    | 45.1                              | F                               | 40.0                           | 46.3                           | F                         | 0.0                                                                   | 1.2                                                                |

### Table 19: Comparison of Freeway Mainline and Weaving Analysis – Opening Year (2024)

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020) Notes: I-710 = Interstate 710; pc/mi/ln = passenger cars per mile per lane

## Table 20: Comparison of HOV Lane Analysis – Opening Year (2024)

| ID | Segment                                                        | Segment Type             | Peak Hour | No Build<br>Speed<br>(mile per hour | No Build<br>Density<br>(pc/mi/In) | No Build<br>Level Of<br>Service | Build Speed<br>(mile per hour) | Build<br>Density<br>(pc/mi/ln) | Build Level of<br>Service | With And<br>Without Project<br>Comparison<br>Speed<br>(mile per hour) | With And<br>Without Project<br>Comparison<br>Density<br>(pc/mi/ln) |
|----|----------------------------------------------------------------|--------------------------|-----------|-------------------------------------|-----------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
| 1  | West of I-710 Northbound Connector                             | Basic Freeway<br>Segment | A.M.      | 63.0                                | 10.7                              | А                               | 63.0                           | 10.7                           | А                         | 0.0                                                                   | 0.0                                                                |
| 2  | I-710 Northbound Connector to I-710 Southbound<br>Connector    | Basic Freeway<br>Segment | A.M.      | 63.0                                | 10.7                              | А                               | 63.0                           | 10.7                           | А                         | 0.0                                                                   | 0.0                                                                |
| 3  | I-710 Southbound Connector to Atlantic Avenue On-<br>Ramp      | Basic Freeway<br>Segment | A.M.      | 63.0                                | 10.7                              | А                               | 63.0                           | 10.7                           | А                         | 0.0                                                                   | 0.0                                                                |
| 4  | Atlantic Avenue On-Ramp to Cherry Avenue Off-Ramp              | Weaving<br>Segment       | A.M.      | 57.0                                | 22.1                              | С                               | 57.0                           | 19.5                           | С                         | 0.0                                                                   | -2.6                                                               |
| 5  | Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                | Basic Freeway<br>Segment | A.M.      | 57.0                                | 18.5                              | С                               | 57.0                           | 18.5                           | С                         | 0.0                                                                   | 0.0                                                                |
| 6  | Cherry Avenue On-Ramp to Paramount Boulevard Off-<br>Ramp      | Weaving<br>Segment       | A.M.      | 57.0                                | 18.5                              | С                               | 57.0                           | 18.5                           | С                         | 0.0                                                                   | 0.0                                                                |
| 7  | Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp | Basic Freeway<br>Segment | A.M.      | 57.0                                | 18.5                              | С                               | 57.0                           | 18.5                           | С                         | 0.0                                                                   | 0.0                                                                |
| 8  | East of Paramount Boulevard On-Ramp                            | Basic Freeway<br>Segment | A.M.      | 57.0                                | 18.5                              | С                               | 57.0                           | 18.5                           | С                         | 0.0                                                                   | 0.0                                                                |
| 1  | West of I-710 Northbound Connector                             | Basic Freeway<br>Segment | P.M.      | 20.0                                | 75.4                              | F                               | 21.0                           | 71.8                           | F                         | 1.0                                                                   | -3.6                                                               |
| 2  | I-710 Northbound Connector to I-710 Southbound<br>Connector    | Basic Freeway<br>Segment | P.M.      | 20.0                                | 75.4                              | F                               | 21.0                           | 71.8                           | F                         | 1.0                                                                   | -3.6                                                               |
| 3  | I-710 Southbound Connector to Atlantic Avenue On-<br>Ramp      | Basic Freeway<br>Segment | P.M.      | 20.0                                | 75.4                              | F                               | 21.0                           | 71.8                           | F                         | 1.0                                                                   | -3.6                                                               |
| 4  | Atlantic Avenue On-Ramp to Cherry Avenue Off-Ramp              | Weaving<br>Segment       | P.M.      | 28.0                                | 56.9                              | F                               | 29.0                           | 48.3                           | F                         | 1.0                                                                   | -8.6                                                               |
| 5  | Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                | Basic Freeway<br>Segment | P.M.      | 28.0                                | 56.2                              | F                               | 29.0                           | 54.2                           | F                         | 1.0                                                                   | -2.0                                                               |
| 6  | Cherry Avenue On-Ramp to Paramount Boulevard Off-<br>Ramp      | Weaving<br>Segment       | P.M.      | 28.0                                | 56.2                              | F                               | 29.0                           | 54.2                           | F                         | 1.0                                                                   | -2.0                                                               |
| 7  | Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp | Basic Freeway<br>Segment | P.M.      | 28.0                                | 56.2                              | F                               | 29.0                           | 54.2                           | F                         | 1.0                                                                   | -2.0                                                               |
| 8  | East of Paramount Boulevard On-Ramp                            | Basic Freeway<br>Segment | P.M.      | 28.0                                | 56.2                              | F                               | 29.0                           | 54.2                           | F                         | 1.0                                                                   | -2.0                                                               |

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020) Notes: I-710 = Interstate 710; HOV = High-Occupancy Vehicle; pc/mi/ln = passenger cars per mile per lane

| ID | Segment                                                        | Segment Type             | Peak Hour | No Build<br>Speed<br>(mile per hour | No Build<br>Density<br>(pc/mi/ln) | No Build<br>Level Of<br>Service | Build Speed<br>(mile per hour) | Build<br>Density<br>(pc/mi/ln) | Build Level of<br>Service | With And<br>Without Project<br>Comparison<br>Speed<br>(mile per hour) | With And<br>Without Project<br>Comparison<br>Density<br>(pc/mi/ln) |
|----|----------------------------------------------------------------|--------------------------|-----------|-------------------------------------|-----------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
| 1  | West of I-710 Northbound Connector                             | Basic Freeway<br>Segment | A.M.      | 67.0                                | 13.0                              | В                               | 70.0                           | 12.7                           | В                         | 3.0                                                                   | -0.2                                                               |
| 2  | I-710 Northbound Connector to I-710 Southbound<br>Connector    | Basic Freeway<br>Segment | A.M.      | 62.0                                | 20.7                              | С                               | 65.0                           | 20.3                           | С                         | 3.0                                                                   | -0.4                                                               |
| 3  | I-710 Southbound Connector to Atlantic Avenue On-<br>Ramp      | Basic Freeway<br>Segment | A.M.      | 57.0                                | 26.3                              | D                               | 60.0                           | 21.4                           | С                         | 3.0                                                                   | -4.9                                                               |
| 4  | Atlantic Avenue On-Ramp to Cherry Avenue Off-Ramp              | Weaving<br>Segment       | A.M.      | 54.0                                | 30.0                              | D                               | 59.0                           | 23.6                           | С                         | 5.0                                                                   | -6.5                                                               |
| 5  | Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                | Basic Freeway<br>Segment | A.M.      | 54.0                                | 32.5                              | D                               | 54.0                           | 33.5                           | D                         | 0.0                                                                   | 1.0                                                                |
| 6  | Cherry Avenue On-Ramp to Paramount Boulevard Off-<br>Ramp      | Weaving<br>Segment       | A.M.      | 54.0                                | 29.5                              | D                               | 54.0                           | 30.3                           | D                         | 0.0                                                                   | 0.8                                                                |
| 7  | Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp | Basic Freeway<br>Segment | A.M.      | 56.0                                | 32.3                              | D                               | 56.0                           | 33.2                           | D                         | 0.0                                                                   | 0.9                                                                |
| 8  | East of Paramount Boulevard On-Ramp                            | Basic Freeway<br>Segment | A.M.      | 54.0                                | 28.6                              | D                               | 54.0                           | 29.3                           | D                         | 0.0                                                                   | 0.8                                                                |
| 1  | West of I-710 Northbound Connector                             | Basic Freeway<br>Segment | P.M.      | 37.0                                | 30.6                              | D                               | 43.0                           | 27.1                           | D                         | 6.0                                                                   | -3.5                                                               |
| 2  | I-710 Northbound Connector to I-710 Southbound<br>Connector    | Basic Freeway<br>Segment | P.M.      | 30.0                                | 46.2                              | F                               | 34.0                           | 42.0                           | Е                         | 4.0                                                                   | -4.2                                                               |
| 3  | I-710 Southbound Connector to Atlantic Avenue On-<br>Ramp      | Basic Freeway<br>Segment | P.M.      | 23.0                                | 70.2                              | F                               | 25.0                           | 55.4                           | F                         | 2.0                                                                   | -14.8                                                              |
| 4  | Atlantic Avenue On-Ramp to Cherry Avenue Off-Ramp              | Weaving<br>Segment       | P.M.      | 34.0                                | 52.3                              | F                               | 39.0                           | 39.2                           | Е                         | 5.0                                                                   | -13.2                                                              |
| 5  | Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                | Basic Freeway<br>Segment | P.M.      | 34.0                                | 61.8                              | F                               | 34.0                           | 63.6                           | F                         | 0.0                                                                   | 1.9                                                                |
| 6  | Cherry Avenue On-Ramp to Paramount Boulevard Off-<br>Ramp      | Weaving<br>Segment       | P.M.      | 34.0                                | 55.0                              | F                               | 34.0                           | 56.5                           | F                         | 0.0                                                                   | 1.5                                                                |
| 7  | Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp | Basic Freeway<br>Segment | P.M.      | 45.0                                | 48.6                              | F                               | 45.0                           | 50.1                           | F                         | 0.0                                                                   | 1.4                                                                |
| 8  | East of Paramount Boulevard On-Ramp                            | Basic Freeway<br>Segment | P.M.      | 40.0                                | 47.0                              | F                               | 40.0                           | 48.3                           | F                         | 0.0                                                                   | 1.3                                                                |

### Table 21: Comparison of Freeway Mainline and Weaving Analysis – Horizon Year (2045)

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020) Notes: I-710 = Interstate 710; pc/mi/ln = passenger cars per mile per lane

## Table 22: Comparison of HOV Lane Analysis – Horizon Year (2045)

| ID | Segment                                                        | Segment Type             | Peak Hour | No Build<br>Speed<br>(mile per hour | No Build<br>Density<br>(pc/mi/ln) | No Build<br>Level Of<br>Service | Build Speed<br>(mile per hour) | Build<br>Density<br>(pc/mi/ln) | Build Level of<br>Service | With And<br>Without Project<br>Comparison<br>Speed<br>(mile per hour) | With And<br>Without Project<br>Comparison<br>Density<br>(pc/mi/In) |
|----|----------------------------------------------------------------|--------------------------|-----------|-------------------------------------|-----------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
| 1  | West of I-710 Northbound Connector                             | Basic Freeway<br>Segment | A.M.      | 63.0                                | 10.8                              | A                               | 63.0                           | 10.8                           | А                         | 0.0                                                                   | 0.0                                                                |
| 2  | I-710 Northbound Connector to I-710 Southbound<br>Connector    | Basic Freeway<br>Segment | A.M.      | 63.0                                | 10.8                              | A                               | 63.0                           | 10.8                           | А                         | 0.0                                                                   | 0.0                                                                |
| 3  | I-710 Southbound Connector to Atlantic Avenue On-<br>Ramp      | Basic Freeway<br>Segment | A.M.      | 63.0                                | 10.8                              | A                               | 63.0                           | 10.8                           | А                         | 0.0                                                                   | 0.0                                                                |
| 4  | Atlantic Avenue On-Ramp to Cherry Avenue Off-Ramp              | Weaving<br>Segment       | A.M.      | 57.0                                | 22.7                              | С                               | 57.0                           | 19.9                           | С                         | 0.0                                                                   | -2.8                                                               |
| 5  | Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                | Basic Freeway<br>Segment | A.M.      | 57.0                                | 18.7                              | С                               | 57.0                           | 18.7                           | С                         | 0.0                                                                   | 0.0                                                                |
| 6  | Cherry Avenue On-Ramp to Paramount Boulevard Off-<br>Ramp      | Weaving<br>Segment       | A.M.      | 57.0                                | 18.7                              | С                               | 57.0                           | 18.7                           | С                         | 0.0                                                                   | 0.0                                                                |
| 7  | Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp | Basic Freeway<br>Segment | A.M.      | 57.0                                | 18.7                              | С                               | 57.0                           | 18.7                           | С                         | 0.0                                                                   | 0.0                                                                |
| 8  | East of Paramount Boulevard On-Ramp                            | Basic Freeway<br>Segment | A.M.      | 57.0                                | 18.7                              | С                               | 57.0                           | 18.7                           | С                         | 0.0                                                                   | 0.0                                                                |
| 1  | West of I-710 Northbound Connector                             | Basic Freeway<br>Segment | P.M.      | 20.0                                | 76.1                              | F                               | 21.0                           | 72.5                           | F                         | 1.0                                                                   | -3.6                                                               |
| 2  | I-710 Northbound Connector to I-710 Southbound<br>Connector    | Basic Freeway<br>Segment | P.M.      | 20.0                                | 76.1                              | F                               | 21.0                           | 72.5                           | F                         | 1.0                                                                   | -3.6                                                               |
| 3  | I-710 Southbound Connector to Atlantic Avenue On-<br>Ramp      | Basic Freeway<br>Segment | P.M.      | 20.0                                | 76.1                              | F                               | 21.0                           | 72.5                           | F                         | 1.0                                                                   | -3.6                                                               |
| 4  | Atlantic Avenue On-Ramp to Cherry Avenue Off-Ramp              | Weaving<br>Segment       | P.M.      | 28.0                                | 57.7                              | F                               | 29.0                           | 48.9                           | F                         | 1.0                                                                   | -8.7                                                               |
| 5  | Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                | Basic Freeway<br>Segment | P.M.      | 28.0                                | 56.8                              | F                               | 29.0                           | 54.8                           | F                         | 1.0                                                                   | -2.0                                                               |
| 6  | Cherry Avenue On-Ramp to Paramount Boulevard Off-<br>Ramp      | Weaving<br>Segment       | P.M.      | 28.0                                | 56.8                              | F                               | 29.0                           | 54.8                           | F                         | 1.0                                                                   | -2.0                                                               |
| 7  | Paramount Boulevard Off-Ramp to Paramount<br>Boulevard On-Ramp | Basic Freeway<br>Segment | P.M.      | 28.0                                | 56.8                              | F                               | 29.0                           | 54.8                           | F                         | 1.0                                                                   | -2.0                                                               |
| 8  | East of Paramount Boulevard On-Ramp                            | Basic Freeway<br>Segment | P.M.      | 28.0                                | 56.8                              | F                               | 29.0                           | 54.8                           | F                         | 1.0                                                                   | -2.0                                                               |

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020) Notes: I-710 = Interstate 710; HOV = High-Occupancy Vehicle; pc/mi/ln = passenger cars per mile per lane

**Table 19** and **Table 21** show the following observations with regard to the Weaving Segments

 Analysis:

- In the Build, compared to the No Build, 2 of the 3 segments analyzed show a reduction in density and an increase in forecasted speeds.
- There is a slight increase in density at the eastern terminus of the Project where it ties into the existing condition. However, these nominal increases in density do not translate to a change in forecasted speeds.
- Similar to the Basic Freeway and HOV Lane Analysis, in the aggregate, the Weaving Segments Analysis demonstrates the Project benefits with regard to LOS and density, with speeds increasing by up to 15 percent in the P.M. peak hour within the Project limits.

The comparison above shows that the Build Alternative traffic operations on Eastbound State Route 91 from the Northbound I-710 connector on-ramp to the Cherry Avenue off-ramp will improve from the No Build Alternative operating conditions as a result of the proposed auxiliary lane improvements. This is noted by the decrease in densities and increase in speeds in the Basic Freeway Analysis comparison above.

Additionally, the proposed Project improves P.M. peak hour HOV lane operations within the Study Area. The proposed extension of the HOV ingress/egress opening to the west and east of its current opening location will provide additional and earlier access to and from the HOV lane and an opportunity for HOV vehicles to more easily weave to and from the ramps over a longer distance. This is noted by the decrease in densities and increase in speeds in the HOV Lane Analysis comparison above.

These demonstrated improvements will help alleviate vehicular congestion, assist in potentially reducing congestion related accidents, and enhance mobility on the Eastbound State Route 91 freeway segment from the Northbound I-710 connector on-ramp to the Cherry Avenue off-ramp. Furthermore, the addition of the auxiliary lane in this area is anticipated to increase weaving length, reduce overall vehicular queues, and improve operational safety. This is noted by the decrease in densities and increase in speeds in the Weaving Segment Analysis comparison above.

In addition, the Build Alternative addresses the Atlantic Avenue on-ramp vehicle storage length issue by both lengthening and extending the ramp meter limit line 500 feet to the east of its current location. Consequently, the available vehicular storage length increases to 780 feet per lane from its current length of 280 feet per lane. This proposed improvement provides adequate vehicular storage length to accommodate the forecasted P.M. peak hour on-ramp traffic volume in the horizon year (2045). Hence, current spillover of vehicular queues to the ramp terminus intersection and the adjacent local street, due to the lack of adequate on-ramp storage, will be minimized.

In comparison to existing year 2019/baseline conditions, Opening Year 2024 delay and level of service at intersections will not significantly change, as shown in **Table 23**. As demonstrated in **Table 24**, traffic volumes are not predicted to significantly change. Average daily traffic and truck volumes for Opening Year (2024) compared to the No Build Condition show an increase in truck traffic from zero percent to three percent for all project segments.

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

### Table 23: Comparison of Intersection Levels of Service – Opening Year 2024

| ID | Intersection                                              | Peak<br>Hour | Existing<br>Delay | Existing<br>Level of<br>Service | No<br>Build<br>Delay | No Build<br>Level of<br>Service | Build<br>Delay | Build<br>Level of<br>Service |
|----|-----------------------------------------------------------|--------------|-------------------|---------------------------------|----------------------|---------------------------------|----------------|------------------------------|
| 1  | Long Beach<br>Boulevard/State Route 91<br>Westbound Ramps | A.M.         | 100.5             | F                               | 101.2                | F                               | 101.2          | F                            |
|    | Long Beach<br>Boulevard/State Route 91<br>Westbound Ramps | P.M.         | 42.8              | D                               | 44.8                 | D                               | 44.8           | D                            |
| 2  | Long Beach<br>Boulevard/State Route 91<br>Eastbound Ramps | A.M.         | 33.6              | С                               | 34.5                 | С                               | 34.5           | С                            |
| 2  | Long Beach<br>Boulevard/State Route 91<br>Eastbound Ramps | P.M.         | 36.4              | D                               | 36.7                 | D                               | 36.7           | D                            |
| 3  | Atlantic Avenue/68 <sup>th</sup> Street                   | A.M.         | >300.0            | F                               | >300.<br>0           | F                               | >300.0         | F                            |
|    | Atlantic Avenue/68th Street                               | P.M.         | 221.3             | F                               | 266.8                | F                               | 266.8          | F                            |
| 4  | Atlantic Avenue/State<br>Route 91 Westbound<br>Ramps      | A.M.         | 18.7              | В                               | 19.1                 | В                               | 19.1           | В                            |
| 4  | Atlantic Avenue/State<br>Route 91 Westbound<br>Ramps      | P.M.         | 27.9              | С                               | 29.3                 | С                               | 29.3           | С                            |
| _  | Atlantic Avenue/State<br>Route 91 Eastbound<br>Ramps      | A.M.         | 18.9              | В                               | 18.8                 | В                               | 18.6           | В                            |
| 5  | Atlantic Avenue/State<br>Route 91 Eastbound<br>Ramps      | P.M.         | 40.8              | D                               | 40.5                 | D                               | 42.3           | D                            |
|    | Atlantic Avenue/Artesia<br>Boulevard                      | A.M.         | 48.2              | D                               | 51                   | D                               | 51             | D                            |
| 6  | Atlantic Avenue/Artesia<br>Boulevard                      | P.M.         | 52                | D                               | 53.6                 | D                               | 53.6           | D                            |
| 7  | Orange Avenue/68 <sup>th</sup><br>Street                  | A.M.         | 29.8              | D                               | 32.0                 | D                               | 32.0           | D                            |
|    | Orange Avenue/68 <sup>th</sup><br>Street                  | P.M.         | 32                | D                               | 33.7                 | D                               | 33.7           | D                            |
|    | Orange Avenue/67 <sup>th</sup><br>Street                  | A.M.         | 6.2               | A                               | 6.2                  | A                               | 6.2            | A                            |
| 8  | Orange Avenue/67 <sup>th</sup><br>Street                  | P.M.         | 5.6               | A                               | 5.6                  | A                               | 5.6            | A                            |
| 0  | Orange Avenue/Artesia<br>Boulevard                        | A.M.         | 43                | D                               | 44.1                 | D                               | 44.1           | D                            |
| 9  | Orange Avenue/Artesia<br>Boulevard                        | P.M.         | 36.3              | D                               | 36.9                 | D                               | 36.9           | D                            |
| 10 | Cherry Avenue/68th Street                                 | A.M.         | 37.8              | D                               | 38.2                 | D                               | 38.2           | D                            |
| 10 | Cherry Avenue/68th Street                                 | P.M.         | 42.3              | D                               | 42.6                 | D                               | 42.6           | D                            |

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|    | Intersection                                             | Peak<br>Hour | Existing<br>Delay | Existing<br>Level of<br>Service | No<br>Build<br>Delay | No Build<br>Level of<br>Service | Build<br>Delay | Build<br>Level of<br>Service |
|----|----------------------------------------------------------|--------------|-------------------|---------------------------------|----------------------|---------------------------------|----------------|------------------------------|
| 11 | Cherry Avenue/State<br>Route 91 Westbound<br>Ramps       | A.M.         | 34.1              | С                               | 34.3                 | С                               | 34.4           | С                            |
|    | Cherry Avenue/State<br>Route 91 Westbound<br>Ramps       | P.M.         | 40.6              | D                               | 40.8                 | D                               | 40.9           | D                            |
| 10 | Cherry Avenue/State<br>Route 91 Eastbound<br>Ramps       | A.M.         | 24.3              | С                               | 24.5                 | С                               | 24.7           | С                            |
| 12 | Cherry Avenue/State<br>Route 91 Eastbound<br>Ramps       | P.M.         | 19.3              | В                               | 19.4                 | В                               | 19.6           | В                            |
| 10 | Cherry Avenue/Artesia<br>Boulevard                       | A.M.         | 51.1              | D                               | 53.6                 | D                               | 53.6           | D                            |
| 13 | Cherry Avenue/Artesia<br>Boulevard                       | P.M.         | 51.5              | D                               | 52.9                 | D                               | 52.9           | D                            |
| 14 | Paramount<br>Boulevard/State Route<br>91 Westbound Ramps | A.M.         | 26.6              | С                               | 26.9                 | С                               | 26.9           | С                            |
| 14 | Paramount<br>Boulevard/State Route<br>91 Westbound Ramps | P.M.         | 27.7              | С                               | 27.6                 | С                               | 27.6           | С                            |
| 15 | Paramount<br>Boulevard/State Route<br>91 Eastbound Ramps | A.M.         | 27.8              | С                               | 27.9                 | С                               | 27.9           | С                            |
| 10 | Paramount<br>Boulevard/State Route<br>91 Eastbound Ramps | P.M.         | 26.4              | С                               | 26.7                 | С                               | 26.7           | С                            |

### Table 23: Comparison of Intersection Levels of Service – Opening Year 2024 (Continued)

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020)

Notes: Delay is expressed in seconds per vehicle.

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Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

### Table 24: Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes – Opening Year 2024

| Segment                                                                                                             | No Build<br>Average<br>Daily Traffic<br>Volumes<br>(Total<br>Vehicle) | No Build<br>Average<br>Daily Traffic<br>Volumes<br>(Truck) | No Build<br>Average<br>Daily Traffic<br>Volumes<br>(Truck %) | Build<br>Average<br>Daily Traffic<br>Volumes<br>(Total<br>Vehicle) | Build<br>Average<br>Daily Traffic<br>Volumes<br>(Truck) | Build<br>Average<br>Daily Traffic<br>Volumes<br>(Truck %) | Build Change in<br>Conditions<br>Compared to<br>Existing (Total<br>Vehicle) | Build Change in<br>Conditions<br>Compared to<br>Existing (Truck) | Build Change in<br>Conditions<br>Compared to<br>Existing<br>(Truck %) | Build Change in<br>Conditions<br>Compared to No<br>Build (Total<br>Vehicle) | Build Change in<br>Conditions<br>Compared to No<br>Build (Truck) | Build Change in<br>Conditions<br>Compared to No<br>Build (Truck %) |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|
| Eastbound State Route 91 HOV Lane at I-710                                                                          | 14,745                                                                | 0                                                          | 0%                                                           | 14,745                                                             | 0                                                       | 0%                                                        | 37                                                                          | 0                                                                | 0%                                                                    | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound State Route 91 at I-710                                                                                   | 29,274                                                                | 1,171                                                      | 4%                                                           | 30,082                                                             | 1,203                                                   | 4%                                                        | 783                                                                         | 31                                                               | 3%                                                                    | 808                                                                         | 32                                                               | 3%                                                                 |
| I-710 Northbound to State Route 91<br>Eastbound Ramp Direct Connector                                               | 39,115                                                                | 2,738                                                      | 7%                                                           | 40,301                                                             | 2,821                                                   | 7%                                                        | 1,553                                                                       | 109                                                              | 4%                                                                    | 1,186                                                                       | 83                                                               | 3%                                                                 |
| Eastbound State Route 91 between I-<br>710 Northbound Direct Connector<br>and I-710 Southbound Direct<br>Connector  | 68,389                                                                | 3,419                                                      | 5%                                                           | 70,383                                                             | 3,519                                                   | 5%                                                        | 2,336                                                                       | 117                                                              | 3%                                                                    | 1,994                                                                       | 100                                                              | 3%                                                                 |
| I-710 Southbound to State Route 91<br>Eastbound Ramp Direct Connector                                               | 35,224                                                                | 2,466                                                      | 7%                                                           | 36,292                                                             | 2,540                                                   | 7%                                                        | 1,069                                                                       | 75                                                               | 3%                                                                    | 1,068                                                                       | 75                                                               | 3%                                                                 |
| Eastbound State Route 91 between I-<br>710 Southbound Direct Connector<br>and Eastbound Atlantic Avenue On-<br>ramp | 103,613                                                               | 12,434                                                     | 12%                                                          | 106,675                                                            | 12,801                                                  | 12%                                                       | 3,405                                                                       | 1,441                                                            | 13%                                                                   | 3,062                                                                       | 367                                                              | 3%                                                                 |
| Eastbound Atlantic Avenue On-ramp                                                                                   | 11,716                                                                | 351                                                        | 3%                                                           | 12,071                                                             | 362                                                     | 3%                                                        | 437                                                                         | 13                                                               | 4%                                                                    | 355                                                                         | 11                                                               | 3%                                                                 |
| Eastbound State Route 91 Atlantic<br>Avenue to Cherry Avenue                                                        | 115,329                                                               | 13,839                                                     | 12%                                                          | 118,746                                                            | 14,250                                                  | 12%                                                       | 3,842                                                                       | 1,610                                                            | 13%                                                                   | 3,417                                                                       | 410                                                              | 3%                                                                 |
| Eastbound State Route 91 HOV Lane at Cherry Avenue                                                                  | 17,284                                                                | 0                                                          | 0%                                                           | 17,284                                                             | 0                                                       | 0%                                                        | 43                                                                          | 0                                                                | 0%                                                                    | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound Cherry Avenue Off-ramp                                                                                    | 5,802                                                                 | 638                                                        | 11%                                                          | 5,977                                                              | 657                                                     | 11%                                                       | 326                                                                         | 36                                                               | 6%                                                                    | 175                                                                         | 19                                                               | 3%                                                                 |
| Eastbound State Route 91 Between<br>Cherry Avenue Off-ramp and On-<br>ramp                                          | 106,988                                                               | 12,839                                                     | 12%                                                          | 110,230                                                            | 13,228                                                  | 12%                                                       | 3,510                                                                       | 1,488                                                            | 13%                                                                   | 3,242                                                                       | 389                                                              | 3%                                                                 |
| Eastbound Cherry Avenue On-ramp                                                                                     | 12,885                                                                | 773                                                        | 6%                                                           | 12,885                                                             | 773                                                     | 6%                                                        | 266                                                                         | 16                                                               | 2%                                                                    | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound State Route 91 Cherry<br>Avenue to Paramount Boulevard                                                    | 119,873                                                               | 14,385                                                     | 12%                                                          | 123,115                                                            | 14,774                                                  | 12%                                                       | 3,776                                                                       | 1,647                                                            | 13%                                                                   | 3,242                                                                       | 389                                                              | 3%                                                                 |
| Eastbound Paramount Boulevard Off-<br>ramp                                                                          | 7,663                                                                 | 766                                                        | 10%                                                          | 7,663                                                              | 766                                                     | 10%                                                       | 298                                                                         | 30                                                               | 4%                                                                    | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound State Route 91 Between<br>Paramount Boulevard Off-ramp and<br>On-ramp                                     | 112,210                                                               | 13,465                                                     | 12%                                                          | 115,452                                                            | 13,854                                                  | 12%                                                       | 3,478                                                                       | 1,537                                                            | 12%                                                                   | 3,242                                                                       | 389                                                              | 3%                                                                 |
| Eastbound Paramount Boulevard On-<br>ramp                                                                           | 8,341                                                                 | 918                                                        | 11%                                                          | 8,341                                                              | 918                                                     | 11%                                                       | 208                                                                         | 23                                                               | 3%                                                                    | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound State Route 91 East of<br>Paramount Boulevard                                                             | 120,551                                                               | 14,466                                                     | 12%                                                          | 123,793                                                            | 14,855                                                  | 12%                                                       | 3,686                                                                       | 1,643                                                            | 12%                                                                   | 3,242                                                                       | 389                                                              | 3%                                                                 |

Source: Traffic Volumes Report (Iteris, July 2020); PM Conformity Hot Spot Analysis Project Summary Form for Interagency Consultation (AMBIENT Air Quality and Noise Consulting, September 2020) Notes: I-710 = Interstate 710; HOV = High-Occupancy Vehicle; % = percent

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In comparison to existing conditions, Design Year 2045 delay and level of service at most intersections will not significantly change, as shown in Table 25. Atlantic Ave/State Route 91 Westbound Ramps would go from level of service B to level of service C during A.M. peak hour and level of service C to level of service D during P.M. peak hour for No Build and Build conditions. Atlantic Avenue/Artesia Avenue goes from level of service D to level of service E for both peak hours under No Build and Build conditions. Orange Avenue/68<sup>th</sup> Street goes from level of service D to level of service F for A.M. peak hour and level of service D to level of service E for P.M. peak hour under both No Build and Build conditions. Cherry Avenue/State Route 91 Westbound Ramps goes from level of service C to level of service D for A.M. peak hour under No Build and Build conditions. Cherry Avenue/State Route 91 Eastbound Ramps goes from level of service B to level of service C during P.M. peak hour under No Build and Build conditions. Cherry Avenue/Artesia Boulevard goes from level of service D to level of service E for both peak hours under No Build and Build conditions. As demonstrated in Table 26, traffic volumes are not predicted to significantly change. For Design Year (2045) the change from No Build Conditions shows an increase in truck traffic from zero percent to three percent for all project segments. The Build Alternative would not result in a significant increase in truck volumes.

### <u>Safety</u>

From the three-year collision history summarized in **Table 15** above, collision rates at four out of the nine analyzed mainline segments and two out of the four analyzed ramps were higher than the statewide average for similar facilities. **Table 16** and **Table 17** above shows the following:

- Rear-end collisions were the most common type of collision 65 percent of collisions on mainline segments and 42 percent of collisions on ramps.
- Sideswipe collisions were the second most common type of collision 29 percent of collisions on mainline segments and 23 percent of collisions on ramps.
- Most collisions occurred during peak periods of high traffic volume and congestion.
- Speeding was the primary cause of most collisions 62 percent of collisions on mainline segments and 39 percent of collisions on ramps.

As discussed above, when comparing the Build versus No Build, the improved traffic operations will result in a potential reduction in rear-end and sideswipe collisions. The Build enhancement features in this Project include:

- The addition of auxiliary lane between Southbound I-710 to Eastbound State Route 91 connector and Cherry Avenue off-ramp.
- Reconstruction of ramps to improve geometrics from the existing condition .
- Upgrades to pavement delineation, signage and lighting to meet the current Caltrans requirements.
- Increase in sight distance at Eastbound State Route 91 Cherry Avenue off-ramp
- Extension of the easterly and westerly limits of the existing HOV ingress/egress. Weaving to and from the ramps would have a longer distance.

| ID | Intersection                                              | Peak<br>Hour | Existing<br>Delay | Existing<br>Level of<br>Service | No<br>Build<br>Delay | No Build<br>Level of<br>Service | Build<br>Delay | Build<br>Level of<br>Service |
|----|-----------------------------------------------------------|--------------|-------------------|---------------------------------|----------------------|---------------------------------|----------------|------------------------------|
| 1  | Long Beach<br>Boulevard/State Route 91<br>Westbound Ramps | A.M.         | 100.5             | F                               | 105.7                | F                               | 105.7          | F                            |
|    | Long Beach<br>Boulevard/State Route 91<br>Westbound Ramps | P.M.         | 42.8              | D                               | 54.0                 | D                               | 54.0           | D                            |
| 2  | Long Beach<br>Boulevard/State Route 91<br>Eastbound Ramps | A.M.         | 33.6              | С                               | 36.6                 | С                               | 36.6           | С                            |
|    | Long Beach<br>Boulevard/State Route 91<br>Eastbound Ramps | P.M.         | 36.4              | D                               | 38.3                 | D                               | 38.3           | D                            |
| 3  | Atlantic Avenue/68th<br>Street                            | A.M.         | >300.0            | F                               | >300.0               | F                               | >300.0         | F                            |
|    | Atlantic Avenue/68th<br>Street                            | P.M.         | 221.3             | F                               | >300.0               | F                               | >300.0         | F                            |
| 4  | Atlantic Avenue/State<br>Route 91 Westbound<br>Ramps      | A.M.         | 18.7              | В                               | 21.2                 | С                               | 21.2           | С                            |
|    | Atlantic Avenue/State<br>Route 91 WB Ramps                | P.M.         | 27.9              | С                               | 37.6                 | D                               | 37.5           | D                            |
| 5  | Atlantic Avenue/State<br>Route 91 Eastbound<br>Ramps      | A.M.         | 18.9              | В                               | 18.1                 | В                               | 18.1           | В                            |
|    | Atlantic Avenue/State<br>Route 91 Eastbound<br>Ramps      | P.M.         | 40.8              | D                               | 40.9                 | D                               | 42.7           | D                            |
| 6  | Atlantic Avenue/Artesia<br>Boulevard                      | A.M.         | 48.2              | D                               | 65.6                 | E                               | 65.6           | E                            |
|    | Atlantic Avenue/Artesia<br>Boulevard                      | P.M.         | 52                | D                               | 61.2                 | E                               | 61.2           | E                            |
| 7  | Orange Avenue/68th<br>Street                              | A.M.         | 29.8              | D                               | 51.7                 | F                               | 51.7           | F                            |
|    | Orange Avenue/68th<br>Street                              | P.M.         | 32                | D                               | 42.7                 | E                               | 42.7           | E                            |
| 8  | Orange Avenue/67th<br>Street                              | A.M.         | 6.2               | А                               | 6.3                  | А                               | 6.3            | А                            |
|    | Orange Avenue/67th<br>Street                              | P.M.         | 5.6               | А                               | 5.6                  | А                               | 5.6            | А                            |
| 9  | Orange Avenue/Artesia<br>Boulevard                        | A.M.         | 43                | D                               | 49.6                 | D                               | 49.6           | D                            |
|    | Orange Avenue/Artesia<br>Boulevard                        | P.M.         | 36.3              | D                               | 39.3                 | D                               | 39.3           | D                            |
| 10 | Cherry Avenue/68th<br>Street                              | A.M.         | 37.8              | D                               | 41.1                 | D                               | 41.1           | D                            |
|    | Cherry Avenue/68th<br>Street                              | P.M.         | 42.3              | D                               | 44.6                 | D                               | 44.6           | D                            |

### Table 25: Comparison of Intersection Levels of Service - Design Year 2045

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

| ID | Intersection                                             | Peak<br>Hour | Existing<br>Delay | Existing<br>Level of<br>Service | No<br>Build<br>Delay | No Build<br>Level of<br>Service | Build<br>Delay | Build<br>Level of<br>Service |
|----|----------------------------------------------------------|--------------|-------------------|---------------------------------|----------------------|---------------------------------|----------------|------------------------------|
| 11 | Cherry Avenue/State<br>Route 91 Westbound<br>Ramps       | A.M.         | 34.1              | С                               | 35.5                 | D                               | 35.6           | D                            |
|    | Cherry Avenue/State<br>Route 91 Westbound<br>Ramps       | P.M.         | 40.6              | D                               | 41.8                 | D                               | 41.8           | D                            |
| 12 | Cherry Avenue/State<br>Route 91 Eastbound<br>Ramps       | A.M.         | 24.3              | С                               | 24.7                 | С                               | 25.0           | С                            |
|    | Cherry Avenue/State<br>Route 91 Eastbound<br>Ramps       | P.M.         | 19.3              | В                               | 20.4                 | С                               | 20.4           | С                            |
| 13 | Cherry Avenue/Artesia<br>Boulevard                       | A.M.         | 51.1              | D                               | 70.7                 | Е                               | 70.7           | Е                            |
|    | Cherry Avenue/Artesia<br>Boulevard                       | P.M.         | 51.5              | D                               | 60.3                 | Е                               | 60.3           | E                            |
| 14 | Paramount<br>Boulevard/State Route<br>91 Westbound Ramps | A.M.         | 26.6              | С                               | 27.8                 | С                               | 27.8           | С                            |
|    | Paramount<br>Boulevard/State Route<br>91 Westbound Ramps | P.M.         | 27.7              | С                               | 27.9                 | С                               | 27.9           | С                            |
| 15 | Paramount<br>Boulevard/State Route<br>91 Eastbound Ramps | A.M.         | 27.8              | С                               | 28.4                 | С                               | 28.4           | С                            |
|    | Paramount<br>Boulevard/State Route<br>91 Eastbound Ramps | P.M.         | 26.4              | С                               | 27.9                 | С                               | 27.9           | С                            |

### Table 25: Comparison of Intersection Levels of Service - Design Year 2045 (Continued)

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020)

Notes: > = greater than

Delay is expressed in seconds per vehicle.

There is no significant difference in projected traffic volumes/data between year 2040 and year 2045. Therefore, 2045 traffic data is presented as the Horizon/Design Year (2040) for purposes of this table.

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Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

## Table 26: Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes - Design Year 2045

| Segment                                                                                                            | No Build<br>Average<br>Daily Traffic<br>Volumes<br>(Total<br>Vehicle) | No Build<br>Average<br>Daily Traffic<br>Volumes<br>(Truck) | No Build<br>Average<br>Daily Traffic<br>Volumes<br>(Truck %) | Build<br>Average<br>Daily Traffic<br>Volumes<br>(Total<br>Vehicle) | Build<br>Average<br>Daily Traffic<br>Volumes<br>(Truck) | Build<br>Average<br>Daily Traffic<br>Volumes<br>(Truck %) | Build Change in<br>Conditions<br>Compared to<br>Existing (Total<br>Vehicle) | Build Change in<br>Conditions<br>Compared to<br>Existing (Truck) | Build Change in<br>Conditions<br>Compared to<br>Existing<br>(Truck %) | Build Change in<br>Conditions<br>Compared to No<br>Build (Total<br>Vehicle) | Build Change in<br>Conditions<br>Compared to No<br>Build (Truck) | Build Change in<br>Conditions<br>Compared to No<br>Build (Truck %) |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|
| Eastbound State Route-91 HOV Lane at I-710                                                                         | 14,876                                                                | 0                                                          | 0%                                                           | 14,876                                                             | 0                                                       | 0%                                                        | 168                                                                         | 0                                                                | 0%                                                                    | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound State Route 91 at I-710                                                                                  | 29,169                                                                | 1,750                                                      | 6%                                                           | 29,949                                                             | 1,797                                                   | 6%                                                        | 650                                                                         | 625                                                              | 53%                                                                   | 780                                                                         | 47                                                               | 3%                                                                 |
| I-710 Northbound to SR-91<br>Eastbound Ramp Direct Connector                                                       | 40,419                                                                | 2,829                                                      | 7%                                                           | 41,643                                                             | 2,915                                                   | 7%                                                        | 2,895                                                                       | 203                                                              | 7%                                                                    | 1,224                                                                       | 86                                                               | 3%                                                                 |
| Eastbound State Route 91 between I-<br>710 Northbound Direct Connector<br>and I-710 Southbound Direct<br>Connector | 69,588                                                                | 4,871                                                      | 7%                                                           | 71,592                                                             | 5,011                                                   | 7%                                                        | 3,545                                                                       | 1,609                                                            | 47%                                                                   | 2,004                                                                       | 140                                                              | 3%                                                                 |
| I-710 Southbound to SR-91<br>Eastbound Ramp Direct Connector                                                       | 35,230                                                                | 2,466                                                      | 7%                                                           | 36,297                                                             | 2,541                                                   | 7%                                                        | 1,074                                                                       | 75                                                               | 3%                                                                    | 1,067                                                                       | 75                                                               | 3%                                                                 |
| Eastbound SR-91 between I-710<br>Southbound Direct Connector and<br>Eastbound Atlantic Avenue On-ramp              | 104,818                                                               | 16,771                                                     | 16%                                                          | 107,889                                                            | 17,262                                                  | 16%                                                       | 4,619                                                                       | 5,903                                                            | 52%                                                                   | 3,071                                                                       | 491                                                              | 3%                                                                 |
| Eastbound Atlantic Avenue On-ramp                                                                                  | 12,116                                                                | 363                                                        | 3%                                                           | 12,498                                                             | 375                                                     | 3%                                                        | 864                                                                         | 26                                                               | 7%                                                                    | 382                                                                         | 11                                                               | 3%                                                                 |
| Eastbound SR-91 Atlantic Avenue to Cherry Avenue                                                                   | 116,934                                                               | 18,709                                                     | 16%                                                          | 120,387                                                            | 19,262                                                  | 16%                                                       | 5,483                                                                       | 6,622                                                            | 52%                                                                   | 3,453                                                                       | 552                                                              | 3%                                                                 |
| Eastbound SR-91 HOV Lane at<br>Cherry Avenue                                                                       | 17,438                                                                | 0                                                          | 0%                                                           | 17,438                                                             | 0                                                       | 0%                                                        | 197                                                                         | 0                                                                | 0%                                                                    | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound Cherry Avenue Off-ramp                                                                                   | 6,434                                                                 | 708                                                        | 11%                                                          | 6,616                                                              | 728                                                     | 11%                                                       | 965                                                                         | 106                                                              | 17%                                                                   | 182                                                                         | 20                                                               | 3%                                                                 |
| Eastbound SR-91 Between Cherry<br>Avenue Off-ramp and On-ramp                                                      | 107,938                                                               | 17,270                                                     | 16%                                                          | 111,209                                                            | 17,793                                                  | 16%                                                       | 4,489                                                                       | 6,054                                                            | 52%                                                                   | 3,271                                                                       | 523                                                              | 3%                                                                 |
| Eastbound Cherry Avenue On-ramp                                                                                    | 14,004                                                                | 840                                                        | 6%                                                           | 14,004                                                             | 840                                                     | 6%                                                        | 1,385                                                                       | 83                                                               | 11%                                                                   | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound State Route 91 Cherry<br>Avenue to Paramount Boulevard                                                   | 121,942                                                               | 19,511                                                     | 16%                                                          | 125,213                                                            | 20,034                                                  | 16%                                                       | 5,874                                                                       | 6,907                                                            | 53%                                                                   | 3,271                                                                       | 523                                                              | 3%                                                                 |
| Eastbound Paramount Boulevard Off-<br>ramp                                                                         | 8,916                                                                 | 892                                                        | 10%                                                          | 8,916                                                              | 892                                                     | 10%                                                       | 1,551                                                                       | 155                                                              | 21%                                                                   | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound State Route 91 Between<br>Paramount Boulevard Off-ramp and<br>On-ramp                                    | 113,026                                                               | 18,084                                                     | 16%                                                          | 116,297                                                            | 18,608                                                  | 16%                                                       | 4,323                                                                       | 6,290                                                            | 51%                                                                   | 3,271                                                                       | 523                                                              | 3%                                                                 |
| Eastbound Paramount Boulevard On-<br>ramp                                                                          | 9,218                                                                 | 1,014                                                      | 11%                                                          | 9,218                                                              | 1,014                                                   | 11%                                                       | 1,085                                                                       | 119                                                              | 13%                                                                   | 0                                                                           | 0                                                                | 0%                                                                 |
| Eastbound State Route 91 East of<br>Paramount Boulevard                                                            | 122,244                                                               | 19,559                                                     | 16%                                                          | 125,515                                                            | 20,082                                                  | 16%                                                       | 5,408                                                                       | 6,871                                                            | 52%                                                                   | 3,271                                                                       | 523                                                              | 3%                                                                 |

Source: Traffic Volumes Report (Iteris, July 2020); PM Conformity Hot Spot Analysis Project Summary Form for Interagency Consultation (AMBIENT Air Quality and Noise Consulting, September 2020) Notes: HOV = High-Occupancy Vehicle; % = percent

There is no significant difference in projected traffic volumes/data between year 2040 and year 2045. Therefore, 2045 traffic data is presented as the Horizon/Design Year (2040) for purposes of this table.

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### Pedestrian and Bicycle Facilities

As shown in **Figure 8** above, proposed portions of the Atlantic Avenue Bike Lane (B-7), Myrtle Avenue Bike Boulevard (B-8), and the Walnut Avenue Bike Boulevard (B-11) transect the Project Area; and an existing portion of the Orange Avenue Bike Lane (B-10) transects the Project Area. Construction of the Build Alternative could result in temporary disruptions to bicycle and pedestrian access from temporary construction traffic and staging, and local street closures during short-term periods. However, connectivity and accessibility for bicyclists and pedestrians would be maintained during short term closures as detours would be provided, as necessary, during construction.

A Public Awareness Campaign would be implemented as part of the Transportation Management Plan to address access impacts for bicyclists and pedestrians (see **PF-COM-2** below). The Public Awareness Campaign would include procedures for notifying the public of road closures, noise, dust, and other construction-related activities and would include a telephone hotline for the public to report concerns, with an option for telephone interpreters available upon request. In addition, the Public Awareness Campaign would encourage motorists, pedestrians, and bicyclists to take alternate routes or travel outside road closure hours. A Construction Staging Plan would also be implemented to minimize hazards on the roadways for bicyclists and pedestrians, and may include temporary detour routes, wayfinding and warning signage, barriers, and protective fencing (see **PF-COM-3** below). Specific measures to ensure safety for bicyclists and pedestrians would be developed during the Plans, Specifications, and Estimates Phase. In addition, any public input regarding bicycle and pedestrian facilities will be gathered during circulation of the environmental document to ensure any temporary access impacts are minimized.

The Build Alternative would be constructed within Caltrans and City right of way and would not permanently affect any existing pedestrian or bicycle facilities or impede pedestrian or bicycle access to existing transit services once the Project has been constructed. A proposed greenbelt, the Hamilton Loop (also known as the State Route 91 Embankment Greenbelt), is planned in Caltrans right of way within the Project Area. Coordination is being conducted with the City of Long Beach so that the Project will not preclude the proposed greenbelt. Therefore, the Build Alternative would not result in adverse impacts on bicycle and pedestrian facilities.

### Public Transit

As shown in **Figure 9** above, one bus stop along Long Beach Transit Bus Route 71, at Orange Avenue and 67th Street, has been identified in the Project Area that could be temporarily affected during Project construction as a result of local street closures. The bus stop may need to be temporarily relocated during the construction period. However, the bus route would continue to operate during construction.

Prior to Project construction, Metro would coordinate with affected public transportation agencies (Long Beach Transit and Metro bus service) to provide rerouting information to the public in advance of any service disruptions (see **PF-TR-1** below). During operation, the Build Alternative would not result in reduced access to, or the displacement or relocation of, transit stops in the Project Study Area.

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### Project Features

The following Project features will be implemented to reduce impacts on traffic and transportation:

- **PF-COM-2** Prepare a Traffic Management Plan and Traffic Handling Plan. The Traffic Management Plan would include a Public Awareness Campaign.
- **PF-COM-3** Prepare a Construction Staging Plan. The Construction Staging Plan would detail efforts to modify construction staging to expedite construction and minimize exposure time to adjacent residents.
- **PF-TR-1** Prior to construction, Metro will coordinate with public transportation agencies (Long Beach Transit and Metro bus service) to provide rerouting information, including operating schedules, to the public at least one month in advance of any service disruptions.

With implementation of these Project features, the Build Alternative would not result in adverse impacts on traffic and transportation/pedestrian and bicycle facilities.

### Avoidance, Minimization, and/or Mitigation Measures

Impacts on traffic and transportation/pedestrian and bicycle facilities would not be adverse; therefore, avoidance, minimization, and/or mitigation measures would not be required.

### **Cumulative Impacts**

Overall, the circulation system in the Project Study Area experiences substantial congestion due to existing travel demand. The proposed Project would enhance safety conditions on the Eastbound State Route 91 mainline, reduce congestion, and improve Eastbound freeway operations (both mainline and ramps), therefore the proposed Project's contribution to permanent cumulative impacts on traffic and transportation would be beneficial.

During construction, the proposed Project would require full closures of the State Route 91/Atlantic Avenue Eastbound off-ramp, State Route 91/Atlantic Avenue Eastbound on-ramp, and State Route 91/Cherry Avenue Eastbound on-ramp. Full closures would last approximately 55 hours to less than ten days, and no consecutive ramps would be closed at the same time. Additionally, the I-710/Atlantic Avenue Southbound off-ramp is anticipated to occur for approximately 6 months. However, under **PF-COM-2**, a Transportation Management Plan prepared for the Project would identify alternate routes, detours, and access points for motorists. During construction, the proposed Project could result in temporary disruptions to bicycle and pedestrian access from temporary construction traffic and staging, and local street closures during short-term periods. However, connectivity and accessibility for bicyclists and pedestrians would be maintained during short term closures as detours would be provided, as necessary, during construction.

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Construction of the proposed Project is anticipated to be complete by 2024. Based on currently available information, the anticipated construction timing would not overlap with the current and future transportation and development projects listed in **Table 6**. However, should these projects result in potentially concurrent construction periods, there could be temporary disruptions related to access and circulation due to lane or road closures. Both the I-710 Corridor Project and State Route 91 Central Avenue to Acacia Court Project would require temporary road closures and detours that could affect traffic circulation in the Project Study Area. However, a Transportation Management Plan would be prepared for each project to minimize cumulative effects on traffic and transportation and bicycle and pedestrian facilities.

The proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to Traffic and Transportation/Pedestrian and Bicycle Facilities with implementation of a Traffic Management Plan under project feature **PF-COM-2**.

### 2.1.4 VISUAL/AESTHETICS

### **Regulatory Setting**

The National Environmental Policy Act (NEPA) of 1969, as amended, establishes that the federal government use all practicable means to ensure all Americans safe, healthful, productive, and *aesthetically* (emphasis added) and culturally pleasing surroundings (42 United States Code [USC] 4331[b][2]). To further emphasize this point, the Federal Highway Administration, in its implementation of NEPA (23 USC 109[h]), directs that final decisions on projects are to be made in the best overall public interest taking into account adverse environmental impacts, including among others, the destruction or disruption of aesthetic values.

The California Environmental Quality Act (CEQA) establishes that it is the policy of the state to take all action necessary to provide the people of the state "with…enjoyment of *aesthetic*, natural, scenic and historic environmental qualities" (CA Public Resources Code [PRC] Section 21001[b]).

California Streets and Highways Code Section 92.3 directs Caltrans to use drought resistant landscaping and recycled water when feasible and incorporate native wildflowers and native and climate-appropriate vegetation into the planting design when appropriate.

### Affected Environment

A Minor Level Visual Impact Assessment (VIA) was prepared for the Project in March 2020 to discuss potential impacts related to visual/aesthetics.

State Route 91 is not a designated State Scenic Highway in this area, nor is it labeled as a corridor that offers scenic views. This portion of State Route 91 also does not have any landmark plantings, special rock formations, or any other scenic resources present.

The Project setting is characterized by manmade development with most structures consisting of buildings, roads, and utilities. The land use within the Project corridor is primarily urban that is developed with freeways (State Route 91 and I-710), residential, commercial, and a church. The existing view along Eastbound State Route 91 between Atlantic Avenue and Cherry Avenue consists of a wide, 6-lane freeway with existing soundwalls visible on both sides, no landscape, and protruding treetops, light poles, and utility poles along the outer limits and in the distance.

The visual character of these hardscape elements from the eastbound direction maintains the symmetry of the existing soundwalls and protruding treetops from both sides of the freeway. Strong linear lines are present with neutral colors, simple textures, and a prominent roadway. The visual quality of the Project Area is average, because although the elements are compositionally harmonious with each other and have few visual intrusions, there are no elements that create memorable or diverse views.

Figure 10 illustrates key view locations, and are described as follows:

- **Key View #1**: The existing street view along Eastbound State Route 91 between Atlantic Avenue and Cherry Avenue is along 67th Street, and approximately 25 feet below grade from the surrounding freeway. From this Key View location, there is a 10-foot-high retaining wall abutting the sidewalk, sloped and narrow landscape area with mature trees and brush, and the soundwall from the above grade freeway. There are no structural aesthetics on the retaining wall and no pattern to the existing trees. The visual character at Key View #1 has strong lines, forms, and dominance from the staggered walls, soundwall and retaining wall. The tree canopies are prominent too, but there is no pattern and very little consistency amongst them.
- **Key View #2**: The existing street view at this location on 67th Street shows a chain link fence at the perimeter of the sidewalk, sloped landscape buffer adjacent to the freeway, and the freeway underpass at Walnut Avenue and 67th Street The existing trees are sparse and the rest of the landscape dead. There are two-tiered landscape tie walls and a picnic table on the corner of the street, adjacent to the freeway and Caltrans right of way landscape.

Key viewers include the following:

- Neighbors (people with views to the road), located in residential neighborhoods from below grade adjacent to the existing freeway, have full views to the existing State Route 91 freeway if they look up. The existing freeway has a notable presence in the daily lives of residential neighbors, but the duration of exposure is relatively short.
- Highway users (people with views from the road) include motorists along State Route 91. Highway user views of the Project corridor mostly consist of the wide 12-lane freeway, existing soundwalls, utility poles and lines, and tree canopies protruding from behind the soundwalls in the distance and adjacent to the walls.

## Figure 10: Key View Locations





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### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on visual/aesthetics.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

The proposed Build Alternative would require construction activities, which would result in visual impacts. Construction would be temporary, and any visual impacts related to construction would end once the Build Alternative is in place. In addition, a Public Awareness Campaign would be implemented to minimize construction-related impacts on the public (see **PF-COM-2** above under Section 2.1.3, Traffic and Transportation/Pedestrian and Bicycle Facilities). The Public Awareness Campaign would include procedures for notifying the public of construction-related activities and would include a telephone hotline for the public to report concerns, with an option for telephone interpreters available upon request. Specific measures to minimize visual impacts during construction would be included in the Construction Staging Plan, which would be developed during the Plans, Specifications, and Estimates Phase.

The proposed eastbound widening would push the soundwalls out 10 to 15 feet, parallel to the existing walls, thus maintaining similar forms, lines, colors, textures, and height within the area. The roadway would still be the most prominent visual element. The visual character of the Project would be fully compatible with the existing visual character of the corridor. The visual quality of the existing corridor would not be altered by the Project.

The changes to key views are described as follows, and are illustrated in **Figure 11** and **Figure 12** below showing pictures before Project implementation and simulations after Project implementation:

- **Key View #1**: Due to the Atlantic Avenue eastbound on-ramp widening at this location, the Project would remove most of the existing landscape area within this view and replace it with a new, aesthetically treated retaining wall with a new freeway soundwall on top. The widening would limit the right of way so that there would not be adequate space to accommodate plant material, even vines. The scale, form, colors, and texture from the proposed elements will emphasize the structural visual character of the Project. The visual quality at this location would be altered by the proposed Project. The Build Alternative at this location is shown to be very noticeable, but still compatible with the existing design elements. Visual quality would increase in vividness and unity, but lower in intactness because of an encroaching structural element replacing the vegetation within this view. Although the vegetation is removed within this Key View, it is important to note that within the rest of the Project Area, there would still be landscaped areas present.
- **Key View #2**: In this view, the proposed widening of Eastbound State Route 91 would cut into the existing landscape but would still maintain enough space for new planting. The

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landscape tiered walls would be modified, but there would still be room for the picnic table. The visual character for the proposed elements at this location is shown to be minor and subtle, with the new changes strongly resembling the existing elements. The soundwall, bridge undercrossing, top of slope, chain link fence, and bottom of slope, all create strong horizontal lines across the view. The visual quality at this location shows that the existing streetlight encroaches into and breaks up the strong horizontal lines, but it would remain the same after the proposed Project is constructed. The proposed elements are continuous of the existing infrastructure and do not encroach or obstruct any existing views or elements. The proposed Build Alternative for Key View #2 maintains a very similar composition to the existing infrastructure, thus having very little impact on vividness.

The visual character and visual quality for both Key Views would be harmonious, orderly, and uniform with the existing visual character and quality. Within the Project improvements, most of the existing elements would remain intact and unified with the proposed elements. The proposed Build Alternative would result in moderately-low changes to both visual character and visual quality, thus resulting in an overall moderately-low Resource Change.

Viewer response is described as follows:

- Highway viewers would hardly notice the changes from the Build Alternative because the widening would replace the existing soundwall in similar design, color, and height. The speeds at which the highway users are driving would be too fast for them to be distracted or take much notice of any minor changes. Highway users have low sensitivity to the existing Project corridor because it does not have any scenic highway qualities. The soundwalls help to keep the freeway corridor uniform and harmonious and would be replaced with a similar soundwall.
- Neighbors would notice that most of the changes are minor and very similar to shape and scale to the existing infrastructure, so the distance from the view and the duration would be low. Residential viewer sensitivity to the existing Project Area is moderately-low because it is directly across the street from their front yard, but there are no elements with any prior scenic qualities that would be impacted. It is anticipated that the average response of all viewer groups will be moderately-low.
Figure 11: Key View #1 – Visual Simulation (Before and After)



Source: Tatsumi and Partners, Inc., November 2019

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Figure 12: Key View #2 - Visual Simulation (Before and After)



Visual simulation of the proposed EB roadway widening with example of structural aesthetics. In this view, an auxiliary lane is added to SR-91 between Atlantic Ave. and Cherry Ave. which pushes the existing soundwall and undercrossing out 10-15 feet. Final aesthetic treatments will be determined during construction documentation phase.

Source: Tatsumi and Partners, Inc., November 2019

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The proposed Build Alternative would result in compatible visual characteristics to the existing Project corridor. The viewers affected by this Project are anticipated to have moderately-low viewer sensitivity to the changes in the visual character of visual resources. The overall degree of the impact to the visual quality is anticipated to be moderately-low. Construction of the Project would create temporary visual related impacts in the Project Area due to the use of construction vehicles and equipment. However, proposed Project features would be similar in character and quality to the existing features within the Project corridor. Therefore, visual impacts from Project construction would be moderately low.

The Project would include context sensitive solutions, including aesthetic treatments and landscaping, to ensure the Project is compatible with existing visual character and quality (see **AVM-VIS-1** and **AVM-VIS-2** below under Avoidance, Minimization, and/or Mitigation Measures). With the implementation of these avoidance and minimization measures, the Build Alternative would not result in adverse impacts related to visual/aesthetics.

### Avoidance, Minimization, and/or Mitigation Measures

The following avoidance and minimization measures will be implemented to reduce impacts on visual/aesthetics:

- **AVM-VIS-1** Soundwalls, retaining walls, and other structures may receive aesthetic treatments, which would be consistent with applicable aesthetic corridor plans. Pilasters may be added to soundwalls and places where deemed necessary by engineers. However, final aesthetics will adhere to guidelines to be determined by the State Route 91 Aesthetics Master Plan Committee with concurrence by Caltrans, Metro, the City of Long Beach, and local communities during the construction documentation phase.
- **AVM-VIS-2** Where feasible, drought tolerant trees, shrubs, and groundcover will be incorporated within the Project right of way to help improve the overall visual quality of this area. These landscape concepts include CO2 sequestering elements to help contain and reduce CO2 emissions. The plant palette will be developed in consultation with a Caltrans landscape architect.

With implementation of these avoidance and minimization measures, the Build Alternative would not result in adverse impacts on visual/aesthetics.

#### **Cumulative Impacts**

The Project Study Area is in an urbanized transportation corridor with low visual quality and no scenic resources. The proposed Project would feature visual elements; however, all improvements would be similar to the visual character of the existing setting within the Project Study Area. As discussed above, the proposed Project's effects on aesthetics would be relatively minor during operation with implementation of avoidance and minimization measures.

Of the current and future projects listed in **Table 6** above, the I-710 Corridor Project has the potential to contribute to cumulative effects on aesthetics during operation. As discussed in the I-710 Corridor Project RDEIR/SDEIS, the project would result in long-term adverse impacts through the introduction of new physical structures and lighting (California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2017). However, the I-710 Corridor Project would incorporate aesthetic treatments and concepts from the *I-710 Corridor Aesthetics Master Plan* (2015) to mitigate visual impacts. Although environmental documents were not available for the Uptown Commons and Hamilton Loop projects, these projects are development or greenbelt project Study Area, and would be required to implement avoidance, minimization, and/or mitigation measures to comply with the requirements of CEQA and/or NEPA.

Based on the above discussion, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to aesthetics and mitigation would not be required.

### 2.1.5 CULTURAL RESOURCES

### **Regulatory Setting**

The term "cultural resources," as used in this document, refers to the "built environment" (e.g., structures, bridges, railroads, water conveyance systems, etc.), places of traditional or cultural importance, and archaeological sites (both prehistoric and historic), regardless of significance. Under federal and state laws, cultural resources that meet certain criteria of significance are referred to by various terms including "historic properties," "historic sites," "historical resources," and "tribal cultural resources." Laws and regulations dealing with cultural resources include:

The National Historic Preservation Act (NHPA) of 1966, as amended, sets forth national policy and procedures for historic properties, defined as districts, sites, buildings, structures, and objects included in or eligible for listing in the National Register of Historic Places (NRHP). Section 106 of the NHPA requires federal agencies to take into account the effects of their undertakings on historic properties and to allow the Advisory Council on Historic Preservation (ACHP) the opportunity to comment on those undertakings, following regulations issued by the ACHP (36 Code of Federal Regulations [CFR] 800). On January 1, 2014, the First Amended Programmatic Agreement (PA) among the Federal Highway Administration, the ACHP, the California State Historic Preservation Officer (SHPO), and Caltrans regarding Compliance with Section 106 of the National Historic Preservation Act went into effect for Department projects, both state and local, with Federal Highway Administration involvement. The PA implements the ACHP's regulations, 36 CFR 800, streamlining the Section 106 process and delegating certain responsibilities to Caltrans. The Federal Highway Administration's responsibilities under the PA have been assigned to Caltrans as part of the Surface Transportation Project Delivery Program (23 United States Code [USC] 327).

The California Environmental Quality Act (CEQA) requires the consideration of cultural resources that are historical resources and tribal cultural resources, as well as "unique" archaeological resources. California Public Resources Code (PRC) Section 5024.1 established the California Register of Historical Resources (CRHR) and outlined the necessary criteria for a

cultural resource to be considered eligible for listing in the CRHR and, therefore, a historical resource. Historical resources are defined in PRC Section 5020.1(j). In 2014, Assembly Bill 52 (AB 52) added the term "tribal cultural resources" to CEQA, and AB 52 is commonly referenced instead of CEQA when discussing the process to identify tribal cultural resources (as well as identifying measures to avoid, preserve, or mitigate effects to them). Defined in PRC Section 21074(a), a tribal cultural resource is a CRHR or local register eligible site, feature, place, cultural landscape, or object which has a cultural value to a California Native American tribe. Tribal cultural resources are referenced in PRC Section 21083.2.

PRC Section 5024 requires state agencies to identify and protect state-owned historical resources that meet the NRHP listing criteria. It further requires Caltrans to inventory state-owned structures in its rights-of-way.

### **Affected Environment**

An Historic Property Survey Report and Archaeological Survey Report were prepared for the Project in October 2020 to discuss the Project's impacts on cultural resources.

The Project's Area of Potential Effects was developed in consultation with the Project Development Team (PDT) and is composed of both vertical and horizontal dimensions. The Area of Potential Effects consists of the entirety of the Project footprint, including the areas where physical impacts will occur (direct effects). **Figure 13** illustrates the horizontal Area of Potential Effects, which spans 1.4 linear miles (from P.M. R11.8 to R13.2) and covers 46.83 acres. The majority of the Area of Potential Effects consists of lane and shoulder extensions along the Eastbound State Route 91, four bridges that would also require expansion (Myrtle Avenue Undercrossing, Orange Avenue Undercrossing, Walnut Avenue Undercrossing, and Atlantic Avenue Undercrossing), and one bridge that would not require expansion (Cherry Avenue Undercrossing). All construction areas would be within the Caltrans and/or the City of Long Beach right of way and do not require any acquisitions or easements. The vertical Area of Potential Effects is estimated to be a maximum depth of 100 feet for piles for the proposed bridge widenings, and potentially for wall footings or overhead sign footings.

A records search, literature research, Native American consultation, and a field survey were conducted. The records search did not identify any archaeological resources within one mile of the Project's Area of Potential Effects. The records search indicated that two cultural resources studies have previously been completed and have study areas that overlap with portions of the Area of Potential Effects. No built environment resources are located within the Area of Potential Effects, though there are 19 built environment resources within one mile of the Area of Potential Effects. No archaeological resources were identified during the field survey. The surface of the Area of Potential Effects was covered by pavement, vegetation, and modern construction.

The following groups were contacted with combined AB 52/Section 106 letters:

- Gabrieleño Band of Mission Indians-Kizh Nation Andrew Salas
- Gabrieleno/Tongva San Gabriel Band of Mission Indians Anthony Morales

The following groups were contacted with Section 106 letters:

- Gabrielino/Tongva Nation Sandonne Goad
- Gabrielino Tongva Indians of California Tribal Council Robert Dorame
- Gabrielino-Tongva Tribe Charles Alvarez

#### Figure 13: Area of Potential Effects



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As of June 23, 2020, responses have been received from Anthony Morales, Andrew Salas, and Robert Dorame regarding the AB 52 and Section 106 consultation. Their responses are below:

- On May 15, 2020, Mr. Morales expressed a concern for the Project's location near the Los Angeles River and the cultural significance the area holds for his people. He indicated that due to proximity to the Los Angeles River and Compton Creek the area is sensitive for Gabrielino sites. He also indicated that the discovery of human remains near the intersection of the SR-22 and the I-405 a few months ago seems like a similar situation with the elevated roadbed of the Project. He requested that Native American monitoring and archaeological monitoring be undertaken during excavation.
- Between May 2019 and May 2020, the Gabrieleño Band of Mission Indians-Kizh Nation consulted nine separate times with Caltrans and/or DUKE CRM (the preparer of the Archaeological Survey Report), on behalf of Caltrans, including meetings, phone calls, and emails. In summary, the Tribe has repeatedly maintained that the area is sensitive for cultural resources and recommended archaeological and Native American monitoring. The Tribe provided extensive information about the background of the Project Area, the history of the Los Cerritos land grant, various Native place-names, and the historic Gabrielino occupation and settlement of the area surrounding the Project.
- On May 15, 2020, Mr. Dorame requested and was emailed the consultation letter and maps. To follow up with Mr. Dorame, the consultation letter and map was emailed on June 17, 2020 and he was called later that day. Over the phone Mr. Dorame requested that in the event of the discovery of cultural material and burials from the Tongva people, that the Gabrielino Tongva Indians of California Tribal Council be notified, regardless of any finding about Most Likely Descendent decisions by the Native American Heritage Commission.

Further outreach to Mr. Morales was conducted on October 2, 2020 summarizing edits made to this document and stating that it is Caltrans' and Metro's intent to implement a limited monitoring program to be described in a Monitoring Plan. Mr. Morales has not responded.

Consultation with Gabrieleño Band of Mission Indians-Kizh Nation took place throughout the planning process. In a meeting held on July 9, 2019 with the Gabrieleño Band of Mission Indians-Kizh Nation, Chairperson Andrew Salas and Matthew Teutimez provided information about the prehistoric land use of the Project vicinity for consideration during this study. Mr. Salas and Mr. Teutimez shared that the Project location is between two known ethnohistoric villages: Tibahangna located about 2.5 miles to the south and Abahangna located about 7.2 miles to the north. They also stated a Jabonera (soap production facility) was situated within Rancho Los Cerritos, in the area of the Project, as well as another in the area of Abahangna. Mr. Teutimez explained that Jaboneras were historically established in areas containing resources available for soap production and, as would be expected, these resources were managed and used by local Native American communities prior to colonization. Such resources would have been part of a village's resource use area. For this reason, the locations of Jaboneras are good indicators of the locations of ancient village sites. Mr. Teutimez also stated that Artesia Boulevard to the south was an old trade route that ran in an east-west direction, and that the Los Angeles River was another north-south trending trade route. In addition to this information, Mr. Salas and Mr. Teutimez provided references to additional sources of

information, including historic maps, news accounts of archaeological finds, and ethnographic studies. These sources were examined for this study, and only those relevant to the Study Area and vicinity have been included in the Archaeological Survey Report.

In a follow-up meeting with the Tribe held on March 14, 2020, Mr. Teutimez pointed out that the Project was located along the meandering course of the Los Angeles River and that a Gabrieleno trade route traversed in a north-south direction along present-day Cherry Avenue. This route was the precursor to the Union Pacific Railroad that runs between Cherry and Paramount Avenues. The Tribe reiterated the fact that two ethnohistoric villages, *Tibahangna* and *Abahangna*, were located in the area of the Project.

In a final meeting on September 8, 2020, Caltrans staff reviewed all of the information provided by the Tribe and provided an overview of the results of the current archaeological investigation. Mr. Salas and Mr. Teutimez objected to the placement of village locations on the maps as these may give researchers the wrong impression that villages were contained within a small area. They also pointed out that boundaries of villages were fluid and encompassed resource procurement areas; so, a dot on a map does not capture the complexity and fluidity of Gabrieleno settlements. They requested that all maps showing village locations be removed from the report. Mr. Salas and Mr. Teutimez concluded the consultation by stating that the Project location is situated in the vicinity of three Gabrieleno travel routes that followed the present-day course of the Los Angeles River on the west, the San Gabriel River on the east, and Artesia Boulevard on the south. In addition, two ethnohistoric villages are known to have been located some distance to the north and south of the Project. This would place the Project's Area of Potential Effects at the center of a heavily trafficked area and, thus, it is an area of concern for the Tribe. For this reason, the Tribe requests archaeological and Native American monitoring to confirm that no cultural resources will be affected during Project construction.

Following this meeting, Caltrans staff confirmed with Mr. Salas and Mr. Teutimez via email (dated September 17, 2020) that a limited archaeological and Native American monitoring program will be prepared to outline the conditions and procedures for monitoring.

An archaeological sensitivity analysis was prepared as part of the Archaeological Survey Report to assess the potential for buried prehistoric or historic-era archaeological resources within the Area of Potential Effects and to make recommendations for additional steps to identify and treat buried archaeological resources, if necessary, to avoid inadvertent effects by project-related activities. The archaeological sensitivity analysis, coupled with the results of the field survey and background research, indicates that the Area of Potential Effects has low sensitivity for archaeological resources.

#### **Environmental Consequences**

#### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on cultural resources.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

Ground disturbance within the Project's Area of Potential Effects would be as deep as 100 feet in depth at the proposed bridge widenings (Myrtle Avenue Undercrossing, Orange Avenue Undercrossing, Walnut Avenue Undercrossing, and Atlantic Avenue Undercrossing), and potentially for wall footings or overhead sign footings; and up to 15 feet vertical and up to 30 feet horizontal to remove and reconstruct soundwalls and retaining walls, a portion of which likely is fill as observed during the reconnaissance survey. The origin of the fill is unknown; however, if the fill sediments came from nearby parcels, these are likely devoid of cultural materials as no known sites have been recorded within a one-mile radius of the Project Area of Potential Effects. The results of the archaeological sensitivity analysis indicate that the potential for encountering buried archaeological resources is low. According to the Historic Property Survey Report, the anticipated effects finding is No Historic Properties Affected.

As stated above, during the course of Native American consultation for the undertaking, the Gabrieleño Band of Mission Indians-Kizh Nation and the Gabrieleno/Tongva San Gabriel Band of Mission Indians identified the Project location as sensitive for buried cultural resources and, thus, both parties requested archaeological and Native American monitoring. The results of the background research, archaeological sensitivity analysis, and field survey indicate that the Project has a low potential to affect cultural resources. These findings have been shared with the concerned tribes, but they remain concerned about ground disturbance in the Project Area. For this reason, and to confirm the conclusions of this study, a limited archaeological and Native American monitoring program will be implemented during Project construction. An archaeological and Native American monitoring plan is under preparation and will outline conditions and procedures for monitoring that will ensure Native American concerns are satisfactorily resolved with regard to degree of disturbance to the Project location and potential to encounter buried archaeological deposits. The monitoring plan will be reviewed by the Native American tribes and implemented during Project construction.

If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find.

If human remains are discovered, California Health and Safety Code (H&SC) Section 7050.5 states that further disturbances and activities shall stop in any area or nearby area suspected to overlie remains, and the County Coroner contacted. If the remains are thought by the coroner to be Native American, the coroner will notify the Native American Heritage Commission, who, pursuant to PRC Section 5097.98, will then notify the Most Likely Descendent. At this time, the person who discovered the remains will contact Claudia Harbert, Caltrans District 7 Cultural Resources Environmental Branch Chief, so that they may work with the Most Likely Descendent on the respectful treatment and disposition of the remains. Further provisions of PRC 5097.98 are to be followed as applicable.

Section 4(f) of the Department of Transportation Act of 1966 provides protection for historic properties. There are no historic properties present within the Area of Potential Effects; therefore, there are no Section 4(f) historic sites affected by the proposed Project.

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

The following Project features will be implemented during construction:

- **PF-CUL-1** If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find.
- **PF-CUL-2** If human remains are discovered, California Health and Safety Code (H&SC) Section 7050.5 states that further disturbances and activities shall stop in any area or nearby area suspected to overlie remains, and the County Coroner contacted. If the remains are thought by the coroner to be Native American, the coroner will notify the Native American Heritage Commission, who, pursuant to PRC Section 5097.98, will then notify the Most Likely Descendent. At this time, the person who discovered the remains will contact Claudia Harbert, Caltrans District 7 Cultural Resources Environmental Branch Chief, so that they may work with the Most Likely Descendent on the respectful treatment and disposition of the remains. Further provisions of PRC 5097.98 are to be followed as applicable.
- **PF-CUL-3** Metro will implement a limited archaeological and Native American monitoring program with interested Tribes as detailed in the Archaeological and Native American Monitoring Plan prior to and during Project construction.

Because no cultural resources were identified in the APE, the Build Alternative would not result in impacts on cultural resources.

### Avoidance, Minimization, and/or Mitigation Measures

The Build Alternative would not result in impacts on cultural resources; therefore, avoidance, minimization, and/or mitigation measures would not be required.

#### **Cumulative Impacts**

Because no cultural resources were identified in the Project Study Area, the Build Alternative would not result in impacts on cultural resources. Therefore, the proposed Project would not contribute to a cumulative impact on cultural resources and no further analysis is required.

### 2.2 Physical Environment

### 2.2.1 WATER QUALITY AND STORM WATER RUNOFF

#### **Regulatory Setting**

Federal Requirements: Clean Water Act

In 1972, Congress amended the Federal Water Pollution Control Act, making the addition of pollutants to the waters of the United States (U.S.) from any point source unlawful unless the discharge is in compliance with a National Pollutant Discharge Elimination System permit (A point source is any discrete conveyance such as a pipe or a man-made ditch.). This act and its amendments are known today as the Clean Water Act. Congress has amended the act several times. In the 1987 amendments, Congress directed dischargers of storm water from municipal and industrial/construction point sources to comply with the National Pollutant Discharge Elimination System permit scheme. The following are important Clean Water Act sections:

- Sections 303 and 304 require states to issue water quality standards, criteria, and guidelines.
- Section 401 requires an applicant for a federal license or permit to conduct any activity that may result in a discharge to waters of the U.S. to obtain certification from the state that the discharge will comply with other provisions of the act. This is most frequently required in tandem with a Section 404 permit request (see below).
- Section 402 establishes the National Pollutant Discharge Elimination System, a permitting system for the discharges (except for dredge or fill material) of any pollutant into waters of the U.S. Regional Water Quality Control Boards administer this permitting program in California. Section 402(p) requires permits for discharges of storm water from industrial/construction and municipal separate storm sewer systems.
- Section 404 establishes a permit program for the discharge of dredge or fill material into waters of the U.S. This permit program is administered by the U.S. Army Corps of Engineers.

The goal of the Clean Water Act is "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters."

The U.S. Army Corps of Engineers issues two types of 404 permits: General and Individual. There are two types of General permits: Regional and Nationwide. Regional permits are issued for a general category of activities when they are similar in nature and cause minimal environmental effect. Nationwide permits are issued to allow a variety of minor project activities with no more than minimal effects.

Ordinarily, projects that do not meet the criteria for a Regional or Nationwide Permit may be permitted under one of the U.S. Army Corps of Engineers' Individual permits. There are two types of Individual permits: Standard permits and Letters of Permission. For Individual permits,

the U.S. Army Corps of Engineers' decision to approve is based on compliance with U.S. Environmental Protection Agency's (U.S. EPA) Section 404 (b)(1) Guidelines (40 Code of Federal Regulations [CFR] Part 230), and whether the permit approval is in the public interest. The Section 404(b)(1) Guidelines (Guidelines) were developed by the U.S. EPA in conjunction with the U.S. Army Corps of Engineers, and allow the discharge of dredged or fill material into the aquatic system (waters of the U.S.) only if there is no practicable alternative which would have less adverse effects. The Guidelines state that the U.S. Army Corps of Engineers may not issue a permit if there is a least environmentally damaging practicable alternative (LEDPA) to the proposed discharge that would have lesser effects on waters of the U.S. and not have any other significant adverse environmental consequences. According to the Guidelines, documentation is needed that a sequence of avoidance, minimization, and compensation measures has been followed, in that order. The Guidelines also restrict permitting activities that violate water quality or toxic effluent standards (The U.S. EPA defines "effluent" as "wastewater, treated or untreated, that flows out of a treatment plant, sewer, or industrial outfall."), jeopardize the continued existence of listed species, violate marine sanctuary protections, or cause "significant degradation" to waters of the U.S. In addition, every permit from the U.S. Army Corps of Engineers, even if not subject to the Section 404(b)(1) Guidelines, must meet general requirements. See 33 CFR 320.4.

State Requirements: Porter-Cologne Water Quality Control Act

California's Porter-Cologne Act, enacted in 1969, provides the legal basis for water quality regulation within California. This act requires a "Report of Waste Discharge" for any discharge of waste (liquid, solid, or gaseous) to land or surface waters that may impair beneficial uses for surface and/or groundwater of the state. It predates the Clean Water Act and regulates discharges to waters of the state. Waters of the state include more than just waters of the U.S., like groundwater and surface waters not considered waters of the U.S. Additionally, it prohibits discharges of "waste" as defined, and this definition is broader than the Clean Water Act definition of "pollutant." Discharges under the Porter-Cologne Act are permitted by Waste Discharge Requirements (WDRs) and may be required even when the discharge is already permitted or exempt under the Clean Water Act.

The State Water Resources Control Board and Regional Water Quality Control Boards are responsible for establishing the water quality standards (objectives and beneficial uses) required by the Clean Water Act and regulating discharges to ensure compliance with the water quality standards. Details about water quality standards in a project area are included in the applicable Regional Water Quality Control Board Basin Plan. In California, Regional Water Quality Control Boards designate beneficial uses for all water body segments in their jurisdictions and then set criteria necessary to protect those uses. As a result, the water quality standards developed for particular water segments are based on the designated use and vary depending on that use. In addition, the State Water Resources Control Board identifies waters failing to meet standards for specific pollutants. These waters are then state-listed in accordance with Clean Water Act Section 303(d). If a state determines that waters are impaired for one or more constituents and the standards cannot be met through point source or non-point source controls (National Pollutant Discharge Elimination System permits or WDRs), the Clean Water Act requires the establishment of Total Maximum Daily Loads (TMDLs). TMDLs specify allowable pollutant loads from all sources (point, non-point, and natural) for a given watershed.

State Water Resources Control Board and Regional Water Quality Control Boards

The State Water Resources Control Board administers water rights, sets water pollution control policy, and issues water board orders on matters of statewide application, and oversees water quality functions throughout the state by approving Basin Plans, TMDLs, and National Pollutant Discharge Elimination System permits. Regional Water Quality Control Boards are responsible for protecting beneficial uses of water resources within their regional jurisdiction using planning, permitting, and enforcement authorities to meet this responsibility.

National Pollutant Discharge Elimination System Program Municipal Separate Storm Sewer Systems

Section 402(p) of the Clean Water Act requires the issuance of National Pollutant Discharge Elimination System permits for five categories of storm water discharges, including Municipal Separate Storm Sewer Systems. A municipal separate storm sewer system is defined as "any conveyance or system of conveyances (roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, human-made channels, and storm drains) owned or operated by a state, city, town, county, or other public body having jurisdiction over storm water, that is designed or used for collecting or conveying storm water." The State Water Resources Control Board has identified Caltrans as an owner/operator of a municipal separate storm sewer system under federal regulations. Caltrans' municipal separate storm sewer systems permit covers all Department rights-of-way, properties, facilities, and activities in the state. The State Water Resources Control Board or the Regional Water Quality Control Board issues National Pollutant Discharge Elimination System permits for five years, and permit requirements remain active until a new permit has been adopted.

Caltrans' municipal separate storm sewer systems permit, Order No. 2012-0011-DWQ (adopted on September 19, 2012 and effective on July 1, 2013), as amended by Order No. 2014-0006-EXEC (effective January 17, 2014), Order No. 2014-0077-DWQ (effective May 20, 2014) and Order No. 2015-0036-EXEC (conformed and effective April 7, 2015) has three basic requirements:

- 1. Caltrans must comply with the requirements of the Construction General Permit (see below);
- 2. Caltrans must implement a year-round program in all parts of the State to effectively control storm water and non-storm water discharges; and
- 3. Caltrans storm water discharges must meet water quality standards through implementation of permanent and temporary (construction) Best Management Practices, to the maximum extent practicable, and other measures as the State Water Resources Control Board determines to be necessary to meet the water quality standards.

To comply with the permit, Caltrans developed the Statewide Storm Water Management Plan (SWMP) to address storm water pollution controls related to highway planning, design, construction, and maintenance activities throughout California. The SWMP assigns responsibilities within Caltrans for implementing storm water management procedures and

practices as well as training, public education and participation, monitoring and research, program evaluation, and reporting activities. The SWMP describes the minimum procedures and practices Caltrans uses to reduce pollutants in storm water and non-storm water discharges. It outlines procedures and responsibilities for protecting water quality, including the selection and implementation of Best Management Practices. The Project will be programmed to follow the guidelines and procedures outlined in the latest SWMP to address storm water runoff.

### **Construction General Permit**

Construction General Permit, Order No. 2009-0009-DWQ (adopted on September 2, 2009 and effective on July 1, 2010), as amended by Order No. 2010-0014-DWQ (effective February 14, 2011) and Order No. 2012-0006-DWQ (effective on July 17, 2012). The permit regulates storm water discharges from construction sites that result in a Disturbed Soil Area (DSA) of one acre or greater, and/or are smaller sites that are part of a larger common plan of development. By law, all storm water discharges associated with construction activity where clearing, grading, and excavation result in soil disturbance of at least one acre must comply with the provisions of the General Construction Permit. Construction activity that results in soil disturbances of less than one acre is subject to this Construction General Permit if there is potential for significant water quality impairment resulting from the activity as determined by the Regional Water Quality Control Board. Operators of regulated construction sites are required to develop Storm Water Pollution Prevention Plans; to implement sediment, erosion, and pollution prevention control measures; and to obtain coverage under the Construction General Permit.

The Construction General Permit separates projects into Risk Levels 1, 2, or 3. Risk levels are determined during the planning and design phases, and are based on potential erosion and transport to receiving waters. Requirements apply according to the Risk Level determined. For example, a Risk Level 3 (highest risk) project would require compulsory storm water runoff pH and turbidity monitoring, and before construction and after construction aquatic biological assessments during specified seasonal windows. For all projects subject to the permit, applicants are required to develop and implement an effective Storm Water Pollution Prevention Plan. In accordance with Caltrans' SWMP and Standard Specifications, a Water Pollution Control Program (WPCP) is necessary for projects with DSA less than one acre.

#### Section 401 Permitting

Under Section 401 of the Clean Water Act, any project requiring a federal license or permit that may result in a discharge to a water of the U.S. must obtain a 401 Certification, which certifies that the Project will be in compliance with state water quality standards. The most common federal permits triggering 401 Certification are Clean Water Act Section 404 permits issued by the U.S. Army Corps of Engineers. The 401 permit certifications are obtained from the appropriate Regional Water Quality Control Board, dependent on the Project location, and are required before the U.S. Army Corps of Engineers issues a 404 permit.

In some cases, the Regional Water Quality Control Board may have specific concerns with discharges associated with a project. As a result, the Regional Water Quality Control Board may issue a set of requirements known as WDRs under the State Water Code (Porter-Cologne Act) that define activities, such as the inclusion of specific features, effluent limitations, monitoring,

and plan submittals that are to be implemented for protecting or benefiting water quality. WDRs can be issued to address both permanent and temporary discharges of a project.

#### **Affected Environment**

The Los Angeles Region encompasses 10 Watershed Management Areas, which generally consists of a single large watershed with smaller subwatersheds that are tributaries to the main river. The Project Area is within the Los Angeles River watershed, and extends over the Los Angeles River; however, no Project activities will occur in the Los Angeles River itself.

The Los Angeles River Watershed is one of the largest in the region at 824 square miles; the river is 55 miles long. The watershed is also one of the most diverse in terms of land use patterns. Approximately 324 square miles of the watershed are covered by forest or open space land including the area near the headwaters, which originate in the Santa Monica, Santa Susana, and San Gabriel Mountains. The rest of the watershed is highly developed (California Water Boards, 2018b).

#### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on water quality and storm water runoff.

#### ALTERNATIVE 2 (BUILD ALTERNATIVE)

Construction activities have the potential to affect water quality through the transport of pollutants and soil disturbance. Pollutants of concern during construction are trash, petroleum products, concrete, and chemicals. Construction activities could include grading, roadway widening, freeway ramp modifications, and construction of new and modified drainage ditches, berms, and swales, which have the potential to disturb soil in the Project Area.

In accordance with the National Pollutant Discharge Elimination System Construction General Permit, a Storm Water Pollution Prevention Plan would be required. The Storm Water Pollution Prevention Plan would include the development of a Construction Site Monitoring Program, including procedures and methods related to visual monitoring, sampling and analysis plans for pollutants, sediment, turbidity, and pH. In addition, the Storm Water Pollution Prevention Plan would include temporary erosion and sediment control measures. Also, there are no surface waters in the Project Area; therefore, a Section 404 General Permit from the United States Army Corps of Engineers and a Section 401 Water Quality Certification from the Los Angeles Regional Water Quality Control Board are not anticipated.

During operation, oil, grease, and chemical pollutants (e.g., particulates from pavement wear, metals, diesel fuel, etc.) could be discharged into the storm drain system in the Project Area from incidental drippings from vehicles and accidental spills during maintenance activities.

Design Pollution Prevention Best Management Practices (e.g., drainage design follows existing drainage pattern, unlined channels would be kept, as much as possible, to promote infiltration), treatment Best Management Practices, and adherence to operation maintenance protocols would address these potential impacts.

The Project Area includes existing stormwater Best Management Practices adjacent to the roadway, which include gross solids removal devices with screens that prevent solids larger than the screen opening from passing through. The existing gross solids removal devices would be either maintained in place or replaced with Project implementation.

The Project would result in a net increase in impervious surface area as a result of the added auxiliary lane. The additional impervious surface area could increase the volume and velocity of storm water runoff, as well as the amount of pollutants traveling into the drainage system and into downstream receiving waters. However, treatment Best Management Practices would be maintained under the Build Alternative to address these pollutants.

The following Project features will be implemented to reduce impacts on water quality and storm water runoff:

- **PF-WQ-1** During construction, Caltrans' Resident Engineer or designated contractor will ensure that all applicable construction site Best Management Practices follow the latest edition of the Caltrans Construction Site Best Management Practice Manual to address temporary impacts associated with Project construction, including those associated with waste management, non-storm water management, tracking controls, and other Best Management Practices as applicable. In addition to applicable Best Management Practices in the Caltrans Construction Site Best Management Practices will also be implemented:
  - Good housekeeping
  - Erosion control
  - Sediment control
- **PF-WQ-2** During construction, Caltrans' Resident Engineer or designated contractor will ensure compliance with the provision of the National Pollutant Discharge Elimination System General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) (Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination System No. CAS000002 as amended by Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ) and any subsequent amendment or renewal, as they relate to construction activities for the Project. This will include submission of the Permit Registration Documents, including a Notice of Intent, risk assessment, site map, Storm Water Pollution Prevention Plan, annual fee, and signed certification statement to the State Water Resources Control Board via the Stormwater Multi-Application and Report Tracking

System at least seven days prior to the start of construction. Construction activities will not commence until a Waste Discharger Identification number is received from the Stormwater Multi-Application and Report Tracking System. The Storm Water Pollution Prevention Plan will be prepared by a qualified Storm Water Pollution Prevention Plan developer and will meet the requirements of the Construction General Permit:

- Identifying potential pollutant sources associated with construction activities;
- Identifying non-storm water discharges;
- Developing a water quality monitoring and sampling plan;
- Implementing and maintaining Best Management Practices to reduce or eliminate pollutants associated with construction sites.
- **PF-WQ-3** Existing permanent Design Pollution Prevention and treatment Best Management Practices will be protected in place or replaced in-kind to minimize downstream effects, stabilize slopes, control runoff, and treat water quality volume generated from new impervious surface area.
- **PF-WQ-4** Procedures in the Caltrans Stormwater Quality Handbooks, Project Planning and Design Guide will be followed for maintaining existing treatment Best Management Practices (gross solids removal devices) to the Maximum Extent Practicable. Additionally, all treatment Best Management Practices will be consistent with the requirements of applicable permits, including the Caltrans municipal separate storm sewer systems permit, and will be inspected/monitored to ensure effectiveness.

With implementation of these Project features, the Build Alternative would not result in adverse impacts on water quality and storm water runoff.

#### Avoidance, Minimization, and/or Mitigation Measures

Impacts on water quality and storm water runoff would not be adverse; therefore, avoidance, minimization, and/or mitigation measures would not be required.

#### **Cumulative Impacts**

Past urbanization has contributed to degradation of water quality within the Project Study Area. During construction, temporary impacts to water quality include potential soil disturbing activities such as grading, roadway widening, freeway ramp modifications, and construction of new and modified drainage ditches, berms, and swales. During Project operation, oil, grease, and chemical pollutants could be discharged into the storm drain system in the Project Study Area from incidental drippings from vehicles and accidental spills during maintenance activities.

The project would result in an increase in impervious surfaces, which could increase the volume and velocity of storm water runoff, as well as the amount of pollutants traveling into the drainage system and into downstream receiving waters. Therefore, the proposed Project may contribute to adverse cumulative impacts on water quality and storm water runoff. However, the proposed Project would implement treatment Best Management Practices and would comply with all applicable permit requirements and adhere to operation maintenance protocols.

Of the current and future projects listed in **Table 6** above, the I-710 Corridor Project and State Route 91 Central Avenue to Acacia Court Project have potential to contribute to long-term cumulative effects on water quality. Based on the I-710 Corridor Project RDEIR/SDEIS and State Route 91 Central Avenue to Acacia Court Project Draft IS/EA, these projects would each create more than one acre of new impervious surface area (California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2017; California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2020). These projects would be required to implement low impact development practices and permanent water quality best management practices to reduce operational impacts on water quality, in compliance with applicable permits. Although environmental documents were not available for the Uptown Commons and Hamilton Loop projects, these projects would be required to implement avoidance, minimization, and/or mitigation measures to comply with the requirements of CEQA and/or NEPA. These projects would be required to obtain and comply with all applicable permits related to water quality and storm water runoff.

The proposed Project would not result in adverse impacts on water quality and storm water runoff with implementation of Best Management Practices and **PF-WQ-1** through **PF-WQ-4**. Based on the above discussion, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to water quality and storm water runoff and mitigation would not be required.

### 2.2.2 GEOLOGY/SOILS/SEISMIC/TOPOGRAPHY

### **Regulatory Setting**

For geologic and topographic features, the key federal law is the Historic Sites Act of 1935, which establishes a national registry of natural landmarks and protects "outstanding examples of major geological features." Topographic and geologic features are also protected under the California Environmental Quality Act (CEQA).

This section also discusses geology, soils, and seismic concerns as they relate to public safety and project design. Earthquakes are prime considerations in the design and retrofit of structures. Structures are designed using Caltrans' Seismic Design Criteria (SDC). The SDC provides the minimum seismic requirements for highway bridges designed in California. A bridge's category and classification will determine its seismic performance level and which methods are used for estimating the seismic demands and structural capabilities. For more information, please see <u>Caltrans' Division of Engineering Services</u>, <u>Office of Earthquake Engineering</u>, <u>Seismic Design Criteria</u>.

The Los Angeles County General Plan, Safety Element contains the following goal and policies that are applicable to the Project:

- **Goal S1**: An effective regulatory system that prevents or minimizes personal injury, loss of life and property damage due to seismic and geotechnical hazards.
- **Policy S1.1**: Discourage developing in Seismic Hazard and Alquist-Priolo Earthquake Fault Zones.

### Affected Environment

A District Preliminary Geotechnical Report was prepared for the Project in November 2019 to discuss impacts related to geology/soils/seismic/topography.

The Project Area is located within the Los Angeles physiographic basin. The Los Angeles Basin is bounded on the north by the Santa Monica and San Gabriel Mountains, on the east and southeast by the Santa Ana Mountains and the San Joaquin Hills, and on the west and south by the Pacific Ocean. The Los Angeles Basin represents a down-warped block of basement rock overlain by approximately 31,000 feet of sediment.

The Los Angeles physiographic basin is part of the Peninsular Ranges Geomorphic Province. The Peninsular Ranges extend north to the San Gabriel Mountains and south into Mexico to the tip of Baja California. The Peninsular Ranges Province is characterized by alluviated basins, elevated erosion surfaces, and northwest-trending mountain ranges bounded by northwest trending faults.

State Route 91 in this area runs east to west, with elevations ranging between 63 feet and 84 feet Above Mean Sea Level (AMSL). The terrain is relatively flat, with embankments along the freeway to accommodate the overcrossings and undercrossings.

Geologic maps obtained from the United States Geological Survey Map View Website show the Project Area to consist of younger alluvium. The soils present along State Route 91 consists primarily of alternate layers of relatively fine sands, silty sands, sandy silts, and silts. The consistency of fine-grained soils is reported to be predominantly stiff to very stiff, while the shallower layers of sandy soils are loose to medium dense in place, and grade to denser condition with increasing depth.

This Project is located within a seismically active region as a result of being located near the active margin between the North American and Pacific tectonic plates. The principal source of seismic activity is movement along the northwest-trending regional faults such as the San Andreas, San Jacinto, Newport-Inglewood, and Whittier-Elsinore fault zones.

The Project Area is not located within the Alquist-Priolo Earthquake Fault Zone. The nearest Alquist-Priolo Earthquake Fault Zone is the Newport-Inglewood Fault Zone located approximately 3.24 miles (5.21 km) southwest of the Project Area. The information from the Caltrans Fault Database shows that a Magnitude 7.2 earthquake may occur on the Newport-Inglewood Fault. The Caltrans Fault Database shows the nearest faults being the Newport-Inglewood Fault located approximately 3.24 miles (5.21 km) southwest of the Project Area and the Puente Hills (Santa Fe Spring) Fault located approximately 3.29 miles (5.30 km) east of the Project Area.

The Project Area is not within Landslide Seismic Hazard Zone. The topography is relatively flat, and landslides are not considered to be a potential hazard to the Project Area. However, the Project Area is located within a Liquefaction Potential Seismic Hazard Zone. In addition, the Project Area includes historical high-water levels. The historic high depth to groundwater in the Project Area, provided by the California Geological Survey, is approximately 10 to 15 feet below the ground surface (bgs).

Based on review of the available subsurface data, shallow soils underlying the Project Area predominantly consist of relatively loose to medium dense silty sandy earth material, which becomes denser with increasing depth. Due to the soils' classification, the in-situ state of the soils, and the likelihood of earthquake occurrences with relatively high magnitudes, liquefaction/seismic induced settlement is expected to occur in the Project Area.

Oil and gas well locations were obtained from the California Division of Oil, Gas, and Geothermal Resources (DOGGR). There were no wells within 500 feet of the Project Area.

#### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts related to geology/soils/seismic/topography.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

The Project includes roadway improvements that could be susceptible to the effects of seismic shaking due to the nearby faults, liquefaction, seismic embankment stability, and settlement. The Build Alternative would be designed and constructed to meet current highway design standards, including Caltrans Seismic Design Criteria. Therefore, potential impacts would be minimized. Specific recommendations for earthwork, foundation design, pavement design, and hazard mitigation will be provided in the design phase of the Project.

The Project lies within a liquefaction hazard zone, as delineated by the California Geological Survey. Based on the soil type (i.e., loose to medium dense granular soils) and existence of groundwater under the Project site, the District Preliminary Geotechnical Report determined that liquefaction is likely at the site. However, the Project would include replacing existing infrastructure and would not change land use within the Project Area. In addition, the Project would be constructed to current seismic standards. Therefore, potential impacts related to liquefaction would be minimized. Furthermore, a site-specific investigation would be completed during the design phase to evaluate liquefaction potential at specific structure locations and within the Project Area (see **AVM-HW-1** in Section 2.2.4).

The Project Area begins at about 500 feet east of the Los Angeles River, and the center of the Project is about 3,000 feet east of the Los Angeles River. Because of the Project Area's location and the likelihood of liquefaction in the Project Area, lateral spreading will be evaluated during

the design phase. As stated above, the Project would be constructed to current seismic standards. Therefore, potential impacts related to lateral spreading would be minimized.

The proposed retaining walls will be seated on the side slope of the existing freeway embankment and will allow widening of the Eastbound State Route 91 along the Project. During the design phase and upon availability of final profile and cross sections of the walls overall, the seismic slope stability of the walls and embankment will be evaluated using Caltrans Guidelines. As stated above, the Project would be constructed to current seismic standards. Therefore, potential impacts related to slope stability would be minimized.

In general, the erosion potential of soils is expected to be minor to moderate considering the provisions for site drainage, slope planting, and other measures required by Caltrans. **PF-GEO-1**, which requires that all finished slopes be planted with non-water succulent plants as soon as practical after grading, would be implemented to minimize potential erosion. Therefore, potential permanent impacts related to erosion would be minimized.

Construction of the various elements of the Project will likely result in alterations of the landform due to grading. Landform alterations may create erosional impacts to the existing terrain. The more extensive alterations will be from construction of the cuts for retaining walls and fill slopes associated with the ramp and roadway widening. Applying standard engineering techniques during design and construction to prevent erosion can reduce these impacts. Typical erosion control measures include improving drainage control and implementing landscaping after construction. Therefore, potential temporary impacts related to erosion would be minimized.

Corrosion test results are not available for the Project Area; therefore, corrosion potential of onsite soils is not known. A site-specific corrosion study should be performed later during the design phase, and necessary measures will be recommended if the site soils are found to be corrosive to concrete or steel. On-site soils are generally expected to have an expansivity varying from non-expansive to low-expansive potential. Based on the scope of the future work, during the design phase, samples of subgrade soils shall be collected and tested for the expansivity. As stated above, the Project would be constructed to current seismic standards. Therefore, potential impacts related to corrosion and expansivity would be minimized.

As discussed above, the historic groundwater elevation in the Project Area is approximately 10 to 15 feet below the ground surface (bgs). As stated above, a site-specific investigation would be conducted during the design phase to determine groundwater conditions and evaluate liquefaction potential at specific structure locations and within the Project Area (see **AVM-HW-1** in Section 2.2.4, Hazardous Waste/Materials). If groundwater is encountered and dewatering is required during construction activities, groundwater controls would be implemented in accordance with the Caltrans *Field Guide to Construction Site Dewatering* (California Department of Transportation, 2014). Therefore, potential impacts related to liquefaction would be minimized.

With the implementation of **PF-WQ-1** (see Section 2.2.1, Water Quality and Storm Water Runoff), a Storm Water Pollution Prevention Plan would be developed and would include erosion and sediment control measures. In addition, the following Project features will be implemented to reduce impacts related to geology/soils/seismic/topography:

- **PF-GEO-1** All finished slopes will be planted with non-water succulent plants as soon as practical after grading.
- **PF-GEO-2** During construction, the Resident Engineer will ensure that safe work practices in accordance with Caltrans and Cal/OSHA are implemented to mitigate the risk to workers. This includes sloping and/or shoring of excavations to prevent collapse of unstable soils. Sloping and/or shoring of excavations would be constructed in accordance with Caltrans Shoring Manual, Cal/OSHA, and any local standards.
- **PF-GEO-3** During final design, the geotechnical engineer and/or engineering geologist will prepare a quality assurance/quality control plan that will be implemented during construction. The quality assurance/quality control plan is a document that would include requirements for observation, monitoring, and testing by a geotechnical engineer and/or engineering geologist during construction to confirm that geotechnical/geologic recommendations are followed, or if different site conditions are encountered, ensure appropriate changes are made to accommodate such issues. The geotechnical engineer will prepare field observation reports while grading and construction activities are underway.

With implementation of these Project features, the Build Alternative would not result in adverse impacts related to geology/soils/seismic/topography.

#### Avoidance, Minimization, and/or Mitigation Measures

Impacts on geology/soils/seismic/topography would not be adverse; therefore, avoidance, minimization, and/or mitigation measures would not be required.

#### **Cumulative Impacts**

The Project Study Area is in a seismically active region. As discussed above, the proposed Project would be required to comply with all applicable design standards, building codes, and permits, such that impacts related to geology/soils/seismic/topography would be substantially minimized. Furthermore, geological effects would be localized at the project site and are not anticipated to affect regional geology. The proposed Project would not result in adverse long-term effects on geology/soils/seismic/topography; therefore, the proposed Project would not contribute to a cumulative impact on geology/soils/seismic/topography and no further analysis is required.

### 2.2.3 PALEONTOLOGY

### **Regulatory Setting**

Paleontology is a natural science focused on the study of ancient animal and plant life as it is preserved in the geologic record as fossils.

Under California law, paleontological resources are protected by the California Environmental Quality Act (CEQA).

### Affected Environment

A combined Paleontological Identification and Evaluation Report was prepared for the Project in July 2020 to discuss impacts on paleontological resources.

Geology maps of the Project Area indicate that the Project is located on young alluvial fan and valley deposits. Locally, these deposits are composed of poorly consolidated and poorly sorted sand and silt, with lesser amounts of clay, gravel, and cobbles deposited during the late Pleistocene Epoch (approximately 2.5 million to 11,700 years ago) and the Holocene Epoch (approximately 11,700 years ago to today).

According to paleontological record searches performed through the Natural History Museum of Los Angeles County, the University of San Diego Museum of Paleontology, the San Diego Natural History Museum, and other published literature for fossil localities from similar deposits nearby (within 3 miles), two fossil localities are located near the Project Area, including remains of mammoth (*Mammuthus*) to the west in Compton at a depth of 5 feet below the ground surface (bgs); and remains of mammoth (*Mammuthus*), horse (*Equus*), Western camel (*Camelops*), and human (*H. sapiens*) approximately 3 miles east at an unspecified depth.

Young alluvial fan and valley deposits at the surface are likely of Holocene age, are not old enough to have collected or fossilized significant biologic material, and are therefore assigned a low sensitivity. However, they may transition with depth (assumed to be at 5 feet bgs) into older, Pleistocene-age deposits.

Pleistocene deposits have produced an extensive vertebrate fossil record throughout southern California. Some of these fossils are endemic, renowned taxa such as mammoths, mastodons, ground sloth, and sabre-tooth cats. By virtue of their geologically young age, these taxa are also contemporaneous with many modern taxa, and contribute to the scientific knowledge of their evolutionary history. In addition to vertebrates, microfossils such as warm water diatoms and pollen from Pleistocene deposits have helped reconstruct past climates in the geologic record. In addition, the nearby meandering Los Angeles River would have produced deposits that were highly conducive to the preservation and fossilization of Pleistocene fauna, which combined with the documented fossil localities nearby in similar deposits, would result in a high paleontological sensitivity for Pleistocene sediments in the Project Area.

#### **Environmental Consequences**

#### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on paleontological resources.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

Portions of the Project improvements are located in areas identified as having high paleontological sensitivity at greater than 5 feet below the original ground surface. Project components that would extend to these depths include excavation of piles to 100 feet bgs for the proposed bridge widenings, and potentially for wall footings or overhead sign footings. Two fossil localities are documented nearby in sediments similar to those underlying the Project.

Based on the positive results (previously documented nearby fossil localities and high paleontological sensitivity of underlying sediments at depth), a Paleontological Mitigation Plan will be prepared during the design phase of the Project to mitigate potential impacts on paleontological resources (see **MM-PALEO-1** through **MM-PALEO-7** below under Avoidance, Minimization, and/or Mitigation Measures). With implementation of these mitigation measures, the Build Alternative would not result in adverse impacts on paleontological resources.

#### Avoidance, Minimization, and/or Mitigation Measures

The following mitigation measures will be implemented to mitigate potential impacts on paleontological resources:

- A Paleontological Mitigation Plan, following the Caltrans SER, Chapter 8, will MM-PALEO-1 be prepared by a Principal Paleontologist. MM-PALEO-2 The Principal Paleontologist will attend the pre grade meeting. At this meeting, the Paleontologist will explain the likelihood for encountering paleontological resources, what resources may be discovered, and the methods of recovery that will be employed. MM-PALEO-3 During construction excavation, a qualified Paleontological Monitor shall be present on a full-time basis initially whenever excavation will occur within the sediments that have a high paleontological sensitivity (greater than 5 feet below the original ground surface) and on a spot-check basis for excavation in sediments that have low sensitivity (non-fill sediment above 5 feet bgs). Monitoring may be reduced to a part-time basis if no resources are being discovered in sediments with a high sensitivity rating (monitoring reductions, when they occur, will be determined by the qualified Principal Paleontologist).
- **MM-PALEO-4** The Monitor shall inspect fresh cuts and/or spoils piles to recover paleontological resources. The monitor shall be empowered to temporarily divert construction equipment away from the immediate area of the discovery. The monitor shall be equipped to rapidly stabilize and remove fossils to avoid prolonged delays to construction schedules. If large mammal fossils or large concentrations of fossils are encountered, Caltrans will consider using heavy equipment on site to assist in the removal and collection of large materials. Localized concentrations of small (or micro-)

vertebrates may be found in all native sediments. Therefore, it is recommended that these sediments occasionally be spot-screened on site through 1/8 - to 1/20-inch mesh screens to determine whether microfossils are present. If microfossils are encountered, sediment samples (up to 6,000 pounds) shall be collected and processed through 1/20-inch mesh screens to recover additional fossils.

- **MM-PALEO-5** Recovered specimens shall be prepared to the point of identification and permanent preservation. This includes the sorting of any washed mass samples to recover small invertebrate and vertebrate fossils, the removal of surplus sediment from around larger specimens to reduce the volume of storage for the repository and storage cost, and the addition of approved chemical hardeners/stabilizers to fragile specimens.
- **MM-PALEO-6** Specimens shall be identified to the lowest taxonomic level possible and curated into an institutional repository with retrievable storage. The repository institutions usually charge a one-time fee based on volume, so removing surplus sediment is important. The repository institution may be a local museum or university with a curator who can retrieve the specimens on request. Caltrans requires that a draft curation agreement be in place with an approved curation facility prior to the initiation of any paleontological monitoring or mitigation activities.
- **MM-PALEO-7** A Paleontological Mitigation Report documenting completion of the Paleontological Mitigation Plan for the Lead Agency (Caltrans) will be prepared and submitted.

With implementation of these mitigation measures, the Build Alternative would not result in adverse impacts on paleontological resources.

#### **Cumulative Impacts**

The Project Study Area has high paleontological sensitivity for Pleistocene sediments despite extensive disturbance from past and ongoing development activities. The paleontological sensitivity is at greater than 5 feet below the original ground surface and some project components would extend to these depths, including excavation of piles to approximately 100 feet bgs for the proposed bridge widenings, and potentially for wall footings or overhead sign footings. Two fossil localities were documented nearby in sediments similar to those underlying the Project, and high paleontological sensitivity of underlying sediments at depth would require implementation of mitigation measures **MM-PALEO-1** through **MM-PALEO-7**. These measures include preparing a Paleontological Mitigation Plan during the design phase of the Project and would avoid or minimize impacts to paleontological resources.

Of the current and future projects listed in **Table 6** above, both the I-710 Corridor Project and State Route 91 Central Avenue to Acacia Court Project would require deep excavations that have potential to impact paleontological resources (California Department of Transportation

and Los Angeles County Metropolitan Transportation Authority, 2017; California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2020). These projects would require implementation of Paleontological Mitigation Plans that would include paleontological monitoring and recovery of paleontological resources that may be encountered during project construction to reduce potential impacts to paleontological resources. Although environmental documents were not available for the Uptown Commons and Hamilton Loop projects, these projects would be required to implement avoidance, minimization, and/or mitigation measures to comply with the requirements of CEQA and/or NEPA. If these projects would also be required to implement Paleontological Mitigation Plans to prevent adverse impacts on paleontological resources.

Based on the above discussion, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to paleontology with implementation of mitigation measures **MM-PALEO-1** through **MM-PALEO-7** above.

### 2.2.4 HAZARDOUS WASTE/MATERIALS

### **Regulatory Setting**

Hazardous materials, including hazardous substances and wastes, are regulated by many state and federal laws. Statutes govern the generation, treatment, storage and disposal of hazardous materials, substances, and waste, and also the investigation and mitigation of waste releases, air and water quality, human health, and land use.

The primary federal laws regulating hazardous wastes/materials are the <u>Comprehensive</u> <u>Environmental Response</u>, <u>Compensation and Liability Act (CERCLA) of 1980</u>, and the <u>Resource</u> <u>Conservation and Recovery Act (RCRA) of 1976</u>. The purpose of CERCLA, often referred to as "Superfund," is to identify and cleanup abandoned contaminated sites so that public health and welfare are not compromised. The RCRA provides for "cradle to grave" regulation of hazardous waste generated by operating entities. Other federal laws include:

- Community Environmental Response Facilitation Act of 1992
- Clean Water Act
- Clean Air Act
- Safe Drinking Water Act
- Occupational Safety and Health Act (OSHA)
- Atomic Energy Act
- Toxic Substances Control Act (TSCA)
- Federal Insecticide, Fungicide, and Rodenticide Act

In addition to the acts listed above, Executive Order 12088, *Federal Compliance with Pollution Control Standards*, mandates that necessary actions be taken to prevent and control environmental pollution when federal activities or federal facilities are involved.

California regulates hazardous materials, waste, and substances under the authority of the <u>CA</u> <u>Health and Safety Code</u> and is also authorized by the federal government to implement RCRA in the state. California law also addresses specific handling, storage, transportation, disposal, treatment, reduction, cleanup, and emergency planning of hazardous waste. The Porter-Cologne Water Quality Control Act also restricts disposal of wastes and requires cleanup of wastes that are below hazardous waste concentrations but could impact ground and surface water quality. California regulations that address waste management and prevention and cleanup of contamination include Title 22 Division 4.5 Environmental Health Standards for the Management of Hazardous Waste, Title 23 Waters, and Title 27 Environmental Protection.

Worker and public health and safety are key issues when addressing hazardous materials that may affect human health and the environment. Proper management and disposal of hazardous material is vital if it is found, disturbed, or generated during project construction.

#### Affected Environment

An Initial Site Assessment (ISA) was prepared for the Project in June 2020 to discuss potential impacts related to hazardous waste/materials. This ISA was prepared in accordance with the ASTM Standard E1527-13, including additional elements as required by Caltrans District 7 Environmental Protocol Procedure and Deliverable Requirements (rev. 2, 11/22/2019) for ISA Reports.

Based on a review of the database report(s) provided by Environmental Data Resources, no known hazardous material sources or releases were identified within the Project Study Area.

There are no acquisitions required for the Project. However, an interview was conducted with a Caltrans employee who is most knowledgeable about the property. Antonio Garcia, the Maintenance Superintendent for the Project Area, was contacted on Wednesday, March 25, 2020 to ask applicable questions given by the ASTM E1527-13 standard. The interview did not reveal any issues of concern or that required follow-up.

The ISA identified other potential issues in the Project Area, which are summarized in the sections below. Further site investigations would be completed during the design phase to determine the concentrations of these contaminants and the level and extent of contamination in relationship to the Project.

#### AERIALLY DEPOSITED LEAD

Elevated lead concentrations exist in soils along older roadways as a result of aerially-deposited lead (ADL) from the historic use of leaded gasoline.

#### **O**RGANOCHLORIDE **P**ESTICIDES

The Project Area was historically used for ranch-style housing and agriculture. It is possible that organochloride pesticides are contained with the soil from the previous land use.

#### ASBESTOS-CONTAINING MATERIAL

Bridge components and bridge concrete, including retaining walls and soundwalls that are connected to retaining walls or other structures, may contain asbestos-containing material (ACM).

#### LEAD BASED PAINT

The removal of existing yellow thermoplastic traffic striping and pavement marking has potential to produce hazardous waste residue and contain lead-based paint (LBP).

#### TREATED WOOD WASTE

Wood posts removed from existing guardrails and roadside signs have potential to be considered treated wood waste.

#### **Environmental Consequences**

#### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts related to hazardous waste/materials.

#### ALTERNATIVE 2 (BUILD ALTERNATIVE)

To remove and reconstruct existing soundwalls and retaining walls, it is estimated that soil impacts are up to 15 feet vertical, and up to 30 feet horizontal, based on the average wall height in Caltrans standard plan requirements. Excavation of piles to 100 feet below the ground surface (bgs) may be required for the proposed bridge widenings, and potentially for wall footings or overhead sign footings.

Aerially deposited lead (ADL) from the historical use of leaded gasoline, exists along roadways throughout California. There is the likely presence of soils with elevated concentrations of lead as a result of ADL on the state highway system right of way within the limits of the Build Alternative. Soil determined to contain lead concentrations exceeding stipulated thresholds must be managed under the July 1, 2016, ADL Agreement between Caltrans and the California Department of Toxic Substances Control. This ADL Agreement allows such soils to be safely reused within the Project limits as long as all requirements of the ADL Agreement are met.

The following hazardous materials/waste issues have also been identified in the Project Area:

- Bridge components and bridge concrete, including retaining walls and soundwalls that are connected to retaining walls or other structures, may contain ACM. The following bridges between Atlantic and Cherry Avenues have potential to contain ACM and LBP:
  - Atlantic Avenue Undercrossing (Bridge # 53-2124)

- Myrtle Avenue Undercrossing (Bridge #53-2121)
- Orange Avenue Undercrossing (Bridge #53-2122)
- Walnut Avenue Undercrossing (Bridge #53-2127)
- The Project Area includes historical high-water levels (10 to 15 feet bgs); therefore, there is potential for groundwater to be encountered during construction, which may be contaminated. If groundwater is encountered during soil sampling, the groundwater should be sampled and analyzed for at least total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), and metals; this is to ensure worker safety and for waste profiling purposes.
- The Project Area was historically used for ranch-style housing and agriculture. It is possible that organochloride pesticides are contained with the soil from the land use at this time.
- The Project also assumes all wood posts removed from existing guardrails and roadside signs are treated wood waste.

With the implementation of avoidance and minimization measures (see **AVM-HW-1** through **AVM-HW-4** below under Avoidance, Minimization, and/or Mitigation Measures), the Build Alternative would not result in adverse impacts related to hazardous waste/materials.

#### Avoidance, Minimization, and/or Mitigation Measures

The following avoidance and minimization measures will be implemented to reduce impacts related to hazardous waste/materials:

- **AVM-HW-1** A subsurface investigation would be required during the design phase to confirm the depth to groundwater is between 10 to 15 feet, as well to determine actual groundwater flow direction, if needed. If groundwater is encountered at this time, additional sampling and analysis of the groundwater would be warranted to ensure worker safety and for waste profiling purposes.
- **AVM-HW-2** A soil site investigation (SI) for aerial deposits of lead (ADL) and organochlorine pesticides would be conducted to the maximum lateral and vertical extent of proposed soil excavation for all unpaved areas, including roadway improvements, retaining walls and soundwalls, overhead signs and traffic signs. This shall be done during the design phase.
- AVM-HW-3 Asbestos-Containing Material (ACM) and Lead Based Paint (LBP) surveys should be conducted for the 4 bridges within the Project Area during the design phase. ACM and LBP surveys would also be conducted for retaining walls and soundwalls connected to retaining walls or other structures. Freestanding soundwalls do not require ACM or LBP studies.
- **AVM-HW-4** It is assumed that the removal of pavement markings and treated wood will produce hazardous waste. Removal plans for both lead based paint (such as

in yellow thermoplastic striping) and treated wood waste will be determined during the design phase.

With implementation of these avoidance and minimization measures, the Build Alternative would not result in adverse impacts related to hazardous waste/materials.

### **Cumulative Impacts**

Historic land uses within the Project Study Area have contributed to an accumulation of potentially hazardous wastes and materials in man-made structures, soils, and groundwater. As discussed above, the proposed Project's effects related to hazardous waste would be minor in the short-term and potentially beneficial in the long-term with implementation of avoidance and minimization measures and the removal of hazardous materials from the Project Study Area. The proposed Project would not result in adverse long-term effects on hazardous wastes and materials; therefore, the proposed Project would not contribute to a cumulative impact on hazardous wastes and materials and no further analysis is required.

### 2.2.5 AIR QUALITY

### **Regulatory Setting**

The Federal Clean Air Act, as amended, is the primary federal law that governs air quality while the California Clean Air Act (CCAA) is its companion state law. These laws, and related regulations by the United States Environmental Protection Agency (U.S. EPA) and the California Air Resources Board, set standards for the concentration of pollutants in the air. At the federal level, these standards are called National Ambient Air Quality Standards. National Ambient Air Quality Standards and state ambient air quality standards have been established for six criteria pollutants that have been linked to potential health concerns: carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), ozone (O<sub>3</sub>), particulate matter (PM) —which is broken down for regulatory purposes into particles of 10 micrometers or smaller (PM<sub>10</sub>) and particles of 2.5 micrometers and smaller (PM<sub>2.5</sub>), Lead (Pb), and sulfur dioxide (SO<sub>2</sub>). In addition, state standards exist for visibility reducing particles, sulfates, hydrogen sulfide (H<sub>2</sub>S), and vinyl chloride. The National Ambient Air Quality Standards and state standards are set at levels that protect public health with a margin of safety and are subject to periodic review and revision. Both state and federal regulatory schemes also cover toxic air contaminants (air toxics); some criteria pollutants are also air toxics or may include certain air toxics in their general definition.

Federal air quality standards and regulations provide the basic scheme for project-level air quality analysis under the National Environmental Policy Act (NEPA). In addition to this environmental analysis, a parallel "Conformity" requirement under the Federal Clean Air Act also applies.

#### Conformity

The conformity requirement is based on Federal Clean Air Act Section 176(c), which prohibits the U.S. Department of Transportation (USDOT) and other federal agencies from funding, authorizing, or approving plans, programs, or projects that do not conform to State Implementation Plan for attaining the National Ambient Air Quality Standards. "Transportation

Conformity" applies to highway and transit projects and takes place on two levels: the regional (or planning and programming) level and the Project level. The Project must conform at both levels to be approved.

Conformity requirements apply only in nonattainment and "maintenance" (former nonattainment) areas for the National Ambient Air Quality Standards, and only for the specific National Ambient Air Quality Standards that are or were violated. U.S. EPA regulations at 40 Code of Federal Regulations (CFR) 93 govern the conformity process. Conformity requirements do not apply in unclassifiable/attainment areas for National Ambient Air Quality Standards and do not apply at all for state standards regardless of the status of the area.

Regional conformity is concerned with how well the regional transportation system supports plans for attaining the National Ambient Air Quality Standards for carbon monoxide (CO), nitrogen dioxide ( $NO_2$ ), ozone ( $O_3$ ), particulate matter ( $PM_{10}$  and  $PM_{2.5}$ ), and in some areas (although not in California), sulfur dioxide (SO<sub>2</sub>). California has nonattainment or maintenance areas for all of these transportation-related "criteria pollutants" except SO<sub>2</sub> and also has a nonattainment area for lead (Pb); however, lead is not currently required by the Federal Clean Air Act to be covered in transportation conformity analysis. Regional conformity is based on emission analysis of Regional Transportation Plans and Federal Transportation Improvement Programs that include all transportation projects planned for a region over a period of at least 20 years (for the Regional Transportation Plan) and 4 years (for the Federal Transportation Improvement Program). Regional Transportation Plan and Federal Transportation Improvement Program conformity uses travel demand and emission models to determine whether or not the implementation of those projects would conform to emission budgets or other tests at various analysis years showing that requirements of the Federal Clean Air Act and the State Implementation Plan are met. If the conformity analysis is successful, the Metropolitan Planning Organization (MPO), Federal Highway Administration, and Federal Transit Administration (FTA) make the determinations that the Regional Transportation Plan and Federal Transportation Improvement Program are in conformity with the State Implementation Plan for achieving the goals of the Federal Clean Air Act. Otherwise, the Projects in the Regional Transportation Plan and/or Federal Transportation Improvement Program must be modified until conformity is attained. If the design concept and scope and the "open-to-traffic" schedule of a proposed transportation project are the same as described in the Regional Transportation Plan and Federal Transportation Improvement Program, then the proposed Project meets regional conformity requirements for purposes of project-level analysis.

Project-level conformity is achieved by demonstrating that the Project comes from a conforming Regional Transportation Plan and Transportation Improvement Program; the Project has a design concept and scope that has not changed significantly from those in the Regional Transportation Plan and Transportation Improvement Program ("Design concept" means the type of facility that is proposed, such as a freeway or arterial highway. "Design scope" refers to those aspects of the Project that would clearly affect capacity and thus any regional emissions analysis, such as the number of lanes and the length of the Project.); project analyses have used the latest planning assumptions and U.S. EPA-approved emissions models; and in PM areas, the Project complies with any control measures in the State Implementation Plan. Furthermore, additional analyses (known as hot-spot analyses) may be required for projects located in CO and PM nonattainment or maintenance areas to examine localized air quality impacts.

### **Affected Environment**

An Air Quality Report was prepared for the Project in November 2020 to discuss potential impacts on air quality.

The Project Area is located in Los Angeles County, which is within the South Coast Air Basin. The South Coast Air Basin consists of an approximately 6,600-square mile area bound by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The South Coast Air Basin includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, in addition to the San Gorgonio Pass area of Riverside County. The South Coast Air Basin's terrain and geographical location (i.e., a coastal plain with connecting broad valleys and low hills) contribute to its distinctive climate. Primary factors known to influence air quality within the South Coast Air Basin include topography and meteorology, which can affect pollutant transport and dispersion from sources located within and outside of the South Coast Air Basin.

The annual average temperature varies little throughout the South Coast Air Basin averaging approximately 62 degrees Fahrenheit (°F). Based on historical data collected from the Los Beach Airport (Daugherty Field), average temperatures range from a January low of approximately 45.6 °F to an August high of approximately 83.9 °F.

Average wind speeds in the South Coast Air Basin are light and primarily from the west. Mild sea breezes slowly carry pollutants inland. In the general vicinity of the Project Area, historical wind flow is predominantly from the northwest with an average annual wind speed of approximately six miles per hour (mph).

Under normal meteorological conditions, the temperature of the atmosphere decreases with increased altitude. However, when the temperature of the atmosphere increases with altitude, the phenomenon is termed an inversion. These inversions can restrict the vertical mixing of air and pollutants, which can contribute to increased ground-level pollutant concentrations.

In the South Coast Air Basin, two distinct temperature inversion types commonly occur. The first type of inversion typically occurs during the warmer summer months when high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. The second inversion type primarily occurs in the winter, when nights are longer and onshore airflow is weakest. This inversion occurs in conjunction with the nighttime drainage of cool air from the surrounding mountains followed by the seaward drift of this pool of cool air. In general, inversions in the South Coast Air Basin are lower before sunrise than during the daylight hours. As the day progresses, the mixing height normally increases as the warming of the ground heats the surface air layer. The breakup of inversion layers frequently occurs during mid- to late-afternoon on hot summer days. Winter inversions usually break up by mid-morning (SCAQMD 1980, 2002).

The South Coast Air Basin is surrounded by mountains on three sides and the Pacific Ocean on the remaining side. The mountains serve as a barrier, preventing ready dispersion of pollutant concentrations. Prevailing wind patterns off the ocean carry pollutants eastward across the South Coast Air Basin, enabling continual photochemical reactions to occur as new emissions
are added to existing pollutant concentrations. Intense sunlight, present at the latitude of the South Coast Air Basin, provides the ultraviolet light necessary to fuel the photochemical reactions that produce  $O_3$ .

The Clean Air Act requires the U.S. EPA to set National Ambient Air Quality Standards for six criteria air contaminants: ozone, particulate matter, carbon monoxide, nitrogen dioxide, lead, and sulfur dioxide. It also permits states to adopt additional or more protective air quality standards if needed. California has set standards for certain pollutants. **Table 27** documents the current air quality standards, while **Table 28** summarizes the sources and health effects of the six criteria pollutants and pollutants regulated in the state of California.

The state and national attainment status designations pertaining to the South Coast Air Basin are summarized in **Table 29**. The South Coast Air Basin is currently designated as a nonattainment area with respect to the state and federal  $O_3$  and  $PM_{2.5}$  standards and state  $PM_{10}$  standards. In addition, based on monitoring data obtained near a lead acid battery reclamation facility, Los Angeles County is currently designated nonattainment for the federal lead standards. With the exception of Los Angeles County, the remainder of the South Coast Air Basin is designated attainment for the lead standards. Federal standards designate  $PM_{10}$ , CO, and  $NO_2$  as attainment/maintenance. The South Coast Air Basin is designated attainment or unclassified for the remaining State and Federal standards.

### SENSITIVE LAND USES

Some land uses are considered more sensitive to changes in air quality than others, depending on the demographic characteristics of occupants, and activities involved within the specific area. Sensitive land uses include residential areas, hospitals, elder-care facilities, rehabilitation centers, elementary schools, daycare centers, and parks. Residential areas adjacent to the freeway are considered sensitive to air pollution because residents, including children and elderly residents, tend to be at home for extended periods of time, resulting in sustained exposure to pollutants. Sensitive land uses adjacent to the Project Area consist predominantly of residences, and also include an educational facility, a place of worship, and a community facility.

| Ambient Air Quality Standards                     |                            |                                    |                                                              |                                                            |                                      |                                                   |  |  |
|---------------------------------------------------|----------------------------|------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|--------------------------------------|---------------------------------------------------|--|--|
| Dollutant                                         | Averaging                  | California S                       | National Standards <sup>2</sup>                              |                                                            |                                      |                                                   |  |  |
| Fonutant                                          | Time                       | Concentration <sup>3</sup>         | Method <sup>4</sup>                                          | Primary 3,5                                                | Secondary 3,6                        | Method <sup>7</sup>                               |  |  |
| Ozone (O <sub>3</sub> ) <sup>8</sup>              | 1 Hour                     | 0.09 ppm (180 µg/m <sup>3</sup> )  | Ultraviolet                                                  | _                                                          | Same as                              | Ultraviolet                                       |  |  |
|                                                   | 8 Hour                     | 0.070 ppm (137 µg/m <sup>3</sup> ) | Photometry                                                   | 0.070 ppm (137 µg/m <sup>3</sup> )                         | Primary Standard                     | Photometry                                        |  |  |
| Respirable<br>Particulate                         | 24 Hour                    | 50 µg/m <sup>3</sup>               | Gravimetric or                                               | 150 µg/m <sup>3</sup>                                      | Same as                              | Inertial Separation                               |  |  |
| Matter (PM10) <sup>9</sup>                        | Annual<br>Arithmetic Mean  | 20 µg/m <sup>3</sup>               | Beta Attenuation                                             | -                                                          | Primary Standard                     | Analysis                                          |  |  |
| Fine<br>Particulate                               | 24 Hour                    | -                                  | _                                                            | 35 µg/m <sup>3</sup>                                       | Same as<br>Primary Standard          | Inertial Separation                               |  |  |
| Matter<br>(PM2.5) <sup>9</sup>                    | Annual<br>Arithmetic Mean  | 12 µg/m³                           | Gravimetric or<br>Beta Attenuation                           | 12.0 µg/m <sup>3</sup>                                     | 15 µg/m³                             | Analysis                                          |  |  |
| Carbon                                            | 1 Hour                     | 20 ppm (23 mg/m <sup>3</sup> )     | Nee Diseaseire                                               | 35 ppm (40 mg/m <sup>3</sup> )                             | _                                    | Non Discouring                                    |  |  |
| Monoxide                                          | 8 Hour                     | 9.0 ppm (10 mg/m <sup>3</sup> )    | Infrared Photometry<br>(NDIR)                                | 9 ppm (10 mg/m <sup>3</sup> )                              | _                                    | Infrared Photometry<br>(NDIR)                     |  |  |
| (00)                                              | 8 Hour<br>(Lake Tahoe)     | 6 ppm (7 mg/m <sup>3</sup> )       |                                                              | -                                                          | _                                    |                                                   |  |  |
| Nitrogen<br>Dioxide                               | 1 Hour                     | 0.18 ppm (339 µg/m <sup>3</sup> )  | Gas Phase                                                    | 100 ppb (188 µg/m <sup>3</sup> )                           | _                                    | Gas Phase                                         |  |  |
| (NO <sub>2</sub> ) <sup>10</sup>                  | Annual<br>Arithmetic Mean  | 0.030 ppm (57 µg/m <sup>3</sup> )  | Chemiluminescence                                            | 0.053 ppm (100 µg/m <sup>3</sup> )                         | Same as<br>Primary Standard          | Griemiluminescence                                |  |  |
|                                                   | 1 Hour                     | 0.25 ppm (655 µg/m <sup>3</sup> )  |                                                              | 75 ppb (196 µg/m <sup>3</sup> )                            | _                                    |                                                   |  |  |
| Sulfur Dioxide                                    | 3 Hour                     | _                                  | Ultraviolet                                                  | _                                                          | 0.5 ppm<br>(1300 µg/m <sup>3</sup> ) | Ultraviolet<br>Flourescence;<br>Spectrophotometry |  |  |
| (SO <sub>2</sub> ) <sup>11</sup>                  | 24 Hour                    | 0.04 ppm (105 µg/m <sup>3</sup> )  | Fluorescence                                                 | 0.14 ppm<br>(for certain areas) <sup>11</sup>              | _                                    | (Pararosaniline<br>Method)                        |  |  |
|                                                   | Annual<br>Arithmetic Mean  | -                                  |                                                              | 0.030 ppm<br>(for certain areas) <sup>11</sup>             | _                                    |                                                   |  |  |
|                                                   | 30 Day Average             | 1.5 µg/m <sup>3</sup>              |                                                              | -                                                          | -                                    |                                                   |  |  |
| Lead <sup>12,13</sup>                             | Calendar Quarter           | -                                  | Atomic Absorption                                            | 1.5 μg/m <sup>3</sup><br>(for certain areas) <sup>12</sup> | Same as                              | High Volume<br>Sampler and Atomic<br>Absorption   |  |  |
|                                                   | Rolling 3-Month<br>Average | -                                  |                                                              | 0.15 µg/m <sup>3</sup>                                     | Primary Standard                     | Absorption                                        |  |  |
| Visibility<br>Reducing<br>Particles <sup>14</sup> | 8 Hour                     | See footnote 14                    | Beta Attenuation and<br>Transmittance<br>through Filter Tape | No                                                         |                                      |                                                   |  |  |
| Sulfates                                          | 24 Hour                    | 25 µg/m <sup>3</sup>               | Ion Chromatography                                           | National                                                   |                                      |                                                   |  |  |
| Hydrogen<br>Sulfide                               | 1 Hour                     | 0.03 ppm (42 µg/m <sup>3</sup> )   | Ultraviolet<br>Fluorescence                                  |                                                            | Standards                            |                                                   |  |  |
| Vinyl<br>Chloride <sup>12</sup>                   | 24 Hour                    | 0.01 ppm (26 µg/m <sup>3</sup> )   | Gas<br>Chromatography                                        |                                                            |                                      |                                                   |  |  |

#### Table 27: State and Federal Ambient Air Quality Standards

For more information please call ARB-PIO at (916) 322-2990

#### California Air Resources Board (5/4/16)

- California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and
  particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be
  equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the
  California Code of Regulations.
- 2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m<sup>3</sup> is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
- 3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
- 5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- 7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
- 8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 μg/m<sup>3</sup> to 12.0 μg/m<sup>3</sup>. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 μg/m<sup>3</sup>, as was the annual secondary standard of 15 μg/m<sup>3</sup>. The existing 24-hour PM10 standards (primary and secondary) of 150 μg/m<sup>3</sup> also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 11. On June 2, 2010, a new 1-hour SO<sub>2</sub> standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO<sub>2</sub> national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

- 12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- 13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 μg/m<sup>3</sup> as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (5/4/16)

| Pollutant                                               | Principal Health and Atmospheric Effects                                                                                                                                                                                                                                                                                             | Typical Sources                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ozone (O3)                                              | High concentrations irritate lungs. Long-term<br>exposure may cause lung tissue damage<br>and cancer. Long-term exposure damages<br>plant materials and reduces crop<br>productivity. Precursor organic compounds<br>include many known toxic air contaminants.<br>Biogenic VOC may also contribute.                                 | Low-altitude ozone is almost entirely formed<br>from reactive organic gases/volatile organic<br>compounds (ROG or VOC) and nitrogen<br>oxides (NOx) in the presence of sunlight and<br>heat. Common precursor emitters include<br>motor vehicles and other internal combustion<br>engines, solvent evaporation, boilers,<br>furnaces, and industrial processes. |
| Carbon Monoxide<br>(CO)                                 | CO interferes with the transfer of oxygen to<br>the blood and deprives sensitive tissues of<br>oxygen. CO also is a minor precursor for<br>photochemical ozone. Colorless, odorless.                                                                                                                                                 | Combustion sources, especially gasoline-<br>powered engines and motor vehicles. CO is<br>the traditional signature pollutant for on-road<br>mobile sources at the local and neighborhood<br>scale.                                                                                                                                                              |
| Respirable<br>Particulate Matter<br>(PM <sub>10</sub> ) | Irritates eyes and respiratory tract.<br>Decreases lung capacity. Associated with<br>increased cancer and mortality. Contributes<br>to haze and reduced visibility. Includes<br>some toxic air contaminants. Many toxic &<br>other aerosol and solid compounds are part<br>of PM <sub>10</sub> .                                     | Dust- and fume-producing industrial and<br>agricultural operations; combustion smoke &<br>vehicle exhaust; atmospheric chemical<br>reactions; construction and other dust-<br>producing activities; unpaved road dust and<br>re-entrained paved road dust; natural<br>sources.                                                                                  |
| Fine Particulate<br>Matter (PM <sub>2.5</sub> )         | Increases respiratory disease, lung damage,<br>cancer, and premature death. Reduces<br>visibility and produces surface soiling. Most<br>diesel exhaust particulate matter – a toxic air<br>contaminant – is in the PM <sub>2.5</sub> size range.<br>Many toxic &other aerosol and solid<br>compounds are part of PM <sub>2.5</sub> . | Combustion including motor vehicles, other<br>mobile sources, and industrial activities;<br>residential and agricultural burning; also<br>formed through atmospheric chemical and<br>photochemical reactions involving other<br>pollutants including NOx, sulfur oxides (SOx),<br>ammonia, and ROG.                                                             |
| Nitrogen Dioxide<br>(NO2)                               | Irritating to eyes and respiratory tract. Colors<br>atmosphere reddish-brown. Contributes to<br>acid rain & nitrate contamination of<br>stormwater. Part of the "NOx" group of<br>ozone precursors.                                                                                                                                  | Motor vehicles and other mobile or portable engines, especially diesel; refineries; industrial operations.                                                                                                                                                                                                                                                      |
| Sulfur Dioxide<br>(SO <sub>2</sub> )                    | Irritates respiratory tract; injures lung tissue.<br>Can yellow plant leaves. Destructive to<br>marble, iron, steel. Contributes to acid rain.<br>Limits visibility.                                                                                                                                                                 | Fuel combustion (especially coal and high-<br>sulfur oil), chemical plants, sulfur recovery<br>plants, metal processing; some natural<br>sources like active volcanoes. Limited<br>contribution possible from heavy-duty diesel<br>vehicles if ultra-low sulfur fuel not used.                                                                                  |
| Lead (Pb)                                               | Disturbs gastrointestinal system. Causes<br>anemia, kidney disease, and neuromuscular<br>and neurological dysfunction. Also a toxic air<br>contaminant and water pollutant.                                                                                                                                                          | Lead-based industrial processes like battery<br>production and smelters. Lead paint, leaded<br>gasoline. Aerially deposited lead from older<br>gasoline use may exist in soils along major<br>roads.                                                                                                                                                            |
| Sulfates                                                | Premature mortality and respiratory effects.<br>Contributes to acid rain. Some toxic air<br>contaminants attach to sulfate aerosol<br>particles.                                                                                                                                                                                     | Industrial processes, refineries and oil fields,<br>mines, natural sources like volcanic areas,<br>salt-covered dry lakes, and large sulfide rock<br>areas.                                                                                                                                                                                                     |
| Hydrogen Sulfide<br>(H <sub>2</sub> S)                  | Colorless, flammable, poisonous.<br>Respiratory irritant. Neurological damage<br>and premature death. Headache, nausea.<br>Strong odor.                                                                                                                                                                                              | Industrial processes such as: refineries and<br>oil fields, asphalt plants, livestock operations,<br>sewage treatment plants, and mines. Some<br>natural sources like volcanic areas and hot<br>springs.                                                                                                                                                        |

### Table 28: Air Pollutant Effects and Sources

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

| Pollutant                              | Principal Health and Atmospheric Effects                                                                                                                                                                                                                                                                  | Typical Sources                                                                        |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Visibility Reducing<br>Particles (VRP) | Reduces visibility. Produces haze. NOTE:<br>not directly related to the Regional Haze<br>program under the Federal Clean Air Act,<br>which is oriented primarily toward visibility<br>issues in National Parks and other "Class I"<br>areas. However, some issues and<br>measurement methods are similar. | See particulate matter above. May be related more to aerosols than to solid particles. |
| Vinyl Chloride                         | Neurological effects, liver damage, cancer.<br>Also considered a toxic air contaminant.                                                                                                                                                                                                                   | Industrial processes                                                                   |

### Table 29: State and Federal Attainment Status

| Pollutant                                    | State Attainment Status           | Federal Attainment Status               |
|----------------------------------------------|-----------------------------------|-----------------------------------------|
| Ozone (O <sub>3</sub> )                      | Nonattainment (1-hour and 8-hour) | Extreme Nonattainment (8-hour)          |
| Respirable Particulate Matter (PM10)         | Nonattainment                     | Attainment/Maintenance                  |
| Fine Particulate Matter (PM <sub>2.5</sub> ) | Nonattainment                     | Nonattainment                           |
| Carbon Monoxide (CO)                         | Attainment                        | Attainment/Maintenance                  |
| Nitrogen Dioxide (NO2)                       | Attainment                        | Attainment/Maintenance                  |
| Sulfur Dioxide (SO <sub>2</sub> )            | Attainment/Unclassified           | Attainment/Unclassified                 |
| Lead (Pb)                                    | Attainment                        | Nonattainment (Los Angeles County only) |
| Visibility-Reducing Particles                | Attainment/Unclassified           | N/A                                     |
| Sulfates                                     | Attainment/Unclassified           | N/A                                     |
| Hydrogen Sulfide                             | Attainment/Unclassified           | N/A                                     |
| Vinyl Chloride                               | Attainment/Unclassified           | N/A                                     |

### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on air quality.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

Long-term operational emissions of criteria air pollutants associated with the Build Alternative would be associated with the operation of motor vehicles. Long-term operational emissions were quantified using CT-EMFAC2017 version 1.0.2 computer program based on traffic information provided by the Project engineer. Estimated changes in operational emissions are summarized in **Table 30**. Operational emissions were quantified for existing year 2019 (baseline) conditions, No Build Alternative and the Build Alternative conditions for Opening Year 2024 and Design Year 2045 conditions. In comparison to No Build Alternative year 2024 conditions, the proposed Build Alternative is predicted to increase emissions by approximately three percent for PM<sub>2.5</sub>, PM<sub>10</sub>, NO<sub>x</sub> and ROG with a two percent increase for CO. In comparison

to No Build Alternative year 2045 conditions, the proposed Build Alternative is predicted to increase emissions approximately three percent for  $PM_{2.5}$ ,  $PM_{10}$  and  $NO_X$  with two percent for CO and ROG.

| Scenario/Analysis Year                             | PM <sub>2.5</sub><br>Emissions<br>(Tons per<br>Year) | PM <sub>10</sub><br>Emissions<br>(Tons per<br>Year) | NO <sub>x</sub><br>Emissions<br>(Tons per<br>Year) | CO<br>Emissions<br>(Tons per<br>Year) | ROG<br>Emissions<br>(Tons per<br>Year) |
|----------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------|----------------------------------------|
| Existing - Year 2019                               | 2.52                                                 | 8.52                                                | 23.99                                              | 68.67                                 | 4.56                                   |
| No Build Alternative – Opening<br>Year 2024        | 2.30                                                 | 8.43                                                | 11.56                                              | 43.35                                 | 2.95                                   |
| No Build Alt. 2024 Compared to<br>Existing:        | -0.23                                                | -0.09                                               | -12.43                                             | -25.32                                | -1.61                                  |
| Percent Change:                                    | -9%                                                  | -1%                                                 | -52%                                               | -37%                                  | -35%                                   |
| Build Alternative – Opening Year 2024              | 2.36                                                 | 8.66                                                | 11.90                                              | 44.43                                 | 3.03                                   |
| Build Alt. 2024 Compared to<br>Existing:           | -0.17                                                | 0.14                                                | -12.10                                             | -24.24                                | -1.53                                  |
| Percent Change:                                    | -7%                                                  | 2%                                                  | -50%                                               | -35%                                  | -34%                                   |
| Build Alt. 2024 Compared to No<br>Build Alt. 2024: | 0.06                                                 | 0.22                                                | 0.33                                               | 1.08                                  | 0.07                                   |
| Percent Change:                                    | 3%                                                   | 3%                                                  | 3%                                                 | 2%                                    | 3%                                     |
| No Build Alternative – Design<br>Year 2045         | 2.45                                                 | 9.29                                                | 8.75                                               | 28.15                                 | 1.66                                   |
| No Build Alt. 2045 Compared to<br>Existing:        | -0.07                                                | 0.77                                                | -15.24                                             | -40.52                                | -2.91                                  |
| Percent Change:                                    | -3%                                                  | 9%                                                  | -64%                                               | -59%                                  | -64%                                   |
| Build Alternative – Design Year<br>2045            | 2.52                                                 | 9.53                                                | 9.00                                               | 28.84                                 | 1.70                                   |
| Build Alt. 2045 Compared to<br>Existing:           | -0.01                                                | 1.01                                                | -15.00                                             | -39.83                                | -2.87                                  |
| Percent Change:                                    | 0%                                                   | 12%                                                 | -63%                                               | -58%                                  | -63%                                   |
| Build 2045 Alt. Compared to No<br>Build Alt. 2045: | 0.06                                                 | 0.24                                                | 0.25                                               | 0.68                                  | 0.04                                   |
| Percent Change:                                    | 3%                                                   | 3%                                                  | 3%                                                 | 2%                                    | 2%                                     |

| Table 30: Summar | v of Com | parative O | perational | Emissions | Analvsis |
|------------------|----------|------------|------------|-----------|----------|
| abio our ourman  | ,        | paracro o  | poracionar |           | /        |

Source: AMBIENT Air Quality and Noise Consulting, 2020

Notes: % = percent;  $PM_{2.5}$  = fine particulate matter;  $PM_{10}$  = respirable particulate matter;  $NO_x$  = nitrogen oxide; CO = carbon monoxide; ROG = reactive organic gases

Emissions were calculated using the CT-EMFAC2017 version 1.0.2 computer program based, in part, on traffic data provided for this project in the Final Traffic Operations Analysis Report (Intueor Consulting, September 2020).

The analysis includes exhaust emissions, brake, road, and tire dust.

NOx is surrogate for NO<sub>2</sub>.

There is no significant difference in projected traffic volumes/data between year 2040 and year 2045. Therefore, 2045 traffic data is presented as the Horizon/Design Year (2040) for purposes of this table.

### Regional Conformity

The Project is included in the regional emissions analysis conducted by the Southern California Association of Governments (SCAG) for the conforming 2020 Regional Transportation Plan/Sustainable Communities Strategy and the 2019 Federal Transportation Improvement

Program. The Project is identified in the 2020 Regional Transportation Plan/Sustainable Communities Strategy as Project No. 1163S005, and the 2019 Federal Transportation Improvement Program as Project No. LA0G1453, and described as "Add one eastbound auxiliary lane from I-710 ramps at Atlantic Avenue to past Cherry Avenue Undercrossing".

The Project's design, concept, and scope have not changed significantly from what was analyzed in the regional emission analysis prepared for the federally approved 2020 Regional Transportation Plan/Sustainable Communities Strategy and the 2019 Federal Transportation Improvement Program. The air quality conformity analysis prepared for these plans found that the plans, which take into account regionally significant projects and financial constraints, would conform to the state implementation plan(s) for attaining and maintaining the National Ambient Air Quality Standards as provided in Section 176(c) of the Federal Clean Air Act. The Federal Highway Administration determined that the 2020 Regional Transportation Plan/Sustainable Communities Strategy and the 2019 Federal Transportation Improvement Program conform to the State Implementation Plan on June 5, 2020. It is important to note that the Project was evaluated based on design 2045 traffic conditions. There is no significant difference in projected traffic volumes/data between future design years 2040 and 2045.

### Project-Level Conformity

The Project is located in Los Angeles County, which is designated nonattainment for the federal  $PM_{2.5}$  and ozone standards and maintenance for the federal CO and  $PM_{10}$  standards (refer to **Table 29** above). As a result, a project-level hot-spot analysis for  $PM_{10}$ ,  $PM_{2.5}$ , and CO is required under 40 CFR 93.109. As discussed below, the Project does not cause or contribute to any new localized CO,  $PM_{2.5}$ , and/or  $PM_{10}$  violations, or delay timely attainment of any National Ambient Air Quality Standards or any required interim emission reductions or other milestones during the timeframe of the transportation plan (or regional emissions analysis).

In 1997, the U.S. EPA approved the CO Protocol (*Transportation Project-Level Carbon Monoxide Protocol, UCD-ITS-97-21*, University of California, Davis, December 1997) for use as an alternative hot-spot analysis method in California. Statewide and regional interagency consultation groups also reviewed the Protocol and approved it for federal air quality conformity use. The CO Protocol provides a screening procedure for determining when a project may be of possible concern regarding potential exceedance of CO ambient air quality standards. For projects that do not pass the screening procedure, the CO Protocol provides additional guidance on conducting a more detailed analysis. Based on the screening criteria, the Project Area intersection would not be suspected of resulting in higher CO concentrations than those existing within the region at the time of attainment demonstration. No further analysis is necessary.

In November 2015, the U.S. EPA released an updated version of *Transportation Conformity Guidance for Quantitative Hot-Spot Analyses in*  $PM_{2.5}$  *and*  $PM_{10}$  *Nonattainment and Maintenance Areas* (Guidance) for quantifying the local air quality impacts of transportation projects and comparing them to the PM National Ambient Air Quality Standards (75 FR 79370). The Guidance requires a hot-spot analysis to be completed for a project of air quality concern (POAQC).

The Project is not considered a POAQC for PM<sub>10</sub> and/or PM<sub>2.5</sub> because it does not meet the definition of a POAQC as defined in U.S. EPA's Transportation Conformity Guidance. The Project is not a new or expanded highway that would result in a significant increase in diesel vehicles. As noted in Section 2.1.3, Traffic and Transportation/Pedestrian and Bicycle Facilities, the Project would not result in significant increases in traffic volumes along area roadways, nor would the Project result in a significant increase in the number of diesel vehicles operating along area roadways. The Build Alternative is not a new or expanded bus or rail terminal, and would not affect locations, areas, or categories of sites identified in PM implementation plans as sites of possible violation. The Project has undergone review by SCAG's Transportation Conformity Working Group (TCWG) for POAQC determination. On September 22, 2020, TCWG participants concurred that the Project is not a POAQC.

On May 4, 2021, a request for project level conformity determination for this project was submitted to FHWA and on May 24, 2021, FHWA determined that the project-level transportation conformity requirements of 40 CFR Part 93 have been met. The FHWA Project Level Conformity Determination for this project is contained in Appendix E.

#### Natural Occurring Asbestos (NOA) and Structural Asbestos

The Project is located in Los Angeles County, which is among the counties listed as containing naturally-occurring asbestos (i.e., serpentine and ultramafic rock). However, the portion of Los Angeles County in which the Project lies is not known to contain serpentine or ultramafic rock. Therefore, the impact of naturally occurring asbestos during Project construction would be minimal to none.

However, it is important to note that existing structures constructed prior to the early 1980s, such as bridges, may contain ACM. In addition, the soil surrounding railroad tracks within the Project Study Area may also contain ACMs from disk brake pads used on trains. If not properly identified and mitigated, asbestos fibers could become airborne during the construction of the Project, particularly during demolition and site preparation activities.

As discussed in Section 2.2.4, Hazardous Waste/Materials, avoidance and minimization measure **AVM-HW-3** would be implemented, and would include conducting ACM surveys for the 4 bridges in the Project Area during the design phase, as well as for retaining walls and soundwalls connected to other structures.

### Lead (Pb)

The proposed improvements may require the removal and disposal of yellow traffic striping and pavement marking materials (paint thermoplastic, permanent tape, and temporary tape). Yellow paints made prior to 1995 may exceed hazardous waste criteria under Title 22, California Code of Regulations, and require disposal in a Class I disposal site. In addition, the disturbance of lead paint must meet U.S. EPA and air district rules (Caltrans Standard Specifications 14-9.02 and Caltrans Standard Special Provision 14-11.07, 2018). Lead-based paint may be encountered with painted curbs and protective bollards. Furthermore, the Project is not located near an industrial lead emissions source. Therefore, exposure to lead in excess of applicable standards during construction would be unlikely.

### Mobile Source Air Toxics (MSAT)

Controlling air toxic emissions became a national priority with the passage of the Clean Air Act Amendments (CAAA) of 1990, whereby Congress mandated that the U.S. EPA regulate 188 air toxics, also known as hazardous air pollutants. The U.S. EPA has assessed this expansive list in its rule on the Control of Hazardous Air Pollutants from Mobile Sources (Federal Register, Vol. 72, No. 37, page 8430, February 26, 2007), and identified a group of 93 compounds emitted from mobile sources that are part of U.S. EPA's Integrated Risk Information System (IRIS) (https://www.epa.gov/iris). In addition, the U.S. EPA identified nine compounds with significant contributions from mobile sources that are among the national and regional-scale cancer risk drivers or contributors and non-hazard contributors from the 2011 National Air Toxics Assessment (NATA) (https://www.epa.gov/national-air-toxics-assessment). These are 1,3-butadiene, acetaldehyde, acrolein, benzene, diesel particulate matter (diesel PM), ethylbenzene, formaldehyde, naphthalene, and polycyclic organic matter. While the Federal Highway Administration considers these the priority mobile source air toxics, the list is subject to change and may be adjusted in consideration of future U.S. EPA rules.

The auxiliary lane under the Build Alternative would have the effect of moving some traffic closer to nearby land uses; therefore, under the Build Alternative, there may be localized areas where ambient concentrations of MSAT could be higher relative to the No Build Alternative. However, the magnitude and the duration of these potential increases compared to the No Build Alternative cannot be reliably quantified due to incomplete or unavailable information in forecasting project-specific MSAT health impacts.

In sum, when a highway is widened, the localized level of MSAT emissions under the Build Alternative could be higher relative to the No Build Alternative, but this could be offset due to increases in speeds and reductions in congestion (which are associated with lower MSAT emissions). Also, MSAT would be lower in other locations when traffic shifts away from them. However, on a regional basis, U.S. EPA's vehicle and fuel regulations, coupled with fleet turnover, will over time cause substantial reductions that, in almost all cases, will cause regionwide MSAT levels to be significantly lower than today.

Based on this information, the Project is identified as a Category (2) project; that is, the Project would have a low potential for MSAT effects. As a result, it is expected that the proposed Build Alternative would not result in an appreciable difference in overall MSAT emissions when compared to the No Build Alternative.

### Information that is Incomplete or Unavailable

In FHWA's view, information is incomplete or unavailable to credibly predict the project-specific health impacts due to changes in MSAT emissions associated with a proposed set of highway alternatives. The outcome of such an assessment, adverse or not, would be influenced more by the uncertainty introduced into the process through assumption and speculation rather than any genuine insight into the actual health impacts directly attributable to MSAT exposure associated with a proposed action.

U.S. EPA is responsible for protecting the public health and welfare from any known or anticipated effect of an air pollutant. U.S. EPA is the lead authority for administering the Federal

Clean Air Act and its amendments and has specific statutory obligations with respect to hazardous air pollutants and MSAT. U.S. EPA is in the continual process of assessing human health effects, exposures, and risks posed by air pollutants. It maintains the Integrated Risk Information System, which is "a compilation of electronic reports on specific substances found in the environment and their potential to cause human health effects." Each report contains assessments of non-cancerous and cancerous effects for individual compounds and quantitative estimates of risk levels from lifetime oral and inhalation exposures with uncertainty spanning perhaps an order of magnitude.

Other organizations are also active in the research and analyses of the human health effects of MSAT, including the Health Effects Institute. Two Health Effects Institute studies are summarized in Appendix D of FHWA's Interim Guidance Update on Mobile Source Air Toxic Analysis in NEPA Documents. Among the adverse health effects linked to MSAT compounds at high exposures are cancer in humans in occupational settings; cancer in animals; and irritation to the respiratory tract, including the exacerbation of asthma. Less obvious are the adverse human health effects of MSAT compounds at current environmental concentrations or in the future as vehicle emissions substantially decrease.

The methodologies for forecasting health impacts include emissions modeling, dispersion modeling, exposure modeling, and then a final determination of health impacts; each step in the process builds on the model predictions obtained in the previous step. All are encumbered by technical shortcomings or uncertain science that prevents a more complete differentiation of the MSAT health impacts among a set of project alternatives. These difficulties are magnified for lifetime (i.e., 70-year) assessments, particularly because unsupportable assumptions would have to be made regarding changes in travel patterns and vehicle technology (which affects emissions rates) over that time frame since such information is unavailable.

It is particularly difficult to reliably forecast 70-year lifetime MSAT concentrations and exposure near roadways; to determine the portion of time that people are actually exposed at a specific location, and to establish the extent attributable to a proposed action, especially given that some of the information needed is unavailable.

There are considerable uncertainties associated with the existing estimates of toxicity of the various MSATs, because of factors such as low-dose extrapolation and translation of occupational exposure data to the general population, a concern expressed by the Health Effects Institute. As a result, there is no national consensus on air dose-response values assumed to protect the public health and welfare for MSAT compounds, and in particular for diesel PM. U.S. EPA and the Health Effects Institute have not established a basis for quantitative risk assessment of diesel PM in ambient settings.

There is also the lack of a national consensus on an acceptable level of risk. The current context is the process used by the U.S. EPA as provided by the Federal Clean Air Act to determine whether more stringent controls are required in order to provide an ample margin of safety to protect public health or to prevent an adverse environmental effect for industrial sources subject to the maximum achievable control technology standards (e.g., benzene emissions from refineries). The decision framework is a two-step process. The first step requires the U.S. EPA to determine a "safe" or "acceptable" level of risk due to emissions from a source, which is generally no greater than approximately 100 in a million. Additional factors are

considered in the second step, the goal of which is to maximize the number of people with risks less than 1 in a million due to emissions from a source. The results of this statutory two-step process do not guarantee that cancer risks from exposure to air toxics are less than 1 in a million; in some cases, the residual risk determination could result in maximum individual cancer risks that are as high as approximately 100 in a million. In a June 2008 decision, the United States Court of Appeals for the District of Columbia Circuit upheld the U.S. EPA's approach to addressing risk in its two-step decision framework. Information is incomplete or unavailable to establish that even the largest of highway projects would result in levels of risk greater than safe or acceptable.

Because of the limitations in the methodologies for forecasting health impacts described, any predicted difference in health impacts between alternatives is likely to be much smaller than the uncertainties associated with predicting the impacts. Consequently, the results of such assessments would not be useful to decisionmakers, who would need to weigh this information against project benefits such as reducing traffic congestion, accident rates, and fatalities plus improved access for emergency response, which are better suited for quantitative analysis. Due to these limitations, information that is incomplete or unavailable has been disclosed and is in accordance with Council on Environmental Quality regulation, 40 CFR 1502.21(a), and project-specific health impacts have not been quantified by Caltrans.

#### Construction (Short-term) Impacts

Site preparation and roadway construction will involve clearing, cut-and-fill activities, grading, removing or improving existing roadways, and paving roadway surfaces. During construction, short-term degradation of air quality is expected from the release of particulate emissions (airborne dust) generated by excavation, grading, hauling, and other activities related to construction. Emissions from construction equipment powered by gasoline and diesel engines are also anticipated and would include CO, NO<sub>x</sub>, volatile organic compounds (VOCs), directly emitted PM<sub>10</sub> and PM<sub>2.5</sub>, and toxic air contaminants (TACs) such as diesel exhaust particulate matter. Construction activities are expected to increase traffic congestion in the area, resulting in increases in emissions from traffic during the delays. These emissions would be temporary and limited to the immediate area surrounding the construction site.

Construction activities will not last for more than 5 years at one general location, so construction-related emissions do not need to be included in regional and project-level conformity analysis (40 CFR 93.123(c)(5)). Construction of the Project would occur over an approximately 2-year period.

As depicted in **Table 31**, construction of the proposed Build Alternative would generate maximum daily emissions of approximately 5.14 pounds per day of reactive organic gases, 45.64 pounds per day of carbon monoxide, 53.91 pounds per day of oxides of nitrogen, 9.30 pounds per day of PM<sub>10</sub>, and 3.52 pounds per day of PM<sub>2.5</sub>. Total emissions generated during construction would be 0.93 tons of reactive organic gases, 8.74 tons of carbon monoxide, 9.41 tons of oxides of nitrogen, 1.98 tons of PM<sub>10</sub>, and 0.70 tons of PM<sub>2.5</sub>.

| Construction Phase           | Reactive<br>Organic<br>Gas<br>Emissions<br>(pounds<br>per day) | Carbon<br>Monoxide<br>Emissions<br>(pounds<br>per day) | Oxides of<br>Nitrogen<br>Emissions<br>(pounds<br>per day) | PM <sub>10</sub><br>Emissions<br>(pounds<br>per day) | PM <sub>2.5</sub><br>Emissions<br>(pounds<br>per day) |
|------------------------------|----------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| Land Clearing/Grubbing       | 1.12                                                           | 10.57                                                  | 11.03                                                     | 7.48                                                 | 1.88                                                  |
| Grading/Excavation           | 5.14                                                           | 45.64                                                  | 53.91                                                     | 9.30                                                 | 3.52                                                  |
| Drainage/Utilities/Sub-Grade | 2.94                                                           | 29.34                                                  | 27.92                                                     | 8.24                                                 | 2.59                                                  |
| Paving                       | 1.38                                                           | 17.98                                                  | 12.79                                                     | 0.68                                                 | 0.59                                                  |
| Maximum per Day:             | 5.14                                                           | 45.64                                                  | 53.91                                                     | 9.30                                                 | 3.52                                                  |
| Project Total (tons):        | 0.93                                                           | 8.74                                                   | 9.41                                                      | 1.98                                                 | 0.70                                                  |

#### Table 31: Construction Emissions of Criteria Air Pollutants and Precursors

Source: AMBIENT Air Quality and Noise Consulting, 2020 Notes:  $PM_{10}$  = respirable particulate matter;  $PM_{2.5}$  = fine particulate matter

Construction emissions were estimated using the Sacramento Metropolitan Air Quality Management District's Road Construction Emissions Model, Version 9.0.0 based, in part, on project-specific information provided by the Project engineer. While the model was developed for Sacramento conditions in terms of fleet emission factors and other modeling assumptions, the model is considered adequate for estimating road construction emissions in the SCAB and is used for that purpose in this Project analysis.

Most of the construction impacts to air quality are short-term in duration and, therefore, will not result in long-term adverse conditions. In addition to **AVM-VIS-2**, where landscape concepts include CO2 sequestering elements to help contain and reduce CO2 emissions, implementation of the following standardized measures (**PF-AQ-1** through **PF-AQ-14**), some of which may also be required for other purposes such as storm water pollution control, will reduce any air quality impacts resulting from construction activities:

- **PF-AQ-1** The construction contractor must comply with the Caltrans' Standard Specifications in Section 14-9 (2018).
  - Section 14-9-02 specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.
- **PF-AQ-2** Water or a dust palliative will be applied to the site and equipment as often as necessary to control fugitive dust emissions.
- **PF-AQ-3** Soil binder will be spread on any unpaved roads used for construction purposes, and on all project construction parking areas.
- **PF-AQ-4** Trucks will be washed as they leave the right of way, as necessary, sufficient to prevent track-out of material onto paved surfaces for the purposes of controlling fugitive dust emissions. Other measures, such as the use of track-out devices or gavel pads, may also be used.

| PF-AQ-5  | Construction equipment and vehicles will be properly tuned and maintained.<br>All construction equipment will use low sulfur fuel as required by the CA<br>Code of Regulations Title 17, Section 93114.                                                 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PF-AQ-6  | A dust control plan will be developed documenting sprinkling, temporary<br>paving, speed limits, and timely re-vegetation of disturbed slopes as needed<br>to minimize construction impacts to existing communities.                                    |
| PF-AQ-7  | Equipment and materials storage sites would be located as far away from residential and park uses as practicable. Construction areas will be kept clean and orderly.                                                                                    |
| PF-AQ-8  | Construction activities involving the extended idling of diesel equipment or vehicles will be limited near air sensitive receptors to the extent feasible.                                                                                              |
| PF-AQ-9  | Track-out reduction measures, such as gravel pads at project access points to minimize dust and mud deposits on roads affected by construction traffic, will be used.                                                                                   |
| PF-AQ-10 | All transported loads of soils and wet materials will be covered before<br>transport, or adequate freeboard (space from the top of the material to the<br>top of the truck) will be provided to minimize the emission of dust during<br>transportation. |
| PF-AQ-11 | Dust and mud that are deposited on paved, public roads due to construction activity and traffic will be promptly and regularly removed to reduce PM emissions.                                                                                          |
| PF-AQ-12 | To the extent feasible, construction traffic will be scheduled and routed to reduce congestion and related air quality impacts caused by idling vehicles along local roads during peak travel times.                                                    |
| PF-AQ-13 | Mulch will be installed, or vegetation planted as soon as practicable after grading to reduce windblown PM in the area.                                                                                                                                 |
| PF-AQ-14 | South Coast Air Quality Management District (SCAQMD) Rule 403 –<br>Fugitive Dust. Construction activity sources are required to implement best<br>available control measures for the control of fugitive dust.                                          |

Minor sources of odors would be present during construction. The predominant source of power for construction equipment is diesel engines. Exhaust odors from diesel engines, as well as emissions associated with asphalt paving, may be considered offensive to some individuals.

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

However, because odors would be temporary and would disperse rapidly with distance from the source, construction-generated odors would not be anticipated to result in the frequent exposure of receptors to objectionable odorous emissions.

Based on the analysis above, the Build Alternative would not result in adverse impacts on air quality.

### Avoidance, Minimization, and/or Mitigation Measures

Impacts on air quality would not be adverse; therefore, avoidance, minimization, and/or mitigation measures would not be required.

### **Climate Change**

Neither the United States Environmental Protection Agency (U.S. EPA) nor the Federal Highway Administration has issued explicit guidance or methods to conduct project-level greenhouse gas analysis. The Federal Highway Administration emphasizes concepts of resilience and sustainability in highway planning, project development, design, operations, and maintenance. Because there have been requirements set forth in California legislation and executive orders on climate change, the issue is addressed in the California Environmental Quality Act (CEQA) chapter of this document. The CEQA analysis may be used to inform the National Environmental Policy Act (NEPA) determination for the Project.

### **Cumulative Impacts**

The Project Study Area is within the South Coast Air Basin, which is designated as a nonattainment area for several criteria air pollutants. Over time, the air quality in the South Coast Air Basin has been substantially degraded by short- and long-term emissions of pollutants and dust generated by a wide variety of land uses, including agricultural, urban, industrial, and manufacturing uses.

When compared with the No Build Alternative, the proposed Project is anticipated to result in minor increases (two to three percent) in criteria air pollutants emissions in future years. In addition, the proposed Project demonstrates regional and project-level conformity and has low potential for MSAT effects. On September 20,2020, the Transportation Conformity Working Group determined the Project is not a project of air quality concern (POAQC). Furthermore, long-term air pollutant emissions associated with vehicle trips are anticipated to be reduced in the future because of implementation of fuel regulations, improved fleet average fuel economy, and the gradual removal of older vehicles from the roads. Therefore, the proposed Project's contribution to cumulative effects on air quality during operation would be minor. During construction, the proposed Project would incorporate Caltrans' Standard Specifications, as well as the SCAQMD rules and regulations (see **PF-AQ-1** through **PF-AQ-14**).

Of the current and future projects listed in **Table 6** above, the I-710 Corridor Project and State Route 91 Central Avenue to Acacia Court Project have potential to contribute to cumulative effects on air quality during operation. As discussed in the I-710 Corridor Project RDEIR/SDEIS, the project would result in near-roadway incremental concentration impacts at some receptors

(California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2017). However, the I-710 Corridor Project would provide funding for additional air quality monitoring stations, air filtration systems for schools, and solid barriers (walls) and vegetation to mitigate or reduce air quality impacts. As discussed in the State Route 91 Central Avenue to Acacia Court Project Draft IS/EA, the project is anticipated to decrease or marginally increase operational emissions of criteria air pollutants (California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2020). Although environmental documents were not available for the Uptown Commons and Hamilton Loop projects, these projects would be required to implement avoidance, minimization, and/or mitigation measures to comply with the requirements of CEQA and/or NEPA.

Based on the above discussion, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to air quality and mitigation would not be required.

### 2.2.6 NOISE AND VIBRATION

### **Regulatory Setting**

The National Environmental Policy Act (NEPA) of 1969 and the California Environmental Quality Act (CEQA) provide the broad basis for analyzing and abating highway traffic noise effects. The intent of these laws is to promote the general welfare and to foster a healthy environment. The requirements for noise analysis and consideration of noise abatement and/or mitigation, however, differ between NEPA and CEQA.

### CALIFORNIA ENVIRONMENTAL QUALITY ACT

CEQA requires a strictly baseline versus build analysis to assess whether a proposed Project will have a noise impact. If a proposed Project is determined to have a significant noise impact under CEQA, then CEQA dictates that mitigation measures must be incorporated into the Project unless those measures are not feasible. The rest of this section will focus on the NEPA/Title 23 Part 772 of the Code of Federal Regulations (23 CFR 772) noise analysis; please see Chapter 3 of this document for further information on noise analysis under CEQA.

### NATIONAL ENVIRONMENTAL POLICY ACT AND 23 CFR 772

For highway transportation projects with Federal Highway Administration involvement (and Caltrans, as assigned), the Federal-Aid Highway Act of 1970 and its implementing regulations (23 CFR 772) govern the analysis and abatement of traffic noise impacts. The regulations require that potential noise impacts in areas of frequent human use be identified during the planning and design of a highway project. The regulations include noise abatement criteria (NAC) that are used to determine when a noise impact would occur. The NAC differ depending on the type of land use under analysis. For example, the NAC for residences (67 A-weighted decibels [dBA]) is lower than the NAC for commercial areas (72 dBA). The following table lists the noise abatement criteria for use in the NEPA/23 CFR 772 analysis.

#### Table 32: Noise Abatement Criteria

| Activity<br>Category | NAC, Hourly A-<br>Weighted Noise<br>Level, Leq(h) | Description of activity category                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A                    | 57 (Exterior)                                     | Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.                                                                                                                                                                                                                                      |
| В                    | 67 (Exterior)                                     | Residential.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| С                    | 67 (Exterior)                                     | Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails, and trail crossings. Includes undeveloped lands permitted for this activity category. |
| D                    | 52 (Interior)                                     | Auditoriums, day care centers, hospitals, libraries,<br>medical facilities, places of worship, public meeting<br>rooms, public or nonprofit institutional structures, radio studios, recording studios,<br>schools, and television studios.                                                                                                                                                                                                                      |
| E                    | 72 (Exterior)                                     | Hotels, motels, offices, restaurants/bars, and other developed lands, properties, or activities not included in A–D or F.                                                                                                                                                                                                                                                                                                                                        |
| F                    | No NAC—<br>reporting only                         | Agriculture, airports, bus yards, emergency services,<br>industrial, logging, maintenance facilities,<br>manufacturing, mining, rail yards, retail facilities,<br>shipyards, utilities (water resources, water treatment,<br>electrical, etc.), and warehousing.                                                                                                                                                                                                 |
| G                    | No NAC—<br>reporting only                         | Undeveloped lands that are not permitted.                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Figure 14** lists the noise levels of common activities to enable readers to compare the actual and predicted highway noise levels discussed in this section with common activities.



Figure 14: Noise Levels of Common Activities

According to Caltrans' *Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction Projects, May 2011*, a noise impact occurs when the predicted future noise level with the Project substantially exceeds the existing noise level (defined as a 12 dBA or more) or when the future noise level with the Project approaches or exceeds the NAC. A noise level is considered to approach the NAC if it is within 1 dBA of the NAC.

If it is determined that the Project will have noise impacts, then potential abatement measures must be considered. Noise abatement measures that are determined to be reasonable and feasible at the time of final design are incorporated into the Project plans and specifications. This document discusses noise abatement measures that would likely be incorporated in the Project.

Caltrans' *Traffic Noise Analysis Protocol* sets forth the criteria for determining when an abatement measure is reasonable and feasible. Feasibility of noise abatement is basically an engineering concern. Noise abatement must be predicted to reduce noise by at least 5 decibels (dB) at an impacted receptor to be considered feasible from an acoustical perspective. It must also be possible to design and construct the noise abatement measure for it to be considered feasible. Factors that affect the design and constructability of noise abatement include, but are not limited to, safety, barrier height, topography, drainage, access requirements for driveways, presence of local cross streets, underground utilities, other noise sources in the area, and maintenance of the abatement measure. The overall reasonableness of noise abatement is determined by the following three factors: 1) the noise reduction design goal of 7 dB at one or more impacted receptors; 2) the cost of noise abatement; and 3) the viewpoints of benefited receptors).

### **Affected Environment**

A Noise Study Report (NSR) was completed in September 2020 to discuss potential impacts related to noise. A Noise Abatement Decision Report (NADR) was also completed for the Project in October 2020.

The Project Area has been grouped into two analysis areas, Area A and Area B, which are shown in **Figure 15** through **Figure 19**. These figures also show the locations of receptors and proposed barrier locations along the Study Area.

Figure 15: Analysis Areas, Noise-Monitoring Locations, Modeled Receptors, Evaluated Noise Barriers, and Nearby Land Uses (Sheet 1 of 5)



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Figure 16: Analysis Areas, Noise-Monitoring Locations, Modeled Receptors, Evaluated Noise Barriers, and Nearby Land Uses (Sheet 2 of 5)



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Figure 17: Analysis Areas, Noise-Monitoring Locations, Modeled Receptors, Evaluated Noise Barriers, and Nearby Land Uses (Sheet 3 of 5)



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Figure 18: Analysis Areas, Noise-Monitoring Locations, Modeled Receptors, Evaluated Noise Barriers, and Nearby Land Uses (Sheet 4 of 5)



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Figure 19: Analysis Areas, Noise-Monitoring Locations, Modeled Receptors, Evaluated Noise Barriers, and Nearby Land Uses (Sheet 5 of 5)



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Area A and Area B are described as follows:

- Area A: This area is located on the north side of State Route 91, between the westerly (I-710/State Route 91 Connector) and easterly (Cherry Interchange) end of the Project. Residential subdivisions (Activity Category B), a restaurant (Activity Category E), and agriculture/industrial/retail uses (Activity Category F) are located in this area. This area is generally flat and lower in elevation than the highway. Existing noise barriers with a nominal height of 8 feet to 14 feet are generally located between State Route 91 and the residential areas, as shown in **Figure 15** through **Figure 19**.
- Area B: This area is located on the south side of State Route 91, between the westerly (I-710/State Route 91 Connector) and easterly (Cherry Interchange) end of the Project. Residential subdivisions (Activity Category B), a school and a place of worship (exterior Activity Category C, interior Activity Category D), offices (Activity Category E), and industrial/retail uses (Activity Category F) are located in this area. The ground is generally flat and lower in elevation than the highway. Existing noise barriers with a nominal height of 8 feet to 14 feet are generally located between State Route 91 and the residential areas, as shown in **Figure 15** through **Figure 19**.

### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts related to noise.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

The Federal Highway Administration defines a Type I project as a proposed federal or federalaid highway project for the construction of a highway on a new location or the physical alteration of an existing highway which significantly changes either the horizontal or vertical alignment of the highway. This project is categorized as a Type I project.

Under 23 CFR 772.11, noise abatement must be considered for Type I projects if the Project is predicted to result in a traffic noise impact. In such cases, 23 CFR 772 requires that the Project sponsor "consider" noise abatement before adoption of the final NEPA document. This process involves identification of noise abatement measures that are reasonable, feasible, and likely to be incorporated into the Project, and of noise impacts for which no apparent solution is available.

Traffic noise impacts, as defined in 23 CFR 772.5, occur when the predicted noise level in the design-year approaches or exceeds the NAC specified in 23 CFR 772, or a predicted noise level substantially exceeds the existing noise level (a "substantial" noise increase). **Table 33** summarizes existing and predicted design-year (2045) noise levels for each land use in the Project Area, without consideration of noise abatement. **Table 34** summarizes the existing and

predicted design-year (2045) noise levels for all impacted receptors (i.e., receptors where future noise conditions approach or exceed the noise abatement criteria). Appendix B of the Noise Study Report includes the predicted future noise levels and noise barrier analysis for all modeled receptors.

| Land Use         | Existing Noise Level<br>Range, dBA | Predicted Design-Year Noise<br>Level Range, dBA | Number of Traffic Noise<br>Impacted Receptors |  |  |
|------------------|------------------------------------|-------------------------------------------------|-----------------------------------------------|--|--|
| Agriculture      | 69                                 | 69                                              | 0                                             |  |  |
| Industrial       | 59 to 69                           | 59 to 69                                        | 0                                             |  |  |
| Office           | 66 to 68                           | 67 to 68                                        | 0                                             |  |  |
| Place of Worship | 63                                 | 70                                              | 1                                             |  |  |
| Residential      | 59 to 72                           | 60 to 72                                        | 28                                            |  |  |
| Restaurant       | 68                                 | 68                                              | 0                                             |  |  |
| Retail           | 64 to 69                           | 65 to 69                                        | 0                                             |  |  |
| School           | 61 to 62                           | 68 to 69                                        | 4                                             |  |  |

### Table 33: Summary of Noise Levels and Traffic Noise Impacts (Without Noise Abatement)

Source: AMBIENT Air Quality and Noise Consulting, 2020

| Receptor<br>ID | Barrier<br>ID | Land Use    | Number<br>of<br>Dwelling<br>Units | Address               | Existing<br>Noise<br>Level<br>Leq(h),<br>dBA | Design<br>Year<br>Noise<br>Level<br>without<br>Project<br>L <sub>eq</sub> (h),<br>dBA | Design<br>Year<br>Noise<br>Level<br>with<br>Project<br>Leq(h),<br>dBA | Design<br>Year Noise<br>Level<br>without<br>Project<br>minus<br>Existing<br>Conditions<br>Leq(h),<br>dBA | Design<br>Year Noise<br>Level with<br>Project<br>Minus No<br>Project<br>Conditions<br>L <sub>eq</sub> (h),<br>dBA | Activity<br>Category<br>(Noise<br>Abatement<br>Criteria) | Design<br>Year Noise<br>Level with<br>Project<br>Minus<br>Existing<br>Conditions,<br>L <sub>eq</sub> (h), dBA |
|----------------|---------------|-------------|-----------------------------------|-----------------------|----------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| R1.51          | BA-2          | Residential | 4                                 | 540 East 67th Street  | 67                                           | 66                                                                                    | 67                                                                    | 0                                                                                                        | 0                                                                                                                 | B (67)                                                   | 0                                                                                                             |
| LT1.51         | BA-4          | Residential | 8                                 | 1100 East 67th Street | 59                                           | 60                                                                                    | 72                                                                    | 1                                                                                                        | 13                                                                                                                | B (67)                                                   | 13                                                                                                            |
| LT1.52         | BA-4          | Residential | 7                                 | 1306 East 67th Street | 60                                           | 61                                                                                    | 66                                                                    | 1                                                                                                        | 6                                                                                                                 | B (67)                                                   | 6                                                                                                             |
| R1.59          | BA-4          | Residential | 1                                 | 6686 Lime Avenue      | 64                                           | 64                                                                                    | 70                                                                    | 1                                                                                                        | 7                                                                                                                 | B (67)                                                   | 6                                                                                                             |
| R1.61          | BA-4          | Residential | 2                                 | 6690 Olive Avenue     | 65                                           | 66                                                                                    | 72                                                                    | 1                                                                                                        | 7                                                                                                                 | B (67)                                                   | 7                                                                                                             |
| R1.62          | BA-4          | Residential | 1                                 | 6690 Myrtle Avenue    | 66                                           | 67                                                                                    | 71                                                                    | 1                                                                                                        | 5                                                                                                                 | B (67)                                                   | 5                                                                                                             |
| R1.63          | BA-4          | Residential | 6                                 | 1008 East 67th Street | 62                                           | 63                                                                                    | 66                                                                    | 1                                                                                                        | 4                                                                                                                 | B (67)                                                   | 4                                                                                                             |
| R1.64          | BA-4          | Residential | 1                                 | 1040 East 67th Street | 61                                           | 62                                                                                    | 68                                                                    | 1                                                                                                        | 7                                                                                                                 | B (67)                                                   | 7                                                                                                             |
| R1.66          | BA-4          | Residential | 1                                 | 1132 East 67th Street | 60                                           | 61                                                                                    | 67                                                                    | 1                                                                                                        | 7                                                                                                                 | B (67)                                                   | 7                                                                                                             |
| R1.67          | BA-4          | Residential | 1                                 | 6680 Cerritos Avenue  | 60                                           | 61                                                                                    | 67                                                                    | 1                                                                                                        | 6                                                                                                                 | B (67)                                                   | 7                                                                                                             |
| R1.68          | BA-4          | Residential | 2                                 | 6695 Orange Avenue    | 61                                           | 61                                                                                    | 67                                                                    | 1                                                                                                        | 6                                                                                                                 | B (67)                                                   | 6                                                                                                             |
| R1.69          | BA-4          | Church      | N/A                               | 6698 Orange Avenue    | 63                                           | 64                                                                                    | 71                                                                    | 1                                                                                                        | 8                                                                                                                 | D (52)                                                   | 8                                                                                                             |
| R1.70          | BA-4          | School      | N/A                               | 6650 Orange Avenue    | 62                                           | 62                                                                                    | 69                                                                    | 1                                                                                                        | 7                                                                                                                 | D (52)                                                   | 7                                                                                                             |
| R1.71          | BA-4          | School      | N/A                               | 6650 Orange Avenue    | 61                                           | 62                                                                                    | 68                                                                    | 1                                                                                                        | 7                                                                                                                 | C (67)                                                   | 7                                                                                                             |
| R1.72          | BA-4          | School      | N/A                               | 6650 Orange Avenue    | 61                                           | 62                                                                                    | 68                                                                    | 1                                                                                                        | 6                                                                                                                 | C (67)                                                   | 7                                                                                                             |
| R1.73          | BA-4          | School      | N/A                               | 6650 Orange Avenue    | 61                                           | 61                                                                                    | 68                                                                    | 1                                                                                                        | 7                                                                                                                 | C (67)                                                   | 7                                                                                                             |
| R1.74          | BA-4          | Residential | 1                                 | 1230 East 67th Street | 62                                           | 63                                                                                    | 69                                                                    | 1                                                                                                        | 7                                                                                                                 | B (67)                                                   | 7                                                                                                             |
| R1.75          | BA-4          | Residential | 1                                 | 1346 East 67th Street | 60                                           | 60                                                                                    | 66                                                                    | 1                                                                                                        | 6                                                                                                                 | B (67)                                                   | 6                                                                                                             |
| R1.76          | BA-4          | Residential | 2                                 | 6697 Falcon Avenue    | 64                                           | 64                                                                                    | 71                                                                    | 1                                                                                                        | 7                                                                                                                 | B (67)                                                   | 7                                                                                                             |
| R1.77          | BA-4          | Residential | 1                                 | 6698 Falcon Avenue    | 60                                           | 61                                                                                    | 67                                                                    | 1                                                                                                        | 7                                                                                                                 | B (67)                                                   | 7                                                                                                             |
| R1.78          | BA-4          | Residential | 1                                 | 6691 Walnut Avenue    | 63                                           | 63                                                                                    | 71                                                                    | 1                                                                                                        | 8                                                                                                                 | B (67)                                                   | 8                                                                                                             |
| R1.79          | BA-4          | Residential | 1                                 | 6684 Walnut Avenue    | 64                                           | 65                                                                                    | 72                                                                    | 1                                                                                                        | 8                                                                                                                 | B (67)                                                   | 8                                                                                                             |
| R1.80          | BA-4          | Residential | 1                                 | 6679 Gaviota Avenue   | 64                                           | 65                                                                                    | 72                                                                    | 1                                                                                                        | 8                                                                                                                 | B (67)                                                   | 8                                                                                                             |

Table 34: Predicted Future Noise Levels for Impacted Receptors in Area B

| Receptor<br>ID | Barrier<br>ID | Land Use    | Number<br>of<br>Dwelling<br>Units | Address              | Existing<br>Noise<br>Level<br>L <sub>eq</sub> (h),<br>dBA | Design<br>Year<br>Noise<br>Level<br>without<br>Project<br>L <sub>eq</sub> (h),<br>dBA | Design<br>Year<br>Noise<br>Level<br>with<br>Project<br>Leq(h),<br>dBA | Design<br>Year Noise<br>Level<br>without<br>Project<br>minus<br>Existing<br>Conditions<br>L <sub>eq</sub> (h),<br>dBA | Design<br>Year Noise<br>Level with<br>Project<br>Minus No<br>Project<br>Conditions<br>Leq(h),<br>dBA | Activity<br>Category<br>(Noise<br>Abatement<br>Criteria) | Design<br>Year Noise<br>Level with<br>Project<br>Minus<br>Existing<br>Conditions,<br>Leq(h), dBA |
|----------------|---------------|-------------|-----------------------------------|----------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| R1.81          | BA-4          | Residential | 1                                 | 6670 Gaviota Avenue  | 63                                                        | 64                                                                                    | 71                                                                    | 1                                                                                                                     | 8                                                                                                    | B (67)                                                   | 8                                                                                                |
| R1.82          | BA-4          | Residential | 2                                 | 6659 Rose Avenue     | 63                                                        | 63                                                                                    | 71                                                                    | 1                                                                                                                     | 8                                                                                                    | B (67)                                                   | 8                                                                                                |
| R1.83          | BA-4          | Residential | 1                                 | 6654 Rose Avenue     | 62                                                        | 63                                                                                    | 69                                                                    | 1                                                                                                                     | 7                                                                                                    | B (67)                                                   | 7                                                                                                |
| R1.84          | BA-4          | Residential | 1                                 | 6641 Gardenia Avenue | 63                                                        | 63                                                                                    | 69                                                                    | 1                                                                                                                     | 7                                                                                                    | B (67)                                                   | 6                                                                                                |

Source: AMBIENT Air Quality and Noise Consulting, 2020

Notes: N/A = Not Applicable;  $L_{eq}(h)$  = hourly equivalent sound level; dBA = A-weighted decibels

During Project construction, noise and vibration from construction activities may intermittently dominate the noise environment in the immediate area of construction. In addition, sensitive noise receptors, including nearby residences, may be exposed to increased traffic noise following demolition of the existing soundwall. The Project would not require any pile driving activities for bridge widening, as cast-in-drilled-hole piles would be used for bridge construction; however, pile driving may be required for shoring during construction. In addition, the Project would require the use of loaded trucks and bulldozers. Based on the Federal Transit Administration Transit Noise and Vibration Impact Assessment Manual (2018), a loaded truck, a large bulldozer, and pile driving would generate a vibration level of 0.076 peak particle velocity (PPV) (inches per second [in/sec]) (86 vibration velocity decibels [VdB]), 0.089 PPV (in/sec) (87 VdB), and 0.644 PPV (in/sec) (104 VdB), respectively, when measured at 25 feet. Vibration associated with construction activities, specifically, pile driving, could cause annoyance impacts, depending on the distance from vibration sensitive receptors, and the impact would not be adverse.

The Build Alternative includes the following Project features:

- **PF-NOI-1** Sound control will conform to the provisions in Section 14-8.02, Noise Control, of the Caltrans Standard Specifications. According to requirements of these specifications, construction noise cannot exceed 86 dBA L<sub>max</sub> at 50 feet from the job site activities from 9:00 p.m. to 6:00 a.m.
- **PF-NOI-2** All equipment will have sound-control devices no less effective than those provided on the original equipment. Each internal combustion engine used for any purpose on the job or related to the job will be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine will be operated on the job site without an appropriate muffler. Additionally, construction methods or equipment that will provide the lowest level of noise impact will be used and idling equipment will be turned off.
- **PF-NOI-3** Existing noise barrier, EXB-2, would be demolished due to roadway and bridge widening as part of the Project implementation. This existing noise barrier would be replaced in-kind (length and height), at minimum.

Avoidance and minimization measures (see **AVM-NOI-1**, **AVM-NOI-2**, and **AVM-NOI-3** under Avoidance, Minimization, and/or Abatement Measures) would also be implemented, such as using cast-in-drilled-hole piles or sonic or vibratory pile drivers, where feasible, to avoid the use of impact-type pile drivers near residences, conducting activities during weekday daytime hours when residents may be away from their homes when there is a possibility of human annoyance from pile driving, avoiding high vibration–generating activities during the same time in proximity to each other to the maximum extent practicable, and contacting residents prior to pile driving to notify them that this activity will be occurring. During final design, use of rubberized asphalt on the re-constructed portion of the Atlantic Avenue on-ramp and Cherry Avenue off-ramp would be explored as a long-term noise reduction method for this Project (see **AVM-NOI-4**).

#### Avoidance, Minimization, and/or Abatement Measures

Implementation of this project would widen some existing roadways/bridges requiring the demolition of existing barriers. Predicted noise levels for design-year conditions with the Project alternative were modeled with the proposed widening conditions and no barrier. Noise abatement was considered at locations where the noise levels in the design-year are predicted to approach or exceed the noise abatement criterion at the specified land use as shown above in **Table 32**. The following is a discussion of noise abatement considered for each evaluation area where traffic noise impacts are predicted.

### <u>Area A</u>

This area contains several land use categories represented by the following receptors. Receptors R1.3 to R1.29, R1.88, ST1.1 to ST1.4, LT1.1, and LT1.2 represent a total of 62 residences. Receptor R1.1 represents commercial retail. Receptor R1.2 represents agriculture land use. Receptor R1.30 represents industrial land use.

The traffic noise modeling results indicate that traffic noise levels at the land uses in Area A are predicted to be in the range of 60 to 72 dBA  $L_{eq}(h)$  in the design-year. Although the results indicate a 2 dBA increase in noise between existing conditions and the design-year, the 2 dBA increase would be at a receptor location that is not expected to approach or exceed the NAC. Additionally, locations that are predicted to approach or exceed the NAC are not expected to result in any noise changes in the design-year compared to existing conditions; that is, current conditions modeled already indicate that some locations approach or exceed the NAC, and future noise increases above current conditions are not predicted. Because the noise levels in the design-year are predicted to approach or exceed the noise abatement criterion (67 dBA  $L_{eq}[h]$ ) at residences, noise abatement must be considered in Area A.

This area is comprised of existing barriers (EXB) EXB-1, EXB-3, and EXB-5 (**Figure 15** through **Figure 19** above). EXB-1 extends from PM LA R12.087 to LA R12.119 at an approximate height of 8 feet and continues from LA R12.119 to LA R12.175 at an approximate height of 12 feet. EXB-3 extends from PM LA R12.156 to LA R13.058 at a height ranging from approximately 10 to 14 feet. EXB-5 at a height of 12 feet extends from PM LA R13.007 to LA R13.129.

Detailed modeling analysis was conducted for four barriers located at the edge of the shoulder. The barriers evaluated are identified as proposed barriers BA-1, BA-1a, BA-1b, and BA-3 in **Figure 15** through **Figure 19** above. Barrier heights in the range of 8 to 16 feet were evaluated in 2-foot increments. Proposed Barrier BA-1 extends from PM LA R11.998 to LA R12.175. As an option, barriers BA-1a and BA-1b were evaluated in place of Barrier BA-1. Proposed Barrier BA-1a extends from PM LA R11.995 to LA R12.092. Proposed Barrier BA-1b extends from PM LA R12.198 to LA R12.198 to LA R12.1995 to LA R12.092. Proposed Barrier BA-1b extends from PM LA R12.998 to LA R12.1995.

**Table 35** summarizes noise abatement, acoustical feasibility of noise abatement, and reasonable allowances for feasible abatement. While Project improvements would only be completed along Eastbound State Route 91, sensitive noise receptors are located to the north and south of the transportation facility. Therefore, noise abatement along WB State Route 91 was considered in this analysis.

The NADR modeled and evaluated noise barriers BA-1, BA-1a, BA-1b, BA-3 for reasonableness. These noise barriers were not found to be acoustically feasible for any of the evaluated heights ranging from 8 to 16 feet. None of these noise barriers would meet the acoustic feasibility criteria of providing noise reduction of at least 5 dBA at an impacted receptor for any of the evaluated wall heights ranging from 8 to 16 feet. Therefore, these noise barriers are not considered reasonable and not recommended for construction.

| Design Year with Barrier BA-1                                                                                                                                                                                                                                                                                                                                                                       | 8-Foot<br>Barrier                                                                                                                                                            | 10-Foot<br>Barrier                                                                                                                                                            | 12-Foot<br>Barrier                                                                                                                                                            | 14-Foot<br>Barrier                                                                                                                                                            | 16-Foot<br>Barrier                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Barrier Noise Reduction (decibels)                                                                                                                                                                                                                                                                                                                                                                  | 0 to 2                                                                                                                                                                       | 0 to 2                                                                                                                                                                        | 1 to 2                                                                                                                                                                        | 1 to 3                                                                                                                                                                        | 1 to 3                                                                                                                                                                        |
| Number of Benefited Receptors                                                                                                                                                                                                                                                                                                                                                                       | 0                                                                                                                                                                            | 0                                                                                                                                                                             | 0                                                                                                                                                                             | 0                                                                                                                                                                             | 0                                                                                                                                                                             |
| Reasonable Allowance Per Benefited Receptor                                                                                                                                                                                                                                                                                                                                                         | \$107,000                                                                                                                                                                    | \$107,000                                                                                                                                                                     | \$107,000                                                                                                                                                                     | \$107,000                                                                                                                                                                     | \$107,000                                                                                                                                                                     |
| Total Reasonable Allowance                                                                                                                                                                                                                                                                                                                                                                          | \$0                                                                                                                                                                          | \$0                                                                                                                                                                           | \$0                                                                                                                                                                           | \$0                                                                                                                                                                           | \$0                                                                                                                                                                           |
| Design Year with Barrier BA-1a<br>(Option)                                                                                                                                                                                                                                                                                                                                                          | 8-Foot<br>Barrier                                                                                                                                                            | 10-Foot<br>Barrier                                                                                                                                                            | 12-Foot<br>Barrier                                                                                                                                                            | 14-Foot<br>Barrier                                                                                                                                                            | 16-Foot<br>Barrier                                                                                                                                                            |
| Barrier Noise Reduction (decibels)                                                                                                                                                                                                                                                                                                                                                                  | 0 to 1                                                                                                                                                                       | 0 to 1                                                                                                                                                                        | 1 to 2                                                                                                                                                                        | 1 to 2                                                                                                                                                                        | 1 to 3                                                                                                                                                                        |
| Number of Benefited Receptors                                                                                                                                                                                                                                                                                                                                                                       | 0                                                                                                                                                                            | 0                                                                                                                                                                             | 0                                                                                                                                                                             | 0                                                                                                                                                                             | 0                                                                                                                                                                             |
| Reasonable Allowance Per Benefited Receptor                                                                                                                                                                                                                                                                                                                                                         | \$107,000                                                                                                                                                                    | \$107,000                                                                                                                                                                     | \$107,000                                                                                                                                                                     | \$107,000                                                                                                                                                                     | \$107,000                                                                                                                                                                     |
| Total Reasonable Allowance                                                                                                                                                                                                                                                                                                                                                                          | \$0                                                                                                                                                                          | \$0                                                                                                                                                                           | \$0                                                                                                                                                                           | \$0                                                                                                                                                                           | \$0                                                                                                                                                                           |
| Design Vear with Barrier BA-1h                                                                                                                                                                                                                                                                                                                                                                      | 0 East                                                                                                                                                                       | 40 5                                                                                                                                                                          |                                                                                                                                                                               |                                                                                                                                                                               | AC East                                                                                                                                                                       |
| (Option)                                                                                                                                                                                                                                                                                                                                                                                            | 8-FOOT<br>Barrier                                                                                                                                                            | Barrier                                                                                                                                                                       | Barrier                                                                                                                                                                       | Barrier                                                                                                                                                                       | Barrier                                                                                                                                                                       |
| (Option)<br>Barrier Noise Reduction (decibels)                                                                                                                                                                                                                                                                                                                                                      | 0 to 2                                                                                                                                                                       | 0 to 2                                                                                                                                                                        | 0 to 2                                                                                                                                                                        | 0 to 3                                                                                                                                                                        | 1 to 3                                                                                                                                                                        |
| (Option)<br>Barrier Noise Reduction (decibels)<br>Number of Benefited Receptors                                                                                                                                                                                                                                                                                                                     | Barrier<br>0 to 2<br>0                                                                                                                                                       | 0 to 2<br>0                                                                                                                                                                   | 0 to 2                                                                                                                                                                        | 0 to 3                                                                                                                                                                        | 16-Foot<br>Barrier<br>1 to 3<br>0                                                                                                                                             |
| Option)           Barrier Noise Reduction (decibels)           Number of Benefited Receptors           Reasonable Allowance Per Benefited           Receptor                                                                                                                                                                                                                                        | 0 to 2<br>0<br>\$107,000                                                                                                                                                     | 0 to 2<br>0<br>\$107,000                                                                                                                                                      | 0 to 2<br>0<br>\$107,000                                                                                                                                                      | 0 to 3<br>0<br>\$107,000                                                                                                                                                      | 16-FOOT<br>Barrier<br>1 to 3<br>0<br>\$107,000                                                                                                                                |
| Operation       (Option)         Barrier Noise Reduction (decibels)         Number of Benefited Receptors         Reasonable Allowance Per Benefited         Receptor         Total Reasonable Allowance                                                                                                                                                                                            | 0 to 2<br>0<br>\$107,000<br>\$0                                                                                                                                              | 0 to 2<br>0<br>\$107,000<br>\$0                                                                                                                                               | 0 to 2<br>0<br>\$107,000<br>\$0                                                                                                                                               | 0 to 3<br>0<br>\$107,000<br>\$0                                                                                                                                               | 16-FOOT<br>Barrier<br>1 to 3<br>0<br>\$107,000<br>\$0                                                                                                                         |
| Design real with Barrier BA-TD<br>(Option)         Barrier Noise Reduction (decibels)         Number of Benefited Receptors         Reasonable Allowance Per Benefited<br>Receptor         Total Reasonable Allowance         Design Year with Barrier BA-3                                                                                                                                         | 8-Foot           Barrier           0 to 2           0           \$107,000           \$0           8-Foot           Barrier                                                   | IO-FOOT           Barrier           0 to 2           0           \$107,000           \$0           10-Foot           Barrier                                                  | 12-Foot           Barrier           0 to 2           0           \$107,000           \$0           12-Foot           Barrier                                                  | 14-Foot           Barrier           0 to 3           0           \$107,000           \$0           14-Foot           Barrier                                                  | 16-Foot           Barrier           1 to 3           0           \$107,000           \$0           16-Foot           Barrier                                                  |
| Operation       (Option)         Barrier Noise Reduction (decibels)         Number of Benefited Receptors         Reasonable Allowance Per Benefited         Receptor         Total Reasonable Allowance         Design Year with Barrier BA-3         Barrier Noise Reduction (decibels)                                                                                                           | 8-Foot           Barrier           0 to 2           0           \$107,000           \$0           8-Foot           Barrier           -2 to 1                                 | 10-Foot           Barrier           0 to 2           0           \$107,000           \$0           10-Foot           Barrier           0 to 1                                 | 12-Foot           Barrier           0 to 2           0           \$107,000           \$0           12-Foot           Barrier           1 to 2                                 | 14-Foot           Barrier           0 to 3           0           \$107,000           \$0           14-Foot           Barrier           1 to 3                                 | 16-Foot           Barrier           1 to 3           0           \$107,000           \$0           16-Foot           Barrier           1 to 4                                 |
| Design real with Barrier BA-TD<br>(Option)         Barrier Noise Reduction (decibels)         Number of Benefited Receptors         Reasonable Allowance Per Benefited<br>Receptor         Total Reasonable Allowance         Design Year with Barrier BA-3         Barrier Noise Reduction (decibels)         Number of Benefited Receptors                                                        | 8-Foot           Barrier           0 to 2           0           \$107,000           \$0           8-Foot           Barrier           -2 to 1           0                     | IO-Foot           Barrier           0 to 2           0           \$107,000           \$0           10-Foot           Barrier           0 to 1           0                     | 12-Foot           Barrier           0 to 2           0           \$107,000           \$0           12-Foot           Barrier           1 to 2           0                     | 14-Foot           Barrier           0 to 3           0           \$107,000           \$0           14-Foot           Barrier           1 to 3           0                     | 16-Foot           Barrier           1 to 3           0           \$107,000           \$0           16-Foot           Barrier           1 to 4           0                     |
| Design real with Barrier BA-TD<br>(Option)         Barrier Noise Reduction (decibels)         Number of Benefited Receptors         Reasonable Allowance Per Benefited<br>Receptor         Total Reasonable Allowance         Design Year with Barrier BA-3         Barrier Noise Reduction (decibels)         Number of Benefited Receptors         Reasonable Allowance Per Benefited<br>Receptor | 8-Foot           Barrier           0 to 2           0           \$107,000           \$0           8-Foot           Barrier           -2 to 1           0           \$107,000 | IO-Foot           Barrier           0 to 2           0           \$107,000           \$0           10-Foot           Barrier           0 to 1           0           \$107,000 | 12-Foot           Barrier           0 to 2           0           \$107,000           \$0           12-Foot           Barrier           1 to 2           0           \$107,000 | 14-Foot           Barrier           0 to 3           0           \$107,000           \$0           14-Foot           Barrier           1 to 3           0           \$107,000 | 16-Foot           Barrier           1 to 3           0           \$107,000           \$0           16-Foot           Barrier           1 to 4           0           \$107,000 |

# Table 35: Summary of Noise Abatement, Acoustic Feasibility, and Reasonable Allowances for Feasible Westbound State Route 91 Barriers

Source: AMBIENT Air Quality and Noise Consulting, 2020

Notes: For Barrier BA-1, a 12-foot barrier is the minimum height needed to break the line of sight between 11.5-foot truck stack and first row receptor. Break in line of sight is not achieved for the evaluated heights for Barrier BA-1a, BA-1b, and BA-3.

### <u>Area B</u>

This area contains several land use categories represented by the following receptors. Receptors R1.51, R1.54 to R1.68, R1.91, R1.74 to R1.86, ST1.51, ST1.53 to ST1.55, LT1.51, and LT1.52 represent a total of 61 residences. Receptors ST1.52 and R1.69 represent a place of worship. Receptors R1.70 to R.73 represent a school. Receptors R1.53 and R1.87 represent commercial retail. Receptors R1.88 and R1.89 represent offices. Receptors R1.52 and R1.52 and R1.90 represent industrial areas.

The traffic noise modeling results indicate that traffic noise levels at the land uses in Area B are predicted to be in the range of 59 to 72 dBA  $L_{eq}(h)$  in the design-year, where noise levels are predicted to approach or exceed the NAC at residences (67 dBA  $L_{eq}[h]$ ). One modeled location is predicted to see an increase in noise up to a 13 dBA between existing conditions and the design-year. Because the predicted noise level in the design-year exceeds 67 dBA  $L_{eq}(h)$  at residences, traffic noise impacts are predicted, and noise abatement must be considered in Area B.

Because schools and places of worship have an interior noise abatement criterion in addition to the exterior criterion, interior noise must be considered at the school and place of worship as well. From Table 6 in the Federal Highway Administration Highway Traffic Noise Analysis and Abatement Guidance document, the building noise reduction factor for standard construction with ordinary windows closed is 20 dB. The interior noise level at the school in the design-year is therefore predicted to be 49 dBA  $L_{eq}(h)$ , and 51 dBA  $L_{eq}(h)$  at the place of worship. Because this predicted design year noise level does not approach or exceed the interior NAC of 52 dBA Leq(h), no interior traffic noise impacts are predicted at the school or place of worship.

This area is comprised of barriers EXB-2, EXB-4, and EXB-6 (refer to **Figure 15** through **Figure 19** above). EXB-2 is 12 feet high and extends from PM LA R12.086 to LA R12.184. EXB-4, ranging from approximately 10 to 14 feet high, would be demolished due to roadway and bridge widening. Barrier BA-4 was analyzed as a replacement for this barrier. EXB-6 has an approximate height of 10 feet and extends from PM LA R13.04 to LA R13.131.

Sound walls that are found to be acoustically feasible and reasonable will be constructed in areas along the Project Study Area. Feasibility means that the noise barrier reduces the noise at affected receptors by at least 5 dB, while reasonableness indicates that the noise barrier meets Caltrans' 7 dB noise reduction design goal and cost allowance. Detailed modeling analysis was conducted for two barriers located at the edge of the shoulder. The barriers evaluated are identified as proposed barriers BA-2 and BA-4 in **Figure 15** through **Figure 19** above. Barrier heights in the range of 8 to 16 feet were evaluated in 2-foot increments. Proposed Barrier BA-2 extends from PM LA R11.992 to LA R12.184. Proposed Barrier BA-4 extends from PM LA R13.073.

The NADR modeled and evaluated Barrier BA-2 for reasonableness. **Table 36** summarizes noise abatement, acoustical feasibility of noise abatement, and reasonable allowances for feasible abatement. Barrier BA-2 would not achieve a minimum noise reduction of 5 dB at the critical receptors, and would therefore not be considered acoustically feasible; in addition, Barrier BA-2 would not meet the Caltrans design goal of 7 dB noise reduction at one or more benefited receivers for any of the evaluated wall heights. Therefore, BA-2 is not reasonable to construct at the evaluated length extending from the end of the southbound I-710/ Eastbound State Route 91 connector bridge to the existing gore of the Atlantic Avenue eastbound on-ramp. However, there is an existing noise barrier, EXB-2, approximately 12 feet high extending from the beginning of the Atlantic Avenue Undercrossing to the existing gore of the Atlantic Avenue eastbound on-ramp, which would be demolished due to roadway and bridge widening as part of the Project implementation. This existing noise barrier would be replaced in-kind (length and height), at minimum.
As shown in **Table 36**, Barrier BA-4 would achieve the minimum noise reduction to be considered acoustically feasible and would replace existing noise barrier, EXB-4. This noise barrier would also meet the Caltrans design goal of 7 dB noise reduction at one or more benefited receivers for all evaluated wall heights, with a length of approximately 4,864 feet. Barrier BA-4 would be consistent with existing noise barrier EXB-4 that has a height of 14 feet. The estimated construction cost for barrier heights of 14 feet (\$2,566,000) and 16 feet (\$2,834,000) is less than the reasonable allowance of \$4,815,000.

| Design Year with Barrier BA-2                  | 8-Foot<br>Barrier | 10-Foot<br>Barrier | 12-Foot<br>Barrier | 14-Foot<br>Barrier | 16-Foot<br>Barrier |
|------------------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Barrier Noise Reduction (decibels)             | 1 to 2            | 1 to 2             | 1 to 2             | 1 to 2             | 2                  |
| Number of Benefited Receptors                  | 0                 | 0                  | 0                  | 0                  | 0                  |
| Reasonable Allowance Per<br>Benefited Receptor | \$107,000         | \$107,000          | \$107,000          | \$107,000          | \$107,000          |
| Total Reasonable Allowance                     | \$0               | \$0                | \$0                | \$0                | \$0                |
| Design Year with Barrier BA-4                  | 8-Foot<br>Barrier | 10-Foot<br>Barrier | 12-Foot<br>Barrier | 14-Foot<br>Barrier | 16-Foot<br>Barrier |
| Barrier Noise Reduction (decibels)             | 0 to 11           | 1 to 12            | 1 to 13            | 1 to 13            | 1 to 14            |
| Number of Benefited Receptors                  | 23                | 35                 | 45                 | 45                 | 45                 |
| Reasonable Allowance Per<br>Benefited Receptor | \$107,000         | \$107,000          | \$107,000          | \$107,000          | \$107,000          |
| Total Reasonable Allowance                     | \$2,461,000       | \$3,745,000        | \$4,815,000        | \$4,815,000        | \$4,815,000        |

# Table 36: Summary of Noise Abatement, Acoustic Feasibility, and Reasonable Allowances for Feasible Eastbound State Route 91 Barriers

Source: AMBIENT Air Quality and Noise Consulting, 2020

Notes: For Barrier BA-2 and Barrier BA-4, a 10-foot barrier is the minimum height needed to break the line of sight between 11.5foot truck stack and first row receptor. For Barrier BA-4, due to variations in terrain, the minimum height required to break line of sight between the first row of receptors and truck stack varies with barrier location. A 10-foot barrier for Barrier BA-4 is the minimum height needed to achieve 7-decibel noise reduction design goal.

The NSR evaluated all noise-sensitive land uses for traffic noise impacts and corresponding feasible noise abatement measures have been recommended. As a standard practice, construction of new soundwalls will be specified as the first order of work during final design.

Based on the studies completed to date and input from the public, Caltrans intends to incorporate noise abatement in the form of Proposed Barrier BA-4 which extends from: PM LA R12.149 to LA R13.073, with respective lengths and average heights of 4,864 feet and 14 to 16 feet. Barrier BA-4 would be constructed on the edge of the freeway beginning at approximately the edge of the existing retaining wall at the corner of 67th Street and Millmark Avenue on the Atlantic Avenue on-ramp to the vicinity of the existing soundwall on the Cherry Avenue off-ramp. Calculations based on preliminary design data show that the barrier will reduce noise levels by 5 to 13 dBA for 45 residences at a cost of \$57,022 per receptor for a 14-foot barrier; and by 5 to 14 dBA for 45 residences barrier at a cost of \$62,978 per receptor for a 16-foot barrier. In the location where an increase in 13 dBA is predicted to occur, Barrier BA-4 is anticipated to reduce the noise to existing noise levels, or 59 dBA. If conditions have substantially changed during final design, noise abatement may not be constructed. The final decision on noise abatement will be made upon completion of the Project design. As discussed above, the other evaluated

noise barriers (BA-1, BA-1a, BA-1b, BA-3) were not considered reasonable and, therefore, not recommended for construction.

The following avoidance and minimization measures will also be implemented to reduce impacts related to noise and vibration during construction:

- **AVM-NOI-1** Demolition of the existing noise barrier and construction of the proposed noise barrier on top of the retaining wall would be conducted in four segments along the Project Area to minimize traffic noise impacts on nearby residences. Construction within each segment would include demolishing the existing noise barrier, constructing the retaining wall, and then constructing the proposed noise barrier. When a certain section of noise barrier is removed, the work immediately following the demolition would be the construction of the new proposed retaining wall and proposed noise barrier.
- **AVM-NOI-2** Though construction noise and vibration would be temporary and sporadic and would not present any long-term impacts, the following practices would reduce noise and vibration level increases produced by Project construction equipment at nearby noise-sensitive residential land uses:
  - Construction activities shall comply with the Long Beach Municipal Code, which states that construction activities shall only occur on weekdays from 7:00 a.am. to 7:00 p.m. and Saturdays from 9:00 a.m. to 6:00 p.m.,
  - Property owners and occupants located within 200 feet of the Project boundary shall be sent a notice, at least 15 days prior to commencement of construction of each phase, regarding the construction schedule of the proposed project. A sign, legible at 50 feet shall also be posted at the Project construction site. All notices and signs shall be reviewed and approved by Caltrans, prior to mailing or posting and shall indicate the dates and duration of construction activities, as well as provide a contact name and a telephone number where residents can inquire about the construction process and register complaints.
  - Construction noise reduction methods shall be implemented, such as:
    - Replacing worn, loose, or unbalanced machine parts that cause vibration,
    - Keeping machine parts well lubricated to reduce friction,
    - Erecting acoustical enclosures and barriers around generators,

- Installing sound absorbing material and vibration isolation systems on hand tools,
- Turning off equipment when not in use
- Placing stationary construction equipment such that emitted noise is directed away from sensitive noise receivers , and
- Using equipment and tools with minimal noise and vibration, when feasible.
- **AVM-NOI-3** The following procedures shall be implemented to minimize the potential for annoyance from construction vibration:
  - Use cast-in-drilled-hole piles or sonic or vibratory pile drivers, where feasible, to avoid the use of impact-type pile drivers near residences.
  - When there is a possibility of human annoyance from pile driving, conduct activities during weekday daytime hours when residents may be away from their homes.
  - Avoid high vibration–generating activities during the same time in proximity to each other to the maximum extent practicable.
  - Contact residents prior to pile driving to notify them that this activity will be occurring.
- **AVM-NOI-4** During final design, use of rubberized asphalt on the re-constructed portion of the Atlantic Avenue on-ramp and Cherry Avenue off-ramp would be explored to as a long-term noise reduction method.

### **Cumulative Impacts**

The Project Study Area is an urbanized transportation corridor with high existing background noise levels. Existing noise barriers with a nominal height of 8 to 14 feet are generally located between State Route 91 and the residential areas. During construction, noise-sensitive receptors, including nearby residences, may be exposed to increased traffic noise following demolition of the existing soundwall. The Project would not require any pile driving activities for bridge widening and with implementation of **AVM-NOI-2**, project construction would comply with the specified duration times for construction activities per the Long Beach Municipal Code, and construction noise reduction methods would be implemented.

Traffic noise impacts are calculated using forecast traffic data, which takes into account all projects provided in the SCAG 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy and has accounted for cumulative traffic information from other related projects. Additionally, the noise modeling takes into account maximum occupancy of the

roadway; therefore, traffic noise modeling results for predicted design-year conditions inherently accounts for anticipated increases in traffic. As described above, the traffic noise modeling results indicate that traffic noise levels in Area B (located on the south side of State Route 91) are predicted to approach or exceed the NAC at residences; one modeled location is predicted to see an increase in noise up to a 13 dBA between existing conditions and the design year.

Due to the 13 dBA increase, preliminary noise abatement in the form of a soundwall was considered, Barrier BA-4 (see mitigation measure **MM-NOI-1**). The preliminary design data indicates that in the location where an increase in 13 dBA is predicted to occur, Barrier BA-4 is anticipated to reduce the noise to existing noise levels, or 59 dBA. The proposed Project's effects would have potential adverse cumulative noise impacts, however implementation of avoidance, minimization, and abatement measures would minimize noise and vibration impacts.

Of the current and future projects listed in **Table 6** above, the I-710 Corridor Project RDEIR/SDEIS identified traffic noise impacts throughout the corridor under 23 CFR 772 (California Department of Transportation and Los Angeles County Metropolitan Transportation Authority, 2017). Although the I-710 Corridor Project would include soundwalls throughout the corridor, overall noise impacts were determined to be adverse because some noise increases could not feasibly be abated. However, the I-710 Corridor Project includes proposed soundwalls along westbound and Eastbound State Route 91 between Atlantic Avenue and Cherry Avenue to replace the existing soundwalls. The soundwalls are anticipated to provide noise reduction (ranging from six- to nine-dBA) to residences in the surrounding neighborhoods within the Project Study Area. Although environmental documents were not available for the Uptown Commons and Hamilton Loop projects, these projects would be required to implement avoidance, minimization, and/or mitigation measures to comply with the requirements of CEQA and/or NEPA. Furthermore, the proposed land uses for these projects (i.e., commercial and recreational) are not anticipated to be substantial generators of noise.

Based on the above discussion, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to noise with implementation of noise abatement measures discussed above.

### 2.2.7 ENERGY

### **Regulatory Setting**

The National Environmental Policy Act (NEPA) (42 United States Code [USC] Part 4332) requires the identification of all potentially significant impacts to the environment, including energy impacts.

The California Environmental Quality Act (CEQA) Guidelines section 15126.2(b) and Appendix F, Energy Conservation, require an analysis of a project's energy use to determine if the Project may result in significant environmental effects due to wasteful, inefficient, or unnecessary use of energy, or wasteful use of energy resources.

### **Affected Environment**

Existing daily roadway volumes for roadway segments in the Project Area are summarized in **Table 37**; existing freeway volumes are summarized in **Table 38**; and existing freeway HOV volumes are summarized in **Table 39**.

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#### Table 37: Existing Daily Roadway Volumes

| Segment                                                          | Average Daily Traffic |
|------------------------------------------------------------------|-----------------------|
| Artesia Boulevard west of Atlantic Avenue                        | 27,058                |
| Artesia Boulevard between Atlantic Avenue and Myrtle Avenue      | 24,106                |
| Artesia Boulevard between Orange Avenue and Cherry Avenue        | 22,174                |
| Artesia Boulevard between Cherry Avenue and Paramount Boulevard  | 21,581                |
| Atlantic Avenue between State Route 91 and Artesia Boulevard     | 33,717                |
| Orange Avenue between 67th Street and Artesia Boulevard          | 11,672                |
| Cherry Avenue between State Route 91 and Artesia Boulevard       | 33,146                |
| Paramount Boulevard between State Route 91 and Artesia Boulevard | 31,664                |

Source: Iteris, 2019

### Table 38: Existing Freeway Volumes

| Segment or Ramp (West to East)                                                                           | A.M. Peak<br>Hour | P.M. Peak<br>Hour | Daily   |
|----------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------|
| Eastbound State Route 91 HOV Lane at I-710                                                               | 632               | 1,413             | 14,708  |
| Eastbound State Route 91 at 710                                                                          | 2,164             | 3,173             | 29,299  |
| I-710 Northbound to State Route 91 Eastbound Ramp (Direct Connector)                                     | 2,149             | 1,791             | 38,748  |
| Eastbound State Route 91 between I-710 Northbound and 710 Southbound (Direct Connector)                  | 4,313             | 4,964             | 68,047  |
| I-710 Southbound to State Route 91 Eastbound Ramp (Direct Connector)                                     | 1,607             | 1,952             | 35,223  |
| Eastbound State Route 91 between I-710 Southbound Direct Connector and Eastbound Atlantic Avenue On-ramp | 5,920             | 6,916             | 103,270 |
| Eastbound Atlantic Avenue On-ramp                                                                        | 592               | 714               | 11,634  |
| Eastbound State Route 91 Atlantic Avenue to Cherry Avenue                                                | 6,512             | 7,630             | 114,904 |
| Cross-weave Net Difference                                                                               | 357               | 62                | 2,533   |
| Eastbound State Route 91 HOV Lane at Cherry Avenue                                                       | 989               | 1,475             | 17,241  |
| Eastbound Cherry Avenue Off-ramp                                                                         | 535               | 347               | 5,651   |
| Eastbound State Route 91 Between Cherry Avenue Off-ramp & On-ramp (using Downey Avenue data)             | 5,620             | 7,221             | 106,720 |
| Eastbound Cherry Avenue On-ramp                                                                          | 824               | 774               | 12,619  |
| Eastbound State Route 91 Cherry Avenue to Paramount Boulevard                                            | 6,444             | 7,995             | 119,339 |
| Eastbound Paramount Boulevard On-ramp                                                                    | 665               | 452               | 7,365   |
| Eastbound State Route 91 Between Paramount Boulevard Off-<br>ramp and On-ramp                            | 5,779             | 7,543             | 111,974 |
| Eastbound Paramount Boulevard On-ramp                                                                    | 380               | 499               | 8,133   |
| Eastbound State Route 91 East of Paramount Boulevard                                                     | 6,159             | 8,042             | 120,107 |

Source: Final Traffic Operations Analysis Report (Intueor Consulting, September 2020)

Notes: HOV = High-Occupancy Vehicle; I-710 = Interstate 710

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#### Table 39: Existing Freeway HOV Volumes

| Segment (West to East)                               | A.M. Peak Hour | P.M. Peak Hour | Daily  |
|------------------------------------------------------|----------------|----------------|--------|
| Eastbound State Route 91 HOV Lane near Butler Avenue | 632            | 1,413          | 14,708 |
| Eastbound State Route 91 HOV Lane at Downey Avenue   | 989            | 1,475          | 17,241 |
| Change in Eastbound HOV Volumes                      | 357            | 62             | 2,533  |

Source: Iteris, 2019

Notes: HOV = High-Occupancy Vehicle

Freeway HOV volumes are based on March, April, May 2019 averages.

#### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on energy.

#### ALTERNATIVE 2 (BUILD ALTERNATIVE)

The Build Alternative would include the addition of a 0.86-mile-long auxiliary lane on Eastbound State Route 91. Therefore, a qualitative analysis for energy impacts is included below, as the Project improvements include an auxiliary lane of less than one mile in length.

Transportation energy is generally described in terms of direct and indirect energy, defined as follows:

- **Direct Energy:** In the context of transportation, direct energy involves all energy consumed by vehicle propulsion (e.g., automobiles, trains, airplanes). This energy consumption is a function of traffic characteristics such as vehicle miles traveled (VMT) (volume X distance traveled), speed, vehicle mix, and thermal value of the fuel being used. Some projects may also include features such as new or replacement roadway lighting or other features requiring electricity which is an ongoing and permanent source of direct energy consumption. The one-time energy expenditure involved in constructing a project is also considered direct energy.
- **Indirect Energy** includes maintenance activities which would result in long-term indirect energy consumption by equipment required to operate and maintain the roadway.

As noted in Section 2.1.3, Traffic and Transportation/Pedestrian and Bicycle Facilities, the Project would not result in significant increases in traffic volumes along area roadways, nor would the Project result in a significant increase in the number of diesel vehicles operating along area roadways. In addition, because of the roadway improvements that would result under the Build Alternative, increased operational efficiencies and improved vehicle operations would be expected to reduce energy consumption. Furthermore, under the Build Alternative, maintenance activities are not anticipated to increase beyond existing conditions. The Build Alternative would include electrical work for new powered overhead signs and replacement roadway lighting;

however, the energy requirements would not differ substantially from existing conditions. Therefore, the Project would not result in an inefficient, wasteful, and unnecessary consumption of energy. Project construction would primarily consume diesel and gasoline through operation of heavy-duty construction equipment, material deliveries, and debris hauling. This represents a small demand on local and regional fuel supplies that would be easily accommodated, and this demand would cease once construction is complete.

Moreover, construction-related energy consumption would be temporary and not a permanent new source of energy demand, and demand for fuel would have no noticeable effect on peak or baseline demands for energy. While construction would result in a short-term increase in energy use, construction design features would help conserve energy. For example, recycled materials will be used where feasible (see **AVM-EN-1** through **AVM-EN-5** below under Avoidance, Minimization, and/or Mitigation Measures). Recycled products typically have lower manufacturing and transport energy costs since they do not utilize raw materials, which must be mined and transported to a processing facility. These energy conservation features are consistent with State and local policies to reduce energy. Therefore, the Project would not result in an inefficient, wasteful, and unnecessary consumption of energy.

As discussed above, the Build Alternative would not result in adverse impacts on energy.

### Avoidance, Minimization, and/or Mitigation Measures

The Build Alternative would not result in adverse effects related to energy consumption; therefore, no avoidance, minimization, or mitigation measures are required. However, the following avoidance and minimization measures are recommended to conserve energy during project construction:

- **AVM-EN-1** During construction, Metro and Caltrans will implement construction efficiency measures, as feasible, including the reuse of existing rail, steel, and lumber wherever possible, such as for falsework, shoring, and other applications during the construction process.
- **AVM-EN-2** During construction, Metro and Caltrans will implement construction efficiency measures, as feasible, including recycling asphalt taken up from roadways, if practicable and cost-effective.
- **AVM-EN-3** During construction, Metro and Caltrans will implement construction efficiency measures, as feasible, including using newer, more energy-efficient equipment where feasible, and maintaining older construction equipment to keep in good working order.
- **AVM-EN-4** During construction, Metro and Caltrans will implement construction efficiency measures, as feasible, including scheduling of construction operations to efficiently use construction equipment (e.g., only haul waste

when haul trucks are full and combine smaller dozer operations into a single comprehensive operation, where possible).

**AVM-EN-5** During construction, Metro and Caltrans will implement construction efficiency measures, as feasible, including promoting construction employee carpooling.

#### **Cumulative Impacts**

Past development has contributed to increasing energy consumption in the Project Study Area. During construction, the Project would not result in an inefficient, wasteful, and unnecessary consumption of energy. As discussed above, the proposed Project is anticipated to reduce energy consumption through increased operational efficiencies and improved vehicle operations. Therefore, the proposed Project would not contribute to a cumulative impact on energy and no further analysis is required.

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### 2.3 Biological Environment

The Biological Environment section of the environmental document is divided into the following subsections:

- Plant Species
- Animal Species
- Invasive Species

### 2.3.1 PLANT SPECIES

### **Regulatory Setting**

The U.S. Fish and Wildlife Service (USFWS) and CDFW have regulatory responsibility for the protection of special-status plant species. "Special-status" species are selected for protection because they are rare and/or subject to population and habitat declines. Special status is a general term for species that are provided varying levels of regulatory protection. The highest level of protection is given to threatened and endangered species; these are species that are formally listed or proposed for listing as endangered or threatened under the Federal Endangered Species Act (FESA) and/or the California Endangered Species Act (CESA).

This section of the document discusses all other special-status plant species, including CDFW species of special concern, USFWS candidate species, and California Native Plant Society (CNPS) rare and endangered plants.

The regulatory requirements for FESA can be found at 16 United States Code (USC) Section 1531, et seq. See also 50 Code of Federal Regulations (CFR) Part 402. The regulatory requirements for CESA can be found at California Fish and Game Code, Section 2050, et seq. Department projects are also subject to the Native Plant Protection Act, found at California Fish and Game Code, Section 1900-1913, and the California Environmental Quality Act (CEQA), found at California Public Resources Code, Sections 21000-21177.

### **Affected Environment**

A Natural Environment Study (Minimal Impacts) (NES(MI)) was completed in December 2020 for the Project to discuss potential impacts on biological resources.

Vegetation communities within the Biological Study Area include ruderal and ornamental. Ruderal areas were observed along the perimeter of a vacant dirt lot in the southwest portion of the Biological Study Area, within a vacant lot at the southwest corner of the intersection of the Eastbound State Route 91 off-ramp at Atlantic Avenue, and at the Eastbound State Route 91 entry gore at Cherry Avenue. Ruderal species observed in the Biological Study Area include, but are not limited to, red stemmed filaree (*Erodium cicutarium*), cultivated radish (*Raphanus sativus*), and ripgut brome (*Bromus diandrus*).

Ornamental communities were observed adjacent to the Eastbound State Route 91 on-ramps and off-ramps, in the area between the Eastbound State Route 91 soundwall and 67th Street,

and adjacent to residential and commercial development. Ornamental species observed in the Biological Study Area include, but are not limited to, sea fig (*Carpobrotus edulis*), Brazilian pepper tree (*Schinus terebinthifolius*), oleander (*Nerium oleander*), and jacaranda (*Jacaranda mimosifolia*) (refer to Appendix D for a full list of the species observed during field surveys).

The Biological Study Area also consists of unvegetated areas, including a disturbed field adjacent to the south side of the State Route 91 undercrossing, and developed areas that include paved roads; sidewalks; industrial, residential, and commercial development; and transportation infrastructure.

According to records searches, 53 special-status plant species have the potential to be in the Biological Study Area based on recorded geographical distribution. However, the ruderal and ornamental vegetation communities in the Biological Study Area do not support 52 of these special-status plant species (refer to Appendix D for a full list of the special-status plant species and their habitat requirements). Based on habitat requirements and the results of the biological survey, there is potential for one special-status plant species to be in the Biological Study Area: the southern tarplant (*Centromadia parryi ssp. australis*). During the biological survey on January 22, 2019, the southern tarplant was not observed in the Biological Study Area.

The southern tarplant is an annual herb found primarily in vernally wet areas such as along the edges of marshes and vernal pools. This species is often found in association with valley and foothill grasslands where competition from other plants is limited by alkalinity, seasonal soil saturation, or the effects of human disturbance. The Biological Study Area does not include marshes and vernal pools; however, there are moist, disturbed areas at the western extent of the Biological Study Area under the State Route 91 overpass that could support the southern tarplant. Therefore, there is potential for this species to be in the Biological Study Area.

### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on plant species.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

The Project would not result in the direct removal of the southern tarplant. However, construction activities would include pedestrian and vehicle movement, staging, grading, paving, and removal and trimming of ornamental vegetation within the Biological Study Area, which could result in indirect impacts on plant species including the southern tarplant if these activities were to be conducted while individuals are present within or adjacent to the affected areas. This species could be indirectly impacted from dust and/or herbicide use. However, with the implementation of avoidance and minimization measures (see **AVM-BIO-1** through **AVM-BIO-3** below under Avoidance, Minimization, and/or Mitigation Measures), the Build Alternative would not result in adverse impacts on the southern tarplant.

### Avoidance, Minimization, and/or Mitigation Measures

The following avoidance and minimization measures will be implemented to reduce impacts on plant species:

- **AVM-BIO-1** Prior to construction, a qualified biologist would conduct rare plant surveys within the construction area. Surveys would be conducted during the appropriate blooming period for species with potential to be in the construction area, to the extent feasible.
- **AVM-BIO-2** If a special-status plant species is found during pre-construction surveys, high visibility Environmentally Sensitive Area (ESA) protective fencing would be installed around the special-status plants to prevent construction staff or equipment from entering this area. The ESA protective fencing buffer would be species specific, with a minimum buffer radius based on the guidance from a qualified biologist.
- AVM-BIO-3 All excluded areas with ESA protective fencing would be monitored to determine whether exclusion measures were successful and to identify any outstanding concerns. Exclusionary measures would be monitored throughout construction to ensure they are functioning correctly and would be removed following construction

With implementation of these avoidance and minimization measures, the Build Alternative would not result in adverse impacts on plant species.

### **Cumulative Impacts**

Past actions have contributed to the loss of suitable habitat for special-status plant species within the Project Study Area. One special-status plant species, southern tarplant has the potential to be in the Project Study Area due to suitable habitat. However, the southern tarplant was not observed during field surveys for the proposed Project. As discussed above, the proposed Project would not result in the direct removal of the southern tarplant and the proposed Project would include avoidance and minimization measures **AVM-BIO-1** through **AVM-BIO-3** to prevent adverse impacts on the southern tarplant.

Of the current and future projects listed in **Table 6** above, the I-710 Corridor Project would result in direct permanent impacts to the southern tarplant, as well as indirect impacts on the species due to shading. The I-710 Corridor Project would include relocation of affected populations or other restoration efforts developed in consultation with the CDFW to mitigate impacts on southern tarplant and additional avoidance and minimization measures would be implemented during construction of the I-710 Corridor Project, including retaining a biological monitor to educate construction personnel and monitor vegetation removal activities. Although environmental documents were not available for the Uptown Commons and Hamilton Loop projects, these projects would be required to implement avoidance, minimization, and/or

mitigation measures to comply with the regulatory requirements for special-status plant species described under the Regulatory Setting section above.

Based on the above discussion, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to the southern tarplant and mitigation would not be required.

### 2.3.2 ANIMAL SPECIES

### **Regulatory Setting**

Many state and federal laws regulate impacts to wildlife. The U.S. Fish and Wildlife Service (USFWS), the National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NOAA Fisheries), and the California Department of Fish and Wildlife (CDFW) are responsible for implementing these laws. This section discusses potential impacts and permit requirements associated with animals not listed or proposed for listing under the federal or state Endangered Species Act. All other special-status animal species are discussed here, including CDFW fully protected species and species of special concern, and USFWS or NOAA Fisheries candidate species.

Federal laws and regulations relevant to wildlife include the following:

- National Environmental Policy Act
- Migratory Bird Treaty Act
- Fish and Wildlife Coordination Act

State laws and regulations relevant to wildlife include the following:

- California Environmental Quality Act
- Sections 1600 1603 of the California Fish and Game Code
- Sections 4150 and 4152 of the California Fish and Game Code

### Affected Environment

A NES(MI) was completed in December 2020 for the Project to discuss potential impacts on biological resources.

Vegetation communities within the Biological Study Area include ruderal and ornamental. Habitat within the Biological Study Area is disturbed; however, the Biological Study Area contains ornamental trees, fallen branches, and leaf litter, which may provide habitat for wildlife. Vegetation and wildlife habitat within the Biological Study Area is predominately located along the Eastbound State Route 91 soundwall between State Route 91 and East 67<sup>th</sup> Street. Pictures of the Biological Study Area are shown in **Figure 20**.

According to records searches, 114 special-status wildlife species have the potential to be in the Biological Study Area based on recorded geographical distribution (refer to Appendix D for a full list of the special-status wildlife species). Based on the existing habitat in the Biological Study

Area, 11 special-status birds have potential to be in the Biological Study Area, including the Cooper's hawk (*Accipiter cooperii*), sharp-shinned hawk (*Accipiter striatus*), great egret, great blue heron, Vaux's swift, snowy egret, white-tailed kite (*Elanus leucurus*), merlin (*Falco columbarius*), American peregrine falcon (*Falco peregrinus anatum*), California gull (*Larus californicus*), and rufous hummingbird (*Selasphorus rufus*). Suitable habitat in the Biological Study Area that could support these species includes areas containing trees and nectar producing shrubs and vines along the Eastbound State Route 91 soundwall.

Based on the existing habitat in the Biological Study Area, nine special-status bats have potential to be in the Biological Study Area, including the cave myotis (*Myotis velifer*), big free-tailed bat (*Nyctinomops macrotis*), hoary bat (Lasiurus cinereus), pallid bat (*Antrozous pallidus*), pocketed free-tailed bat (*Nyctinomops femorosaccus*), western mastiff bat (*Eumops perotis californicus*), western red bat (*Lasiurus blossevillii*), Yuma myotis (*Myotis yumanensis*), and western yellow bat (*Lasiurus xanthinus*). Suitable habitat in the Biological Study Area that could support these species includes bridges, buildings, and trees.

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Figure 20: Pictures of Biological Study Area



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During the biological survey conducted on January 22, 2019, multiple bird species were observed foraging or flying over the Biological Study Area. These common species include the black phoebe (*Sayornis nigricans*), red-tailed hawk (*Buteo jamaicensis*), American crow (*Corvus brachyrhynchos*), and yellow-rumped warbler (*Setophaga coronata*). In addition, cliff swallow nests were observed on a bridge column.

### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts on animal species.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

As stated above, the Biological Study Area contains ornamental trees, fallen branches, and leaf litter, which may provide habitat for wildlife. Vegetation and wildlife habitat within the Biological Study Area is predominately located along the Eastbound State Route 91 soundwall between State Route 91 and East 67<sup>th</sup> Street. This vegetation may provide roosting and foraging habitat for birds, insects, and wildlife. Migratory birds have potential to be nesting and foraging in the Biological Study Area and construction area during construction. In addition, special-status birds and bats have potential to be in the Biological Study Area.

Construction activities in the Biological Study Area would include approximately five acres of vegetation and tree removal and trimming, particularly within the vegetated area along the Eastbound State Route 91 soundwall. Tree trimming and removal could result in direct impacts on birds and bats if they were to be nesting or roosting in the construction area. In addition, vegetation and tree removal could reduce roosting and foraging habitat for birds, insects, and wildlife.

Other construction activities in the Biological Study Area would include breaking up of concrete to remove bridge rails, pedestrian and vehicle movement, staging, grading, and paving. These activities could result in impacts on special-status avian species if birds are nesting within or adjacent to the affected areas. In addition, construction activities could temporarily disrupt foraging in the Biological Study Area. These activities could also result in impacts on bats if they were to be in the construction area. In addition, noise and vibration could result in indirect impacts on special-status species.

The Project would include implementation of avoidance and minimization measures to reduce direct and indirect impacts on migratory birds and special-status birds and bats (see **AVM-BIO-4** through **AVM-BIO-16** below under Avoidance, Minimization, and/or Mitigation Measures). These measures include limiting construction activities to outside of nesting and roosting periods when feasible. If construction is necessary during these periods, other measures would be implemented and may include conducting bird and bat surveys, establishing buffer zones

around nests and roosting sites, allowing foraging birds to leave the construction area, and implementing exclusionary measures for bats.

In addition, the Landscape Concept Design for the Project would be prepared in consultation with the Caltrans Landscape Architect, which would include replanting ratios, vegetation types, and establishment criteria (see **AVM-BIO-17**). With the implementation of these avoidance and minimization measures, the Build Alternative would not result in adverse impacts on animal species, including migratory birds and special-status birds and bats.

### Avoidance, Minimization, and/or Mitigation Measures

The following avoidance and minimization measures will be implemented to reduce impacts on animal species:

- **AVM-BIO-4** Construction during bird nesting season (typically February 1 to September 1) would be avoided to the extent feasible.
- **AVM-BIO-5** If construction is required during the nesting season, vegetation removal would be conducted outside of the nesting season (typically February 1 to September 1), wherever feasible.
- **AVM-BIO-6** If construction is scheduled to begin during nesting bird season, nesting bird surveys would be completed by a qualified biologist no more than 72 hours prior to construction, or as determined by the qualified biologist, to determine if nesting birds or active nests are present within the construction area. Surveys would be conducted within 150 feet for songbirds and 500 feet for raptors, or as otherwise determined by the qualified biologist. Surveys would be repeated if construction activities are suspended for five days or more.
- **AVM-BIO-7** If nesting birds/raptors are found within 500 feet of the construction area, appropriate buffers consisting of orange flagging/fencing or similar (typically 150 feet for songbirds, and 500 feet for raptors, or as directed by a qualified biologist) would be installed and maintained until nesting activity has ended, as determined in coordination with the qualified biologist and regulatory agencies, as appropriate.
- **AVM-BIO-8** In the event that trimming, or removal of vegetation and trees must be conducted during bird nesting season, nesting bird surveys would be completed within 500 feet of the vegetation to be trimmed or removed by a qualified biologist no more than 72 hours prior to trimming or cleaning activities to determine if nesting birds are within the affected vegetation. Surveys would be conducted within 150 feet for songbirds and 500 feet for raptors, or as otherwise determined by the qualified biologist. Nesting bird

surveys would be repeated if trimming or removal activities are suspended for five days or more.

- **AVM-BIO-9** In the event that any bird species is observed foraging within the construction site, it would be allowed to move away from the site prior to initiating any construction activities that could result in direct injury of the individual.
- **AVM-BIO-10** Where feasible, tree removal would be conducted after October 31, which is outside of the maternal and non-active seasons for bats.
- **AVM-BIO-11** During the summer months (June to August) prior to construction, a thorough bat roosting habitat assessment would be conducted of all trees and structures within 100 feet of the construction area. Visual and acoustic surveys would be conducted for at least two nights during appropriate weather conditions to assess the presence of roosting bats. If presence is detected, a count and species analysis would be completed to help assess the type of colony and usage.
- **AVM-BIO-12** No fewer than 30 days prior to construction, and during the non-breeding and active season (typically October), bats would be safely evicted from any roosts to be impacted by the Project. The eviction plan would be developed by, and completed under the direction of, a qualified biologist. Once bats have been safely evicted, exclusionary devices would be installed to prevent bats from returning and roosting in these areas prior to removal. Roosts not impacted by the Project would be left undisturbed.
- **AVM-BIO-13** No fewer than two weeks prior to construction, all excluded areas would be surveyed to determine whether exclusion measures were successful and to identify any outstanding concerns. Exclusionary measures would be monitored throughout construction to ensure they are functioning correctly and would be removed following construction
- **AVM-BIO-14** If the presence or absence of bats cannot be confirmed in potential roosting habitat, a qualified biologist would be onsite during removal or disturbance of this area. If the biologist determines that bats are being disturbed during this work, work would be suspended until bats have left the vicinity on their own or can be safely excluded under direction of the biologist. Work would resume only once all bats have left the site and/or approval, is given by a qualified biologist.
- **AVM-BIO-15** In the event that a maternal colony of bats is found, no work would be conducted within 100 feet of the maternal roosting site until the maternal season is finished or the bats have left the site, or as otherwise directed by a

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qualified biologist. No equipment, personnel, or construction activities would be allowed within the buffer unless authorized in advance by a qualified biologist.

- **AVM-BIO-16** Prior to construction, inactive cliff swallow nests and other nests would be removed under supervision of a qualified biologist during the non-breeding season for cliff swallows (typically September 16 to February 14). The inactive nests would also be checked for bats prior to removal. During the nesting season for cliff swallows (typically February 1 to September 15), the Project Area would be monitored as necessary to ensure that no new nests are built, and any partially-built nests would be removed from the bridge during construction to prevent swallows from nesting on the bridge structure. Monitoring and nesting deterrence would continue until birds no longer attempt to nest.
- **AVM-BIO-17** The Landscape Concept Design for the Project would be prepared in consultation with the Caltrans Landscape Architect, which would include replanting ratios, vegetation types, and establishment criteria.

With implementation of these avoidance and minimization measures, the Build Alternative would not result in adverse impacts on animal species.

### **Cumulative Impacts**

Past actions have contributed to the loss of suitable habitat for special-status animal species within the Project Study Area. The proposed Project would include avoidance and minimization measures to prevent adverse impacts on the 20 special-status species (11 special-status birds and 9 special-status bats) that have potential to be in the Project Study Area.

Of the current and future projects listed in **Table 6**, four of the above-referenced 20 specialstatus species (California gull, Cooper's hawk, rufous hummingbird, and western mastiff bat) have potential to occur within the construction area for the State Route 91 Central Avenue to Acacia Court Project. Similar to the proposed Project, the State Route 91 Central Avenue to Acacia Court Project would include project features to avoid or reduce impacts on special-status avian and bat species. Although environmental documents were not available for the Uptown Commons and Hamilton Loop projects, these projects would be required to implement avoidance, minimization, and/or mitigation measures to comply with the regulatory requirements for special-status animal species described under the Regulatory Setting section above.

Based on the above discussion, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to these animal species and mitigation would not be required.

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### 2.3.3 INVASIVE SPECIES

### **Regulatory Setting**

On February 3, 1999, President William J. Clinton signed Executive Order 13112 requiring federal agencies to combat the introduction or spread of invasive species in the United States. The order defines invasive species as "any species, including its seeds, eggs, spores, or other biological material capable of propagating that species, that is not native to that ecosystem whose introduction does or is likely to cause economic or environmental harm or harm to human health." Federal Highway Administration guidance issued August 10, 1999 directs the use of the State's invasive species list, maintained by the <u>California Invasive Species Council</u> to define the invasive species that must be considered as part of the National Environmental Policy Act (NEPA) analysis for a proposed Project.

### Affected Environment

There are 14 invasive plant species growing in the Biological Study Area that are listed by the Invasive Species Council of California as invasive to California, including sea fig (*Carpobrotus edulis*), Brazilian peppertree (*Schinus terebinthifolius*), bristly ox-tongue (*Helminthotheca echioides*), cultivated radish (*Raphanus sativus*), Russian thistle (*Salsola tragus*), castor bean (*Ricinus* communis), blackwood acacia (*Acacia melanoxylon*), redstem filaree (*Erodium cicutarium*), tree of heaven (*Ailanthus altissima*), lantana (*Lantana camara*), Mexican fan palm (*Washingtonia robusta*), crimson fountaingrass (*Pennisetum* setaceum), ripgut brome (*Bromus diandrus*), and Bermuda grass (*Cynodon dactylon*).

### **Environmental Consequences**

### ALTERNATIVE 1 (NO BUILD ALTERNATIVE)

Under this alternative, Project improvements would not be developed or constructed on Eastbound State Route 91 within the Project Area. The No Build Alternative would not result in any changes to existing conditions. Therefore, the No Build Alternative would not result in adverse impacts related to invasive species.

### ALTERNATIVE 2 (BUILD ALTERNATIVE)

Invasive species are often found in disturbed areas, and project activities would have the potential to spread invasive species through further disturbance of the Biological Study Area. These species could also be spread through the improper disposal of the graded and excavated soils onsite or offsite, or through landscaping with invasive species.

In compliance with the Executive Order on Invasive Species, Executive Order 13112, and guidance from the Federal Highway Administration, the landscaping and erosion control included in the Project will not use species listed as invasive. None of the species on the California list of invasive species is used by Caltrans for erosion control or landscaping in the Project Area. All equipment and materials will be inspected for the presence of invasive species and cleaned if necessary. In areas of particular sensitivity, extra precautions will be taken if

invasive species are found in or next to the construction areas. These include the inspection and cleaning of construction equipment and eradication strategies to be implemented should an invasion occur.

In addition, with the implementation of avoidance and minimization measures (see **AVM-BIO-18** through **AVM-BIO-20** below under Avoidance, Minimization, and/or Mitigation Measures), the Build Alternative would not result in adverse impacts related to invasive species.

### Avoidance, Minimization, and/or Mitigation Measures

The following avoidance and minimization measures will be implemented to reduce impacts related to invasive species:

- **AVM-BIO-18** Invasive vegetation removed from the Biological Study Area would be treated and disposed of in a manner that would prevent the spread of invasive species onsite or offsite.
- **AVM-BIO-19** New landscaping materials, including erosion control seed mixes and other plantings, would be composed of non-invasive species and would be clear of weeds, and all erosion control and landscape planting would be conducted in a manner that would not result in the spread of invasive species.
- AVM-BIO-20 Plants listed in the Pest Ratings of Noxious Weed Species and Noxious Weed Seed (United States Department of Agriculture, 2003) would not be used as part of the Project.

With implementation of these avoidance and minimization measures, the Build Alternative would not result in adverse impacts related to invasive species.

### **Cumulative Impacts**

Past actions have contributed to the spread of invasive species within the Project Study Area. The proposed Project would be required to comply with Executive Order 13112, such that its effects related to the spread of invasive species would be relatively minor. The current and future projects listed in **Table 6** above would include ground disturbing activities that could contribute to the spread of invasive species; however, these effects would be minimized through compliance with Executive Order 13112. Therefore, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effect related to invasive species and mitigation would not be required.

# Chapter 3 – California Environmental Quality Act (CEQA) Evaluation

# 3.1 Determining Significance under CEQA

The Project is a joint project by the California Department of Transportation (Department) and the Federal Highway Administration and is subject to state and federal environmental review requirements. Project documentation, therefore, has been prepared in compliance with both the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). The Federal Highway Administration's responsibility for environmental review, consultation, and any other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by Caltrans pursuant to 23 United States Code Section 327 (23 USC 327) and the Memorandum of Understanding dated December 23, 2016, and executed by the Federal Highway Administration and Caltrans. Caltrans is the lead agency under CEQA and NEPA.

One of the primary differences between NEPA and CEQA is the way significance is determined. Under NEPA, significance is used to determine whether an EIS, or a lower level of documentation, will be required. NEPA requires that an EIS be prepared when the proposed federal action (project) *as a whole* has the potential to "significantly affect the quality of the human environment." The determination of significance is based on context and intensity. Some impacts determined to be significant under CEQA may not be of sufficient magnitude to be determined significant under NEPA. Under NEPA, once a decision is made regarding the need for an EIS, it is the magnitude of the impact that is evaluated and no judgment of its individual significance is deemed important for the text. NEPA does not require that a determination of significant impacts be stated in the environmental documents.

CEQA, on the other hand, does require Caltrans to identify each "<u>significant effect on the</u> <u>environmen</u>t" resulting from the Project and ways to mitigate each significant effect. If the Project may have a significant effect on any environmental resource, then an EIR must be prepared. Each and every significant effect on the environment must be disclosed in the EIR and mitigated if feasible. In addition, the CEQA Guidelines list a number of "<u>mandatory findings</u> <u>of significance</u>," which also require the preparation of an EIR. There are no types of actions under NEPA that parallel the findings of mandatory significance of CEQA. This chapter discusses the effects of this project and CEQA significance.

### 3.2 CEQA Environmental Checklist

This checklist identifies physical, biological, social, and economic factors that might be affected by the proposed Project. In many cases, background studies performed in connection with the Projects will indicate that there are no impacts to a particular resource. A NO IMPACT answer in the last column reflects this determination. The words "significant" and "significance" used throughout the following checklist are related to CEQA, not NEPA, impacts. The questions in this form are intended to encourage the thoughtful assessment of impacts and do not represent thresholds of significance.

Project features, which can include both design elements of the Project, and standardized measures that are applied to all or most Caltrans projects such as Best Management Practices and measures included in the Standard Plans and Specifications or as Standard Special Provisions, are considered to be an integral part of the Project and have been considered prior to any significance determinations documented below; see Chapters 1 and 2 for a detailed discussion of these features. The annotations to this checklist are summaries of information contained in Chapter 2 in order to provide the reader with the rationale for significance determinations; for a more detailed discussion of the nature and extent of impacts, please see Chapter 2. This checklist incorporates by reference the information contained in Chapters 1 and 2.

### AESTHETICS

| Except as provided in Public Resources Code<br>Section 21099, would the Project:                                                                                                                                                                                                                                                                                                                   | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Have a substantial adverse effect on a scenic vista?                                                                                                                                                                                                                                                                                                                                            |                                             |                                                                |                                    | $\boxtimes$  |
| b) Substantially damage scenic resources,<br>including, but not limited to, trees, rock<br>outcroppings, and historic buildings within a<br>state scenic highway?                                                                                                                                                                                                                                  |                                             |                                                                |                                    | $\boxtimes$  |
| c) In non-urbanized areas, substantially<br>degrade the existing visual character or quality<br>of public views of the site and its surroundings?<br>(Public views are those that are experienced<br>from a publicly accessible vantage point). If the<br>Project is in an urbanized area, would the<br>Project conflict with applicable zoning and other<br>regulations governing scenic quality? |                                             |                                                                |                                    |              |
| d) Create a new source of substantial light or<br>glare which would adversely affect day or<br>nighttime views in the area?                                                                                                                                                                                                                                                                        |                                             |                                                                |                                    | $\square$    |

### **CEQA Significance Determinations for Aesthetics**

### a) No Impact

The Project would not have a substantial adverse impact on a scenic vista because the Project Area does not include any scenic vistas.

### b, c) No Impact

As discussed in the Visual/Aesthetics section in Chapter 2, the Project Area is not located within a state scenic highway. The Project would include pushing the soundwalls out 10 to 15 feet, parallel to the existing walls, but would maintain similar forms, lines, colors, textures, and height within the area. The roadway would still be the most prominent visual element. The visual character of the Project would be fully compatible with the existing visual character of the corridor. The visual quality of the existing corridor would not be altered by the Project. Viewer sensitivity in the area is considered moderately-low. The Project would not conflict with applicable zoning and other regulations governing scenic quality.

### d) No Impact

The proposed Project would not include new lighting elements in an area in which there is currently no lighting.

### AGRICULTURE AND FOREST RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

| Would the Project:                                                                                                                                                                                                                                                                                           | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporate<br>d | Less Than<br>Significant<br>Impact | No Impact   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------|------------------------------------|-------------|
| a) Convert Prime Farmland, Unique<br>Farmland, or Farmland of Statewide<br>Importance (Farmland), as shown on the<br>maps prepared pursuant to the Farmland<br>Mapping and Monitoring Program of the<br>California Resources Agency, to non-<br>agricultural use?                                            |                                             |                                                                    |                                    | $\boxtimes$ |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?                                                                                                                                                                                                                         |                                             |                                                                    |                                    | $\boxtimes$ |
| c) Conflict with existing zoning for, or cause<br>rezoning of, forest land (as defined in Public<br>Resources Code section 12220(g)),<br>timberland (as defined by Public Resources<br>Code section 4526), or timberland zoned<br>Timberland Production (as defined by<br>Government Code section 51104(g))? |                                             |                                                                    |                                    | $\boxtimes$ |
| d) Result in the loss of forest land or<br>conversion of forest land to non-forest use?                                                                                                                                                                                                                      |                                             |                                                                    |                                    | $\boxtimes$ |
| e) Involve other changes in the existing<br>environment which, due to their location or<br>nature, could result in conversion of<br>Farmland, to non-agricultural use or<br>conversion of forest land to non-forest use?                                                                                     |                                             |                                                                    |                                    | $\boxtimes$ |

### **CEQA Significance Determinations for Agriculture and Forest Resources**

#### a) No Impact

According to the California Department of Conservation's (CDOC) Farmland Mapping and Monitoring Program (FMMP), there are no lands near or within the Project Area that are designated as Prime Farmland, Unique Farmland, or Farmland or Statewide Importance.

#### b) No Impact

There are no parcels under a Williamson Act contract within the Project limits.

#### c, d) No Impact

There are no forest or timberlands within the Project limits.

#### e) No Impact

There are no other changes anticipated to farmland or forest land.

# Chapter 3 – California Environmental Quality Act (CEQA) Evaluation

### AIR QUALITY

| Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.            |                                             |                                                                |                                    |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| Would the Project:                                                                                                                                                                                             | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
| a) Conflict with or obstruct implementation of the applicable air quality plan?                                                                                                                                |                                             |                                                                | $\boxtimes$                        |              |
| b) Result in a cumulatively considerable net<br>increase of any criteria pollutant for which the<br>Project region is non- attainment under an<br>applicable federal or state ambient air quality<br>standard? |                                             |                                                                |                                    |              |
| c) Expose sensitive receptors to substantial pollutant concentrations?                                                                                                                                         |                                             |                                                                | $\square$                          |              |
| d) Result in other emissions (such as those<br>leading to odors) adversely affecting a<br>substantial number of people?                                                                                        |                                             |                                                                | $\square$                          |              |

### **CEQA Significance Determinations for Air Quality**

### a, b, c, d) Less Than Significant Impact

The Project is located in the South Coast Air Basin and is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD) and the California Air Resources Board (CARB). The SCAQMD is the primary agency responsible for writing the Air Quality Management Plan (AQMP) in cooperation with SCAG, local governments, and the private sector. The AQMP provides the blueprint for meeting state and federal ambient air quality standards. The Project would have no substantial impacts on traffic volumes and would generate a less than significant amount of pollutants during construction due to the very short duration of Project construction. The Project is included in SCAG's most recent Regional Transportation Plan and Federal Transportation Improvement Program both of which were found to be conforming (see Air Quality section of Chapter 2). Therefore, the proposed Project will not conflict with the AQMP, violate any air quality standard, result in a net increase of any criteria pollutant, or expose sensitive receptors to substantial pollutant concentrations. Impacts will be less than significant. No mitigation is required.

Temporary construction activities could generate fugitive dust from the operation of construction equipment. The Project will comply with construction standards adopted by the South Coast Air Quality Management District (SCAQMD) as well as Caltrans standardized procedures for minimizing air pollutants during construction.

Minor sources of odors would be present during construction. The predominant source of power for construction equipment is diesel engines. Exhaust odors from diesel engines, as

well as emissions associated with asphalt paving, may be considered offensive to some individuals. However, because odors would be temporary and would disperse rapidly with distance from the source, construction-generated odors would not be anticipated to result in the frequent exposure of receptors to objectionable odorous emissions. Impacts will be less than significant. No mitigation is required.

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### BIOLOGICAL RESOURCES

| Would the Project:                                                                                                                                                                                                                                                                                                                                      | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Have a substantial adverse effect, either<br>directly or through habitat modifications, on any<br>species identified as a candidate, sensitive, or<br>special status species in local or regional plans,<br>policies, or regulations, or by the California<br>Department of Fish and Wildlife, U.S. Fish and<br>Wildlife Service, or NOAA Fisheries? |                                             |                                                                |                                    |              |
| b) Have a substantial adverse effect on any<br>riparian habitat or other sensitive natural<br>community identified in local or regional plans,<br>policies, regulations or by the California<br>Department of Fish and Wildlife or U.S. Fish<br>and Wildlife Service?                                                                                   |                                             |                                                                |                                    | $\square$    |
| c) Have a substantial adverse effect on state or<br>federally protected wetlands (including, but not<br>limited to, marsh, vernal pool, coastal, etc.)<br>through direct removal, filling, hydrological<br>interruption, or other means?                                                                                                                |                                             |                                                                |                                    | $\boxtimes$  |
| d) Interfere substantially with the movement of<br>any native resident or migratory fish or wildlife<br>species or with established native resident or<br>migratory wildlife corridors, or impede the use of<br>native wildlife nursery sites?                                                                                                          |                                             |                                                                |                                    | $\boxtimes$  |
| e) Conflict with any local policies or ordinances<br>protecting biological resources, such as a tree<br>preservation policy or ordinance?                                                                                                                                                                                                               |                                             |                                                                |                                    | $\boxtimes$  |
| f) Conflict with the provisions of an adopted<br>Habitat Conservation Plan, Natural Community<br>Conservation Plan, or other approved local,<br>regional, or state habitat conservation plan?                                                                                                                                                           |                                             |                                                                |                                    | $\square$    |

### **CEQA Significance Determinations for Biological Resources**

### a) Less Than Significant Impact

Based on habitat requirements and the results of the biological survey, there is potential for one special-status plant species to be in the Biological Study Area: the southern tarplant (*Centromadia parryi ssp. australis*).

# Chapter 3 – California Environmental Quality Act (CEQA) Evaluation

Based on the existing habitat in the Biological Study Area, nine special-status bats have potential to be in the Biological Study Area, including the cave myotis (*Myotis velifer*), big free-tailed bat (*Nyctinomops macrotis*), hoary bat (*Lasiurus cinereus*), pallid bat (*Antrozous pallidus*), pocketed free-tailed bat (*Nyctinomops femorosaccus*), western mastiff bat (*Eumops perotis californicus*), western red bat (*Lasiurus blossevillii*), Yuma myotis (*Myotis yumanensis*), and western yellow bat (*Lasiurus xanthinus*). Suitable habitat in the Biological Study Area that could support these species includes bridges, buildings, and trees.

During the biological survey, multiple bird species were observed foraging or flying over the Biological Study Area, including the black phoebe (*Sayornis nigricans*), red-tailed hawk (*Buteo jamaicensis*), American crow (*Corvus brachyrhynchos*), and yellow-rumped warbler (*Setophaga coronata*). In addition, cliff swallow nests were observed on a bridge column.

As discussed in the Plant Species and Animal Species sections in Chapter 2, avoidance and minimization measures will be implemented to minimize impacts on special-status plant and animal species. In addition, Project improvements would be completed on existing paved roadways, or on vegetated slopes adjacent to the freeway. Because of the developed nature of the Project Area, the Project would not have a substantial adverse effect, either directly or through habitat modifications, on any special-status species. Impacts will be less than significant. No mitigation is required.

### b, c, d, e, f) No Impact

The Project will not affect any riparian habitat or other sensitive natural community, federally protected wetlands, migratory wildlife corridors, or the movement of any native resident or migratory fish or wildlife species. The Project will not impede the use of native wildlife nursery sites. The Project will not conflict with any local policies or ordinances protecting biological resources. The Project will not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

### CULTURAL RESOURCES

| Would the Project:                                                                                            | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?      |                                             |                                                                |                                    | $\boxtimes$  |
| b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? |                                             |                                                                |                                    | $\boxtimes$  |
| c) Disturb any human remains, including those interred outside of dedicated cemeteries?                       |                                             |                                                                |                                    | $\square$    |

### **CEQA Significance Determinations for Cultural Resources**

### a, b, c) <u>No Impact</u>

The Project would not cause a substantial adverse change in the significance in historical or archaeological resources, because these resources have not been identified in the Project Area. According to the Historic Property Survey Report, the anticipated effects finding is No Historic Properties Affected. The results of the archaeological sensitivity analysis indicate that the potential for encountering buried archaeological resources is low. Human remains have not been previously identified within the Project Area.

The Project would be completed within Caltrans or City right of way, and includes improvements to an existing transportation facility. No Project activities will occur in the Los Angeles River itself. Project improvements would be completed on existing paved roadways, or on vegetated slopes adjacent to the freeway, a portion of which likely is fill.

The following Native American Tribes were contacted between May 8, 2020 and October 2, 2020:

- Gabrieleño Band of Mission Indians-Kizh Nation- Andrew Salas
- Gabrieleno/Tongva San Gabriel Band of Mission Indians- Anthony Morales
- Gabrielino/Tongva Nation- Sandonne Goad
- Gabrielino Tongva Indians of California Tribal Council- Robert Dorame
- Gabrielino-Tongva Tribe- Charles Alvarez

During the course of Native American consultation for the undertaking, the Gabrieleño Band of Mission Indians-Kizh Nation and the Gabrieleno/Tongva San Gabriel Band of Mission Indians identified the Project location as sensitive for buried cultural resources and, thus, both parties requested archaeological and Native American monitoring. The results of the

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background research, archaeological sensitivity analysis, and field survey indicate that the Project has a low potential to affect cultural resources. These findings have been shared with the concerned tribes, but they remain concerned about ground disturbance in the Project Area. For this reason, and to confirm the conclusions of this study, a limited archaeological and Native American monitoring program will be implemented during project construction. An archaeological and Native American monitoring plan is under preparation and will outline conditions and procedures for monitoring that will ensure Native American concerns are satisfactorily resolved with regard to degree of disturbance to the Project location and potential to encounter buried archaeological deposits. The monitoring plan will be reviewed by the Native American tribes and implemented during Project construction.

The following Project features would be incorporated into the Project: If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find. If human remains are discovered, California Health and Safety Code (H&SC) Section 7050.5 states that further disturbances and activities shall stop in any area or nearby area suspected to overlie remains, and the County Coroner contacted. If the remains are thought by the coroner to be Native American, the coroner will notify the Native American Heritage Commission (NAHC), who, pursuant to PRC Section 5097.98, will then notify the Most Likely Descendent (MLD). At this time, the person who discovered the remains will contact Claudia Harbert, Caltrans District 7 Cultural Resources Environmental Branch Chief, so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of PRC 5097.98 are to be followed as applicable.

### ENERGY

| Would the Project:                                                                                                                                                                         | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Result in potentially significant environmental<br>impact due to wasteful, inefficient, or<br>unnecessary consumption of energy resources,<br>during project construction or operation? |                                             |                                                                |                                    | $\boxtimes$  |
| b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?                                                                                              |                                             |                                                                |                                    | $\square$    |

### **CEQA Significance Determinations for Energy**

#### a, b) No Impact

The Project would not result in the wasteful, inefficient, or unnecessary consumption of energy resources, or conflict with or obstruct a state or local plan for renewable energy or energy efficiency. The Project would result in increased operational efficiencies and improved vehicle operations that would be expected to reduce energy consumption. In addition, maintenance activities associated with the Project are not anticipated to increase beyond existing conditions. Furthermore, Project construction would primarily consume diesel and gasoline through operation of heavy-duty construction equipment, material deliveries, and debris hauling. However, this represents a small demand on local and regional fuel supplies that would be easily accommodated, and this demand would cease once construction is complete. In addition, construction design features would help conserve energy, such as the use of recycled materials where feasible.
## **GEOLOGY AND SOILS**

| Would the Project:                                                                                                                                                                                                                                                                                                                 | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Directly or indirectly cause potential<br>substantial adverse effects, including the risk of<br>loss, injury, or death involving:                                                                                                                                                                                               |                                             | <u> </u>                                                       |                                    |              |
| <ul> <li>i) Rupture of a known earthquake fault, as<br/>delineated on the most recent Alquist-Priolo<br/>Earthquake Fault Zoning Map issued by the<br/>State Geologist for the area or based on<br/>other substantial evidence of a known fault?<br/>Refer to Division of Mines and Geology<br/>Special Publication 42.</li> </ul> |                                             |                                                                |                                    | $\boxtimes$  |
| ii) Strong seismic ground shaking?                                                                                                                                                                                                                                                                                                 |                                             |                                                                | $\square$                          |              |
| iii) Seismic-related ground failure, including liquefaction?                                                                                                                                                                                                                                                                       |                                             |                                                                |                                    |              |
| iv) Landslides?                                                                                                                                                                                                                                                                                                                    |                                             |                                                                |                                    | $\square$    |
| b) Result in substantial soil erosion or the loss of topsoil?                                                                                                                                                                                                                                                                      |                                             |                                                                | $\square$                          |              |
| c) Be located on a geologic unit or soil that is<br>unstable, or that would become unstable as a<br>result of the Project, and potentially result in on-<br>or off-site landslide, lateral spreading,<br>subsidence, liquefaction or collapse?                                                                                     |                                             |                                                                |                                    |              |
| d) Be located on expansive soil, as defined in<br>Table 18-1-B of the Uniform Building Code<br>(1994), creating substantial direct or indirect<br>risks to life or property?                                                                                                                                                       |                                             |                                                                |                                    |              |
| e) Have soils incapable of adequately<br>supporting the use of septic tanks or alternative<br>waste water disposal systems where sewers<br>are not available for the disposal of waste<br>water?                                                                                                                                   |                                             |                                                                |                                    |              |
| <ul> <li>f) Directly or indirectly destroy a unique<br/>paleontological resource or site or unique<br/>geologic feature?</li> </ul>                                                                                                                                                                                                |                                             | $\square$                                                      |                                    |              |

## **CEQA Significance Determinations for Geology and Soils**

## a-i) <u>No Impact</u>

The Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving rupture of a known earthquake fault, because the Project is not located in an Alquist-Priolo Earthquake Fault Zone.

#### a-ii, a-iii) Less Than Significant Impact

This Project is located within a seismically active region as a result of being located near the active margin between the North American and Pacific tectonic plates. The principal source of seismic activity is movement along the northwest-trending regional faults such as the San Andreas, San Jacinto, Newport-Inglewood, and Whittier-Elsinore fault zones. The Project Area is also located within a Liquefaction Potential Seismic Hazard Zone. Based on review of the available subsurface data, shallow soils underlying the Project Area predominantly consist of relatively loose to medium dense silty sandy earth material, which becomes denser with increasing depth. Due to the soils' classification, the in-situ state of the soils, and the likelihood of earthquake occurrences with relatively high magnitudes, liquefaction/seismic induced settlement is expected to occur in the Project Area.

To avoid and minimize impacts, specific recommendations for earthwork, foundation design, pavement design, and hazard mitigation will be provided in the design phase of the Project. With incorporation of these design recommendations, the Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving strong seismic ground shaking and seismic-related ground failure, including liquefaction. Impacts will be less than significant. No mitigation is required.

#### a-iv) No Impact

The Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving landslides, because the Project Area is not within Landslide Seismic Hazard Zone, and the topography is relatively flat.

#### b, c, d) Less Than Significant Impact

As discussed in the Geology/Soils/Seismic/Topography section of Chapter 2, in general, the erosion potential of soils in the Project Area is expected to be minor to moderate considering the provisions for site drainage, slope planting, and other measures required by Caltrans. In order to minimize potential erosion, all finished slopes should be planted with non-water succulent plants as soon as practical after grading.

Construction of the various elements of the Project will likely result in alterations of the landform due to grading. Landform alterations may create erosional impacts to the existing terrain. The more extensive alterations will be from construction of the cuts for retaining walls and fill slopes associated with the ramp and roadway widening. Applying standard engineering techniques during design and construction to prevent erosion can reduce these impacts. Typical erosion control measures include improving drainage control and

implementing landscaping after construction. Within implementation of these design features, the Project would not result in substantial soil erosion or the loss of topsoil.

The primary geotechnical and geologic hazards associated with the Project are anticipated to be liquefaction, seismic embankment stability, and settlement. In addition, on-site soils are generally expected to have an expansivity varying from non-expansive to low-expansive potential. Based on the scope of the future work, during the design phase, samples of subgrade soils shall be collected and tested for the expansivity. In addition, specific recommendations for earthwork, foundation design, pavement design, and hazard mitigation will be provided in the design phase of the Project. With incorporation of these design recommendations, the geologic unit or soils underlying the Project Area would not become unstable as a result of the Project, and would not result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse. In addition, with implementation of design recommendations, the Project would not create substantial direct or indirect risks to life or property as a result of expansive soils. Impacts will be less than significant. No mitigation is required.

## e) <u>No Impact</u>

The Project would not require the use of septic tanks or alternative waste water disposal systems because sewers are available for the disposal of waste water.

## f) Less Than Significant with Mitigation Incorporated

The Project has the potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. As discussed in the Paleontology section in Chapter 2, portions of the Project improvements are located in areas identified as having high paleontological sensitivity at greater than 5 feet below the original ground surface. Project components that would extend to these depths include excavation of piles to 100 feet bgs for the proposed bridge widenings, and potentially for wall footings or overhead sign footings. In addition, two fossil localities are documented nearby in sediments similar to those underlying the Project. This is a potentially significant impact due to the previously documented nearby fossil localities and high paleontological sensitivity of underlying sediments at depth. With implementation of the mitigation measures below, the impacts to paleontological resources would be less than significant.

- **MM-PALEO-1** A Paleontological Mitigation Plan, following the Caltrans SER, Chapter 8, will be prepared by a Principal Paleontologist.
- **MM-PALEO-2** The Principal Paleontologist will attend the pre grade conference. At this meeting, the Paleontologist will explain the likelihood for encountering paleontological resources, what resources may be discovered, and the methods of recovery that will be employed.
- **MM-PALEO-3** During construction excavation, a qualified Paleontological Monitor shall be present on a full-time basis initially whenever excavation will occur within the sediments that have a high paleontological sensitivity

(greater than 5 feet below the original ground surface) and on a spotcheck basis for excavation in sediments that have low sensitivity (nonfill sediment above 5 feet bgs). Monitoring may be reduced to a parttime basis if no resources are being discovered in sediments with a high sensitivity rating (monitoring reductions, when they occur, will be determined by the qualified Principal Paleontologist).

- **MM-PALEO-4** The Monitor shall inspect fresh cuts and/or spoils piles to recover paleontological resources. The monitor shall be empowered to temporarily divert construction equipment away from the immediate area of the discovery. The monitor shall be equipped to rapidly stabilize and remove fossils to avoid prolonged delays to construction schedules. If large mammal fossils or large concentrations of fossils are encountered, Caltrans will consider using heavy equipment on site to assist in the removal and collection of large materials. Localized concentrations of small (or micro-) vertebrates may be found in all native sediments. Therefore, it is recommended that these sediments occasionally be spot-screened on site through 1/8 - to 1/20-inch mesh screens to determine whether microfossils are present. If microfossils are encountered, sediment samples (up to 6,000 pounds) shall be collected and processed through 1/20-inch mesh screens to recover additional fossils.
- **MM-PALEO-5** Recovered specimens shall be prepared to the point of identification and permanent preservation. This includes the sorting of any washed mass samples to recover small invertebrate and vertebrate fossils, the removal of surplus sediment from around larger specimens to reduce the volume of storage for the repository and storage cost, and the addition of approved chemical hardeners/stabilizers to fragile specimens.
- **MM-PALEO-6** Specimens shall be identified to the lowest taxonomic level possible and curated into an institutional repository with retrievable storage. The repository institutions usually charge a one-time fee based on volume, so removing surplus sediment is important. The repository institution may be a local museum or university with a curator who can retrieve the specimens on request. Caltrans requires that a draft curation agreement be in place with an approved curation facility prior to the initiation of any paleontological monitoring or mitigation activities.
- **MM-PALEO-7** A Paleontological Mitigation Report documenting completion of the Paleontological Mitigation Plan for the Lead Agency (Caltrans) will be prepared and submitted.

#### GREENHOUSE GAS EMISSIONS

| Would the Project:                                                                                                                | Significant<br>and<br>Unavoidable<br>Impact | Less than<br>Significant<br>with<br>Mitigation | Less than<br>Significant<br>Impact | No Impact |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------|------------------------------------|-----------|
| Would the project:                                                                                                                |                                             |                                                |                                    |           |
| a) Generate greenhouse gas emissions,<br>either directly or indirectly, that may have a<br>significant impact on the environment? |                                             |                                                | $\boxtimes$                        |           |
| b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?  |                                             |                                                | $\boxtimes$                        |           |

#### **CEQA Significance Determinations for Greenhouse Gas Emissions**

#### a, b) Less Than Significant Impact

As discussed in the Climate Change section of this chapter, the Project would introduce operational improvements that would reduce vehicle delays. No increase in operational greenhouse gas (GHG) emissions is expected. Construction activities would require material processing, on-site construction equipment, and traffic delays that would generate approximately 1,647 metric tons of carbon dioxide equivalent (CO<sub>2</sub>e) over the 24-month construction period (see Section 3.3 for additional information). Project construction would be required to comply with all standard air pollution control rules, regulations, ordinances, and statutes, including Caltrans Standard Specifications Section 7-1.02A and 7-1.02C, Emissions Reduction, and Section 14-9.02, Air Pollution Control during construction. In addition, other statewide efforts and project-level GHG reduction strategies would be implemented (see **PF-AQ-1**, **PF-AQ-5**, **PF-AQ-8**, and **PF-AQ-12** in Section 3.3.4). Therefore, the Project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHG. Impacts will be less than significant. No mitigation is required.

## HAZARDS AND HAZARDOUS MATERIALS

| Would the Project:                                                                                                                                                                                                                                                                                 | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Create a significant hazard to the public or<br>the environment through the routine transport,<br>use, or disposal of hazardous materials?                                                                                                                                                      |                                             |                                                                |                                    |              |
| b) Create a significant hazard to the public or<br>the environment through reasonably<br>foreseeable upset and accident conditions<br>involving the release of hazardous materials<br>into the environment?                                                                                        |                                             |                                                                |                                    |              |
| c) Emit hazardous emissions or handle<br>hazardous or acutely hazardous materials,<br>substances, or waste within one-quarter mile of<br>an existing or proposed school?                                                                                                                           |                                             |                                                                | $\boxtimes$                        |              |
| d) Be located on a site which is included on a<br>list of hazardous materials sites compiled<br>pursuant to Government Code Section 65962.5<br>and, as a result, would it create a significant<br>hazard to the public or the environment?                                                         |                                             |                                                                |                                    | $\boxtimes$  |
| e) For a project located within an airport land<br>use plan or, where such a plan has not been<br>adopted, within two miles of a public airport or<br>public use airport, would the Project result in a<br>safety hazard or excessive noise for people<br>residing or working in the Project area? |                                             |                                                                |                                    | $\boxtimes$  |
| f) Impair implementation of or physically<br>interfere with an adopted emergency response<br>plan or emergency evacuation plan?                                                                                                                                                                    |                                             |                                                                | $\square$                          |              |
| g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?                                                                                                                                                            |                                             |                                                                |                                    |              |

## **CEQA Significance Determinations for Hazards and Hazardous Materials**

#### a, b, c) Less Than Significant Impact

During Project construction, there is a potential to encounter hazardous materials in soils and existing roads and structures, such as aerially deposited lead (ADL), asbestoscontaining materials (ACM), lead-based paint (LBP), and treated wood waste (TWW). In addition, hazardous materials (e.g. solvents, paints, fuels) are anticipated to be used during construction. Schools within 0.25 mile of the Project Area include Grant Elementary, Saint John's School, Jordan High School, Hamilton Middle School, and McKinley Elementary.

Hazardous materials and waste would be handled in accordance with all applicable federal, state, and local regulations. Therefore, with compliance with standard regulations, the Project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials; create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment; or emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. Impacts will be less than significant. No mitigation is required.

#### d, e) <u>No Impact</u>

Project improvements would be completed within Caltrans and City right of way, and would not be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. In addition, the Project is not located within an airport land use plan area or within two miles of a public airport or public use airport.

#### f) Less Than Significant Impact

During construction, the Project could include short-term lane closures and modifications to existing facilities. The temporary closures and detours could have short-term impacts on emergency response and evacuation within the Project Area. However, emergency responders within the Project Area would be notified in advance about the detour routes and the planned closures. Therefore, the Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Impacts will be less than significant. No mitigation is required.

#### g) No Impact

Because of the developed nature of the Project Area, the Project Area is not susceptible to wildland fires, and would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires.

#### HYDROLOGY AND WATER QUALITY

| Would the Project:                                                                                                                                                                                                                 | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Violate any water quality standards or waste<br>discharge requirements or otherwise<br>substantially degrade surface or ground water<br>quality?                                                                                |                                             |                                                                | $\square$                          |              |
| b) Substantially decrease groundwater supplies<br>or interfere substantially with groundwater<br>recharge such that the Project may impede<br>sustainable groundwater management of the<br>basin?                                  |                                             |                                                                |                                    | $\square$    |
| c) Substantially alter the existing drainage<br>pattern of the site or area, including through the<br>alteration of the course of a stream or river or<br>through the addition of impervious surfaces, in a<br>manner which would: |                                             |                                                                |                                    |              |
| (i) result in substantial erosion or siltation on- or off-site;                                                                                                                                                                    |                                             |                                                                | $\square$                          |              |
| (ii) substantially increase the rate or amount<br>of surface runoff in a manner which would<br>result in flooding on- or offsite;                                                                                                  |                                             |                                                                | $\boxtimes$                        |              |
| (iii) create or contribute runoff water which<br>would exceed the capacity of existing or<br>planned stormwater drainage systems or<br>provide substantial additional sources of<br>polluted runoff; or                            |                                             |                                                                | $\boxtimes$                        |              |
| (iv) impede or redirect flood flows?                                                                                                                                                                                               |                                             |                                                                |                                    | $\square$    |
| d) In flood hazard, tsunami, or seiche zones,<br>risk release of pollutants due to project<br>inundation?                                                                                                                          |                                             |                                                                |                                    | $\square$    |
| e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?                                                                                                            |                                             |                                                                |                                    | $\square$    |

## **CEQA Significance Determinations for Hydrology and Water Quality**

#### a) Less Than Significant Impact

Construction activities have the potential to affect water quality through the transport of pollutants and soil disturbance. Pollutants of concern during construction are trash, petroleum products, concrete, and chemicals. Construction activities could include grading, roadway widening, freeway ramp modifications, and construction of new and modified

drainage ditches, berms, and swales, which have the potential to disturb soil in the Project Area.

In accordance with the National Pollutant Discharge Elimination System Construction General Permit, a Storm Water Pollution Prevention Plan would be required. The Storm Water Pollution Prevention Plan would include the development of a Construction Site Monitoring Program, including procedures and methods related to visual monitoring, sampling and analysis plans for pollutants, sediment, turbidity, and pH. In addition, the Storm Water Pollution Prevention Plan would include temporary erosion and sediment control measures.

The Project Area includes existing stormwater Best Management Practices adjacent to the roadway, which include gross solids removal devices with screens that prevent solids larger than the screen opening from passing through. The existing gross solids removal devices would be either maintained in place or replaced with Project implementation.

The Project would result in a net increase in impervious surface area as a result of the added auxiliary lane. The additional impervious surface area could increase the volume and velocity of storm water runoff, as well as the amount of pollutants traveling into the drainage system and into downstream receiving waters. However, treatment Best Management Practices would be maintained under the Build Alternative to address these pollutants.

With implementation of standard measures included in the Storm Water Pollution Prevention Plan and treatment Best Management Practices, the Project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. Impacts will be less than significant. No mitigation is required.

## b) No Impact

The Project does not require the use of groundwater, and would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin.

## c-i, c-ii, c-iii) Less Than Significant Impact

With implementation of standard measures included in the Storm Water Pollution Prevention Plan and treatment Best Management Practices (see Response a) above), the Project would not result in substantial erosion or siltation on- or off-site; substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; or create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Impacts will be less than significant. No mitigation is required.

## c-iv, d, e) No Impact

The Project would not alter the existing drainage facilities in the Project Area, and is not located in a flood hazard, tsunami, or seiche zone. Therefore, the Project would not impede or redirect flood flows, or risk release of pollutants due to Project inundation.

#### LAND USE AND PLANNING

| Would the Project:                                                                                                                                                                              | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Physically divide an established community?                                                                                                                                                  |                                             |                                                                |                                    | $\boxtimes$  |
| b) Cause a significant environmental impact<br>due to a conflict with any land use plan, policy,<br>or regulation adopted for the purpose of<br>avoiding or mitigating an environmental effect? |                                             |                                                                |                                    | $\boxtimes$  |

#### **CEQA Significance Determinations for Land Use and Planning**

#### a, b) No Impact

The Project would not physically divide an established community, or conflict with any land use plans, policies, regulations, because it would be completed within Caltrans or City right of way within existing transportation facilities.

#### MINERAL RESOURCES

| Would the Project:                                                                                                                                                              | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Result in the loss of availability of a known<br>mineral resource that would be of value to the<br>region and the residents of the state?                                    |                                             |                                                                |                                    | $\boxtimes$  |
| b) Result in the loss of availability of a locally-<br>important mineral resource recovery site<br>delineated on a local general plan, specific plan<br>or other land use plan? |                                             |                                                                |                                    | $\boxtimes$  |

#### **CEQA Significance Determinations for Mineral Resources**

#### a, b) <u>No Impact</u>

The Project would not result in the loss of known mineral resources or a locally-important mineral resource recovery site because the Project Area does not include any mineral resources. Oil and gas well locations were obtained from the California Division of Oil, Gas, and Geothermal Resources (DOGGR). There were no wells within 500 feet of the Project Area.

## NOISE

| Would the Project result in:                                                                                                                                                                                                                                                                                                | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Generation of a substantial temporary or<br>permanent increase in ambient noise levels in<br>the vicinity of the Project in excess of standards<br>established in the local general plan or noise<br>ordinance, or applicable standards of other<br>agencies?                                                            |                                             |                                                                |                                    |              |
| b) Generation of excessive groundborne vibration or groundborne noise levels?                                                                                                                                                                                                                                               |                                             |                                                                | $\square$                          |              |
| c) For a project located within the vicinity of a<br>private airstrip or an airport land use plan or,<br>where such a plan has not been adopted, within<br>two miles of a public airport or public use<br>airport, would the Project expose people<br>residing or working in the Project area to<br>excessive noise levels? |                                             |                                                                |                                    | $\boxtimes$  |

## **CEQA Significance Determinations for Noise**

## a) Less Than Significant with Mitigation Incorporated

Noise-sensitive receptors in the vicinity of the Project Area include residences. The existing noise level at residential receptors in the Project Area ranges from 56 to 72 a-weighted decibels (dBA) equivalent continuous sound level ( $L_{eq}$ ). Existing ambient noise levels are largely influenced by vehicle traffic on State Route 91 and local arterial streets.

Based on Caltrans' Traffic Noise Analysis Protocol for New Highway Construction, Reconstruction, and Retrofit Barrier Projects (California Department of Transportation, 2011), 3 dBA differences in noise levels are generally perceptible to the human ear. A substantial noise increase occurs when a project's predicted worst-hour design-year noise level exceeds the existing worst-hour noise level by 12 dBA or more. Implementation of noise barriers will reduce noise levels by 13 dBA.

Based on the Noise Study Report, design-year future worst-hour noise levels would range from 60 to 72 dBA  $L_{eq}(h)$  under the Build Alternative. The results also indicate an up to 13 dBA increase in noise between existing conditions and the design-year. However, with implementation of the mitigation measure **MM-NOI-1** below, impacts related to noise during Project operation would be less than significant:

**MM-NOI-1** Based on the studies completed to date, the Project would incorporate Barrier BA-4 at PM LA R12.149 to LA R13.073, with a length of 4,864 feet and a height of 14 to 16 feet, consistent with existing noise barrier EXB-4 that has a height of 14 feet. These measures may change based on input received from the public. The final decision on noise abatement will be made upon completion of the Project design.

As discussed in Section 2.2.6, construction activities would generate short-term increases in noise and vibration levels. The impact would be less than significant. The following avoidance and minimization measures will also be implemented to reduce impacts related to noise during construction:

- **AVM-NOI-1** Demolition of the existing noise barrier and construction of the proposed noise barrier on top of the retaining wall would be conducted in four segments along the Project Area to minimize traffic noise impacts on nearby residences. Construction within each segment would include demolishing the existing noise barrier, constructing the retaining wall, and then constructing the proposed noise barrier. When a certain section of noise barrier is removed, the work immediately following the demolition would be the construction of the new proposed retaining wall and proposed noise barrier.
- **AVM-NOI-2** Though construction noise and vibration would be temporary and sporadic and would not present any long-term impacts, the following practices would reduce noise and vibration level increases produced by Project construction equipment at nearby noise-sensitive residential land uses:
  - Construction activities shall comply with the Long Beach Municipal Code, which states that construction activities shall only occur on weekdays from 7:00 a.am. to 7:00 p.m. and Saturdays from 9:00 a.m. to 6:00 p.m.,
  - Property owners and occupants located within 200 feet of the Project boundary shall be sent a notice, at least 15 days prior to commencement of construction of each phase, regarding the construction schedule of the proposed project. A sign, legible at 50 feet shall also be posted at the Project construction site. All notices and signs shall be reviewed and approved by Caltrans, prior to mailing or posting and shall indicate the dates and duration of construction activities, as well as provide a contact name and a telephone number where residents can inquire about the construction process and register complaints.
  - Construction noise reduction methods shall be implemented, such as:
    - $\circ$  Replacing worn, loose, or unbalanced machine parts that cause vibration,

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- o Keeping machine parts well lubricated to reduce friction,
- o Erecting acoustical enclosures and barriers around generators,
- Installing sound absorbing material and vibration isolation systems on hand tools,
- Turning off equipment when not in use
- Placing stationary construction equipment such that emitted noise is directed away from sensitive noise receivers , and
- Using equipment and tools with minimal noise and vibration, when feasible.
- **AVM-NOI-3** The following procedures shall be implemented to minimize the potential for annoyance from construction vibration:
  - Use cast-in-drilled-hole piles or sonic or vibratory pile drivers, where feasible, to avoid the use of impact-type pile drivers near residences.
  - When there is a possibility of human annoyance from pile driving, conduct activities during weekday daytime hours when residents may be away from their homes.
  - Avoid high vibration–generating activities during the same time in proximity to each other to the maximum extent practicable.
  - Contact residents prior to pile driving to notify them that this activity will be occurring.
- **AVM-NOI-4** During final design, use of rubberized asphalt on the re-constructed portion of the Atlantic Avenue on-ramp and Cherry Avenue off-ramp would be explored to as a long-term noise reduction method.

## b) Less Than Significant Impact

During construction, the Project would not require any pile driving activities for bridge widening, as cast-in-drilled-hole piles would be used for bridge construction; however, pile driving may be required for shoring during construction. In addition, the Project would require the use of loaded trucks and bulldozers. As described in Section 2.2.6, Noise and Vibration, a loaded truck, a large bulldozer, and pile driving would generate a vibration level of 0.076 peak particle velocity (PPV) (inches per second [in/sec]) (86 vibration velocity decibels [VdB]), 0.089 PPV (in/sec) (87 VdB), and 0.644 PPV (in/sec) (104 VdB), respectively, when measured at 25 feet. Vibration associated with construction activities, specifically, pile driving, could cause annoyance impacts, depending on the distance from vibration sensitive receptors, and the impact would be less than significant. Avoidance and

minimization measures would also be implemented, such as using cast-in-drilled-hole piles or sonic or vibratory pile drivers, where feasible, to avoid the use of impact-type pile drivers near residences, conducting activities during weekday daytime hours when residents may be away from their homes when there is a possibility of human annoyance from pile driving, avoiding high vibration–generating activities during the same time in proximity to each other to the maximum extent practicable, and contacting residents prior to pile driving to notify them that this activity will be occurring.

During Project operation, on-road vehicles are typically not considered to be significant sources of ground vibration that would cause structural damage or increased levels of annoyance to nearby land uses. Therefore, the Project would not generate excessive groundborne vibration or groundborne noise levels.

#### c) No Impact

The Project is not located within the vicinity of a private airstrip or an airport land use plan, or within two miles of a public airport or public use airport.

## POPULATION AND HOUSING

| Would the Project:                                                                                                                                                                                                              | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Induce substantial unplanned population<br>growth in an area, either directly (for example,<br>by proposing new homes and businesses) or<br>indirectly (for example, through extension of<br>roads or other infrastructure)? |                                             |                                                                |                                    | $\boxtimes$  |
| b) Displace substantial numbers of existing<br>people or housing, necessitating the<br>construction of replacement housing<br>elsewhere?                                                                                        |                                             |                                                                |                                    | $\boxtimes$  |

#### **CEQA Significance Determinations for Population and Housing**

#### a, b) <u>No Impact</u>

The Project would not result in substantial unplanned population growth or, displace substantial numbers of existing people or housing, because the Project would be constructed within Caltrans and City right of way, and would include operational improvements to an existing transportation facility. The Project does not propose new homes or businesses, would not extend any roads or other infrastructure, and would not displace any people our housing.

#### PUBLIC SERVICES

| a) Would the Project result in substantial<br>adverse physical impacts associated with the<br>provision of new or physically altered<br>governmental facilities, need for new or<br>physically altered governmental facilities, the<br>construction of which could cause significant<br>environmental impacts, in order to maintain<br>acceptable service ratios, response times or<br>other performance objectives for any of the<br>public services: | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| Fire protection?                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |                                                                |                                    | $\square$    |
| Police protection?                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |                                                                |                                    | $\square$    |
| Schools?                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |                                                                |                                    | $\square$    |
| Parks?                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             |                                                                |                                    | $\square$    |
| Other public facilities?                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |                                                                |                                    | $\square$    |

#### **CEQA Significance Determinations for Public Services**

#### a) <u>No Impact</u>

The Project would not result in substantial adverse physical impacts associated with the provision of, or need for, new or physically altered governmental facilities, because the Project would not substantially affect acceptable service ratios, response times, or other performance objectives for these public services; and would therefore not require any construction of these facilities that could result in significant environmental impacts. The Project would be constructed within Caltrans and City right of way, and would include operational improvements to an existing transportation facility. No fire, police, school, park, or public facilities would be displaced by the Project, nor would the Project result in population growth that would affect service ratios, response times, or other performance objectives for these services. Emergency service providers may temporarily need to use alternate routes during Project construction; however, these impacts would cease following construction, and would not require the construction of new or physically altered governmental facilities that could result in significant environmental impacts.

## RECREATION

|                                                                                                                                                                                                                            | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Would the Project increase the use of<br>existing neighborhood and regional parks or<br>other recreational facilities such that substantial<br>physical deterioration of the facility would occur<br>or be accelerated? |                                             |                                                                |                                    | $\boxtimes$  |
| b) Does the Project include recreational<br>facilities or require the construction or<br>expansion of recreational facilities which might<br>have an adverse physical effect on the<br>environment?                        |                                             |                                                                |                                    | $\boxtimes$  |

## **CEQA Significance Determinations for Recreation**

#### a, b) <u>No Impact</u>

The Project would not increase the use of, or include or require the construction or expansion of, parks or recreational facilities; and would therefore not result in the deterioration of these facilities, or have adverse physical effects on the environment associated with the construction of these facilities. The Project would be constructed within Caltrans and City right of way, and would include operational improvements to an existing transportation facility. A proposed greenbelt, the Hamilton Loop (also known as the State Route 91 Embankment Greenbelt), is planned in Caltrans right of way within the Project Area. Coordination is being conducted with the City of Long Beach so that the Project will not preclude the proposed greenbelt. However, the Project would not displace any parks or recreational facilities; nor would the Project result in population growth that would result in the increased use and deterioration of these facilities, or include or require the construction of these facilities that could have an adverse physical effect on the environment.

#### TRANSPORTATION

| Would the Project:                                                                                                                                                | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Conflict with a program, plan, ordinance, or<br>policy addressing the circulation system,<br>including transit, roadway, bicycle and<br>pedestrian facilities? |                                             |                                                                |                                    | $\boxtimes$  |
| b) Would the Project conflict or be inconsistent<br>with CEQA Guidelines section 15064.3,<br>subdivision (b)?                                                     |                                             |                                                                |                                    | $\boxtimes$  |
| c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?  |                                             |                                                                |                                    | $\boxtimes$  |
| d) Result in inadequate emergency access?                                                                                                                         |                                             |                                                                | $\boxtimes$                        |              |

#### **CEQA Significance Determinations for Transportation**

#### a) <u>No Impact</u>

The Project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. The Project includes transportation improvements that would enhance operational efficiencies along an existing transportation facility, consistent with regional and local transportation programs and plans. In addition, a proposed greenbelt, the Hamilton Loop (also known as the State Route 91 Embankment Greenbelt), is planned in Caltrans right of way within the Project Area. Coordination is being conducted with the City of Long Beach so that the Project will not preclude the proposed greenbelt.

#### b) <u>No Impact</u>

Senate Bill 743 affects major changes in California Environmental Quality Act (CEQA) analysis for capacity increasing projects on the State Highway System (SHS). CEQA 15064.3 is a new regulation for determining the significance of transportation impacts, replacing level of service with vehicle miles traveled (VMT), approved on December 28, 2018 as summarized below:

Vehicle miles traveled is generally the most appropriate measure for transportation impacts. Transportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. Certain projects types, primarily those which are not capacity increasing, are presumed

## Chapter 3 – California Environmental Quality Act (CEQA) Evaluation

to result in a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. Beginning on July 1, 2020, the provisions of this section shall apply statewide.

Projects initiated on or after December 28, 2018 which have reached or will reach Caltrans' Milestone 020 ("Begin Environmental") before September 15, 2020, will be evaluated by Caltrans in consultation with project sponsors on a case-by-case basis to determine if the use of a VMT-based transportation impact significance determination in the draft environmental document is warranted.

The intent of Senate Bill 743 is to measure potential transportation impacts for roadway capacity projects utilizing VMT as a metric. Although the Caltrans' Milestone 020 of the Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project was on April 2, 2019, a VMT-based transportation impact significance determination is not warranted because:

The primary purpose of the addition of an auxiliary lane is to improve safety, traffic operations, and not to increase capacity. As discussed in Section 1.3 Purpose and Need, both the Fatal plus Injury and the Total Actual Accident Rates are greater than the statewide average accident rates for five of the ten ramp segments analyzed within the Study Area. In addition, two of the ten ramp segments show Total Actual Accident Rates greater than the statewide average total accident rates. The short weaving distance along Eastbound State Route 91 between the closely spaced interchanges of the I-710 to Eastbound State Route 91 connectors, Atlantic Avenue, and Cherry Avenue impacts mainline congestion. The addition of a 0.86-mile-long auxiliary lane is to enhance operational safety conditions on the Eastbound State Route 91 mainline, reduce congestion, and improve freeway operations (both mainline and ramps). Caltrans Final Implementation Timing Memo, Attachment A, explores the Project types not likely to lead to a substantial increase in vehicle travel. The Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project is one of the Project types as described:

Addition of an auxiliary lane of less than one mile in length designed to improve roadway safety.

• The Project is not increasing capacity.

#### c) <u>No Impact</u>

The Project would be designed, constructed, and operated consistent with Caltrans Highway Design Manual and other applicable federal, state, and local standards and specifications for roadways, retaining walls, and pedestrian access improvements. The Project does not include any additional access or roadway improvements that would substantially increase hazards due to geometric design features or incompatible uses.

#### d) Less Than Significant Impact

During Project construction, emergency access may be temporarily affected by detours associated with temporary freeway mainline and ramp closures, and local street closures, which would require emergency service providers to use different routes. To maintain emergency access and safety during construction, a Traffic Management Plan will be prepared in coordination with emergency service providers and local partners for the Project during final design. The Traffic Management Plan will address the short-term traffic and transportation impacts during construction of the Project, as applicable. Advanced signage and detours will be provided to allow motorists to avoid work zones by directing the traffic onto detour routes due to roadway or ramp closures. Therefore, the Project would not result in inadequate emergency access. Impacts will be less than significant. No mitigation is required.

## TRIBAL CULTURAL RESOURCES

| Would the Project cause a substantial adverse<br>change in the significance of a tribal cultural<br>resource, defined in Public Resources Code<br>section 21074 as either a site, feature, place,<br>cultural landscape that is geographically<br>defined in terms of the size and scope of the<br>landscape, sacred place, or object with cultural<br>value to a California Native American tribe, and<br>that is:                             | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Listed or eligible for listing in the California<br>Register of Historical Resources, or in a local<br>register of historical resources as defined in<br>Public Resources Code section 5020.1(k), or                                                                                                                                                                                                                                         |                                             |                                                                |                                    | $\square$    |
| b) A resource determined by the lead agency, in<br>its discretion and supported by substantial<br>evidence, to be significant pursuant to criteria<br>set forth in subdivision (c) of Public Resources<br>Code Section 5024.1. In applying the criteria set<br>forth in subdivision (c) of Public Resource Code<br>Section 5024.1, the lead agency shall consider<br>the significance of the resource to a California<br>Native American tribe. |                                             |                                                                |                                    |              |

## **CEQA Significance Determinations for Tribal Cultural Resources**

#### a, b) No Impact

Native American consultation is described in Chapter 4 – Comments and Coordination, and is detailed in Appendix C of this document. No tribal cultural resources or human remains have been identified in the Project Area. No Project activities will occur in the Los Angeles River itself. The Project would be completed within Caltrans or City right of way, and includes improvements to an existing transportation facility. Project improvements would be completed on existing paved roadways, or on vegetated slopes adjacent to the freeway, a portion of which likely is fill.

During the course of Native American consultation for the undertaking, the Gabrieleño Band of Mission Indians-Kizh Nation and the Gabrieleno/Tongva San Gabriel Band of Mission Indians identified the Project location as sensitive for buried cultural resources and, thus, both parties requested archaeological and Native American monitoring. The results of the background research, archaeological sensitivity analysis, and field survey indicate that the Project has a low potential to affect cultural resources. These findings have been shared with the concerned tribes, but they remain concerned about ground disturbance in the Project Area. For this reason, and to confirm the conclusions of this study, Metro (in coordination with the Gateway Cities Council of Governments and Caltrans) will implement a limited archaeological and Native American monitoring program during project construction. An archaeological and Native American monitoring plan is under preparation and will outline

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021 conditions and procedures for monitoring that will ensure Native American concerns are satisfactorily resolved with regard to degree of disturbance to the Project location and potential to encounter buried archaeological deposits.

If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find. If human remains are discovered, the Project would comply with California H&SC Section 7050.5 and PRC Section 5097.98.

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

#### UTILITIES AND SERVICE SYSTEMS

| Would the Project:                                                                                                                                                                                                                                                                                     | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Require or result in the relocation or<br>construction of new or expanded water,<br>wastewater treatment or storm water drainage,<br>electric power, natural gas, or<br>telecommunications facilities, the construction<br>or relocation of which could cause significant<br>environmental effects? |                                             |                                                                |                                    |              |
| b) Have sufficient water supplies available to<br>serve the Project and reasonably foreseeable<br>future development during normal, dry and<br>multiple dry years?                                                                                                                                     |                                             |                                                                |                                    | $\boxtimes$  |
| c) Result in a determination by the wastewater<br>treatment provider which serves or may serve<br>the Project that it has adequate capacity to<br>serve the Project's projected demand in<br>addition to the provider's existing<br>commitments?                                                       |                                             |                                                                |                                    | $\boxtimes$  |
| d) Generate solid waste in excess of State or<br>local standards, or in excess of the capacity of<br>local infrastructure, or otherwise impair the<br>attainment of solid waste reduction goals?                                                                                                       |                                             |                                                                |                                    | $\square$    |
| e) Comply with federal, state, and local<br>management and reduction statutes and<br>regulations related to solid waste?                                                                                                                                                                               |                                             |                                                                |                                    | $\square$    |

## **CEQA Significance Determinations for Utilities and Service Systems**

#### a) Less Than Significant Impact

There are five utility lines in the Project Area, as summarized above in **Table 8**, in the Utilities/Emergency Services section of Chapter 2. Existing utilities within proposed improvements would require to be protected in place. There are no anticipated relocation of utility lines proposed as part of the Project. Because of the developed nature of the Project Area, and avoidance and minimization measures will be included in the Project, activities in proximity to utilities would not cause significant environmental effects. Impacts will be less than significant. No mitigation is required.

#### b, c, d, e) <u>No Impact</u>

The Project includes operational improvements to an existing transportation facility, and would not require additional water supplies, wastewater treatment services, or solid waste

services. The Project would create waste during construction activities. However, waste generated by the Project would not exceed state and local standards. In addition, the Project would comply with all federal, state, and local management and reduction statues and regulations related to solid waste.

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

#### WILDFIRE

| If located in or near state responsibility areas or<br>lands classified as very high fire hazard severity<br>zones, would the Project:                                                                                                                                            | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Substantially impair an adopted emergency response plan or emergency evacuation plan?                                                                                                                                                                                          |                                             |                                                                |                                    | $\boxtimes$  |
| b) Due to slope, prevailing winds, and other<br>factors, exacerbate wildfire risks, and thereby<br>expose project occupants to, pollutant<br>concentrations from a wildfire or the<br>uncontrolled spread of a wildfire?                                                          |                                             |                                                                |                                    | $\boxtimes$  |
| c) Require the installation or maintenance of<br>associated infrastructure (such as roads, fuel<br>breaks, emergency water sources, power lines<br>or other utilities) that may exacerbate fire risk or<br>that may result in temporary or ongoing impacts<br>to the environment? |                                             |                                                                |                                    | $\boxtimes$  |
| d) Expose people or structures to significant<br>risks, including downslope or downstream<br>flooding or landslides, as a result of runoff, post-<br>fire slope instability, or drainage changes?                                                                                 |                                             |                                                                |                                    | $\square$    |

## **CEQA Significance Determinations for Wildfire**

## a, b, c, d) <u>No Impact</u>

Based on the California Department of Forestry and Fire Protection's map of Fire Hazard Severity Zones in State Responsibility Areas, the Project is not located in or near a state responsibility area or land classified as very high fire hazard severity zone (CAL FIRE, 2007).

## MANDATORY FINDINGS OF SIGNIFICANCE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Significant<br>and<br>Unavoidable<br>Impact | Less Than<br>Significant<br>with<br>Mitigation<br>Incorporated | Less Than<br>Significant<br>Impact | No<br>Impact |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|------------------------------------|--------------|
| a) Does the Project have the potential to<br>substantially degrade the quality of the<br>environment, substantially reduce the habitat of<br>a fish or wildlife species, cause a fish or wildlife<br>population to drop below self-sustaining levels,<br>threaten to eliminate a plant or animal<br>community, substantially reduce the number or<br>restrict the range of a rare or endangered plant<br>or animal or eliminate important examples of<br>the major periods of California history or<br>prehistory? |                                             |                                                                |                                    |              |
| b) Does the Project have impacts that are<br>individually limited, but cumulatively<br>considerable? ("Cumulatively considerable"<br>means that the incremental effects of a project<br>are considerable when viewed in connection<br>with the effects of past projects, the effects of<br>other current projects, and the effects of<br>probable future projects)?                                                                                                                                                |                                             |                                                                | $\boxtimes$                        |              |
| c) Does the Project have environmental effects<br>which will cause substantial adverse effects on<br>human beings, either directly or indirectly?                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                                                | $\square$                          |              |

## **CEQA Significance Determinations for Mandatory Findings of Significance**

## a, b, c) Less Than Significant Impact

The Project would be completed within Caltrans or City right of way and includes improvements to an existing transportation facility. No Project activities will occur in the Los Angeles River itself. Project improvements would be completed on existing paved roadways, or on vegetated slopes adjacent to the freeway. Existing drainage facilities and utilities would be protected in place or relocated within the Project Area.

Because of the developed nature of the Project Area, and as described above in the analyses within this checklist, the Project does not have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species or cause their populations to drop below self-sustaining levels, substantially reduce the number or restrict the range of rare or endangered species, or eliminate important

examples of California history or prehistory. Impacts will be less than significant. No mitigation is required.

The Project would include improvements along a 1.4-mile segment of an existing transportation facility. No Project activities will occur in the Los Angeles River itself. Project improvements would be completed on existing paved roadways, or on vegetated slopes adjacent to the freeway. Existing utilities would be protected in place within the Project Area. Because Project activities would be limited to Caltrans or City right of way in an area that is either occupied by, or directly adjacent to, existing transportation facilities, the Project would not have adverse effects on any resources with implementation of Project features, avoidance and minimization measures, and mitigation measures. Other past, present, and reasonably foreseeable actions listed in **Table 6** (see "Cumulative Impacts" above in Chapter 2) would also be required to implement project features, avoidance and minimization measures to reduce any adverse effects. Therefore, as discussed in Sections 2.1, 2.2, and 2.3 above, the proposed Project, in conjunction with past, present, and reasonably foreseeable actions, would not result in a cumulatively adverse effects on any resources and mitigation would not be required.

In addition, because all improvements would be completed within Caltrans or City right of way, avoidance and minimization measures would be implemented as part of the Project, and the Project would include context sensitive solutions, the Project does not have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly. Impacts will be less than significant. No mitigation is required.

## 3.3 Climate Change

Climate change refers to long-term changes in temperature, precipitation, wind patterns, and other elements of the earth's climate system. An ever-increasing body of scientific research attributes these climatological changes to GHG emissions, particularly those generated from the production and use of fossil fuels.

While climate change has been a concern for several decades, the establishment of the Intergovernmental Panel on Climate Change (IPCC) by the United Nations and World Meteorological Organization in 1988 led to increased efforts devoted to GHG emissions reduction and climate change research and policy. These efforts are primarily concerned with the emissions of GHGs generated by human activity, including carbon dioxide ( $CO_2$ ), methane ( $CH_4$ ), nitrous oxide ( $N_2O$ ), tetrafluoromethane, hexafluoroethane, sulfur hexafluoride ( $SF_6$ ), and various hydrofluorocarbons (HFCs).  $CO_2$  is the most abundant GHG; while it is a naturally occurring component of Earth's atmosphere, fossil-fuel combustion is the main source of additional, human-generated  $CO_2$ .

Two terms are typically used when discussing how we address the impacts of climate change: "greenhouse gas mitigation" and "adaptation." Greenhouse gas mitigation covers the activities and policies aimed at reducing GHG emissions to limit or "mitigate" the impacts of climate change. Adaptation, on the other hand, is concerned with planning for and responding to impacts resulting from climate change (such as adjusting transportation design standards to withstand more intense storms and higher sea levels). This analysis will include a discussion of both.

## 3.3.1 REGULATORY SETTING

This section outlines federal and state efforts to comprehensively reduce GHG emissions from transportation sources.

## Federal

To date, no national standards have been established for nationwide mobile-source GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level.

The National Environmental Policy Act (NEPA) (42 United States Code [USC] Part 4332) requires federal agencies to assess the environmental effects of their proposed actions prior to making a decision on the action or project.

The Federal Highway Administration recognizes the threats that extreme weather, sea-level change, and other changes in environmental conditions pose to valuable transportation infrastructure and those who depend on it. The Federal Highway Administration therefore supports a sustainability approach that assesses vulnerability to climate risks and incorporates resilience into planning, asset management, project development and design, and operations and maintenance practices (Federal Highway Administration 2019). This approach encourages planning for sustainable highways by addressing climate risks while balancing environmental, economic, and social values—"the triple bottom line of sustainability" (Federal Highway Administration n.d.). Program and project elements that foster sustainability and resilience also

support economic vitality and global efficiency, increase safety and mobility, enhance the environment, promote energy conservation, and improve the quality of life.

Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects. The most important of these was the Energy Policy and Conservation Act of 1975 (42 USC Section 6201) and Corporate Average Fuel Economy (CAFE) Standards. This act establishes fuel economy standards for onroad motor vehicles sold in the United States. Compliance with federal fuel economy standards is determined through the CAFE program based on each manufacturer's average fuel economy for the portion of its vehicles produced for sale in the United States.

Energy Policy Act of 2005, 109th Congress H.R.6 (2005–2006): This act sets forth an energy research and development program covering: (1) energy efficiency; (2) renewable energy; (3) oil and gas; (4) coal; (5) the establishment of the Office of Indian Energy Policy and Programs within the Department of Energy; (6) nuclear matters and security; (7) vehicles and motor fuels, including ethanol; (8) hydrogen; (9) electricity; (10) energy tax incentives; (11) hydropower and geothermal energy; and (12) climate change technology.

The U.S. EPA in conjunction with the National Highway Traffic Safety Administration (NHTSA) is responsible for setting GHG emission standards for new cars and light-duty vehicles to significantly increase the fuel economy of all new passenger cars and light trucks sold in the United States. Fuel efficiency standards directly influence GHG emissions.

#### State

California has been innovative and proactive in addressing GHG emissions and climate change by passing multiple Senate and Assembly bills and executive orders including, but not limited to, the following:

Executive Order S-3-05 (June 1, 2005): The goal of this Executive Order is to reduce California's GHG emissions to: (1) year 2000 levels by 2010, (2) year 1990 levels by 2020, and (3) 80 percent below year 1990 levels by 2050. This goal was further reinforced with the passage of Assembly Bill (AB) 32 in 2006 and Senate Bill (SB) 32 in 2016.

Assembly Bill (AB) 32, Chapter 488, 2006, Núñez and Pavley, The Global Warming Solutions Act of 2006: AB 32 codified the 2020 GHG emissions reduction goals outlined in Executive Order S-3-05, while further mandating that the California Air Resources Board create a scoping plan and implement rules to achieve "real, quantifiable, cost-effective reductions of greenhouse gases." The Legislature also intended that the statewide GHG emissions limit continue in existence and be used to maintain and continue reductions in emissions of GHGs beyond 2020 (Health and Safety Code [H&SC] Section 38551(b)). The law requires the California Air Resources Board to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG reductions.

Executive Order S-01-07 (January 18, 2007): This order sets forth the low carbon fuel standard (LCFS) for California. Under this Executive Order, the carbon intensity of California's transportation fuels is to be reduced by at least 10 percent by the year 2020. The California Air Resources Board re-adopted the LCFS regulation in September 2015, and the changes went

into effect on January 1, 2016. The program establishes a strong framework to promote the low-carbon fuel adoption necessary to achieve the Governor's 2030 and 2050 GHG reduction goals.

Senate Bill (SB) 375, Chapter 728, 2008, Sustainable Communities and Climate Protection: This bill requires the California Air Resources Board to set regional emissions reduction targets for passenger vehicles. The Metropolitan Planning Organization (MPO) for each region must then develop a "Sustainable Communities Strategy" that integrates transportation, land-use, and housing policies to plan how it will achieve the emissions target for its region.

SB 391, Chapter 585, 2009, California Transportation Plan: This bill requires the State's longrange transportation plan to identify strategies to address California's climate change goals under AB 32.

Executive Order B-16-12 (March 2012) orders State entities under the direction of the Governor, including the California Air Resources Board, the California Energy Commission, and the Public Utilities Commission, to support the rapid commercialization of zero-emission vehicles. It directs these entities to achieve various benchmarks related to zero-emission vehicles.

Executive Order B-30-15 (April 2015) establishes an interim statewide GHG emission reduction target of 40 percent below 1990 levels by 2030 to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050. It further orders all state agencies with jurisdiction over sources of GHG emissions to implement measures, pursuant to statutory authority, to achieve reductions of GHG emissions to meet the 2030 and 2050 GHG emissions reductions targets. It also directs the California Air Resources Board to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent (MMTCO<sub>2</sub>e).<sup>1</sup> Finally, it requires the Natural Resources Agency to update the state's climate adaptation strategy, Safeguarding California, every 3 years, and to ensure that its provisions are fully implemented.

SB 32, Chapter 249, 2016, codifies the GHG reduction targets established in Executive Order B-30-15 to achieve a mid-range goal of 40 percent below 1990 levels by 2030.

SB 1386, Chapter 545, 2016, declared "it to be the policy of the state that the protection and management of natural and working lands ... is an important strategy in meeting the state's greenhouse gas reduction goals, and would require all state agencies, departments, boards, and commissions to consider this policy when revising, adopting, or establishing policies, regulations, expenditures, or grant criteria relating to the protection and management of natural and working lands."

AB 134, Chapter 254, 2017, allocates Greenhouse Gas Reduction Funds and other sources to various clean vehicle programs, demonstration/pilot projects, clean vehicle rebates and projects, and other emissions-reduction programs statewide.

<sup>&</sup>lt;sup>1</sup> GHGs differ in how much heat each trap in the atmosphere (global warming potential, or GWP). CO<sub>2</sub> is the most important GHG, so amounts of other gases are expressed relative to CO<sub>2</sub>, using a metric called "carbon dioxide equivalent" (CO<sub>2</sub>e). The global warming potential of CO<sub>2</sub> is assigned a value of 1, and the GWP of other gases is assessed as multiples of CO<sub>2</sub>.

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SB 743, Chapter 386 (September 2013): This bill changes the metric of consideration for transportation impacts pursuant to CEQA from a focus on automobile delay to alternative methods focused on vehicle miles travelled, to promote the state's goals of reducing greenhouse gas emissions and traffic related air pollution and promoting multimodal transportation while balancing the needs of congestion management and safety.

SB 150, Chapter 150, 2017, Regional Transportation Plans: This bill requires the California Air Resources Board to prepare a report that assesses progress made by each metropolitan planning organization in meeting their established regional greenhouse gas emission reduction targets.

Executive Order B-55-18 (September 2018) sets a new statewide goal to achieve and maintain carbon neutrality no later than 2045. This goal is in addition to existing statewide targets of reducing GHG emissions.

Executive Order N-19-19 (September 2019) advances California's climate goals in part by directing the California State Transportation Agency to leverage annual transportation spending to reverse the trend of increased fuel consumption and reduce GHG emissions from the transportation sector. It orders a focus on transportation investments near housing, managing congestion, and encouraging alternatives to driving. This Executive Order also directs the California Air Resources Board to encourage automakers to produce more clean vehicles, formulate ways to help Californians purchase them, and propose strategies to increase demand for zero-emission vehicles.

#### 3.3.2 ENVIRONMENTAL SETTING

The proposed Project is in an urban area of Los Angeles County with a well-developed road and street network. The Project Area is mainly residential, with some light industrial and commercial buildings. State Route 91 is a major east-west transportation route for international, interstate, interregional, and intraregional movement of people goods throughout Los Angeles, Orange, Riverside, and San Bernardino counties. It provides access to the Ports of Los Angeles and Long Beach and serves the largest center for warehousing and transloading in the Los Angeles basin, at the southwest quadrant of State Route 91 and I-710 interchange. Also serving as a key commute route for southern Los Angeles County, Orange County, and Riverside County, State Route 91 experiences substantial congestion in the Project Area. The Regional Transportation Plan/Sustainable Communities Strategy by the Southern California Association of Governments (SCAG) guides transportation and housing development in the Project Area. The City of Long Beach Long Beach Sustainability City Action Plan addresses GHGs in the Project Area.

A GHG emissions inventory estimates the amount of GHGs discharged into the atmosphere by specific sources over a period of time, such as a calendar year. Tracking annual GHG emissions allows countries, states, and smaller jurisdictions to understand how emissions are changing and what actions may be needed to attain emission reduction goals. U.S. EPA is responsible for documenting GHG emissions nationwide, and the California Air Resources Board does so for the state, as required by H&SC Section 39607.4.

## **National GHG Inventory**

The U.S. EPA prepares a national GHG inventory every year and submits it to the United Nations in accordance with the Framework Convention on Climate Change. The inventory provides a comprehensive accounting of all human-produced sources of GHGs in the United States, reporting emissions of CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, perfluorocarbons, SF<sub>6</sub>, and nitrogen trifluoride. It also accounts for emissions of CO<sub>2</sub> that are removed from the atmosphere by "sinks" such as forests, vegetation, and soils that uptake and store CO<sub>2</sub> (carbon sequestration). The 1990–2016 inventory found that of 6,511 MMTCO2e GHG emissions in 2016, 81% consist of CO<sub>2</sub>, 10% are CH<sub>4</sub>, and 6% are N<sub>2</sub>O; the balance consists of fluorinated gases (U.S. EPA 2018). In 2016, GHG emissions from the transportation sector accounted for nearly 28.5% of U.S. GHG emissions.



## Figure 21: U.S. 2016 Greenhouse Gas Emissions

## **State GHG Inventory**

The California Air Resources Board collects GHG emissions data for transportation, electricity, commercial/residential, industrial, agricultural, and waste management sectors each year. It then summarizes and highlights major annual changes and trends to demonstrate the state's progress in meeting its GHG reduction goals. The 2019 edition of the GHG emissions inventory found total California emissions of 424.1 MMTCO<sub>2</sub>e for 2017, with the transportation sector responsible for 41% of total GHGs. It also found that overall statewide GHG emissions declined from 2000 to 2017 despite growth in population and state economic output (ARB 2019a).

AB 32 required the California Air Resources Board to develop a Scoping Plan that describes the approach California will take to achieve the goal of reducing GHG emissions to 1990 levels by 2020, and to update it every 5 years. The California Air Resources Board adopted the first scoping plan in 2008. The second updated plan, California's 2017 Climate Change Scoping

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Plan, adopted on December 14, 2017, reflects the 2030 target established in Executive Order B-30-15 and SB 32. The AB 32 Scoping Plan and the subsequent updates contain the main strategies California will use to reduce GHG emissions.



Figure 22: California 2017 Greenhouse Gas Emissions



Figure 23: Change in California GDP, Population, and GHG Emissions since 2000 (Source: California Air Resources Board 2019b)

## **Regional Plans**

The California Air Resources Board sets regional targets for California's 18 MPOs to use in their Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) to plan future projects that will cumulatively achieve GHG reduction goals. Targets are set at a percent

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reduction of passenger vehicle GHG emissions per person from 2005 levels. The Project is included in the Regional Transportation Plan/Sustainable Communities Strategy for the SCAG. The regional reduction targets for SCAG are 8 percent by 2020 and 19 percent by 2035 (ARB 2019c).

The SCAG 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy identifies the following GHG reduction policies and strategies:

- Protect and preserve what we have first, supporting 'Fix it First' principle, including the consideration of life cycle costs beyond construction
- Support continued system preservation funding and augment as necessary
- Focus on achieving maximum productivity through strategic investments in system management and demand management. Focus on adding capacity primarily (but not exclusively) to:
  - Close gaps in the system
  - Improve access where needed
- Support policies and system improvements that will encourage the seamless operation of our roadway network from a user perspective
- Consider safety in all roadway improvement projects
- Assure that any new roadway capacity project is developed with consideration and incorporation of congestion management strategies, including demand management measures, operational improvements, transit and Intelligent Transportation Systems
- Focus on addressing non-recurring congestion with new technology
- Implement Complete Streets consistent with California's Complete Streets Act

#### 3.3.3 PROJECT ANALYSIS

GHG emissions from transportation projects can be divided into those produced during operation of the SHS and those produced during construction. The primary GHGs produced by the transportation sector are CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and HFCs. CO<sub>2</sub> emissions are a product of the combustion of petroleum-based products, like gasoline, in internal combustion engines. Relatively small amounts of CH<sub>4</sub> and N<sub>2</sub>O are emitted during fuel combustion. In addition, a small amount of HFC emissions are included in the transportation sector.

The CEQA Guidelines generally address greenhouse gas emissions as a cumulative impact due to the global nature of climate change (Pub. Resources Code, § 21083(b)(2)). As the California Supreme Court explained, "because of the global scale of climate change, any one project's contribution is unlikely to be significant by itself." (Cleveland National Forest

Foundation v. San Diego Assn. of Governments (2017) 3 Cal.5th 497, 512.) In assessing cumulative impacts, it must be determined if a project's incremental effect is "cumulatively considerable" (CEQA Guidelines Sections 15064(h)(1) and 15130).

To make this determination, the incremental impacts of the Project must be compared with the effects of past, current, and probable future projects. Although climate change is ultimately a cumulative impact, not every individual project that emits greenhouse gases must necessarily be found to contribute to a significant cumulative impact on the environment.

#### **Operational Emissions**

The purpose of the Project is to enhance safety conditions on the Eastbound State Route 91 mainline, reduce congestion, and improve Eastbound freeway operations (both mainline and ramps). The auxiliary lane would be less than 1 mile long and would not increase the vehicle capacity of the roadway. This type of project generally causes minimal or no increase in operational GHG emissions and is generally considered a non-capacity increasing project for purposes of Caltrans GHG analysis. However, because the Air Quality Report (November 2020) evaluated the Project as capacity-increasing, a quantitative analysis of operational GHG emissions is provided below.

Motor vehicle operational emissions were quantified for existing, Opening Year 2024 and Design Year 2045 conditions. Emissions were quantified using the CT-EMFAC2017 version 1.0.2 computer program based, in part, on traffic data provided for this project (Iteris 2020). Estimated annual operational mobile-source GHG emissions and traffic conditions for the Project Study Area are summarized in **Table 40**.

The traffic data used in the Air Quality Report indicates increases in VMT from existing to 2024 and 2045 No-Build and Build conditions, with Build Alternatives slightly higher than No-Build in both years. However, as depicted in **Table 40**, mobile-source GHG emissions within the Project Study Area are shown to decrease in the future compared to existing conditions of approximately 24,266 MTCO<sub>2</sub>e in 2019. Under the Build Alternative, in opening year 2024, GHG emissions would be 22,400 MTCO<sub>2</sub>e/year, a decrease of 8 percent from existing. In 2045, GHG emissions would be 20,008 MTCO<sub>2</sub>e/year, a decrease of 18 percent compared to existing.

Under No Build Alternative year 2024 and 2045 conditions, mobile-source GHG emissions within the Project Study Area are predicted to total approximately 21,829 MTCO<sub>2</sub>e/year and 19,502 MTCO<sub>2</sub>e/year, respectively. In comparison to existing conditions, the No Build Alternative would result in an approximately 10 percent decrease in mobile-source GHG emissions under 2024 conditions and an approximately 20 percent decrease under 2045 conditions. While the proposed Build Alternative is predicted to increase mobile-source GHGs by approximately 3 percent compared to the No-Build Alternative in both 2024 and 2045, in all cases GHG emissions would be less than existing.

Although VMT is projected to increase from existing conditions to year 2024 and 2045 conditions (No-Build and Build), mobile-source GHG emissions are anticipated to decrease in future years due to implementation of fuel regulations, improved fleet average fuel economy, and the gradual removal of older vehicles from the roads.

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| Scenario/Analysis Year                             | Annual VMT | MTCO <sub>2</sub> e/Year (Percent Change) |
|----------------------------------------------------|------------|-------------------------------------------|
| Existing – Year 2019                               | 62,572,570 | 24,266.30                                 |
| No-Build Alternative – Opening Year 2024           | 62,797,055 | 21,828.97                                 |
| No-Build Alt. 2024 Compared to Existing:           |            | -2,437.33 (-10 precent)                   |
| Build Alternative – Opening Year 2024 64,423,184   |            | 22,400.16                                 |
| Build Alt. Compared to Existing:                   |            | -1,866.15 (-8 percent)                    |
| Build Alt. Compared to No-Build Alt. 2024:         |            | 571.19 (3%)                               |
| No-Build Alternative – Design Year 2045 63,634,314 |            | 19,501.81                                 |
| No-Build Alt. 2045 Compared to Existing:           |            | -4,764.50 (-20 percent)                   |
| Build Alternative – Design Year 2045 65,274,642    |            | 20,007.55                                 |
| Build Alt. 2045 Compared to Existing:              |            | -4,258.75 (-18 percent)                   |
| Build Alt. 2045 Compared to No-Build Alt. 2045:    |            | 505.75 (3 precent)                        |

#### Table 40: Summary of Comparative GHG Emissions and Traffic Conditions

Source: AMBIENT Air Quality and Noise Consulting, 2020

Notes: VMT = vehicle miles traveled;  $MTCO_2e = metric tons of carbon dioxide equivalents$ 

Emissions were quantified using EMFAC2017 emission factors and traffic data provided for this project.

Annual VMT is derived from Daily VMT multiplied by 347 (California Air Resources Board [ARB] methodology [ARB, 2008]). There is no significant difference in projected traffic volumes/data between year 2040 and year 2045. Therefore, 2045 traffic data is presented as the Horizon/Design Year (2040) for purposes of this table.

This analysis accounts for the effects of the US National Highway Traffic Safety Administration and Environmental Protection Agency SAFE (Safer Affordable Fuel-Efficient) Vehicles Rule. Part One revoking California's authority to set its own GHG emissions standards was published on September 27, 2019 and effective November 26, 2019. The SAFE Vehicles Rule Part Two became effective June 30, 2020. It amended existing Corporate Average Fuel Economy (CAFE) and tailpipe carbon dioxide emissions standards for passenger cars and light trucks and established new standards covering model years 2021 through 2026. The rule retains the model year 2020 standards for both programs through model year 2026. In June 2020, the California Air Resources Board released a document with scalar factors for CO<sub>2</sub> to be applied to CT-EMFAC2017 values to more accurately reflect the fleet mix of future years (California Air Resources Board, 2020). CO<sub>2</sub> and MTCO<sub>2</sub>e values have been scaled based on California Air Resources Board's adjustment factors.

While CT-EMFAC has a rigorous scientific foundation and has been vetted through multiple stakeholder reviews, its GHG emission rates are based on tailpipe emission test data. Moreover, the model does not account for factors such as the rate of acceleration and vehicle aerodynamics, which influence the amount of emissions generated by a vehicle. GHG emissions quantified using CT-EMFAC are therefore estimates and may not reflect actual physical emissions. Though CT-EMFAC is currently the best available tool for calculating GHG emissions from mobile sources, it is important to note that the GHG results are only useful for a comparison among alternatives.

# **Construction Emissions**

Construction GHG emissions would result from material processing, on-site construction equipment, and traffic delays due to construction. These emissions will be produced at different levels throughout the construction phase; their frequency and occurrence can be reduced through innovations in plans and specifications and by implementing better traffic management during construction phases. In addition, with innovations such as longer pavement lives, improved traffic management plans, and changes in materials, the GHG emissions produced

during construction can be offset to some degree by longer intervals between maintenance and rehabilitation activities. GHG emissions can also be reduced by the use of cleaner more efficient equipment. The Project would comply with applicable State, Federal, and/or local rules, regulations, and control and mitigation measures.

Construction-generated GHG emissions were estimated using the Sacramento Metropolitan Air Quality Management District's (SMAQMD) Road Construction Emissions Model, Version 9.0.0 and are summarized in **Table 41**. Construction of the Build Alternative would occur over an approximately 24-month period and would generate a total of approximately 1,647 metric tons of  $CO_2e$ .

All construction contracts include Caltrans Standard Specifications Section 7-1.02A and 7-1.02C, Emissions Reduction, which require contractors to comply with all laws applicable to the Project and to certify they are aware of and will comply with all California Air Resources Board emission reduction regulations; and Section 14-9.02, Air Pollution Control, which requires contractors to comply with all air pollution control rules, regulations, ordinances, and statutes. Certain common regulations, such as equipment idling restrictions, that reduce construction vehicle emissions also help reduce GHG emissions. In addition, Project-level GHG reduction strategies would be implemented (see **PF-AQ-1**, **PF-AQ-5**, **PF-AQ-8**, and **PF-AQ-12** in Section 3.3.4 below).

# Table 41: Construction-Generated GHG Emissions

| Construction Phase           | MTCO <sub>2</sub> e |
|------------------------------|---------------------|
| Land Clearing/Grubbing       | 55.67               |
| Grading/Excavation           | 1,065.09            |
| Drainage/Utilities/Sub-Grade | 419.56              |
| Paving                       | 106.51              |
| Maximum/Phase:               | 1,065.09            |
| Project Total:               | 1,646.84            |

Source: AMBIENT Air Quality and Noise Consulting, 2020

Notes: MTCO<sub>2</sub>e = metric tons of carbon dioxide equivalents

Maximum/Phase refers to the amount of  $MTCO_2e$  emissions resulting from the construction phase that generates the highest GHG emissions (Grading/Excavation).

# **CEQA Conclusion**

While the proposed Project will result in GHG emissions during construction, it is anticipated that the Project will not result in any increase in operational GHG emissions compared to existing conditions. The proposed Project does not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases. With implementation of construction GHG-reduction measures, the impact would be less than significant.

Caltrans is firmly committed to implementing measures to help reduce GHG emissions. These measures are outlined in the following section.

# 3.3.4 GREENHOUSE GAS REDUCTION STRATEGIES

# Statewide Efforts

Major sectors of the California economy, including transportation, will need to reduce emissions to meet the 2030 and 2050 GHG emissions targets. Former Governor Edmund G. Brown promoted GHG reduction goals that involved (1) reducing today's petroleum use in cars and trucks by up to 50 percent; (2) increasing from one-third to 50 percent our electricity derived from renewable sources; (3) doubling the energy efficiency savings achieved at existing buildings and making heating fuels cleaner; (4) reducing the release of methane, black carbon, and other short-lived climate pollutants; (5) managing farms and rangelands, forests, and wetlands so they can store carbon; and (6) periodically updating the state's climate adaptation strategy, *Safeguarding California*.



Figure 24: California Climate Strategy

The transportation sector is integral to the people and economy of California. To achieve GHG emission reduction goals, it is vital that the state build on past successes in reducing criteria and toxic air pollutants from transportation and goods movement. GHG emission reductions will come from cleaner vehicle technologies, lower-carbon fuels, and reduction of vehicle miles traveled (VMT). A key state goal for reducing greenhouse gas emissions is to reduce today's petroleum use in cars and trucks by up to 50 percent by 2030 (State of California 2019).

In addition, SB 1386 (Wolk 2016) established as state policy the protection and management of natural and working lands and requires state agencies to consider that policy in their own decision making. Trees and vegetation on forests, rangelands, farms, and wetlands remove carbon dioxide from the atmosphere through biological processes and sequester the carbon in above- and below-ground matter.

# **Caltrans Activities**

Caltrans continues to be involved on the Governor's Climate Action Team as the California Air Resources Board works to implement Executive Orders S-3-05 and S-01-07 and help achieve the targets set forth in AB 32. Executive Order B-30-15, issued in April 2015, and SB 32 (2016), set an interim target to cut GHG emissions to 40 percent below 1990 levels by 2030. The following major initiatives are underway at Caltrans to help meet these targets.

# CALIFORNIA TRANSPORTATION PLAN (CTP 2040)

The California Transportation Plan (CTP) is a statewide, long-range transportation plan to meet our future mobility needs and reduce GHG emissions. In 2016, Caltrans completed the California Transportation Plan 2040, which establishes a new model for developing ground transportation systems, consistent with CO<sub>2</sub> reduction goals. It serves as an umbrella document for all the other statewide transportation planning documents. Over the next 25 years, California will be working to improve transit and reduce long-run repair and maintenance costs of roadways and developing a comprehensive assessment of climate-related transportation demand management and new technologies rather than continuing to expand capacity on existing roadways.

SB 391 (Liu 2009) requires the CTP to meet California's climate change goals under AB 32. Accordingly, the CTP 2040 identifies the statewide transportation system needed to achieve maximum feasible GHG emission reductions while meeting the state's transportation needs. While MPOs have primary responsibility for identifying land use patterns to help reduce GHG emissions, CTP 2040 identifies additional strategies in Pricing, Transportation Alternatives, Mode Shift, and Operational Efficiency.

#### CALTRANS STRATEGIC MANAGEMENT PLAN

The Strategic Management Plan, released in 2015, creates a performance-based framework to preserve the environment and reduce GHG emissions, among other goals. Specific performance targets in the plan that will help to reduce GHG emissions include:

- Increasing percentage of non-auto mode share
- Reducing VMT
- Reducing Caltrans' internal operational (buildings, facilities, and fuel) GHG emissions

#### FUNDING AND TECHNICAL ASSISTANCE PROGRAMS

In addition to developing plans and performance targets to reduce GHG emissions, Caltrans also administers several sustainable transportation planning grants. These grants encourage local and regional multimodal transportation, housing, and land use planning that furthers the region's Regional Transportation Plan/Sustainable Communities Strategy; contribute to the State's GHG reduction targets and advance transportation-related GHG emission reduction project types/strategies; and support other climate adaptation goals (e.g., Safeguarding California).

# **CALTRANS POLICY DIRECTIVES AND OTHER INITIATIVES**

Caltrans Director's Policy 30 (DP-30) Climate Change (June 22, 2012) is intended to establish a Department policy that will ensure coordinated efforts to incorporate climate change into Departmental decisions and activities. Caltrans Activities to Address Climate Change (April 2013) provides a comprehensive overview of Caltrans' statewide activities to reduce GHG emissions resulting from agency operations.

# **Project-Level GHG Reduction Strategies**

The following measures will also be implemented in the Project to reduce GHG emissions and potential climate change impacts from the Project.

The Project will include Transportation System Management measures to improve operations, such as improved ramp metering, coordinated traffic signals, and intelligent transportation system elements, among others. Smoother operation helps reduce vehicle emissions.

| PF-AQ-1 | The construction contractor must comply with the Caltrans' Standard |
|---------|---------------------------------------------------------------------|
|         | Specifications in Section 14-9 (2018).                              |

- Section 14-9-02 specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.
- **PF-AQ-5** Construction equipment and vehicles will be properly tuned and maintained. All construction equipment will use low sulfur fuel as required by the CA Code of Regulations Title 17, Section 93114.
- **PF-AQ-8** Construction activities involving the extended idling of diesel equipment or vehicles will be limited near air sensitive receptors to the extent feasible.
- **PF-AQ-12** To the extent feasible, construction traffic will be scheduled and routed to reduce congestion and related air quality impacts caused by idling vehicles along local roads during peak travel times.
- **PF-AQ-14** South Coast Air Quality Management District (SCAQMD) Rule 403 Fugitive Dust. Construction activity sources are required to implement best available control measures for the control of fugitive dust.
- **AVM-VIS-2** Where feasible, drought tolerant trees, shrubs, and groundcover will be incorporated within the Project right of way to help improve the overall visual quality of this area. These landscape concepts include CO2 sequestering elements to help contain and reduce CO2 emissions. The plant palette will be developed in consultation with a Caltrans landscape architect.

# 3.3.5 ADAPTATION

Reducing GHG emissions is only one part of an approach to addressing climate change. Caltrans must plan for the effects of climate change on the state's transportation infrastructure and strengthen or protect the facilities from damage. Climate change is expected to produce increased variability in precipitation, rising temperatures, rising sea levels, variability in storm surges and their intensity, and in the frequency and intensity of wildfires. Flooding and erosion can damage or wash out roads; longer periods of intense heat can buckle pavement and railroad tracks; storm surges combined with a rising sea level can inundate highways. Wildfire can directly burn facilities and indirectly cause damage when rain falls on denuded slopes that landslide after a fire. Effects will vary by location and may, in the most extreme cases, require that a facility be relocated or redesigned. Accordingly, Caltrans must consider these types of climate stressors in how highways are planned, designed, built, operated, and maintained.

# Federal Efforts

Under NEPA assignment, Caltrans is obligated to comply with all applicable federal environmental laws and Federal Highway Administration NEPA regulations, policies, and guidance.

The U.S. Global Change Research Program (USGCRP) delivers a report to Congress and the president every 4 years, in accordance with the Global Change Research Act of 1990 (15 U.S.C. ch. 56A § 2921 et seq). The Fourth National Climate Assessment, published in 2018, presents the foundational science and the "human welfare, societal, and environmental elements of climate change and variability for 10 regions and 18 national topics, with particular attention paid to observed and projected risks, impacts, consideration of risk reduction, and implications under different mitigation pathways." Chapter 12, "Transportation," presents a key discussion of vulnerability assessments. It notes that "asset owners and operators have increasingly conducted more focused studies of particular assets that consider multiple climate hazards and scenarios in the context of asset-specific information, such as design lifetime" (USGCRP 2018).

The U.S. DOT Policy Statement on Climate Adaptation in June 2011 committed the federal Department of Transportation to "integrate consideration of climate change impacts and adaptation into the planning, operations, policies, and programs of DOT in order to ensure that taxpayer resources are invested wisely, and that transportation infrastructure, services and operations remain effective in current and future climate conditions" (U.S. DOT 2011).

Federal Highway Administration order 5520 (Transportation System Preparedness and Resilience to Climate Change and Extreme Weather Events, December 15, 2014) established Federal Highway Administration policy to strive to identify the risks of climate change and extreme weather events to current and planned transportation systems. The Federal Highway Administration has developed guidance and tools for transportation planning that foster resilience to climate effects and sustainability at the federal, state, and local levels (Federal Highway Administration 2019).

# State Efforts

Climate change adaptation for transportation infrastructure involves long-term planning and risk management to address vulnerabilities in the transportation system. California's Fourth Climate Change Assessment (2018) is the state's effort to "translate the state of climate science into useful information for action" in a variety of sectors at both statewide and local scales. It adopts the following key terms used widely in climate change analysis and policy documents:

- Adaptation to climate change refers to adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities.
- Adaptive capacity is the "combination of the strengths, attributes, and resources available to an individual, community, society, or organization that can be used to prepare for and undertake actions to reduce adverse impacts, moderate harm, or exploit beneficial opportunities."
- *Exposure* is the presence of people, infrastructure, natural systems, and economic, cultural, and social resources in areas that are subject to harm.
- *Resilience* is the "capacity of any entity an individual, a community, an organization, or a natural system to prepare for disruptions, to recover from shocks and stresses, and to adapt and grow from a disruptive experience". Adaptation actions contribute to increasing resilience, which is a desired outcome or state of being.
- Sensitivity is the level to which a species, natural system, or community, government, etc., would be affected by changing climate conditions.
- Vulnerability is the "susceptibility to harm from exposure to stresses associated with environmental and social change and from the absence of capacity to adapt." Vulnerability can increase because of physical (built and environmental), social, political, and/or economic factor(s). These factors include, but are not limited to: ethnicity, class, sexual orientation and identification, national origin, and income inequality. Vulnerability is often defined as the combination of sensitivity and adaptive capacity as affected by the level of exposure to changing climate.

Several key state policies have guided climate change adaptation efforts to date. Recent state publications produced in response to these policies draw on these definitions.

Executive Order S-13-08, issued by then-governor Arnold Schwarzenegger in November 2008, focused on sea-level rise and resulted in the *California Climate Adaptation Strategy* (2009), updated in 2014 as *Safeguarding California: Reducing Climate Risk* (Safeguarding California Plan). The Safeguarding California Plan offers policy principles and recommendations and continues to be revised and augmented with sector-specific adaptation strategies, ongoing actions, and next steps for agencies.

Executive Order S-13-08 also led to the publication of a series of sea-level rise assessment reports and associated guidance and policies. These reports formed the foundation of an interim *State of California Sea-Level Rise Interim Guidance Document* (SLR Guidance) in 2010, with instructions for how state agencies could incorporate "sea-level rise (SLR) projections into planning and decision making for projects in California" in a consistent way across agencies. The guidance was revised and augmented in 2013. *Rising Seas in California – An Update on Sea-Level Rise Science* was published in 2017 and its updated projections of sea-level rise and

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new understanding of processes and potential impacts in California were incorporated into the *State of California Sea-Level Rise Guidance Update* in 2018.

Executive Order B-30-15, signed in April 2015, requires state agencies to factor climate change into all planning and investment decisions. This Executive Order recognizes that effects of climate change other than sea-level rise also threaten California's infrastructure. At the direction of Executive Order B-30-15, the Office of Planning and Research published *Planning and Investing for a Resilient California: A Guidebook for State Agencies* in 2017, to encourage a uniform and systematic approach. Representatives of Caltrans participated in the multi-agency, multidisciplinary technical advisory group that developed this guidance on how to integrate climate change into planning and investment.

AB 2800 (Quirk 2016) created the multidisciplinary Climate-Safe Infrastructure Working Group, which in 2018 released its report, *Paying it Forward: The Path Toward Climate-Safe Infrastructure in California*. The report provides guidance to agencies on how to address the challenges of assessing risk in the face of inherent uncertainties still posed by the best available science on climate change. It also examines how state agencies can use infrastructure planning, design, and implementation processes to address the observed and anticipated climate change impacts.

#### **Caltrans Adaptation Efforts**

#### **CALTRANS VULNERABILITY ASSESSMENTS**

Caltrans is conducting climate change vulnerability assessments to identify segments of the State Highway System vulnerable to climate change effects including precipitation, temperature, wildfire, storm surge, and sea-level rise. The approach to the vulnerability assessments was tailored to the practices of a transportation agency, and involves the following concepts and actions:

- *Exposure* Identify Caltrans assets exposed to damage or reduced service life from expected future conditions.
- Consequence Determine what might occur to system assets in terms of loss of use or costs of repair.
- *Prioritization* Develop a method for making capital programming decisions to address identified risks, including considerations of system use and/or timing of expected exposure.

The climate change data in the assessments were developed in coordination with climate change scientists and experts at federal, state, and regional organizations at the forefront of climate science. The findings of the vulnerability assessments will guide analysis of at-risk assets and development of adaptation plans to reduce the likelihood of damage to the State Highway System, allowing Caltrans to both reduce the costs of storm damage and to provide and maintain transportation that meets the needs of all Californians.

#### **Project Adaptation Analysis**

The Caltrans 2019 Climate Change Vulnerability Assessments, District 7 Technical Report, discusses climate change stressors in the district, which include temperature, wildfire, sea level rise, storm surge, and cliff retreat, as follows:

- Temperature rise is a direct outcome of increased concentrations of GHGs in the atmosphere.
- Increasing temperatures, changing precipitation patterns, and resulting changes to land cover, are expected to affect wildfire frequency and intensity.
- Historic sea level rise in the Los Angeles area has been at a rate of around a third of an inch per year (or one millimeter per year).
- Sea level rise will exacerbate the effects of coastal storm surges, as more forceful waves reach higher on shore.
- Storm events can lead to erosion, scour, and washouts underneath the highway itself, and can result in cliff retreat.

The District 7 Technical Report includes a prioritization method for those facilities with high exposure to climate change risk.

SCAG's 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy includes policies and strategies aimed to reduce GHG emissions (see above Section 3.3.2, Environmental Setting, under "Regional Plans"). SCAG is developing a Regional Climate Adaptation Framework to help local and regional jurisdictions plan and prepare for the effects of sea level rise, extreme heat, increased wildfires, and other climate-related issues. In addition, the City of Long Beach adopted a Sustainable City Action Plan (adopted February 2010), which identifies sustainability goals to reduce GHG emissions. These goals include improving transit options, expanding bicycle infrastructure, promoting a less car dependent lifestyle, and reducing port-related air emissions.

As discussed above in Section 3.3.3, Project Analysis, the Project would not increase operational GHG emissions and would include measures to minimize construction generated GHG emissions. Therefore, the Project would not conflict with policies and strategies adopted for the purpose of reducing GHG emissions.

Climate-change risk analysis involves uncertainties as to the timing and intensity of potential risks. However, the Project Area is not located within an area with high hazard risks, as discussed below. In addition, the Project would not exacerbate the effects of climate change related to flooding, hazards, and wildfire.

# SEA LEVEL RISE

The proposed Project is outside the coastal zone and not in an area subject to sea-level rise. Accordingly, direct impacts to transportation facilities due to projected sea-level rise are not expected.

# FLOODPLAINS

The Project is not located within a 100-year base floodplain. Accordingly, direct impacts to transportation facilities due to flooding are not expected. The Caltrans District 7 Climate Change Vulnerability Assessment notes that precipitation is likely to come in fewer, more-intense events with climate change. It maps changes in the 100-year storm precipitation depth, a metric commonly used in highway design. The Project Area is shown in a location likely to experience a less than 5 percent increase in storm precipitation depth through 2085 (Caltrans 2019). The

proposed Project would increase impervious surface area that could increase the volume and velocity of stormwater runoff. Existing treatment BMPs would be retained or replaced, and Project feature PF-WQ-3 would provide permanent BMPs to minimize runoff effects from the new impervious surface area. With these features, the Project would likely be resilient to effects of a relatively small potential increase in storm precipitation.

# WILDFIRE

The Project is in a built-up, urban location. Based on the California Department of Forestry and Fire Protection's map of Fire Hazard Severity Zones in State Responsibility Areas, the Project is not located in or near a state responsibility area or land classified as very high fire hazard severity zone (refer to **Figure 25**) (CAL FIRE, 2007). The District 7 Climate Change Vulnerability Assessment shows the Project location is not considered exposed roadway or in an area of wildfire concern through 2085. Caltrans 2018 revised Standard Specification 7-1.02M(2) mandates fire prevention procedures during construction, including a fire prevention plan. Accordingly, direct impacts to transportation facilities due to wildfire are not expected.

Figure 25: Fire Hazard Severity Zones



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# **Chapter 4 – Comments and Coordination**

Early and continuing coordination with the general public and public agencies is an essential part of the environmental process. It helps planners determine the necessary scope of environmental documentation and the level of analysis required, and to identify potential impacts and avoidance, minimization, and/or mitigation measures and related environmental requirements. Agency and tribal consultation and public participation for this project have been accomplished through a variety of formal and informal methods, including interagency coordination meetings, public meetings, public notices, and Project Development Team (PDT) meetings. This chapter summarizes the results of Caltrans' efforts to fully identify, address, and resolve project-related issues through early and continuing coordination.

#### Public Participation

To comply with the requirements of CEQA and NEPA, a joint IS/EA was prepared to evaluate the potential environmental effects from the Project. Caltrans is the lead agency under CEQA and NEPA. The Draft IS/EA was initially circulated to the public from December 17, 2020 to February 1, 2021, for a total of 45 days. Public and agency coordination will continue to be documented through the CEQA/NEPA process.

A Notice of Availability/Notice of Intent (NOA/NOI) to Adopt a Mitigated Negative Declaration under CEQA and Notice of Opportunity for a Public Hearing was published on December 17, 2020, for a period between December 17, 2020 until February 1, 2021. The NOA/NOI and Notice of Opportunity for a Public Hearing was mailed to the distribution list in Chapter 6 and to residents in proximity to the Project Area (owners or occupants of properties to the south of East 68<sup>th</sup> Street, to the north of Artesia Boulevard, to the east of I-710, and to the west of the Union Pacific Railroad that runs between Cherry and Paramount Avenues). The public noticing mailing limits were selected based on roadways and the Union Pacific Railroad, as these linear transportation facilities typically serve as delineators of neighborhood boundaries. In addition, the public noticing mailing limits were selected in consideration of areas where potential direct and indirect impacts could result from Project construction and operation.

The NOA/NOI and Notice of Opportunity for a Public Hearing was also published on December 17, 2020 in two local newspapers, the Long Beach Press-Telegram (English) and La Opinion (Spanish). During circulation the Draft IS/EA was available to view electronically at <a href="https://www.metro.net/projects/i-605-corridor-hot-spots-program/SR-91-early-action-projects/">https://www.metro.net/projects/i-605-corridor-hot-spots-program/SR-91-early-action-projects/</a>.

During the public review period, the Project team received and complied with a request for a Public Hearing. To provide time for the Public Hearing and adequate time for the public to provide comments, the public review period was extended until March 1, 2021. The Draft Environmental Document was in circulation for community feedback for a total of 75 days.

Details of the virtual Public Hearing were published in two newspapers, the Long Beach Press-Telegram (English) and La Opinion (Spanish) on February 11, 2021, one week in advance of the Public Hearing. Notices with the hearing details in English and Spanish were also mailed to residents in proximity to the Project Area, and a community-friendly postcard was distributed to adjacent residents. Additionally, Metro's project website was updated to include project materials, such as a project fact sheet (in English and Spanish), a project Frequently Asked

Questions (FAQ) (in English and Spanish), and the presentation materials (English and Spanish).

A virtual Public Hearing, via the Zoom Meeting platform, was held on February 18, 2021 from 6pm to 8pm and was attended by approximately 85 members of the public. In addition to joining the hearing via Zoom Meeting, participants were provided a telephone-only option with dedicated English and Spanish lines. Participants using the Zoom Meeting platform could also select to listen to the presentation via a Spanish translator using the Zoom Interpretation feature.

The Public Hearing was also attended by representatives of the City of Long Beach, District 9. The Public Hearing was an open forum format where the Project team gave a brief presentation of the Project followed by representatives from Caltrans, Metro, and their consultants who were available to respond to questions and accept formal comments on the Draft Environmental Document. Meeting attendees were advised to review and comment on the Draft Environmental Document. Concerns raised by the public included air quality, noise, environmental justice, water quality, traffic, community engagement, equity, community health, maintenance, cumulative, and the City of Long Beach's Hamilton Loop Project.

Participants were also encouraged to provide additional comments following the Public Hearing. Instructions and details were provided to participants for the formal comment submittal process. Comments could either be submitted by mailing comments to Caltrans District 7, Division of Environmental Planning, or by emailing comments to the dedicated project email address (d07.91atlantictocherry@dot.ca.gov).

As shown in **Table 42**, a total of 26 comment letters and emails were received during the 75-day public circulation period. Comment letters received included: one from a federal agency, two from local agencies, two from regional agencies, and 21 from interested parties. A written response to all formal environmental comments received during the public review period, as well as the letters, are provided in **Appendix F**. Each formal comment letter received has been assigned a letter/number code (see **Table 42**). In response to some of the comments received, the text in the IS/EA has been revised. Clarifying questions and comments were also received during the Public Hearing and are provided in **Table 43** and **Table 44** in **Appendix F**.

| Letter /<br>Comment | Commenter                                                    | Date of<br>Letter | Category                              | Page<br>number of<br>Posponso |
|---------------------|--------------------------------------------------------------|-------------------|---------------------------------------|-------------------------------|
| F-1                 | EPA (Connell Dunning)                                        | 2/01/2021         | Federal Agency                        | F-5                           |
| L-1                 | Office of Assemblymember<br>Rendon (Diana Morales)           | 1/29/2021         | Interested<br>Party/Elected Officials | F-10                          |
| L-2                 | City of Long Beach<br>(Thomas B. Modica)                     | 2/18/2021         | Local Agency                          | F-15                          |
| R-1                 | Los Angeles County<br>Sanitation Districts<br>(Adriana Raza) | 2/1/2021          | Regional/County<br>Agency             | F-18                          |

| Table 42: Comment Letters Received on Draft Initial St | tudy/Environmental Assessment |
|--------------------------------------------------------|-------------------------------|
|--------------------------------------------------------|-------------------------------|

| R-2   | South Coast Air Quality<br>Management District (Jo<br>Kay Ghosh, Ph.D) | 2/4/2021  | Regional/County<br>Agency | F-21 |
|-------|------------------------------------------------------------------------|-----------|---------------------------|------|
| IP-1  | Jaesen Alfassa                                                         | 1/11/2021 | Interested Party          | F-22 |
| IP-2  | Nehyam Neighborhood<br>Association (Jeff Rowe)                         | 1/17/2021 | Interested Party          | F-24 |
| IP-3  | Hilda Gaytan                                                           | 1/18/2021 | Interested Party          | F-25 |
| IP-4  | Kinder Morgan (Nicole<br>Rodriguez)                                    | 1/20/2021 | Interested Party          | F-26 |
| IP-5  | Kinder Morgan (Nicole<br>Rodriguez)                                    | 1/20/2021 | Interested Party          | F-28 |
| IP-6  | Henry Aguilar                                                          | 1/28/2021 | Interested Party          | F-30 |
| IP-7  | Pacific Pipeline System<br>LLC (Jason Kerr)                            | 1/29/2021 | Interested Party          | F-33 |
| IP-8  | Esteban McKenzie                                                       | 1/30/2021 | Interested Party          | F-34 |
| IP-9  | Renette Mazza                                                          | 2/11/2021 | Interested Party          | F-39 |
| IP-10 | Hilda Gaytan                                                           | 2/17/2021 | Interested Party          | F-42 |
| IP-11 | Kirk Davis                                                             | 2/17/2021 | Interested Party          | F-46 |
| IP-12 | Renette Mazza                                                          | 2/19/2021 | Interested Party          | F-49 |
| IP-13 | Jaesen Alfassa                                                         | 2/20/2021 | Interested Party          | F-51 |
| IP-14 | Natural Resources<br>Defense Council (Natalia<br>Ospina)               | 3/1/2021  | Interested Party          | F-64 |
| IP-15 | Flavia Davies                                                          | 3/1/2021  | Interested Party          | F-74 |
| IP-16 | Kirk Davis                                                             | 3/1/2021  | Interested Party          | F-78 |
| IP-17 | Kirk Davis                                                             | 3/1/2021  | Interested Party          | F-81 |
| IP-18 | Kirk Davis                                                             | 3/1/2021  | Interested Party          | F-91 |
| IP-19 | Kirk Davis                                                             | 3/1/2021  | Interested Party          | F-93 |
| IP-20 | Hilda Gaytan                                                           | 3/1/2021  | Interested Party          | F-95 |
| IP-21 | Carlos Ovalle                                                          | 3/2/2021  | Interested Party          | F-96 |

#### Interagency Coordination Meetings

At the onset of the Project, the PDT met with the City of Long Beach to provide an overview of the Project and to obtain feedback for coordination efforts moving forward. The City of Long Beach notified the PDT that a proposed greenbelt, the Hamilton Loop (also known as the State Route 91 Embankment Greenbelt), is planned in Caltrans right of way within the Project Area. Coordination is being conducted with the City of Long Beach so that the Project will not preclude the proposed greenbelt.

A meeting was held with the City of Long Beach on September 30, 2020 to discuss project updates and coordination related to the Hamilton Loop. The PDT also met with the City of Long Beach and District 9 Council Member Rex Richardson on October 26, 2020 to discuss additional project updates, the public outreach process, and City comments related to the Project, including landscape design, the aesthetics of proposed retaining or soundwalls, and coordination on irrigation, electrical layout, and Project features. A public information meeting was held between Metro and the City of Long Beach Hamilton Neighborhood Association on

December 16, 2020 to provide a Project update and keep the line of communication open between residents and project team members. Ongoing meetings are being held between Metro, Caltrans, Gateway Cities Council of Governments, and the City of Long Beach to coordinate on the Project, and this coordination will continue throughout the Project development process.

The proposed Project was submitted to SCAG's Transportation Conformity Working Group (TCWG) for review on September 22, 2020. The TCWG determined that the proposed Project is not considered a project of air quality concern (POAQC) for particulate matter (PM) because it does not meet the definition of a POAQC as defined in U.S. EPA's Transportation Conformity Guidance. The Project TCWG review forms submitted for interagency consultation is included in Appendix C of this report.

# Native American Consultation

An inquiry was submitted to the Native American Heritage Commission on May 30, 2019 to obtain a list of Native American Tribes. The Native American Heritage Commission responded on June 14, 2019 and provided the contact information for five Tribes:

- Gabrieleño Band of Mission Indians-Kizh Nation Andrew Salas
- Gabrieleno/Tongva San Gabriel Band of Mission Indians Anthony Morales
- Gabrielino/Tongva Nation Sandonne Goad
- Gabrielino Tongva Indians of California Tribal Council Robert Dorame
- Gabrielino-Tongva Tribe Charles Alvarez

Combined AB52/Section 106 consultation letters were sent on behalf of Caltrans on May 8, 2020, and follow-up occurred via email and phone calls on May 15, 2020. The following groups were contacted with combined AB52/Section 106 letters:

- Gabrieleño Band of Mission Indians-Kizh Nation Andrew Salas
- Gabrieleno/Tongva San Gabriel Band of Mission Indians Anthony Morales

Section 106 letters were sent on behalf of Caltrans on May 8, 2020, and follow-up occurred via email and phone on May 15, 2020. The following groups were contacted with Section 106 letters:

- Gabrielino/Tongva Nation Sandonne Goad
- Gabrielino Tongva Indians of California Tribal Council Robert Dorame
- Gabrielino-Tongva Tribe Charles Alvarez

As of June 23, 2020, responses have been received from Anthony Morales, Andrew Salas, and Robert Dorame. Their responses are below:

 On May 15, 2020, Mr. Morales expressed a concern for the Project's location near the Los Angeles River and the cultural significance the area holds for his people. He indicated that due to proximity to the Los Angeles River and Compton Creek the area is sensitive for Gabrielino sites. He also indicated that the discovery of human remains near the intersection of the SR-22 and the I-405 a few months ago seems like a similar situation with the elevated roadbed of the Project. He requested that Native American monitoring and Archaeological monitoring be undertaken during excavation.

- Between May 2019 and May 2020, the Gabrieleño Band of Mission Indians-Kizh Nation consulted nine separate times with Caltrans and/or DUKE CRM (the preparer of the Archaeological Survey Report), on behalf of Caltrans, including meetings, phone calls, and email. In summary, the Tribe has repeatedly maintained that the area is sensitive for cultural resources and recommended archaeological and Native American monitoring. The Tribe provided extensive information about the background of the Project Area, the history of the Los Cerritos land grant, various Native place-names, and the historic Gabrielino occupation and settlement of the area surrounding the Project.
- On May 15, 2020, Mr. Dorame requested and was emailed the consultation letter and maps. To follow up with Mr. Dorame, the consultation letter and map was emailed on June 17, 2020 and he was called later that day. Over the phone Mr. Dorame requested that in the event of the discovery of cultural material and burials from the Tongva people, that the Gabrielino Tongva Indians of California Tribal Council be notified, regardless of any finding about Most Likely Descendent decisions by the Native American Heritage Commission.

Further outreach to Mr. Morales was conducted on October 2, 2020 summarizing edits made to this document and stating that it is Caltrans' and Metro's intent to implement a limited monitoring program to be described in a Monitoring Plan. Mr. Morales has not responded.

Consultation with Gabrieleno Band of Mission Indians-Kizh Nation took place throughout the planning process. In a meeting held on July 9, 2019 with the Gabrieleno Band of Mission Indians-Kizh Nation, Chairperson Andrew Salas and Matthew Teutimez provided information about the prehistoric land use of the Project vicinity for consideration during this study. Mr. Salas and Mr. Teutimez shared that the Project location is between two known ethnohistoric villages: Tibahangna located about 2.5 miles to the south and Abahangna located about 7.2 miles to the north. They also stated a Jabonera (soap production facility) was situated within Rancho Los Cerritos, in the area of the Project, as well as another in the area of Abahangna. Mr. Teutimez explained that Jaboneras were historically established in areas containing resources available for soap production and, as would be expected, these resources were managed and used by local Native American communities prior to colonization. Such resources would have been part of a village's resource use area. For this reason, the locations of Jaboneras are good indicators of the locations of ancient village sites. Mr. Teutimez also stated that Artesia Boulevard to the south was an old trade route that ran in an east-west direction, and that the Los Angeles River was another north-south trending trade route. In addition to this information, Mr. Salas and Mr. Teutimez provided references to additional sources of information, including historic maps, news accounts of archaeological finds, and ethnographic studies. These sources were examined for this study, and only those relevant to the Study Area and vicinity have been included in this report.

In a follow-up meeting with the Tribe held on March 14, 2020, Mr. Teutimez pointed out that the Project was located along the meandering course of the Los Angeles River and that a Gabrieleno trade route traversed in a north-south direction along present-day Cherry Avenue. This route was the precursor to the Union Pacific Railroad that runs between Cherry and Paramount Avenues. The Tribe reiterated the fact that two ethnohistoric villages, *Tibahangna* and *Abahangna*, were located in the area of the Project.

In a final meeting on September 8, 2020, Caltrans staff reviewed all of the information provided by the Tribe and provided an overview of the results of the current archaeological investigation. Mr. Salas and Mr. Teutimez objected to the placement of village locations on the maps as these may give researchers the wrong impression that villages were contained within a small area. They also pointed out that boundaries of villages were fluid and encompassed resource procurement areas; so, a dot on a map does not capture the complexity and fluidity of Gabrieleno settlements. They requested that all maps showing village locations be removed from the report. Mr. Salas and Mr. Teutimez concluded the consultation by stating that the Project location is situated in the vicinity of three Gabrieleno travel routes that followed the present-day course of the Los Angeles River on the west, the San Gabriel River on the east, and Artesia Boulevard on the south. In addition, two ethnohistoric villages are known to have been located some distance to the north and south of the Project. This would place the Project's Area of Potential Effects at the center of a heavily trafficked area and, thus, it is an area of concern for the Tribe. For this reason, the Tribe requests archaeological and Native American monitoring to confirm that no cultural resources will be affected during Project construction.

Following this meeting, Caltrans staff confirmed with Mr. Salas and Mr. Teutimez via email (dated September 17, 2020) that a limited archaeological and Native American monitoring program will be prepared to outline the conditions and procedures for monitoring.

For a complete record of all consultation efforts, see Appendix C of this document.

# Air Quality Project Level Conformity Determination

On May 4, 2021, a request for project level conformity determination for this project was submitted to FHWA and on May 24, 2021, FHWA determined that the project-level transportation conformity requirements of 40 CFR Part 93 have been met. The FHWA Project Level Conformity Determination for this project is contained in Appendix E.

# Species Lists

Species lists were initially obtained from the NOAA Fisheries Service on January 1, 2019 and the USFWS on January 21, 2019. The species list obtained from NOAA Fisheries Service was then updated on December 3, 2020. The species list obtained from USFWS was then updated on October 10, 2019, February 24, 2020, and December 3, 2020. The species lists provide information about the threatened, endangered, and proposed species, designated critical habitat, and candidate species that may occur in the vicinity of a proposed project. The species lists provide by the NOAA Fisheries Service and USFWS are included in Appendix D.

# **Chapter 5 – List of Preparers**

The following Department staff and consultants contributed to the preparation of this Initial Study with Mitigated Negative Declaration/Environmental Assessment with Finding of No Significant Impact.

#### **Department Staff**

Ron Kosinski, Deputy District Director, Division of Environmental Planning,

Dawn Kukla-Montano, Supervising Environmental Planner.

Thoa Le, Senior Environmental Planner.

Alison Wong, Associate Environmental Planner. Lead Oversight Environmental Planner.

Vanessa Velasco, Associate Environmental Planner, NEPA QC Reviewer.

Janice Lu, Senior Transportation Engineer. Project Manager.

Joseph Reynoza, Senior Transportation Engineer. Design Manager.

Dawn Helou, Senior Transportation Engineer. Division of Traffic, Managed Lanes.

Chao Wei, Senior Transportation Engineer. Traffic Modelling.

Richard Hartzell, Senior Bridge Engineer. Headquarters Structures.

Mark Mai, Transportation Engineer. Transportation Review.

Susan Chau, P.E., Transportation Engineer. Transportation Review.

Sarah Horn, Senior Transportation Engineer. Traffic Operations, Corridor Management South.

Jin S. Lee, P.E., Branch Chief. Noise and Vibration Branch.

Roland Cerna, T.E., Noise Engineer. Noise and Vibration Branch.

Claudia Harbert, Senior Environmental Planner. Cultural Resources Unit.

Mariam Dahdul, Ph.D., Principal Investigator, Prehistoric Archaeology (PQS). Cultural Resources Unit.

Paul Caron, Senior District Biologist. Biological Resources Unit.

Michael Klima, Associate District Biologist. Biological Resources Unit.

Julio Rodriguez, Associate Environmental Planner. Construction Liaison.

Andrew Yoon, P.E., Senior Transportation Engineer. Office of Environmental Engineering - Air Quality Branch, Hazardous Waste Branch.

- Liberty San Agustin, Transportation Planner. Office of Environmental Engineering Air Quality Branch.
- Steven Friet, P.G., C.E.G, Engineering Geologist. Office of Environmental Engineering Hazardous Waste Branch, South.
- George Olguin, Caltrans District Landscape Architect. Office of Stormwater and Landscape Architecture, Southern Region Landscape Architecture.
- Ryohei Ota, Caltrans Landscape Architect. Office of Stormwater and Landscape Architecture, Southern Region Landscape Architecture.

#### Los Angeles County Metropolitan Transportation Authority (Metro)

Carlos Montez, Senior Director. Contribution: Environmental document oversight.

- Lucy Delgadillo, Senior Manager. Contribution: Environmental document oversight.
- Julio Perucho, Principal Transportation Planner. Contribution: Environmental document oversight.
- Lourdes Ortega, Principal Transportation Planner. Contribution: Environmental document oversight.

#### TranSystems

Camilo Rocha, Regional Senior Vice President. Contribution: Environmental document oversight.

#### TRC

Ehsan Tavassoli, P.E. Contribution: Environmental document oversight.

Gil Fry, P.G., Principal. Contribution: Initial Site Assessment.

Rachel Mireles, Environmental Compliance Engineer. Contribution: Initial Site Assessment.

#### **GPA Consulting**

- Richard Galvin, Principal Environmental Planner. Contribution: Environmental management oversight.
- Jeanne Ogar, Senior Environmental Planner. Contribution: Community Impact Assessment and environmental document preparation.
- Laura Comstock, Senior Environmental Planner. Contribution: Final environmental document preparation.
- Alen Estrada-Rodas, Associate Environmental Planner. Contribution: Environmental document preparation.

Allie Acuna, Associate Environmental Planner. Contribution: Community Impact Assessment.

- Danielle Thayer, Associate Environmental Planner. Contribution: Community Impact Assessment.
- Nicole Greenfield, Associate Environmental Planner. Contribution: Community Impact Assessment.
- Martin Rose, Senior Geographic Information Systems (GIS) Analyst. Contribution: GIS maps.
- Laura O'Neill, Senior Architectural Historian. Contribution: Cultural resource compliance documents.
- Elysha Paluszek, Associate Architectural Historian. Contribution: Cultural resource compliance documents.
- Adelina Munoz, Senior Biologist. Contribution: Natural Environment Study (Minimal Impacts).
- Katherine Warner, Associate Biologist. Contribution: Natural Environment Study (Minimal Impacts).

#### **AMBIENT Air Quality and Noise Consulting**

Kurt Legleiter, Principal. Contribution: Air Quality Report and Noise Study Report.

#### DUKE CRM

- Curt Duke, President/Archaeologist. Contribution: Cultural and paleontological resource compliance oversight.
- Nicholas F. Hearth, M.A. RPA, Principal Investigator, Prehistoric Archaeology. Contribution: Archaeological Survey Report.

Megan Wilson, Archaeologist. Contribution: Archaeological Survey Report.

Benjamin Scherzer. Contribution: Combined Paleontological Identification and Evaluation Report.

#### Geo-Advantec

- Shawn Arianna. Ph.D., P.E., G.E., Principal Geotechnical Engineer. Contribution: District Preliminary Geotechnical Report oversight.
- Ronald C. Hanson, Principal Engineering Geologist. Contribution: District Preliminary Geotechnical Report.

Yasmina Proa, Project Engineer. Contribution: District Preliminary Geotechnical Report.

#### **Intueor Consulting**

Farid S. Naguib, TE, Senior Manager of Transportation. Contribution: Traffic Operations Analysis Report.

# Iteris

Deepak Kaushik, P.E., Senior Engineer. Contribution: Traffic Volumes Report.

# **Tatsumi and Partners**

David Tatsumi, RLA, Project Landscape Architect. Contribution: Visual Impact Assessment.

# Chapter 6 – Distribution List

| Federal Highway Administration |  |
|--------------------------------|--|
| 1200 New Jersey Ave., SE       |  |
| Washington, DC 20590           |  |

# Federal and State Legislators

| The Honorable Dianne Feinstein          | The Honorable Alex Padilla         |
|-----------------------------------------|------------------------------------|
| United States Senator                   | United States Senator              |
| 11111 Santa Monica Boulevard, Suite 915 | B03 Russell Senate Office Building |
| Los Angeles, CA 90025                   | Washington, DC 20510               |
| The Honorable Lena A. Gonzalez          | The Honorable Steven Bradford      |
| State Senator, District 33              | State Senator, District 35         |
| 3939 Atlantic Avenue, Suite 107         | 1 Manchester Boulevard, Suite 160  |
| Long Beach, CA 90807                    | Inglewood, CA 90301                |
| The Honorable Mike A. Gipson            | The Honorable Anthony Rendon       |
| State Assembly 64th District            | State Assembly 63rd District       |
| 879 W. 190th Street Suite #920          | 4909 Lakewood Boulevard, Suite 400 |
| Gardena, CA 90248                       | Lakewood, CA 90712                 |
| The Honorable Nanette Barragan          |                                    |
| United States Congress                  |                                    |
| 2246 Rayburn House Office Building      |                                    |
| Washington, DC 20515                    |                                    |

#### **County Board of Supervisors**

| The Honorable Janice Hahn        |  |
|----------------------------------|--|
| Norwalk Field Office             |  |
| 12720 Norwalk Boulevard Room 704 |  |
| Norwalk, CA 90650                |  |

# **County Clerk Office**

| Los Angeles County Clerk |  |
|--------------------------|--|
| 2400 Imperial Highway    |  |
| Norwalk, CA 90650        |  |

# City Council

| The Honorable Rex Richardson, Councilman District 9         |  |
|-------------------------------------------------------------|--|
| 411 West Ocean Boulevard 11th Floor<br>Long Beach, CA 90802 |  |

# **Responsible Agencies**

| Los Angeles County Metropolitan | Gateway Cities Council of Governments |
|---------------------------------|---------------------------------------|
| Transportation Authority        | Maria Davila, President               |

| Phillip A. Washington, Chief Executive Officer | 16401 Paramount Boulevard |
|------------------------------------------------|---------------------------|
| One Gateway Plaza                              | Paramount, CA 90723       |
| Los Angeles, CA 90012-2952                     |                           |

## Local Planning Agencies

| Los Angeles County Department of Regional<br>Planning<br>Environmental Planning and<br>Sustainability Section<br>320 West Temple Street<br>Los Angeles, CA 90012 | Long Beach Development Services<br>City Hall<br>411 West Ocean Boulevard<br>Long Beach, CA 90802                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| City of Paramount Planning Division<br>City Hall<br>16400 Colorado Avenue<br>Paramount, CA 90723                                                                 | City of Compton Community Development<br>Department<br>City Hall<br>205 South Willowbrook Avenue<br>Compton, CA 90220 |

# Local Agency Formation Commission

| Local Agency Formation Commission for the |  |
|-------------------------------------------|--|
| County of Los Angeles                     |  |
| 80 South Lake Avenue, Suite 870           |  |
| Pasadena, CA 91101                        |  |

#### Local Transit Agency

| Long Reach Transit   |  |
|----------------------|--|
|                      |  |
| 1062 E Anghaim St    |  |
| 1903 E Ananein St    |  |
|                      |  |
| Long Beach, CA 90813 |  |
|                      |  |

# Local Areawide Clearinghouse

| Southern California Association of |  |
|------------------------------------|--|
| Governments                        |  |
| Intergovernmental Review Section   |  |
| 900 Wilshire Boulevard, Ste. 1700  |  |
| Los Angeles, CA 90017-3435         |  |

#### **Federal Agencies**

| Environmental Protection Agency, Region IX | Federal Transit Administration, Region IX |
|--------------------------------------------|-------------------------------------------|
| Federal Activities Office, CMD-2           | 201 Mission Street, Suite 1650            |
| 75 Hawthorne Street                        | San Francisco, CA 94105-1839              |
| San Francisco, CA 94105-3901               |                                           |
| Regional Director                          | Director                                  |
| Federal Emergency Management Agency        | Office of Environmental Policy and        |
| 1111 Broadway, Suite 1200                  | Compliance                                |
| Oakland, CA 94607-4052                     | Department of the Interior                |
|                                            | Main Interior Building, MS 2462           |

| 1849 "C" Street, NW  |
|----------------------|
| Washington, DC 20240 |

# Federal Agencies (Continued)

| Carlsbad Fish and Wildlife Office<br>6010 Hidden Valley Road | South West Regional Office:<br>National Marine Fisheries Services |
|--------------------------------------------------------------|-------------------------------------------------------------------|
| Carlsbad, CA 92009                                           | 501 West Ocean Boulevard.<br>Long Beach, CA 90802-4213            |
| Director, Office of Environmental                            | Director                                                          |
| Management                                                   | Office of Environmental Affairs                                   |
| U. S. Department of Energy                                   | Department of Health and Human Services                           |
| 1000 Independence Ave., SW                                   | 200 Independence Ave. SW, Rm. 537 F                               |
| Washington, DC 20585                                         | Washington, DC 20201                                              |
| Centers for Disease Control                                  | U.S. Army Corps of Engineers, Los Angeles                         |
| National Center for Environmental Health                     | District                                                          |
| 1600 Clifton Road                                            | Attention: CESPL-CO-R                                             |
| Atlanta, GA 30333                                            | 911 Wilshire Boulevard, Suite 1101                                |
|                                                              | P.O. Box 532711                                                   |
|                                                              | Los Angeles, CA 90053-2325                                        |
| G. Morgan Griffin, Regional Environmental                    | Natural Resources Conservation Service                            |
| Officer                                                      | Area Conservationist                                              |
| Department of Housing and Urban                              | Area 4                                                            |
| Development, Region 9                                        | 4500 Glenwood Drive, Building B                                   |
| One Sansome Street, Suite 1200                               | Riverside, CA 92501-3042                                          |
| San Francisco, CA 94104                                      |                                                                   |

# **State Agencies and Organizations**

| California Transportation Commission | Business Operations             |
|--------------------------------------|---------------------------------|
| Commission Chair                     | University of California        |
| 1120 N Street                        | 1111 Franklin St.               |
| Room 2221 (MS-52)                    | Oakland, CA 94607-5200          |
| Sacramento, CA 95814                 |                                 |
| California State University          | California Native Plant Society |
| Office of the Chancellor             | 2707 K Street, Suite 1          |
| 401 Golden Shore Boulevard           | Sacramento, CA 95816-5113       |
| Long Beach, CA 90802-4210            |                                 |
| California Wildlife Federation       | Sierra Club                     |
| 1012 J Street                        | 909 12th Street, #202           |
| Sacramento, CA 95814                 | Sacramento, CA 95814            |
| Museum of Vertebrate Zoology         | California Highway Patrol       |
| 3101 Valley Life Sciences Building   | 411 North Central Avenue        |
| Berkeley, CA 94720-3160              | Glendale, CA 91203              |

# Air Pollution Control Districts

| California Air Resources Board | South Coast Air Quality Management District |
|--------------------------------|---------------------------------------------|
| Mary D. Nichols, Chair         | Dr. William A. Burke, Chairman              |
| 1001 I Street                  | 21865 Copley Drive                          |

| Sacramento, CA 95814 | Diamond Bar, CA 91765 |
|----------------------|-----------------------|

#### Water District

| Metropolitan Water District of Southern |  |
|-----------------------------------------|--|
| California                              |  |
| Gloria D. Gray, Chairwoman              |  |
| P.O. Box 54153                          |  |
| Los Angeles, CA 90054-0153              |  |

#### **Utility Providers**

| Long Beach Energy Resources          | Long Beach Water                       |
|--------------------------------------|----------------------------------------|
| 2400 E Spring Street                 | 1800 E. Wardlow Road                   |
| Long Beach, CA 90806                 | Long Beach, CA 90807                   |
| Crown Castle                         | Southern California Edison             |
| 624 S Grand Avenue #2500             | 1325 S Grand Avenue                    |
| Los Angeles, CA 90017                | Santa Ana, CA 92705                    |
| Charter Communications (Spectrum)    | Frontier Communications                |
| 2310 N Bellflower Boulevard Unit 102 | 1605 Clark Avenue                      |
| Long Beach, CA 90815                 | Long Beach, CA 90815                   |
| Kinder Morgan                        | Los Angeles County Sanitation District |
| 20410 S Wilmington Avenue            | 1955 Workman Mill Road                 |
| Long Beach, CA 90810                 | Whittier, CA 90601                     |
| Plains All American Pipeline         |                                        |
| 5900 Cherry Avenue                   |                                        |
| Long Beach, CA 90805                 |                                        |

# Regional Water Quality Control Board

| Los Angeles Regional Water Quality Control |  |
|--------------------------------------------|--|
| Board – Region 4                           |  |
| Irma Muñoz, Chair                          |  |
| 320 West 4th Street, Suite 200             |  |
| Los Angeles, CA 90013                      |  |

# **City Emergency and Public Works Department**

| Long Beach Fire Department Station 12 | Long Beach Police – North Division |
|---------------------------------------|------------------------------------|
| 6509 Gundry Avenue                    | 4891 Atlantic Avenue               |
| Long Beach, CA 90805                  | Long Beach, CA 90807               |
| Long Beach Public Works Department    |                                    |
| 411 W. Ocean Boulevard                |                                    |
| Long Beach, CA 90802                  |                                    |

### **Local School District**

| Los Angeles Unified School District |  |
|-------------------------------------|--|
| Austin Beutner, Superintendent      |  |
| 333 South Beaudry Avenue            |  |
| Los Angeles, CA 90017               |  |

# Local Library

| Michelle Obama Neighborhood Library |  |
|-------------------------------------|--|
| 5870 Atlantic Avenue                |  |
| Long Beach, CA 90805                |  |

# Native American Tribal Representatives

| Gabrieleño Band of Mission Indians-Kizh | Gabrieleno/Tongva San Gabriel                  |
|-----------------------------------------|------------------------------------------------|
| Nation                                  | Band of Mission Indians                        |
| Andrew Salas, Chairperson               | Anthony Morales, Chairperson                   |
| P.O. Box 393                            | P.O. Box 693                                   |
| Covina, CA 91723                        | San Gabriel, CA 91778                          |
| Gabrielino/Tongva Nation                | Gabrielino Tongva Indians of California Tribal |
| Sandonne Goad, Chairperson              | Council Robert Dorame, Chairperson             |
| 106 1/2 Judge John Aiso Street, #231    | P.O. Box 490                                   |
| Los Angeles, CA, 90012                  | Bellflower, CA 90707                           |
| Gabrielino-Tongva Tribe                 |                                                |
| Charles Alvarez                         |                                                |
| 23454 Vanowen Street                    |                                                |
| West Hills, CA, 91307                   |                                                |

## **SCH Distribution**

| California State Clearinghouse      | Director                                   |  |  |  |
|-------------------------------------|--------------------------------------------|--|--|--|
| 1400 Tenth Street                   | Department of Water Resources              |  |  |  |
| Sacramento, CA 95814                | 1416 9th Street, Room 1115-1               |  |  |  |
|                                     | Sacramento, CA 94236-0001                  |  |  |  |
| Executive Officer                   | Director                                   |  |  |  |
| State Lands Commission              | State Department of Housing and            |  |  |  |
| 100 Howe Avenue, Suite 100          | Community Development                      |  |  |  |
| Sacramento, CA 95825                | 1800 Third Street                          |  |  |  |
|                                     | Sacramento, CA 95811-6942                  |  |  |  |
| Director                            | Director                                   |  |  |  |
| Department of Parks and Recreation  | California Department of Fish and Wildlife |  |  |  |
| 915 I Street, 5 <sup>th</sup> Floor | 1416 Ninth Street                          |  |  |  |
| Sacramento, CA 95814                | Sacramento, CA 95814                       |  |  |  |
| Director                            | Executive Officer                          |  |  |  |
| Department of Conservation          | State Water Resources Control Board        |  |  |  |
| 801 K Street, MS 24-01              | 1001 I Street                              |  |  |  |
| Sacramento, CA 95814                | Sacramento, CA 95814                       |  |  |  |
| Secretary                           | Department of Resources Recycling and      |  |  |  |
| Resources Agency                    | Recovery (CalRecycle)                      |  |  |  |
| 1416 Ninth Street                   | 1001 I Street                              |  |  |  |
| Sacramento, CA 95814                | P.O. Box 4025                              |  |  |  |
|                                     | Sacramento, CA 95812-4025                  |  |  |  |
| Executive Director                  | Executive Officer                          |  |  |  |

| Energy Commission    | State Air Resources Board |
|----------------------|---------------------------|
| 1516 Ninth Street    | 1001 I Street             |
| Sacramento, CA 95814 | P.O. Box 2815             |
|                      | Sacramento, CA 95812      |

# SCH Distribution (Continued)

| California Natural Resources Agency<br>1416 Ninth Street, Suite 1311<br>Sacramento, CA 95814 | Director<br>Department of Health Services<br>744 P Street |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------|
|                                                                                              | Sacramento, CA 95814                                      |
| California Department of Toxic Substances                                                    |                                                           |
| Control                                                                                      |                                                           |
| Chatsworth Regional Office                                                                   |                                                           |
| 9211 Oakdale Avenue                                                                          |                                                           |
| Chatsworth, CA 9131                                                                          |                                                           |

# **List of Technical Studies**

Air Quality Conformity Analysis, AMBIENT Air Quality and Noise Consulting

Air Quality Report, AMBIENT Air Quality and Noise Consulting

Archaeological Survey Report, DUKE CRM

Combined Paleontological Identification and Evaluation Report, DUKE CRM

Community Impact Assessment, GPA Consulting

District Preliminary Geotechnical Report, Geo-Advantec

Historic Property Survey Report, GPA Consulting

Initial Site Assessment, TRC

Natural Environment Study (Minimal Impacts), GPA Consulting

Noise Abatement Decision Report, TRC

Noise Study Report, AMBIENT Air Quality and Noise Consulting

PM Conformity Hot Spot Analysis Project Summary Form for Interagency Consultation, AMBIENT Air Quality and Noise Consulting

SB 743 – VMT based Transportation Impact Significance Determination, TRC

Traffic Management Plan, TRC

Traffic Operations Analysis Report, Intueor Consulting

Traffic Volumes Report, Iteris

Minor Level Visual Impact Assessment, Tatsumi and Partners

# References

# Chapter 2 – Affected Environment, Environmental Consequences, and Avoidance, Minimization, and/or Mitigation Measures

- California Department of Housing and Community Development. 2017. "State Income Limits for 2017." https://www.hcd.ca.gov/grants-funding/income-limits/state-and-federal-income-limits/docs/inc2k17.pdf.
- California Water Boards. (2018b). Los Angeles River Watershed. Retrieved from State Water Resources Control Board: https://www.waterboards.ca.gov/losangeles/water\_issues/programs/regional\_program/W ater\_Quality\_and\_Watersheds/los\_angeles\_river\_watershed/LA\_River\_Watershed.pdf
- Caltrans. (2005, June). *Guidance for Preparers of Cumulative Impact Analysis* (2005). Retrieved from https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/ser/approach-and-guidance-a11y.pdf
- City of Long Beach. (2017, February). *Bicycle Master Plan 2040, Clty of Long Beach.* Retrieved from http://longbeach.gov/globalassets/pw/media-library/documents/resources/general/bicycle-master-plan/bicycle\_master\_plan

City of Long Beach. (2018). Uptown Open Space Vision Plan. Long Beach: City Fabrick.

Council on Environmental Quality. 1997. "Environmental Justice Guidance under the National Environmental Policy Act Appendix A."

Federal Interagency Working group on Environmental Justice and NEPA Committee. 2016. "Promising Practices for EJ Methodologies in NEPA Reviews." https://www.fws.gov/environmentaljustice/pdfs/nepa\_promising\_practices\_document\_2016.pdf.

- Federal Transit Administration. (2018, September). *Transit Noise and Vibration Impact Manual*. Retrieved from https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/researchinnovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123\_0.pdf
- United States Census Bureau. 2017. 2013-2017 American Community Survey 5-year Estimates. Accessed March 30, 2021. https://data.census.gov/cedsci/
- U.S. Department of Health & Human Services. (2017, January 31). 2017 Poverty Guidelines. Retrieved from Office of the Assistant Secretary for Planning and Evaluation: https://aspe.hhs.gov/2017-poverty-guidelines
- United States Department of Agriculture. (2003). *Introduced, Invasive, and Noxious Plants*. Retrieved from Natural Resources Conservation Service: https://plants.usda.gov/java/noxious?rptType=State&statefips=06

## Chapter 3 – California Environmental Quality Act (CEQA) Evaluation

- Barth, Matthew and Kanok Boriboonsomsin. 2010. Real-World Carbon Dioxide Impacts of Traffic Congestion. Berkeley, CA: University of California Transportation Center. UCTC-FR-2010-11. Available: https://www.researchgate.net/publication/46438207.
- CAL FIRE. (2007, November 7). *Fire Hazard Severity Zones in SRA, Los Angeles County*. Retrieved December 19, 2019, from Fire Hazard Severity Zones Maps: https://osfm.fire.ca.gov/media/6705/fhszs\_map19.pdf
- California Air Resources Board (ARB). 2008. *Climate Change Scoping Plan Appendices. Volume II: Analysis and Documentation*. Appendix I, p. I-19. December. Available: https://ww3.arb.ca.gov/cc/scopingplan/document/scopingplandocument.htm. Accessed: October 31, 2019.
- California Air Resources Board (ARB). 2019a. California Greenhouse Gas Emissions Inventory– 2019 Edition. https://ww3.arb.ca.gov/cc/inventory/data/data.htm. Accessed: August 21, 2019.
- California Air Resources Board (ARB). 2019b. California Greenhouse Gas Emissions for 2000 to 2017. Trends of Emissions and Other Indicators. https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000\_2017/ghg\_inventory\_trends\_00-17.pdf. Accessed: August 21, 2019.
- California Air Resources Board (ARB). 2019c. SB 375 Regional Plan Climate Targets. https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regionalplan-targets. Accessed: August 21, 2019.
- California Department of Transportation. 2019. *Caltrans Climate Change Vulnerability* Assessments. District 7 Technical Report. December. Prepared by WSP.
- Federal Highway Administration (FHWA). 2019. Sustainability. https://www.fhwa.dot.gov/environment/sustainability/resilience/. Last updated February 7, 2019. Accessed: August 21, 2019.
- Federal Highway Administration (FHWA). No date. Sustainable Highways Initiative. https://www.sustainablehighways.dot.gov/overview.aspx. Accessed: August 21, 2019.
- State of California. 2018. California's Fourth Climate Change Assessment. http://www.climateassessment.ca.gov/. Accessed: August 21, 2019.
- State of California. 2019. California Climate Strategy. https://www.climatechange.ca.gov/. Accessed: August 21, 2019.
- U.S. Department of Transportation (U.S. DOT). 2011. Policy Statement on Climate Change Adaptation. June. https://www.fhwa.dot.gov/environment/sustainability/resilience/policy\_and\_guidance/usd ot.cfm. Accessed: August 21, 2019.

- U.S. Department of Transportation (U.S. DOT). 2018. *National Highway Traffic Safety Administration Corporate Average Fuel Economy*. https://www.nhtsa.gov/lawsregulations/corporate-average-fuel-economy. Accessed: August 21,2019.
- U.S. Environmental Protection Agency (U.S. EPA). 2009. Endangerment and Cause or Contribute Findings for Greenhouse Gases under the Section 202(a) of the Clean Air Act. https://www.epa.gov/ghgemissions/endangerment-and-cause-or-contribute-findingsgreenhouse-gases-under-section-202a-clean. Accessed: August 21, 2019.
- U.S. Environmental Protection Agency (U.S. EPA). 2018. Inventory of U.S. Greenhouse Gas Emissions and Sinks. https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gasemissions-and-sinks. Accessed: August 21, 2019.
- U.S. Global Change Research Program (USGCRP). 2018. Fourth National Climate Assessment. https://nca2018.globalchange.gov/. Accessed: August 21, 2019.

In order to be sure that all of the environmental measures identified in this document are executed at the appropriate times, the following mitigation program (as articulated on the proposed Environmental Commitments Record [ECR] which follows) would be implemented. During project design, avoidance, minimization, and /or mitigation measures will be incorporated into the Project's final plans, specifications, and cost estimates, as appropriate. All permits will be obtained prior to implementation of the Project. During construction, environmental and construction/engineering staff will ensure that the commitments contained in this ECR are fulfilled. Following construction and appropriate phases of project delivery, long-term mitigation maintenance and monitoring will take place, as applicable. As the following ECR is a draft, some fields have not been completed, and will be filled out as each of the measures is implemented. Note: Some measures may apply to more than one resource area. Duplicative or redundant measures have not been included in this ECR. Additional provisions may be included (as necessary) in the special provisions of the construction contract.

| Category                        | Task and Brief Description                                                                                                                                                                                                                                                            | Source                    | Responsible<br>Staff | Implementation<br>Phase/Timing | CEQA<br>Mitigation           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|--------------------------------|------------------------------|
| Environmental Justice           | <b>PF-COM-4:</b> During the development of<br>Final Design (PS&E) Caltrans & Metro<br>will consider and incorporate measures<br>that support equity, environmental<br>justice and community values by<br>minimizing construction impacts to<br>those who may be directly impacted.    | Environmental<br>Document | Project Manager      | PS&E                           | No (Project<br>Feature [PF]) |
| Utilities/Emergency<br>Services | <b>PF-COM-1</b> : Prior to construction, Metro<br>will coordinate with and notify impacted<br>community facilities owners (e.g.,<br>medical facilities, churches, and<br>educational facilities and districts) to<br>ensure access is maintained at all times<br>during construction. | Environmental<br>Document | Project Manager      | Pre-construction               | No (PF)                      |
| Utilities/Emergency<br>Services | <b>PF-ES-1</b> : Prior to construction, Metro<br>would coordinate with local emergency<br>service providers and communicate<br>with the surrounding community to<br>minimize service delays and disruptions<br>during construction.                                                   | Environmental<br>Document | Project Manager      | Pre-construction               | No (PF)                      |

| Category                                                           | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Source                    | Responsible<br>Staff                           | Implementation<br>Phase/Timing | CEQA<br>Mitigation                                           |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------|--------------------------------|--------------------------------------------------------------|
| Traffic and<br>Transportation/Pedestrian<br>and Bicycle Facilities | <b>PF-COM-2</b> : Prepare a Traffic<br>Management Plan and Traffic Handling<br>Plan. The Traffic Management Plan<br>would include a Public Awareness<br>Campaign.                                                                                                                                                                                                                                                                                                                                                                                                  | Environmental<br>Document | Project Manager                                | PS&E                           | No (PF)                                                      |
| Traffic and<br>Transportation/Pedestrian<br>and Bicycle Facilities | <b>PF-COM-3</b> : Prepare a Construction<br>Staging Plan. The Construction Staging<br>Plan would detail efforts to modify<br>construction staging to expedite<br>construction and minimize exposure<br>time to adjacent residents.                                                                                                                                                                                                                                                                                                                                 | Environmental<br>Document | Project Manager                                | PS&E                           | No (PF)                                                      |
| Traffic and<br>Transportation/Pedestrian<br>and Bicycle Facilities | <b>PF-TR-1</b> : Prior to construction, Metro<br>will coordinate with public transportation<br>agencies (Long Beach Transit and<br>Metro bus service) to provide rerouting<br>information, including operating<br>schedules, to the public at least one<br>month in advance of any service<br>disruptions.                                                                                                                                                                                                                                                         | Environmental<br>Document | Project Manager                                | Pre-construction               | No (PF)                                                      |
| Visual/Aesthetics                                                  | <b>AVM-VIS-1</b> : Soundwalls, retaining<br>walls, and other structures may receive<br>aesthetic treatments, which would be<br>consistent with applicable aesthetic<br>corridor plans. Pilasters may be added<br>to soundwalls and places where<br>deemed necessary by engineers.<br>However, final aesthetics will adhere to<br>guidelines to be determined by the<br>State Route 91 Aesthetics Master Plan<br>Committee with concurrence by<br>Caltrans, Metro, the City of Long<br>Beach, and local communities during<br>the construction documentation phase. | Environmental<br>Document | Landscape<br>Architect<br>Resident<br>Engineer | PS&E,<br>Construction          | No<br>(Avoidance<br>and<br>Minimization<br>Measure<br>[AVM]) |
| Visual/Aesthetics                                                  | <b>AVM-VIS-2</b> : Where feasible, drought tolerant trees, shrubs, and groundcover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Environmental<br>Document | Landscape<br>Architect                         | PS&E,<br>Construction          | No (AVM)                                                     |

| Category           | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Source                    | Responsible<br>Staff | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|--------------------------------|--------------------|
|                    | will be incorporated within the Project<br>right of way to help improve the overall<br>visual quality of this area. These<br>landscape concepts include CO2<br>sequestering elements to help contain<br>and reduce CO2 emissions. The plant<br>palette will be developed in consultation<br>with a Caltrans landscape architect.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           | Resident<br>Engineer |                                |                    |
| Cultural Resources | <b>PF-CUL-1</b> : If cultural materials are<br>discovered during construction, all<br>earth-moving activity within and around<br>the immediate discovery area will be<br>diverted until a qualified archaeologist<br>can assess the nature and significance<br>of the find.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Environmental<br>Document | Resident<br>Engineer | Construction                   | No (PF)            |
| Cultural Resources | <b>PF-CUL-2</b> : If human remains are<br>discovered, California Health and<br>Safety Code (H&SC) Section 7050.5<br>states that further disturbances and<br>activities shall stop in any area or<br>nearby area suspected to overlie<br>remains, and the County Coroner<br>contacted. If the remains are thought by<br>the coroner to be Native American, the<br>coroner will notify the Native American<br>Heritage Commission, who, pursuant to<br>PRC Section 5097.98, will then notify<br>the Most Likely Descendent. At this<br>time, the person who discovered the<br>remains will contact Claudia Harbert,<br>Caltrans District 7 Cultural Resources<br>Environmental Branch Chief, so that<br>they may work with the Most Likely<br>Descendent on the respectful treatment<br>and disposition of the remains. Further | Environmental<br>Document | Resident<br>Engineer | Construction                   | No (PF)            |

| Category                                | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Source                    | Responsible<br>Staff                                | Implementation<br>Phase/Timing    | CEQA<br>Mitigation |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------|-----------------------------------|--------------------|
|                                         | provisions of PRC 5097.98 are to be followed as applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                                                     |                                   |                    |
| Cultural Resources                      | <b>PF-CUL-3</b> : Metro will implement a limited archaeological and Native American monitoring program with interested Tribes as detailed in the Archaeological and Native American Monitoring Plan prior to and during Project construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Environmental<br>Document | Resident<br>Engineer<br>Cultural<br>Resources Unit  | Pre-construction,<br>Construction | No (PF)            |
| Water Quality and Storm<br>Water Runoff | <ul> <li><b>PF-WQ-1</b>: During construction,<br/>Caltrans' Resident Engineer or<br/>designated contractor will ensure that<br/>all applicable construction site Best<br/>Management Practices follow the latest<br/>edition of the Caltrans Construction Site<br/>Best Management Practice Manual to<br/>address temporary impacts associated<br/>with Project construction, including<br/>those associated with waste<br/>management, non-storm water<br/>management, tracking controls, and<br/>other Best Management Practices as<br/>applicable. In addition to applicable<br/>Best Management Practices in the<br/>Caltrans Construction Site Best<br/>Management Practice Manual, the<br/>following measures will also be<br/>implemented:</li> <li>Good housekeeping</li> <li>Erosion control</li> <li>Sediment control</li> </ul> | Environmental<br>Document | Resident<br>Engineer or<br>Designated<br>Contractor | Construction                      | No (PF)            |
| Water Quality and Storm<br>Water Runoff | <b>PF-WQ-2</b> : During construction,<br>Caltrans' Resident Engineer or<br>designated contractor will ensure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Environmental<br>Document | Resident<br>Engineer or                             | Construction                      | No (PF)            |
| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Source | Responsible<br>Staff     | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------|--------------------------------|--------------------|
|          | compliance with the provision of the<br>National Pollutant Discharge<br>Elimination System General Permit for<br>Stormwater Discharges Associated with<br>Construction and Land Disturbance<br>Activities (Construction General Permit)<br>(Order No. 2009-0009-DWQ, National<br>Pollutant Discharge Elimination System<br>No. CAS000002 as amended by Order<br>No. 2010-0014-DWQ and Order No.<br>2012-0006-DWQ) and any subsequent<br>amendment or renewal, as they relate<br>to construction activities for the Project.<br>This will include submission of the<br>Permit Registration Documents,<br>including a Notice of Intent, risk<br>assessment, site map, Storm Water<br>Pollution Prevention Plan, annual fee,<br>and signed certification statement to the<br>State Water Resources Control Board<br>via the Stormwater Multi-Application<br>and Report Tracking System at least<br>seven days prior to the start of<br>construction. Construction activities will<br>not commence until a Waste<br>Discharger Identification number is<br>received from the Stormwater Multi-<br>Application and Report Tracking<br>System. The Storm Water Pollution<br>Prevention Plan will be prepared by a<br>qualified Storm Water Pollution<br>Prevention Plan developer and will<br>meet the requirements of the<br>Construction General Permit:<br>I Identifying potential pollutant<br>sources associated with<br>construction activities: |        | Designated<br>Contractor |                                | Mitigation         |

| Category                                | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Source                    | Responsible<br>Staff | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|--------------------------------|--------------------|
|                                         | <ul> <li>Identifying non-storm water<br/>discharges;</li> <li>Developing a water quality<br/>monitoring and sampling plan;</li> <li>Implementing and maintaining Best<br/>Management Practices to reduce<br/>or eliminate pollutants associated<br/>with construction sites.</li> </ul>                                                                                                                                                                                                                                                                    |                           |                      |                                |                    |
| Water Quality and Storm<br>Water Runoff | <b>PF-WQ-3</b> : Existing permanent Design<br>Pollution Prevention and treatment Best<br>Management Practices will be<br>protected in place or replaced in-kind to<br>minimize downstream effects, stabilize<br>slopes, control runoff, and treat water<br>quality volume generated from new<br>impervious surface area.                                                                                                                                                                                                                                   | Environmental<br>Document | Project Manager      | PS&E,<br>Construction          | No (PF)            |
| Water Quality and Storm<br>Water Runoff | <b>PF-WQ-4</b> : Procedures in the Caltrans<br>Stormwater Quality Handbooks, Project<br>Planning and Design Guide will be<br>followed for maintaining existing<br>treatment Best Management Practices<br>(gross solids removal devices) to the<br>Maximum Extent Practicable.<br>Additionally, all treatment Best<br>Management Practices will be<br>consistent with the requirements of<br>applicable permits, including the<br>Caltrans municipal separate storm<br>sewer systems permit, and will be<br>inspected/monitored to ensure<br>effectiveness. | Environmental<br>Document | Resident<br>Engineer | Construction                   | No (PF)            |
| Geology/Soils/Seismic/<br>Topography    | <b>PF-GEO-1</b> : All finished slopes will be planted with non-water succulent plants as soon as practical after grading.                                                                                                                                                                                                                                                                                                                                                                                                                                  | Environmental<br>Document | Resident<br>Engineer | Construction                   | No (PF)            |
| Geology/Soils/Seismic/<br>Topography    | <b>PF-GEO-2</b> : During construction, the Resident Engineer will ensure that safe                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Environmental<br>Document | Resident<br>Engineer | Construction                   | No (PF)            |

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI

| Category                             | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Source                    | Responsible<br>Staff                                        | Implementation<br>Phase/Timing | CEQA<br>Mitigation                     |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------|--------------------------------|----------------------------------------|
|                                      | work practices in accordance with<br>Caltrans and Cal/OSHA are<br>implemented to mitigate the risk to<br>workers. This includes sloping and/or<br>shoring of excavations to prevent<br>collapse of unstable soils. Sloping<br>and/or shoring of excavations would be<br>constructed in accordance with<br>Caltrans Shoring Manual, Cal/OSHA,<br>and any local standards.                                                                                                                                                                                                                                                                                                                                                      |                           |                                                             |                                |                                        |
| Geology/Soils/Seismic/<br>Topography | <b>PF-GEO-3</b> : During final design, the geotechnical engineer and/or engineering geologist will prepare a quality assurance/quality control plan that will be implemented during construction. The quality assurance/quality control plan is a document that would include requirements for observation, monitoring, and testing by a geotechnical engineer and/or engineering geologist during construction to confirm that geotechnical/geologic recommendations are followed, or if different site conditions are encountered, ensure appropriate changes are made to accommodate such issues. The geotechnical engineer will prepare field observation reports while grading and construction activities are underway. | Environmental<br>Document | Geotechnical<br>Engineer and/or<br>Engineering<br>Geologist | PS&E                           | No (PF)                                |
| Paleontology                         | <b>MM-PALEO-1</b> : A Paleontological<br>Mitigation Plan, following the Caltrans<br>SER, Chapter 8, will be prepared by a<br>Principal Paleontologist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Environmental<br>Document | Project Manager<br>Principal<br>Paleontologist              | Pre-construction               | Yes<br>(Mitigation<br>Measure<br>[MM]) |

| Category     | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Source                    | Responsible<br>Staff                           | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |                                                |                                |                    |
| Paleontology | <b>MM-PALEO-2</b> : The Principal<br>Paleontologist will attend the pre grade<br>conference. At this meeting, the<br>Paleontologist will explain the likelihood<br>for encountering paleontological<br>resources, what resources may be<br>discovered, and the methods of<br>recovery that will be employed.                                                                                                                                                                                                                                                                                                                                                                                                                               | Environmental<br>Document | Project Manager<br>Principal<br>Paleontologist | Pre-construction               | Yes (MM)           |
| Paleontology | <b>MM-PALEO-3</b> : During construction<br>excavation, a qualified Paleontological<br>Monitor shall be present on a full-time<br>basis initially whenever excavation will<br>occur within the sediments that have a<br>high paleontological sensitivity (greater<br>than 5 feet below the original ground<br>surface) and on a spot-check basis for<br>excavation in sediments that have low<br>sensitivity (non-fill sediment above 5<br>feet below the ground surface (bgs)).<br>Monitoring may be reduced to a part-<br>time basis if no resources are being<br>discovered in sediments with a high<br>sensitivity rating (monitoring reductions,<br>when they occur, will be determined by<br>the qualified Principal Paleontologist). | Environmental<br>Document | Project Manager<br>Paleontological<br>Monitor  | Construction                   | Yes (MM)           |
| Paleontology | <b>MM-PALEO-4</b> : The Monitor shall<br>inspect fresh cuts and/or spoils piles to<br>recover paleontological resources. The<br>monitor shall be empowered to<br>temporarily divert construction<br>equipment away from the immediate<br>area of the discovery. The monitor shall<br>be equipped to rapidly stabilize and<br>remove fossils to avoid prolonged<br>delays to construction schedules. If                                                                                                                                                                                                                                                                                                                                     | Environmental<br>Document | Project Manager<br>Paleontological<br>Monitor  | Construction                   | Yes (MM)           |

| Category     | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Source                    | Responsible<br>Staff                          | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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|              | large mammal fossils or large<br>concentrations of fossils are<br>encountered, Caltrans will consider<br>using heavy equipment on site to assist<br>in the removal and collection of large<br>materials. Localized concentrations of<br>small (or micro-) vertebrates may be<br>found in all native sediments.<br>Therefore, it is recommended that<br>these sediments occasionally be spot-<br>screened on site through 1/8 - to 1/20-<br>inch mesh screens to determine<br>whether microfossils are present. If<br>microfossils are encountered, sediment<br>samples (up to 6,000 pounds) shall be<br>collected and processed through 1/20-<br>inch mesh screens to recover additional<br>fossils. |                           |                                               |                                |                    |
| Paleontology | <b>MM-PALEO-5</b> : Recovered specimens<br>shall be prepared to the point of<br>identification and permanent<br>preservation. This includes the sorting<br>of any washed mass samples to<br>recover small invertebrate and<br>vertebrate fossils, the removal of<br>surplus sediment from around larger<br>specimens to reduce the volume of<br>storage for the repository and storage<br>cost, and the addition of approved<br>chemical hardeners/stabilizers to fragile<br>specimens.                                                                                                                                                                                                              | Environmental<br>Document | Project Manager<br>Paleontological<br>Monitor | Construction                   | Yes (MM)           |
| Paleontology | <b>MM-PALEO-6</b> : Specimens shall be<br>identified to the lowest taxonomic level<br>possible and curated into an<br>institutional repository with retrievable<br>storage. The repository institutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Environmental<br>Document | Project Manager<br>Paleontological<br>Monitor | Construction                   | Yes (MM)           |

| Category                     | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                           | Source                    | Responsible<br>Staff                          | Implementation<br>Phase/Timing     | CEQA<br>Mitigation |
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|                              | usually charge a one-time fee based on<br>volume, so removing surplus sediment<br>is important. The repository institution<br>may be a local museum or university<br>with a curator who can retrieve the<br>specimens on request. Caltrans<br>requires that a draft curation agreement<br>be in place with an approved curation<br>facility prior to the initiation of any<br>paleontological monitoring or mitigation<br>activities |                           |                                               |                                    |                    |
| Paleontology                 | <b>MM-PALEO-7</b> : A Paleontological<br>Mitigation Report documenting<br>completion of the Paleontological<br>Mitigation Plan for the Lead Agency<br>(Caltrans) will be prepared and<br>submitted.                                                                                                                                                                                                                                  | Environmental<br>Document | Project Manager<br>Paleontological<br>Monitor | Construction,<br>Post-construction | Yes (MM)           |
| Hazardous<br>Waste/Materials | <b>AVM-HW-1</b> : A subsurface investigation<br>would be required during the design<br>phase to confirm the depth to<br>groundwater is between 10 to 15 feet,<br>as well to determine actual groundwater<br>flow direction, if needed. If groundwater<br>is encountered at this time, additional<br>sampling and analysis of the<br>groundwater would be warranted to<br>ensure worker safety and for waste<br>profiling purposes.   | Environmental<br>Document | Project Manager<br>Hazardous<br>Waste Unit    | PS&E                               | No (AVM)           |
| Hazardous<br>Waste/Materials | <b>AVM-HW-2</b> : A soil site investigation (SI) for aerial deposits of lead (ADL) and organochlorine pesticides would be conducted to the maximum lateral and vertical extent of proposed soil excavation for all unpaved areas, including roadway improvements,                                                                                                                                                                    | Environmental<br>Document | Project Manager<br>Hazardous<br>Waste Unit    | PS&E                               | No (AVM)           |

| Category                     | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                 | Source                    | Responsible<br>Staff                          | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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|                              | retaining walls and soundwalls,<br>overhead signs and traffic signs. This<br>shall be done during the design phase.                                                                                                                                                                                                                                                                                        |                           |                                               |                                |                    |
| Hazardous<br>Waste/Materials | <b>AVM-HW-3</b> : Asbestos-Containing<br>Material (ACM) and Lead Based Paint<br>(LBP) surveys should be conducted for<br>the 4 bridges within the Project Area<br>during the design phase. ACM and LBP<br>surveys would also be conducted for<br>retaining walls and soundwalls<br>connected to retaining walls or other<br>structures. Freestanding soundwalls do<br>not require ACM or LBP studies.      | Environmental<br>Document | Project Manager<br>Hazardous<br>Waste Unit    | PS&E                           | No (AVM)           |
| Hazardous<br>Waste/Materials | <b>AVM-HW-4</b> : It is assumed that the<br>removal of pavement markings and<br>treated wood will produce hazardous<br>waste. Removal plans for both lead<br>based paint (such as in yellow<br>thermoplastic striping) and treated<br>wood waste will be determined during<br>the design phase.                                                                                                            | Environmental<br>Document | Project Manager<br>Hazardous<br>Waste Unit    | PS&E                           | No (AVM)           |
| Air Quality                  | <ul> <li><b>PF-AQ-1</b>: The construction contractor must comply with the Caltrans' Standard Specifications in Section 14-9 (2018).</li> <li>Section 14-9-02 specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.</li> </ul> | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality                  | <b>PF-AQ-2</b> : Water or a dust palliative will be applied to the site and equipment as                                                                                                                                                                                                                                                                                                                   | Environmental<br>Document | Project Manager                               | Construction                   | No (PF)            |

| Category    | Task and Brief Description                                                                                                                                                                                                                                                                                                | Source                    | Responsible<br>Staff                          | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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|             | often as necessary to control fugitive dust emissions.                                                                                                                                                                                                                                                                    |                           | Construction<br>Contractor                    |                                |                    |
| Air Quality | <b>PF-AQ-3</b> : Soil binder will be spread on<br>any unpaved roads used for<br>construction purposes, and on all<br>project construction parking areas.                                                                                                                                                                  | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-4</b> : Trucks will be washed as<br>they leave the right of way, as<br>necessary, sufficient to prevent track-<br>out of material onto paved surfaces for<br>the purposes of controlling fugitive dust<br>emissions. Other measures, such as<br>the use of track-out devices or gavel<br>pads, may also be used. | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-5</b> : Construction equipment and vehicles will be properly tuned and maintained. All construction equipment will use low sulfur fuel as required by the CA Code of Regulations Title 17, Section 93114.                                                                                                        | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-6</b> : A dust control plan will be<br>developed documenting sprinkling,<br>temporary paving, speed limits, and<br>timely re-vegetation of disturbed slopes<br>as needed to minimize construction<br>impacts to existing communities.                                                                            | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-7</b> : Equipment and materials storage sites will be located as far away from residential and park uses as practicable. Construction areas will be kept clean and orderly.                                                                                                                                      | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |

| Category    | Task and Brief Description                                                                                                                                                                                                                                                         | Source                    | Responsible<br>Staff                          | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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| Air Quality | <b>PF-AQ-8</b> : Construction activities<br>involving the extended idling of diesel<br>equipment or vehicles will be limited<br>near air sensitive receptors to the<br>extent feasible.                                                                                            | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-9</b> : Track-out reduction<br>measures, such as gravel pads at<br>project access points to minimize dust<br>and mud deposits on roads affected by<br>construction traffic, will be used.                                                                                 | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-10</b> : All transported loads of soils<br>and wet materials will be covered<br>before transport, or adequate freeboard<br>(space from the top of the material to<br>the top of the truck) will be provided to<br>minimize the emission of dust during<br>transportation. | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-11</b> : Dust and mud that are deposited on paved, public roads due to construction activity and traffic will be promptly and regularly removed to reduce PM emissions.                                                                                                   | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-12</b> : To the extent feasible,<br>construction traffic will be scheduled<br>and routed to reduce congestion and<br>related air quality impacts caused by<br>idling vehicles along local roads during<br>peak travel times.                                              | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Air Quality | <b>PF-AQ-13</b> : Mulch will be installed, or vegetation planted as soon as practicable after grading to reduce windblown PM in the area.                                                                                                                                          | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |

| Category    | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Source                    | Responsible<br>Staff                          | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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| Air Quality | <b>PF-AQ-14</b> : South Coast Air Quality<br>Management District (SCAQMD) Rule<br>403 – Fugitive Dust. Construction<br>activity sources are required to<br>implement best available control<br>measures for the control of fugitive<br>dust.                                                                                                                                                                                                                                                                                                                                                        | Environmental<br>Document | Project Manager<br>Construction<br>Contractor | Construction                   | No (PF)            |
| Noise       | <b>PF-NOI-1</b> : Sound control will conform to<br>the provisions in Section 14-8.02, Noise<br>Control, of the Caltrans Standard<br>Specifications. According to<br>requirements of these specifications,<br>construction noise cannot exceed 86<br>dBA L <sub>max</sub> at 50 feet from the job site<br>activities from 9:00 p.m. to 6:00 a.m.                                                                                                                                                                                                                                                     | Environmental<br>Document | Project Manager<br>Noise Unit                 | Construction                   | No (PF)            |
| Noise       | <b>PF-NOI-2</b> : All equipment will have<br>sound-control devices no less effective<br>than those provided on the original<br>equipment. Each internal combustion<br>engine used for any purpose on the job<br>or related to the job will be equipped<br>with a muffler of a type recommended<br>by the manufacturer. No internal<br>combustion engine will be operated on<br>the job site without an appropriate<br>muffler. Additionally, construction<br>methods or equipment that will provide<br>the lowest level of noise impact will be<br>used and idling equipment will be<br>turned off. | Environmental<br>Document | Project Manager<br>Noise Unit                 | Construction                   | No (PF)            |
| Noise       | <b>PF-NOI-3</b> : Existing noise barrier, EXB-2, would be demolished due to roadway and bridge widening as part of the Project implementation. This existing noise barrier would be replaced in-kind (length and height), at minimum.                                                                                                                                                                                                                                                                                                                                                               | Environmental<br>Document | Project Manager<br>Noise Unit                 | PS&E,<br>Construction          | No (PF)            |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Source                    | Responsible<br>Staff          | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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| Noise    | AVM-NOI-1: Demolition of the existing<br>noise barrier and construction of the<br>proposed noise barrier on top of the<br>retaining wall would be conducted in<br>four segments along the Project Area to<br>minimize traffic noise impacts on<br>nearby residences. Construction within<br>each segment would include<br>demolishing the existing barrier,<br>constructing the retaining wall, and then<br>constructing the proposed noise barrier.<br>When a certain section of noise barrier<br>is removed, the work immediately<br>following the demolition would be the<br>construction of the new proposed<br>retaining wall and proposed noise<br>barrier.                                                              | Environmental<br>Document | Project Manager<br>Noise Unit | Construction                   | No (AVM)           |
| Noise    | <ul> <li>AVM-NOI-2: Though construction noise<br/>and vibration would be temporary and<br/>sporadic and would not present any long-<br/>term impacts, the following practices<br/>would reduce noise and vibration level<br/>increases produced by Project<br/>construction equipment at nearby noise-<br/>sensitive residential land uses:</li> <li>Construction activities shall comply<br/>with the Long Beach Municipal<br/>Code, which states that<br/>construction activities shall only<br/>occur on weekdays from 7:00<br/>a.am. to 7:00 p.m. and Saturdays<br/>from 9:00 a.m. to 6:00 p.m.,</li> <li>Property owners and occupants<br/>located within 200 feet of the<br/>Project boundary shall be sent a</li> </ul> | Environmental<br>Document | Project Manager<br>Noise Unit | Construction                   | No (AVM)           |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Source | Responsible<br>Staff | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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|          | <ul> <li>notice, at least 15 days prior to commencement of construction of each phase, regarding the construction schedule of the proposed project. A sign, legible at 50 feet shall also be posted at the Project construction site. All notices and signs shall be reviewed and approved by Caltrans, prior to mailing or posting and shall indicate the dates and duration of construction activities, as well as provide a contact name and a telephone number where residents can inquire about the construction process and register complaints.</li> <li>Construction noise reduction methods shall be implemented, such as: <ul> <li>Replacing worn, loose, or unbalanced machine parts that cause vibration,</li> <li>Keeping machine parts well lubricated to reduce friction,</li> <li>Erecting acoustical enclosures and barriers around generators,</li> <li>Installing sound absorbing material and vibration isolation systems on hand tools,</li> <li>Turning off equipment when not in use,</li> <li>Placing stationary construction equipment such that emitted noise is directed away from sensitive noise receivers, and</li> </ul></li></ul> |        |                      |                                |                    |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Source                    | Responsible<br>Staff          | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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|          | <ul> <li>Using equipment and tools with<br/>minimal noise and vibration,<br/>when feasible.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |                               |                                |                    |
| Noise    | <ul> <li>AVM-NOI-3: The following procedures shall be implemented to minimize the potential for annoyance from construction vibration:</li> <li>Use cast-in-drilled-hole piles or sonic or vibratory pile drivers, where feasible, to avoid the use of impact-type pile drivers near residences.</li> <li>When there is a possibility of human annoyance from pile driving, conduct activities during weekday daytime hours when residents may be away from their homes.</li> <li>Avoid high vibration–generating activities during the same time in proximity to each other to the maximum extent practicable.</li> <li>Contact residents prior to pile driving to notify them that this</li> </ul> | Environmental<br>Document | Project Manager<br>Noise Unit | Construction                   | No (AVM)           |
| Noise    | AVM-NOI-4: During final design, use of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Environmental             | Project Manager               | PS&E                           | No (AVM)           |
|          | rubberized asphalt on the re-<br>constructed portion of the Atlantic<br>Avenue on-ramp and Cherry Avenue<br>off-ramp would be explored as a long-<br>term noise reduction method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Document                  | Noise Unit                    |                                |                    |
| Noise    | <b>MM-NOI-1</b> : Based on the studies completed to date, the Project would incorporate Barrier BA-4 at PM LA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Environmental<br>Document | Project Manager<br>Noise Unit | PS&E,<br>Construction          | Yes (MM)           |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                        | Source                    | Responsible<br>Staff | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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|          | R12.149 to LA R13.073, with a length<br>of 4,864 feet and a height of 14 to 16<br>feet, consistent with existing noise<br>barrier EXB-4 that has a height of 14<br>feet. These measures may change<br>based on input received from the<br>public. The final decision on noise<br>abatement will be made upon<br>completion of the Project design. |                           |                      |                                |                    |
| Energy   | <b>AVM-EN-1</b> : During construction, Metro<br>and Caltrans will implement<br>construction efficiency measures, as<br>feasible, including the reuse of existing<br>rail, steel, and lumber wherever<br>possible, such as for falsework,<br>shoring, and other applications during<br>the construction process.                                   | Environmental<br>Document | Project Manager      | Construction                   | No (AVM)           |
| Energy   | <b>AVM-EN-2</b> : During construction, Metro<br>and Caltrans will implement<br>construction efficiency measures, as<br>feasible, including recycling asphalt<br>taken up from roadways, if practicable<br>and cost-effective.                                                                                                                     | Environmental<br>Document | Project Manager      | Construction                   | No (AVM)           |
| Energy   | <b>AVM-EN-3</b> : During construction, Metro<br>and Caltrans will implement<br>construction efficiency measures, as<br>feasible, including using newer, more<br>energy-efficient equipment where<br>feasible, and maintaining older<br>construction equipment to keep in good<br>working order.                                                   | Environmental<br>Document | Project Manager      | Construction                   | No (AVM)           |
| Energy   | <b>AVM-EN-4</b> : During construction, Metro<br>and Caltrans will implement<br>construction efficiency measures, as<br>feasible, including scheduling of<br>construction operations to efficiently                                                                                                                                                | Environmental<br>Document | Project Manager      | Construction                   | No (AVM)           |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                | Source                    | Responsible<br>Staff                      | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
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|          | use construction equipment (e.g., only<br>haul waste when haul trucks are full<br>and combine smaller dozer operations<br>into a single comprehensive operation,<br>where possible).                                                                                                                                                                                                                                                                                      |                           |                                           |                                | -                  |
| Energy   | <b>AVM-EN-5</b> : During construction, Metro<br>and Caltrans will implement<br>construction efficiency measures, as<br>feasible, including promoting<br>construction employee carpooling.                                                                                                                                                                                                                                                                                 | Environmental<br>Document | Project Manager                           | Construction                   | No (AVM)           |
| Biology  | <b>AVM-BIO-1</b> : Prior to construction, a qualified biologist would conduct rare plant surveys within the construction area. Surveys would be conducted during the appropriate blooming period for species with potential to be in the construction area, to the extent feasible.                                                                                                                                                                                       | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Pre-construction               | No (AVM)           |
| Biology  | <b>AVM-BIO-2</b> : If a special-status plant<br>species is found during pre-construction<br>surveys, high visibility Environmentally<br>Sensitive Area (ESA) protective fencing<br>would be installed around the special-<br>status plants to prevent construction<br>staff or equipment from entering this<br>area. The ESA protective fencing buffer<br>would be species specific, with a<br>minimum buffer radius based on the<br>guidance from a qualified biologist. | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Pre-construction               | No (AVM)           |
| Biology  | AVM-BIO-3: All excluded areas with<br>ESA protective fencing would be<br>monitored to determine whether<br>exclusion measures were successful<br>and to identify any outstanding<br>concerns. Exclusionary measures<br>would be monitored throughout<br>construction to ensure they are                                                                                                                                                                                   | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                   | No (AVM)           |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Source                    | Responsible<br>Staff                      | Implementation<br>Phase/Timing    | CEQA<br>Mitigation |
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|          | functioning correctly and would be<br>removed following construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                                           |                                   |                    |
| Biology  | <b>AVM-BIO-4</b> : Construction during bird nesting season (typically February 1 to September 1) would be avoided to the extent feasible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                      | No (AVM)           |
| Biology  | <b>AVM-BIO-5</b> : If construction is required<br>during the nesting season, vegetation<br>removal would be conducted outside of<br>the nesting season (typically February 1<br>to September 1), wherever feasible.                                                                                                                                                                                                                                                                                                                                                                                                   | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                      | No (AVM)           |
| Biology  | <b>AVM-BIO-6</b> : If construction is<br>scheduled to begin during nesting bird<br>season, nesting bird surveys would be<br>completed by a qualified biologist no<br>more than 72 hours prior to<br>construction, or as determined by the<br>qualified biologist, to determine if<br>nesting birds or active nests are<br>present within the construction area.<br>Surveys would be conducted within 150<br>feet for songbirds and 500 feet for<br>raptors, or as otherwise determined by<br>the qualified biologist. Surveys would<br>be repeated if construction activities are<br>suspended for five days or more. | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Pre-construction,<br>Construction | No (AVM)           |
| Biology  | <b>AVM-BIO-7</b> : If nesting birds/raptors are<br>found within 500 feet of the construction<br>area, appropriate buffers consisting of<br>orange flagging/fencing or similar<br>(typically 150 feet for songbirds, and<br>500 feet for raptors, or as directed by a<br>qualified biologist) would be installed                                                                                                                                                                                                                                                                                                       | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                      | No (AVM)           |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Source                    | Responsible<br>Staff                      | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|--------------------------------|--------------------|
|          | and maintained until nesting activity has<br>ended, as determined in coordination<br>with the qualified biologist and<br>regulatory agencies, as appropriate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |                                           |                                |                    |
| Biology  | <b>AVM-BIO-8</b> : In the event that trimming,<br>or removal of vegetation and trees must<br>be conducted during bird nesting<br>season, nesting bird surveys would be<br>completed within 500 feet of the<br>vegetation to be trimmed or removed by<br>a qualified biologist no more than 72<br>hours prior to trimming or cleaning<br>activities to determine if nesting birds<br>are within the affected vegetation.<br>Surveys would be conducted within 150<br>feet for songbirds and 500 feet for<br>raptors, or as otherwise determined by<br>the qualified biologist. Nesting bird<br>surveys would be repeated if trimming<br>or removal activities are suspended for<br>five days or more. | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                   | No (AVM)           |
| Biology  | <b>AVM-BIO-9</b> : In the event that any bird species is observed foraging within the construction site, it would be allowed to move away from the site prior to initiating any construction activities that could result in direct injury of the individual.                                                                                                                                                                                                                                                                                                                                                                                                                                        | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                   | No (AVM)           |
| Biology  | <b>AVM-BIO-10</b> : Where feasible, tree<br>removal would be conducted after<br>October 31, which is outside of the<br>maternal and non-active seasons for<br>bats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                   | No (AVM)           |
| Biology  | <b>AVM-BIO-11</b> : During the summer months (June to August) prior to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Environmental<br>Document | Project Manager                           | Pre-construction               | No (AVM)           |

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Source                    | Responsible<br>Staff                      | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|--------------------------------|--------------------|
|          | construction, a thorough bat roosting<br>habitat assessment would be<br>conducted of all trees and structures<br>within 100 feet of the construction area.<br>Visual and acoustic surveys would be<br>conducted for at least two nights during<br>appropriate weather conditions to<br>assess the presence of roosting bats. If<br>presence is detected, a count and<br>species analysis would be completed to<br>help assess the type of colony and<br>usage.                                                                                                                      |                           | Qualified<br>Biologist                    |                                |                    |
| Biology  | <b>AVM-BIO-12</b> : No fewer than 30 days<br>prior to construction, and during the<br>non-breeding and active season<br>(typically October), bats would be safely<br>evicted from any roosts to be impacted<br>by the Project. The eviction plan would<br>be developed by, and completed under<br>the direction of, a qualified biologist.<br>Once bats have been safely evicted,<br>exclusionary devices would be installed<br>to prevent bats from returning and<br>roosting in these areas prior to removal.<br>Roosts not impacted by the Project<br>would be left undisturbed. | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Pre-construction               | No (AVM)           |
| Biology  | <b>AVM-BIO-13</b> : No fewer than two weeks<br>prior to construction, all excluded areas<br>would be surveyed to determine<br>whether exclusion measures were<br>successful and to identify any<br>outstanding concerns. Exclusionary<br>measures would be monitored<br>throughout construction to ensure they<br>are functioning correctly and would be<br>removed following construction                                                                                                                                                                                          | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Pre-construction               | No (AVM)           |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Source                    | Responsible<br>Staff                      | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|--------------------------------|--------------------|
| Biology  | <b>AVM-BIO-14</b> : If the presence or<br>absence of bats cannot be confirmed in<br>potential roosting habitat, a qualified<br>biologist would be onsite during<br>removal or disturbance of this area. If<br>the biologist determines that bats are<br>being disturbed during this work, work<br>would be suspended until bats have left<br>the vicinity on their own or can be safely<br>excluded under direction of the<br>biologist. Work would resume only once<br>all bats have left the site and/or<br>approval, is given by a qualified<br>biologist. | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                   | No (AVM)           |
| Biology  | <b>AVM-BIO-15</b> : In the event that a maternal colony of bats is found, no work would be conducted within 100 feet of the maternal roosting site until the maternal season is finished or the bats have left the site, or as otherwise directed by a qualified biologist. No equipment, personnel, or construction activities would be allowed within the buffer unless authorized in advance by a qualified biologist.                                                                                                                                     | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                   | No (AVM)           |
| Biology  | <b>AVM-BIO-16</b> : Prior to construction,<br>inactive cliff swallow nests and other<br>nests would be removed under<br>supervision of a qualified biologist<br>during the non-breeding season for cliff<br>swallows (typically September 16 to<br>February 14). The inactive nests would<br>also be checked for bats prior to<br>removal. During the nesting season for<br>cliff swallows (typically February 1 to<br>September 15), the Project Area would                                                                                                  | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Pre-construction               | No (AVM)           |

| Category | Task and Brief Description                                                                                                                                                                                                                                                                                                                     | Source                    | Responsible<br>Staff                      | Implementation<br>Phase/Timing | CEQA<br>Mitigation |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|--------------------------------|--------------------|
|          | be monitored as necessary to ensure<br>that no new nests are built, and any<br>partially-built nests would be removed<br>from the bridge during construction to<br>prevent swallows from nesting on the<br>bridge structure. Monitoring and nesting<br>deterrence would continue until birds no<br>longer attempt to nest.                     |                           |                                           |                                |                    |
| Biology  | <b>AVM-BIO-17</b> : The Landscape Concept<br>Design for the Project would be<br>prepared in consultation with the<br>Caltrans Landscape Architect, which<br>would include replanting ratios,<br>vegetation types, and establishment<br>criteria.                                                                                               | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | PS&E                           | No (AVM)           |
| Biology  | <b>AVM-BIO-18</b> : Invasive vegetation<br>removed from the Biological Study Area<br>would be treated and disposed of in a<br>manner that would prevent the spread<br>of invasive species onsite or offsite.                                                                                                                                   | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                   | No (AVM)           |
| Biology  | <b>AVM-BIO-19</b> : New landscaping<br>materials, including erosion control<br>seed mixes and other plantings, would<br>be composed of non-invasive species<br>and would be clear of weeds, and all<br>erosion control and landscape planting<br>would be conducted in a manner that<br>would not result in the spread of<br>invasive species. | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | Construction                   | No (AVM)           |
| Biology  | <b>AVM-BIO-20</b> : Plants listed in the Pest<br>Ratings of Noxious Weed Species and<br>Noxious Weed Seed (United States<br>Department of Agriculture, 2003) would<br>not be used as part of the Project.                                                                                                                                      | Environmental<br>Document | Project Manager<br>Qualified<br>Biologist | PS&E,<br>Construction          | No (AVM)           |

Appendix B. Title VI Policy Statement (English and Spanish)

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STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

Gavin Newsom, Governor

#### DEPARTMENT OF TRANSPORTATION OFFICE OF THE DIRECTOR P.O. BOX 942873, MS-49 SACPAMENTO, CA. 94273-0001

P.O. BOX 9428/3, M3-49 SACRAMENTO, CA 94273-0001 PHONE (916) 654-6130 FAX (916) 653-5776 TTY 711 www.dot.ca.gov



Making Conservation a California Way of Life.

August 2020

#### NON-DISCRIMINATION POLICY STATEMENT

The California Department of Transportation, under Title VI of the Civil Rights Act of 1964, ensures "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance."

Caltrans will make every effort to ensure nondiscrimination in all of its services, programs and activities, whether they are federally funded or not, and that services and benefits are fairly distributed to all people, regardless of race, color, or national origin. In addition, Caltrans will facilitate meaningful participation in the transportation planning process in a nondiscriminatory manner.

Related federal statutes, remedies, and state law further those protections to include sex, disability, religion, sexual orientation, and age.

For information or guidance on how to file a complaint, or obtain more information regarding Title VI, please contact the Title VI Branch Manager at (916) 324-8379 or visit the following web page: https://dot.ca.gov/programs/civil-rights/title-vi.

To obtain this information in an alternate format such as Braille or in a language other than English, please contact the California Department of Transportation, Office of Civil Rights, at 1823 14<sup>th</sup> Street, MS-79, Sacramento, CA 95811; (916) 324-8379 (TTY 711); or at <<u>Title.VI@dot.ca.gov</u>>.

Original signed by Toks Omishakin Director

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability'

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

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Gavin Newsom, Governor

Agosto de 2020

#### DECLARACIÓN DE POLÍTICA DE NO DISCRIMINACIÓN

El Departamento de Transporte de California, bajo el Título VI de la Ley de Derechos Civiles de 1964, asegura que "Ninguna persona en los Estados Unidos, debido a su raza, color u origen nacional, será excluída de participar, ni se le negarán los beneficios, o será objeto de discriminación, en ningún programa o actividad que reciba ayuda financiera federal."

Caltrans hará todos los esfuerzos para asegurar que no exista discriminación en ninguno de sus servicios, programas y actividades, ya sea que reciban fondos del gobierno federal o no, y que los servicios y beneficios sean justamente distribuidos a todas las personas sin importar su raza, color, u origen nacional. Adicionalmente, Caltrans facilitará la participación significativa en el proceso de planeación de los programas de transporte de manera no discriminatoria.

Los estatutos federales relacionados, los remedios, y la ley estatal refuerzan estas protecciones para incluir el sexo, la discapacidad, la religión, la orientación sexual y la edad.

Para información u orientación sobre cómo presentar una queja o para obtener más información relacionada con el Título VI, por favor comuníquese con el Gerente del Título VI al teléfono (916) 324-8379 o visite la siguiente página de Internet: https://dot.ca.gov/programs/civil-rights/title-vi.

Para obtener esta información en un formato alternativo como el Braille o en un lenguaje diferente al inglés, por favor póngase en contacto con la Oficina de Derechos Civiles del Departamento de Transporte de California, al 1823 14<sup>th</sup> Street, MS-79, Sacramento, CA 95811; al teléfono (916) 324-8379 (Teléfono de Texto TTY: 711); o al email: <u>Title.VI@dot.ca.gov</u>

Original signed by Toks Omishakin Director

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

**Appendix C. Consultation Letters and Responses** 

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RTIP ID# (required) LA0G1453

TCWG Consideration Date: September 22, 2020

**Project Description** (*clearly describe project*) The Los Angeles County Metropolitan Transportation Authority (Metro), in cooperation with the Gateway Cities Council of Governments (GCCOG) and the California Department of Transportation (Caltrans) District 7, propose to develop and implement an auxiliary lane on Eastbound (EB) State Route 91 (SR-91) within a 1.4-mile segment from the southbound Interstate 710 (I-710) interchange connector to eastbound SR-91, to Cherry Avenue. The project is located in the City of Long Beach and adjacent to the city of Paramount, California.

The Build Alternative (Alternative 2) would include the addition of an auxiliary lane on EB SR-91 from the Atlantic Avenue on-ramp to the Cherry Avenue off-ramp. The proposed alternative would require modifications to the following bridges:

- Myrtle Avenue Undercrossing (Bridge No. 53-2121) 1-span widening
- Orange Avenue Undercrossing (Bridge No. 53-2122) 1-span widening
- Walnut Avenue Undercrossing (Bridge No. 53-2127) 1-span widening

The Design Options within the Build Alternative would extend the auxiliary lane westerly to the SB I-710/EB SR-91 Connector, and easterly to the Cherry Avenue undercrossing. The westerly extension would require:

- The Atlantic Avenue Undercrossing (Bridge No. 53-2124), 2-span to be widened on the south side
- Restriping of the SB I-710/EB SR-91 Connector from one lane to two lanes
- Restriping of the Atlantic Avenue off-ramp

All other aspects of the Design Options would be the same as the Build Alternative, including the proposed bridge modifications.

Project limits are depicted in Figure 1.

**Type of Project** *(use Table 1 on instruction sheet)* Change to Existing State Highway

| County<br>Los Angeles        | Narrati<br>SR-91;<br>Caltrar                                     | ive Loc<br>PM R1<br>ns Proj | ation/Route<br>1.8 to R13.:<br>ects – EA# | <b>e &amp; F</b><br>2<br>07-3 | <b>Postmiles:</b><br>354600 |                      |                    |                        |                           |
|------------------------------|------------------------------------------------------------------|-----------------------------|-------------------------------------------|-------------------------------|-----------------------------|----------------------|--------------------|------------------------|---------------------------|
| Lead Agency                  | : Caltrar                                                        | ns Distr                    | ict 7                                     |                               |                             |                      |                    |                        |                           |
| Contact Perso<br>Andrew Yoon | on<br>P.E.                                                       |                             | <b>Phone#</b><br>213.266.689              | 92                            | <b>Fax#</b> 213.897.1634    | <b>Emai</b><br>Andre | l<br>ew.yoon@o     | dot.ca.go              | V                         |
| Hot Spot Poll                | Hot Spot Pollutant of Concern (check one or both) x PM2.5 x PM10 |                             |                                           |                               |                             |                      |                    |                        |                           |
| Federal Actio                | n for wh                                                         | ich Pro                     | oject-Level                               | PM (                          | Conformity is N             | eeded                | (check app         | oropriate              | box)                      |
| Cate<br>Excl<br>(NEF         | gorical<br>usion<br>PA)                                          | x                           | EA or<br>Draft EIS                        |                               | FONSI or<br>Final EIS       |                      | PS&E or<br>Constru | ction                  | Other                     |
| Scheduled Da                 | ate of Fe                                                        | deral A                     | <b>Action:</b> 202                        | 0                             |                             |                      |                    |                        |                           |
| NEPA Assign                  | ment – I                                                         | Project                     | Type (chec                                | k ap                          | propriate box)              |                      |                    |                        |                           |
| Exer                         | npt                                                              |                             |                                           | Secti<br>Exen                 | on 326 –Catego<br>option    | orical               | x Se<br>Ca         | ection 32<br>ategorica | ?7 – Non-<br>al Exemption |

| Current Progr | amming Dates (as appropri | iate) |      |      |
|---------------|---------------------------|-------|------|------|
|               | PE/Environmental          | ENG   | ROW  | CON  |
| Start         | 2018                      | 2020  | 2020 | 2021 |
| End           | 2020                      | 2021  | 2021 | 2024 |

Project Purpose and Need (Summary): (attach additional sheets as necessary)

#### PROJECT PURPOSE

The purpose of the Eastbound (EB) State Route 91 (SR-91) Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project (Project) is to enhance safety conditions on the EB SR-91 mainline, reduce congestion, and improve EB freeway operations (both mainline and ramps).

#### PROJECT NEED

Eastbound SR-91 experiences substantial congestion due to operational deficiencies within the project area, which is forecast to increase if no physical and operational improvements are made to the facility. The Project is needed to address operational safety due to the short weaving distance along EB SR-91 between the closely spaced interchanges of the I-710 on-ramps, Atlantic Avenue, and Cherry Avenue which impacts mainline congestion.

#### Surrounding Land Use/Traffic Generators (especially effect on diesel traffic)

Nearby land uses consist of a mix of land uses, including commercial, public, and residential uses. The nearest residential land uses are generally located adjacent to SR-91, to the north and south of SR-91. A church/preschool is located south of SR-91, east of Orange Avenue. Commercial land uses are generally located south of SR-91, near Atlantic Avenue and Cherry Avenue, and to the north of SR-91, east of Cherry Avenue. Diesel truck traffic in the area is predominantly generated by nearby industrial land uses. The proposed project would not significantly affect overall traffic or truck volumes. Nearby land uses are depicted in Figure 1.

#### Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Overall vehicle AADT, truck AADT, and truck percentages for opening year are summarized in Table 2. Freeway segment levels of service for opening year, without project weaving, are summarized in Table 4 and Table 5, respectively. Freeway segment levels of service for opening year, with project weaving, are summarized in Table 6 and Table 7, respectively.

## RTP Horizon Year / Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Overall vehicle AADT, truck AADT, and truck percentages for design year conditions are summarized in Table 3. Freeway segment levels of service for design year, without project weaving, are summarized in Table 8 and Table 9, respectively. Freeway segment levels of service for design year, with project weaving, are summarized in Table 10 and Table 11, respectively.

# Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build Intersection AADT, % and # trucks, truck AADT

Opening year intersection LOS data is summarized in Table 12.

# RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

Design year intersection LOS data is summarized in Table 13.

**Describe potential traffic redistribution effects of congestion relief** (*impact on other facilities*) The project would include operational improvements to SR-91 and would not result in significant increases in overall traffic or truck volumes.

| Table 2. SR-91 Average Daily Traffic & Truck Volumes - Opening Year 2024  |                               |        |        |         |                  |        |       |                                |        |  |
|---------------------------------------------------------------------------|-------------------------------|--------|--------|---------|------------------|--------|-------|--------------------------------|--------|--|
|                                                                           | Average-Daily Traffic Volumes |        |        |         |                  |        |       |                                |        |  |
| Segment                                                                   | No-Build Conditions           |        |        | В       | Build Conditions |        |       | Change from No-Build Condition |        |  |
|                                                                           | Total                         | Truck  | %Truck | Total   | Truck            | %Truck | Total | Truck                          | %Truck |  |
| EB SR-91 HOV Lane at I-710 (Butler)                                       | 14,745                        | 0      | 0%     | 14,745  | 0                | 0%     | 0     | 0                              | 0%     |  |
| EB SR-91 at I-710                                                         | 29,274                        | 1,171  | 4%     | 30,082  | 1,203            | 4%     | 808   | 32                             | 3%     |  |
| I-710 NB to SR-91 EB Ramp Direct Connector                                | 39,155                        | 2,738  | 7%     | 40,301  | 2,821            | 7%     | 1,186 | 83                             | 3%     |  |
| EB SR-91 between 710 NB Direct Connector & 710 SB Direct Connector        | 68,389                        | 3,419  | 5%     | 70,383  | 3,519            | 5%     | 1,994 | 100                            | 3%     |  |
| I-710 SB to SR-91 EB Ramp Direct Connector                                | 35,224                        | 2,466  | 7%     | 36,292  | 2,540            | 7%     | 1,068 | 75                             | 3%     |  |
| EB SR-91 between I-710 SB Direct Connector and EB<br>Atlantic Ave On-ramp | 103,613                       | 12,434 | 12%    | 106,675 | 12,801           | 12%    | 3,062 | 367                            | 3%     |  |
| EB Atlantic Ave On-ramp                                                   | 11,716                        | 351    | 3%     | 12,071  | 362              | 3%     | 355   | 11                             | 3%     |  |
| EB SR-91 Atlantic Ave to Cherry Ave (with cross-weave net difference)     | 115,329                       | 13,839 | 12%    | 118,746 | 14,250           | 12%    | 3,417 | 410                            | 3%     |  |
| Cross-weave net difference                                                | 2,539                         | 0      | 0%     | 2,539   | 0                | 0%     | 0     | 0                              | 0%     |  |
| EB SR-91 HOV Lane at Cherry Ave                                           | 17,284                        | 0      | 0%     | 17,284  | 0                | 0%     | 0     | 0                              | 0%     |  |
| EB Cherry Ave Off-ramp                                                    | 5,802                         | 683    | 11%    | 5,977   | 657              | 11%    | 175   | 19                             | 3%     |  |
| EB SR-91 Between Cherry Off-ramp & On-ramp                                | 106,988                       | 12,839 | 12%    | 110,230 | 13,228           | 12%    | 3,242 | 389                            | 3%     |  |
| EB Cherry Ave On-ramp                                                     | 12,885                        | 773    | 6%     | 12,885  | 773              | 6%     | 0     | 0                              | 0%     |  |
| EB SR-91 Cherry Ave to Paramount Blvd                                     | 119,873                       | 14,385 | 12%    | 123,115 | 14,774           | 12%    | 3,242 | 389                            | 3%     |  |
| EB Paramount Blvd Off-ramp                                                | 7,663                         | 766    | 10%    | 7,663   | 766              | 10%    | 0     | 0                              | 0%     |  |
| EB SR-91 Between Paramount Off-ramp & Onramp                              | 112,210                       | 13,465 | 12%    | 115,452 | 13,854           | 12%    | 3,242 | 389                            | 3%     |  |
| EB Paramount Blvd On-ramp                                                 | 8,341                         | 918    | 11%    | 8,341   | 918              | 11%    | 0     | 0                              | 0%     |  |
| EB SR-91 East of Paramount Blvd                                           | 120,551                       | 14,466 | 12%    | 123,793 | 14,855           | 12%    | 3,242 | 389                            | 3%     |  |

| Table 3. SR-91 Average Daily Traffic & Truck Volumes - Design Year 2045   |                               |        |        |                  |        |        |                                 |       |        |  |  |
|---------------------------------------------------------------------------|-------------------------------|--------|--------|------------------|--------|--------|---------------------------------|-------|--------|--|--|
|                                                                           | Average-Daily Traffic Volumes |        |        |                  |        |        |                                 |       |        |  |  |
| Segment                                                                   | No-Build Conditions           |        |        | Build Conditions |        |        | Change from No-Build Conditions |       |        |  |  |
|                                                                           | Total                         | Truck  | %Truck | Total            | Truck  | %Truck | Total                           | Truck | %Truck |  |  |
| EB SR-91 HOV Lane at I-710 (Butler)                                       | 14,876                        | 0      | 0%     | 14,876           | 0      | 0%     | 0                               | 0     | 0%     |  |  |
| EB SR-91 at I-710                                                         | 29,169                        | 1,750  | 6%     | 29,949           | 1,797  | 6%     | 780                             | 47    | 3%     |  |  |
| I-710 NB to SR-91 EB Ramp Direct Connector                                | 40,419                        | 2,829  | 7%     | 41,643           | 2,915  | 7%     | 1,224                           | 86    | 3%     |  |  |
| EB SR-91 between 710 NB Direct Connector & 710 SB Direct Connector        | 69,588                        | 4,871  | 7%     | 71,592           | 5,011  | 7%     | 2,004                           | 140   | 3%     |  |  |
| I-710 SB to SR-91 EB Ramp Direct Connector                                | 35,230                        | 2,466  | 7%     | 36,297           | 2,541  | 7%     | 1,067                           | 75    | 3%     |  |  |
| EB SR-91 between I-710 SB Direct Connector and EB<br>Atlantic Ave On-ramp | 104,818                       | 16,771 | 16%    | 107,889          | 17,262 | 16%    | 3,071                           | 491   | 3%     |  |  |
| EB Atlantic Ave On-ramp                                                   | 12,116                        | 363    | 3%     | 12,498           | 375    | 3%     | 382                             | 11    | 3%     |  |  |
| EB SR-91 Atlantic Ave to Cherry Ave (with cross-weave net difference)     | 116,934                       | 18,709 | 16%    | 120,387          | 19,262 | 16%    | 3,453                           | 552   | 3%     |  |  |
| Cross-weave net difference                                                | 2,562                         | 0      | 0%     | 2,562            | 0      | 0%     | 0                               | 0     | 0%     |  |  |
| EB SR-91 HOV Lane at Cherry Ave                                           | 17,438                        | 0      | 0%     | 17,438           | 0      | 0%     | 0                               | 0     | 0%     |  |  |
| EB Cherry Ave Off-ramp                                                    | 6,434                         | 708    | 11%    | 6,616            | 728    | 11%    | 182                             | 20    | 3%     |  |  |
| EB SR-91 Between Cherry Off-ramp & On-ramp                                | 107,938                       | 17,270 | 16%    | 111,209          | 17,793 | 16%    | 3,271                           | 523   | 3%     |  |  |
| EB Cherry Ave On-ramp                                                     | 14,004                        | 840    | 6%     | 14,004           | 840    | 6%     | 0                               | 0     | 0%     |  |  |
| EB SR-91 Cherry Ave to Paramount Blvd                                     | 121,942                       | 19,511 | 16%    | 125,213          | 20,034 | 16%    | 3,271                           | 523   | 3%     |  |  |
| EB Paramount Blvd Off-ramp                                                | 8,916                         | 892    | 10%    | 8,916            | 892    | 10%    | 0                               | 0     | 0%     |  |  |
| EB SR-91 Between Paramount Off-ramp & Onramp                              | 113,026                       | 18,084 | 16%    | 116,297          | 18,608 | 16%    | 3,271                           | 523   | 3%     |  |  |
| EB Paramount Blvd On-ramp                                                 | 9,218                         | 1,014  | 11%    | 9,218            | 1,014  | 11%    | 0                               | 0     | 0%     |  |  |
| EB SR-91 East of Paramount Blvd                                           | 122,244                       | 19,559 | 16%    | 125,515          | 20,082 | 16%    | 3,271                           | 523   | 3%     |  |  |

| Table 4. Opening Year 2024 Without Project Basic Freeway Segment Analysis |                      |       |                      |              |                      |     |                      |     |  |  |  |
|---------------------------------------------------------------------------|----------------------|-------|----------------------|--------------|----------------------|-----|----------------------|-----|--|--|--|
|                                                                           |                      | AM Pe | ak Hour              | PM Peak Hour |                      |     |                      |     |  |  |  |
| Segment Location                                                          | HOV                  |       | General Purpose      |              | НО                   | v   | General Purpose      |     |  |  |  |
|                                                                           | Density <sup>1</sup> | LOS   | Density <sup>1</sup> | LOS          | Density <sup>1</sup> | LOS | Density <sup>1</sup> | LOS |  |  |  |
| West of I-710 NB Connector                                                | 10.7                 | А     | 12.2                 | В            | 75.4                 | F   | 30.4                 | D   |  |  |  |
| I-710 NB Connector to I-710 SB Connector                                  | 10.7                 | А     | 19.7                 | С            | 75.4                 | F   | 45.1                 | F   |  |  |  |
| I-710 SB Connector to Atlantic Avenue On-Ramp                             | 10.7                 | А     | 24.6                 | С            | 75.4                 | F   | 67.4                 | F   |  |  |  |
| Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                           | 18.5                 | С     | 30.8                 | D            | 56.2                 | F   | 59.4                 | F   |  |  |  |
| Paramount Blvd Off-Ramp to Paramount Boulevard On-<br>Ramp                | 18.5                 | С     | 30.5                 | D            | 56.2                 | F   | 46.9                 | F   |  |  |  |
| East of Paramount Boulevard On-Ramp                                       | 18.5                 | С     | 27.0                 | D            | 56.2                 | F   | 45.1                 | F   |  |  |  |

<sup>1</sup>Density in passenger cars per mile per lane (pc/mi/ln)

| Table 5. Opening Year 2024                                              | Without Pr           | oject We         | aving Freev          | way Segr | ment Analy           | sis              |                      |         |  |
|-------------------------------------------------------------------------|----------------------|------------------|----------------------|----------|----------------------|------------------|----------------------|---------|--|
|                                                                         |                      | AM Pea           | ak Hour              |          | PM Peak Hour         |                  |                      |         |  |
| Weave Type                                                              | HOV                  |                  | General Purpose      |          | HOV                  |                  | General              | Purpose |  |
|                                                                         | Density <sup>1</sup> | LOS              | Density <sup>1</sup> | LOS      | Density <sup>1</sup> | LOS              | Density <sup>1</sup> | LOS     |  |
| Atlantic Aver                                                           | ue On-Ram            | o to Cherry      | Avenue Off-          | Ramp     |                      |                  |                      |         |  |
| Conventional weave between auxiliary lane and the freeway mainline      | N/A <sup>2</sup>     | N/A <sup>2</sup> | 28.3                 | С        | N/A <sup>2</sup>     | N/A <sup>2</sup> | 50.3                 | F       |  |
| Managed lane access segment with cross-weaving                          | 22.1                 | С                | 22.1                 | С        | 56.9                 | F                | 56.9                 | F       |  |
| Cherry Avenue                                                           | On-Ramp to           | Paramoun         | t Boulevard C        | Off-Ramp |                      |                  |                      |         |  |
| Conventional weave between auxiliary lane and the freeway mainline      | 18.5                 | С                | 28.0                 | D        | 56.2                 | F                | 52.8                 | F       |  |
| <sup>1</sup> Density in passenger cars per mile per lane (pc/mi/ln)     |                      |                  |                      |          |                      |                  |                      |         |  |
| <sup>2</sup> Not applicable because HOV LOS analysis is evaluated as pa | art of the sub       | sequent w        | eave analysis        | ;        |                      |                  |                      |         |  |
|                                                                         |                      |                  |                      |          |                      |                  |                      |         |  |
|                                                                         |                      |                  |                      |          |                      |                  |                      |         |  |

| Table 6. Opening Year                                      | 2024 With Pr         | oject Ba | sic Freeway          | v Segmei | nt Analysis          |     |                      |     |  |  |
|------------------------------------------------------------|----------------------|----------|----------------------|----------|----------------------|-----|----------------------|-----|--|--|
|                                                            |                      | AM Pe    | ak Hour              |          | PM Peak Hour         |     |                      |     |  |  |
| Segment Location                                           | HOV                  |          | General Purpose      |          | НО                   | v   | General Purpose      |     |  |  |
|                                                            | Density <sup>1</sup> | LOS      | Density <sup>1</sup> | LOS      | Density <sup>1</sup> | LOS | Density <sup>1</sup> | LOS |  |  |
| West of I-710 NB Connector                                 | 10.7                 | А        | 11.9                 | В        | 71.8                 | F   | 27.0                 | D   |  |  |
| I-710 NB Connector to I-710 SB Connector                   | 10.7                 | А        | 19.3                 | С        | 71.8                 | F   | 40.9                 | E   |  |  |
| I-710 SB Connector to Atlantic Avenue On-Ramp              | 10.7                 | А        | 20.1                 | С        | 71.8                 | F   | 53.2                 | F   |  |  |
| Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp            | 18.5                 | С        | 31.7                 | D        | 54.2                 | F   | 61.2                 | F   |  |  |
| Paramount Blvd Off-Ramp to Paramount Boulevard On-<br>Ramp | 18.5                 | С        | 31.4                 | D        | 54.2                 | F   | 48.3                 | F   |  |  |
| East of Paramount Boulevard On-Ramp                        | 18.5                 | С        | 27.7                 | D        | 54.2                 | F   | 46.3                 | F   |  |  |

<sup>1</sup>Density in passenger cars per mile per lane (pc/mi/ln)

| Table 7. Opening Year 202                                               | 4 With Proj          | ect Weav         | ving Freewa          | ay Segm  | ent Analysi          | s                |                      |         |  |
|-------------------------------------------------------------------------|----------------------|------------------|----------------------|----------|----------------------|------------------|----------------------|---------|--|
|                                                                         |                      | AM Pea           | ak Hour              |          | PM Peak Hour         |                  |                      |         |  |
| Weave Type                                                              | HOV                  |                  | General Purpose      |          | HOV                  |                  | General              | Purpose |  |
|                                                                         | Density <sup>1</sup> | LOS              | Density <sup>1</sup> | LOS      | Density <sup>1</sup> | LOS              | Density <sup>1</sup> | LOS     |  |
| Atlantic Aver                                                           | nue On-Ramp          | to Cherry        | Avenue Off-          | Ramp     |                      |                  |                      |         |  |
| Conventional weave between auxiliary lane and the freeway mainline      | N/A <sup>2</sup>     | N/A <sup>2</sup> | 22.2                 | С        | N/A <sup>2</sup>     | N/A <sup>2</sup> | 37.7                 | Е       |  |
| Managed lane access segment with cross-weaving                          | 19.5                 | С                | 19.5                 | F        | 48.3                 | F                | 48.3                 | F       |  |
| Cherry Avenue                                                           | On-Ramp to           | Paramoun         | t Boulevard C        | Off-Ramp |                      |                  |                      |         |  |
| Conventional weave between auxiliary lane and the freeway mainline      | 18.5                 | С                | 28.8                 | D        | 54.2                 | F                | 54.2                 | F       |  |
| <sup>1</sup> Density in passenger cars per mile per lane (pc/mi/ln)     |                      |                  |                      |          |                      |                  |                      |         |  |
| <sup>2</sup> Not applicable because HOV LOS analysis is evaluated as pa | art of the sub       | sequent w        | eave analysis        | ;        |                      |                  |                      |         |  |
|                                                                         |                      |                  |                      |          |                      |                  |                      |         |  |
|                                                                         |                      |                  |                      |          |                      |                  |                      |         |  |

|                                                                    |                      |                  |                      |          | _                    |                  | ok Hour              |         |
|--------------------------------------------------------------------|----------------------|------------------|----------------------|----------|----------------------|------------------|----------------------|---------|
|                                                                    |                      |                  |                      | _        |                      |                  |                      |         |
| Segment Location                                                   | HC                   |                  | General I            | Purpose  | HC                   | DV<br>           | General              | Purpose |
|                                                                    | Density <sup>1</sup> | LOS              | Density <sup>1</sup> | LOS      | Density <sup>1</sup> | LOS              | Density <sup>1</sup> | LOS     |
| Vest of I-710 NB Connector                                         | 10.8                 | A                | 13.0                 | В        | 76.1                 | F                | 30.6                 | D       |
| -710 NB Connector to I-710 SB Connector                            | 10.8                 | А                | 20.7                 | С        | 76.1                 | F                | 46.2                 | F       |
| -710 SB Connector to Atlantic Avenue On-Ramp                       | 10.8                 | А                | 26.3                 | D        | 76.1                 | F                | 70.2                 | F       |
| Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp                    | 18.7                 | С                | 32.5                 | D        | 56.8                 | F                | 61.8                 | F       |
| Paramount Blvd Off-Ramp to Paramount Boulevard On-<br>Ramp         | 18.7                 | С                | 32.3                 | D        | 56.8                 | F                | 48.6                 | F       |
| East of Paramount Boulevard On-Ramp                                | 18.7                 | С                | 28.6                 | D        | 56.8                 | F                | 47.0                 | F       |
|                                                                    |                      | AM Pe            | ak Hour              |          | PM Peak Hour         |                  |                      |         |
|                                                                    |                      |                  |                      |          |                      |                  |                      |         |
| weave Type                                                         | HC<br>Densite 1      |                  | General I            | Purpose  | HC<br>Danaitat       |                  | General              | Purpose |
|                                                                    |                      |                  |                      | Dome     | Density              | L03              | Density              | L03     |
| Alianuc Ave                                                        |                      | ip to Cherr      | y Avenue Oli         | -катр    |                      |                  |                      |         |
| nainline                                                           | N/A <sup>2</sup>     | N/A <sup>2</sup> | 30.0                 | D        | N/A <sup>2</sup>     | N/A <sup>2</sup> | 52.3                 | F       |
| Aanaged lane access segment with cross-weaving                     | 22.7                 | С                | 22.7                 | С        | 57.7                 | F                | 57.7                 | F       |
| Cherry Avenue                                                      | e On-Ramp to         | Paramou          | nt Boulevard         | Off-Ramp |                      |                  |                      |         |
| Conventional weave between auxiliary lane and the freeway          | 18.7                 | С                | 29.5                 | D        | 56.8                 | F                | 55.0                 | F       |
| nainline                                                           |                      |                  |                      |          |                      |                  |                      |         |
| nainline<br>Density in passenger cars per mile per lane (pc/mi/ln) |                      |                  | -) - L               |          |                      |                  |                      |         |

|                                                            |                      | AM Pe | ak Hour              |                 | PM Peak Hour         |     |                      |     |  |
|------------------------------------------------------------|----------------------|-------|----------------------|-----------------|----------------------|-----|----------------------|-----|--|
| Segment Location                                           | НС                   | HOV   |                      | General Purpose |                      | V   | General Purpose      |     |  |
|                                                            | Density <sup>1</sup> | LOS   | Density <sup>1</sup> | LOS             | Density <sup>1</sup> | LOS | Density <sup>1</sup> | LOS |  |
| West of I-710 NB Connector                                 | 10.8                 | А     | 12.7                 | В               | 72.5                 | F   | 27.1                 | D   |  |
| I-710 NB Connector to I-710 SB Connector                   | 10.8                 | А     | 20.3                 | С               | 72.5                 | F   | 42.0                 | Е   |  |
| I-710 SB Connector to Atlantic Avenue On-Ramp              | 10.8                 | А     | 21.4                 | С               | 72.5                 | F   | 55.4                 | F   |  |
| Cherry Avenue Off-Ramp to Cherry Avenue On-Ramp            | 18.7                 | С     | 33.5                 | D               | 54.8                 | F   | 63.6                 | F   |  |
| Paramount Blvd Off-Ramp to Paramount Boulevard On-<br>Ramp | 18.7                 | С     | 33.2                 | D               | 54.8                 | F   | 50.1                 | F   |  |
| East of Paramount Boulevard On-Ramp                        | 18.7                 | С     | 29.3                 | D               | 54.8                 | F   | 48.3                 | F   |  |

<sup>1</sup>Density in passenger cars per mile per lane (pc/mi/ln)

| Table 11. Horizon Year 20                                              | 45 With Pro          | oject Wea        | ving Freew           | vay Segm | ent Analys           | sis              |                      |         |  |
|------------------------------------------------------------------------|----------------------|------------------|----------------------|----------|----------------------|------------------|----------------------|---------|--|
|                                                                        |                      | AM Pe            | ak Hour              |          | PM Peak Hour         |                  |                      |         |  |
| Weave Type                                                             | нс                   | V                | General Purpose      |          | HOV                  |                  | General              | Purpose |  |
|                                                                        | Density <sup>1</sup> | LOS              | Density <sup>1</sup> | LOS      | Density <sup>1</sup> | LOS              | Density <sup>1</sup> | LOS     |  |
| Atlantic Ave                                                           | nue On-Ran           | np to Cherr      | y Avenue Off         | -Ramp    |                      |                  |                      |         |  |
| Conventional weave between auxiliary lane and the freeway mainline     | N/A <sup>2</sup>     | N/A <sup>2</sup> | 23.6                 | С        | N/A <sup>2</sup>     | N/A <sup>2</sup> | 39.2                 | E       |  |
| Managed lane access segment with cross-weaving                         | 19.9                 | С                | 19.9                 | С        | 48.9                 | F                | 48.9                 | F       |  |
| Cherry Avenue                                                          | On-Ramp to           | o Paramou        | nt Boulevard         | Off-Ramp |                      |                  |                      |         |  |
| Conventional weave between auxiliary lane and the freeway mainline     | 18.7                 | С                | 30.3                 | D        | 54.8                 | F                | 56.5                 | F       |  |
| <sup>1</sup> Density in passenger cars per mile per lane (pc/mi/ln)    |                      |                  |                      |          |                      |                  |                      |         |  |
| <sup>2</sup> Not applicable because HOV LOS analysis is evaluated as p | art of the sub       | osequent w       | eave analysi         | s        |                      |                  |                      |         |  |
|                                                                        |                      |                  |                      |          |                      |                  |                      |         |  |
|                                                                        |                      |                  |                      |          |                      |                  |                      |         |  |

|    | Table                            | 12. Opening Year 2   | 024 Inters   | section L  | OS Analy     | /sis |                   |     |              |     |
|----|----------------------------------|----------------------|--------------|------------|--------------|------|-------------------|-----|--------------|-----|
|    |                                  |                      |              | No-Build A | Alternative  |      | Build Alternative |     |              |     |
| #  | Intersection                     | Traffic Control Type | AM Peak Hour |            | PM Peak Hour |      | AM Peak Hour      |     | PM Peak Hour |     |
|    |                                  |                      | Delay        | LOS        | Delay        | LOS  | Delay             | LOS | Delay        | LOS |
| 1  | Long Beach Blvd/SR-91 WB Ramps   | Signalized           | 101.2        | F          | 44.8         | D    | 101.2             | F   | 44.8         | D   |
| 2  | Long Beach Blvd/SR-91 EB Ramps   | Signalized           | 34.5         | С          | 36.7         | D    | 34.5              | С   | 36.7         | D   |
| 3  | Atlantic Ave/68 <sup>th</sup> St | 2-Way Stop           | > 300.0      | F          | 266.8        | F    | > 300.0           | F   | 266.8        | F   |
| 4  | Atlantic Ave/SR-91 WB Ramps      | Signalized           | 19.1         | В          | 29.3         | С    | 19.1              | В   | 29.3         | С   |
| 5  | Atlantic Ave/SR-91 EB Ramps      | Signalized           | 18.8         | В          | 40.5         | D    | 18.6              | В   | 42.3         | D   |
| 6  | Atlantic Ave/Artesia Blvd        | Signalized           | 51.0         | D          | 53.6         | D    | 51.0              | D   | 53.6         | D   |
| 7  | Orange Ave/68 <sup>th</sup> St   | 2-Way Stop           | 32.0         | D          | 33.7         | D    | 32.0              | D   | 33.7         | D   |
| 8  | Orange Ave/67 <sup>th</sup> St   | Signalized           | 6.2          | А          | 5.6          | А    | 6.2               | А   | 5.6          | A   |
| 9  | Orange Ave/Artesia Blvd          | Signalized           | 44.1         | D          | 36.9         | D    | 44.1              | D   | 36.9         | D   |
| 10 | Cherry Ave/68 <sup>th</sup> St   | Signalized           | 38.2         | D          | 42.6         | D    | 38.2              | D   | 42.6         | D   |
| 11 | Cherry Ave/SR-91 WB Ramps        | Signalized           | 34.3         | С          | 40.8         | D    | 34.4              | С   | 40.9         | D   |
| 12 | Cherry Ave/SR-91 EB Ramps        | Signalized           | 24.5         | С          | 19.4         | В    | 24.7              | С   | 19.6         | В   |
| 13 | Cherry Ave/Artesia Blvd          | Signalized           | 53.6         | D          | 52.9         | D    | 53.6              | D   | 52.9         | D   |
| 14 | Paramount Blvd/SR-91 WB Ramps    | Signalized           | 26.9         | С          | 27.6         | С    | 26.9              | С   | 27.6         | С   |
| 15 | Paramount Blvd/SR-91 EB Ramps    | Signalized           | 27.9         | С          | 26.7         | С    | 27.9              | С   | 26.7         | С   |

|    | Table 13. Horizon Year 2045 Intersection LOS Analysis |                      |              |          |              |     |              |         |              |     |  |  |  |
|----|-------------------------------------------------------|----------------------|--------------|----------|--------------|-----|--------------|---------|--------------|-----|--|--|--|
|    |                                                       |                      |              | No-Build | Alternative  |     |              | Build A | Iternative   |     |  |  |  |
| #  | Intersection                                          | Traffic Control Type | AM Peak Hour |          | PM Peak Hour |     | AM Peak Hour |         | PM Peak Hour |     |  |  |  |
|    |                                                       |                      | Delay        | LOS      | Delay        | LOS | Delay        | LOS     | Delay        | LOS |  |  |  |
| 1  | Long Beach Blvd/SR-91 WB Ramps                        | Signalized           | 105.7        | F        | 54.0         | D   | 105.7        | F       | 54.0         | D   |  |  |  |
| 2  | Long Beach Blvd/SR-91 EB Ramps                        | Signalized           | 36.6         | С        | 38.3         | D   | 36.6         | С       | 38.3         | D   |  |  |  |
| 3  | Atlantic Ave/68 <sup>th</sup> St                      | 2-Way Stop           | > 300.0      | F        | > 300.0      | F   | > 300.0      | F       | > 300.0      | F   |  |  |  |
| 4  | Atlantic Ave/SR-91 WB Ramps                           | Signalized           | 21.2         | С        | 37.6         | D   | 21.2         | С       | 37.5         | D   |  |  |  |
| 5  | Atlantic Ave/SR-91 EB Ramps                           | Signalized           | 18.1         | В        | 40.9         | D   | 18.1         | В       | 42.7         | D   |  |  |  |
| 6  | Atlantic Ave/Artesia Blvd                             | Signalized           | 65.6         | E        | 61.2         | E   | 65.6         | E       | 61.2         | Е   |  |  |  |
| 7  | Orange Ave/68 <sup>th</sup> St                        | 2-Way Stop           | 51.7         | F        | 42.7         | E   | 51.7         | F       | 42.7         | Е   |  |  |  |
| 8  | Orange Ave/67 <sup>th</sup> St                        | Signalized           | 6.3          | А        | 5.6          | А   | 6.3          | А       | 5.6          | А   |  |  |  |
| 9  | Orange Ave/Artesia Blvd                               | Signalized           | 49.6         | D        | 39.3         | D   | 49.6         | D       | 39.3         | D   |  |  |  |
| 10 | Cherry Ave/68 <sup>th</sup> St                        | Signalized           | 41.1         | D        | 44.6         | D   | 41.1         | D       | 44.6         | D   |  |  |  |
| 11 | Cherry Ave/SR-91 WB Ramps                             | Signalized           | 35.5         | D        | 41.8         | D   | 35.6         | D       | 41.8         | D   |  |  |  |
| 12 | Cherry Ave/SR-91 EB Ramps                             | Signalized           | 24.7         | С        | 20.4         | С   | 25.0         | С       | 20.5         | С   |  |  |  |
| 13 | Cherry Ave/Artesia Blvd                               | Signalized           | 70.7         | E        | 60.3         | E   | 70.7         | E       | 60.3         | Е   |  |  |  |
| 14 | Paramount Blvd/SR-91 WB Ramps                         | Signalized           | 27.8         | С        | 27.9         | С   | 27.8         | С       | 27.9         | С   |  |  |  |
| 15 | Paramount Blvd/SR-91 EB Ramps                         | Signalized           | 28.4         | С        | 27.9         | С   | 28.4         | С       | 27.9         | С   |  |  |  |
**Comments/Explanation/Details** (attach additional sheets as necessary)

Under 40 CFR 93.123(b)—PM10 and PM2.5 Hot Spots—the following criteria are utilized to determine the potential for the proposed project to qualify as a Project of Air Quality Concern (POAQC):

 New highway projects that have a significant number of diesel vehicles, and expanded highway projects that have a significant increase in the number of diesel vehicles;

In comparison to no-build conditions, the proposed build alternative would not significantly increase the number of diesel vehicles operating within the project study area. Refer to Table 2 and Table 3.

 Projects affecting intersections that are at Level-of-Service D, E, or F with a significant number of diesel vehicles, or those that will change to Level-of-Service D, E, or F because of increased traffic volumes from a significant number of diesel vehicles related to the project;

As noted above and depicted in Table 2 and Table 3, the project would not result in significant increases in overall traffic or truck volumes along area roadways. As depicted in Table 12 and Table 13, the proposed build alternative would not result in significant changes in intersection operations. Based on this information, the proposed build alternative would not significantly increase the number of diesel vehicles operating within the project study area, nor would the proposed build alternative adversely impact nearby intersections that have a significant number of diesel vehicles.

(iii) New bus and rail terminals and transfer points that have a significant number of diesel vehicles congregating at a single location;

The project is not a new or expanded bus or rail terminal, nor would the project adversely impact transfer points that have a significant number of diesel vehicles congregating at a single location.

(iv) Expanded bus and rail terminals and transfer points that significantly increase the number of diesel vehicles congregating at a single location; and

The project is not a new or expanded bus or rail terminal, nor would the project adversely impact transfer points that have a significant number of diesel vehicles congregating at a single location.

(v) Projects in or affecting locations, areas, or categories of sites which are identified in the PM10 or PM2.5 applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.

The proposed build alternative is not located in nor would it affect locations, areas, or categories of sites that are identified in the PM<sub>2.5</sub> and PM<sub>10</sub> applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.

For the reasons noted above, the proposed project would not be considered a POAQC.



#### PM Conformity Hot Spot Analysis - Project Summary for Interagency Consultation

6/28/2020

#### Project Report

#### 2019 Federal Transportation Improvement Program Los Angeles County State Highway - Project Listing Including Amendments 1 - 22 (In \$000's)

| FTIP ID                  | LA0G1453                                                                                                                           | FTIP Amendment       | LA County (METRO) 19-12                              | Conform<br>Category | NON-<br>EXEMPT | Total Projec<br>Cost | <sup>t</sup> \$8,349 |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------|---------------------|----------------|----------------------|----------------------|
| Lead Agency              | LOS ANGELES<br>COUNTY MTA                                                                                                          |                      |                                                      | Modeling            | YES            |                      |                      |
| County                   | Los Angeles                                                                                                                        | Primary Program Code | CAX62 - HIGHWAY/ROAD IMP-LANE<br>ADD'S W/ HOV LN: RS | Air Basin           | SCAB           | RTP ID               | 1163S005             |
| System<br>Project Limits | stem State Hwy<br>oject Limits Route 91 , From Atlantic Avenue to Cherry Ave, Milepost Begins at 11.85 Ends at 13.35 of Length 1.5 |                      |                                                      |                     |                |                      |                      |

Description Add one eastbound auxiliary lane from I-710 ramps at Atlantic Avenue to past Cherry Avenue undercrossing.

| Phase | Fund Source (in \$000s)       | Prior | 18/19 | 19/20   | 20/21   | 21/22 | 22/23 | 23/24 | Future | Total   |
|-------|-------------------------------|-------|-------|---------|---------|-------|-------|-------|--------|---------|
| PE M  | MR20H - Measure R 20% Highway | -     | \$349 | \$4,000 | \$4,000 | -     | -     | -     | ÷      | \$8,349 |
|       | Total Preliminary Engineering | -     | \$349 | \$4,000 | \$4,000 | -     | -     | -     | -      | \$8,349 |
|       | Total Programmed              | -     | \$349 | \$4,000 | \$4,000 | -     |       | -     | -      | \$8,349 |

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The postmiles in the 2019 FTIP are being updated as part of formal 2019 amendment #19-27 (see below). However, this does not affect regional air quality conformity modeling as the RTP postmiles are correct.

| ™ □ LA0G1453                                               |                        | Implement       | ng Ag   | gency Los                      | Angeles (          | County M1                                              | ГА                                                                                    |                                                                            |                  |
|------------------------------------------------------------|------------------------|-----------------|---------|--------------------------------|--------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------|
| Project Description; Add one eastbound auxiliary lane from | I-710 to Cherry Avenue | undercrossing.  |         |                                |                    | SCAG<br>Study:1<br>PM: Lu<br>Email:<br>LS: N<br>Confor | RTP Project<br>N/A Is Mode<br>Icy Olmos - (<br>olmosl@met<br>LS GROUF<br>mity Categor | #: 1163S006<br>el: YES Mode<br>213) 922-709<br>ro.net<br>P#:<br>y: NON-EXE | 5<br>el #:<br>99 |
| System :State Hwy Route :91 Postmile: 11.8 to 13.2         | Distance: 1.4 Pr       | ase: Environmen | al Docu | ument/Pre-Desi                 | jn Phase (P.       | AED)                                                   | Complet                                                                               | ion Date 12/                                                               | /31/2024         |
| Lane # Extd: 6 Lane # Prop: 7 Imprv Desc: Auxiliary lane.  |                        |                 |         | Air Basin: SCA                 | B Envir D<br>DECLA | oc: INITIAL S<br>RATION - CE                           | STUDY/NEG/<br>EQA - 05/30/                                                            | ATIVE<br>2021                                                              |                  |
| Toll Rate: Toll Colc Loc: Toll Metho<br>0.00               | od: Hoviacsieg lo      | )C:             |         | Uza: Los Ange<br>Beach-Santa A | les-Long<br>vna    | Sub-Area                                               | Sub-R                                                                                 | egion:                                                                     |                  |
|                                                            |                        | ston Loc:       |         | CTIPS ID:                      |                    | EA #:                                                  |                                                                                       | PPNO:                                                                      |                  |
|                                                            | PHASE PRIC             | DR 18/19        | 19/20   | 20/21                          | 21/22              | 22/23                                                  | 23/24                                                                                 | BEYOND                                                                     | PROG TOTA        |
| 1R20H - Measure R 20% Highway                              | PE                     | \$349           | \$4,0   | 00 \$4,000                     |                    |                                                        |                                                                                       |                                                                            | \$8,349          |
|                                                            | RW                     | \$0             |         | \$0 \$0                        |                    |                                                        |                                                                                       |                                                                            | \$0              |
|                                                            | CON                    | \$0             |         | \$0 \$0                        |                    |                                                        |                                                                                       |                                                                            | \$0              |
|                                                            | SUBTOTAL               | \$349           | \$4,0   | 00 \$4,000                     |                    |                                                        |                                                                                       |                                                                            | \$8,349          |
|                                                            | TOTAL                  | \$349           | \$4,0   | 00 \$4,000                     |                    |                                                        |                                                                                       |                                                                            | \$8,349          |
|                                                            |                        |                 |         |                                |                    |                                                        |                                                                                       |                                                                            |                  |

#### Los Angeles Metropolitan Transportation Authority 2019 Federal Transportation Improvement Program (\$000)

Sunday, August 23, 2020

## Los Angeles Metropolitan Transportation Authority 2021 Federal Transportation Improvement Program (\$000)

| TP D LA0G1453                                                                                                                                                                                                              |                | Im              | plement   | ing A    | gency Lo                  | s Angeles            | County MT                                              | ГА                                                                             |                                                                                   |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|-----------|----------|---------------------------|----------------------|--------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|
| Project Description: Add one eastbound auxiliary lane from I-710                                                                                                                                                           | ) to Cherry Av | venue under     | crossing. |          |                           |                      | SCAG<br>Study:N<br>PM: Lu<br>Email:<br>LS: N<br>Confor | RTP Projec<br>V/A Is Moc<br>Icy Olmos -<br>olmosl@me<br>LS GROL<br>mity Catego | t #: 1163S00;<br>jel: YES Mod<br>(213) 922-70<br>stro.net<br>JP#:<br>JP#: NON-EXE | 5<br>el #:<br>99<br>EMPT |
| System :State Hwy Route :91 Postmile: 11.8 to 13.2                                                                                                                                                                         | Distance: 1.4  | Phase: E        | nvironmen | tal Doci | ument/Pre-D               | esign Phase          | (PAED)                                                 | Comple                                                                         | etion Date 12                                                                     | /31/2024                 |
| Lane # Extd: 6 Lane # Prop: 7 Imprv Desc: Auxiliary Iane.                                                                                                                                                                  |                |                 |           |          | Air Basin: S              | CAB Envir<br>DEC     | Doc: INITIAL S<br>ARATION - CE                         | TUDY/NEG<br>EQA - 05/30                                                        | ATIVE<br>V2021                                                                    |                          |
| Toll Rate: Toll Colc Loc: Toll Method:<br>0.00                                                                                                                                                                             | Hov acs        | s eg loc:       |           |          | Uza: Los Ar<br>Beach-Sant | ngeles-Long<br>a Ana | Sub-Area:                                              | Sub-R                                                                          | egion:                                                                            |                          |
| Program Code: CAX62 - HIGHWAY/ROAD IMP-LANE ADD'S                                                                                                                                                                          | W/HOVLN:       | RS Stop Lo      | )C:       |          | CTIPS ID                  |                      | FA #                                                   |                                                                                | PPNO                                                                              |                          |
|                                                                                                                                                                                                                            | PHASE          | PRIOR           | 20/21     | 21/22    | 22/23                     | 3 23/24              | 24/25                                                  | 25/26                                                                          | BEYOND                                                                            | PROG TOTAL               |
| MR20H - Measure R 20% Highway                                                                                                                                                                                              | PE             | \$4,349         | \$4,000   |          |                           |                      |                                                        |                                                                                |                                                                                   | \$8,349                  |
|                                                                                                                                                                                                                            | RW             | \$0             | \$0       |          |                           |                      |                                                        |                                                                                |                                                                                   | \$0                      |
|                                                                                                                                                                                                                            | CON            | \$0             | \$0       |          |                           |                      |                                                        |                                                                                |                                                                                   | \$0                      |
|                                                                                                                                                                                                                            | SUBTOTAL       | \$4,349         | \$4,000   |          |                           |                      |                                                        |                                                                                |                                                                                   | \$8,349                  |
|                                                                                                                                                                                                                            | TOTAL          | \$4,349         | \$4,000   |          |                           |                      |                                                        |                                                                                |                                                                                   | \$8,349                  |
|                                                                                                                                                                                                                            | TOTAL PE:      | \$8,349         | TOTAI     | . RW: \$ | \$0                       | TOTAL C              | ON: \$0                                                | TOTAL                                                                          | PROGRAMM                                                                          | ED: \$8,349              |
| - General Comment: Project description and postmiles changed to reflect la - Modeling Comment: No significant change made TCM Comment: No significant change made Amendment Comment: No significant change made Narrative: | test PA&ED pro | oject descripti | חי.       |          |                           |                      |                                                        |                                                                                |                                                                                   |                          |
| Last Revised Adoption 21-00 - SCAG PENDING                                                                                                                                                                                 |                |                 | Change    | e reaso  | on:Carry ov               | er from 19T          | IP                                                     | Total P                                                                        | Project Cost                                                                      | t \$8,349                |

| DATE          | FROM     | то                                                                                                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|---------------|----------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 5-30-<br>2019 | DUKE CRM | Native American<br>Heritage<br>Commission<br>(NAHC)                                                   | Sacred lands file search request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| 6-4-<br>2019  | Caltrans | NAHC                                                                                                  | Sacred lands file search request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| 6-14-<br>2019 | NACH     | DUKE CRM                                                                                              | Letter providing results of the sacred lands file search, which were negative, and five Tribes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| 6-19-<br>2019 | NAHC     | Caltrans                                                                                              | Letter providing results of the sacred lands file search, which were negative, and five Tribes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| 7-9-2019      | Caltrans | Andrew Salas and<br>Matthew<br>Teutimez,<br>Gabrieleño Band<br>of Mission<br>Indians – Kizh<br>Nation | <ul> <li>Meeting at Tribal office to discuss the SR-91 <ul> <li>Auxiliary Lane Project. Mr. Salas and Mr. Teutimez</li> <li>stated that they needed more information on the</li> <li>project elements for the Tribe to assess the potential</li> <li>for the project to affect Tribal cultural resources. Ms.</li> <li>Dahdul did not have that information as the</li> <li>Department is in the early stages of project design;</li> <li>she stated that she would provide this information as</li> <li>soon as it is available. In the meantime, Mr. Salas</li> <li>and Mr. Teutimez provided information about</li> <li>prehistoric land use of the area to be considered</li> <li>during the cultural studies, as follows.</li> </ul> </li> <li>The project is situated between two known ethnohistoric village sites (see below).</li> <li>The village of <i>Tibahangna</i> was once located about 2.5 miles south of the project area. Historic maps also show that the location of the village was later within the boundaries of Rancho Los Cerritos and that a Jabonera (soap factory) was established within the rancho.</li> <li>The second village (<i>Abahangna</i>?) was located about 7.2 miles north of the project area. This was also the location of another Jabonera.</li> <li>Mr. Teutimez explained that Jaboneras were established in areas containing the resources available for soap production. As would be expected, these resources were originally managed and used by local Native</li> <li>American populations and were part of a village's resource use area. Therefore, the locations of Jaboneras (as plotted in historic maps) are good indicators of the locations of ancient village sites.</li> </ul> |  |  |

| DATE | FROM | то | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |      |    | <ul> <li>associated with the San Gabriel River. The same map shows a Jabonera Road to the east of the project. An 1881 map shows the San Gabriel River flowing to the west of the project area.</li> <li>Artesia Boulevard (to the south of the project is considered to have been an old trade route that ran in an east-west direction.</li> <li>Mr. Teutimez suggested that the Department also research the following items, which may provide more information on the land use history of the project location: <ul> <li>a) California Cooperative Colony Tract – shown on USGS (?) 1898 map</li> <li>b) Lemuel Carpenter: proprietor of soap factory at Pico's crossing on the San Gabriel River.</li> <li>c) McCawley 1996:58?</li> <li>d) Bernice Eastman Johnston ethnography published by the Southwest Museum in 1962.</li> <li>e) There was a Barnes or Barton wagon trail in a nearby rancho (Rancho Barton? or Barnes?). Historic maps show Indian workcamps associated with the rancho. Mr. Salas believes these may have been in proximity to the project, but he could not be sure without looking at the historic maps. Ms. Dahdul stated that she may have these maps for another project along SR-91 and that she would check the Department's files.</li> </ul> </li> </ul> |
|      |      |    | In a follow-up <b>email</b> dated <b>July 9, 2019</b> , Mr. Salas provided a snapshot of a Rancho map, which is currently in the Bixby Ranch area. The email also provides information on the map from a local historian, Doug, as well as links to additional information on Rancho Los Alamitos.<br>http://www.rancholosalamitos.com/aboutus/woodbridge_architect ural_narrative.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| DATE      | FROM     | то                                                                                                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|----------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |          |                                                                                                       | In a second email on the same day (July 9), Mr. Salas provided a<br>link to an LA Times article that discusses the discovery of an<br>Indian burial site at Arco's Carson refinery, as well as another link<br>to a map of the location.<br>• Arco's Carson Refinery article:<br>https://www.latimes.com/archives/la-xpm-1998-dec-11-<br>me-52990-story.html<br>• Mr. Salas also provided this link to a map: Gabrieleno<br>Indians 's Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7-15-2019 | Caltrans | Andrew Salas,<br>Gabrieleño Band<br>of Mission<br>Indians – Kizh<br>Nation                            | Follow-up email (10:58 am) providing a summary of the consultation meeting, and action items. Specifically, Caltrans will provide the archaeological consulting firm with the summary of the consultation meeting and request that the consultant work with the Tribe on gathering information for the cultural studies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4-14-2020 | Caltrans | Andrew Salas and<br>Matthew<br>Teutimez,<br>Gabrieleño Band<br>of Mission<br>Indians – Kizh<br>Nation | <ul> <li>Teleconference call to discuss the SR-91 Auxiliary<br/>Lane Project. Mr. Salas and Mr. Teutimez provided<br/>additional information about prehistoric land use of<br/>the area to be considered during the cultural studies,<br/>as follows.</li> <li>Historically, the project was located along the<br/>meandering course of the Los Angeles River and that<br/>a Gabrieleno trade route traversed in a north-south<br/>direction along present-day Cherry Avenue. This<br/>route was the precursor to the Union Pacific Railroad<br/>that runs between Cherry and Paramount Avenues.<br/>Mr. Salas further stated that the project lies between<br/>two ethnohistoric villages: <i>Tibahangna</i> and<br/><i>Abahangna</i>.</li> <li>In two follow-up emails on the same day, Mr. Salas<br/>provided the two additional maps that show the<br/>locations of the two villages. Both maps provide<br/>different spellings for the villages, but these are<br/>consistent with <i>Tibahangna</i> and <i>Abahangna</i> that<br/>were discussed in our July 9, 2019 meeting.</li> </ul> |

| DATE          | FROM                                 | то                                                                                                                                                                                                                                                                                | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                                      |                                                                                                                                                                                                                                                                                   | Because the project is located along the historic<br>course of the Los Angeles River and between two<br>known ethnohistoric Gabrieleno village sites<br>connected by an ancient trade route, the Tribe is<br>concerned that the project may impact unknown<br>subsurface archaeological deposits at this location.<br>Therefore, the Tribe is requesting specific<br>information about the exact location and extent of all<br>ground disturbing activities in the project area as<br>well as archaeological and Native American<br>monitoring of the project location. |
| 4-20-<br>2020 | Caltrans                             | Andrew Salas,<br>Gabrieleño Band<br>of Mission<br>Indians – Kizh<br>Nation                                                                                                                                                                                                        | Follow-up email (11:52 am) providing a summary of the consultation meeting, and action items. Specifically, Caltrans will provide the archaeological consulting firm with the summary of the consultation meeting and request that the consultant work with the Tribe on gathering information for the cultural studies.                                                                                                                                                                                                                                                |
| 5-8-<br>2020  | DUKE CRM<br>on behalf of<br>Caltrans | Andrew Salas,<br>Gabrieleño Band<br>of Mission<br>Indians – Kizh<br>Nation                                                                                                                                                                                                        | Section 106 and AB-52 on going consultation letter and request<br>for information regarding any cultural resources or sacred lands<br>that may be of concern as a result of the proposed project. Letter<br>and map sent via Certified Mail.                                                                                                                                                                                                                                                                                                                            |
| 5-8-<br>2020  | DUKE CRM<br>on behalf of<br>Caltrans | Anthony Morales,<br>Gabrieleno/<br>Tongva San<br>Gabriel Band of<br>Mission Indians                                                                                                                                                                                               | Section 106 and AB-52 initial consultation letter and request for<br>information regarding any cultural resources or sacred lands that<br>may be of concern as a result of the proposed project. Letter and<br>map sent via Certified Mail.                                                                                                                                                                                                                                                                                                                             |
| 5-8-2020      | DUKE CRM<br>on behalf of<br>Caltrans | <ol> <li>Charles         Alvarez,<br/>Gabrielino-<br/>Tongva Tribe     </li> <li>Robert         Dorame,<br/>Gabrielino         Tongva<br/>Indians of<br/>California         Tribal Council     </li> <li>Sandonne         Goad,<br/>Gabrielino/<br/>Tongva Nation     </li> </ol> | Section 106 initial consultation letter and request for information<br>regarding any cultural resources or sacred lands that may be of<br>concern as a result of the proposed project. Letters and maps sent<br>via Certified Mail.                                                                                                                                                                                                                                                                                                                                     |
| 5-15-<br>2020 | DUKE CRM<br>on behalf of<br>Caltrans | Andrew Salas,<br>Gabrieleño Band<br>of Mission<br>Indians – Kizh<br>Nation                                                                                                                                                                                                        | Voice mails left on Mr. Sala's cell phone and office lines (10:17am) and an email (10:46) to follow up with Chairperson Salas and to inform him of the negative reconnaissance-level survey results.                                                                                                                                                                                                                                                                                                                                                                    |
| 5-15-<br>2020 | DUKE CRM<br>on behalf of             | Anthony Morales,<br>Gabrieleno/                                                                                                                                                                                                                                                   | Voice mails left on Mr. Morales's cell phone and office lines (10:55am) and an email (11:01) to follow up with Chairperson                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| DATE          | FROM                                                                                                     | то                                                                                                                                          | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | Caltrans                                                                                                 | Tongva San<br>Gabriel Band of<br>Mission Indians                                                                                            | Morales and to inform him of the negative reconnaissance-level survey results.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 5-15-2020     | DUKE CRM<br>on behalf of<br>Caltrans                                                                     | <ol> <li>Charles<br/>Alvarez,<br/>Gabrielino-<br/>Tongva Tribe</li> <li>Sandonne<br/>Goad,<br/>Gabrielino/<br/>Tongva<br/>Nation</li> </ol> | Voice mail left on Mr. Alvarez's phone lines (11:38am) and an<br>email (11:49) to follow up with him and to inform him of the<br>negative reconnaissance-level survey results.<br>Voice mail left on Chairperson Goad's phone line (11:40 am) and<br>an email (11:57) to follow up and to inform Chairperson Goad of<br>the negative reconnaissance-level survey results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 5-15-<br>2020 | DUKE CRM<br>on behalf of<br>Caltrans                                                                     | Robert Dorame,<br>Gabrielino<br>Tongva Indians<br>of California<br>Tribal Council                                                           | Called and spoke with Chairperson Dorame (11:38am). He requested an email with the consultation request letter and map. DUKE CRM followed up with him with the results of the reconnaissance level survey and requested materials (11:59am).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5-15-2020     | Andrew Salas<br>and Matthew<br>Teutimez,<br>Gabrieleño<br>Band of<br>Mission<br>Indians –<br>Kizh Nation | DUKE CRM on<br>behalf of Caltrans                                                                                                           | Mr. Salas and Mr. Teutimez called DUKE CRM (2:11pm) and<br>discussed the sensitivity of the Project at length. Mr. Salas<br>indicated that the area is sensitive for prehistoric sites and<br>Gabrieleño villages. In particular he finds that the Project is within<br>the area known as Tiba (alternately called Tivaaxa'Anga).<br>because this is the area that later became the Los Cerritos Land<br>Grant. He thinks that the land grant area is equivalent to the place<br>name because the Gabrieleño people of the place formed the<br>inhabitants of the land grant. He informed DUKE CRM that<br>archaeologists make mistakes by indicating a location like Tiba as<br>a single dot on a map. He indicated that the correct way to think of<br>this place name, as with many Gabrieleño villages, is as a wide<br>area. He thinks that Spanish baptismal records support this<br>interpretation as so many indicate that a few thousand <i>idios</i> would<br>be baptized from a location like Los Cerritos Land Grant, but as<br>they did not live in concentrated locations of a few thousand, the<br>baptismal record means an area, not a single location. During the<br>course of the phone call, Mr. Salas and Mr. Teutimez emailed<br>DUKE CRM, see below. |
| 5-15-2020     | Andrew Salas<br>and Matthew<br>Teutimez,<br>Gabrieleño<br>Band of<br>Mission<br>Indians –<br>Kizh Nation | DUKE CRM on<br>behalf of Caltrans                                                                                                           | Mr. Salas emailed DUKE CRM (2:48, 2:52, 3:05, and 3:12pm) during the 5/15 phone call. Mr. Salas provided supplemental materials as attachments including Rancho Gertudes map, a newspaper clipping from 1927, an article by P. Spitzzeri <i>All Over the Map: Spanish and Mexican, Ranchos of Los Angeles County, 1929</i> , and a single page excerpt from McCawly 1996.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5-19-<br>2020 | Anthony<br>Morales,<br>Gabrieleno/<br>Tongva San<br>Gabriel Band                                         | DUKE CRM on<br>behalf of Caltrans                                                                                                           | Chairperson Morales called DUKE CRM (4:05pm) and expressed<br>concern the Project could impact cultural resources and water<br>resources. He indicated that due to proximity to the LA River and<br>Compton Creek the area is sensitive for Gabrielino sites. He also<br>indicated that the discovery of human remains near the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| DATE          | FROM                                                           | то                                                                                                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | of Mission<br>Indians                                          |                                                                                                       | intersection of the 22 and 405 a few months ago seems like a similar situation with the elevated roadbed of the Project. He requested that Native American monitoring and Archaeological monitoring be undertaken during excavation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 5-20-<br>2020 | Andrew Salas<br>Band of<br>Mission<br>Indians –<br>Kizh Nation | DUKE CRM on<br>behalf of Caltrans                                                                     | Mr. Salas emailed DUKE CRM (10:51) and provided<br>supplemental materials as links including a website and<br>documents. The website was:<br><u>https://www.rancholoscerritos.org/about-hub/history-hub/</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6-17-<br>2020 | DUKE CRM<br>on behalf of<br>Caltrans                           | Robert Dorame,<br>Gabrielino<br>Tongva Indians<br>of California<br>Tribal Council                     | DUKE CRM emailed Chairperson Dorame the NA consult letter<br>on behalf of Caltrans (1:38pm) as preparation of a follow-up<br>phone call (3:06pm). Mr. Dorame recommends that in the event of<br>the discovery of cultural material and burials from the Tonga<br>people, that the Gabrielino Tongva Indians of California Tribal<br>Council be notified, regardless of any finding about MLD<br>decisions by the NAHC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 9-8-2020      | Caltrans                                                       | Andrew Salas<br>and Matthew<br>Teutimez,<br>Gabrieleño Band<br>of Mission<br>Indians – Kizh<br>Nation | Discussed contents of graphic in the draft ASR showing village<br>locations. The Kizh Nation objected to the placement of village<br>locations on the maps as these may give the reader the wrong<br>impression that villages were contained within a small area. They<br>also stated that the boundaries of villages were fluid and<br>encompassed resource procurement areas; so a dot on a map does<br>not capture the complexity and fluidity of Gabrieleño settlements.<br>For this reason, you requested that all maps showing village<br>locations be removed from the report.<br>Caltrans agreed to remove the graphic from the ASR and<br>incorporate text regarding Gabrieleño exploitation of the entire<br>regions and trails connecting major villages.<br>The Kizh Nation expressed continued concerns regarding the<br>possibility that buried deposits may be impacted by the project.<br>Ms. Dahdul of Caltrans summarized the report findings, i.e.<br>research and survey did not discover cultural resources and that<br>the project will be conducted in fill.<br>It was determined that Metro (in coordination with Caltrans and<br>other stakeholders) will implement a limited monitoring program<br>that will ensure Kizh Nation concerns are satisfactorily resolved.<br>A monitoring plan will be prepared and will outline the conditions<br>and procedures for monitoring. |
| 10-2-2020     | DUKE CRM<br>on behalf of<br>Caltrans                           | Anthony<br>Morales,<br>Gabrieleno/<br>Tongva San<br>Gabriel Band of<br>Mission Indians                | <ul> <li>Voicemail (1:35) and email (2:00) summarizing the results of the meetings between Caltrans and groups representing Native American interests in the region. The message and email stated:</li> <li>The graphic in the draft ASR showing village locations has been removed.</li> <li>Text has been edited to reflect the fluid boundaries of villages that encompassed resource procurement areas within the region, as well the presence to established trails connecting villages.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| DATE | FROM | то | DESCRIPTION                                                                                                                                                                                                                                                                                                                    |
|------|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |      |    | • It has been determined that Metro (in coordination with<br>Caltrans and other stakeholders) will implement a limited<br>monitoring program that will ensure Native American<br>concerns are satisfactorily resolved. A monitoring plan<br>will be prepared and will outline the conditions and<br>procedures for monitoring. |

**Appendix D. Species Lists** 

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# EB State Route 91 – Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement Project List of Species Observed in the BSA on January 22, 2018

| Scientific Name           | Common Name            | Native Status       |  |  |  |  |  |  |
|---------------------------|------------------------|---------------------|--|--|--|--|--|--|
|                           | Plant Species          |                     |  |  |  |  |  |  |
| ANGIOSPERMS (EUDICOTS)    |                        |                     |  |  |  |  |  |  |
| AIZOACEAE                 | FIG-MARIGOLD FAMILY    |                     |  |  |  |  |  |  |
| Carpobrotus edulis        | sea fig                | invasive non-native |  |  |  |  |  |  |
| ANACARDIACEAE             | SUMAC FAMILY           |                     |  |  |  |  |  |  |
| Cupaniopsis anacardioides | carrotwood             | non-native          |  |  |  |  |  |  |
| Pistacia chinensis        | Chinese pistache       | non-native          |  |  |  |  |  |  |
| Schinus terebinthifolius  | Brazilian pepper tree  | invasive non-native |  |  |  |  |  |  |
| APOCYNACEAE               | DOGBANE FAMILY         |                     |  |  |  |  |  |  |
| Nerium oleander           | oleander               | non-native          |  |  |  |  |  |  |
| ASTERACEAE                | ASTER FAMILY           |                     |  |  |  |  |  |  |
| Baccharis salicifolia     | mule fat               | native              |  |  |  |  |  |  |
| Baccharis pilularis       | coyote brush           | native              |  |  |  |  |  |  |
| Bidens pilosa             | hairy beggarticks      | non-native          |  |  |  |  |  |  |
| Encelia californica       | California brittlebush | native              |  |  |  |  |  |  |
| Galinsoga parviflora      | gallant soldier        | non-native          |  |  |  |  |  |  |
| Helminthotheca echioides  | bristly ox-tongue      | invasive non-native |  |  |  |  |  |  |
| Lactuca serriola          | prickly lettuce        | non-native          |  |  |  |  |  |  |
| Sonchus oleraceous        | common sow thistle     | non-native          |  |  |  |  |  |  |
| BIGNONIACEAE              | TRUMPET-CREEPER FAMILY |                     |  |  |  |  |  |  |
| Jacaranda mimosifolia     | jacaranda              | non-native          |  |  |  |  |  |  |
| BRASSICACEAE              | CABBAGE FAMILY         |                     |  |  |  |  |  |  |
| Raphanus sativus          | cultivated radish      | invasive non-native |  |  |  |  |  |  |
| Sisyimbrium irio          | London rocket          | native              |  |  |  |  |  |  |
| CHENOPDIACEAE             | GOOSEFOOT FAMILY       |                     |  |  |  |  |  |  |
| Chenopodium album         | lambs quarters         | non-native          |  |  |  |  |  |  |
| Salsola tragus            | Russian thistle        | invasive non-native |  |  |  |  |  |  |
| CRASSULACEAE              | STONECROP FAMILY       |                     |  |  |  |  |  |  |
| Crassula ovata            | jade plant             | non-native          |  |  |  |  |  |  |
| EUPHORBIACEAE             | SPURGE FAMILY          |                     |  |  |  |  |  |  |
| Euphorbia maculata        | spotted spurge         | non-native          |  |  |  |  |  |  |
| Ricinus communis          | castor bean            | invasive non-native |  |  |  |  |  |  |
| FABACEAE                  | PEA FAMILY             |                     |  |  |  |  |  |  |
| Acacia longifolia         | Sydney golden wattle   | non-native          |  |  |  |  |  |  |
| Acacia melanoxylon        | blackwood acacia       | invasive non-native |  |  |  |  |  |  |
| Acacia redolens           | bank catclaw           | non-native          |  |  |  |  |  |  |
| Ceratonia siliqua         | carob                  | non-native          |  |  |  |  |  |  |
| FAGACEAE                  | BEECH FAMILY           |                     |  |  |  |  |  |  |
| Quercus ilex              | holly oak              | non-native          |  |  |  |  |  |  |
| GERANIACEAE               | GERANIUM FAMILY        |                     |  |  |  |  |  |  |
| Erodium botrys            | broad leaf filaree     | non-native          |  |  |  |  |  |  |
| Erodium cicutarium        | red stemmed filaree    | invasive non-native |  |  |  |  |  |  |

| LAMIACEAE                 | MINT FAMILY             |                     |
|---------------------------|-------------------------|---------------------|
| Lavendula sp.             | lavender                | non-native          |
| Rosmarinus officinalis    | rosemary                | non-native          |
| LYTHRACEAE                | LOOSESTRIFE FAMILY      |                     |
| Lagerstroemia indica      | crape myrtle            | non-native          |
| MALVACEAE                 | MALLOW FAMILY           |                     |
| Ceiba speciosa            | floss silk tree         | non-native          |
| Malva parviflora          | cheeseweed              | non-native          |
| MYRTACEAE                 | MYRTLE FAMILY           |                     |
| Corymbia citriodora       | lemon-scented gum       | non-native          |
| Eucalyptus camaldulensis  | red gum                 | non-native          |
| Eucalyptus polyanthemos   | silver dollar gum       | non-native          |
| Eucalyptus sideroxylon    | red iron bark           | non-native          |
| Malaleuca viminalis       | weeping bottlebrush     | non-native          |
| Syzygium australe         | brush cherry            | non-native          |
| NYCTAGINACEAE             | FOUR-O'CLOCK FAMILY     |                     |
| Bougainvillea spectabilis | great bougainvillea     | non-native          |
| PLATANACEAE               | PLANE-TREE FAMILY       |                     |
| Platanus racemosa         | California sycamore     | native              |
| PLUMBAGINACEAE            | LEADWORT FAMILY         |                     |
| Plumbago auriculata       | Cape leadwort           | non-native          |
| SAPINDACEAE               | SOAPBERRY               |                     |
| Koelreuteria bipinnata    | goldenrain tree         | non-native          |
| SIMAROUBACEAE             | QUASSIA FAMILY          |                     |
| Ailanthus altissima       | tree of heaven          | invasive non-native |
| TROPAEOLACEAE             | NASTURTIUM FAMILY       |                     |
| Tropaeolum majus          | nasturtium              | non-native          |
| ULMACEAE                  | ELM FAMILY              |                     |
| Ulmus parvifolia          | Chinese elm             | non-native          |
| VERBENACEAE               | VERBENA FAMILY          |                     |
| Lantana camara            | lantana                 | invasive non-native |
| VITACEAE                  | GRAPE FAMLY             |                     |
| Vitis californica         | California grape        | native              |
| ANGIOSPERMS (MONOCOTS)    |                         |                     |
| AGAVACEAE                 | CENTURY PLANT FAMILY    |                     |
| Agava americana           | American century plant  | non-native          |
| ARECACEAE                 | PALM FAMILY             |                     |
| Phoenix canariensis       | Canary Island date palm | non-native          |
| Phoenix dactylifera       | date palm               | non-native          |
| Trachycarpus fortunei     | windmill palm           | non-native          |
| Washingtonia robusta      | Mexican fan palm        | invasive non-native |
| ASPARAGACEAE              | ASPARAGUS FAMILY        |                     |
| Asparagus setaceus        | asparagus fern          | non-native          |
| ASPHODELACEAE             | ASPHODEL FAMILY         |                     |
| Aloe sp.                  | aloe                    | non-native          |

| daylily                             | non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GRASS FAMILY                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| bermuda grass                       | invasive non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ripgut brome                        | invasive non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| crimson fountaingrass               | invasive non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| smilo grass                         | non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PINE FAMILY                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Canary Island pine                  | non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| queen palm                          | non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Common Name                         | Native Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Wildlife Species                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mallard                             | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| California scrub-jay                | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| red-tailed hawk                     | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Anna's hummingbird                  | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| rock pigeon                         | non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| American crow                       | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| common raven                        | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| American peregrine falcon           | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| house finch                         | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| western gull                        | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mockingbird                         | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| house sparrow                       | non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| bushtit                             | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| black phoebe                        | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| cliff swallow                       | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| yellow-rumped warbler               | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| European starling                   | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| western honey bee                   | non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| mourning cloak butterfly            | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| western tiger swallowtail butterfly | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| cabbage white butterfly             | non-native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| house cat                           | domesticated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| western fence lizard                | native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                     | daylily<br>GRASS FAMILY<br>bermuda grass<br>ripgut brome<br>crimson fountaingrass<br>smilo grass<br>PINE FAMILY<br>Canary Island pine<br>queen palm<br>Common Name<br>Wildlife Species<br>Mildlife Species<br>Mildlife Species<br>Mildlife Species<br>Mildlife Species<br>California scrub-jay<br>red-tailed hawk<br>Anna's hummingbird<br>rock pigeon<br>American crow<br>common raven<br>American peregrine falcon<br>house finch<br>western gull<br>mockingbird<br>house sparrow<br>bushtit<br>black phoebe<br>cliff swallow<br>yellow-rumped warbler<br>European starling<br>Western honey bee<br>mourning cloak butterfly<br>western tiger swallowtail butterfly<br>cabbage white butterfly<br>western fence lizard |

|                                                 | Sta              | tus           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Habitat            | Rationale for Community                                                                                                    |  |
|-------------------------------------------------|------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------|--|
| Common Names                                    | Federal<br>USFWS | State<br>CDFW | General Habitat Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Present/<br>Absent | Presence/Absence                                                                                                           |  |
| Natural Communities                             |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                                                                                                                            |  |
| California Walnut<br>Woodland                   |                  | S2.1          | California Walnut Woodlands are<br>comprised of open tree canopies locally<br>dominated by the California black walnut<br>( <i>Juglans californica</i> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A                  | There are no California Walnut<br>Woodland communities in the BSA.<br>Therefore, this community is absent<br>from the BSA. |  |
| Southern Coastal Salt<br>Marsh                  |                  | S2.1          | Southern Coastal Salt Marsh communities<br>are found in bays, lagoons, and estuaries<br>along the coast from Point Conception to<br>the Mexican border. This community<br>consists of highly productive, herbaceous,<br>and salt-tolerant hydrophytes that form<br>moderate to dense cover. Characteristic<br>species include Watson's saltbush<br>( <i>Atriplex watsonii</i> ), Saltwort ( <i>Batis</i><br><i>maritima</i> ), California boxthorn ( <i>Lycium</i><br><i>californicum</i> ), Shore grass<br>( <i>Monanthochloe littoralis</i> ), California<br>seablite ( <i>Suaeda californica</i> ), and Parish's<br>glasswort ( <i>Arthrocnemum subterminale</i> ). | A                  | There are no bays, lagoons, or<br>estuaries in the BSA. Therefore, this<br>community is absent from the BSA.               |  |
| Southern Sycamore<br>Alder Riparian<br>Woodland |                  | S4            | The Southern Sycamore Alder Riparian<br>Woodland community consists of tall,<br>open, broad-leafed, winter-deciduous<br>streamside woodland dominated by<br>western sycamore ( <i>Platanus racemosa</i> )<br>and often also white alder ( <i>Alnus<br/>rhombifolia</i> ). These stands seldom form<br>closed canopy forests, and even may<br>appear as trees scattered in a shrubby<br>thicket of sclerophyllous and deciduous<br>species.                                                                                                                                                                                                                             | A                  | There is no streamside woodland<br>within the BSA. Therefore, this<br>community is absent from the BSA.                    |  |
| Walnut Forest                                   |                  | S1.1          | Walnut forests are cold-deciduous<br>woodlands dominated by California walnut.<br>The understories are composed of coastal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A                  | There are no California walnut woodlands in the BSA. Therefore, this                                                       |  |

# Table 1: Listed and Proposed Special-Status Natural Communities with Potential to be in the BSA

|  | scrub, chaparral, and non-native grass | community is absent from the BSA. |
|--|----------------------------------------|-----------------------------------|
|  | species.                               |                                   |

Table Key: Absent [A] – The vegetation community was not observed in the BSA during the biological survey. Habitat Present [HP] – There is habitat present within the BSA. State Rare (SR); S1 = Critically Imperiled - extreme rarity (often five or fewer observations) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from California; S2 = Imperiled- rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or California; S3 = Vulnerable- restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation; S4 = Apparently Secure - uncommon but not rare; some cause for long-term concern due to declines or other factors.

\*Information for the habitat requirements was obtained from the following sources: (Holland, 1986), (Jepson eFlora Project, 2019), and (Sawyer, Keeler-Wolf, & Evans, 2012).

| Common and                                   | Status           |               |      |                                                                                                                                                                                                                                                                                                                                      | Habitat            | Pationalo for Species                                                                                                         |
|----------------------------------------------|------------------|---------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Scientific Names                             | Federal<br>USFWS | State<br>CDFW | CNPS | General Habitat Description*                                                                                                                                                                                                                                                                                                         | Present/<br>Absent | Presence/Absence                                                                                                              |
| Plants                                       |                  |               |      |                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                               |
| Aphanisma blitoides<br>Aphanisma             |                  |               | 1B.2 | The aphanisma is an annual herb<br>found in coastal dunes, coastal, and<br>coastal bluff scrub on sandy or<br>gravelly soils.<br>Typical blooming period: February<br>to June<br>Typical elevation range: Three to<br>1,000 feet                                                                                                     | A                  | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Arenaria paludicola</i><br>Marsh sandwort | FE               | SE            | 1B.1 | The marsh sandwort is a perennial<br>stoloniferous herb found in marshes<br>and swamps on sandy substrate.<br>This species grows up through<br>dense mats of <i>Typha</i> , <i>Juncus</i> ,<br><i>Scirpus</i> , etc. in freshwater marsh.<br>Typical blooming period: May to<br>August<br>Typical elevation range: 10 to 558<br>feet | A                  | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

# Table 1: Listed and Proposed Special-Status Plant Species with Potential to be in the BSA

| <i>Astragalus brauntonii</i><br>Braunton's milk-vetch                            | FE |    | 1B.1 | The Braunton's milk-vetch is a<br>perennial herb found in chaparral,<br>coastal scrub, and valley and<br>foothill grassland. This species may<br>be found in recently burned or<br>naturally disturbed areas. This<br>species is restricted to carbonate<br>limestone substrates within the<br>Santa Monica, San Gabriel, and<br>Santa Ana Mountain ranges.<br>Typical blooming period: January to<br>August<br>Typical elevation range:13 to 2,100<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. In<br>addition, this species was not<br>observed during the biological<br>surveys, which were<br>conducted during the typical<br>blooming period for this<br>species. Therefore, this<br>species is not expected to be<br>in the BSA. |
|----------------------------------------------------------------------------------|----|----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Astragalus<br>pycnostachyus var.<br>lanosissimus<br>Ventura Marsh milk-<br>vetch | FE | SE | 1B.1 | The Ventura Marsh milk-vetch is a<br>perennial herb generally found in<br>coastal dunes, coastal scrub and<br>marshes within reach of high tide or<br>protected by barrier beaches.<br>Typical blooming period: June to<br>October<br>Typical elevation range: Three to<br>115 feet                                                                                                                                                                         | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                                                                                                                                                                                                       |
| <i>Astragalus tener</i> var <i>. titi</i><br>Coastal dunes milk-<br>vetch        | FE | SE | 1B.1 | The coastal dunes milk-vetch is a<br>small annual plant found in coastal<br>bluff scrub, coastal dunes, and<br>coastal prairie habitats. This<br>species is found in moist, sandy<br>depressions of bluffs or dunes<br>along and near the Pacific Ocean.<br>Typical blooming period: March to<br>May<br>Typical elevation range: Three to<br>147 feet                                                                                                       | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                                                                                                                                                                                                       |

| <i>Atriplex coulteri</i><br>Coulter's saltbush                                     | <br> | 1B.2 | The Coulter's saltbrush is a<br>perennial herb found in coastal bluff<br>scrub, coastal dunes, coastal scrub,<br>and valley and foothill grassland in<br>open sites with low lying clay or<br>alkaline soils.<br>Typical blooming period: March to<br>October<br>Typical elevation range: 82 to 1,443<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
|------------------------------------------------------------------------------------|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------|
| <i>Atriplex pacifica</i><br>South coast saltscale                                  | <br> | 1B.2 | The south coast saltscale is an<br>annual herb found on alkali playa,<br>coastal dunes, coastal and coastal<br>bluff scrub on alkali soils.<br>Typical blooming period: March to<br>October<br>Typical elevation range: Zero to 459<br>feet                                                                   | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Atriplex parishii</i><br>Parish's brittlescale                                  | <br> | 1B.1 | The Parish's brittlescale is an<br>annual herb found in vernal pools,<br>chenopod scrub, and playas. This<br>species is usually found on drying<br>alkali flats with fine soils.<br>Typical blooming period: June to<br>October<br>Typical elevation range: 82 to 6,234<br>feet                               | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Atriplex serenana</i> var <i>.</i><br><i>davidsonii</i><br>Davidson's saltscale | <br> | 1B.2 | The Davidson's saltscale is an<br>annual herb found in coastal bluff<br>scrub and coastal scrub in alkaline<br>soils.<br>Typical blooming period: April to<br>October                                                                                                                                         | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

|                                                         |    |    |      | Typical elevation range: 32 to 656 feet                                                                                                                                                                                                                                                                                                                                                                             |   |                                                                                                                               |
|---------------------------------------------------------|----|----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------|
| <i>Berberis nevinii</i><br>Nevin's barberry             | FE | SE | 1B.1 | The Nevin's barberry is a perennial<br>evergreen shrub, found in<br>chaparral, cismontane woodland,<br>coastal scrub, and riparian scrub.<br>This species often grows on steep,<br>north facing slopes or in low grade<br>sandy washes.<br>Typical blooming period: February<br>to June<br>Typical elevation range: 230 to<br>2,707 feet                                                                            | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Calochortus catalinae*</i><br>Catalina mariposa-lily |    |    | 4.2  | The Catalina mariposa-lily is a<br>perennial bulbiferous herb found in<br>open slopes or openings in brush<br>on heavy soils of valley and foothill<br>grassland, chaparral, coastal scrub,<br>and cismontane woodland habitats.<br>This species is primarily associated<br>with coastal sage scrub<br>communities.<br>Typical blooming period: February<br>to June<br>Typical elevation range: 49 to 2,296<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| Calochortus<br>plummerae<br>Plummer's mariposa-<br>lily |    |    | 4.2  | The Plummer's mariposa-lily is a<br>perennial bulbiferous herb<br>inhabiting dry rocky slopes, brushy<br>areas, and openings of chaparral.<br>This species may occasionally be<br>found in coastal scrub, valley and<br>foothill grassland, cismontane                                                                                                                                                              | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

|                                                                                        |      |      | woodland, and lower montane<br>coniferous forest from the Santa<br>Monica Mountains to the San<br>Jacinto Mountains. This species<br>prefers granitic or alluvial material<br>and can be very common after fire.<br>Typical blooming period: May to<br>July<br>Typical elevation range: 328 to<br>5,577 feet                                                                                                                                                                                |   |                                                                                                                               |
|----------------------------------------------------------------------------------------|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------|
| <i>Calochortus weedii</i> var.<br><i>intermedius</i><br>Intermediate mariposa-<br>lily |      | 1B.2 | The intermediate mariposa-lily is a<br>perennial bulbiferous herb found on<br>dry, rocky, open slopes and rock<br>outcrops, especially near sandstone<br>cliffs, in chaparral, coastal scrub,<br>and valley and foothill grassland.<br>Typical blooming period: May to<br>June<br>Typical elevation range: 344 to<br>2,805 feet                                                                                                                                                             | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Calystegia felix</i><br>Lucky morning-glory                                         | <br> | 1B.1 | The lucky morning-glory is an<br>annual rhizomatous herb found in<br>meadows, seeps, stream banks,<br>and riparian scrub. This species is<br>associated with somewhat poorly<br>drained alkali silt loam substrate<br>and is generally found on<br>floodplains with an average slope of<br>one percent. This species is<br>endemic to the inland basins of the<br>Los Angeles, San Gabriel, and<br>Santa Ana River watersheds and<br>has not been seen in Los Angeles<br>County since 1902. | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

|                                                                          |      |      | Typical blooming period: March to<br>September<br>Typical elevation range: 98 to 705<br>feet                                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                                              |
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| <i>Calystegia peirsonii*</i><br>Peirson's morning glory                  | <br> | 4.2  | The Peirson's morning glory is a<br>perennial rhizomatous herb found in<br>chaparral, coastal scrub, chenopod<br>scrub, cismontane woodland, lower<br>montane coniferous forest, and<br>valley and foothill grassland. This<br>species is often found in disturbed<br>areas, along roadsides, or in<br>grassy, open areas.<br>Typical blooming period: May to<br>June<br>Typical elevation range: 98 to 4,921<br>feet | A  | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                |
| <i>Camissoniopsis lewisii*</i><br>Lewis' evening-<br>primrose            | <br> | 3    | The Lewis' evening primrose is an<br>annual herb found in coastal strand,<br>foothill woodland, coastal sage<br>scrub, and valley grassland<br>communities in coastal dunes and<br>coastal scrub habitat. This species<br>is found in sandy or clay soils.<br>Typical blooming period: March to<br>June<br>Typical elevation range: Zero to 984<br>feet                                                               | A  | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                |
| <i>Centromadia parryi</i><br>ssp. <i>australi</i> s<br>Southern tarplant | <br> | 1B.1 | The southern tarplant is an annual<br>herb found in vernally wet areas<br>such as along the edges of<br>marshes and vernal pools, often in<br>association with valley and foothill                                                                                                                                                                                                                                    | HP | There are moist, disturbed<br>areas at the western extent of<br>the BSA under the SR-91<br>overpass; therefore, there is<br>potential for this species to be |

|                                                                                  |    |    |      | grasslands where competition from<br>other plants is limited by alkalinity,<br>seasonal soil saturation, or the<br>effects of human disturbance.<br>Typical blooming period: May to<br>November<br>Typical elevation range: Zero to<br>1,378 feet                                                                                                                                                                                                                                                                           |   | in the BSA.                                                                                                                   |
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| <i>Centromadia pungens</i><br>ssp <i>. laevis</i><br>Smooth tarplant             |    |    | 1B.1 | The smooth tarplant is an annual<br>herb found in alkali scrub, alkali<br>playas, and grasslands with alkaline<br>affinities. This species is found in<br>poorly drained flats, depressions,<br>waterway banks and beds,<br>grasslands, and disturbed sites.<br>This species is restricted to clay<br>and alkaline, silty-clay soils. This<br>species is found in San Bernardino,<br>Riverside, and San Diego Counties.<br>Typical blooming period: April to<br>September<br>Typical elevation range: Zero to<br>2,099 feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Chloropyron maritimum</i><br>ssp <i>. maritimum</i><br>Salt marsh bird's-beak | FE | SE | 1B.2 | The salt marsh bird's-beak is an<br>annual herb generally found in<br>coastal dunes and marshes and<br>swamps (coastal salt). This species<br>parasitizes many wetland plant<br>species.<br>Typical blooming period: May to<br>October<br>Typical elevation range: Zero to 98<br>feet                                                                                                                                                                                                                                       | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

| Clinopodium<br>mimuloides*<br>Monkey-flower savory                      | <br> | 4.2  | The monkey-flower savory is a<br>perennial herb found along<br>streambanks and in mesic sites in<br>north coast coniferous forest and<br>chaparral habitats in the Central<br>Coast, Outer South Coast, and<br>Western Transverse Ranges, and<br>San Gabriel Mountains.<br>Typical blooming period: June to<br>October<br>Typical elevation range: 1,000 to<br>5,905 feet             | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
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| <i>Convolvulus simulans*</i><br>Small-flowered<br>morning-glory         | <br> | 4.2  | The small-flowered morning-glory is<br>an annual herb found in chaparral<br>openings, coastal scrub, serpentine<br>seeps, and valley and foothill<br>grassland. This species grows on<br>wet clay or occasionally serpentine<br>soils. The species may be found on<br>serpentine ridges.<br>Typical blooming period: March to<br>July<br>Typical elevation range: 98 to 2,427<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Cuscuta obtusiflora</i> var.<br><i>glandulosa</i><br>Peruvian dodder | <br> | 2B.2 | The Peruvian dodder is an annual<br>vine (parasitic) that is found in<br>freshwater marshes and swamps.<br>This species is thought to be<br>extirpated in California.<br>Typical blooming period: July to<br>October<br>Typical elevation range: Zero to 164<br>feet                                                                                                                  | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

| <i>Dudleya multicaulis</i><br>Many-stemmed<br>dudleya                              |    |    | 1B.2 | The many-stemmed dudleya is a<br>perennial herb found in chaparral,<br>coastal scrub, and valley and<br>foothill grassland. This species is<br>often associated with heavy clay<br>soils in barrens, dry stony places, or<br>thinly vegetated openings.<br>Typical blooming period: May to<br>September<br>Typical elevation range: 49 to 2,592<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                                                                                                                                       |
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| <i>Eryngium aristulatum</i><br>var. <i>parishii</i><br>San Diego button-<br>celery | FE | SE | 1B.1 | The San Diego button-celery is an<br>annual/perennial herb that is found<br>in mesic soils in coastal scrub,<br>valley and foothill grassland, and<br>vernal pools.<br>Typical blooming period: April to<br>June<br>Typical elevation range: 65 to 2035<br>feet                                                                                         | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                                                                                                                                       |
| <i>Erysimum</i><br><i>suffrutescens*</i><br>Suffrutescent wallflower               |    |    | 4.2  | The suffrutescens wallflower is a<br>perennial herb found along coastal<br>bluff scrub, chaparral, coastal<br>dunes, and coastal scrub.<br>Typical blooming period: January to<br>July<br>Typical elevation range: Zero to 490<br>feet                                                                                                                  | A | The habitat typically preferred<br>by this species is absent. In<br>addition, this species was not<br>observed during the biological<br>surveys, which were<br>conducted during the typical<br>blooming period for this<br>species. Therefore, this<br>species is not expected to be<br>in the BSA. |
| <i>Helianthus nuttallii</i> ssp.<br><i>parishii</i><br>Los Angeles sunflower       |    |    | 1A   | The Los Angeles sunflower is a perennial rhizomatous herb found in coastal salt and freshwater marshes and swamps, damp meadows,                                                                                                                                                                                                                        | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                                                                                                                                       |

|                                                    |      |      | springs, and streams. With the<br>exception of recent observations in<br>the Newhall Ranch area, sightings<br>of this species in California are<br>historical and this species is<br>considered to have been extirpated<br>by urbanization.<br>Typical blooming period: August to<br>October<br>Typical elevation range: 32 to 5,495<br>feet                                                                |   |                                                                                                                               |
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| <i>Hordeum intercedens*</i><br>Vernal barley       | <br> | 3.2  | The vernal barley is an annual herb<br>found on seasonal and alkaline<br>soils near seasonal flows and<br>vernal pool habitats. This species is<br>found in coastal dunes, coastal<br>scrub, valley and foothill grassland<br>(saline flats and depressions),<br>saline riverbeds, and vernal pools.<br>Typical blooming period: March to<br>June<br>Typical elevation range: Zero to<br>3,281 feet         | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| Horkelia cuneata var.<br>puberula<br>Mesa horkelia | <br> | 1B.1 | The mesa horkelia is a perennial<br>herb found in chaparral (maritime),<br>oak woodland, and coastal scrub<br>habitat in sandy or gravelly soils.<br>This species was historically found<br>in the hills and plains of Los<br>Angeles, western Riverside,<br>southwestern San Bernardino, and<br>northwest San Diego Counties. The<br>majority of these populations have<br>been destroyed by urbanization. | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

|                                                                              |      |      | Typical blooming period:<br>February to September<br>Typical elevation range:<br>229 to 2,657 feet                                                                                                                                                                         |   |                                                                                                                               |
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| <i>Isocoma menziesii</i> var.<br><i>decumbens</i><br>Decumbent goldenbush    | <br> | 1B.2 | The decumbent goldenbush is a perennial shrub found in the South Coast, Southern Channel Islands, and Peninsular Ranges in disturbed chaparral and coastal scrub habitats.                                                                                                 | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
|                                                                              |      |      | Typical blooming period: April to<br>November<br>Typical elevation range: 33 to 443<br>feet                                                                                                                                                                                |   |                                                                                                                               |
| <i>Juglans californica*</i><br>Southern California<br>black walnut           | <br> | 4.2  | The southern California black<br>walnut is a perennial deciduous tree<br>that is found in chaparral,<br>cismontane woodland, coastal<br>scrub, and riparian woodland on<br>slopes, and in canyons and alluvial<br>habitats.<br>Typical blooming period: March to<br>August | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
|                                                                              |      |      | Typical elevation range: 164 to 2,953 feet                                                                                                                                                                                                                                 |   |                                                                                                                               |
| <i>Juncus acutus</i> ssp.<br><i>leopoldii*</i><br>Southwestern spiny<br>rush | <br> | 4.2  | The southwestern spiny rush is a<br>perennial rhizomatous herb found in<br>coastal dunes (mesic), meadows<br>and seeps (alkaline), and marshes<br>and swamps (coastal salt).<br>Typical blooming period: March to<br>June                                                  | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Juncus acutus</i> ssp.<br><i>leopoldii*</i><br>Southwestern spiny<br>rush | <br> | 4.2  | perennial rhizomatous herb found in<br>coastal dunes (mesic), meadows<br>and seeps (alkaline), and marshes<br>and swamps (coastal salt).<br>Typical blooming period: March to<br>June<br>Typical elevation range: Nine to                                                  | A | by this species is absent;<br>therefore, this species is no<br>expected to be in the BSA.                                     |

|                                                                                     |      |      | 2,952 feet                                                                                                                                                                                                                                                                                  |   |                                                                                                                                                                                             |
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| <i>Lasthenia glabrata</i> ssp.<br><i>coulteri</i><br>Coulter's goldfields           | <br> | 1B.1 | The Coulter's goldfield is an annual<br>herb found in coastal salt marshes<br>and swamps, playas and vernal<br>pools.<br>Typical blooming period: February<br>to June<br>Typical elevation range: Three to<br>4,003 feet                                                                    | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                               |
| <i>Lepidium virginicum</i><br>var. <i>robinsonii</i><br>Robinson's pepper-<br>grass | <br> | 4.3  | The Robinson's pepper-grass is an<br>annual herb found in chaparral and<br>coastal scrub. This species is found<br>on dry soils.<br>Typical blooming period: January to<br>July<br>Typical elevation range: Three to<br>2,904 feet                                                          | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                               |
| <i>Lycium californicum*</i><br>California box-thorn                                 | <br> | 4.2  | The California box-thorn is a<br>perennial shrub found on the<br>Northern and Southern Channel<br>Islands and along the South Coast<br>in coastal bluff scrub and coastal<br>scrub habitat.<br>Typical blooming period: December<br>to August<br>Typical elevation range: 16 t0 492<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                               |
| <i>Nama stenocarpa</i><br>Mud nama                                                  | <br> | 2B.2 | The mud nama is an<br>annual/perennial herb that is found<br>in marshes and swamps.<br>Typical blooming period: January to<br>July<br>Typical elevation range: 16 to 1,640                                                                                                                  | A | The habitat typically preferred<br>by this species is absent. In<br>addition, this species was not<br>observed during the biological<br>surveys, which were<br>conducted during the typical |

|                                                    |    |    |      | feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   | blooming period for this<br>species. Therefore, this<br>species is not expected to be<br>in the BSA.                          |
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| <i>Nasturtium gambelii</i><br>Gambel's watercress  | FE | ST | 1B.1 | Gambel's watercress is a perennial<br>herb known from interior wetland<br>areas of San Diego, San<br>Bernardino, and Los Angeles<br>Counties as well as coastal wetland<br>areas of San Luis Obispo and<br>Santa Barbara Counties. This<br>species is aquatic or semi-aquatic,<br>its herbage sometimes floats on<br>standing water or sprawls over wet<br>ground. This species is likely to be<br>found in undisturbed, brackish, and<br>freshwater habitats. This species is<br>found along lake margins, streams,<br>swamps, marshes, and ponds.<br>Typical blooming period: April to<br>October<br>Typical elevation range: 16 to 2,559<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Navarretia fossalis</i><br>Spreading navarretia | FT |    | 1B.1 | Spreading navarretia is an annual<br>herb found in vernal pools,<br>chenopod scrub, marshes and<br>swamps (freshwater), and playas.<br>This species is found on San Diego<br>hardpan and San Diego claypan<br>vernal pools; in swales and vernal<br>pools, often surrounded by other<br>habitat types.<br>Typical blooming period: April to<br>June                                                                                                                                                                                                                                                                                                 | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

|                                                                    |    |    |      | Typical elevation range: 98 to 4,265 feet                                                                                                                                                                                                                                                                                                    |   |                                                                                                                               |
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| <i>Navarretia prostrata</i><br>Prostrate vernal pool<br>navarretia |    |    | 1B.1 | The prostrate vernal pool navarretia<br>is an annual herb found in coastal<br>scrub, meadows and seeps, valley<br>and foothill grassland, and vernal<br>pools. This species is found in<br>alkaline soils in grassland or in<br>vernal pools.<br>Typical blooming period: April to<br>July<br>Typical elevation range: Nine to<br>3,970 feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| Nemacaulis denudata<br>var. denudata<br>Coast woolly-heads         |    |    | 1B.2 | The coast woolly-heads is an<br>annual herb found in coastal dunes.<br>Typical blooming period: April to<br>September<br>Typical elevation range: Zero to 328<br>feet                                                                                                                                                                        | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| O <i>rcuttia californica</i><br>California Orcutt grass            | FE | SE | 1B.1 | The California Orcutt grass is an<br>annual herb found in vernal pools.<br>Typical blooming period: April to<br>August<br>Typical elevation range: 49 to 2,165<br>feet                                                                                                                                                                       | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Pentachaeta lyonii</i><br>Lyon's pentachaeta                    | FE | SE | 1B.1 | The Lyon's pentachaeta is an<br>annual herb found only in the Santa<br>Monica Mountains in eastern<br>Ventura and western Los Angeles<br>Counties and in the western Simi<br>Hills in Ventura County. This<br>species is found on exposed,                                                                                                   | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

|                                                    |      |      | compact, clay soils of volcanic<br>origin that exhibit a microbiotic<br>crust. The Lyon's pentachaeta<br>prefers edges of openings in fire-<br>adapted coastal sage scrub and<br>chaparral on saddles between hills,<br>on the tops of small knolls, or in flat<br>areas at the base of slopes,<br>particularly where soil crust results<br>in less competition from annual<br>grasses. This species also prefers<br>areas with little disturbance and few<br>competitors and often occupy<br>pocket grassland sites that integrate<br>with shrublands, and the edges of<br>roads and trails.<br>Typical blooming period: February<br>to August<br>Typical elevation range: 98 to 2,263<br>feet |   |                                                                                                                               |
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| <i>Phacelia hubbyi*</i><br>Hubby's phacelia        |      | 4.2  | The Hubby's phacelia is an annual<br>herb found in chaparral, coastal<br>scrub, and valley and foothill<br>grassland in gravelly or rocky<br>slopes, and talus slopes, mostly<br>away from the immediate coast.<br>Typical blooming period: April to<br>July<br>Typical elevation range: Zero to<br>3,281 feet                                                                                                                                                                                                                                                                                                                                                                                  | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Phacelia stellaris</i><br>Brand's star phacelia | <br> | 1B.1 | The Brand's star phacelia is an annual herb that is found in sandy open places, dunes, sandy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not                               |

|                                                                   |      |      | benches, river floodplains, and silty<br>plains near the coast. In California,<br>this species is known only from Los<br>Angeles (believed extirpated),<br>Riverside, and San Diego Counties.<br>Typical blooming period: March to<br>June<br>Typical elevation range: Three to<br>1,312 feet                                                                                                                                                  |   | expected to be in the BSA.                                                                                                    |
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| <i>Pseudognaphalium<br/>leucocephalum</i><br>White rabbit-tobacco | <br> | 2B.2 | The white rabbit-tobacco is a<br>perennial herb found in riparian<br>woodland, cismontane woodland,<br>coastal scrub and chaparral. This<br>species is found on sandy, gravelly<br>benches, dry stream bottoms,<br>canyon bottoms arroyos, areas of<br>oak-sycamore, oak-pine, to pine<br>woodlands, and commonly in<br>riparian vegetation.<br>Typical blooming period: July to<br>December<br>Typical elevation range: Zero to<br>6,890 feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Quercus dumosa</i><br>Nuttall's scrub oak                      | <br> | 1B.1 | The Nuttall's scrub oak is a<br>perennial evergreen shrub found in<br>closed-cone coniferous forest,<br>chaparral, and coastal scrub. This<br>species is generally found on sandy<br>soils near the coast, sometimes on<br>clay loam.<br>Typical blooming period: February<br>to August<br>Typical elevation range: 49 to 1,312                                                                                                                | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

|                                                                               |      |      | feet                                                                                                                                                                                                                                                                                                                                                                                     |   |                                                                                                                               |
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| <i>Ribes divaricatum</i> var.<br><i>parishii</i><br>Parish's gooseberry       | <br> | 1A   | The Parish's gooseberry is a<br>perennial deciduous shrub found in<br>willow riparian woodland habitats.<br>Typical blooming period: May to<br>July<br>Typical elevation range: 213 to 984<br>feet                                                                                                                                                                                       | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| <i>Romneya coulteri*</i><br>Coulter's matilija poppy                          | <br> | 4.2  | The Coulter's matilija poppy is a<br>perennial rhizomatous herb found in<br>chaparral and coastal scrub<br>habitats in dry washes and<br>canyons, often in burned areas.<br>This species is found generally<br>away from the coast in the<br>mountain foothills and Santa Ana<br>Mountains.<br>Typical blooming period: March to<br>July<br>Typical elevation range: 65 to 3,937<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |
| Scutellaria bolanderi<br>ssp. austromontana<br>Southern mountains<br>skullcap | <br> | 1B.2 | The southern mountains skullcap is<br>a perennial rhizomatous herb found<br>in mesic sites in the San<br>Bernardino, San Jacinto, and<br>Desert Mountains, Peninsular<br>Ranges, and Mojave Desert. This<br>species may be found in chaparral,<br>coniferous forest, oak or pine<br>woodland and streambanks on<br>gravelly soils.<br>Typical blooming period: June to<br>August         | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA. |

|                                                            |      |      | Typical elevation range: 1,394 to 6,561 feet                                                                                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                                                                     |
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| <i>Sidalcea neomexicana</i><br>Salt spring<br>checkerbloom | <br> | 2B.2 | The salt spring checkerbloom is a<br>perennial herb found in chaparral,<br>coastal scrub, lower montane<br>coniferous forest, Mojavean desert<br>scrub, and playas on clay or loamy<br>mesic soils.<br>Typical blooming period: March to<br>June<br>Typical elevation range: 49 to 5,019<br>feet | A | The habitat typically preferred<br>by this species is absent;<br>therefore, this species is not<br>expected to be in the BSA.                                                                                                                                                                       |
| <i>Suaeda esteroa</i><br>Estuary seablite                  | <br> | 1B.2 | The estuary seablite is a perennial<br>herb found in coastal salt marshes<br>and swamps.<br>Typical blooming period: May to<br>January<br>Typical elevation range: Zero to 16<br>feet                                                                                                            | A | The habitat typically preferred<br>by this species is absent. In<br>addition, this species was not<br>observed during the biological<br>surveys, which were<br>conducted during the typical<br>blooming period for this<br>species. Therefore, this<br>species is not expected to be<br>in the BSA. |
| <i>Suaeda taxifolia*</i><br>Woolly seablite                | <br> | 4.2  | The wooly seablite is a perennial<br>evergreen shrub found in coastal<br>bluff scrub, coastal dunes, and<br>marshes and swamps (margins of<br>coastal salt).<br>Typical blooming period: January to<br>December<br>Typical elevation range: Zero to 164<br>feet                                  | A | The habitat typically preferred<br>by this species is absent. In<br>addition, this species was not<br>observed during the biological<br>surveys, which were<br>conducted during the typical<br>blooming period for this<br>species. Therefore, this<br>species is not expected to be<br>in the BSA. |
| Symphyotrichum                                             | <br> | 1B.2 | The San Bernardino aster is a                                                                                                                                                                                                                                                                    | А | The habitat typically preferred                                                                                                                                                                                                                                                                     |
| defoliatum           |      |      | perennial rhizomatous herb known           |   | by this species is absent;      |
|----------------------|------|------|--------------------------------------------|---|---------------------------------|
| San Bernardino aster |      |      | only from the San Bernardino and           |   | therefore, this species is not  |
|                      |      |      | San Gabriel Mountains, and part of         |   | expected to be in the BSA.      |
|                      |      |      | the Peninsular ranges to the south.        |   |                                 |
|                      |      |      | This species may be found in               |   |                                 |
|                      |      |      | vernally mesic grassland or near           |   |                                 |
|                      |      |      | ditches, streams, and springs, and         |   |                                 |
|                      |      |      | disturbed areas.                           |   |                                 |
|                      |      |      | Typical blooming period: July to November  |   |                                 |
|                      |      |      | Typical elevation range: Six to            |   |                                 |
|                      |      |      | 6,692 feet                                 |   |                                 |
|                      |      |      | The Greata's aster is a perennial          |   | The habitat typically preferred |
|                      |      |      | rhizomatous herb that is endemic to        |   | by this species is absent;      |
|                      |      |      | the San Gabriel mountains. This            |   | therefore, this species is not  |
| Symphyotrichum       |      |      | species is found in mesic areas in         |   | expected to be in the BSA.      |
| greatae              | <br> | 1B.3 | the canyons of the southern slopes         | А |                                 |
| Greata's aster       |      |      | above the Los Angeles basin.               |   |                                 |
|                      |      |      | Typical blooming period: June to October   |   |                                 |
|                      |      |      | Typical elevation range: 984 to 6,594 feet |   |                                 |

Table Key: Absent [A] - no habitat present and no further work needed. Habitat Present [HP] -habitat is, or may be present. The species may be present. Present [P] - the species is present. Status: Federal Endangered (FE); Federal Threatened (FT); State Endangered (SE); State Threatened (ST); Fully Protected (FP); Proposed Federally Threatened (FPT); Federally Delisted (DL); Watch List (WL); State Species of Special Concern (SSC); California Native Plant Society (CNPS), etc. 1A = Plants presumed extirpated in California and either rare, or extinct elsewhere; 1B= Plant species that are rare, threatened, or endangered in California, but are more common elsewhere; 3= Plants about which we need more information; 4 = Plants of limited distribution; 0.1=seriously threatened in California; 0.2 = moderately threatened in California; 0.3 = Not very threatened in California.

\* = Unprocessed Data - Unprocessed CNDDB data is data that has been submitted to CNDDB. The record of this data has been created but a thorough review by a CDFW biologist has yet to be conducted. This data will be reviewed and incorporated into CNDDB, if appropriate. Unprocessed CNDDB data should be used with caution as the data has not been quality controlled.

Information for the habitat requirements and species range was obtained from the following sources: (CNPS, 2019a), (CDFW CNDDB, 2020), and (Sawyer, Keeler-Wolf, & Evans, 2012).

| Common and<br>Scientific Names                    | S                | tatus         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Habitat Present/ | Potionala for Spacia                                                                                                                     |
|---------------------------------------------------|------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | Federal<br>USFWS | State<br>CDFW | General Habitat Description*                                                                                                                                                                                                                                                                                                                                                                                                                       | Absent           | Presence/Absence                                                                                                                         |
| Invertebrates                                     |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                                                                          |
| Anodonta<br>californiensis*<br>California floater |                  | S2            | The California floater is found in<br>fresh water habitats, muddy or<br>sandy habitats in large rivers,<br>reservoirs, lakes, and in low-<br>gradient creeks and streams<br>with steady water levels.                                                                                                                                                                                                                                              | A                | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Bombus crotchii</i><br>Crotch bumble bee       |                  | S1S2          | The Crotch bumble bee is<br>found in open grassland and<br>scrub habitats in coastal<br>California east to the Sierra-<br>Cascade crest and south into<br>Mexico. This species nests<br>underground in abandoned<br>rodent burrows or above<br>ground in tufts of grass, old bird<br>nests, rock piles, or cavities in<br>dead trees. Food plant genera<br>include Antirrhinum, Phacelia,<br>Clarkia, Dendromecon,<br>Eschscholzia, and Eriogonum. | A                | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Carolella busckana</i><br>Busck's gallmoth     |                  | SH            | The Busck's gallmoth is found<br>in coastal dunes and coastal<br>scrub habitats.                                                                                                                                                                                                                                                                                                                                                                   | A                | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

## Table 2: Listed and Proposed Special-Status Wildlife Species with Potential to be in the BSA

| <i>Cicindela hirticollis<br/>gravida</i><br>Sandy beach tiger<br>beetle                  | <br>S2   | The sandy beach tiger beetle is<br>found in areas adjacent to non-<br>brackish water along the coast<br>of California from San<br>Francisco Bay to northern<br>Mexico in coastal dunes<br>habitat. This species prefers<br>clean, dry, light-colored sand in<br>the upper zone and<br>subterranean larvae prefer<br>moist sand not affected by<br>wave action        | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
|------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| Cicindela latesignata<br>latesignata<br>Western beach tiger<br>beetle                    | <br>S2   | The western beach tiger beetle<br>is found in coastal habitats,<br>including salt flats around<br>estuaries and is not found<br>inland.                                                                                                                                                                                                                              | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Cicindela senilis frosti<br>Senile tiger beetle                                          | <br>S1   | The senile tiger beetle is found<br>in coastal mud flats, salt marsh<br>edges, and inland alkali mud<br>flats.                                                                                                                                                                                                                                                       | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Danaus plexippus</i><br>pop. 1<br>Monarch - California<br>overwintering<br>population | <br>S2S3 | The monarch butterfly requires<br>closed-cone coniferous forests<br>and milkweed for breeding and<br>as a food source for larvae.<br>This species roosts in groves of<br>eucalyptus, Monterey pines,<br>and Monterey cypresses in<br>California. Nectar and nearby<br>water sources are required.<br>The California overwintering<br>population migrate to the coast | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                                                         |    |      | of California and overwinter<br>from Mendocino County in the<br>north to Baja California in the<br>south. This population arrives in<br>California in September and<br>overwinters until February.                                                                                                                                                                                       |   |                                                                                                                                          |
|-----------------------------------------------------------------------------------------|----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Glaucopsyche<br/>lygdamus<br/>palosverdesensis</i><br>Palos Verdes blue<br>butterfly | FE | S1   | The Palos Verdes blue butterfly<br>is found in coastal scrub on the<br>seaward side of Palos Verdes<br>Hills, Los Angeles County. The<br>host plant for this species is<br>locoweed ( <i>Astragalus</i><br><i>trichopodus</i> var. <i>lonchus</i> ) and<br>deerweed ( <i>Acmispon glaber</i> ).                                                                                          | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Glyptostoma<br/>gabrielense</i><br>San Gabriel chestnut                              |    | S2   | The San Gabriel chestnut is an<br>air-breathing land snail found in<br>moist condition and often near<br>water. This species is<br>commonly found in piles of<br>weathered rock. During dry<br>seasons they move below the<br>rock piles to the soil in order to<br>stay moist, and the snails are<br>found in different depths of the<br>rock piles depending on<br>moisture conditions | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Gonidea angulata*</i><br>Western ridged<br>mussel                                    |    | S1S2 | The western ridged mussel is a<br>sedentary, long-lived mollusk<br>found primarily in creeks and<br>rivers. This species is found on<br>the bottom of streams, rivers,<br>and lakes with substrates that<br>vary from gravel to firm mud,                                                                                                                                                | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                                               |        | and include at least some sand,<br>silt or clay. Low shear stress<br>(stress caused by fast flowing<br>water over substrate), substrate<br>stability, and flow refuges are<br>important determinants of<br>freshwater mussel survival.<br>This species was originally<br>found within most of the state<br>but is likely now extirpated from<br>Central and southern California.<br>The western ridged mussel is<br>often present in areas with<br>seasonally turbid streams but is<br>absent from areas with<br>continuously turbid water. This<br>species requires a host fish to<br>complete reproduction and<br>dispersal. |   |                                                                                                                                          |
|-------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| Habroscelimorpha<br>gabbii<br>Western tidal-flat tiger<br>beetle              | <br>S1 | The western tidal-flat tiger<br>beetle is found in salty coastal<br>habitats including salt marshes,<br>tidal flats, and beaches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Rhaphiomidas<br>terminatus<br>terminatus*<br>El Segundo flower-<br>loving fly | <br>S1 | The El Segundo flower-loving<br>fly is found in dune habitats in<br>Los Angeles County. This<br>species was presumed extinct,<br>but was recently discovered on<br>Malaga Dunes, Los Angeles<br>County.                                                                                                                                                                                                                                                                                                                                                                                                                        | A | The habitat preferred by this<br>species is not in the BSA;<br>therefore, this species is not<br>expected to be in the BSA.              |
| <i>Tryonia imitator</i><br>Mimic tryonia                                      | <br>S2 | The mimic tryonia is found in coastal lagoons, estuaries and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | А | The habitat typically preferred by this species is                                                                                       |

| (=California         |         | salt marshes, from Sonoma                                          |   | not in the BSA; therefore,                            |
|----------------------|---------|--------------------------------------------------------------------|---|-------------------------------------------------------|
| brackishwater snail) |         | County south to San Diego                                          |   | this species is not expected                          |
|                      |         | County. This species is found                                      |   | to be in the BSA.                                     |
|                      |         | only in permanently submerged                                      |   |                                                       |
|                      |         | areas in a variety of sediment                                     |   |                                                       |
|                      |         | types and is able to withstand a                                   |   |                                                       |
|                      |         | wide range of salinities.                                          |   |                                                       |
| Reptiles             |         |                                                                    |   |                                                       |
|                      |         | The southern California legless<br>lizard is generally found south |   | The habitat typically<br>preferred by this species is |
|                      |         | or the Transverse Range,                                           |   | this species is not expected                          |
|                      |         | California. This species is found                                  |   | to be in the BSA                                      |
|                      |         | in a variety of babitats in sandy                                  |   | to be in the BSA.                                     |
|                      |         | or loose loamy soils with high                                     |   |                                                       |
|                      |         | moisture content under sparse                                      |   |                                                       |
|                      |         | vegetation This species is                                         |   |                                                       |
|                      |         | often locally abundant with                                        |   |                                                       |
| Anniella stebbinsi   |         | specimens found in coastal                                         |   |                                                       |
| Southern California  | <br>SSC | sand dunes and a variety of                                        | А |                                                       |
| legless lizard       |         | interior habitats, including                                       |   |                                                       |
| rogioco neara        |         | sandy washes and alluvial                                          |   |                                                       |
|                      |         | fans. This species is often                                        |   |                                                       |
|                      |         | found in leaf litter under trees                                   |   |                                                       |
|                      |         | and bushes in sunny areas and                                      |   |                                                       |
|                      |         | dunes stabilized with bush                                         |   |                                                       |
|                      |         | lupine and mock heather. This                                      |   |                                                       |
|                      |         | species can also be found                                          |   |                                                       |
|                      |         | under surface objects such as                                      |   |                                                       |
|                      |         | rocks, boards, driftwood, and                                      |   |                                                       |
|                      |         | logs.                                                              |   |                                                       |
| Arizona elegans      | 880     | The California glossy snake is                                     | Λ | The habitat typically                                 |
| occidentalis         | <br>330 | found in arid scrub, rocky                                         | A | preferred by this species is                          |

| California glossy<br>snake                                         |    |     | washes, grasslands, and<br>chaparral habitat, often is loose<br>or sandy soils. This species is<br>patchily distributed from the<br>eastern portion of San<br>Francisco Bay, southern San                                                                                                                  |   | not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                          |
|--------------------------------------------------------------------|----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                    |    |     | Transverse, and Peninsular<br>Ranges, south to Baja<br>California.                                                                                                                                                                                                                                         |   |                                                                                                                                          |
| <i>Aspidoscelis<br/>hyperythra*</i><br>Orange-throated<br>whiptail |    | WL  | The orange-throated whiptail is<br>found in low-elevation coastal<br>scrub, chaparral, and valley-<br>foothill hardwood habitats. This<br>species prefers washes and<br>other sandy areas with patches<br>of brush and rocks. The primary<br>food source for the orange-<br>throated whiptail is termites. | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Aspidoscelis tigris<br>stejnegeri<br>Coastal whiptail              |    | SSC | The coastal whiptail is found<br>primarily in hot and dry open<br>areas with sparse foliage,<br>including chaparral, woodland,<br>and riparian areas. This<br>species is also found in<br>woodland and riparian areas<br>where the ground may be firm<br>soil, sandy, or rocky.                            | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Chelonia mydas</i><br>East Pacific Green<br>Sea Turtle          | FT | S1  | The East Pacific green sea<br>turtle is found in fairly shallow<br>waters inside reefs, bays, and<br>inlets. This species is attracted<br>to lagoons and shoals where                                                                                                                                      | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                                              |         | there is an adequate supply of<br>seagrasses and algae. This<br>species nests on open beaches<br>with a sloping platform and<br>minimal disturbance. The<br>turtles have a strong nesting<br>site fidelity and often make long<br>distance migrations between<br>their feeding grounds and<br>nesting sites.                                                                                                          |   |                                                                                                                                          |
|------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Crotalus ruber*</i><br>Red-diamond<br>rattlesnake                         | <br>SSC | The red-diamond rattlesnake is<br>found in chaparral, woodland,<br>and grassland habitats from<br>San Diego County to the<br>eastern slopes of the<br>mountains. This species is<br>found in rocky areas and areas<br>of dense vegetation. The red-<br>diamond rattlesnake requires<br>rodent burrows or cracks in<br>rocks for cover.                                                                                | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Diadophis punctatus<br/>modestus*</i><br>San Bernardino<br>ringneck snake | <br>S2  | The San Bernardino ringneck<br>snake is most commonly found<br>in moist habitats, including wet<br>meadows, rocky hillsides,<br>gardens, farmland, grassland,<br>chaparral, mixed coniferous<br>forests, and woodlands. This<br>species is found under surface<br>objects along drainage courses,<br>in mesic chaparral, and oak<br>and walnut woodland<br>communities. This species<br>avoids moving through open or | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                      |    |     | barren areas by restricting<br>movements to areas of surface<br>litter or herbaceous vegetation.<br>The San Bernardino ringneck<br>snake feds on small<br>salamanders, tadpoles, small<br>frogs, small snakes, lizards,<br>worms, and insects.                                                                                                                                         |   |                                                                                                                                          |
|------------------------------------------------------|----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Emys marmorata</i><br>Western pond turtle         |    | SSC | The western pond turtle is<br>found in slow moving rivers,<br>streams, lakes, ponds,<br>wetlands, reservoirs, and<br>brackish estuarine waters. This<br>species prefers areas that<br>provide logs, algae, or<br>vegetation for cover, and<br>boulders, partially submerged<br>logs, vegetation mats, or open<br>mud banks for basking, and is<br>found below 6,000 feet<br>elevation. | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Phrynosoma blainvillii</i><br>Coast horned lizard | FE | SE  | The blunt-nosed leopard lizard<br>is a resident of sparsely<br>vegetated alkali and desert<br>scrub habitats, in areas of low<br>topographic relief. This species<br>does not excavate their own<br>burrows and seeks cover in<br>mammal burrows, under shrubs<br>or structures such as fence<br>posts.                                                                                | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Salvadora hexalepis<br>virgultea*                    |    | SSC | The coast patch-nosed snake is found in semi-arid brushy areas                                                                                                                                                                                                                                                                                                                         | A | The habitat typically preferred by this species is                                                                                       |

| Coast patch-nosed    |         | and chaparral in canyons, rocky  |   | not in the BSA; therefore,   |
|----------------------|---------|----------------------------------|---|------------------------------|
| snake                |         | hillsides, and plains. This      |   | this species is not expected |
|                      |         | species requires small mammal    |   | to be in the BSA.            |
|                      |         | burrows for refuge and           |   |                              |
|                      |         | overwintering sites. The coast   |   |                              |
|                      |         | patch-nosed snake feeds on       |   |                              |
|                      |         | lizards, small mammals, and      |   |                              |
|                      |         | amphibians.                      |   |                              |
|                      |         | The two-striped garter snake is  |   | The habitat typically        |
|                      |         | found in coastal California from |   | preferred by this species is |
|                      |         | the vicinity of Salinas to       |   | not in the BSA; therefore,   |
| Thompophie           |         | northwest Baja California. This  |   | to be in the BSA             |
| hammondii*           |         | in or near permanent fresh       |   | to be in the DOA.            |
| Two-striped          | <br>SSC | water. This species is often     | A |                              |
| gartersnake          |         | found along streams with rocky   |   |                              |
|                      |         | beds and old growth riparian     |   |                              |
|                      |         | and has an elevational range     |   |                              |
|                      |         | from sea level to approximately  |   |                              |
|                      | <br>    | 7,000 feet.                      |   |                              |
|                      |         | The south coast garter snake is  |   | The habitat typically        |
|                      |         | found in scattered locations     |   | preferred by this species is |
|                      |         | along the southern California    |   | not in the BSA; therefore,   |
| Thamnophis sirtalis* |         | coastal plain, south to the      |   | this species is not expected |
| pop. 1               | 880     | Vicinity of San Pasqual. This    | ^ | to be in the BSA.            |
| South Coast garter   | <br>330 | species is found in or near      | A |                              |
| snake                |         | marshes or upland habitat. This  |   |                              |
|                      |         | species has an elevational       |   |                              |
|                      |         | range from sea level to about    |   |                              |
|                      |         | 2,730 feet.                      |   |                              |
| Birds                | <br>    |                                  |   |                              |

| <i>Accipiter cooperi*</i><br>Cooper's hawk       | <br>WL | The Cooper's hawk is found in<br>cismontane woodland, riparian<br>forest, riparian woodland, and<br>upper montane coniferous<br>forest, in wooded habitats from<br>deep forests to leafy<br>subdivisions and backyards.<br>This species nests mainly in old<br>growth riparian of deciduous<br>trees, often in canyon bottoms<br>on river floodplains, and will<br>also nest in live oaks. | HP<br>(Nesting)<br>HP<br>(Foraging) | The BSA contains trees that<br>could be used for nesting<br>and foraging. Therefore,<br>there is potential for this<br>species to forage and nest<br>in the BSA.                                                                                                                                 |
|--------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Accipiter striatus*</i><br>Sharp-shinned hawk | <br>WL | The sharp-shinned hawk is<br>found in ponderosa pine, black<br>oak, riparian deciduous, mixed<br>conifer, and Jeffrey pine<br>habitats. This species prefers<br>riparian areas with north-facing<br>slopes, containing plucking<br>perches as critical<br>requirements. Nests are usually<br>within 275 feet of water.                                                                     | A<br>(Nesting)<br>HP<br>(Foraging)  | There is open water<br>adjacent to the western end<br>of the BSA, and this species<br>may use trees and<br>structures within the BSA<br>while foraging in the river.<br>Therefore, there is potential<br>for this species to forage in<br>the BSA, but it is not<br>expected to nest in the BSA. |
| <i>Agelaius tricolor</i><br>Tricolored blackbird | <br>ST | The tricolored blackbird is a<br>highly colonial species that is<br>found in freshwater marshes<br>dominated by cattails and<br>bulrushes. This species is most<br>numerous in the Central Valley<br>and vicinity where this species<br>forages in fields and farms.<br>This species breeds in large<br>freshwater marshes, in dense<br>strands of cattails or bulrushes.                  | A<br>(Nesting)<br>A<br>(Foraging)   | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                                                                         |

|                                                                                     |        | Mostly endemic to California,<br>the tricolored blackbird requires<br>open water, protected nesting<br>substrate, and foraging area<br>with insect prey within a few<br>kilometers of the colony.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                                                                                                                          |
|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Aimophila ruficeps<br>canescens<br>Southern California<br>rufous-crowned<br>sparrow | <br>WL | The California rufous-crowned<br>sparrow is a resident in<br>southern California. This<br>species prefers coastal sage<br>scrub dominated by California<br>sagebrush ( <i>Artemisia</i><br><i>californica</i> ) but they can also be<br>found breeding in coastal bluff<br>scrub, low growing serpentine<br>chaparral, and along edges of<br>tall chaparral habitats in<br>relatively steep, often rocky,<br>xeric hillsides. They are ground<br>nesters and will infrequently be<br>situated in low bushes. In<br>California, nests can be found<br>under California sagebrush,<br>deer weed ( <i>Lotus scoparius</i> ),<br>giant rye ( <i>Leymus</i><br><i>condensatus</i> ), white sage<br>( <i>Salvia apiana</i> ), manzanita<br>( <i>Arctostaphylos</i> spp.), poison<br>oak ( <i>Toxicodendron</i><br><i>diversiloba</i> ), coastal<br>goldenbush ( <i>Isocoma menziesii</i><br>var. <i>vernonioides</i> ), morning<br>glory ( <i>Calystegia macrostegia</i> ),<br>and various bunchgrass. They | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                             |           | also thrive in recent burn areas<br>where the habitat is open and<br>undisturbed                                                                                                                                                                                                                                                                                  |                                   |                                                                                                                                          |
|-------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Ammodramus<br>savannarum*<br>Grasshopper sparrow            | <br>SSC   | The grasshopper sparrow is<br>found in dense grasslands on<br>rolling hills, lowland plains, in<br>valleys and on hillsides on<br>lower mountain slopes. Loosely<br>colonial when nesting, this<br>species favors native<br>grasslands with a mix of<br>grasses, forbs, and scattered<br>shrubs.                                                                  | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Antigone canadensis<br>canadensis*<br>Lesser sandhill crane | <br>SSC   | The lesser sandhill crane is<br>found in open wetland habitats<br>surrounded by shrubs or trees.<br>This species nests in marshes,<br>bogs, wet meadows, and other<br>moist habitats.                                                                                                                                                                             | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Aquila chrysaetos*</i><br>Golden eagle                   | <br>FP/WL | The golden eagle is found in<br>open and semi-open country<br>with native vegetation and<br>primarily found in mountains,<br>canyons, and riverside cliffs<br>and bluffs. This species avoids<br>developed areas and<br>uninterrupted stretches of<br>forest. Cliff-walled canyons and<br>large trees provide nesting<br>habitat in most parts of their<br>range. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Ardea alba*<br>Great egret                                  | <br>S4    | The great egret is found in brackish marsh, estuary,                                                                                                                                                                                                                                                                                                              | А                                 | The habitat typically preferred by this species is                                                                                       |

|                                            |         | freshwater marsh, riparian<br>forests, and wetlands. This<br>species nests colonially in large<br>trees. The rookery sites are<br>located near marshes, tide-<br>flats, irrigated pastures, and<br>margins of rivers and lakes.<br>The great egret feeds mainly on<br>small fish, but will also eat<br>amphibians, reptiles, small<br>mammals, and invertebrates.                          | (Nesting)<br>A<br>(Foraging)      | not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                          |
|--------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Ardea Herodias*</i><br>Great blue heron | <br>S4  | The great blue heron nests<br>colonially in tall trees, cliff<br>sides, and sequestered spots<br>on marshes. This species<br>forages in marshes, lake<br>margins, tidal flats, rivers,<br>streams, and wet meadows.<br>The rookery sites are in close<br>proximity to foraging areas.<br>Colonies need to be protected<br>from human disturbances,<br>which often cause nest<br>desertion. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Athene cunicularia</i><br>Burrowing owl | <br>SSC | The burrowing owl is found in<br>open, dry annual or perennial<br>grasslands, deserts, and<br>scrublands characterized by<br>low-growing vegetation. This<br>species is a subterranean<br>nester, dependent upon<br>burrowing mammals, most<br>notably, the California ground<br>squirrel. Also, common in                                                                                 | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                          |             | disturbed areas, including<br>roadsides, and may develop<br>burrows in debris piles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |                                                                                                                                          |
|------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Aythya Americana*</i><br>Redhead      | <br>SSC     | The redhead is found in<br>seasonal ponds and other<br>wetlands where emergent<br>plants provide food and cover.<br>This species also nests on<br>reservoirs, sewage ponds,<br>streams, and large marshes.                                                                                                                                                                                                                                                                                                                                                  | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Baeolophus<br>inornatus*<br>Oak titmouse | <br>S4      | The oak titmouse is found in<br>oak woodland and pinyon-<br>juniper habitat. This species<br>nests in natural tree cavities or<br>woodpecker holes.                                                                                                                                                                                                                                                                                                                                                                                                         | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Buteo regalis</i><br>Ferruginous hawk | <br>S3S4/WL | The ferruginous hawk is found<br>in grasslands, sagebrush<br>country, saltbrush-greasewood<br>shrublands, and edges of<br>pinyon-juniper forests at low to<br>moderate elevations. This<br>species avoids areas of<br>intensive agriculture, urban,<br>and suburban development and<br>nests on cliffs, outcrops, and in<br>tree groves. When nesting in<br>trees, the nest tree is often<br>isolated, or in a transition zone<br>to an adjacent community. The<br>ferruginous hawk eats mostly<br>lagomorphs (hare-shaped),<br>ground squirrels, and mice. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Buteo swainsoni                          | <br>ST      | The Swainson's hawk breeds in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | А                                 | The habitat typically                                                                                                                    |

| Swainson's hawk      |        | grasslands with scattered trees.   | (Nesting)    | preferred by this species is |
|----------------------|--------|------------------------------------|--------------|------------------------------|
|                      |        | juniper-sage flats. riparian       | Δ            | not in the BSA: therefore.   |
|                      |        | areas, savannahs, and              |              | this species is not expected |
|                      |        | agricultural or ranch lands with   | (Foraging)   | to be in the BSA.            |
|                      |        | groves or lines of trees. This     |              |                              |
|                      |        | species requires adjacent          |              |                              |
|                      |        | suitable foraging areas such as    |              |                              |
|                      |        | grasslands, or alfalfa or grain    |              |                              |
|                      |        | fields supporting rodent           |              |                              |
|                      |        | populations. The current           |              |                              |
|                      |        | distribution of Swainson's         |              |                              |
|                      |        | hawks is in the Central Valley     |              |                              |
|                      |        | and northeastern California        |              |                              |
|                      |        | from Butte Valley east to          |              |                              |
|                      |        | Nevada, south-central Modoc        |              |                              |
|                      |        | County, and eastern Lassen         |              |                              |
|                      |        | County. The range does not         |              |                              |
|                      |        | extend to the North Coast of       |              |                              |
|                      |        | California.                        |              |                              |
|                      |        | The Costa's hummingbird is         |              | The habitat typically        |
|                      |        | found in desert washes, and        |              | preferred by this species is |
|                      |        | sage scrub habitat, mostly in      |              | not in the BSA; therefore,   |
|                      |        | dry and open areas such as         |              | this species is not expected |
|                      |        | washes and streamsides in the      |              | to be in the BSA.            |
|                      |        | Sonoran Desert and lower parts     | А            |                              |
| Calvote costae*      |        | of dry canyons. In California,     | (Nesting)    |                              |
| Costo's humminghird  | <br>S4 | may also use various chaparral     | (1100tillig) |                              |
| Costa s numininguiru |        | and riparian areas. Dominant       | A            |                              |
|                      |        | species may include chamise,       | (Foraging)   |                              |
|                      |        | laurel sumac, buckwheat,           |              |                              |
|                      |        | California lilac, and coffeeberry. |              |                              |
|                      |        | This species nests in sparsely     |              |                              |
|                      |        | leaved shrubs or small trees,      |              |                              |
|                      |        | and sometimes in yucca or          |              |                              |

|                                                                            |     | cactus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                          |
|----------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Campylorhynchus<br>brunneicapillus<br>sandiegensis*<br>Coastal cactus wren | SSC | The coastal cactus wren is a<br>San Diego subspecies that is<br>an obligate inhabitant of coastal<br>sage scrub, a natural<br>vegetation community of low,<br>semi-woody vegetation found<br>only in coastal and near-coastal<br>portions of the state. These<br>areas have a plant species<br>diversity that is relatively high<br>and includes such dominant<br>components as buckwheat<br>( <i>Eriogonum fasiculatum</i> ),<br>California sagebrush ( <i>Artemisia</i><br><i>californica</i> ), white sage ( <i>Salvia</i><br><i>apiana</i> ), and Black Sage<br>( <i>Salvia mellifera</i> ), and prickly<br>pear and cholla cacti ( <i>Opuntia</i><br>spp.). While some coastal birds<br>have been observed using<br>riparian woodland areas below<br>2,000 feet, this species is<br>unlikely that this habitat type is<br>used for nesting. Characteristic<br>trees and tree-like shrubs in<br>their preferred habitat can<br>include California black walnut<br>( <i>Juglans californica</i> ), elderberry<br>( <i>Sambucus Mexicana</i> ), laurel<br>sumac ( <i>Malosma laurina</i> ), and<br>lemonade berry ( <i>Rhus</i><br><i>integrifolia</i> ). This species nests<br>almost exclusively in prickly | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                    |         | pear and coastal cholla ( <i>Opuntia prolifera</i> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Cardinalis cardinalis*</i><br>Northern cardinal | <br>WL  | The northern cardinal is found<br>in brushy woodlands,<br>streamside thickets, orchards,<br>swamps, suburban gardens,<br>and parks. The great majority of<br>the state's northern cardinals<br>are naturalized birds from<br>escaped or introduced stock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A<br>(Nesting)<br>A<br>(Foraging)  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                                                      |
| <i>Chaetura vauxi*</i><br>Vaux's swift             | <br>SSC | Vaux's swift breeding range<br>includes the forested coastal<br>regions from Del Norte County<br>to Santa Cruz County, with a<br>small breeding population<br>possibly also existing on the<br>Big Sur coast of Monterey<br>County. There are also local<br>breeding populations in low<br>densities through northeastern<br>California and south in the<br>Sierra Nevada to Tulare<br>County. Migrant Vaux's Swifts<br>are found throughout southern<br>California, in late spring and<br>fall. This species shows a<br>preference for foraging over<br>rivers and lakes and feeds low<br>over water. For roosting,<br>migrant Vaux's swifts require<br>some kind of shelter, and will<br>utilize hollow structures such as<br>decayed or burned trees,<br>chimneys, barns, outbuildings, | A<br>(Nesting)<br>HP<br>(Foraging) | There is the Los Angeles<br>River adjacent to the BSA<br>which could be used as<br>foraging habitat, but there is<br>no suitable nesting habitat.<br>Therefore, there is potential<br>for this species to forage in<br>the BSA, but it is not<br>expected to nest in the BSA. |

|                                                             |    |     | or building shafts, if available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                                                                                                                          |
|-------------------------------------------------------------|----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Charadrius<br>alexandrinus nivosus*<br>Western snowy plover | FT | SSC | The Pacific coast population of<br>the western snowy plover<br>breeds primarily on coastal<br>beaches from southern<br>Washington to southern Baja<br>California, Mexico. The<br>population breeds above the<br>high tide line on coastal<br>beaches, sand spits, dune-<br>backed beaches, sparsely-<br>vegetated dunes, beaches at<br>creek and river mouths, and<br>salt pans at lagoons and<br>estuaries.                                                                                                                           | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Charadrius<br>montanus*<br>Mountain plover                  |    | SSC | The mountain plover breeds in<br>the high plains east of the<br>Rocky Mountains from Montana<br>to New Mexico and in western<br>Texas and western Oklahoma<br>south to central Mexico. In<br>California, the primary wintering<br>areas are the Central and<br>Imperial Valleys. This species<br>is strongly associated with<br>short-grass prairie habitats, or<br>their equivalents, that are flat<br>and nearly devoid of<br>vegetation. The mountain<br>plover prefers grazed areas as<br>well as areas with burrowing<br>rodents. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Chldonias niger*                                            |    | SSC | The black tern is found near                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A                                 | The habitat typically                                                                                                                    |

| Black tern                                 |         | freshwater lakes, ponds,<br>marshes, and agricultural fields.<br>During migration, this species is<br>found in coastal lagoons and<br>estuaries. The black tern<br>breeds primarily in the Modoc<br>Plateau region, with some<br>breeding in the Sacramento<br>and San Joaquin Valleys.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (Nesting)<br>A<br>(Foraging)      | preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                          |
|--------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Circus cyaneus*</i><br>Northern harrier | <br>SSC | The northern harrier is a<br>widespread migrant and winter<br>visitor through California. The<br>breeding range includes coastal<br>areas, Central Valley,<br>northeastern California, and<br>Sierra Nevada region up to<br>3,600 feet. This species breeds<br>and forages in a variety of open<br>(treeless) habitats that provide<br>adequate vegetative cover, an<br>abundance of suitable prey,<br>and scattered hunting, plucking,<br>and lookout perches such as<br>shrubs or fence posts. In<br>California, such habitats include<br>freshwater marshes, brackish<br>and saltwater marshes, wet<br>meadows, weedy borders of<br>lakes, rivers and streams,<br>annual and perennial<br>grasslands (including those<br>with vernal pools), weed fields,<br>ungrazed or lightly grazed<br>pastures, some croplands, | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                                        |    |     | sagebrush flats, and desert<br>sinks. This species nests on<br>ground in shrubby vegetation,<br>usually at marsh edges; nests<br>are built of a large mound of<br>sticks in wet areas.                                                                                                                                                                                                                                                               |                                   |                                                                                                                                          |
|------------------------------------------------------------------------|----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Cistothorus palustris<br/>clarkae*</i><br>Clark's marsh wren        |    | SSC | The Clark's marsh wren is<br>restricted in freshwater and<br>brackish marshes dominated by<br>bulrushes or cattails and nests<br>in narrow strips of marsh along<br>lakeshores. This species is<br>mostly confined to the coastal<br>slope of southern California.<br>Because of agricultural and<br>urban development only six<br>nesting sites are currently<br>known In Los Angeles County.<br>This species feeds on bugs,<br>moths, and beetles. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Coccyzus americanus<br>occidentalis<br>Western yellow-billed<br>cuckoo | FT | SE  | The western yellow-billed<br>cuckoo breeds in large blocks,<br>or contiguous areas of riparian<br>habitat, primarily cottonwood-<br>willow riparian woodlands.<br>Large blocks of riparian habitat<br>appear to be required for<br>nesting. This species forages<br>on caterpillars and large<br>insects, and occasionally on<br>small lizards, frogs, eggs, and<br>young birds.                                                                     | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Contopus cooperi*                                                      |    | SSC | The olive-sided flycatcher is a                                                                                                                                                                                                                                                                                                                                                                                                                      | A                                 | The habitat typically                                                                                                                    |

| Olive-sided flvcatcher |         | summer resident and migrant              | (Nestina)  | preferred by this species is |
|------------------------|---------|------------------------------------------|------------|------------------------------|
| · · · · · · , · · · ·  |         | mainly from mid-April through            | Δ          | not in the BSA: therefore.   |
|                        |         | early October: the breeding              | A          | this species is not expected |
|                        |         | season in California extends             | (Foraging) | to be in the BSA.            |
|                        |         | from early May to late August.           |            |                              |
|                        |         | This species is found in lower           |            |                              |
|                        |         | and upper montane coniferous             |            |                              |
|                        |         | forests and redwood forests.             |            |                              |
|                        |         | These flycatchers are mostly             |            |                              |
|                        |         | associated with edges,                   |            |                              |
|                        |         | openings, and natural and                |            |                              |
|                        |         | human-created clearings in               |            |                              |
|                        |         | otherwise relatively dense               |            |                              |
|                        |         | forests, but they also occupy            |            |                              |
|                        |         | semi open forests. Nests in              |            |                              |
|                        |         | California are mostly in conifers        |            |                              |
|                        |         | but may be in a variety of               |            |                              |
|                        |         | species, including willows (Salix        |            |                              |
|                        |         | spp.), alders ( <i>Alnus</i> spp.), oaks |            |                              |
|                        |         | (Quercus spp.), and                      |            |                              |
|                        |         | eucalyptus.                              |            |                              |
|                        |         | The yellow rail is a rare                |            | The habitat typically        |
|                        |         | summer California resident of            |            | preferred by this species is |
|                        |         | fresh-water marshlands in the            |            | not in the BSA; therefore,   |
|                        |         | eastern Sierra Nevada                    |            | this species is not expected |
|                        |         | mountains in Mono County.                | А          | to be in the BSA.            |
| Coturnicops            |         | Small numbers winter regularly           | (Nesting)  |                              |
| noveboracensis         | <br>SSC | in a few coastal marshes and             | (g)        |                              |
| Yellow rail            |         | the Suisun Marsh region, where           | A          |                              |
|                        |         | the Central Valley merges with           | (Foraging) |                              |
|                        |         | the San Francisco Bay estuary.           |            |                              |
|                        |         | The yellow rail is found in              |            |                              |
|                        |         | shallow marshes and wet                  |            |                              |
|                        |         | meadows. During the winter,              |            |                              |

|                                                           |         | this species is found in drier<br>fresh-water and brackish<br>marshes, as well as dense,<br>deep grass, and rice fields.<br>During the summer, the yellow<br>rail is found in large wet<br>meadows or shallow marshes<br>dominated by sedges and<br>grasses.                                                                                                                                                                                      |                                   |                                                                                                                                          |
|-----------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Cypseloides niger*</i><br>Black swift                  | <br>SSC | The black swift is found in the<br>coastal belt of Santa Cruz and<br>Monterey Counties; central and<br>southern Sierra Nevada; San<br>Bernardino and San Jacinto<br>mountains. The black swift<br>breeds in small colonies on<br>cliffs behind or adjacent to<br>waterfalls in deep canyons and<br>sea-bluffs above the surf. This<br>species eats flying insects,<br>primarily flying ants and<br>beetles, and often forages in<br>small groups. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Dendrocygna bicolor*</i><br>Fulvous whistling-<br>duck | <br>SSC | The fulvous whistling-duck is<br>found in freshwater and coastal<br>marshes. In the United States<br>this species rice fields and tall-<br>grass areas flooded to a depth<br>of approximately 1.5 feet. This<br>species nests over water within<br>emergent swamps and on dry<br>hummocks between ponds.<br>Fulvuous whistling-ducks feed<br>nocturnally and are almost                                                                           | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                 |        | totally granivorous as adults.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Egretta thula*</i><br>Snowy egret            | <br>S4 | The snowy egret is found in<br>marshes and swamps,<br>meadows and seeps, riparian<br>forest, riparian woodland, and<br>wetlands. This species is a<br>colonial nester with nest sites<br>situated in protected beds of<br>dense tules or within trees or<br>shrubs five to 10 feet up from<br>the ground. Rookery sites are<br>situated close to foraging<br>areas. This species forages in<br>shallow water for fish, insects,<br>and crustaceans, and may also<br>forage in open fields. | A<br>(Nesting)<br>A<br>(Foraging)  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                                                                         |
| <i>Elanus leucurus*</i><br>White-tailed kite    | <br>FP | The white-tailed kite is found in<br>rolling foothills and valley<br>margins with scattered oaks<br>and river bottomlands or<br>marshes next to deciduous<br>woodland. This species favors<br>open grasslands, meadows, or<br>marshes for foraging, close to<br>isolated, dense-topped trees for<br>nesting and perching.                                                                                                                                                                  | A<br>(Nesting)<br>HP<br>(Foraging) | There is open water<br>adjacent to the western end<br>of the BSA, and this species<br>may use trees and<br>structures within the BSA<br>while foraging in the river.<br>Therefore, there is potential<br>for this species to forage in<br>the BSA, but it is not<br>expected to nest in the BSA. |
| <i>Empidonax traillii*</i><br>Willow flycatcher | <br>SE | The willow flycatcher is a<br>common spring (mid-May to<br>early June) and fall (mid-August<br>to early September) migrant at<br>lower elevations, primarily in<br>riparian habitats, throughout the<br>state exclusive of the North                                                                                                                                                                                                                                                       | A<br>(Nesting)<br>A<br>(Foraging)  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                                                                         |

|                                                                            |    |    | coast. This species is found in<br>meadows and seeps, riparian<br>scrub, riparian woodland, and<br>wetland habitats. This species<br>requires moist brushy thickets,<br>open second-growth, and<br>riparian woodland, especially<br>with willow and buttonbush.                                                                                                                                                                                                                                                                                  |                                   |                                                                                                                                          |
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| <i>Empidonax traillii<br/>extimus</i><br>Southwestern willow<br>flycatcher | FE | SE | The southwestern willow<br>flycatcher is found in extensive<br>riparian thickets composed of<br>native broadleaf species near<br>surface water or saturated soil.<br>This species' known breeding<br>locations are restricted primarily<br>to Sierra Nevada/Cascade<br>region south to northern Kern<br>County, including Alpine, Inyo,<br>and Mono Counties, in<br>Southern California near<br>Buellton in Santa Barbara<br>County, at the Prado Basin<br>riparian forest in Riverside<br>County, and several locations<br>in San Diego County. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Eremophila alpestris<br/>actia*</i><br>California horned lark           |    | WL | The California horned lark is<br>found in coastal regions, chiefly<br>from Sonoma County to San<br>Diego County. This species is<br>also found in the main part of<br>San Joaquin Valley and east to<br>the foothills. The California<br>horned lark is found in short-<br>grass prairie, "bald" hills,                                                                                                                                                                                                                                          | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                           |          |             | mountain meadows, open<br>coastal plains, fallow grain<br>fields, and alkali flats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    |                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------|----------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Falco columbarius*</i><br>Merlin       |          | S3S4/WL     | The merlin is a winter migrant<br>in California and breeds in<br>Alaska and Canada. This<br>species frequents open habitats<br>at low elevation near water and<br>tree stands. The species favors<br>coastlines, lakeshores, and<br>wetlands.                                                                                                                                                                                                                                                                                                                                                                                       | A<br>(Nesting)<br>HP<br>(Foraging) | There is open water<br>adjacent to the western end<br>of the BSA, and this species<br>may use trees and<br>structures within the BSA<br>while foraging in the river.<br>Therefore, there is potential<br>for this species to forage in<br>the BSA, but it is not<br>expected to nest in the BSA. |
| <i>Falco mexicanus*</i><br>Prairie falcon |          | S4/WL       | The prairie falcon is found in<br>grasslands, shrubby deserts,<br>shrub-steppe (a low rainfall<br>grassland) and other open<br>areas up to about 10,000 feet<br>elevation. In the winter, the<br>majority of this species are<br>found in the Great Plains and<br>Great Basin, where they feed<br>mostly on other birds such as<br>horned larks and meadowlarks.<br>In the summer, this species<br>eats mostly small mammals,<br>such as ground squirrels, pikas,<br>birds and insects. The prairie<br>falcon nests on ledges, cavities,<br>and crevices of cliff faces, or<br>uses abandoned nests of<br>eagles, hawks, or ravens. | A<br>(Nesting)<br>A<br>(Foraging)  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                                                                         |
| Falco peregrinus                          | Delisted | Delisted/FP | The American peregrine falcon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | А                                  | There is open water                                                                                                                                                                                                                                                                              |

| <i>anatum*</i><br>American peregrine<br>falcon |         | can be found near wetlands,<br>lakes, rivers, or other water, on<br>cliffs, banks, dunes, mounds,<br>and human-made structures.<br>Their nests consist of a scrape<br>or a depression or ledge in an<br>open site.                                                                                                                                                                                                                                                         | (Nesting)<br>HP<br>(Foraging)     | adjacent to the western end<br>of the BSA, and this species<br>may use trees and<br>structures within the BSA<br>while foraging in the river.<br>Therefore, there is potential<br>for this species to forage in<br>the BSA, but it is not<br>expected to nest in the BSA. |
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| <i>Hydroprogne caspia*</i><br>Caspian tern     | <br>S4  | In western North America, the<br>Caspian tern's breeding<br>distribution has changed<br>substantially from mostly inland<br>wetlands to coastal<br>environments. This species<br>now breeds along the Pacific<br>coast from Alaska to central<br>Baja California, Mexico. For<br>nesting, this species requires<br>relatively barren, undisturbed<br>islands, levees, or shores, and<br>nearby foraging areas in lakes,<br>estuaries, salt ponds, or<br>emergent wetlands. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                                                  |
| <i>Icteria virens</i><br>Yellow-breasted chat  | <br>SSC | The yellow-breasted chat is<br>found in riparian forests,<br>riparian scrub, and riparian<br>woodlands. The yellow-<br>breasted chat nests in low,<br>dense riparian thickets near<br>water courses, consisting of<br>willow, blackberry, and wild<br>grape. This species forages<br>and nests within 10 feet of the<br>ground.                                                                                                                                            | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                                                  |

| <i>lxobrychus exilis*</i><br>Least bittern       | <br>SSC | Suitable breeding habitats for<br>Least Bitterns include<br>freshwater and brackish<br>marshes with tall, dense<br>emergent vegetation and<br>clumps of woody plants over<br>deep water. This species is<br>restricted to dense reeds with<br>permanent water and is<br>capable of colonizing new<br>areas. This species is a colonial<br>nester in marshlands and<br>borders of ponds and reservoirs<br>which provide ample cover.<br>Nests are usually placed low in<br>tules, over water. | A<br>(Nesting)<br>A<br>(Foraging)  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                       |
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| <i>Lanius ludovicianus*</i><br>Loggerhead shrike | <br>SSC | The loggerhead shrike is found<br>in semi-open country with<br>lookout posts, such as wires,<br>trees, and scrub. This species<br>builds nests in thorny<br>vegetation in semi-open terrain,<br>from large clearings in wooded<br>regions to open grassland or<br>desert with a few scattered<br>trees or large shrubs.                                                                                                                                                                      | A<br>(Nesting)<br>A<br>(Foraging)  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                       |
| <i>Larus californicus*</i><br>California gull    | <br>WL  | The California gull is a fairly<br>common nester at alkali and<br>freshwater lacustrine habitats<br>east of the Sierra Nevada and<br>Cascades, and an abundant<br>visitor to coastal and interior<br>lowlands in nonbreeding<br>season. Inland, this species                                                                                                                                                                                                                                 | A<br>(Nesting)<br>HP<br>(Foraging) | There are open areas within<br>the BSA that could provide<br>suitable foraging habitat in<br>the BSA, but there is no<br>suitable nesting habitat;<br>therefore, there is potential<br>for this species to forage in<br>the BSA, but it is not |

|                                                               |        | frequents lacustrine, riverine,<br>and cropland habitats, landfill<br>dumps, and open lawns in<br>cities. This species needs<br>undisturbed, isolated islands for<br>nesting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   | expected to nest in the BSA.                                                                                                             |
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| <i>Melanerpes lewis*</i><br>Lewis' woodpecker                 | <br>S4 | Lewis's Woodpeckers require<br>open habitat with scattered or<br>edge trees. Large open areas<br>are necessary for foraging.<br>Trees are used as hawking<br>perches and for nesting. Large-<br>diameter trees, either living,<br>with partial decay, or dead, with<br>more advanced decay, are<br>especially valuable for nest<br>sites. A diverse ground cover of<br>low shrubs, grasses, and<br>herbaceous plants that produce<br>berries or provide habitat for<br>insects is an important habitat<br>component. Three distinct<br>habitats are used by the<br>species: open forest or<br>grassland with scattered trees,<br>riparian forests adjacent to<br>open areas, and burns. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Nycticorax nycticorax*</i><br>Black-crowned night<br>heron | <br>S4 | The black-crowned night heron<br>is found in marshes, swamps,<br>riparian forests, riparian<br>woodlands, and wetlands. The<br>rookery sites are usually<br>located near aquatic or<br>emergent foraging sites within                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                                               |         | dense-foliaged trees, dense<br>emergent wetlands, dense<br>shrubbery or vine tangles. Non-<br>breeding roosts may be farther<br>away from nesting sites. This<br>species is a colonial nester,<br>usually in trees, and<br>occasionally in tule patches.                                                                                                                    |                                   |                                                                                                                                          |
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| <i>Pandion haliaetus*</i><br>Osprey                                           | <br>WL  | The osprey is found near ocean<br>shores, bays, fresh-water lakes,<br>and larger streams. This<br>species builds large nests in<br>tree-tops within approximately<br>15 miles of a body of water<br>where fish are abundant.                                                                                                                                                | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Passerculus<br>sandwichensis<br>beldingi<br>Belding's savannah<br>sparrow     | <br>SE  | The Belding's savannah<br>sparrow is endemic to the<br>upper littoral region of salt<br>marshes and is associated with<br>dense pickleweed, particularly<br>Salicornia virginica, within<br>which most nests are found.                                                                                                                                                     | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Passerculus<br>sandwichensis<br>rostratus<br>Large-billed savannah<br>sparrow | <br>SSC | The large-billed savannah<br>sparrow is found in saline<br>emergent wetlands at the<br>Salton Sea and southern coast.<br>This species breeds along the<br>Colorado River delta in Mexico,<br>and winters at the Salton Sea.<br>Breeding habitat for this<br>species is limited to open, low<br>salt marsh vegetation, including<br>grasses ( <i>Spartina, Distichlis</i> ), | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                                          |          |             | pickleweed ( <i>Salicornia</i> spp.),<br>and iodine bush ( <i>Allenrolfea</i><br>spp.).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                                                                                                                                          |
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| Pelecanus<br>occidentalis<br>californicus<br>California brown<br>pelican | Delisted | Delisted/FP | The California brown pelican is<br>found in marine areas near<br>piers and jetties with offshore<br>rocks and islands important for<br>nesting. This species forages in<br>estuarine and inshore waters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Phalacrocorax<br>auratus*<br>Double crested<br>cormorant                 |          | WL          | The double-crested cormorant<br>is a colonial nester on coastal<br>cliffs, offshore islands, riparian<br>forest, and scrub or woodland<br>habitat near lake margins. This<br>species requires undisturbed<br>nest-sites beside water, on<br>islands or the mainland. The<br>double-crested cormorant uses<br>wide rock ledges on cliffs;<br>rugged slopes; and live or dead<br>trees, especially tall ones, for<br>nesting. This species feeds on<br>fish and other aquatic life near<br>the mid to upper levels of the<br>water. In addition, this species<br>roosts overnight beside water<br>on offshore rocks, islands,<br>steep cliffs, dead branches of<br>trees, wharfs, jetties, or even<br>transmission lines. Perching<br>sites must be barren of<br>vegetation. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Phoebastria albatrus*                                                    | FE       | SSC         | The short-tailed albatross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | А                                 | The habitat typically                                                                                                                    |

| Short-tailed albatross                                                     |    |     | requires remote islands for<br>breeding and nest in open,<br>treeless areas with low to no<br>vegetation. This species<br>spends much of its time feeding<br>in continental shelf-break areas<br>in Alaskan, Japanese, and<br>Russian waters.                                                                                                                         | (Nesting)<br>A<br>(Foraging)      | preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                          |
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| <i>Piranga rubra*</i><br>Summer tanager                                    |    | SSC | The summer tanager is found in<br>riparian forests and requires<br>cottonwood-willow riparian<br>habitat for nesting and foraging.<br>This species is a summer<br>resident of desert riparian<br>habitats along the lower<br>Colorado and in California<br>deserts.                                                                                                   | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Polioptila californica<br>californica<br>Coastal California<br>gnatcatcher | FT | SSC | The coastal California<br>gnatcatcher is found in<br>chaparral, grassland, and<br>riparian areas near sage scrub.<br>An obligate, permanent<br>resident of coastal sage scrub<br>below 2,500 feet in Southern<br>California, this species requires<br>variable amounts of semi-open<br>sage scrub dominated by<br>California sagebrush on<br>shallow slope gradients. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Progne subis*</i><br>Purple martin                                      |    | SSC | The purple martin is a summer<br>migrant found in valley foothill<br>and montane<br>hardwood/hardwood-conifer,                                                                                                                                                                                                                                                        | A<br>(Nesting)<br>A               | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected                      |

|                                                                         |    |       | coniferous habitats and riparian<br>habitats. The purple martin<br>nests in tall, old, isolated trees<br>or snags in open forest or<br>woodlands and in close<br>proximity to a body of water.<br>The species frequently nests in<br>old woodpecker cavities but<br>has also been found nesting in<br>human-made structures such<br>as bridges and culverts.<br>Foraging habitats must provide<br>large amounts of aerial insects. | (Foraging)                        | to be in the BSA.                                                                                                                        |
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| <i>Pyrocephalus<br/>rubinus*</i><br>Vermilion flycatcher                |    | SSC   | The vermilion flycatcher is<br>found in marshes, swamps,<br>riparian forest, riparian scrub,<br>riparian woodland, and wetland<br>habitats. This species nests in<br>cottonwoods, willows,<br>mesquite, and other large<br>desert riparian trees near mesic<br>areas.                                                                                                                                                              | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Rallus obsoletus<br/>levipes*</i><br>Light-footed<br>ridgeway's rail | FE | SE/FP | The light-footed clapper rail is<br>found exclusively in salt<br>marshes between Santa<br>Barbara, California and San<br>Quintin Bay, Baja California,<br>Mexico. This species nets<br>primarily in dense cordgrass,<br>wrack deposits, and in<br>hummocks of high marsh within<br>the low marsh zone.                                                                                                                             | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Riparia riparia                                                         |    | ST    | The bank swallow is a                                                                                                                                                                                                                                                                                                                                                                                                              | А                                 | The habitat typically                                                                                                                    |

|                                                 | r        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    | ,                                                                                                                                                                                                                                                |
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| Bank swallow                                    |          | migratory, dense colonial<br>nester that is found in lowland<br>and riparian habitats west of<br>the deserts. The majority of the<br>extant breeding populations are<br>found within the Sacramento<br>and Feather river corridors in<br>the north Central Valley. Other<br>colonies persist along the<br>central coast from Monterey to<br>San Mateo Counties, and<br>northeastern California in<br>Shasta, Siskiyou, Lassen,<br>Plumas, and Modoc Counties.<br>There are no known nesting<br>colonies within Napa County.<br>This species requires near<br>vertical banks or cliffs with fine-<br>textured or sandy soils near<br>streams, rivers, lakes, or the<br>ocean to dig nesting holes. This<br>species forages in locations<br>with high insect biomass,<br>typically in close proximity to<br>water, riparian scrub, riparian<br>woodland, and grasslands. | (Nesting)<br>A<br>(Foraging)       | preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                                                                  |
| <i>Selasphorus rufus*</i><br>Rufous hummingbird | <br>S1S2 | The rutous hummingbird is a<br>common migrant and<br>uncommon summer resident in<br>California. This species nests in<br>old growth and north coast<br>coniferous forest habitats in<br>berry tangles, shrubs and<br>conifers. This species prefers to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A<br>(Nesting)<br>HP<br>(Foraging) | I here are nectar producing<br>flowers along the EB SR-91<br>sound wall in the BSA which<br>could be used as foraging<br>habitat, but there is no<br>suitable nesting habitat.<br>Therefore, there is potential<br>for this species to forage in |

|                                                        |          | forage in locations with a high<br>density of nectar producing<br>flowers.                                                                                                                                                                                                                                                                                                                         |                                   | the BSA, but it is not<br>expected to nest in the BSA.                                                                                   |
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| Setophaga petechia*<br>Yellow warbler                  | <br>SSC  | The yellow warbler is found in<br>riparian forest, riparian scrub,<br>and riparian woodland habitats<br>in close proximity to water. This<br>species is frequently found<br>nesting and foraging in willow<br>shrubs and thickets, and can<br>also be found in cottonwoods,<br>sycamores, ash, and alders.                                                                                         | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Sphyrapicus ruber*</i><br>Red-breasted<br>sapsucker | <br>S4   | The red-breasted sapsucker is<br>found in mixed coniferous and<br>mixed deciduous-coniferous<br>forests and woodlands. This<br>species requires snags or<br>hollow tree cavities for nesting.<br>They can also be found in<br>riparian habitats with large<br>cottonwoods.                                                                                                                         | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Spinus lawrencei*</i><br>Lawrence's goldfinch       | <br>S3S4 | The Lawrence's goldfinch is<br>found in valley foothill<br>hardwood and valley foothill<br>hardwood-conifer habitats in<br>northern California and desert<br>riparian, palm oasis, pinon and<br>juniper woodlands, and lower<br>montane habitats in southern<br>California. This species has a<br>narrow breeding range within<br>the woodlands of California and<br>Baja California. This species | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                      |    |    | nests in dense foliage near<br>water in open, arid woodlands<br>with a preference to oaks, but<br>may nest in chaparral. Even<br>within their normal California<br>range, the breeding status and<br>distribution of these goldfinches<br>is poorly understood.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                                                                                                                          |
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| <i>Spizella breweri*</i><br>Brewer's sparrow         |    | S4 | The Brewer's sparrow is found<br>east of the Cascade-Sierra<br>Nevada crest, mountains and<br>high valleys of the Mojave<br>Desert, and mountains at the<br>south end of the San Joaquin<br>Valley. This species breeds in<br>treeless shrub habitats with<br>moderate canopy, especially in<br>sagebrush. Now mostly absent<br>from former breeding grounds<br>in southwestern California, this<br>species depends almost<br>exclusively on the sagebrush<br>ecosystem, dominated by big<br>sagebrush ( <i>Artemisia</i><br><i>tridentata</i> ) and similar species<br>that grow to approximately five<br>feet tall for breeding. Some<br>Brewer's sparrows use large<br>clearings in pinyon-juniper<br>woodlands. | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Sterna antillarum<br>browni<br>California least tern | FE | SE | The California least tern nests<br>in sparsely vegetated sandy or<br>gravelly ground (typically tidal<br>flats and beaches) near                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A<br>(Nesting)<br>A               | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected                      |
|                                                                 |    |     | lagoons, estuaries, or bays.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (Foraging)                        | to be in the BSA.                                                                                                                        |
|-----------------------------------------------------------------|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Thalasseus elegans*</i><br>Elegant tern                      |    | WL  | The elegant tern is found near coastal waters along the Pacific Coast. Nests on low, flat, sandy islands on the ground.                                                                                                                                                                                                                                                                                                                                                                                                                                     | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Vireo bellii pusillus</i><br>Least Bell's vireo              | FE | SE  | The least Bell's vireo is found in<br>dense, willow dominated<br>riparian habitat with lush<br>understory vegetation. This<br>species primarily occupies<br>riparian habitats that typically<br>feature dense cover within<br>three to seven feet of the<br>ground and a dense, stratified<br>canopy.                                                                                                                                                                                                                                                       | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Xanthocephalus<br>xanthocephalus*<br>Yellow-headed<br>blackbird |    | SSC | The yellow-headed blackbird<br>nests in freshwater emergent<br>wetlands often along borders of<br>lakes or ponds with dense<br>vegetation and deep water.<br>This species only nests where<br>large insects such as<br>dragonflies and damselflies are<br>abundant, and nesting is timed<br>with maximum emergence of<br>aquatic insects. Nests are<br>lashed to standing vegetation<br>growing in water, usually no<br>more than three feet above the<br>water's surface. This species<br>forages on the ground in open<br>fields, near the edge of water, | A<br>(Nesting)<br>A<br>(Foraging) | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                       |    |      | and in low marsh vegetation.<br>The species was not recorded<br>on the coastal slope of Los<br>Angeles County during 1995 to<br>2000 atlas surveys.                                                                                                                                                                                                                           |   |                                                                                                                                          |
|-------------------------------------------------------|----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| Crustaceans                                           |    |      |                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                                                                          |
| Streptocephalus<br>woottoni<br>Riverside fairy shrimp | FE | S1S2 | The riverside fairy shrimp is<br>found in coastal scrub, vernal<br>pools, wetlands, valley and<br>foothill grasslands. They are<br>endemic to Western Riverside,<br>Orange, and San Diego<br>Counties in areas of tectonic<br>swales/earth slump basins in<br>grassland and coastal sage<br>scrub. They inhabit seasonally<br>astatic pools filled by<br>winter/spring rains. | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Fish                                                  |    |      |                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                                                                          |
| Catostomus<br>santaanae*<br>Santa Ana sucker          | FT | S1   | The Santa Ana sucker is<br>endemic to Los Angeles basin<br>south coastal streams. This<br>species is a habitat generalist<br>and prefers sand-rubble-<br>boulder bottoms, cool, clear<br>water, and algae                                                                                                                                                                     | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Eucyclogobius<br/>newberryi*</i><br>Tidewater goby | FE | SSC  | The tidewater goby is found in<br>shallow lagoons and lower<br>stream reaches and requires<br>fairly still but not stagnant water<br>and high oxygen levels. This<br>species prefers brackish, slow-                                                                                                                                                                          | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                                                              |    |     | moving water with emergent vegetation.                                                                                                                                                                                                                                                                                                                                                     |   |                                                                                                                                          |
|----------------------------------------------------------------------------------------------|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Gila orcuttii*</i><br>Arroyo chub                                                         |    | SSC | The arroyo chub is native to<br>streams from Malibu Creek to<br>San Luis Rey River basin. This<br>species was introduced into<br>streams in Santa Clara,<br>Ventura, Santa Ynez, Mohave,<br>and San Diego River basins.<br>This species is found in slow<br>water stream sections with mud<br>or sand bottoms, and feeds<br>heavily on aquatic vegetation<br>and associated invertebrates. | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Oncorhynchus mykiss<br/>irideus</i><br>pop. 10*<br>Steelhead - southern<br>California DPS | FE | S1  | Habitat includes low elevation<br>lakes, slow-moving small to<br>large rivers, sloughs,<br>backwaters, sluggish sandy<br>pools, and reservoirs (Lee et al.<br>1980, Moyle 2002, Page and<br>Burr 2011). Spawning occurs in<br>small streams or shallow<br>waters                                                                                                                           | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Rhinichthys osculus<br>ssp. 3*<br>Santa Ana speckled<br>dace                                 |    | SSC | The Santa Ana speckled dace<br>is found in perennial streams<br>fed by cool springs that<br>maintain summer water<br>temperatures below 68 degrees<br>Fahrenheit. This species is<br>found in streams with gravel,<br>cobble, sand, or boulder<br>substrates. The Santa Ana<br>speckled dace is found in the                                                                               | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                                         |    |     | headwaters of the Santa Ana<br>and San Gabriel Rivers and<br>may be extirpated from the Los<br>Angeles River system.                                                                                                                                                                                                                                                                                               |   |                                                                                                                                          |
|---------------------------------------------------------|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| Siphateles bicolor<br>mohavensis<br>Mojave tui chub     | FE | SE  | The Mojave tui chub is endemic<br>to the Mojave River basin and<br>is adapted to alkaline,<br>mineralized waters. This<br>species needs deep pools,<br>ponds, or slough-like areas.<br>This species also needs<br>vegetation for spawning.                                                                                                                                                                         | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Amphibians                                              |    |     |                                                                                                                                                                                                                                                                                                                                                                                                                    |   |                                                                                                                                          |
| <i>Rana draytonii*</i><br>California red-legged<br>frog | FT | SSC | The California red-legged frog<br>is found in lowlands and<br>foothills in or near permanent<br>sources of deep water with<br>dense, shrubby, or emergent<br>riparian vegetation. Suitable<br>habitat includes freshwater<br>ponds or streams with calm<br>stable water, and good water<br>quality. Seasonal water is<br>required for up to five months to<br>allow for egg laying, hatching<br>and metamorphosis. | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| <i>Spea hammondii</i><br>Western spadefoot              |    | SSC | The western spadefoot is found<br>in open areas with sandy or<br>gravelly soils in a variety of<br>habitats including mixed<br>woodlands, grasslands, coastal<br>sage scrub, chaparral, sandy<br>washes, lowlands, river                                                                                                                                                                                           | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

|                                            |         | floodplains, alluvial fans,<br>foothills, and mountains.<br>Grasslands with shallow<br>temporary pools are optimal<br>habitats for this species. The<br>western spadefoot requires<br>vernal pools which are<br>essential for breeding and egg-<br>laying and breeds in pools that<br>do not contain bullfrogs, fish, or<br>crayfish. Adults remain in<br>underground burrows for most<br>of the year and will initiate<br>surface movement after the first<br>rains of the year. |    |                                                                                                                                          |
|--------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Taricha torosa*</i><br>Coast range newt | <br>SSC | The coast range newt is found<br>in coastal drainages from<br>Mendocino County to San<br>Diego County. This species<br>nests along margins of bushes<br>or on twigs projecting into<br>pathways, usually willow,<br>Baccharis spp., and mesquite<br>in wet forests, oak forests,<br>chaparral, and grasslands.<br>Breeding takes place in ponds,<br>reservoirs, and streams.<br>Terrestrial individuals will<br>migrate up to 0.25 mile to<br>upland habitat.                     | A  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |
| Mammals                                    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                                                                                                                                          |
| <i>Antrozous pallidus</i><br>Pallid bat    | <br>SSC | The pallid bat is found year-<br>round in a variety of low-                                                                                                                                                                                                                                                                                                                                                                                                                       | HP | Bridge expansion joints and trees in the BSA could                                                                                       |

|                                                               | <br>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                                                                                                                                      |
|---------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                               |         | elevation habitats in most parts<br>of California, including<br>grasslands, shrub lands,<br>woodlands, and forests. This<br>species is thought to prefer<br>open, dry habitats with rocky<br>areas for roosting. This species<br>day roosts in caves, crevices,<br>mines, hollow trees, buildings,<br>and bridges, and night roosts in<br>more open sites, such as<br>porches, open buildings and<br>bridges. Roosts must protect<br>bats from high temperatures,<br>and this species will move<br>deeper into cover if<br>temperatures rise. This species |    | provide suitable roosting<br>habitat for this species.<br>Therefore, there is potential<br>for this species to be in the<br>BSA.                                                                     |
| <i>Eumops perotis<br/>californicus</i><br>Western mastiff bat | <br>SSC | disturbance.<br>The western mastiff bat is<br>found in many open, semi-arid<br>and arid habitats, including<br>conifer and deciduous<br>woodlands, coastal scrub,<br>annual and perennial<br>grasslands, palm oases,<br>chaparral, desert scrub, and<br>urban areas. This species has<br>been recorded throughout<br>central and southern California,<br>with a concentration in southern<br>California. This species roosts<br>in crevices on high vertical cliffs<br>or surfaces (including                                                              | HP | There are buildings, trees,<br>and bridges in the BSA that<br>could provide suitable<br>roosting habitat for this<br>species. Therefore, there is<br>potential for this species to<br>be in the BSA. |

|                                                   |          | buildings), trees, or tunnels.<br>Because of their large size, this<br>species typically requires a<br>larger drop distance from<br>roosting sites.                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                                                                                            |
|---------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lasionycteris<br>noctivagans<br>Silver-haired bat | <br>S3S4 | The silver-haired bat is found in<br>summer in coastal and<br>montane coniferous forests,<br>valley foothill woodlands,<br>pinyon-juniper woodlands, and<br>valleys. This species has been<br>recorded throughout California,<br>with a concentration in northern<br>California. This species roosts<br>in hollow trees, snags,<br>buildings, rock crevices, caves,<br>and under bark. Females may<br>form nursery colonies or may<br>be a solitary individual in dense<br>foliage or hollow trees. This<br>species is thought to need<br>roosting sites in close proximity<br>to water. | A  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                   |
| <i>Lasiurus blossevillii</i><br>Western red bat   | <br>SSC  | The western red bat roosts in<br>forests and woodlands from<br>sea level up through mixed<br>conifer forests. This species<br>roosts primarily in trees,<br>sometimes shrubs; roost sites<br>often are in edge habitats<br>adjacent to streams, fields, or<br>urban areas. This species<br>forages over a wide variety of<br>habitats including grasslands,                                                                                                                                                                                                                              | HP | Trees in the BSA could<br>provide suitable roosting<br>habitat for this species.<br>Therefore, there is potential<br>for this species to be in the<br>BSA. |

|                                                                          |         | shrublands, open woodlands and forests, and croplands.                                                                                                                                                                                                                                                           |    |                                                                                                                                                                           |
|--------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Lasiurus cinereus</i><br>Hoary bat                                    | <br>S4  | The hoary bat is found in a<br>wide variety of habitats and<br>elevations in California. This<br>species generally roosts in<br>dense foliage of medium to<br>large trees, and prefers open<br>habitats or habitat mosaics,<br>with access to trees for cover<br>and open areas or habitat<br>edges for feeding. | HP | Trees in the BSA could<br>provide suitable roosting<br>habitat for this species.<br>Therefore, there is potential<br>for this species to be in the<br>BSA.                |
| <i>Lasiurus xanthinus</i><br>Western yellow bat                          | <br>SSC | The western yellow bat is<br>uncommon in California, and is<br>found in valley foothill riparian,<br>desert riparian, desert wash,<br>and palm oasis habitats. This<br>species roosts in trees,<br>particularly palms, and forages<br>over water and among trees.                                                | HP | There are palm trees in the<br>BSA could provide suitable<br>roosting habitat for this<br>species. Therefore, there is<br>potential for this species to<br>be in the BSA. |
| <i>Microtus californicus<br/>stephensi*</i><br>South coast marsh<br>vole | <br>SSC | The south coast marsh vole is<br>found in tidal marshes in Los<br>Angeles, Orange, and southern<br>Ventura Counties. This species<br>is found in wetland<br>communities and associated<br>grasslands in the immediate<br>coastal zone.                                                                           | A  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                  |
| <i>Myotis velifer*</i><br>Cave myotis                                    | <br>SSC | The cave myotis is known only<br>in southern California, and is<br>found in desert scrub, desert<br>succulent shrub, desert wash,<br>and desert riparian habitats.                                                                                                                                               | HP | Bridge expansion joints in<br>the BSA could provide<br>suitable roosting habitat for<br>this species. Therefore,<br>there is potential for this                           |

|                                                                      |         | This species primarily roosts in<br>crevices in caves, but also uses<br>mines, and occasionally<br>buildings and bridges.                                                                                                                                                                                                                                                                                                                                                            |    | species to be in the BSA.                                                                                                                                                                                                     |
|----------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Myotis yumanensis</i><br>Yuma myotis                              | <br>S4  | The Yuma myotis is found in<br>open forests and woodlands<br>with sources of water over<br>which to feed but has been<br>documented in many urban<br>areas. This species roosts in<br>buildings, mines, caves, or<br>crevices. The species also has<br>been seen roosting in<br>abandoned swallow nests and<br>under bridges.                                                                                                                                                        | HP | Bridge expansion joints,<br>swallow nests under the<br>bridge, and trees in the BSA<br>could provide suitable<br>roosting habitat for this<br>species. Therefore, there is<br>potential for this species to<br>be in the BSA. |
| <i>Neotoma lepida<br/>intermedia*</i><br>San Diego desert<br>woodrat | <br>SSC | The San Diego desert woodrat<br>is found in Joshua tree<br>woodlands, pinyon-juniper<br>woodlands, mixed chaparral,<br>sagebrush, and desert habitats<br>in Southern California from San<br>Diego County to San Luis<br>Obispo County. This species<br>prefers moderate to dense<br>canopies and is particularly<br>abundant in rock outcrops,<br>rocky cliffs, and slopes. The<br>San Diego desert woodrat<br>builds dens using sticks,<br>leaves, and other assorted<br>materials. | A  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                                                      |
| Nyctinomops<br>femorosaccus<br>Pocketed free-tailed                  | <br>SSC | The pocketed free-tailed bat is found in pinyon-juniper                                                                                                                                                                                                                                                                                                                                                                                                                              | HP | Bridge expansion joints in the BSA could provide                                                                                                                                                                              |

| bat                                                              |    |     | woodlands, desert scrub,<br>desert succulent shrub, desert<br>riparian, desert wash, alkali<br>desert scrub, Joshua tree, and<br>palm oasis habitats. This<br>species typically roosts in<br>cavities of cliffs, high rocky<br>outcrops, and slopes, but there<br>is potential for this species to<br>roost in other crevices in<br>structures, including bridges.                         |    | suitable roosting habitat for<br>this species. Therefore,<br>there is potential for this<br>species to be in the BSA.                                                                     |
|------------------------------------------------------------------|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Nyctinomops macrotis</i><br>Big free-tailed bat               |    | SSC | The big-free tailed bat is<br>believed to prefer rugged, rocky<br>canyons, and typically roosts in<br>high cliffs or rock outcrops,<br>buildings, caves, and<br>occasionally in holes in trees.<br>This species has also been<br>documented roosting in<br>bridges.                                                                                                                        | HP | Bridge expansion joints and<br>trees in the BSA could<br>provide suitable roosting<br>habitat for this species.<br>Therefore, there is potential<br>for this species to be in the<br>BSA. |
| Perognathus<br>longimembris<br>pacificus<br>Pacific pocket mouse | FE | SSC | The Pacific pocket mouse is<br>found in fine, sandy soils within<br>approximately two to four miles<br>from the Pacific coast of<br>southern California. Historically,<br>this species was found from the<br>Mexican border to El Segundo<br>in Los Angeles County.<br>Currently, the only known<br>populations are in Dana Point,<br>San Mateo, and on the Camp<br>Pendleton Marine Base. | A  | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                                                  |
| Sorex ornatus                                                    |    | SSC | The southern California saltmarsh shrew is found in                                                                                                                                                                                                                                                                                                                                        | А  | The habitat typically                                                                                                                                                                     |

| salicornicus<br>southern California<br>saltmarsh shrew |         | coastal marshes in Los<br>Angeles, Orange and Ventura<br>Counties. This species requires<br>dense salt marsh vegetation<br>and woody debris for cover.                                                                                                                                                                                                                           |   | preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA.                          |
|--------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Taxidea taxus</i><br>American badger                | <br>SSC | The American badger is most<br>abundant in drier open stages<br>of most shrub, forest, and<br>herbaceous habitats with friable<br>soils. This species needs<br>sufficient food, friable soils and<br>open, uncultivated ground.<br>Ground squirrels are a major<br>prey item, but the American<br>badger will also feed on other<br>burrowing rodents, reptiles, and<br>insects. | A | The habitat typically<br>preferred by this species is<br>not in the BSA; therefore,<br>this species is not expected<br>to be in the BSA. |

Table Key: Absent [A] - no habitat present and no further work needed. Habitat Present [HP] -habitat is, or may be present. The species may be present. Status: Federal Endangered (FE); Federal Threatened (FT); SH = possibly extirpated in the state; State Endangered (SE); State Threatened (ST); Fully Protected (FP); Federally Delisted (DL); Watch List (WL); State Species of Special Concern (SSC);S1 = critically imperiled, less than 1,000 individuals; S2 = imperiled, 1,000 to 3,000 individuals; S3 = vulnerable, 3,000 to 10,000 individuals; S4 = apparently secure within California, there is narrow habitat.

\* = Unprocessed Data - Unprocessed CNDDB data is data that has been submitted to CNDDB. The record of this data has been created but a thorough review by a CDFW biologist has yet to be conducted. This data will be reviewed and incorporated into CNDDB, if appropriate. Unprocessed CNDDB data should be used with caution as the data has not been quality controlled.

Information for the habitat requirements and species range was obtained from the following sources: (NatureServe, 2019), (CDFW, 2020), (Cornell Lab of Ornithology, 2019), (iNaturalist, 2019), (National Audubon Society, 2019), and (USFWS, 2020).

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Pursuant to the February 14, 2018, Memorandum of Agreement (MOA) between the FHWA, California Division, and the FTA, Region 9, we accept the modifications to the 2019 Federal Statewide Transportation Improvement Program (FSTIP) for the SCAG region in accordance with the Final Rule on Statewide and Metropolitan Transportation Planning published in the May 27, 2016 Federal Register. We find that the Connect SoCal 2020-2045 RTP/SCS and 2019 FTIP, as amended, conform to the applicable state implementation plan (SIP) in accordance with the provisions of 40 CFR Parts 51 and 93.

As agreed in the MOA, FHWA's single signature constitutes the FHWA and the FTA's joint approval and air quality conformity determination for SCAG's Connect SoCal 2020-2045 RTP/SCS and 2019 FTIP as amended. Additionally, this approval was made after consultation with the Environmental Protection Agency (EPA), Region 9 Office, pursuant to the Transportation Conformity Rule.

Our approval is given with the understanding that an eligibility determination of individual projects for funding must be met, and the applicant must ensure satisfaction of all administrative and statutory requirements. If you have questions or would like additional information regarding our approval of Amendment No. 12 to the SCAG's portion of the FSTIP, contact Michael Morris of the FHWA California Division's Cal-South Office at (213) 894-4014 or <u>michael.morris@dot.gov</u>; or Mervin Acebo of the FTA's Los Angeles Office at (213) 202-3957 or <u>mervin.acebo@dot.gov</u>.

/s/ Ray Tellis

Ray Tellis Regional Administrator FTA Region 9 Sincerely, TASHIA J CLEMONS

Tashia J. Clemons Director, Planning and Environment FHWA California Division 2

#### TABLE 1 FTIP Projects - Continued

| County      | System        | FTIP ID  | Route # | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Project Cost<br>(\$1,000's) |
|-------------|---------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| LOS ANGELES | STATE HIGHWAY | LA0G1118 | 605     | IMPROVEMENTS TO I-605, I-105 AND I-5 WHICH MAY INCLUDE ONE ADDITIONAL GENERAL PURPOSE, EXPRESS LANE, OR HOV LANE IN EACH DIRECTION.<br>IMPROVEMENTS WILL BE INCORPORATED AT THE MAINLINE, RAMPS, FREEWAY-TO-FREEWAY AND LOCAL INTERCHANGES, AND ADDITION OF AUXILIARY<br>LANES FOR EACH OF THE CORRIDORS.                                                                                                                                                                                      | \$46,894                    |
| LOS ANGELES | STATE HIGHWAY | LA0G1119 | 91      | IMPROVEMENTS CONSIST OF ADDING AN ADDITIONAL GENERAL PURPOSE LANE AND ON/OFF RAMP IMPROVEMENTS.                                                                                                                                                                                                                                                                                                                                                                                                | \$174,800                   |
| LOS ANGELES | STATE HIGHWAY | LA0G1138 | 710     | IMPROVEMENTS TO I-710 SOUNDWALLS. THE PURPOSE OF THIS PROJECT IS TO MITIGATE NOISE LEVELS AND PROVIDE AESTHETIC TREATMENTS ON THE 710 SOUNDWALLS.                                                                                                                                                                                                                                                                                                                                              | \$9,000                     |
| LOS ANGELES | STATE HIGHWAY | LA0G1226 | 101     | THE PROJECT WILL MODIFY EB OFF-RAMP TO INCLUDE A THIRD LEFT TURN LANE; DEMOLITION OF EXISTING/CONSTRUCTION OF A NEW MEDIAN TO ALLOW THE THIRD LANE; STRIPING AND SIGNAL IMPROVEMENTS.                                                                                                                                                                                                                                                                                                          | \$500                       |
| LOS ANGELES | STATE HIGHWAY | LA0G1289 | 1       | PACIFIC COAST HIGHWAY (PCH) SIGNAL SYSTEMS IMPROVEMENTS FROM JOHN TYLER DRIVE TO TOPANGA CANYON BOULEVARD. THE PROJECT LIMITS ARE<br>APPROXIMATELY 8 MILES AND INCLUDE 12 SIGNALS ALONG PCH. THE PROJECT INTENDS TO INTERCONNECT THE TRAFFIC SIGNALS TO ENABLE CALTRANS<br>TO MONITOR AND CONTROL THE SIGNALS REMOTELY AND, IF POSSIBLE, FOR THE TRAFFIC SIGNALS TO ADJUST TO REAL TIME TRAFFIC CONDITIONS. THE<br>PROJECT WILL ALSO INCLUDE ADDITIONAL INTERSECTION AND TRAFFIC IMPROVEMENTS. | \$13,700                    |
| LOS ANGELES | STATE HIGHWAY | LA0G1290 | 47      | PREPARE CALTRANS PROJECT STUDY REPORT (PSR), PROJECT REPORT (PR), PRELIMINARY PLANS AND ENVIRONMENTAL DOCUMENTATION (ED) REPORTS<br>TO OBTAIN CALTRANS APPROVAL AND ENVIRONMENTAL CLEARANCE; DESIGN (PLANS, SPECIFICATION AND ESTIMATE) AND CONSTRUCTION FOR THE SR<br>47/VINCENT THOMAS BRIDGE AND FRONT STREET/HARBOR BOULEVARD INTERCHANGE RECONFIGURATION PROJECT.                                                                                                                         | \$31,050                    |
| LOS ANGELES | STATE HIGHWAY | LA0G1315 | 605     | NORTHBOUND I-605 AT SPRING STREET SOUNDWALL CONSTRUCTION (800 LF).                                                                                                                                                                                                                                                                                                                                                                                                                             | \$250                       |
| LOS ANGELES | STATE HIGHWAY | LA0G1324 | 105     | ROUTE 105: IN LOS ANGELES COUNTY, IN VARIOUS CITIES, BETWEEN IMPERIAL HWY AND I-605, PREPARATION OF PROJECT APPROVAL/ENVIRONMENTAL DOCUMENT FOR POTENTIAL IMPLEMENTATION OF EXPRESS LANES [EA 31450 (PA/ED ONLY)                                                                                                                                                                                                                                                                               | \$8,262                     |
| LOS ANGELES | STATE HIGHWAY | LA0G1355 | 1       | INTERSECTION IMPROVEMENTS ALONG SEPULVEDA BOULEVARD AT ROSECRANS AVENUE, 33RD STREET, MARINE AND CEDAR AVENUE, 14TH STREET AND 2ND STREET. THE PURPOSE OF THIS PROJECT IS TO HELP ALLEVIATE TRAFFIC CONGESTION BY IMPROVING LEFT-HAND TURN POCKETS AT THESE FIVE INTERSECTIONS. EACH TURN LANE IS LESS THAN 1/8TH MILE.                                                                                                                                                                        | \$900                       |
| LOS ANGELES | STATE HIGHWAY | LA0G1444 | 1       | PCH BETWEEN ANITA ST./HERONDO ST. AND ARTESIA BLVD., BOTH N/S BOUND. UPGRADE SIDEWALKS TO ADA STANDARDS. RELOCATE OBSTACLES<br>BLOCKING SIDEWALKS, UPGRADE CORNER ACCESS RAMPS, UNDERGROUND EXPOSED UTILITY LINES(INCL. OVERHEAD), EXISTING PAINTED TWO-WAY LEFT-<br>TURN LANE TO BE RECONSTRUCTED TO INCL. RAISED MEDIANS TO PROVIDE TURN POCKETS TO IMPROVE VEHICULAR/PEDESTRIAN SAFETY. THE MEDIANS<br>WILL BE LANDSCAPED. LANDSCAPE SIDEWALKS WHERE FEASIBLE. 1.28 MILES EA. WAY.          | \$1,150                     |
| LOS ANGELES | STATE HIGHWAY | LA0G1451 | 605     | SB I-605 LOOP ON AND OFF RAMP REMOVAL AND RECONFIGURATION OF THE EXISTING INTERCHANGE AT BEVERLY BLVD. THE SOUTHBOUND I-605 COLLECTOR-DISTRIBUTOR ROAD WILL BE REMOVED FROM THE MAINLINE AND THE NEW RAMPS WILL MERGE/DIVERGE DIRECTLY FROM THE MAINLINE.                                                                                                                                                                                                                                      | \$3,500                     |
| LOS ANGELES | STATE HIGHWAY | LA0G1452 | 605     | PROPOSED IMPROVEMENTS ON THE I-605 CONNECTOR SOUTH ST. OFF RAMP BY ADDING STORAGE CAPACITY AND IMPROVING OPERATIONS.                                                                                                                                                                                                                                                                                                                                                                           | \$22,261                    |
| LOS ANGELES | STATE HIGHWAY | LA0G1453 | 91      | ADD ONE EASTBOUND AUXILIARY LANE FROM I-710 RAMPS AT ATLANTIC AVENUE TO PAST CHERRY AVENUE UNDERCROSSING.                                                                                                                                                                                                                                                                                                                                                                                      | \$8,349                     |
| LOS ANGELES | STATE HIGHWAY | LA0G1454 | 91      | SR-91 CENTRAL AVE INTERCHANGE IMPROVEMENTS PROPOSED IMPROVEMENTS WOULD RECONFIGURE CENTRAL AVE. INTERCHANGE TO A MODIFIED DDI (DIVERGING DIAMOND INTERCHANGE).                                                                                                                                                                                                                                                                                                                                 | \$50,697                    |
| LOS ANGELES | STATE HIGHWAY | LA0G1455 | 91      | SR-91 WILMINGTON AVE. INTERCHANGE PROPOSED IMPROVEMENTS WOULD RECONFIGURE WILMINGTON AVE. INTERCHANGE TO A MODIFIED DDI<br>(DIVERGING DIAMOND INTERCHANGE).                                                                                                                                                                                                                                                                                                                                    | \$42,000                    |
| LOS ANGELES | STATE HIGHWAY | LA0G1456 | 60      | SR-60/7TH AVENUE INTERCHANGE IMPROVEMENT PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$23,075                    |

Connect SoCal

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Project Li

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI



Final 2019 Federal Transportation Improvement Program

Los Angeles County Project Listing State Highway (in \$000's)

| ProjectID             | County              | Air Basin      | Model        | RTP             | ID           | Program      | Route      | Begin        | End            | Signage          | Signage        | System                 | Conformity Category  |                   | Amendment                  |
|-----------------------|---------------------|----------------|--------------|-----------------|--------------|--------------|------------|--------------|----------------|------------------|----------------|------------------------|----------------------|-------------------|----------------------------|
| LA0B951               | Los Angeles         | SCAB           |              | LA0B951         |              | CAX68        | 71         | .5           | .5 4.8         | Dedu             | Eliu           | S                      | TCM Committed        |                   | 0                          |
| Description           | n:                  | 1 Station Area |              |                 |              | 1.17/02/2011 |            | PTC          | 326,392        |                  |                | Agency                 | CALTRANS             |                   |                            |
| Route 71:             | ROUTE 10 TO SA      | N BERNARI      | DINO COUN    | TY LINE - EX    | XPRESSW      | AY TO FR     | EEWAY      | CONVER       | SION - ADD 1   | HOV LAN          | E AND 1 MI     | XED FLOW               | / LANE . (2001)      | CFP 8349, TCRP    | #50) (EA# 210600,          |
| <b>PPNO 274</b>       | 1) (TCRP #50) (Us   | e Toll Credi   | its as Local | Match).         |              |              |            |              |                |                  |                |                        | SPERGER C. Actions   |                   | Concernation of the second |
| Fund                  | and the             | ENG            | R/W          | CON             | Total        | Prior        | 2          | 018/2019     | 2019/2020      | -                | 2020/2021      | 2021/20                | 22 2022/2023         | 2023/2024         | Total                      |
| 2016 EARM<br>REPURPOS | IARK<br>SING        | 10,200         | 37,000       | 10,847          | 58,047       |              |            | 58,047       |                |                  |                |                        |                      |                   | 58,047                     |
| LOCAL TRA             | ANS FUNDS           | 1.000          |              | 253,153         | 253,153      |              |            |              |                |                  |                | 253,1                  | 53                   |                   | 253,153                    |
| NATIONAL              | HWY SYSTEM - RIP    | 1,592          |              |                 | 1,592        | 1,592        |            |              |                |                  |                |                        | 5412.                |                   | 1,592                      |
| TRAFFIC C             | ONGESTION RELIEF    | 13,600         |              |                 | 13,600       | 13,600       |            |              |                |                  |                |                        |                      |                   | 13,600                     |
| LA0B951               | LA0B951 Total       |                | 37,000       | 264,000         | 326,392      | 15,192       |            | 58,047       |                |                  |                | 253,1                  | 53                   |                   | 326,392                    |
| ProjectID             | County              | Air Basin      | Model        | RTP             | ID           | Program      | Route      | Begin        | End            | Signage<br>Begin | Signage<br>End | System                 | Conformity           | Category          | Amendment                  |
| LA0G1454              | Los Angeles         | SCAB           |              | 1M1003          |              | NCRH3        | 91         | 8.43         | 8.44           |                  | 1              | S                      | EXEMPT - 93.1        | 27                | 0                          |
| Description           | n:                  |                |              |                 |              |              |            | PTC          | 50,697         |                  |                | Agency                 | LOS ANGELES          | COUNTY MTA        |                            |
| SR-91 Cer             | ntral Ave Interchan | ae Improven    | nents Prope  | osed improve    | ments wou    | Id reconfic  | ure Cen    | tral Ave. in | terchange to a | modified I       | DDI (divergi   | ng diamond             | interchange).        |                   |                            |
| Fund                  |                     | ENG            | R/W          | CON             | Total        | Prior        | 2          | 018/2019     | 2019/2020      |                  | 2020/2021      | 2021/20                | 22 2022/2023         | 2023/2024         | Total                      |
| MEASURE CAPITAL       | R 20H - HIGHWAY     | 4,902          | 854          | 44,941          | 50,697       |              |            | 2,000        | 2,902          |                  | 22,427         | 23,3                   | 68                   |                   | 50,697                     |
| LA0G1454              | 1 Total             | 4,902          | 854          | 44,941          | 50,697       | -            |            | 2,000        | 2,902          |                  | 22,427         | 23,3                   | 68                   |                   | 50,697                     |
| ProjectID             | County              | Air Basin      | Model        | RTP             | ID           | Program      | Route      | Begin        | End            | Signage<br>Begin | Signage<br>End | System                 | Conformity Category  |                   | Amendment                  |
| LA0G1455              | Los Angeles         | SCAB           |              | 1M1003          |              | NCRH3        | 91         | 9.16         | 9.16           |                  |                | S                      | <b>EXEMPT - 93.1</b> | 27                | 0                          |
| Description           | n:                  |                |              |                 |              |              |            | PTC          | 42,000         |                  |                | Agency                 | LOS ANGELES          | COUNTY MTA        |                            |
| SR-91 Will            | mington Ave. Interc | hange Pro      | posed impro  | vements wou     | Ild reconfic | ure Wilmin   | naton Av   | e. interchar | nge to a modif | ied DDI (di      | iverging diar  | mond interc            | hange).              |                   |                            |
| Fund                  |                     | ENG            | R/W          | CON             | Total        | Prior        | 2          | 018/2019     | 2019/2020      |                  | 2020/2021      | 2021/20                | 22 2022/2023         | 2023/2024         | Total                      |
| CAPITAL               | R 20H - HIGHWAY     | 16,916         | 690          | 24,394          | 42,000       |              |            | 8,458        | 8,688          |                  | 12,427         | 12,4                   | 27                   |                   | 42,000                     |
| LA0G1455              | 5 Total             | 16,916         | 690          | 24,394          | 42,000       |              |            | 8,458        | 8,688          |                  | 12,427         | 12,4                   | 27                   |                   | 42,000                     |
| ProjectID             | County              | Air Basin      | Model        | RTP             | ID           | Program      | Route      | Begin        | End            | Signage<br>Begin | Signage<br>End | System                 | Conformity           | Category          | Amendment                  |
| LA0G1453              | Los Angeles         | SCAB           |              | 1M1003          |              | CAX62        | 91         | 12.11        | 13.1           |                  | 1              | S                      | NON-EXEMPT           |                   | 0                          |
| Description           |                     |                |              |                 | P            |              | PTC        | 84.878       | 8              |                  | Agency         | LOS ANGELES COUNTY MTA |                      |                   |                            |
| EB SR-91<br>Ave WB of | Atlantic Ave to Ch  | erry Ave. I    | mprovemen    | ts to the maili | ne by addi   | ng on mixe   | ed flow la | ane in the E | B direction, w | hich will m      | erge the ins   | ide lane int           | o the opening lar    | ne and the outsid | e lane into Atlantic       |
| Fund                  |                     | ENG            | R/W          | CON             | Total        | Prior        | 2          | 018/2019     | 2019/2020      |                  | 2020/2021      | 2021/20                | 22 2022/2023         | 2023/2024         | Tota                       |
| CAPITAL               | R 20H - HIGHWAY     | 8,349          |              | 76,529          | 84,878       |              |            | 349          | 4,000          |                  | 4,000          | 38,0                   | 00 38,529            |                   | 84,878                     |
| LA0G1453              | 3 Total             | 8,349          |              | 76,529          | 84,878       |              |            | 349          | 4,000          |                  | 4,000          | 38,0                   | 00 38,529            |                   | 84,878                     |

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI



**California Division** 

May 24, 2021

650 Capitol Mall, Suite 4-100 Sacramento, CA 95814 (916) 498-5001 (916) 498-5008 (FAX)

> In Reply, Refer To: HDA-CA

Mr. Tony Tavares, District Director California Department of Transportation District 7 100 South Main Street, Suite 100 Los Angeles, CA 90012-3606

SUBJECT: Project Level Conformity Determination for the Eastbound State Route 91 (SR-91) Auxiliary Lane Project (CTIPS ID: 209-2001-1679)

Dear Mr. Tavares:

On May 4, 2021, the California Department of Transportation (Caltrans) submitted to the Federal Highway Administration (FHWA) a complete request for a project level conformity determination for the Eastbound (EB) State Route 91 (SR-91) Auxiliary Lane Project. The project is in an area that is designated Non-Attainment or Maintenance for Ozone, Carbon Monoxide (CO) and Particulate Matter (PM10, PM 2.5).

The project level conformity analysis submitted by Caltrans indicates that the project-level transportation conformity requirements of 40 CFR Part 93 have been met. The project is included in the Southern California Association of Governments' (SCAG) current Regional Transportation Plan (RTP) and Transportation Improvement Program (TIP), as amended. The design concept and scope of the preferred alternative have not changed significantly from those assumed in the regional emissions analysis.

As required by 40 CFR 93.116 and 93.123, the localized PM2.5 and PM10 analyses are included in the documentation. The analyses demonstrate that the project will not create any new violations of the standards or increase the severity or number of existing violations.

Based on the information provided, FHWA finds that the Eastbound State Route 91 (SR-91) Auxiliary Lane Project conforms with the State Implementation Plan (SIP) in accordance with 40 CFR Part 93.

If you have any questions pertaining to this conformity finding, please contact Joseph Vaughn at (916) 498-5346 or Joseph Vaughn@dot.gov.

Sincerely,

ANTONIO JOHNSON 13:19:46-07:00'

Antonio Johnson Team Leader, Planning & Air Quality

2

To: Tony.Tavares@dot.ca.gov

#### CC:

Rodney.Tavitas@dot.ca.gov Lucas.Sanchez@dot.ca.gov andrew.yoon@dot.ca.gov Antonio Johnson, FHWA Joseph Vaughn, FHWA

CC (via email):

Rodney Tavitas, Caltrans HQ Lucas Sanchez, Caltrans HQ Andrew Yoon, Caltrans HQ Antonio Johnson, FHWA Joseph Vaughn, FHWA Appendix F. Comments on Draft Environmental Document

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## Comment Letter F-1: Connell Dunning, Environmental Protection Agency, February 1, 2021



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX 75 Hawthorne Street San Francisco, CA 94105-3901

February 1, 2021

Mr. Ron Kosinski Deputy District Director, Division of Environmental Planning Caltrans District 7 100 South Main Street MS-16A Los Angeles, California 90012 Attn: SR-91/Atlantic to Cherry Project

#### Subject: Draft Environmental Assessment for the Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project, Los Angeles County, California

Dear Mr. Kosinski:

The U.S. Environmental Protection Agency has reviewed the above-referenced document. Our review is pursuant to the National Environmental Policy Act, Council on Environmental Quality regulations (40 CFR Parts 1500-1508), and our NEPA review authority under Section 309 of the Clean Air Act.

The proposed project would add an auxiliary lane within a 1.4-mile segment of Eastbound SR-91 from the Southbound I-710 interchange to Cherry Avenue in order to improve congestion and safety conditions. The project would entail modifying several bridges, walls, and ramps in order to accommodate the new auxiliary lane. The EPA provides the following recommendations to assist the California Department of Transportation in determining whether a Finding of No Significant Impact can be concluded following the completion of the Environmental Assessment process.

#### Air Quality

The project would take place in the South Coast Air Basin, an area that experiences some of the worst air quality in the country. The SCAB is a federal nonattainment area for ozone (extreme) and particulate matter 2.5 (serious) and a maintenance area for PM<sub>10</sub> and carbon monoxide. According to Section 2.2.5, construction and operation of the proposed project would increase criteria pollutant emissions compared to the No Build Alternative. The Draft EA correctly states that the project was reviewed by the Transportation Conformity Working Group and was determined to not be a Project of Air Quality Concern. While not a POAQC, average daily truck traffic is expected to increase compared to the No Build scenario on 12 of the 18 segments analyzed (Appendix C, PM Conformity Hot Spot Analysis – Project Summary for Interagency Consultation). Table 6 discloses several other planned projects in the area, including capacity increasing projects, which may also increase truck traffic. Given the poor air quality in the project area, and the presence of nearby residences and vulnerable populations, we encourage Caltrans to consider additional opportunities to improve the project's air quality analysis and further reduce the air quality impacts associated with the project.

#### **Recommendations for the Final EA:**

• Consider including a map that discloses the location of sensitive receptors within the project area.

F-1-1

• Include traffic estimates from Appendix C in the Air Quality chapter.

| <ul> <li>Provide a more detailed analysis of cumulative air quality impacts from other planned<br/>projects in the project area, including capacity increasing projects</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F-1-4 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <ul> <li>Identify mitigation measures that could reduce impacts from truck activity associated with the project.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | F-1-5 |
| <ul> <li>In addition to measures AQ-1 through AQ-13, we recommend the following construction<br/>mitigation for consideration:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
| <ul> <li><u>Mobile and Stationary Source Controls:</u> <ul> <li>Reduce unnecessary idling from heavy equipment.</li> <li>Lease or buy newer, cleaner equipment using the best available emissions control technologies.</li> <li>Use lower-emitting engines and fuels, including electric, liquified gas, hydrogen fuel cells, and/or alternative diesel formulations, if feasible.</li> <li><i>On-Highway Vehicles</i> - On-highway vehicles should meet, or exceed, the U.S. EPA exhaust emissions standards for model year 2010 and newer heavy-duty on-highway compression-ignition engines (e.g., drayage trucks, long haul trucks, refuse haulers, shuttle buses, etc.).<sup>1</sup></li> <li><i>Nonroad Vehicles &amp; Equipment</i> - Nonroad vehicles and equipment should meet, or exceed, the U.S. EPA Tier 4 exhaust emissions standards for heavy-duty nonroad compression-ignition engines (e.g., nonroad trucks, construction equipment, cargo handlers, etc.).<sup>2</sup></li> </ul> </li> </ul> | F-1-6 |
| Administrative Controls:<br><ul> <li>Coordinate with appropriate air quality agencies to identify a construction<br/>schedule that minimizes cumulative impacts from other planned projects<br/>in the region if fassible</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |
| <ul> <li>Locate diesel engines, motors, and equipment staging areas as far as possible from residential areas and sensitive receptors (e.g., schools, daycare centers, hospitals, senior centers, etc.).</li> <li>Reduce construction-related trips of workers and equipment, including</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| <ul> <li>trucks.</li> <li>Avoid routing truck traffic near residences and sensitive land uses to the fullest extent feasible.</li> <li>Use cement blended with the maximum feasible amount of industrial materials that reduce GHG emissions from cement production.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |
| <ul> <li>Use lighter-colored pavement where feasible.</li> <li>Recycle construction debris to the maximum extent feasible.</li> <li>Prepare an inventory of all equipment prior to construction and identify the suitability of add-on emission controls for each piece of equipment before groundbreaking.<sup>3</sup></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| ee https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100O9ZZ.pdf<br>ee <u>https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100OA05.pdf</u><br>uitability of control devices is based on: whether there is reduced normal availability of the construction equipment due to<br>record downtime end/or power cutout whether there may be circuiffeent downer equipment to the construction equipment due to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |

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Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

<sup>&</sup>lt;sup>1</sup> Se <sup>2</sup> Se <sup>3</sup> St incre increased downtime and/or power output, whether there may be significant damage engine, or whether there may be a significant risk to nearby workers or the public.

#### **Environmental Justice**

According to the environmental justice analysis in Section 2.1.1, all census block groups in the study area contain high concentrations of minority populations. Table 7 indicates that minority populations account for more than 90% of the total population in seven of the eight census block groups in the project area, three of which contain minority populations greater than 95%. It discloses that these populations would be affected by construction activities, including noise, air quality, and traffic impacts, but concludes that the project would not cause disproportionately high and adverse impacts to populations with environmental justice concerns because "construction-related impacts would not be predominantly borne by Environmental Justice populations when compared with non-Environmental Justice populations (p. 37)." The Draft EA does not appear to explain the rationale behind the conclusion of no disproportionate impacts. Page 38 states that "the Project would not increase traffic in low-income and minority neighborhoods..." The assessment does not appear to account for increases in truck traffic associated with the project.

**Recommendations for the Final EA:** 

| <ul> <li>Include a more detailed description of the project's potential to result in<br/>disproportionately high and adverse impacts to populations with environmental<br/>justice concerns. CEQ guidance<sup>4</sup> and resources developed by the Federal Interagency<br/>Working Group on Environmental Justice<sup>5</sup> may assist in this process.</li> </ul> | F-1-8  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <ul> <li>Consider including maps that illustrate concentrations of minority and low-income<br/>populations in the project area.</li> </ul>                                                                                                                                                                                                                             | F-1-9  |
| <ul> <li>Ensure that the environmental justice analysis accounts for increases in truck activity associated with the project.</li> </ul>                                                                                                                                                                                                                               | F-1-10 |
| • Should the conclusion change to potential disproportionate impacts, identify the possible mitigation opportunities to lessen those impacts.                                                                                                                                                                                                                          | F-1-11 |

F-1-7

We appreciate the opportunity to provide feedback on the Draft EA. Please send an electronic copy of the Final EA when it becomes available to capilla.morgan@epa.gov. If you have any questions, please contact me at 415-947-4167, or Morgan Capilla, the lead reviewer for this project, at 415-972-3504 or capilla.morgan@epa.gov.

Sincerely, CONNELL Digitally signed by CONNELL DUNNING DUNNING Date: 2021.02.01 15:31:58-08'00'

For Jean Prijatel Manager, Environmental Review Branch

cc via email: Brenda Powell-Jones, Caltrans Kelly Dunlap, Caltrans

 <sup>4</sup> Council on Environmental Quality. Environmental Justice: Guidance under the National Environmental Policy Act. 1997. Available at: <u>https://www.epa.gov/sites/production/files/2015-02/documents/ej\_guidance\_nepa\_ceq1297.pdf</u>
 <sup>5</sup> Federal Interagency Working Group on Environmental Justice & NEPA Committee. Promising Practices for EJ Methodologies in NEPA Reviews. 2016. Available at: <u>https://www.epa.gov/sites/production/files/2016-08/documents/nepa\_promising\_practices\_document\_2016.pdf</u>

# Appendix F. Comments on Draft Environmental Document

Thoa Le, Caltrans Lijin Sun, South Coast Air Quality Management District

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI May 2021

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**Response F-1-1:** Thank you for your comment. Caltrans acknowledges that the U.S. Environmental Protection Agency (EPA) has designated the South Coast Air Basin (Basin), which includes the Study Area, as an extreme ozone non-attainment area and a non-attainment area for small airborne particulate matter less than 10 and 2.5 microns (PM10 and PM2.5). The commentor is correct that this Project was determined not to be a Project of Air Quality Concern (POAQC) by the Transportation Conformity Working Group because the increase in truck traffic does not meet the threshold for determination as a POAQC. The proposed 0.86 mile auxiliary lane on EB State Route 91 is planned to enhance safety conditions, reduce congestion, and improve freeway operations.

Caltrans and Metro are actively engaged in identifying opportunities to improve the air quality in the project area, including innovative programs that will benefit the community within this Project Study Area. The Project will comply with ECR noise and construction vibration measures during construction which include AVM-NOI-1 to AVM-NOI-3, and ECR air quality measures PF-AQ-1 to PF-AQ-13. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for an updated list of measures, including additional measures that will minimize construction impacts to the community. The additional measures include but are not limited to:

- Modify construction staging to expedite construction and minimize exposure time to adjacent residents (Measure PF-COM-3 has been updated to include this additional language).
- Measure PF-COM-4 has been added, which states that during Final Design, Caltrans and Metro will consider and incorporate measures that support equity, environmental justice and community values by minimizing construction impacts to those who may be directly impacted.
- Use of equipment and tools with minimal noise/vibration (Measure AVM-NOI-2 was updated to include this additional language).
- During final design, use of rubberized asphalt on the re-constructed portion of the Atlantic Avenue on-ramp and Cherry Avenue off-ramp would be explored to as a long-term noise reduction method (AVM-NOI-4 is a new measure that has been included as an Avoidance and Minimization measure).
- Construction activity sources are required to implement best available control measures for the control of fugitive dust in order to comply with SCAQMD Rule 403 (Measure PF-AQ-14 is a new measure that has been included as a project feature).

**Response F-1-2:** Thank you for your comment. A paragraph describing sensitive land uses within the project area has been added to Section 2.2.5 Air Quality under Affected Environment.

**Response F-1-3:** Thank you for your comment. Traffic estimates are included in Table 22 -Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes - Opening Year 2024. For your reference, Table 22 can be found under the Traffic Operations subsection of Section 2.1.3 Traffic and Transportation/Pedestrian and Bicycle Facilities.

**Response F-1-4:** The environmental document has been reviewed and revised accordingly to describe the cumulative impacts of current and future projects. As mentioned in the Cumulative Impacts section in Chapter 2, one proposed commercial development project is under construction; one proposed greenbelt project is under preliminary design; two transportation projects and one safety project in the Project Approval and Environmental Document phase, and one safety project in the Plans, Specifications, and Estimates phase. All major roadway

improvement projects were included in the SCAG regional model, including both transportation projects (I-710 Corridor and SR-91/Central to Acacia). Of the two transportation projects, only one is capacity enhancing (Interstate 710 Corridor Project). The short and long term effects of the projects listed in Table 6 as having the potential to contribute to a cumulative air quality impact were analyzed in the Cumulative Impacts subsection of Section 2.2.5, and is located following the list of Air Quality Project Features.

The construction of the EB SR-91/Atlantic to Cherry Project could overlap with other transportation projects identified in Table 6. The transportation projects are also included in the SCAG 2020/2045 RTP/SCS and would contribute to temporary increases in air pollutant emissions that would be spread over the 25-year planning horizon. However, all projects would be required to implement measures to reduce air pollutant emissions in accordance with Section 14-9 of Caltrans' Standard Specifications and SCAQMD rules and regulations. Therefore, the EB SR-91/Atlantic to Cherry Project, in combination with other projects that could overlap during construction, would not result in substantial temporary cumulative impacts on air quality. Project operation would result in minimal changes in air quality and the project would not result in permanent, cumulative impacts on air quality.

**Response F-1-5:** Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for a list of measures, including measures that will minimize construction impacts to the community. Measures related to truck activity include construction efficiency measures to use newer, more energy efficient equipment where feasible (AVM-EN-3) and scheduling of construction operations to efficiently use construction equipment, such as only hauling waste when haul trucks are full. Concerns about construction have been responded to in Comment Response F-1-1.

The project would include operational improvements to SR-91 and would not result in significant increases in overall traffic or truck volumes. A truck traffic discussion has been added to the respective discussions for Traffic, Air Quality, and Noise in Section 2.1.1 Environmental Justice. See also Table 22 Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes-Opening Year 2024 and Table 24 Comparison of Eastbound Segment Traffic and truck volumes for the No Build, Opening Year (2024) and Design Year (2045) show that the project would not result in significant increases in overall traffic or truck volumes. Average daily traffic and truck volumes for Opening Year (2024) compared to the No Build Condition show an increase in truck traffic from 0% to 3% for all project segments. For Design Year (2045) the change from No Build Conditions shows a similar increase in truck traffic from 0% to 3% for all project segments. The proposed Build Alternative would not result in a significant increase in truck volumes.

**Response F-1-6:** The following mitigation measures for Mobile and Stationary Source Controls and Administrative Controls were taken into consideration. Some measures listed under Administrative Controls are already included in the Environmental Commitments Record (ECR) for this project. For example, AVM-EN-1 through AVM-EN-5 include construction efficiency measures such as recycling asphalt taken up from roadways (AVM-EN-2), using newer, more energy-efficient equipment where feasible (AVM-EN-3), scheduling of construction operations to efficiently use construction equipment, such as only hauling waste when haul trucks are full (AVM-EN-4), and encouraging and promoting carpooling of construction employees (AVM-EN-5). Caltrans is also committed to the use of low-emission construction equipment and vehicles, which is anticipated to include equipment meeting the newer Tier 4 emission standards in the future. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for the complete list of measures, which include measures that would be in place during construction to minimize impact to the community. The Project will comply with construction standards adopted by the South Coast Air Quality Management District (SCAQMD) as well as Caltrans standardized procedures for minimizing air pollutants during construction. The Project will comply with ECR noise and construction vibration measures during construction which include AVM-NOI-1 to AVM-NOI-3, and ECR air quality measures PF-AQ-1 to PF-AQ-14. Measure PF-AQ-14 is a project feature that has been included to ensure compliance with best available control measures that are utilized for the control of fugitive dust in order to comply with South Coast Air Quality Management District (SCAQMD) Rule 403. Caltrans being committed to the use of low-emission construction equipment and vehicles, which is anticipated to include equipment meeting the newer Tier 4 emission standards in the future (see also AVM-EN-4).

**Response F-1-7:** Section 2.1.1 Environmental Justice has been reviewed and revised accordingly to ensure that the conclusion of no disproportionate impacts is clarified and the rationale behind the conclusion has been provided. Please note, the project would include operational improvements to SR-91 and would not result in significant increases in overall traffic or truck volumes. A truck traffic discussion has been added to the respective discussions for Traffic, Air Quality, and Noise in Section 2.1.1 Environmental Justice. See also Table 22 Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes-Opening Year 2024 and Table 24 Comparison of Eastbound Segment Traffic and truck volumes for the No Build, Opening Year (2024) and Design Year (2045) show that the project would not result in significant increases in overall traffic or truck volumes. Average daily traffic and truck volumes for Opening Year (2024) compared to the No Build Condition show an increase in truck traffic from 0% to 3% for all project segments. The proposed Build Alternative would not result in a significant increase in truck volumes.

**Response F-1-8:** Section 2.1.1 Environmental Justice has been updated to include a more thorough description of the project's potential to result in a disproportionate effect to Environmental Justice populations.

**Response F-1-9:** Please refer to Table 7 - 2017 Minority Populations and Table 8 - Median Household Income in the Past 12 Months in Section 2.1.1 Environmental Justice for the demographic information broken down by the Census Block Groups within the Study Area. Additionally, Figure 7 - Census Block Groups has been added to Section 2.1.1 to cross-reference data provided within Tables 7 and 8.

**Response F-1-10:** The Environmental Consequences subsection of Section 2.1.1 Environmental Justice and the Traffic Operations subsection of Section 2.1.3 Traffic and Transportation/Pedestrian and Bicycle Facilities has been updated to discuss the increase in truck activity as a result of this project.

The project would include operational improvements to SR-91 and would not result in significant increases in overall traffic or truck volumes. A truck traffic discussion has been added to the respective discussions for Traffic, Air Quality, and Noise in Section 2.1.1 Environmental Justice. See also Table 22 Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes-Opening Year 2024 and Table 24 Comparison of Eastbound Segment Traffic Average Daily Traffic Average Daily Traffic Volumes-Opening Year 2045. A review of average daily traffic and truck volumes for the

No Build, Opening Year (2024) and Design Year (2045) show that the project would not result in significant increases in overall traffic or truck volumes. Average daily traffic and truck volumes for Opening Year (2024) compared to the No Build Condition show an increase in truck traffic from 0% to 3% for all project segments. For Design Year (2045) the change from No Build Conditions shows a similar increase in truck traffic from 0% to 3% for all project segments. The proposed Build Alternative would not result in a significant increase in truck volumes.

**Response F-1-11:** Section 2.1.1 Environmental Justice has been updated to better describe the Project's potential for disproportionate effects to Environmental Justice populations. The conclusion did not change, but more information has been provided to support the finding.

**Response F-1-12:** Your request for an electronic copy of the Final MND/FONSI has been noted. You will be provided with an electronic document when it becomes available.

# Comment Letter L-1: Diana Morales, Office of Assemblymember Rendon, January 29, 2021

From: Morales, Diana <Diana.Morales@asm.ca.gov>
Sent: Friday, January 29, 2021 10:26 AM
To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>
Cc: Horne, Avery <Avery.Horne@asm.ca.gov>; McIntyre, Julius <Julius.McIntyre@asm.ca.gov>
Subject: EB SR-91/Atlantic to Cherry Ave community concerns

EXTERNAL EMAIL. Links/attachments may not be safe.

Good morning,

I am reaching out in regards to the EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project. Our office has received complaints about the lack of community outreach and engagement for the project. Below are some of the concerns from the community.

-Lack of full EIR.

-The letter they received about the project dated December 11, 2020 does not specify the scope of households notified, and no notices were in Spanish in a majority Latin-X community.

L-1-1

Speaker Anthony Rendon represents the community directly impacted by the project area. We respectfully request an extension of your public comment period scheduled to end on February 1<sup>st</sup> and a bilingual community meeting to better educate constituents in the area.

If you have any questions please feel free to give me a call.

Best regards,

#### **Diana Morales**

District Director Office of Assemblymember Anthony Rendon (AD-63) 4909 Lakewood Blvd Suite 400 Lakewood, CA 90712 Phone: (562) 529-3250 **Response L-1-1:** Thank you for your feedback. The Project Development Team engaged the public in accordance with the requirements specified under CEQA and NEPA. In addition to the notices residents received during the public circulation period, the Notice of Availability was published in two local newspapers, the Long Beach Press-Telegram (English) and La Opinion (Spanish) when the public circulation period began, and a second round of newspaper ads were published when the circulation period was extended to provide additional details about the public hearing. Additionally, Metro's project website has been updated accordingly to include project materials, such as the fact sheet (in English and Spanish), the FAQ (in English and Spanish), and the presentation materials (English and Spanish). Throughout the project, there have also been ongoing interagency coordination meetings with the City of Long Beach and Gateway Cities Council of Governments. On December 16, 2020, a community meeting with the Hamilton Neighborhood Association was held at the request of Vice Mayor Rex Richardson to provide a project update to residents and keep the line of communication open between residents and project team members.

A formal request for a virtual public hearing was submitted to the Project Development Team. A virtual public hearing was held on Thursday, February 18, 2021 from 6pm - 8pm. Details of the virtual public hearing were published in two newspapers, the Long Beach Press-Telegram (English) and La Opinion (Spanish) one week in advance. Notices with the hearing details were also mailed to residents in proximity to the Project Area (owners or occupants of properties to the south of East 68th Street, to the north of Artesia Boulevard, to the east of I-710, and to the west of the Union Pacific Railroad that runs between Cherry and Paramount Avenues).

The virtual public hearing was held through the Zoom meeting platform, with options to listen to the presentation in English and Spanish language translations. For those without internet access, a call-in number was also provided with an option for a dedicated Spanish call-in number. Please refer to Chapter 4 - Comments and Coordination of the Draft Initial Study/Environmental Assessment (IS/EA) described the limits of household notified of the Notice of Availability: residents in proximity to the Project Area (owners or occupants of properties to the south of East 68th Street, to the north of Artesia Boulevard, to the east of I-710, and to the west of the Union Pacific Railroad that runs between Cherry and Paramount Avenues). The public circulation and comment period was extended to March 1, 2021 for a total of 75 days.

The IS/EA was prepared based on technical studies conducted for the project, which followed state and federal requirements. Under CEQA, the IS concluded that the project had no impact, less than significant impact, or less than significant impact with mitigation incorporated to affected resources. After public circulation and consideration of public comments, the IS/EA was revised as needed. The conclusion that the project would not result in any significant impact to the environment was unchanged, so a Mitigated Negative Declaration (MND) was prepared and an Environmental Impact Report (EIR) was not required. Similarly, under NEPA, an EA was prepared. After public circulation and consideration of public comments, the IS/EA was revised as needed. Based on the revised EA, it was concluded that the project as a whole would not have a significant impact on the environmental Impact Statement (EIS) was not required.

### Comment Letter L-2: Thomas B. Modica, City of Long Beach, February 18, 2021



Office of the City Manager 411 West Ocean Boulevard, 10<sup>17</sup> Floor Long Beach, CA 90802 (562) 570-6711

February 18, 2021

Ronald Kosinski, Deputy District Director Caltrans District 7 Division of Environmental Planning 100 South Main Street, MS-16A Los Angeles, CA 90012 Attn: Eastbound SR-91/Atlantic to Cherry Project Email: <u>D07.91AtlanticToCherry@dot.ca.gov</u>

#### Subject: Draft IS/EA for Eastbound SR-91/Atlantic to Cherry Project

Dear Mr. Kosinski:

Thank you for the opportunity to comment on the Draft Initial Study with Proposed Mitigated Negative Declaration/Environmental Assessment (IS/EA). The Study Area includes Eastbound State Route 91 (Post Miles [PM] R11.8/R13.2) and is located in the City of Long Beach. City of Long Beach staff would like to acknowledge that the Los Angeles County Metropolitan Transportation Authority (Metro) and California Department of Transportation (Caltrans) teams have been open and accommodating to the needs and concerns communicated by the City of Long Beach. City of Long Beach staff looks forward to continued communication and coordination at such time this Project moves forward.

As stated in the IS/EA, Metro, in cooperation with the Gateway Cities Council of Governments and Caltrans District 7, proposed to develop and implement an auxiliary lane on Eastbound State Route 91 within a 1.4-mile segment from the southbound Interstate 710 (I-710) to eastbound State Route 91, to Cherry Avenue (Project), located within the City of Long Beach. Simultaneously, the City completed an inclusive community-driven park planning process to identify additional open space in North Long Beach, which currently only has .9 acres of open space per 1,000 residents and has limited opportunities for additional open space. This process led to the Uptown Open Space Vision Plan which identified a series of possible open space projects, including the Hamilton Loop Greenbelt (Greenbelt), a 2-mile greenbelt connector and walking loop around the 91 Freeway from Atlantic Avenue to Cherry Avenue in Long Beach. The Greenbelt was the open space opportunity that received the greatest amount of community support and a design funded by the Long Beach Department of Health and Human Services through a Healthy Eating Active Living (HEAL) Zone grant from Kaiser



L-2-2

Permanente. The intention of the Greenbelt is to re-envision the very infrastructure that has long divided and isolated the Hamilton community. The Hamilton Loop Vision Plan was adopted by the Long Beach City Council on January 19, 2021 (Attachment A).

The property included in the Hamilton Loop Vision Plan is owned by Caltrans and over the course of a year, City staff have been in communication with Metro and Caltrans teams to share the Hamilton Loop Vision Plan concepts. During these discussions, Metro and Caltrans teams have been supportive of the Greenbelt concept and shared Project information and potential impacts on future implementation of the Greenbelt. These discussion have resulted in initial commitments to accommodate the Greenbelt on Caltrans property and the City seeks to ensure that any future Project would not limit, but rather facilitate, the implementation of the Greenbelt as envisioned by the community in Hamilton Loop Vision Plan.

The City of Long Beach has the following comments on the Draft IS/EA:

- City staff would like to underscore the importance of coordination during design and at key milestones throughout the Project, at such time the Project moves forward. The City recognizes that it is far easier to make decisions to accommodate the Greenbelt during Project design, and the City wants to ensure design decisions are made to allow for the Greenbelt amenities at the general locations they are envisioned in the Hamilton Loop Vision Plan. These include the placement and the type of drought-tolerant carbon-sequestering trees and landscape, placement of fencing, utility stub-outs and sleeving for future electrical connection lighting and irrigation controls, water connections, retaining wall areas for future murals, etc. This is consistent with commitments from Caltrans and Metro staff to date. Additionally, the City is seeking partnership with Caltrans to help assist with coordination and issuance of any Caltrans permits and cooperative agreements that will be required to deliver the City's Hamilton Loop Project.
- The Hamilton Loop Vision Plan is designed to be implemented within the existing freeway embankment land areas and City street right-of-way and assumed no changes to the freeway slope and retaining wall during the community process. However, during discussions between City staff and Metro and Caltrans staff the Project has been proposed to be modified with changes to the retaining wall and slope to fully accommodate the Greenbelt within Caltrans property, no longer requiring changes to City street right-of-way. At such time the Project moves forward, the proposed changes to the retaining wall and slope are supported by the City as a way to fully accommodate the Greenbelt consistent with the Hamilton Loop Vision Plan.
- Currently, the Greenbelt is unfunded. As the City staff works to secure funding for the full development phases of the Greenbelt, the City will be requesting letters of support to provide to grant agencies along with requests for funding. The City is seeking Caltrans support on providing these letters of support when requested.

L-2-6

L-2-5

L-2-2 (cont.)

| • There is currently a north/south bike lane on Orange Avenue that crosses under<br>the 91 Freeway. The Orange Avenue bike lane is included in the City's 2013<br>Mobility Element as bike/pedestrian route 39 (Map 20) and the 2017 Bike Master<br>Plan. Any Project elements shall be designed to protect the Orange Avenue bike<br>lane in place as constructed.                                                                                                                                                                                                                                                                           | L-2-7  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <ul> <li>Incorporate and implement Crime Prevention Through Environmental Design<br/>(CPTED) in the Project design. The intent of CPTED is to help prevent crime by<br/>design of the built environment by increasing the perception of natural surveillance,<br/>adequate lighting and other safety measures. To address existing safety issues,<br/>the Project should include research to understand crime history in the area and<br/>upgraded LED lighting under each underpass and on the approach to each<br/>underpass of the 91 Freeway to improve pedestrian safety.</li> </ul>                                                     | L-2-8  |
| <ul> <li>Trash is a pollutant of concern as part of the City's NPDES permit. While the IS/EA acknowledges construction trash and debris, it does not identify long term mitigation of trash on the project post-construction. On occasion, Caltrans embankments have served as a repository for illegal dumping of trash and bulky items, and the City expects Caltrans to have an operational plan to clean this up regularly. During rain events, this trash can end up flowing into the City's storm drain system creating water quality issues or can block curb inlets and cause flooding.</li> </ul>                                    | L-2-9  |
| <ul> <li>The City has adopted Vehicle Miles Traveled (VMT) Guidelines for transportation projects consist with state guidance. The transportation analysis should include VMT analysis, in addition to a Level of Service (LOS) analysis, to assess the proposed project's VMT impacts and it's potential to induce growth in vehicle of trips and identify potential mitigation measures. Please see the City of Long Beach CEQA Transportation Thresholds of Significance Guide, Section 5.0 Significance Threshold for Transportation Projects, which details requirements for using VMT to determine CEQA impacts.<sup>1</sup></li> </ul> | L-2-10 |
| <ul> <li>The Hamilton Loop Vision Plan focuses on the development of Phase One,<br/>bounded by Myrtle Avenue to the west and Walnut Avenue to the east. The Project<br/>should take into consideration the full buildout of the Hamilton Loop Greenbelt.<br/>Future Hamilton Loop Greenbelt phases will include expansion onto Atlantic and</li> </ul>                                                                                                                                                                                                                                                                                        | L-2-11 |
| Cherry Avenues, which is included in the Project area. As this Project focuses on the south side of SR-91, any future developments to the north side of SR-91 should take into consideration the Hamilton Loop Vision Plan.                                                                                                                                                                                                                                                                                                                                                                                                                   |        |
| <ul> <li>City staff would like to better understand plans for the segment between Walnut<br/>and Cherry Avenues because it appears as though the Project would render future</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | L-2-12 |
| <sup>1</sup> <u>http://www.longbeach.gov/globalassets/lbds/media-library/documents/planning/environmental/environmental-planning/ceqa-transportation-thresholds-of-significance-guide</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |

## **Appendix F. Comments on Draft Environmental Document**

phases of the Greenbelt non-implementable as currently envisioned. It could be the case that an elevated off ramp could provide some area underneath to be developed for park purposes, however City staff would like to better understand plans for this area.

Thank you for considering our comments on the Draft IS/EA. If you have any questions regarding this letter, please contact me at (562) 570-5091 or <u>Tom.Modica@LongBeach.gov.</u>

Sincerely,

Lunda F. Jahren for

Thomas B. Modica City Manager

EXECUTED PURSUANT TO SECTION 301 OF THE CITY CHARTER

ATTACHMENTS A – Hamilton Loop Vision Plan

cc: Oscar Orci, Director of Development Services Christopher Koontz, Deputy Director of Development Services Patricia Diefenderfer, Planning Bureau Manager Alvin Papa, City Engineer Brent Dennis, Director of Parks, Recreation and Marine Meredith Reynolds, Park Planning and Partnerships Manager Carl Hickman, Traffic and Transportation Manager
**Response L-2-1:** Caltrans and Metro will continue to communicate and coordinate with City of Long Beach staff throughout final design and construction of the EB SR-91 Atlantic Avenue to Cherry Avenue Project.

**Response L-2-2:** Thank you for your comment. The Project Team is aware of the Hamilton Loop Project and will continue open coordination with the City of Long Beach. The Project Team notes for the record that the Hamilton Loop Vision Plan, adopted by the Long Beach City Council on January 19, 2021 was provided in Attachment A as an enclosure to the City's letter.

**Response L-2-3:** Metro is committed to ensuring there is ongoing coordination with the City of Long Beach during design and at key milestones throughout the EB SR-91 Atlantic Avenue to Cherry Avenue Project. This coordination will include deciding what Hamilton Loop Project elements are feasible to incorporate at this time and which ones will need to be incorporated later during the Hamilton Loop Project construction should it move forward. The Project will include the deeper retaining walls which will provide additional flat space for more landscape concepts to facilitate the implementation of the Hamilton Loop Project. Additional landscape, lighting, irrigation, and storm water elements will be part of the ongoing coordination discussions between the Project team and the City of Long Beach to see what elements can be included during the Project's final design phase.

**Response L-2-4:** For any work within Caltrans right of way, the City will need to submit an application for the encroachment permit. Caltrans will assist with the coordination and review process, and if the proposed work meets Caltrans' standards and requirements, will collaborate on any necessary permits, cooperative agreements, and maintenance agreements for the City's Hamilton Loop Project.

**Response L-2-5:** The City of Long Beach's support for the proposed changes to the retaining wall and slope to fully accommodate the Greenbelt and be consistent with the Hamilton Loop Vision Plan is noted for the record.

**Response L-2-6:** Caltrans will also provide letters of support for projects that meet our guiding principles for non-State grants. If the Greenbelt meets these guiding principles, Caltrans will work with the City of Long Beach to provide such a letter to grant agencies when requested.

**Response L-2-7:** The Orange Avenue bike lane will not be impacted by project. During construction, when the Orange Avenue Bridge is widened, local traffic, including bike lane access, under the SR-91 freeway will be maintained.

**Response L-2-8:** Thank you for your suggestion. The Project Team will analyze the use of LED lighting to each underpass during final design.

**Response L-2-9:** Implementation of the Project includes complying with the State NPDES requirements and Los Angeles River Trash TMDL. The existing BMPs within the project limits are Gross Solid Removal Devices (GSRDs). GSRDs include physical or mechanical methods to remove litter and solids 0.20 inch nominal and larger from the stormwater runoff, usually done using various screening technologies. The proposed project will either protect in place the existing GSRDs or replace with new ones if impacted by the proposed improvements. The post-construction treatment area exceeds the total new impervious surfaces in the proposed project. The GSRDs will be installed to capture trash draining to Los Angeles River. Continued coordination with the City of Long Beach and Caltrans may involve reassessing the existing

maintenance agreement between the City and Caltrans and also making sure the Hamilton Loop Project design also considers and is aware of the existing and proposed BMPs within the Caltrans right of way.

**Response L-2-10:** As the CEQA lead agency for this project, Caltrans follows the California Governor's Office of Planning and Research (OPR) guidance for both CEQA and project impact analysis. Per Caltrans and OPR guidance and technical advisory, Caltrans determined that a VMT-based transportation impact significance determination is not warranted for this Project because the "addition of an auxiliary lane of less than one mile in length designed to improve roadway safety" is a project type "not likely to lead to a measurable and substantial increase in vehicle travel " (Caltrans Transportation Analysis under CEQA [TAC], September 2020, p. 14 and OPR Technical Advisory on Evaluating Transportation Impacts in CEQA, December 2018, p. 21) and therefore can be screened out from further analysis, obviating the need for mitigation.

**Response L-2-11:** The Project Team is looking at opportunities to include elements of the Hamilton Loop Project to facilitate its future implementation should the Hamilton Loop Project move forward. The Project is being constructed within Caltrans and City of Long Beach (small aerial easement) right of way, and is a separate project with a separate funding source than the Hamilton Loop Project. In a sense of collaboration, the Project is looking at opportunities to include elements of the Hamilton Loop Project to facilitate its future implementation. This Project can only evaluate elements of the Hamilton Loop Project that are within its project limits (in this case the southern part of the Hamilton Loop Project between Myrtle and Walnut).

**Response L-2-12:** The proposed project improvements between Walnut Avenue and Cherry Avenue will be constructed mostly within the existing Caltrans right of way. There is a small sliver (in the shape of a long semicircle) that requires an aerial easement from the City of Long Beach. This sliver improves safety on the freeway side by increasing the line of sight and reducing the potential for accidents. This sliver is approximately 150ft long and up to 6ft wide. The 65% Layouts, Construction Details, Utility Plans and Typical Sections will be provided during final design to City of Long Beach for their review.

**Response L-2-13:** Thank you for your comment. This contact information has been noted for the record.

### Comment Letter R-1: Adriana Raza, Los Angeles County Sanitation Districts, February 1, 2021



Robert C. Ferrante Chief Engineer and General Manager

1955 Workman Mill Road, Whittier, CA 90601-1400 Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998 (562) 699-7411 • www.lacsd.org

February 1, 2021

Ref. DOC 6004593

Mr. Ronald Kosinski, Deputy District Director Division of Environmental Planning California Department of Transportation 100 South Main Street MS-16A Los Angeles, CA 90012

Dear Mr. Kosinski:

#### NOI Response for the Eastbound State Route 91/ Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement Project

The Los Angeles County Sanitation Districts (Districts) received a Notice of Intent to Adopt a Mitigated Negative Declaration (NOI) for the subject project on December 17, 2020. The proposed project is located within the jurisdictional boundary of Districts Nos. 1 and 3. We offer the following comment:

• The proposed project may impact existing and/or proposed Districts' facilities (e.g. trunk sewers, recycled waterlines, etc.) over which it will be constructed. Districts' facilities are located directly under and/or cross directly beneath the proposed project alignment. The Districts cannot issue a detailed response to or permit construction of, the proposed project until project plans and specification that incorporate Districts' facilities are submitted for our review. To obtain copies of as-built drawings of the Districts' facilities within the project limits, please contact the Districts' Engineering Counter at <u>engineeringcounter@lacsd.org</u> or (562) 908-4288, extension 1205. When project plans that incorporate our facilities have been prepared, please submit copies of the same to the Engineering Counter for our review and comment.

R-1-1

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2717 or at araza@lacsd.org.

Very truly yours,

aduana Jaza

Adriana Raza Customer Service Specialist Facilities Planning Department

AR:ar

cc:

A. Howard R. Paracuelles Engineering Counter

DOC 6051013.D0103

**Response R-1-1:** The project team obtained the copies of as-built drawings within the project limits from engineeringcounter@lacsd.org on November 2018. The existing LA County sewer lines do not have conflict with the project improvements. The project team will submit copies of the project plans to Engineering Counter for review and comment.

## Comment Letter R-2: Jo Kay Ghosh, Ph.D, South Coast Air Quality Management District, February 4, 2021



SENT VIA EMAIL:

February 4, 2021

D07.91AtlanticToCherry@dot.ca.gov Thoa Le, Senior Environmental Planner California Department of Transportation, District 7 100 South Main Street MS-16A Los Angeles, CA 90012

Re: Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project

Dear Thoa Le,

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project (Proposed Project). The proposed project is adjacent to the Wilmington, Carson, West Long Beach WCWLB) community. This community is impacted by high cumulative exposure burdens for toxic air contaminants, including Diesel Particulate Matter (DPM).

Health and Safety Code 44391.2, also known as Assembly Bill (AB) 617, requires new community-focused action to reduce air pollution and improve public health in WCWLB and other communities selected by the California Air Resources Board (CARB) experiencing disproportionate burdens from exposure to air pollutants. As a result, the WCWLB Community Emissions Reduction Plan (CERP) was adopted by South Coast AQMD and approved by CARB in 2019. The WCWLB CERP is available at <a href="https://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/wilmington/cerp/final-cerp-wcwlb.pdf?sfvrsn=8">https://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/wilmington/cerp/final-cerp-wcwlb.pdf?sfvrsn=8</a>.

The WCWLB CERP establishes community emission and exposure reduction goals by 2024 and 2030. The WCWLB CERP focuses on reductions in DPM and Nitrogen Oxides (NOx). DPM is a carcinogen, with numerous scientific studies linking long-term DPM exposure to increased lung cancer risk and lung inflammation, which can cause chronic respiratory diseases. Short-term DPM exposures can also cause respiratory irritation and aggravate asthma and allergy symptoms. Numerous studies have also linked traffic-related air pollution exposures to increased risks of a variety of health outcomes, including heart and lung diseases. Due to the proximity of the proposed project to the WCWLB community, and given the high cumulative exposure burden in this community, the South Coast AQMD staff recommends that the Lead Agency require the use

R-2-1

of clean off-road construction equipment at the Proposed Project by including the measure below in the Final Mitigated Negative Declaration (MND).

• Require the use of off-road diesel-powered construction equipment that meets or exceeds the California Air Resources Board (CARB) and U.S. Environmental Protection Agency (USEPA) Tier 4 Final off-road emissions standards for equipment rated at 50 horsepower or greater during construction of the Proposed Project. Such equipment will be outfitted with Best Available Control Technology (BACT) devices including a CARB certified Level 3 Diesel Particulate Filter (DPFs). Level 3 DPFs are capable of achieving at least 85 percent reduction in particulate matter emissions<sup>1</sup>. A list of CARB verified DPFs are available on the CARB website<sup>2</sup>.

To ensure that Tier 4 Final or cleaner construction equipment would be used during the Proposed Project's construction, South Coast AQMD staff recommends that the Lead Agency include this requirement in applicable bid documents, purchase orders, and contracts with construction contractor(s). Successful contractor(s) must demonstrate the ability to supply the compliant construction equipment for use prior to any ground disturbing and construction activities. A copy of each unit's certified tier specification, model year specification, and CARB or South Coast AQMD operating permit (if applicable) shall be available upon request at the time of mobilization of each applicable unit of equipment. Additionally, the Lead Agency should require periodic reporting and provision of written documents by construction contractor(s) to ensure compliance and conduct regular inspections to the maximum extent feasible to ensure compliance.

South Coast AQMD staff is available to work with the Lead Agency to address any air quality questions that may arise from this comment letter. Please contact Nicole Silva, Program Supervisor, at <a href="mailto:nsilva@aqmd.gov">nsilva@aqmd.gov</a> or (909) 396-3384, should you have any questions.

Sincerely,

Jo Kay Ghosh

Jo Kay Ghosh, Ph.D. Health Effects Officer and Director of Community Air Programs Planning, Rule Development, and Area Sources

<sup>1</sup> CARB. November 16-17, 2004. *Diesel Off-Road Equipment Measure – Workshop*. Page 17. Accessed at: <u>https://www.arb.ca.gov/msprog/ordiesel/presentations/nov16-04\_workshop.pdf</u>. <sup>2</sup> *Ibid*. Page 18. R-2-1 Cont.

R-2-2

**Response R-2-1:** Caltrans cannot require contractors to use off-road diesel-powered construction equipment that exceeds the California Air Resources Board (CARB) and U.S. Environmental Protection Agency (U.S. EPA) Tier 4 Final off-road emissions standards for equipment rated at 50 horsepower or greater. The Project will comply with construction standards adopted by the South Coast Air Quality Management District (SCAQMD) as well as Caltrans standardized procedures for minimizing air pollutants during construction. Caltrans is committed to the use of low-emission construction equipment and vehicles, which is anticipated to include equipment meeting the newer Tier 4 emission standards in the future. Additionally, AVM-EN-3 would ensure that efficiency measures are implemented during construction, as feasible, including committing to using newer, more energy-efficient equipment where feasible, and maintaining older construction equipment to keep in good working order.

**Response R-2-2:** Thank you for your comments. It is noted for the record that the EB SR-91/Atlantic Ave to Cherry Ave Lane Improvement Project is located adjacent to the Wilmington, Carson, West Long Beach (WCWLB) community. This project is approximately one-mile from the northwest limits of the WCWLB Boundary and is not a part of the Community Emission Reduction Plan (CERP) area. Although the Project is not subject to the implementation plan outlined in the CERP, the project includes fourteen air quality measures (PF-AQ-1 through PF-AQ-14) to reduce and minimize construction related air quality effects to the community. Additionally, AVM-EN-3 would ensure that efficiency measures are implemented during construction, as feasible, including committing to using newer, more energy-efficient equipment where feasible, and maintaining older construction equipment to keep in good working order. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for the complete list of measures.

As described in Response R-2-1, Caltrans cannot require contractors to use off-road dieselpowered construction equipment that exceeds the CARB and U.S. EPA Tier 4 Final off-road emissions standards for equipment rated at 50 horsepower or greater. The Project will comply with construction standards adopted by the SCAQMD as well as Caltrans standardized procedures for minimizing air pollutants during construction. Caltrans is committed to the use of low-emission construction equipment and vehicles, which is anticipated to include equipment meeting the newer Tier 4 emission standards in the future.

IP-1-1

## Comment Letter IP-1: Jaesen Alfassa, Interested Party, January 11, 2021

From: Jaesen Alfassa <jalfassa@gmail.com> Sent: Monday, January 11, 2021 1:07 PM To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov> Subject: Addressing Concerns Regarding Freeway Project EXTERNAL EMAIL. Links/attachments may not be safe. Ronald Kosinski, Deputy District Director, I am a homeowner in the Hamilton District one block away from the upcoming project. I have a few concerns as follows: Noise during and after construction Dust during construction Air quality during and after construction Increased Trash quantity drifting into the neighborhood Sound Walls Necessary Trees Structural damage to homes I want to make sure my community has a contact during the project to address any concerns or issues.

Jaesen Alfassa

**Response IP-1-1:** Your concerns are noted and are being considered. During construction, several measures will be in place to protect the community. A Public Awareness Campaign would be implemented as part of the Transportation Management Plan to address access impacts to the community including bicyclists and pedestrians. The Public Awareness Campaign would include procedures for notifying the public of road closures, noise, dust, and other construction-related activities and would include a telephone hotline for the public to report concerns. In addition, the Public Awareness Campaign would encourage motorists, pedestrians, and bicyclists to take alternate routes or travel outside road closure hours. A Construction Staging Plan would also be implemented to minimize hazards on the roadways for bicyclists and pedestrians, and may include temporary detour routes, wayfinding and warning signage, barriers, and protective fencing. Coordination with the community is important to us and issues that arise will be addressed in a timely manner.

**Noise during and after construction**: During construction, the contractor is obligated to keep noise at 85dBA up to 50ft. The first order of work would be to complete the retaining wall and sound barrier before the roadway work starts. Additionally, measures AVM-NOI-1 through AVM-NOI-3 would be implemented to reduce impacts related to noise and construction vibration during construction. Noise abatement is being considered at locations where the noise levels in the design-year are predicted to approach or exceed the noise abatement criterion at the specified land use (see Table 30 in Section 2.2.6 Noise and Vibration).

**Dust during construction:** Dust control measures will be implemented per SCAQMD fugitive dust which include street sweeping and water trucks (Measure PF-AQ-14 is a new measure that has been included as a project feature).

**Air Quality during and after construction:** The Project will comply with construction standards adopted by the South Coast Air Quality Management District (SCAQMD) as well as Caltrans standardized procedures for minimizing air pollutants during construction. The project includes fourteen air quality measures (PF-AQ-1 through PF-AQ-14) to reduce and minimize construction related air quality effects to the community.

**Increased trash drifting into the neighborhood:** The project will incorporate Caltrans' standardized procedures for minimizing trash debris during construction.

**Sound walls:** Along EB SR-91 and ramps within the project limits, existing sound wall heights vary from 10 feet to 14 feet along EB SR-91 and ramps within the project limits, and the proposed sound wall heights will vary from 12 feet to 14 feet. Sound wall heights were evaluated in 2-foot increments between the range of 8 feet and 16 feet for feasibility and reasonable allowances. For additional information describing how sound wall heights will be determined during final design, please refer to the Avoidance, Minimization, and/or Abatement Measures under Section 2.2.6 Noise and Vibration. Noise Studies and Caltrans Standards will determine required sound wall heights. The NADR recommends a height of 14ft for the noise barrier. The recommendation takes into account the Noise Study Report (NSR), geometric and safety standards.

**Necessary trees:** Measure AVM-VIS-2 would be implemented, and where feasible, drought tolerant trees, shrubs, and groundcover will be incorporated within the Project right of way to help improve the overall visual quality of this area. These landscape concepts include CO2 sequestering elements to help contain and reduce CO2 emissions.

**Structural Damage:** Driving Pile Method has been changed to CIDH pile method to reduce the vibration and noise impacts to the community. Measure AVM-NOI-3 would be implemented to include construction vibration reduction methods, where feasible, such as using cast-in-drilled-hole piles, sonic, or vibratory pile drivers to avoid the use of impact-type pile drivers near residences. Switching from pile driving to a CIDH method reduces potential vibration-related damage to homes because the CIDH method predrills the hole (with an auger) where the pile will then be cast in place. This procedure is less impactful and results in less vibration and noise than would result under a pile driving method. Therefore, there is less risk for damage to adjacent residential or commercial properties when using CIDH.

**Project Contact**: Continuing dialog about the status of the project can occur for this project via the Metro project website which will be updated by Metro Outreach with project-specific information as the project progress. Project website: <u>https://www.metro.net/projects/i-605-corridor-hot-spots-program/SR-91-early-action-projects/</u>.

# Comment Letter IP-2: Jeff Rowe, Nehyam Neighborhood Association, January 17, 2021

From: Jeff Rowe <jfrowe@rocketmail.com>
Sent: Wednesday, February 17, 2021 11:28 PM
To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>
Subject: Hamilton Loop project

EXTERNAL EMAIL. Links/attachments may not be safe.

Our neighborhood is immediately south of Hamilton Neighborhood and we applaud the dedicated and selfless effort that Hamilton has put into the project, which will benefit our entire area.

IP-2-1

Jeff Rowe Nehyam Neighborhood Association 562-343-3834

**Response IP-2-1:** Thank you for your comment. Your support for this project has been noted for the record.

## Comment Letter IP-3: Hilda Gaytan, Interested Party, January 18, 2021

From: Hilda Gaytan <hildagaytan@gmail.com>
Sent: Monday, January 18, 2021 3:33 PM
To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>
Cc: nospina@nrdc.org; Sylvia Betancourt <SBetancourt@memorialcare.org>; Puente LA<<puente.la.lbc@gmail.com>
Subject: 07-LA-91 (PM R11.8/13.2) Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement

EXTERNAL EMAIL. Links/attachments may not be safe.

This letter is a formal request for a public hearing on project file: 07-LA-91(PMR11.8/R13.2) Eastbound SR-91/Atlantic Ave to Cherry Ave Auxiliary Lane Improvement Project. With the understanding that this meeting will be held via an online platform, in order to have the opportunity for most impacted community members to attend, the preference for the public hearing is that it be scheduled for <u>Wednesday</u>, February 24 or Wednesday, March 10, 6-8pm. We also request Spanish interpretation for the public meeting, and Spanish translation of materials in advance.

Regards

Hilda Gaytan 6691 Myrtle Ave, Long Beach CA 90805 Phone # 562-980-6203 North Long Beach Resident

**Response IP-3-1:** Thank you for your request. In response to this request, a virtual public hearing was held on Thursday, February 18, 2021 from 6pm - 8pm. Details of the virtual public hearing were published in two newspapers, the Long Beach Press-Telegram (English) and La Opinion (Spanish) one week in advance. Notices with the hearing details were also mailed to residents in proximity to the Project Area (owners or occupants of properties to the south of East 68th Street, to the north of Artesia Boulevard, to the east of I-710, and to the west of the Union Pacific Railroad that runs between Cherry and Paramount Avenues).

The virtual public hearing was held through the Zoom meeting platform, with options to listen to the presentation in English and Spanish language translations. For those without internet access, a call-in number was also provided with an option for a dedicated Spanish call-in number.

IP-3-1

## Comment Letter IP-4: Nicole Rodriguez, Kinder Morgan, January 20, 2021

From: jiraappsupport@kindermorgan.com <jiraappsupport@kindermorgan.com> Sent: Wednesday, January 20, 2021 8:52 AM To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov> Cc: Nicole Rodriguez@kindermorgan.com Subject: [JIRA] Reject PPLINQSYS-1858

EXTERNAL EMAIL. Links/attachments may not be safe.

PPLINQSYS-1858 Received on 12/29/2020

Summary: FW: DOT proposal 91fwy Description:

Has this been submitted for review? Michael LaPeaux ROW Specialist – Damage Prevention Phone: (310) 930-3207 michael lapeaux@kindermoraan.com From: Wilson, Gary C - Long Beach, CA Sent: Friday, December 18, 2020 5:11 AM To: Lissy, Scott; LaPeaux, Michael; Balke, Brian R Subject: DOT proposal 91fwy Good morning, FYI, We received this paperwork at Watson today for proposed work for the 91 fwy from Atlantic ave to cherry ave. Thanks, Gary Wilson Operator 8 Watson station 562-233-7134 310-503-1649

Not enough information was provided for us to determine the exact location, scope, stage or schedule of the referenced project.Please resubmit your inquiry to <u>PipelineInquiries@kindermorgan.com</u> with the following information

1. Project Location Latitude & Longitude and/or Street Address including city & state. 2. Project Scope with applicable Drawing(s) and Specifications. 3. Project Stage (conceptual only, design review, construction pending) and Schedule (anticipated construction date or "unknown).

IP-4-1

Feel free to contact me with any further questions. Thanks

**Rodriguez**, Nicole Nicole\_Rodriguez@kindermorgan.com

C.C. Email To: Nicole Rodriguez@kindermorgan.com

**Response IP-4-1:** The project team obtained the copies of as-built drawings within the project limits in January 2019 from Kinder Morgan. The existing pipeline is located along Southbound Cherry Ave. The pipeline does not conflict with the project improvements; and it will be protected in place. The project team will submit copies of the project plans for review and comment.

## Comment Letter IP-5: Nicole Rodriguez, Kinder Morgan, January 20, 2021

From: PipelineInquiries <PipelineInquiries@kindermorgan.com>
Sent: Wednesday, January 20, 2021 8:51 AM
To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>
Subject: Eastbound SR-91/Atlantic Ave to Cherry Ave Auxiliary Lane Improvements Project
[PPLINQSYS-1858]

EXTERNAL EMAIL. Links/attachments may not be safe.

Your project has been assigned as PPLINQSYS-1858. Please include this project number in the subject line of all future correspondence.

Thank you for reaching out to Kinder Morgan's encroachment team for work near Kinder Morgan's refined petroleum product high pressure pipeline(s). KM looks forward to working with you to comply with all applicable state and federal safety regulations. The documents submitted (attached) do not provide enough information to determine scope and potential impacts to Kinder Morgan facilities for KM to complete an engineering review at this time.

Kinder Morgan requires that the encroaching third party provide the following:

• Please contact 811 to create a one call ticket and coordinate with the local Kinder Morgan damage prevention representative for line locating and depth of cover at the points of interest so you may complete a survey of your project area. Please note only Kinder Morgan representatives can probe Kinder Morgan pipelines. Kinder Morgan does not provide as-builts or alignment sheets.

IP-5-1

- Plans/drawings shall include Kinder Morgan facilities illustrated in plan view and profile view in relation to the proposed encroachments for review. It is the encroaching third party's responsibility for any potholing.
- Prior to any construction or activities that involve vehicles, construction equipment, or heavy

# **Appendix F. Comments on Draft Environmental Document**

materials crossing a pipeline, stress calculations need to be performed to ensure that no damage will be caused. Information required to complete stress calculations includes but is not limited to the make and model of all vehicles/construction equipment (including loaded weights), number of axles (for tracked vehicles, width of track shoe and length of the track on the ground), weight and dimensions of any heavy materials, and soil characteristics (if available).

• Please provide anticipated bid and construction schedules related to work over and in proximity to KM facilities.

I have attached Kinder Morgan's Developer Handbook which details guidance for working near or adjacent to pipelines. Please review this document for information relevant to your proposed project.

You will receive a follow up email from KM's inquiry ticket center requesting additional information for this encroachment review.

https://www.metro.net/projects/i-605-corridor-hot-spots-program/SR-91-early-action-projects/

Thanks, Nicole Rodriguez **KINDER MORGAN** Project Manager – Engineering Encroachments – Interstate Pipelines 713.420.6387

Response IP-5-1: Please refer to Response IP-4-1.

IP-5-1 Cont.

### Comment Letter IP-6: Henry Aguilar, Interested Party, January 28, 2021

**Henry Aguilar** 

6786 Lime Ave Long Beach, CA 90805 (323) 714-6351 geovanyaguilar10@yahoo.com

28th January, 2021

#### Mr. Ronald Kosinski

Deputy District Director Caltrans District 7, Division Of Environmental Planning 100 South Main Street, MS-16A Los Angeles , CA, 90012

Dear Mr. Kosinski,

I am a resident of North Long Beach, my address is mentioned above. I have been a homeowner since August, 2016. We decided to buy this house because the neighborhood is peaceful. We have not had problems in all.

In regards to the environmental document that is available online I already checked it. I know any project carries positives and negatives things. For example: Noise, Dust, Air quality, sounds wall, trash, loitering, traffic, structural damage to homes near to the construction. Some of these may be tolerable and are not within our ability to control 100%. I am not against the project but in case some structural damage happens to my house or my quality of life is put at risk due to construction your institution is going to be responsible to solve the issue.

Thank you for your time, and I look forward to hearing your response at your earliest convenience.

Sincerely,

Henry Aguilar.

IP-6-1

**Response IP-6-1:** During construction, the Project will incorporate measures that will minimize construction impacts to the community. Environmental and construction/engineering staff will ensure that the commitments contained in the Environmental Commitments Record (ECR) are fulfilled. Please refer to Appendix A - Avoidance, Minimization and/or Mitigation Summary for the ECR, particularly measure AVM-NOI-3. Measure AVM-NOI-3 would be implemented to include construction vibration reduction methods, where feasible, such as using cast-in-drilled-hole piles, sonic, or vibratory pile drivers to avoid the use of impact-type pile drivers near residences. Switching from pile driving to a CIDH method reduces potential vibration-related damage to homes because the CIDH method predrills the hole (with an auger) where the pile will then be cast in place. This procedure is less impactful and results in less vibration and noise than would result under a pile driving method. Therefore, there is less risk for damage to adjacent residential or commercial properties when using CIDH. Additionally, your support for the Build Alternative is noted for the record.

## Comment Letter IP-7: Jason Kerr, Pacific Pipeline System LLC, January 29, 2021



January, 29<sup>th</sup>, 2021

Mr. Ronald Kosinski Deputy District Director California Department of Transportation Division of Environmental Planning 100 South Main Street MS-16A Los Angeles, CA 9QO 12 Attn: SR-91/Atlantic to Cherry Project

RE: Comments for the Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Draft Initial Study / Environmental Assessment, Notice of Intent to Adopt a Mitigated Negative Declaration File: 07-LA-91 (PM RI I.8/RI3.2)

Hello Mr. Kosinski,

Pacific Pipeline System LLC (PPS) owns and operates Line 63 which is an integral part of our overall transportation system. Line 63 is primarily used to transfer crude oil received from producers throughout the United States into facilities located in the LA Basin where it is stored and later delivered to our customers as requested. This pipeline supports the supply at many major refineries in the LA Basin. Without the ability to move volumes through Line 63, PPS would be unable to import crude oil to the various refinery distribution systems resulting in adverse effects on the operation of many local refiners.

Below are specific comments to the Draft Initial Study & Environmental Assessment Report.

#### Comments:

PPS requests a "protect-in-place plan" for our 16" pipeline located in the City of Long . Beach, along Atlantic Ave traversing State Route 91. The EA needs to evaluate this IP-7-1 impact on the project. Figures depicting the approximate location of this line are provided as an attachment to this notice. Further details can be provided, as the scope and design of the proposed freeway modification project progresses. Access to our pipeline will need to accommodate ingress / egress during the entire project. PHMSA / State Fire Marshall regulations require access to active petroleum IP-7-2 pipelines for Emergency Response to abnormal operating conditions. Customer curtailments may occur if operational upsets or damages are incurred on Line 63 during construction activities related to this project. Customers could encounter demurrage fees due to such curtailments, as this pipeline segment affects timely IP-7-3 deliveries into local petroleum refinery operations. 5900 CHERRY AVENUE, LONG BEACH, CALIFORNIA 90805-4408 (562) 728-2800 FAX (562) 728-2860

## **Appendix F. Comments on Draft Environmental Document**

Mr. Ronald Kosinski California DOT January 29, 2021 Page 2 of 2

- PPS requests vibration studies and calculations be performed in accordance with ASME standards. This will determine if the integrity of our pipeline is affected by the proposed construction activity.
- Heavy equipment may be required for this project. Weight bearing calculations need to . be performed to ensure equipment crossing or situated over our pipeline does not affect the pipes integrity.

IP-7-4

IP-7-5

If you need further assistance or require additional clarification please contact Mr. Bill Senner at 562-728-2056.

Sincerely,

Jason Kerr Manager, Health Safety & Environmental Western Division Pacific Pipeline System LLC

Comments to SR91 Initial Study-EA 1-25-21

# Appendix F. Comments on Draft Environmental Document

**Response IP-7-1:** The project team obtained the copies of as-built drawings within the project limits in December 2018 from Plains All American. The existing pipeline is located along Northbound Atlantic Ave. The pipeline does not conflict with the project improvements; and it will be protected in place. The project team will submit copies of the project plans for review and comment.

**Response IP-7-2:** There are no manholes within the project limits. Therefore, the project improvements will not impact access to active petroleum pipelines.

Response IP-7-3: The project improvements will not impact to petroleum pipelines.

**Response IP-7-4:** The project improvements on Atlantic Ave include bridge abutments and median columns. The construction activity would be staged more than 25 feet from the existing pipeline. Heavy equipment is not anticipated to be in operation or resting over the pipeline. Coordination will take place with Pacific Pipeline System LLC during final design to mitigate any potential conflicts or impacts and coordination of mitigation measures, if needed.

**Response IP-7-5:** The project improvements on Atlantic Ave include bridge abutments and median columns. The construction activity would be staged more than 25 feet from the existing pipeline. Heavy equipment is not anticipated to be in operation or resting over the pipeline.

## Comment Letter IP-8: Esteban McKenzie, Interested Party, January 30, 2021

From: Esteban McKenzie <estebanmck@gmail.com>
Sent: Saturday, January 30, 2021 2:11 PM
To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>
Subject: Comment against 91 widening

EXTERNAL EMAIL. Links/attachments may not be safe.

ain to induce demand,

IP-8-1

increasing the pollution burden on nearby communities.

The much touted reductions of congestion and promised drop in emissions has never materialized despite DOT promises and assurances that THIS time is different. There is no objective evidence to support these claims and ample to refute.

NO to freeway widening. NO BUILD.

if you want to reduce congestion, spend the money incentivizing less driving!

**Response IP-8-1:** Thank you for your comment. Your support for the No Build Alternative has been noted for the record.

## Comment Letter IP-9: Renette Mazza, Interested Party, February 11, 2021

From: Renette Mazza <RMazza@grafairfreight.com>
Sent: Thursday, February 11, 2021 2:11 PM
To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>
Cc: Hamilton Neighborhood Association <hamilton.neighborhood@gmail.com>
Subject: EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project/Hamilton Loop

EXTERNAL EMAIL. Links/attachments may not be safe.

Hello DOT,

I hope this message finds you all well.

I am reaching out to share our support for EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project at a virtual public meeting 2/18/21 6pm to 8pm.

We, The Hamilton Neighborhood Residents & Hamilton Neighborhood Association Board (Jerry Fink, Linda Campbell, Renette Mazza) have worked very hard for many years to realize our vision for the completion of The Hamilton Loop.

The meeting date & time are as follows:

#### Virtual Hearing

*Virtual Public Hearing for Eastbound SR-91 Atlantic Ave to Cherry Ave Auxiliary Lane Improvements Draft IS/EA Thursday, February 18, 2021 6:00 p.m. to 8:00 p.m.* 

Hilda Gaytan has started an aggressive campaign against the EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project & Hamilton Loop, historically she has always been against this open space plan, her first argument was we can't do that, it was someone else's idea. Then she resorted to; the park is too close to the freeway and we should not leave our homes to be near it, although the proximity of our homes are literally feet from where the park would be, further she claims widening the freeway would cause more pollution even though her argument against the drive thru concept recently was that idling cars at a drive thru would cause too much pollution in our neighborhood, studies have shown the widening would help with the bottleneck that is currently happening, alleviating idling exhaust. Then recently Hilda attending a public meeting at city council to claim she supported it 100% and it was her idea all along. The last two weeks she is going door to door with a petition against the Hamilton Loop build. I asked her for a copy of the petition language, but she denied that she is doing this.

I asked Hilda why she was campaigning against a project that would benefit the community, she replied via text messages to me:

"My goal is not to stop the project I understand it may happen regardless but if we participate the community wins, more education, participation and eventually more engagement for things. Is not personal, is not about the project, is only about community engagement, for me is the opportunity to learn and see how the system works. The learning is for my own experience."

I am a bit upset at her statement in that we are now all jumping through her hoops because she (personally) wants to learn how the system works? Regardless of how much she wants to learn, we feel the upside of the freeway expansion in addition to the Hamilton loop project summaries are is as follows.

#### Regarding the freeway expansion itself:

No one wants a freeway expansion, but if you look at the facts and the entire picture, the need is difficult to dispute.

Currently the freeway infrastructure is old, dilapidated and out of date compared to current standards of building. The revision/build are planned to included much needed pollution mitigation, larger sound wall, built in structure to help with vibration and follow up-to-date earthquake building infrastructure guidelines. The addition to an auxiliary lane on the 67th side (eastbound 91) will serve to alleviate traffic idling for hours in the afternoon commute helping with the pollution mitigation in addition to resolving a bottleneck that is known for accidents while trying to transition off the freeway exit at 91/Cherry into our community. Caltrans & Metro has been working together with the City of Long Beach/Parks & Recreation to incorporate the open space (The Hamilton Loop) in the build that will benefit all in North Long Beach. Caltrans has been very cooperative in revising the engineering of their project to give The Hamilton Loop more space while incorporate both into the build simultaneously.

# Now, I would like to share information about the right of ways that are on both sides of the 91 E/W bound freeway within the Hamilton Neighborhood. This space is where it is intended for the Hamilton Loop to occupy.

Currently, Caltrans participates in 0 (Yes Zero) maintenance of this entire area. If we want something done, The Hamilton Neighborhood Association must do it ourselves. The fencing is over 20 years old with ugly patched repairs here and there. There is graffitti, overgrown vegetation & weeds, dead trees from lack of water, dumped trash and homeless houses, yes I said houses, actual built structures. We do what we can, but do not have the support of Caltrans to help with the homeless trash, hazardous human waste & houses, the City of Long Beach has no jurisdiction within the Caltrans ROW property. Our Association with community help have developed and maintained mini parks within the Caltrans ROW space. Just that little glimmer of hope and beautification has heightened our community in ways we could not have imagined. Folks consistently use the developed, beautified space to sit & chat, play musical instruments, play board games & cards, crafting, drinking coffee ect... the space around the ROW is constantly used by folks walking their dogs, walking with their families & strollers, biking, jogging ect... People have taken pride in their own houses, yards & spaces. So far our labor of love has been an amazing transformation within North Long Beach. Our vision is that once this ROW space is transformed into open space and maintained by LBC Parks & Recreation, it will be used, loved and appreciated by all that live and visit our community. The space will be transformed from the 91 dilapidated eye sore in a beautiful tree lined active/passive space that will benefit all for generations to come. Further the space will be maintained properly in all aspects.

And last but certainly not least, when Jerry Fink and I Renette Mazza first envisioned this open space in 2015 and the outreach for the open space plan was championed by D9, LBC/City Fabric/Parks & Recreation thousands of people showed up in support of The

IP-9-2

IP-9-1

Hamilton Loop Project. Multiple outreach sessions were held over the course of several years. The collaboration between several government agencies, elected officials, city departments, neighborhood residents, The Hamilton Neighborhood Association and the support of D9 under Vice Mayor Rex Richardson leadership has been an inspiring labor of love on all fronts.

IP-9-2 (cont.)

\*\*\*Thank you for reading our statement\*\*\*

Warmest Regards,

Renette Mazza Director of Sales & Marketing Graf Air Freight and Logistics Services Litigation Logistics & Support Concert & Event Logistics, Trade Shows Air, Ground, Ocean, Domestic and International www.grafairfreight.com Cell: 253-606-4013 24 Hour Operations 800-255-6883 LAX@grafairfreight.com SFOQUOTES@grafairfreight.com **Response IP-9-1:** Thank you for your comment. Your support for this project and your preference for the Build Alternative and Hamilton Loop improvements has been included in the project record.

**Response IP-9-2:** Your preference for Build Alternative based on visual aesthetics has been included in the Project record.

## Comment Letter IP-10: Hilda Gaytan, Interested Party, February 17, 2021

#### RE: EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project

#### Initial Study and Projection in the Short and Long Term

Long-term operational emissions of criteria air pollutants associated with the Build Alternative would be associated with the operation of motor vehicles.

In comparison to No Build Alternative year 2024 conditions, the proposed Build Alternative is predicted to increase emissions by approximately three percent for PM2.5, PM10, NOx and ROG with a two percent increase for CO.

In comparison to No Build Alternative year 2045 conditions, the proposed Build Alternative is predicted to increase emissions approximately three percent for PM2.5, PM10 and NOX with two percent for CO and ROG. Page 122 \*INITIAL STUDY/ENVIRONMENTAL ASSESSMENT ANNOTATED OUTLINE (metro.net)

#### INITIAL STUDY and the effects from CONSTRUCTION

During construction, short-term degradation of air quality is expected from the release of particulate emissions (airborne dust) generated by excavation, grading, hauling, and other activities related to construction. Emissions from construction equipment powered by gasoline and diesel engines are also anticipated and would include CO, NOX, volatile organic compounds (VOCs), directly emitted PM10 and PM2.5, and toxic air contaminants (TACs) such as diesel exhaust particulate matter. **Construction activities** are expected to increase traffic congestion in the area, resulting in increases in emissions from traffic during the delays. **These emissions would be temporary and limited to the immediate area surrounding the construction site**. Construction activities will not last for more than 5 years...Most of the construction impacts to air quality are short-term in duration and, therefore, will not result in long-term adverse conditions. *page 126-127* 

Construction of the proposed Build Alternative would generate maximum daily emissions of approximately 5.14 pounds per day of reactive organic gases, 45.64 pounds per day of carbon monoxide, 53.91 pounds per day of oxides of nitrogen, 9.30 pounds per day of PM10, and 3.52 pounds per day of PM2.5. Total emissions generated during construction would be 0.93 tons of reactive organic gases, 8.74 tons of carbon monoxide, 9.41 tons of oxides of nitrogen, 1.98 tons of PM10, and 0.70 tons of PM2.5. *page* 127 Click here To read the initial project study

#### THE CONCERN:

#### Not enough protection to the health of our families during construction.

According to the US EPA exposure to such particles can affect both the lungs and the heart of an individual, especially in older adults and children. It also increases the probabilities to die from COVID 19. **Considering the already environmental burden and the health problems** in the community. It is imperative to protect the families during the two year of construction. **These two years can be the difference between the life and death for some senior residents in the area and between the healthy development for our children's respiratory system.** 

IP-10-2

Although the study has a long list of measures for containment during construction. I could not find any place in the study that recognizes our community as vulnerable and suffering from a myriad of health issues and inequities related to the environment in which we live. Therefore, the study does not have any specifics to protect the health of our families.

We request Metro/Caltrans to implement the following measures during construction, and in the long term.

# Appendix F. Comments on Draft Environmental Document

| <ul> <li>Use high temporary retaining wall around the construction area to minimize the dust, noise, and pollution in the area.</li> <li>Provide commercial air purifiers to the families living within 500 ft of the construction area.</li> <li>Provide grants for upgrading windows or adding soundproof window inserts.</li> <li>Providing the temporary retaining wall will provide the families living adjacent to the freeway peace of mind and the opportunity to spend some time outside their homes during the days with high</li> </ul> | IP-10-2<br>(cont.) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| temperatures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | •                  |
| Lack of community outreach and education about the project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ľ                  |
| Most of my neighbors do not have idea of what this project is about yet, they are invited to talk and                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |
| express their opinion about the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |
| Metro budgeted \$400,000 for community outreach and has done nothing to provide the opportunity to                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |
| my community to understand the project and provide educated input to the proposed project.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IP-10-3            |
| This behavior does not promote trust in the government or its agencies and causes fear and stress in the                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                  |
| life of the families that live adjacent to the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |
| If CalTrans/Metro and the government continue moving their projects without inviting the community t                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                  |
| be part of the conversation, it will be difficult to promote equity and meet the goal of removing                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2007               |
| systematic racism from our society.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                  |

Sincerely

Hilda Gaytan

**Response IP-10-1:** During construction, several measures will be in place to minimize impact to the community. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for the complete list of measures. These measures include, but are not limited to: Caltrans being committed to the use of low-emission construction equipment and vehicles, which is anticipated to include equipment meeting the newer Tier 4 emission standards in the future (see also AVM-EN-4); the project includes fourteen air quality measures (PF-AQ-1 through PF-AQ-14) to reduce and minimize construction related air quality effects to the community and include implementation of dust control measures per SCAQMD fugitive dust; and the Project will include CO2 sequestering landscape concepts to help contain/reduce CO2 emissions (AVM-VIS-2).

Construction would be completed in three stages, with Stage 1 further separated into four distinct phases. A Construction Staging Plan will be developed in the next phase of the project (design phase) to detail efforts to modify construction staging to expedite construction and minimize exposure time to adjacent residents (PF-COM-3).

**Response IP-10-2:** Regarding community health, State, county and municipal agencies' Public Health Departments may be the more appropriate agencies for health impact proponents to raise their broader community-wide health issues in a more programmatic, broad regional scale health impact analysis rather than a project-level analysis. For example, a city or county general plan or a public health agency plan on a broader scale could address the kinds of important health issues that the public has expressed concerns about, including access to goods and services, access to parks, annoyance ("a feeling of displeasure associated with any agent or condition known or believed by an individual or a group to be adversely affecting them"), asthma, autism, birth defects, birth outcomes, bronchitis, cardiovascular disease, diabetes, educational performance, employment and income, housing, hypertension, leukemia, lymphoma, myocardial infarction, neurological problems, sinusitis, social networks, stress. Also, a Final Transportation Management Plan (TMP) will be developed in detail during final design. Construction staging and detour routes will be determined during final design. Additionally, your support for the No Build Alternative is noted for the record.

Thank you for your suggestions. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for a list of measures that will minimize construction impacts to the community. The Project will comply with ECR noise and construction vibration measures during construction which include AVM-NOI-1 to AVM-NOI-3, and ECR air quality measures PF-AQ-1 to PF-AQ-14. The Project Team evaluated the feasibility of a temporary sound wall, including the anticipated height an effective temporary sound wall would need to be based on the topography adjacent to the EB SR-91 mainline and the cost to construct a temporary sound wall. Due to the existing conditions, with 80% of the project improvements occurring on a slope above the adjacent residents, a temporary sound wall would need to be at least 32-feet tall when placed at street level on East 67th Street to be effective. The temporary 32-foot wall was determined not advisable due to safety (overall height of the wall) and the construction methods needed to install the temporary wall, including the anticipated construction noise from installing the wall. In addition to the temporary sound wall. Caltrans and Metro has reviewed the listed suggestions and based on the feasibility and reasonableness of the requests, developed a list of additional measures that will minimize construction impacts to the community.

A response to the request for additional measures has been responded to in response IP-11-6.

**Response IP-10-3:** Thank you for your feedback. Please see response to comment L-1-1 which discusses outreach efforts conducted to date. Additionally, under PF-COM-2, a Public Awareness Campaign would be implemented as part of the Transportation Management Plan to address access impacts to the community, including bicyclists and pedestrians. The Public Awareness Campaign would include procedures for notifying the public of road closures, noise, dust, and other construction-related activities and would include a telephone hotline for the public to report concerns.

Continuing dialog about the status of this project can occur via the Metro project website which will be updated by Metro Outreach with project-specific information as the project progress. Project website: <u>https://www.metro.net/projects/i-605-corridor-hot-spots-program/SR-91-early-action-projects/</u>.

## Comment Letter IP-11: Kirk Davis, Interested Party, February 17, 2021

#### RE: EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project

| There may be over a hundred reasons why this project should be built, but only one reason why it should not, the health and welfare of an already overburdened community. Why do I feel the health of my family and our "inalienable right to life, liberty and the pursuit of happiness" is threatened? I live across the street from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IP-11-1 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| where the freeway will come 22 ft closer to my home, only 84 ft from my property<br>line <u>EB-SR91-Atlantic-to-Cherry-Draft-PR.pdf (metro.net</u> ) page 7 attachment H<br>Myrtle UC and Myrtle Ave UC Planning Study page 115 of PDF. My wife and I are<br>happy to live in our home and know the current risks of our environment, but to see<br>what is planned to increase that risk for a marginally predicted ease in traffic and<br>rise in neighborhood pollution is deplorable. In addition to the pollution, I cannot<br>open my windows in the Summer without having noise and black dust enter my<br>home. I cannot hold a normal conversation while sitting or working in my back yard<br>because of the constant freeway noise.                                                                                                        | IP-11-2 |
| My other concerns deal with how overall community health is not a consideration in<br>the denial or approval of the project. With equity becoming a driving force in policy<br>and decision-making, this project should be viewed through the many lenses that<br>pertain to the diversity, health, and environment of this community. Though the<br>project reports try to dismiss having to follow environmental justice policies based<br>on the income of the area, the US EPA states. "Environmental justice is the fair<br>treatment and meaningful involvement of all people regardless of race, color,<br>national origin, or income, with respect to the development, implementation, and<br>enforcement of environmental laws, regulations, and policies."                                                                                  | IP-11-3 |
| These neighborhoods, inside 90805 zip code, are health impacted according to the LBDHHS 2019 Community Health Assessment. <u>City of Long Beach department of health and Human Services</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| It is a community with some of the highest unhealthful air quality in the state and nation, the 2 <sup>nd</sup> lowest life expectancy and 2 <sup>nd</sup> highest rates of hospitalization for children with asthma in all the Long Beach zip codes. The neighborhood has the highest risk for cancer according to the AQMD Mates IV estimated risks map <u>Mates</u> <u>IV Estimated Risk (arcgis.com)</u> . Adding more vehicles and pollution to the area, along with the impact of two years of construction, will be a detriment to the overall health, well-being, and way of life to residents of the neighboring homes and beyond. The overall impact of pollution is never clearly shown for the immediate area because it is lessened by using regional indicators and prediction programs, and not direct data from or for the work site. | IP-11-4 |
| The NO BUILD option foresees no significant change to what already exists. The BUILD option projects vehicle and pollution numbers are going to steadily increase, not decrease, and the two years of construction will also contribute to pollution and disruption in the neighborhood. If the project is approved, what protections will be provided for the health and well being of the community during construction and after completion?                                                                                                                                                                                                                                                                                                                                                                                                       | IP-11-5 |

## **Appendix F. Comments on Draft Environmental Document**

An initial request if the project is approved is for Caltrans/Metro to provide:

1. Grants for new windows and/or soundproofing window inserts for freeway adjacent homes to help cut down on the noise

2. Installation of tall, temporary barriers (as used on other projects) to offer a level of protection for the freeway adjacent homes to help reduce freeway/construction noise and dust

3. Commercial grade portable air purifiers for the neighboring homes

Regards,

Kirk Davis 6691 Myrtle Ave Long Beach, CA 90805 562-235-1402 IP-11-6

**Response IP-11-1:** As stated at the hearing, your concerns are noted and are being considered. Your support for the No Build Alternative has also been noted for the record. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for the complete list of measures, which include measures that would be in place during construction to minimize impact to the community.

**Response IP-11-2:** Please see Section 2.2.5 Air Quality, which is based on the Air Quality Report and Traffic Operations Analysis Report prepared for this project. For project-level conformity, the Project does not cause or contribute to any new localized CO, PM2.5, and/or PM10 violations, or delay timely attainment of any National Ambient Air Quality Standards or any required interim emission reductions. The project was also reviewed by SCAG's Transportation Conformity Working Group and was determined to not be a Project of Air Quality Concern (POAQC) for PM10 and/or PM2.5 because it does not meet the definition of a POAQC as defined in U.S. EPA's Transportation Conformity Guidance. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for the complete list of measures, which include measures that would be in place during construction to minimize impact to the community, such as fourteen air quality measures.

As part of the NSR and NADR, detailed modeling analysis was conducted for two barriers located at the edge of the shoulder along EB SR-91. A 14 foot sound wall BA-4, along EB SR-91, was considered to be reasonable and feasible. The barrier would be constructed on the edge of the freeway from approximately the edge of the existing retaining wall at the corner of 67th Street and Millmark Avenue on the Atlantic Avenue on-ramp to the vicinity of the existing sound wall on the Cherry Avenue off-ramp. Barrier BA-4 would achieve the minimum noise reduction to be considered acoustically feasible and would replace existing noise barrier, EXB-4. This noise barrier would also meet the Caltrans design goal of 7 dB noise reduction at one or more benefited receivers for all evaluated wall heights, with a length of approximately 4,864 feet. Calculations based on preliminary design data show that a 14-foot barrier would reduce noise levels by 5 to 13 dBA, and a 16-foot barrier would reduce noise levels by 5 to 14 dBA. Implementation of BA-4 would result in noise reductions at each of the locations that are predicted to see an increase in noise that approach or exceed the NAC; the predicted noise levels with BA-4 would either be reduced to the same decibel as existing conditions or lower than existing conditions. Please refer to Section 2.2.6, Figure 15, Noise and Vibration of the environmental document.

**Response IP-11-3:** Regarding community health, State, county and municipal agencies' Public Health Departments may be the more appropriate agencies for health impact proponents to raise their broader community-wide health issues in a more programmatic, broad regional scale health impact analysis rather than a project-level analysis. For example, a city or county general plan or a public health agency plan on a broader scale could address the kinds of important health issues that the public has expressed concerns about, including access to goods and services, access to parks, annoyance ("a feeling of displeasure associated with any agent or condition known or believed by an individual or a group to be adversely affecting them"), asthma, autism, birth defects, birth outcomes, bronchitis, cardiovascular disease, diabetes, educational performance, employment and income, housing, hypertension, leukemia, lymphoma, myocardial infarction, neurological problems, sinusitis, social networks, stress.

Community impacts were considered and included as part of the IS/EA for this project. A Community Impact Assessment (CIA) was prepared for the Project in August 2020 to assess the potential impacts of a proposed transportation project on communities and neighborhoods,

and to achieve context sensitive solutions in the design of the project. Context sensitive solutions refers to the practice of achieving environmental sensitivity by means of incorporating consideration of social, economic, and environmental effects throughout the project development process. The findings from the CIA helped support the conclusions provided in Section 2.1.1 Environmental Justice, Section 2.1.1 Utilities/Emergency Services, and 2.1.3 Traffic and Transportation/Pedestrian and Bicycle Facilities of the IS/EA. Additionally, the Project will comply with construction standards adopted by the South Coast Air Quality Management District (SCAQMD) as well as Caltrans standardized procedures for minimizing air pollutants during construction (see Project Features PF-AQ-1 through PF-AQ-14 in Appendix A - Avoidance, Minimization, and/or Mitigation Summary).

All projects involving a federal action (funding, permit, or land) must comply with Executive Order (EO) 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations. Section 2.1.1 Environmental Justice has been updated to include a more robust discussion on the project's potential to result in a disproportionate effect on Environmental Justice populations (i.e., minority and/or low-income residents).

**Response IP-11-4:** The Project is needed to address operational safety due to the short weaving distance along Eastbound State Route 91 between the closely spaced interchanges of the I-710 to Eastbound State Route 91 connectors, Atlantic Avenue, and Cherry Avenue which impacts mainline congestion. The purpose of the project is to improve operations and safety; and reduce congestion. Higher CO2 emissions are typically associated with heavy congestion. The benefits of the project include improved operations, reduced congestion, increased safety, CO2 sequestering landscape concepts, and infrastructure elements to facilitate the implementation of the Hamilton Loop Project, should that project move forward, which is anticipated to bring additional benefits to the community.

The project would include operational improvements to SR-91 and would not result in significant increases in overall traffic or truck volumes. Refer to Table 22 Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes-Opening Year 2024 and Table 24 Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes-Design Year 2045. A review of average daily traffic and truck volumes for the No Build, Opening Year (2024) and Design Year (2045) show that the project would not result in significant increases in overall traffic or truck volumes. Average daily traffic and truck volumes for Opening Year (2024) compared to the No Build Condition show an increase in truck traffic from 0% to 3% for all project segments. For Design Year (2045) the change from No Build Conditions shows a similar increase in truck traffic from 0% to 3% for all project segments. The proposed Build Alternative would not result in a significant increase in truck volumes. Additionally, SCAG's Transportation Conformity Working Group reviewed the project on September 22, 2020 and determined that the project is not considered a project of air quality concern (POAQC) for particulate matter because it does not meet the definition of a POAQC as defined in U.S. EPA's Transportation Conformity Guidance.

During construction, several measures will be in place to minimize impact to the community. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for the complete list of measures. These measures include, but are not limited to: Caltrans being committed to the use of low-emission construction equipment and vehicles, which is anticipated to include equipment meeting the newer Tier 4 emission standards in the future (see also AVM-EN-4); the project includes fourteen air quality measures (PF-AQ-1 through PF-AQ-14) to reduce and minimize construction related air quality effects to the community and include implementation of dust control measures per SCAQMD fugitive dust; and the Project will include CO2 sequestering landscape concepts to help contain/reduce CO2 emissions (AVM-VIS-2).

Regarding community health, see Response IP-11-3. Also, a Final Transportation Management Plan (TMP) will be developed in detail during final design. Construction staging and detour routes will be determined during final design.

**Response IP-11-5:** As discussed in Comment Response IP-11-4, a review of average daily traffic and truck volumes for the No Build, Opening Year (2024) and Design Year (2045) show that the project would not result in significant increases in overall traffic or truck volumes, and the proposed Build Alternative would not result in a significant increase in truck volumes.

The Build Alternative was identified as the Preferred Alternative (see Section 1.5.2), and the list of measures included in the Environmental Commitments Record would be implemented please refer to Appendix A - Avoidance, Minimization and/or Mitigation Summary). Project avoidance, minimization, and /or mitigation measures include, but are not limited to Air Quality, Noise, Hazardous Waste/Materials measures.

**Response IP-11-6:** Thank you for your suggestions. Caltrans and Metro has reviewed these suggestions and based on the feasibility and reasonableness of the requests, developed a list of additional measures that will minimize construction impacts to the community. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for an updated list of measures. The additional measures include but are not limited to:

- Modify construction staging to expedite construction and minimize exposure time to adjacent residents (Measure PF-COM-3 has been updated to include this additional language).
- Measure PF-COM-4 has been added, which states that during Final Design, Caltrans and Metro will consider and incorporate measures that support equity, environmental justice and community values by minimizing construction impacts to those who may be directly impacted.
- Use of equipment and tools with minimal noise/vibration (Measure AVM-NOI-2 was updated to include this additional language).
- During final design, use of rubberized asphalt on the re-constructed portion of the Atlantic Avenue on-ramp and Cherry Avenue off-ramp would be explored to as a long-term noise reduction method (AVM-NOI-4 is a new measure that has been included as an Avoidance and Minimization measure).
- Construction activity sources are required to implement best available control measures for the control of fugitive dust in order to comply with South Coast Air Quality Management District (SCAQMD) Rule 403 (Measure PF-AQ-14 is a new measure that has been included as a project feature).

Please note, the Project Team evaluated the feasibility of a temporary sound wall, including the anticipated height an effective temporary sound wall would need to be based on the topography adjacent to the EB SR-91 mainline and the cost to construct a temporary sound wall. Due to the existing conditions, with 80% of the project improvements occurring on a slope above the adjacent residents, a temporary sound wall would need to be at least 32-feet tall when placed at street level on East 67th Street to be effective. The temporary 32-foot wall was determined not advisable due to safety (overall height of the wall) and the construction methods needed to install the temporary wall, including the anticipated construction noise from installing the wall.

## Comment Letter IP-12: Renette Mazza, Interested Party, February 19, 2021

 From: Renette Mazza <RMazza@grafairfreight.com>

 Sent: Friday, February 19, 2021 10:04 AM

 To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>

 Cc: Hamilton Neighborhood Association <hamilton.neighborhood@gmail.com>

 Subject: Re: EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project/Hamilton Loop

 EXTERNAL EMAIL. Links/attachments may not be safe.

 Hello DOT,

 I hope this message finds you well.

 I attended the public hearing last night and want to share my concern about the legitimacy of public comment put into record.

 At the public hearing there was a staged element that included fake residents with fabricated testimonials.

 Is it possible for folks to prove the legitimacy of statements entered into public record and show proof of where they live? The ability in gaming the system was evident with staged

elements and to me not only deplorable it also made me question this entire process.

#### Warmest Regards,

Renette Mazza Director of Sales & Marketing Graf Air Freight and Logistics Services Litigation Logistics & Support Concert & Event Logistics, Trade Shows Air, Ground, Ocean, Domestic and International www.grafairfreight.com Cell: 253-606-4013 24 Hour Operations 800-255-6883 LAX@grafairfreight.com SFOQUOTES@grafairfreight.com 1512165039439\_Graf

**Response IP-12-1:** Thank you for your feedback. The public hearing was an opportunity to receive comments and concerns about the project from any member of the public. Though we encouraged participants to state their name and address for the record, it was not required.

IP-13-1

IP-13-2

## Comment Letter IP-13: Jaesen Alfassa, Interested Party, February 20, 2021

 From: Jaesen Alfassa <jalfassa@gmail.com>

 Sent: Saturday, February 20, 2021 4:14 PM

 To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>

 Subject: 91 Fwy and Hamilton Loop

 EXTERNAL EMAIL. Links/attachments may not be safe.

 To whom it may concern,

 I have voiced my concerns in a previous email and as the project moves forward all I ask is the community has proper contact information, to voice any concerns or issues moving forward.

 I received correspondence with contact information via email and mail. I ask that the contact information given stays available and up to date during the project. Thank You.

 As long as the community and I are able to contact Metro and CalTrans regarding any project issues

As long as the community and fare able to contact Metro and Califrans regarding any project issues that arise, I am happy to see the project move forward. The 91 FWY does bottleneck adjacent to my community and I am all for an auxiliary lane helping traffic flow especially with all the big rigs passing through everyday. I am especially happy to see the Hamilton Loop project come to fruition. The update to a currently dilapidated and long ignored section of the Fwy is overdue. Caltrans has recently started trimming the overgrowth and dead trees and brush that have been a fire hazard for years.

I take responsibility for buying a home next to the FWY, along with any construction updates that comes with it. No one is forcing me to live here I choose to.

I was alarmed by some of the comments at the recent virtual public meeting. It seems some of my neighbors although I'm glad to see community engagement; they seem to be vilifying the auxiliary lane and turning into a big bad monster. Health issues are rarely attributed to one thing
and usually are attributed to a contribution of multiple factors over many years. It is my hope Metro and Caltrans can use a more rational train of thought, while taking in all the concerns in the environmental report. I'm sure the Community, Metro, and Caltrans can work together and see the project come to fruition.

IP-13-2 (cont.)

I would like to see the Auxiliary Lane and the Hamilton Loop project move forward.

Jaesen Alfassa

**Response IP-13-1:** Thank you for your feedback. Please see response to comment L-1-1 which discusses outreach efforts conducted to date. Additionally, under PF-COM-2, a Public Awareness Campaign would be implemented as part of the Transportation Management Plan to address access impacts to the community, including bicyclists and pedestrians. The Public Awareness Campaign would include procedures for notifying the public of road closures, noise, dust, and other construction-related activities and would include a telephone hotline for the public to report concerns.

Continuing dialog about the status of this project can occur via the Metro project website which will be updated by Metro Outreach with project-specific information as the project progress. Project website: <u>https://www.metro.net/projects/i-605-corridor-hot-spots-program/SR-91-early-action-projects/</u>.

**Response IP-13-2:** Thank you for your feedback. Your support for the Build Alternative is noted for the record. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for the complete list of measures, which include measures that would be in place during construction to minimize impact to the community. Under AVM-NOI-2, Property owners and occupants located within 200 feet of the Project boundary shall be sent a notice, at least 15 days prior to commencement of construction of each phase, regarding the construction schedule of the proposed project. A sign, legible at 50 feet shall also be posted at the Project construction site. All notices and signs shall be reviewed and approved by Caltrans, prior to mailing or posting and shall indicate the dates and duration of construction activities, as well as provide a contact name and a telephone number where residents can inquire about the construction process and register complaints.

Additionally, please see response to comment IP-13-1 which refers to additional efforts the public will be engaged throughout the project.

# Comment Letter IP-14: Natalia Ospina, Natural Resources Defense Council, March 1, 2021



Ronald Kosinski Deputy District Director Caltrans District 7 Division of Environmental Planning 100 South Main Street, MS-16A Los Angeles, CA 90012 D07.91AtlanticToCherry@dot.ca.gov

## Re: Environmental Analysis under CEQA and NEPA for the Proposed SR-91 Atlantic to Cherry Widening

Dear Mr. Kosinski:

The undersigned organizations and stakeholders have concerns with California Department of Transportation (Caltrans) and the Los Angeles County Metropolitan Transportation Authority's (Metro) draft Initial Study/Mitigated Negative Declaration/Environmental Assessment/Finding of No Significant Impact (IS/EA) for the proposed Eastbound SR-91 Atlantic Ave. to Cherry Ave. lane widening under the California Environmental Quality Act (CEQA) and the National Environmental Protection Act (NEPA).

Caltrans and Metro have failed to meaningfully engage the communities that would be impacted by this expansion project and in doing so fall short of achieving an essential goal of both CEQA and NEPA: to allow the public the provide informed input on a proposed project. Moreover, the analysis contained in the IS/EA does not assess the full and cumulative impacts from widening the freeway. In particular, the IS/EA fails to consider the harm this project will have on environmental justice communities, including those that already live across the street from a freeway heavily trafficked by diesel trucks. Given the existing regional and local impacts on surrounding communities, it is especially important that the environmental documents under

Letter Re: Inadequate IS/EA for SR-91 Widening March 1, 2021 Page 2 of 12

CEQA and NEPA contain the necessary analysis to allow the public and decisionmakers to understand how the widening may increase harms.

When discussing this project, it is crucial to analyze the health impacts that the SR-91 expansion will have on the surrounding community. Adding an additional lane could lead to an increase in traffic in an area with already high levels of existing air pollution. North Long Beach is in the  $92^{nd}$  percentile of pollution burden percentile when compared to other census tracks using CalEnviroScreen 4.0. Researchers have found that air pollution can make asthma symptoms worse and trigger asthma episodes. In the 2019 Long Beach Community Health Assessment, North Long Beach (zip code 90805) was identified as having the city's second highest number of pediatric hospitalizations due to asthma.<sup>1</sup>

Overwhelming scientific evidence has linked diesel particulate matter to a variety of respiratory health effects. Findings from a 10-year long USC Children's Health Study<sup>2</sup> show that children who grow up near diesel sources of pollution have measurable lung damage and an increased risk for asthma. Decreased lung function may lead to weaker and smaller lungs as an adult as well as chronic respiratory problems. Widening the SR-91 will expose families in the nearby neighborhoods to even more toxic vehicle emissions, which have proven to be detrimental to the health of the children and families. It is crucial to prioritize the health impacts this project will have on an already vulnerable community. Therefore, we ask that Caltrans and Metro revise its existing IS/EA and complete a complete environmental analysis.

#### 1. Inadequate Environmental Analysis under CEQA and NEPA

CEQA and NEPA also require government agencies to carry out a transparent evaluation of proposed projects to determine whether the possible impacts may have a significant impact on the environment.<sup>3</sup> Whether a project has significant impacts is not based on the size of the project and even relatively small projects have been found to nevertheless have a significant impact on the environment and people.<sup>4</sup> Staff at Caltrans and Metro have publicly stated that the SR-91 widening will not have impacts on significant resources. Unfortunately, the IS/EA does not provide the necessary analysis to determine whether this freeway expansion project along a freight corridor will have significant impacts on communities already overburdened with pollution.

IP-14-1

<sup>&</sup>lt;sup>1</sup> 2019 Community Health Assessment, Long Beach Department of Health and Human Services, available at http://www.longbeach.gov/globalassets/health/media-library/documents/healthy-living/community/communityhealth-assesment

<sup>&</sup>lt;sup>2</sup> See California Air Resources Board, The Children's Health Study,

https://ww2.arb.ca.gov/resources/documents/childrens-health-study; see also https://news.usc.edu/6538/USC-smog-

study-spanning-a-decade-underscores-health-risk-for-children/. <sup>3</sup> CEQA Guidelines, § 15065; Cal. Gov't Code § 21068 (CEQA significance threshold); 42 U.S.C. § 4332 (NEPA significance threshold).

<sup>&</sup>lt;sup>4</sup> See Parker Shattuck Neighbors v. Berkeley City Council (2013) 222 Cal.App.4th 768, 778–779 ("In other words, while '[e]ffects analyzed under CEQA must be related to a physical change' (Guidelines, § 15358, subd. (b)), such a change may be deemed significant based solely on its impact on people.") (emphasis in original).

Letter Re: Inadequate IS/EA for SR-91 Widening March 1, 2021 Page 3 of 12

Caltrans and Metro cannot avoid their full obligations under CEQA and NEPA simply because this proposed expansion is relatively small. CEQA and NEPA require the preparation of an EIR/EIS when there is a fair argument that there is substantial evidence that a project may have significant environmental impacts.<sup>5</sup> Caltrans and Metro fail to provide adequate analysis and evidence to support their assertions that there will be no or limited impacts on the surrounding community from this widening project. Despite the incomplete and opaque evaluation, there are some indications that the impacts from this project may be significant and may not be adequately avoided, minimized or mitigated as described. Therefore, Caltrans and Metro should fully evaluate all impacts, ensure meaningful public participation by preparing the new environmental documents in a way the public can easily understand and respond to, and explore alternatives to this project. This evaluation should also include a re-assessment of the study area, since this expansion project could have regional impacts.

Caltrans and Metro must consider this project in the context of other proposed freeway expansion projects, including the I-710 S expansion, the I-710 Early Action Projects, the I-605 expansion, the I-605 "hotspots" projects, among others. This project is a I-605 "Early Action Project"<sup>6</sup> (despite the I-605 being 7 miles away) and is intended to precede a larger regional effort to expand freeways in Los Angeles County to accommodate increased traffic and facilitate more goods movement.<sup>7</sup> Unfortunately, it is not clear from the IS/EA itself how this project relates to other future freeway expansions. Caltrans and Metro should clarify this relationship and demonstrate they are not improperly piecemealing this project.<sup>8</sup>

IP-14-2

IP-14-3

<sup>&</sup>lt;sup>5</sup> Taxpayers for Accountable School Bond Spending v. San Diego Unified School Dist. (2013) 215 Cal.App.4th 1013, 1034 (citing No Oil, Inc. v. City of Los Angeles (1974) 13 Cal.3d 68, 75).

<sup>&</sup>lt;sup>6</sup> Draft Project Report (approved on Dec. 16, 2020) for this project explains this proposal comes from a 2015 Feasibility Study of the SR-91, I-605, and I-405 that identified hotspots. (p. 3) Metro intends to pay for this project our of I-605 "Hotspot" project funding. (p. 40).

<sup>&</sup>lt;sup>7</sup> See I-605 Corridor Hot Spots Program website, SR-91 Early Action Projects, https://www.metro.net/projects/i-605-corridor-hot-spots-program/ (accessed Jan. 27, 2021) ("To improve traffic flow along the freeway, Metro and Caltrans District 7, in collaboration with the Gateway Cities Council of Governments (GCCOG) are proposing improvements on SR-91."); see also Project Study Report - Project Development Support (PSR-PDS) to Request Approval of a Locally Funded Project to Proceed to Project Approval and Environmental Document Phase on State Route 91 between Central Ave and Paramount Boulevard (approved July 25, 2017) p. 1 ("SR-91 and I-710 are major facilities within Los Angeles County and carry significant international, interstate, interregional and intraregional travel consisting of people and goods. This area is projected to experience substantial growth for international and domestic goods movement. Reconstruction of the system interchange and widening of the mainline facilities will address existing geometric and operational deficiencies and accommodate projected growth."); see also Metro, Draft Goods Movement Strategic Plan (2021), p. 30 ("Several freeways (I-710, I-605, SR-60 and SR-91) carry upwards of 25,000 trucks a day on some segments... These constrained corridors will only see increased demand from trucks and vehicles as LA County's population, goods consumption and port-related container traffic increase in the coming years."), p. 22 (describes part of Metro's goods movement vision as "Efficient freight movements on shared use rail and highway corridors reduce congestion, create additional opportunities for transit and support the timely movement of goods.").

<sup>&</sup>lt;sup>8</sup> Berkeley Keep Jets Over the Bay Committee v. Board of Port Com'rs (2001) 91 Cal.App.4th 1344, 1358. Courts established a two-prong test for piecemealing (set out in Laurel Heights Improvement Ass'n v. Regents of Univ. of Cal.) to determine whether an EIR must include an analysis of the environmental effects of future expansion or other action: (1) Is it a reasonably foreseeable consequence of the initial project; and (2) Will the future expansion or action be significant in that it will likely change the scope or nature of the initial project or its environmental effects? Laurel Heights Improvement Ass'n v. Regents of Univ. of Cal. (1988) 47 Cal.3d 376, 396.

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#### a. Draft IS/EA Fails to Consider Full Environmental Justice Impacts

Caltrans and Metro are required under CEQA and California Government Code § 11135 to study the environmental justice impacts of proposed projects and mitigate those impacts. A potentially significant EJ impact could trigger an EIS. The IS/EA claims this project will not have environmental justice impacts, except from construction activities, which it proposed to avoid through mitigation measures.<sup>9</sup> However, the environmental justice impacts analysis is incomplete in several ways and we believe the project will in fact have significant environmental justice impacts that will not be mitigated by described measures. The surrounding community is in the 95-100% percentile for CalEnviroScreen,<sup>10</sup> making a complete assessment of environmental justice impacts especially important. Since Caltrans and Metro did not evaluate the full scope of the environmental justice impacts from this project, the mitigation measures referenced in the IS/EA<sup>11</sup> fail to address these impacts.

First, Caltrans incorrectly states that because the short-term construction activities would also impact "non-Environmental Justice populations"<sup>12</sup> the impacts from the project will not be "disportionately high and adverse."<sup>13</sup> The IS/EA fails to identify where these non-EJ populations are. This is an incorrect way of evaluating environmental justice impacts and is a misreading of CEQA.<sup>14</sup> If broadly applied, even a project that primarily impacts communities of color, low-income communities, immigrant communities, and/or other populations who have been historically disenfranchised may be deemed to have no environmental justice impacts as long as it also impacts a "non-Environmental Justice population." That is entirely inappropriate. Here, according of the IS/EA's own definition of the study area, the surrounding communities are over 90% residents of color,<sup>15</sup> as compared to 71% for Los Angeles County and 69% for Long Beach.<sup>16</sup> Therefore, despite Caltrans and Metro's conclusions, any impacts will fall on a community that is majority residents of color.

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IP-14-8

Caltrans and Metro must evaluate whether this widening project will have impacts on populations made up disproportionately of residents protected under CEQA and Gov. Code §

<sup>13</sup> SR-91 IS/EA, at p. 37.

<sup>&</sup>lt;sup>9</sup> Caltrans and Metro, Eastbound State Route 91 / Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project, Initial Study with Proposed Mitigated Negative Declaration / Environmental Assessment (Dec. 2020), pp. 35-37. [hereinafter "SR-91 IS/EA"]

<sup>&</sup>lt;sup>10</sup> CalEnviroScreen, Frequently Asked Questions: <u>https://oehha.ca.gov/calenviroscreen/calenviroscreen-faqs</u>.
<sup>11</sup> The IS/MND/EA refers to the proposed mitigation measures for utilities/emergency services, traffic and

transportation, visual and aesthetics, air quality, and noise and vibrations. SR-91 IS/EA, at p. 38. <sup>12</sup> The IS/EA defines "Environmental Justice populations" as those that are higher than average concentrations of traditionally underserved groups when compared to the area surrounding the Project Area or the city or county as a whole.

<sup>&</sup>lt;sup>14</sup> See Crenshaw Subway Coalition v. Los Angeles County Metropolitan Transportation Authority (C.D. Cal., Sept. 23, 2015, No. CV 11-9603 FMO (JCX)) 2015 WL 6150847, at \*30. ("[T]he fact that different segments of the corridor are similarly impacted does not mean that minority groups are not disproportionately affected by the Project as a whole. In other words, if a minority community... is substantially impacted by the Project and the rest of Los Angeles County is not, it matters little that the sub-parts of the minority community... have been impacted equally.") <sup>15</sup> SR-91 IS/EA, at p 36. Caltrans does not provide a holistic characterization of the impacted communities in the Study Area and instead provides the demographic information for 8 separate census tracts.

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11135, as compared to other appropriate populations. The appropriate comparison populations will depend on the specific burdens and benefits of a particular proposal. While one appropriate comparison population may be those in the project study area, others could include the area in which the agency operates or the area where the benefits of a project will be felt. Studying multiple comparison populations will allow for a more complete evaluation of possible environmental justice impacts. Instead of engaging in this full evaluation, the IS/EA focused its analysis only on whether construction impacts will be borne disproportionately within the study area. While this may sometimes reveal environmental justice impacts, in this instance the analysis obscures other EJ impacts.

Second, the IS/EA states that the area does not have a history of other projects that may have led to disproportionately high or adverse impacts on local residents.<sup>17</sup> This is not an accurate description of the surrounding area. For example, there are at least two metal forges within a mile of this segment of the SR-91 that emits NOx, particulate matter, and volatile organic compounds ("VOCs"), among other toxic air emissions.<sup>18</sup> A full environmental assessment of the project must include more analysis of the existing local and regional conditions to fully evaluate the impacts on surrounding overburdened EJ communities.

The IS/EA also fails to acknowledge the EJ impacts from other nearby freeway expansions. The proposed project is connected to the I-710, which is undergoing its own CEQA/NEPA environmental review for an expansion that will include a geometric redesign of the freeway interchange between I-710 and SR-91<sup>19</sup> and improvements from Del Amo Blvd. to the SR-91.<sup>20</sup> The I-710 expansion, as well as any other expansions of the regional freeways that will allow more freight movement to and from the San Pedro Bay Ports, will increase truck traffic and worsen already poor air quality in these communities.

Caltrans and Metro must consider the impacts of freeway expansion projects as part of their environmental justice analysis because of the disproportionate burden communities of color and low-income people already bear when it comes to the state's diesel trucking emissions.<sup>21</sup> Diesel exhaust contributes to disproportionately higher risks of cancer in individuals who live and/or work near freeways with diesel trucks, rail yards, ports, and warehouses.<sup>22</sup> Diesel exhaust

<sup>&</sup>lt;sup>17</sup> Id., at p. 37.

<sup>&</sup>lt;sup>18</sup> CARB Pollution Mapping Tool, <u>https://ww3.arb.ca.gov/ei/tools/pollution\_map/</u>

<sup>&</sup>lt;sup>19</sup> http://media.metro.net/projects\_studies/I710/images/map\_alternative5c\_2014.pdf

 <sup>&</sup>lt;sup>20</sup> Metro Presentation, I-710 South Corridor Project, Early Action Program Update (Sept. 2020).
 <sup>21</sup> Union of Concerned Scientists, *Inequitable Exposure to Air Pollution from Vehicles in California*, fact sheet (Feb.

 <sup>2019),</sup> available at https://www.ucsusa.org/sites/default/files/attach/2019/02/cv-air-pollution-CA-web.pdf.
 <sup>22</sup> See, e.g., Univ. S. Cal., Env. Health Ctr., References: Living Near Diesel Exhaust,

https://envhealthcenters.usc.edu/infographics/infographic-living-near-diesel-exhaust/references-living-near-dieselexhaust; see also Making a Good Move for Health, A Health Impact Assessment of Select Strategies of the Alameda County Goods Movement Plan (2016) P. 12, http://www.rampasthma.org/D:Web%20Siteswww.rampasthma.orgwpcontentuploads/2016/02/DDD-HIA-Report FINAL.pdf.

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contains many of the same toxic pollutants that are emitted by the nearby metal forgers, such as benzene, formaldehyde, particulate matter, and NOx.<sup>23</sup>

This analysis must also consider the impacts from related regional freeways to fully evaluate the project's <u>cumulative</u> environmental justice impact. Cumulative impacts are those that result from "the combination of the project...together with other projects causing related impacts."<sup>24</sup> The incremental effects of an individual project "are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects."<sup>25</sup> The IS/EA dismisses the cumulative EJ impact by relying on the assumption that future projects will comply with Executive Order 12898<sup>26</sup> and there were will be un-defined measures that reduce environmental justice burdens.<sup>27</sup> Not only does this fails to consider the development of private projects not subject to Executive Order 12898, but also fails to acknowledge that some of these projects may have impacts that will not be fully mitigated.

Lastly, in addition to CEQA and NEPA, there are federal and state laws that require the consideration of environmental justice and prohibit discrimination in decisionmaking processes. Title VI of the Civil Rights Act of 1964 and related statutes and regulations require that there be no discrimination in federally assisted programs on the basis of race, color, national origin, age, sex, or disability. Federal agencies are also obligated under federal executive orders, MOUs, and administrative orders to make environmental justice part of their mission, develop and implement environmental justice strategies, and provide opportunities for effective community participation in the NEPA process, including identifying potential effects and mitigation measures in consultation with affected communities and improving the accessibility of public meetings, crucial documents, and notices.<sup>28</sup> As such, Caltrans and Metro are required to incorporate an environmental justice analysis into their environmental assessment for this proposed SR-91 expansion, but in this draft IS/EA fail to meet this obligation.

#### b. The Proposed Project May Worsen Air Quality

The IS/EA provides a limited analysis of the air quality impacts on the surrounding area and the region. This incomplete evaluation of air emissions is inadequate for any project but is especially inappropriate for a project located in an area with some of the worst air quality in the country. The surrounding area is in the 82% for PM2.5 emissions and 83% for diesel PM in the

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IP-14-13

<sup>&</sup>lt;sup>23</sup> OEHHA, Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant, Part B: Health Effects, (1998) https://ww3.arb.ca.gov/regact/diesltac/partb.pdf

<sup>&</sup>lt;sup>24</sup> CEQA Guidelines at § 15130(a)(1).

<sup>&</sup>lt;sup>25</sup> Id. at § 15065(a)(3).

<sup>&</sup>lt;sup>26</sup> Executive Order 12898, among other requirements, directs federal agencies to identify and address disproportionately high and adverse health and environmental harms on minority and low-income populations to the greatest extent possible and promote nondiscrimination in federal programs. 59 Fed. Reg. 7629 (Feb. 16, 1994).
<sup>27</sup> SR-91 IS/EA, at p. 38.

<sup>&</sup>lt;sup>28</sup>See, e.g., Executive Order 12898, 59 Fed. Reg. 7629 (Feb. 16, 1994); U.S. Department of Transportation, Environmental Justice Strategy (Nov. 25, 2016); U.S. Department of Transportation Order 5610.2 (May 2, 2012); Federal Highway Administration Order 6650.23A (June 14, 2012).

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state<sup>29</sup> and in the 98% for PM2.5 and the 90% for diesel PM in the country<sup>30</sup>. The South Coast IP-14-13 AQMD also highlighted in its Feb. 4 letter regarding this project that the surrounding community (cont.) is already cumulatively impacted by toxic air contaminants.<sup>31</sup>

Due to increased vulnerability, additional mitigation measures may be necessary to reduce the impact from air pollution on the surrounding community. Furthermore, cumulative air impacts can result from individually minor but collectively significant projects taking place over a period of time.<sup>32</sup> Such is the case here, where the SR-91 widening is one of several proposed freeway expansions in South and Southeast Los Angeles, including in Long Beach.

There are multiple places where Caltrans and Metro should have conducted a more robust air emissions analysis. Without a transparent discussion of the analysis that was carried out, the public cannot comment on whether the air quality determinations and analysis are adequate. In one stance, the IS/EA acknowledges MSAT concentration may get worse for some as the highway is brought closer, 33 but fails to carry out an analysis because it would be too difficult to determine the extent of these impacts.<sup>34</sup> Caltrans and Metro should model all the possible air quality impacts, including cumulative impacts, from this project and be transparent about the assumptions they make as part of the modeling.35 Several of the assumptions the IS/EA did include are questionable, such as that faster traffic will reduce air impacts and that lane widening will reduce congestion. However, there is growing evidence freeway expansions do not reduce congestion, but in fact can induce more traffic.<sup>36</sup> The IS/EA also assumes that U.S. EPA regulations and fleet turnover will result in "substantial" reductions in air pollution, but it does not quantify or model these reductions. While agencies are moving forward regulations that will

33 SR-91 IS/EA, at p. 126.

<sup>&</sup>lt;sup>29</sup> CalEnviroScreen, <u>https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-30</u>

<sup>&</sup>lt;sup>30</sup> EJScreen, https://ejscreen.epa.gov/mapper/

<sup>&</sup>lt;sup>31</sup> South Coast Air Quality Management District, Letter to Thoa Le, Senior Environmental Planner, "Re: Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project" (Feb. 4, 2021). The Community Emissions Reduction Plan adopted under AB 617 sets community emission and exposure reduction goals to reduce diesel PM and NOx in this community.

 $<sup>^{32}</sup>$  CEQA Guidelines, § 15355(b) (The cumulative impact from several projects is the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time). "[A] project's cumulative environmental impact cannot be deemed insignificant solely because its individual contribution to an existing environmental problem is relatively small." San Francisco Baykeeper, Inc. v. State Lands Comm'n (2015) 242 Cal. App. 4th 202, 223. "In fact, 'the greater the existing environmental problems are, the lower the threshold should be for treating a project's contribution to cumulative impacts as significant." Id. (quoting Cmtys for a Better Env't v. Cal. Res. Agency (2002) 103 Cal. App. 4th 98, 120).

<sup>&</sup>lt;sup>34</sup> Caltrans and Metro fail to establish a baseline for these pollutants. Under CEQA, an evaluation of impacts is incomplete without a comparison between existing baseline conditions and the conditions expected to be produced by a project. Taxpayers for Accountable School Bond Spending v. San Diego Unified School Dist. (2013) 215 Cal.App.4th 1013, 1047, citing Communities for a Better Environment v. South Coast Air Quality Management Dist. (2010) 48 Cal.4th 310, 328. The extent of possible impacts from this project cannot be evaluated without a baseline of existing emissions to compare projected emissions to. <sup>35</sup> For example, the IS/EA only discusses modeling for PM2.5, PM10, NOx, CO, and reactive organic gases (ROGs),

but fails to describe the assumption incorporated into its modeling. SR-91 IS/EA, at p. 122.

<sup>&</sup>lt;sup>36</sup> See CURBED, Expanding highways and building more roads actually makes traffic worse (Mar. 6, 2020), https://archive.curbed.com/2020/3/6/21166655/highway-traffic-congestion-induced-demand

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require fleets to transition to zero-emission trucks,<sup>37</sup> the transition to zero-emission trucks is currently voluntary and speculative. A project that adds lanes and could increase diesel truck IP-14-17 (cont.) traffic in an area with such high levels of existing air pollution requires a robust evaluation of the project's air quality impacts, including through modeling. A full air quality impact analysis will require a complete list of current and future projects as part of the cumulative impact analysis.<sup>38</sup> The IS/EA currently only lists two transportation projects: the I-710 Corridor Project and the improvements to SR-91 between IP-14-18 Central Ave. and Acacia Court.<sup>39</sup> Since this expansion is considered an Early Action Project for the I-605 Corridor Improvement Project, Caltrans and Metro should at least include the I-605 projects on its list of future transportation projects, as well as any other proposed freeway projects (large and small) that are intended to facilitate the movement of trucks and freight in the region. Furthermore, the environmental analysis should include non-transportation projects that are also reasonably foreseeable and likely to worsen local and regional air quality. The IS/EA also acknowledges that the existing freeway structures, including bridges, could contain asbestos and lead.<sup>40</sup> While the IS/EA proposed a mitigation measure that would IP-14-19 require a survey within the project area for asbestos and lead for the four bridges, retaining walls, and soundwalls connected to other structures,<sup>41</sup> it does not describe how these measures would prevent either asbestos or lead from getting into the air and impacting residents' health. The air quality mitigation measures included in the IS/EA are inadequate and, in some cases, unenforceable.<sup>42</sup> Caltrans and Metro fail to include any mitigation measures to address IP-14-20 increased emissions of CO, PM2.5, PM10, NOx, CO, ROGs, or any other toxic air pollutants other than during construction. Once Caltrans and Metro understand the full air quality impacts from the SR-91 widening, they should include enforceable mitigation measures to address these harms in consultation with impacted community members. c. The Draft IS/EA's Noise Impact Analysis is Inadequate The IS/EA acknowledges the project will increase noise impacts.<sup>43</sup> It describes that IP-14-21 primarily residences, schools and places of worship will be impacted by permanent increases.<sup>44</sup>

However, the study only describes project features and mitigation focused on construction

impacts and relies solely on soundwalls to reduce permanent noise impacts.<sup>45</sup>

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<sup>&</sup>lt;sup>37</sup> The Advanced Clean Trucks Rule requires manufacturers of heavy-duty trucks to sell zero-emission trucks as an increasing percentage of their sales by 2035. <u>https://ww2.arb.ca.gov/resources/fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/advanced-clean-trucks-fact-sheets/adv</u>

fact-sheet <sup>38</sup> SR-91 IS/EA, at p. 31. CEQA suggests that agencies consider factors such as the nature of the environmental resource examined, location of project, and type. CEQA Guidelines § 15130(b).

 <sup>&</sup>lt;sup>39</sup> Ibid. It also includes the two non-transportation projects, such as the Uptown Commons and the Hamilton Loop.
 <sup>40</sup> Id., at p. 125

<sup>41</sup> Id., at pp. 114-15

<sup>&</sup>lt;sup>42</sup> Id., at Appendix A at pp. A-11 to A-13. The "to the extent feasible" language is functionally unenforceable.

<sup>&</sup>lt;sup>43</sup> *Id.*, at p. 147-48 (construction), 149 (operation).

<sup>&</sup>lt;sup>44</sup> *Id.*, at p. 146-48, Tables 31 and 32.

<sup>45</sup> Id., at p. 149.

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(cont.)

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The IS/EA modeled but ultimately decided new soundwalls along the westbound SR-91 and over the I-710/SR-91 connector bridge would not be feasible, despite increases in noise pollution on both sides of the freeway.<sup>46</sup> However, a new 14-foot soundwall will be constructed for another portion of the freeway.<sup>47</sup>

Most troubling about the IS/EA noise impact analysis is that it fails to recognize how a relatively small increase in noise pollution from this project can cumulatively result in a significant impact to communities already overburdened by freeways and traffic. Caltrans and Metro assume because reasonably foreseeable future projects will implement mitigation measures to reduce noise impacts there will be no cumulatively adverse effects despite the anticipated increase in traffic, including truck traffic. Caltrans and Metro must thoroughly study the cumulative noise impact from this widening before they can come to this conclusion, as well as re-evaluate proposed mitigation measures.

#### d. Incomplete Analysis of Water Quality Impacts

The IS/EA states that the project will add impervious surface area, which will increase the volume and velocity of stormwater runoff as well as the amount of pollutants that could be carried into downstream receiving waters.<sup>48</sup> Despite this acknowledgement, the IS/EA doesn't study how stormwater runoff from this project could impact nearby waters, such as the Los Angeles River. Caltrans and Metro cannot base their conclusion that there will not be adverse water quality impacts based on this incomplete analysis.<sup>49</sup>

Additionally, the IS/EA does not describe the Best Management Practices (BMPs) that will be necessary to treat the runoff from this project. Instead, the study refers to the guidance documents it will follow when maintaining BMPs.<sup>50</sup> Apart from a commitment to "protect in place or replace[] in-kind" existing BMPs, Caltrans and Metro do not commit to additional steps to prevent new water pollution from entering waterways such as the Los Angeles River.

Caltrans and Metro must carry out a full evaluation of the stormwater and other waterrelated impacts from this project and describe in detail measures it will take to prevent and reduce water pollution. They fail to do here.

#### e. Failure to use Vehicle Miles Traveled and Analyze Induced Travel is Inappropriate

The IS/EA does not use vehicle miles traveled (VMT) to measure the transportation impact from this project, despite the mandate under SB 743 (2013)to adopt VMT as the metric of significance instead of Level of Service (LOS). Caltrans and Metro support using LOS instead

<sup>50</sup> *Ibid.* ("Procedures in the Caltrans Stormwater Quality Handbooks, Project Planning and Design Guide will be followed for maintaining existing treatment Best Management Practices (gross solids removal devices) to the Maximum Extent Practicable.")

<sup>&</sup>lt;sup>46</sup> *Id.*, at pp. 150, 152.

<sup>&</sup>lt;sup>47</sup> Id., at p. 152.

<sup>&</sup>lt;sup>48</sup> Id., at p. 102.

<sup>&</sup>lt;sup>49</sup> Id., at p. 103.

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of VMT circularly by claiming that the project is exempt because it will not lead to a substantial increase in vehicle travel.<sup>51</sup> The Governor's Office of Planning and Research (OPR) has advised lead agencies that auxiliary lanes in general are likely to lead to a measurable and substantial increase in vehicle travel.<sup>52</sup> Although auxiliary lane projects that are less than one mile and designed to improve road safety "generally" do not require an induced travel analysis according to the OPR, the proposed project is greater than one mile, and not only intended to address safety IP-14-26 concerns, but also to relieve congestion by increasing vehicle capacity.<sup>53</sup> In fact, the IS/EA relies (cont.) on the assumption that the project will relieve congestion as a basis for assuming air quality impacts will not be significant, which demonstrates that Caltrans and Metro intend this project to add vehicle capacity in addition to provide safety improvements. As described above, this project is also tied to a broader vision of increasing regional freeway capacity. Therefore, Caltrans and Metro must provide more support for this conclusion rather than simply rely on the length of the lanes the project will add. The aforementioned OPR technical advisory tells lead agencies to expect that increasing vehicle capacity will induce vehicle travel with an elasticity of 1.0 -- every 1% increase in capacity will yield a 1% increase in VMT. A recent analysis from UC Davis found that Caltrans and local partner agencies consistently failed to properly estimate induced travel in their environmental reviews.<sup>54</sup>

Caltrans and Metro should also describe its construction mitigation measures in more detail to allow community members to adequately comment on whether these measures will avoid impacting access to services and employment.

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IP-14-28

#### f. The Project Alternatives Analysis is Flawed

It is crucial that Caltrans and Metro identify a properly robust set of alternatives.<sup>55</sup> An agency must "[r]igorously explore and objectively evaluate all reasonable alternatives."<sup>56</sup> The IS/EA fails to do this. While the IS/EA states that the agencies considered several alternatives besides Alternative 2, none were studied as part of the IS/EA. Instead, the alternatives analysis only considers no build and build,<sup>57</sup> which is not a reasonable range of alternatives.

<sup>&</sup>lt;sup>51</sup> Id., at p. 204

<sup>&</sup>lt;sup>52</sup> Governor's Office of Planning and Research, Technical Advisory on Evaluating Transportation Impacts in CEQA (Dec. 2018), p. 20, available at https://opr.ca.gov/docs/20190122-743\_Technical\_Advisory.pdf.

<sup>&</sup>lt;sup>53</sup> SR-91 IS/EA, at p. 8 ("State Route 91 experiences substantial congestion, which is forecast to increase in the absence of physical and operational improvements.... The existing and forecasted traffic volumes along the Eastbound State Route 91 mainline [] with the short weaving distances between the closely spaced interchanges of the I-710 to Eastbound State Route 91 connectors, Atlantic Avenue, and Cherry Avenue result in congested operations at the confluence area between the I-710 to Eastbound State Route 91 connectors and the Cherry Avenue off-ramp.")

<sup>&</sup>lt;sup>54</sup> Jamey Volker, Amy Lee, and Susan Handy, Institute of Transportation Studies, University of California, Davis, Environmental Reviews Fail to Accurately analyze Induced Vehicle Travel from Highway Expansion Projects (Jan. 2021), https://escholarship.org/uc/item/14b0x0nm.

<sup>&</sup>lt;sup>55</sup> Agencies must consider project alternatives under NEPA (40 C.F.R. § 1502.14 for EIRs and 40 CFR § 1501.5 for EAs) and CEQA (CEQA Guidelines, § 15126.6).

<sup>56</sup> See 40 C.F.R. § 1502.14.

<sup>57</sup> SR-91 IS/EA, at p. 16.

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#### 2. Public Participation Failures

CEQA and NEPA are clear about the importance of meaningful public participation in the environmental review process. 58 The U.S. Department of Transportation's EJ Strategy also calls for active and meaningful public participation during the assessment of transportation infrastructure projects to "help ensure that transportation plans and projects avoid, and when avoidance is not possible, minimize, or mitigate these impacts on minority and low-income populations."59 Additionally, federal and state civil rights laws also prohibit excluding individuals or communities from participation on the basis of race, color, or national origin (among other protected characteristics).<sup>60</sup>

Rather than embody these goals of public participation, the IS/EA here was prepared as a highly technical report that members of the public, including those with limited English proficiency, would find difficult to completely understand, much less respond to. Federal guidance on NEPA stresses the importance of translating environmental review documents if the IP-14-29 community affected by the project speaks a language other than English.<sup>61</sup> While Caltrans and Metro eventually created fact sheets and FAQ documents for the project, they did not provide a Spanish-language notification to the surrounding community until after a resident made the request in late January. They did not translate<sup>62</sup> the project fact sheet and FAQ into Spanish until mid-February. Finally, the agencies only extended the public comment period and provided an IP-14-30 opportunity for the community to speak with agency staff following a request from a resident.

In addition to completing a full and robust analysis of environmental impacts of this project, Caltrans and Metro should also comply with their obligations under CEQA, NEPA, and other laws to meaningfully engage with the public and decisionmakers on the proposed project.

IP-14-31

<sup>58</sup> CEQA Guidelines § 15201. ("Public participation is an essential part of the CEQA process."); 40 C.F.R. § 1500.1 ("NEPA's purpose is not to generate paperwork or litigation, but to provide for informed decision making and foster excellent action."). 59 U.S. Department of Transportation, Environmental Justice Strategy (Nov. 15, 2016), available at

https://www.transportation.gov/transportation-policy/environmental-justice/environmental-justice-strategy. 60 60 Under Title VI of the Civil Rights Act of 1964, "No person in the United States shall on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." 42 U.S.C. § 2000d. California's civil rights statute, Government Code section 11135, provides that: "No person in the State of California shall, on the basis of race, national origin, ethnic group identification, religion, age, sex, sexual orientation, color, genetic information, or disability, be unlawfully denied full and equal access to the benefits of, or be unlawfully subjected to discrimination under, any program or activity that is conducted, operated, or administered by the state

<sup>&</sup>lt;sup>61</sup> "DOT [] will ensure that communities with Limited English Proficiency (LEP) and low literacy populations have access to information to the fullest extent feasible and that their participation in providing input into decisionmaking is encouraged." U.S. Department of Transportation, Environmental Justice Strategy (Nov. 15, 2016), available at https://www.transportation.gov/transportation-policy/environmental-justice/environmental-justice/ strategy. See also Council on Environmental Quality, Environmental Justice Guidance Under the National Environmental Protection Act (Dec. 10. 1997) (hereinafter, "CEQA EJ Guidance under NEPA"), 13, available at https://www.epa.gov/sites/production/files/2015-02/documents/ej guidance nepa ceq1297.pdf. 62 Federal guidance stresses the importance of translating environmental review documents if the community

affected by the project speak a language other than English.

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#### 3. Conclusion

In conclusion, Caltrans and Metro must updated the environmental analysis for this freeway expansion project to ensure that the health of community members will not be jeopardized. The updated analysis must be recirculated in a new environmental document. Caltrans and Metro must also implement improved public engagement to ensure the public is able to meaningfully provide comments and input on the proposed project.

Sincerely,

Sylvia Betancourt Long Beach Alliance for Children with Asthma

Taylor Thomas East Yard Communities for Environmental Justice

Peter M. Warren San Pedro & Peninsula Homeowners Coalition

Adrian Martinez Earthjustice

Natalia Ospina Natural Resources Defense Council

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project Initial Study/Environmental Assessment with MND/FONSI F-63

IP-14-32

**Response IP-14-1:** Thank you for your comment. As described in Section 1.5 Project Description of the IS/EA, the EB SR-91 Atlantic Avenue to Cherry Avenue project is a safety project to enhance operational safety conditions along the mainline and ramps and includes the addition of a 0.86-mile auxiliary lane on EB SR-91. This project is not a capacity increasing project and will not be adding a through-lane on SR-91. Higher CO2 emissions are typically associated with heavy congestion. The benefits of the project include improved operations, reduced congestion, increased safety, CO2 sequestering landscape concepts, and infrastructure elements to facilitate the implementation of the Hamilton Loop Project, should that project move forward, which is anticipated to bring additional benefits to the community.

The level of significance for this project was not determined based on the size of the project, but rather informed by the technical studies and environmental analysis completed during the early planning phase and then the Project Approval/Environmental Document phase. Technical studies were completed to follow state and federal requirements, and the findings from the technical studies were then used to support preparation of the Initial Study/Environmental Assessment (IS/EA). The IS/EA provides the necessary analysis needed to determine impacts to the community. Additional details regarding the level of environmental document are provided in Comment Response IP-14-2.

The Project will comply with ECR noise and construction vibration measures during construction which include AVM-NOI-1 to AVM-NOI-3, and ECR air quality measures PF-AQ-1 to PF-AQ-13. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for an updated list of measures, including additional measures that will minimize construction impacts to the community. The additional measures include but are not limited to:

- Modify construction staging to expedite construction and minimize exposure time to adjacent residents (Measure PF-COM-3 has been updated to include this additional language).
- Measure PF-COM-4 has been added, which states that during Final Design, Caltrans and Metro will consider and incorporate measures that support equity, environmental justice and community values by minimizing construction impacts to those who may be directly impacted.
- Use of equipment and tools with minimal noise/vibration (Measure AVM-NOI-2 was updated to include this additional language).
- During final design, use of rubberized asphalt on the re-constructed portion of the Atlantic Avenue on-ramp and Cherry Avenue off-ramp would be explored to as a long-term noise reduction method (AVM-NOI-4 is a new measure that has been included as an Avoidance and Minimization measure).
- Construction activity sources are required to implement best available control measures for the control of fugitive dust in order to comply with SCAQMD Rule 403 (Measure PF-AQ-14 is a new measure that has been included as a project feature).

**Response IP-14-2:** As stated in Comment Response IP-14-1, the EB SR-91 Atlantic Avenue to Cherry Avenue project is a safety project to enhance operational safety conditions along the mainline and ramps and includes the addition of a 0.86-mile auxiliary lane on EB SR-91. This project is not a freeway expansion project and will not be adding a through-lane on SR-91.

The decision to not prepare an EIR/EIS was not determined simply because the proposed auxiliary lane extension is small. The Initial Study/Environmental Assessment (IS/EA) was prepared based on technical studies conducted for the project, which followed state and federal

requirements. Under CEQA, the IS concluded that the project had no impact, less than significant impact, or less than significant impact with mitigation incorporated to affected resources. After public circulation and consideration of public comments, the IS/EA was revised as needed. The conclusion that the project would not result in any significant impact to the environment was unchanged, so a Mitigated Negative Declaration (MND) was prepared and an Environmental Impact Report (EIR) was not required. Similarly, under NEPA, an EA was prepared. After public circulation and consideration of public comments, the IS/EA was revised as needed. Based on the revised EA, it was concluded that the project as a whole would not have a significant impact on the environmental Impact Statement (EIS) was not required.

**Response IP-14-3:** As stated in Comment Response IP-14-1, the EB SR-91 Atlantic Avenue to Cherry Avenue project is a safety project to enhance operational safety conditions along the mainline and ramps and includes the addition of a 0.86-mile auxiliary lane on EB SR-91. This project is not a capacity increasing project and will not be adding a through-lane on SR-91.

The EB SR-91 Atlantic Avenue to Cherry Avenue project was identified in the SR-91 Central Avenue to Paramount Boulevard Project Study Report - Project Development Support as an early action project for the SR-91 because it is a project that would provide relief to existing deficiencies on SR-91. See Section 1.4 - Independent Utility and Logical Termini in the IS/EA for a description of how the auxiliary lane and modifications of the project will provide benefits to the traveling public without being dependent on the provision of other improvements along SR-91. Additionally, Section 1.4 also states the limits of the project provides logical termini as the beginning and end points of the project limits serve as rational endpoints. A Cumulative Impact Analysis was conducted to identify potential impacts in conjunction with other projects that would be under construction at the same time (see Chapter 2 of the IS/EA for cumulative impact discussions).

**Response IP-14-4:** The environmental document includes discussion of environmental justice impacts in Section 2.1.1 Environmental Justice in relation to NEPA regulation, Executive Order 12898. There is no requirement under CEQA to study environmental justice impacts; however, the environmental document does comply with California Government Code § 11135 as the project will not deny full and equal access to the benefits of any program or activity carried out for this project. Additionally, although the project is located in an area with a high number of minority and low-income populations (i.e., Environmental Justice populations), the project environmental justice impact analysis concludes that the project would not result in a disproportionately high and adverse effect to environmental justice populations.

**Response IP-14-5:** Section 2.1.1 Environmental Justice has been updated. The section states that environmental justice populations would be affected by construction activities since construction would occur adjacent to these populations. However, the analysis concludes that the Project would not result in a disproportionately high and adverse effect on any minority or low-income populations. The project team notes that the surrounding community is in the 95-100 percentile under the Cal EPA - CalEnviroScreen tool.

Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for an updated list of measures, including additional measures that will minimize construction impacts to the community. The additional measures include but are not limited to:

- Modify construction staging to expedite construction and minimize exposure time to adjacent residents (Measure PF-COM-3 has been updated to include this additional language).
- Measure PF-COM-4 has been added, which states that during Final Design, Caltrans and Metro will consider and incorporate measures that support equity, environmental justice and community values by minimizing construction impacts to those who may be directly impacted.
- Use of equipment and tools with minimal noise/vibration (Measure AVM-NOI-2 was updated to include this additional language).
- During final design, use of rubberized asphalt on the re-constructed portion of the Atlantic Avenue on-ramp and Cherry Avenue off-ramp would be explored to as a long-term noise reduction method (AVM-NOI-4 is a new measure that has been included as an Avoidance and Minimization measure).
- Construction activity sources are required to implement best available control measures for the control of fugitive dust in order to comply with SCAQMD Rule 403 (Measure PF-AQ-14 is a new measure that has been included as a project feature).

**Response IP-14-6:** The environmental document includes discussion of environmental justice impacts in relation to NEPA regulation, Executive Order 12898. Section 2.1.1 Environmental Justice has been updated to provide a more detailed analysis of the Project's effects on environmental justice populations. Please refer to Comment Response IP-14-5 which includes a list of additional measures that would be incorporated during construction.

**Response IP-14-7:** The environmental document includes discussion of environmental justice impacts in Section 2.1.1 Environmental Justice per the adequate NEPA regulation, Executive Order 12898; there is no requirement under CEQA to study environmental justice impacts. Section 2.1.1 Environmental Justice has been updated to better illustrate where the non-environmental justice populations are located in relation to the environmental justice populations. Additionally, the analysis has been revised to better clarify and support the analysis and conclusion that although the Project Study Area is located in an area with a high percentage of environmental justice populations, the project would not result in disproportionately high and adverse effects.

**Response IP-14-8:** The Environmental Justice analysis has been updated to discuss temporary and permanent impacts to environmental justice populations and whether these impacts would disproportionately affect environmental justice populations compared to the community of comparison (see Section 2.1.1 Environmental Justice). The updated Environmental Justice section also refers to the avoidance, minimization, and mitigation measures, as well as project features, that will be implemented for this project. The updated Environmental Justice analysis includes a more detailed description of the affected environment and identification of minority and low-income populations, and follows guidelines to comply with Executive Order 12898.

**Response IP-14-9:** Section 2.1.1 Environmental Justice has been updated to better describe what the construction and operational impacts are to environmental justice populations. Section 2.1.1 has also been revised to clarify why impacts are not disproportionately high and adverse to environmental justice populations.

**Response IP-14-10:** The statement about the project area not having a history of other projects that may have led to disproportionately high or adverse impacts on EJ populations has been removed from Section 2.1.1 Environmental Justice. Please also refer to Chapter 2 - Cumulative

Impacts, and the Cumulative Impacts subsection within Section 2.1.1 Environmental Justice which have been updated to include discussions about the anticipated cumulative impacts that could result from current and future projects.

**Response IP-14-11:** The cumulative impact section under Section 2.2.1 Environmental Justice has been updated to account for the project's potential to contribute to, and result in cumulative impacts to EJ populations.

**Response IP-14-12:** The EB SR-91 Atlantic Avenue to Cherry Avenue project is a safety project to enhance operational safety conditions along the mainline and ramps, and includes the addition of a 0.86-mile auxiliary lane on EB SR-91. This project is not a capacity increasing project and will not be adding a through-lane on SR-91. Section 2.1.1 Environmental Justice has been revised to incorporate a more robust environmental justice analysis.

**Response IP-14-13:** Section 2.2.5 Air Quality is based on the Air Quality Report and Traffic Operations Analysis Report prepared for this project. The project was also reviewed by SCAG's Transportation Conformity Working Group and was determined to not be a Project of Air Quality Concern (POAQC) for PM10 and/or PM2.5 because it does not meet the definition of a POAQC as defined in U.S. EPA's Transportation Conformity Guidance. The Project is not a new or expanded highway that would result in a significant increase in diesel vehicles. As noted in Section 2.1.3, Traffic and Transportation/Pedestrian and Bicycle Facilities, the Project would not result in significant increase in traffic volumes along area roadways, nor would the Project result in a significant increase in the number of diesel vehicles operating along area roadways.

It is noted for the record that the EB SR-91/Atlantic Ave to Cherry Ave Lane Improvement Project is located adjacent to the Wilmington, Carson, West Long Beach (WCWLB) community. This project is approximately one-mile from the northwest limits of the WCWLB Boundary and is not a part of the Community Emission Reduction Plan (CERP) area. Although the Project is not subject to the implementation plan outlined in the CERP, the project includes fourteen air quality measures (PF-AQ-1 through PF-AQ-14 to reduce and minimize construction related air quality effects to the community. Please refer to Appendix A - Avoidance, Minimization, and/or Mitigation Summary for the complete list of measures.

**Response IP-14-14:** Construction concerns have been responded to. Please refer to Comment Response IP-14-1.

**Response IP-14-15:** The EB SR-91 Atlantic Avenue to Cherry Avenue project is a safety project to enhance operational safety conditions along the mainline and ramps and includes the addition of a 0.86-mile auxiliary lane on EB SR-91. This project is not a capacity increasing project and will not be adding a through-lane on SR-91. Please see Comment Response F-1-4 for a response to cumulative air quality impacts, and refer to the Cumulative Impacts subsection of Section 2.2.5, located following the list of Air Quality Project Features, for a discussion of cumulative air quality impacts.

**Response IP-14-16:** A section describing the industry-standard assumptions that were used to complete the Air Quality Report and the analysis in the Initial Study/Environmental Assessment has been added to Section 2.2.5 Air Quality. Particularly, Section 2.2.5 Air Quality has been updated to include such language to describe that in FHWA's view, information is incomplete or unavailable to credibly predict the project-specific health impacts due to changes in MSAT emissions associated with a proposed set of highway alternatives. The outcome of such an

assessment, adverse or not, would be influenced more by the uncertainty introduced into the process through assumption and speculation rather than any genuine insight into the actual health impacts directly attributable to MSAT exposure associated with a proposed action. Additionally, the discussion of cumulative impacts on Air Quality has been revised in Section 2.2.5 Air Quality, and is located following the list of Air Quality Project Features.

**Response IP-14-17:** The EB SR-91 Atlantic Avenue to Cherry Avenue project is a safety project to enhance operational safety conditions along the mainline and ramps and includes the addition of a 0.86-mile auxiliary lane on EB SR-91. This project is not a capacity increasing project and will not be adding a through-lane on SR-91.

As described in Section 2.1.3 Traffic and Transportation, traffic is not expected to increase as a result of this project. The project would include operational improvements to SR-91 and would not result in significant increases in overall traffic or truck volumes. See Table 22 Comparison of Eastbound Segment Traffic Average Daily Traffic Volumes-Opening Year 2024 and Table 24 Comparison of Eastbound Segment Traffic and truck volumes for the No Build, Opening Year (2024) and Design Year (2045) show that the project would not result in significant increases in overall traffic or truck volumes for Opening Year (2024) and Design Year (2045) show that the project would not result in significant increases in overall traffic or truck volumes. Average daily traffic and truck volumes for Opening Year (2024) compared to the No Build Condition show an increase in truck traffic from 0% to 3% for all project segments. For Design Year (2045) the change from No Build Conditions shows a similar increase in truck traffic from 0% to 3% for all project segments. The proposed Build Alternative would not result in a significant increase in truck volumes.

**Response IP-14-18:** The cumulative impacts section for Air Quality has been updated to better describe the potential for other projects to contribute to cumulative effects on air quality during operation (see Section 2.2.5). Table 6 - Current and Future Projects, identifies projects that are reasonably foreseeable projects within the project study area. The two transportation projects identified are included in SCAG's 2020-2045 RTP/SCS and 2019 FTIP, which take regionally significant projects into account, and were determined to conform to the state implementation plan for attaining and maintaining the NAAQS. Additionally, in combination with the EB SR-91/Atlantic Ave to Cherry Ave Lane Improvement Project, long-term air pollutant emissions associated with transportation projects are anticipated to be reduced in the future because of implementation of fuel regulations, improved fleet average fuel economy, and the gradual removal of older vehicles from the roads.

**Response IP-14-19:** The project will comply with all federal, state and local requirements in the handling, testing and disposing of any potentially hazardous materials to prevent any exposure to the residents and the community. Additionally, during the next phase of the project (final design), a soil site investigation for aerial deposits of lead (ADL) and organochlorine pesticides would be conducted for the maximum extent of proposed soil excavation (AVM-HW-2), asbestos-containing material (ACM) and lead based paint (LBP) surveys would be conducted for the project area (AVM-HW-3), and removal plans for both lead based paint (e.g., yellow thermoplastic striping) and treated wood waste would be prepared (AVM-HW-4). A Health and Safety Plan will be prepared for this project to cover activities including ADL testing, ACM and LBP surveys, removal of LBP and treated wood waste, and project construction.

**Response IP-14-20:** As described in Section 2.2.5 Air Quality and Chapter 3: CEQA Evaluation - CEQA Significance Determinations for Air Quality, most of the construction impacts to air

quality are short term in duration and would not result in long-term adverse conditions; and air quality impacts are determined less than significant thus mitigation measures under CEQA for Air Quality are not required. In comparison to the No Build Alternative year 2024 conditions, the proposed Build Alternative is predicted to increase emissions by approximately 3% for PM2.5, PM10, NOx and ROG with a 2% increase for CO; and in comparison to No Build Alternative year 2045 conditions, the proposed Build Alternative is predicted to increase emissions by approximately 3% for PM2.5, PM10, NOx and ROG with a 2% increase for CO; and in comparison to No Build Alternative year 2045 conditions, the proposed Build Alternative is predicted to increase emissions approximately 3% for PM2.5, PM10 and NOX with 2% for CO and ROG.

During construction, several project features will be in place to protect the community. The Project will comply with construction standards adopted by the South Coast Air Quality Management District (SCAQMD) as well as Caltrans standardized procedures for minimizing air pollutants during construction. Caltrans is committed to the use of low-emission construction equipment and vehicles, which is anticipated to include equipment meeting the newer Tier 4 emission standards in the future. The project includes fourteen air quality measures (PF-AQ-1 through PF-AQ-14) to reduce and minimize construction related air quality effects to the community. This includes dust control measures that will be implemented per SCAQMD fugitive dust, including street sweeping and water trucks.

**Response IP-14-21:** The Noise Study Report (NSR) and a Noise Abatement Decision Report (NADR) were prepared for the Project. Potential abatement measures must be considered when it is determined that the project will result in noise impacts, and where noise impacts are predicted in areas of frequent human use that would benefit from a lowered noise level. Noise abatement measures that are determined to be reasonable and feasible at the time of final design are then incorporated into the project's plans and specifications. Noise abatement is being considered at locations where the noise levels in the design-year are predicted to approach or exceed the noise abatement criterion at the specified land use (see Table 30 in Section 2.2.6 Noise and Vibration).

Along WB SR-91, the traffic noise modeling results indicate that future traffic noise levels at the respective land uses are predicted to range from 60 to 72 dBA Leq(h) in the design-year (2045), where noise levels are predicted to approach or exceed the Noise Abatement Criteria (NAC) at residences (67 dBA Leq[h]). However, where the data shows that the NAC could approach or exceed the NAC, the existing conditions already approach or exceed the NAC; that is, the predicted future noise levels would not see any increase in dBA from existing conditions. Additionally, where the modeling results indicate a 2 dBA increase in noise between existing conditions and the design-year, the dBA increase was modeled at a receptor location that is not expected to approach or exceed the NAC. Four barriers along WB SR-91 were evaluated at heights ranging from 8 to 16 feet in 2-foot increments. However, none of the barriers evaluated in this area would achieve the minimum noise reduction of 5 dB at the critical receptors to be considered acoustically feasible.

Along EB SR-91, the traffic noise modeling results also indicate that traffic noise levels at the land uses are predicted to range from 59 to 72 dBA Leq(h) in the design-year, where noise levels are predicted to approach or exceed the NAC at residences (67 dBA Leq[h]). The interior noise level at the school in the design year is therefore predicted to be 49 dBA Leq(h), and 51 dBA Leq(h) at the place of worship. Because this predicted design-year noise level does not approach or exceed the interior NAC of 52 dBA Leq(h), no interior traffic noise impacts are predicted. One modeled location is predicted to see an increase in noise up to a 13 dBA; and a few other locations are predicted to see increases that approach or exceed the NAC for the designated land use. Therefore, noise abatement was considered in the Project Study Area.

As part of the NSR and NADR, detailed modeling analysis was conducted for two barriers located at the edge of the shoulder along EB SR-91 and four barriers located at the edge of the shoulder along WB SR-91. A 14 foot sound wall BA-4, along EB SR-91, was considered to be reasonable and feasible. The barrier would be constructed on the edge of the freeway from approximately the edge of the existing retaining wall at the corner of 67th Street and Millmark Avenue on the Atlantic Avenue on-ramp to the vicinity of the existing sound wall on the Cherry Avenue off-ramp. Barrier BA-4 would achieve the minimum noise reduction to be considered acoustically feasible and would replace existing noise barrier, EXB-4. This noise barrier would also meet the Caltrans design goal of 7 dB noise reduction at one or more benefited receivers for all evaluated wall heights, with a length of approximately 4,864 feet. Calculations based on preliminary design data show that a 14-foot barrier would reduce noise levels by 5 to 13 dBA, and a 16-foot barrier would reduce noise levels by 5 to 14 dBA. Implementation of BA-4 would result in noise reductions at each of the locations that are predicted to see an increase in noise that approach or exceed the NAC; the predicted noise levels with BA-4 would either be reduced to the same decibel as existing conditions or lower than existing conditions and would mitigate the noise impact to less than significant under CEQA. Please refer to Section 2.26, Figure 15, Noise and Vibration of the environmental document, and Chapter 3: CEQA Evaluation - CEQA Significance Determination for Noise.

Additionally, the Project Team evaluated extending the noise barrier at the Atlantic Avenue onramp and Cherry Avenue off-ramp to provide residents above and beyond the coverage/recommendation noted in the NSR and NADR. In addition to the NSR and NADR, the evaluation to determine the lengths of the walls and feasibility took into consideration design standards and safety, as well as FHWA and Caltrans criteria and thresholds for making a wall feasible. After taking into account the noise measurement readings and noise modeling, extending the wall lengths in these particular locations (Atlantic Avenue on-ramp and Cherry Avenue off-ramp) would result in a gain of less than 1 decibel of improvement at those particular locations. According to the Caltrans Traffic Noise Analysis Protocol, abatement measures such as noise barriers, must achieve a 5 decibel noise reduction at impacted receptor locations in order to be considered acoustically feasible; therefore, extending the noise barrier at these locations would not meet the criteria for being acoustically feasible and reasonable and will not be included as part of this project. The lack of decibel improvement in this area is also due to the existing sound wall along the SR-91 mainline which currently mitigates most of the noise in this area.

**Response IP-14-22:** The EB SR-91 Atlantic Avenue to Cherry Avenue project is a safety project to enhance operational safety conditions along the mainline and ramps and includes the addition of a 0.86-mile auxiliary lane on EB SR-91. This project is not a capacity increasing project and will not be adding a through-lane on SR-91. The Cumulative Impacts section in Section 2.2.6 Noise and Vibration has been revised to provide information about the I-710 Corridor Project where sound walls are anticipated to provide noise reduction (ranging from six to nine dBA) to residences in the surrounding neighborhoods within the project study area. Therefore, the EB SR-91 Atlantic Avenue to Cherry Avenue project would not contribute to cumulatively adverse impacts in combination with the I-710 Corridor Project. Additionally, all major roadway improvement projects were included in the SCAG regional model, including both transportation projects discussed in the Cumulative Impacts section (I-710 Corridor and SR-91/Central to Acacia). Traffic noise impacts are calculated using forecast traffic data, which takes into account all projects provided in the SCAG 2020/2045 RTP/SCS. Additionally, the noise modeling takes into account maximum occupancy of the roadway; therefore, traffic noise

modeling results for predicted design-year conditions does account for anticipated increases in traffic.

**Response IP-14-23:** The Stormwater Data Report (SWDR) is prepared based on Caltrans requirements and addresses stormwater runoff and any potential impacts to water quality or downstream receiving waters. The feasibility of incorporating permanent treatment BMPs was evaluated to the Maximum Extent Practicable. This project will maximize treatment as much as possible before it discharges to the LA River. The implementation of the Project includes complying with the State NPDES requirements and Los Angeles River Trash TMDL. The existing BMPs within the project limits are Gross Solid Removal Devices (GSRDs). GSRDs include physical or mechanical methods to remove litter and solids 0.20 inch nominal and larger from the stormwater runoff, usually done using various screening technologies. The proposed project will either protect in place the existing GSRDs or replace with new ones if impacted by the proposed improvements. The post-construction treatment area exceeds the total new impervious surfaces in the proposed project. The GSRDs will be installed to capture trash (litter and solids) draining to Los Angeles River.

**Response IP-14-24:** The feasibility of incorporating permanent treatment control BMPs including infiltration basins and trenches, biofiltration strips and swales, and media filters was evaluated and it concluded that due to the site conditions such as existence of retaining walls and steep slopes (as high as 2:1, H:V) and limited available ROW, the only Caltrans approved treatment BMP feasible for this project are GSRDs which will address trash TMDL within the project area (to the Maximum Extent Practicable [MEP]). The existing GSRDs within the project limits along with the new ones that will be installed by this project will treat the stormwater runoff to address the Los Angeles River trash TMDL.

**Response IP-14-25:** A Caltrans Stormwater Data Report was completed in December 2020 for this project and includes full evaluations of stormwater and other stormwater-related impacts from this project. During final design, the Stormwater Data Report will be updated to include comprehensive discussions in regards to measures that reduce Stormwater Impacts during and after construction. The water pollution prevention control measures during construction includes temporary erosion control, fiber rolls, inlet protections. The post-construction stormwater pollution prevention measures include slope/surface protection systems such as permanent erosion control, hard surface protection, concentrated flow conveyance systems, preservation of existing vegetation and treatment BMP strategy (GSRDs).

**Response IP-14-26:** With the passing of SB 743, Caltrans has chosen to use VMT as the CEQA transportation metric for projects on the state highway system. However, the intent of SB 743 is to measure potential transportation impacts for roadway capacity projects utilizing VMT as a metric. The purpose of the addition of an auxiliary lane is to improve traffic operations and not to increase capacity. Additionally, though SB 743 mandates the use of VMT as a metric for determining level of significance under CEQA, Caltrans still permits LOS to be used in environmental analysis to measure non-CEQA impacts.

The addition of a 0.86-mile-long auxiliary lane would enhance safety conditions on the EB SR-91 mainline, reduce weaving-related congestion, and improve EB freeway operations (both mainline and ramps). As the CEQA lead agency for this project, Caltrans follows the California Governor's Office of Planning and Research (OPR) guidance for both CEQA and project impact analysis. Per Caltrans and OPR guidance and technical advisory, Caltrans determined that a VMT-based transportation impact significance determination is not warranted for this Project because the "addition of an auxiliary lane of less than one mile in length designed to improve roadway safety" is a project type "not likely to lead to a measurable and substantial increase in vehicle travel " (Caltrans Transportation Analysis under CEQA [TAC], September 2020, p. 14 and OPR Technical Advisory on Evaluating Transportation Impacts in CEQA, December 2018, p. 21) and therefore can be screened out from further analysis, obviating the need for mitigation.

**Response IP-14-27:** Concerns about construction have been responded to in Comment Response IP-14-1.

**Response IP-14-28:** Per the Federal Highway Administration's (FHWA) Technical Advisory T 6640.8A (October 30, 1987), an EA may either discuss (1) the preferred alternative and identify any other alternatives considered or (2) if the applicant has not identified a preferred alternative, the alternatives under consideration. The EA does not need to evaluate in detail all reasonable alternatives for the project, and may be prepared for one of more build alternatives. This Project evaluated two alternatives, the Build Alternative and the No Build Alternative. Additionally, under NEPA, the CEQ adds that reasonable alternatives include those that are practical and feasible from a technical and economic standpoint. Under CEQA, the purpose of an Initial Study is to determine if the project will have a significant impact on the environment, therefore, CEQA only requires that you analyze the proposed project in an Initial Study, which was referred to as the Build Alternative in the IS/EA. If the Initial Study had found that the project would result in a potentially significant adverse effect on the environment, an Environmental Impact Report would be required and would necessitate the consideration of a range of reasonable alternatives to achieve the basic objective of the project.

Various alternatives were reviewed during project initiation including six build alternatives developed during the conceptual phase (PSR/PDS). These alternatives were rejected due to anticipated significant impacts to the community including right of way takes ranging from partial to full takes along 67th Street. Please refer to Section 1.5.3 of the IS/EA which has been updated to describe the alternatives that were evaluated during the preliminary engineering and environmental phase of the Project but eliminated from further discussion due to the additional right of way required and the additional impacts to the community.

**Response IP-14-29:** Thank you for your feedback. In addition to the mailers that were sent to residents in proximity to the Project Area at the beginning of circulation, the Notice of Availability and Notice of Intent to adopt a Mitigated Negative Declaration was also published in two newspapers the Long Beach Press-Telegram (English) and La Opinion (Spanish).

Following a request for a public hearing, details of the scheduled virtual public hearing were published in two newspapers, the Long Beach Press-Telegram (English) and La Opinion (Spanish) one week in advance. Notices with the public hearing details were also mailed in both English and Spanish to residents in proximity to the Project Area (owners or occupants of properties to the south of East 68th Street, to the north of Artesia Boulevard, to the east of I-710, and to the west of the Union Pacific Railroad that runs between Cherry and Paramount Avenues). The public comment period was extended to 30 additional days to provide the public with additional time to comment on the environmental document following the public hearing. The environmental document was in circulation from December 17, 2020 to February 1, 2021, and then extended to March 1, 2021 for a total of 75 days.

The virtual public hearing was held through the Zoom meeting platform, with options to listen to the presentation in English and Spanish language translations. For those without internet

access, a call-in number was also provided with an option for a dedicated Spanish call-in number. The presentation was also translated into Spanish and is currently available on Metro's website: <a href="https://www.metro.net/projects/i-605-corridor-hot-spots-program/SR-91-early-action-projects/">https://www.metro.net/projects/i-605-corridor-hot-spots-program/SR-91-early-action-projects/</a>. Additionally, Metro's project website has been updated accordingly to include project materials, such as the fact sheet (in English and Spanish), the FAQ (in English and Spanish), and the presentation materials (English and Spanish). The presentation materials, and other project-related information can be found by expanding the sidebar menu on the right hand side of the webpage.

**Response IP-14-30:** The Project Development Team engaged the public in accordance with the requirements specified under CEQA and NEPA. Public hearings are encouraged, but not required as part of the IS/EA process. A "Notice of Opportunity" for a public hearing was used to satisfy the requirement for a hearing because the project is a safety project and does not require significant right of way, or substantial changes to the layout or function of connecting roadways. Additionally, although there is a circulation requirement for a 30-day comment period for an IS/EA under CEQA and NEPA, the comment period for this project was initially set for 45 days as a courtesy to account for the COVID-19 pandemic and the holiday season.

The project team did provide a public hearing and extend the public comment period once a formal request for a public hearing was submitted, in order to provide sufficient time for the community to review the environmental document and provide formal comments following the public hearing. The Environmental Document was in circulation for community feedback for a total of 75 days.

**Response IP-14-31:** The Initial Study (IS) with Mitigated Negative Declaration (MND) under CEQA, and Environmental Assessment (EA) with Finding of No Significant Impact (FONSI) under NEPA was prepared based on supporting technical studies that followed federal and state requirements. The IS with MND/EA with FONSI is being presented to decisionmakers so they can make decisions on the project.

The Project Development Team engaged the public in accordance with the requirements specified under CEQA and NEPA. In addition to the notices residents received during the public circulation period, the Notice of Availability was published in two local newspapers, the Long Beach Press-Telegram (English) and La Opinion (Spanish) when the public circulation period began, and a second round of newspaper ads were published when the circulation period was extended to provide additional details about the public hearing. Additionally, Metro's project website has been updated accordingly to include project materials, such as the fact sheet (in English and Spanish), the FAQ (in English and Spanish), and the presentation materials (English and Spanish). Throughout the project, there have also been ongoing interagency coordination meetings with the City of Long Beach and Gateway Cities Council of Governments. On December 16, 2020, a community meeting with the Hamilton Neighborhood Association was held at the request of Vice Mayor Rex Richardson to provide a project team members.

**Response IP-14-32:** The Initial Study/Environmental Assessment (IS/EA) was prepared based on technical studies conducted for the project, which followed state and federal requirements. Under CEQA, the IS concluded that the project had no impact, less than significant impact, or less than significant impact with mitigation incorporated to affected resources. After public circulation and consideration of public comments, the IS/EA was revised as needed. The conclusion that the project would not result in any significant impact to the environment was unchanged, so a Mitigated Negative Declaration (MND) was prepared and an Environmental Impact Report (EIR) was not required. Similarly, under NEPA, an EA was prepared. After public circulation and consideration of public comments, the IS/EA was revised as needed. Based on the revised EA, it was concluded that the project as a whole would not have a significant impact on the environment. Therefore, a Finding of No Significant Impact (FONSI) was prepared and an Environmental Impact Statement (EIS) was not required.

### Comment Letter IP-15: Flavia Davies, Interested Party, March 1, 2021

 From:
 Yanet D

 To:
 D07 Rte91 Atlantic to Cherry@DOT

 Subject:
 91 Freeway Extension.

 Date:
 Monday, March 1, 2021 8:10:57 PM

EXTERNAL EMAIL. Links/attachments may not be safe. To whom may concern.

I'm emailing you because I have some concerns regarding the freeway expansion. I live across from the 91 freeway and with this new construction, I am a bit worried about my daughters health. She is one year old and her lungs are just developing. I'm worried she will contract lung issues due to all the dust. My husband suffers also from dust and hay fever allergies. My worries are also if their will be lots of noise with construction in the middle of the night? I wakeup at 3:45am to get ready for work. I start at 5am. I'm curious to know if you guys will have a temporary wall to block the dust from the freeway? Can you help with anything else? I hear the cars in the freeway everyday! I know the machinery will be loud and taking the wall down the noise of the cars will be louder. We don't have double glazed windows! I have two seniors living with me too, which are my parents. I heard this might take up to two years!? Any kind of help will be offered to the people living across the 91 freeway?

Thank you,.

Sincerely

Flavia Davies.

**Response IP-15-1:** Your concerns are noted and are being considered. During construction, several measures will be in place to protect the community.

**Noise during and after construction:** During construction, the contractor is obligated to keep noise at 85dBA up to 50ft. The first order of work would be to complete the retaining wall and sound barrier before the roadway work starts. Additionally, measures AVM-NOI-1 through AVM-NOI-3 would be implemented to reduce impacts related to noise and vibration during construction. Particularly, under AVM-NOI-2 construction activities will comply with the Long Beach Municipal Code, which states that construction activities shall only occur on weekdays from 7am to 7pm, and on Saturdays from 9am to 6pm. Noise abatement is being considered at locations where the noise levels in the design-year are predicted to approach or exceed the noise abatement criterion at the specified land use (see Table 30 in Section 2.2.6 Noise and Vibration).

**Dust during construction:** Dust control measures will be implemented per SCAQMD fugitive dust which include street sweeping and water trucks (Measure PF-AQ-14 is a new measure that has been included as a project feature).

IP-15-1

**Air Quality during and after construction:** The Project will comply with construction standards adopted by the South Coast Air Quality Management District (SCAQMD) as well as Caltrans standardized procedures for minimizing air pollutants during construction. Caltrans is committed to the use of low-emission construction equipment and vehicles, which is anticipated to include equipment meeting the newer Tier 4 emission standards in the future. The project includes fourteen air quality measures (PF-AQ-1 through PF-AQ-14) to reduce and minimize construction related air quality effects to the community.

**Sound walls:** Along EB SR-91 and ramps within the project limits, existing sound wall heights vary from 10 feet to 14 feet along EB SR-91 and ramps within the project limits, and the proposed sound wall heights will vary from 12 feet to 14 feet. Sound wall heights were evaluated in 2-foot increments between the range of 8 feet and 16 feet for feasibility and reasonable allowances. For additional information describing how sound wall heights will be determined during final design, please refer to the Avoidance, Minimization, and/or Abatement Measures under Section 2.2.6 Noise and Vibration. Noise Studies and Caltrans Standards will determine required sound wall heights. The NADR recommends a height of 14ft for the noise barrier. The recommendation takes into account the Noise Study Report (NSR), geometric and safety standards.

**Schedule:** Construction of the entire project is anticipated to take 2 years. However, no consecutive ramps would be closed at the same time, with short term ramp closures expected to take approximately 55 hours to less than ten days at the SR-91/Atlantic Avenue EB off-ramp, SR-91/Atlantic Avenue EB on-ramp, and SR-91/Cherry Avenue EB off ramp. Long Term closure of the section connecting the SB I-710 and EB SR-91 connector to the Atlantic Avenue off-ramp is expected to take approximately 6 months. Additionally, to minimize noise impacts during construction, construction of the retaining wall and sound wall construction would be completed in four stages.

### Comment Letter IP-16: Kirk Davis, Interested Party, March 1, 2021

From:kirk davis <lionkirkd@gmail.com>Sent:Monday, March 1, 2021 9:58 PMTo:D07 Rte91 Atlantic to Cherry@DOTSubject:EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements ProjectAttachments:Good Evening My name is Kirk Davis and my family lives on the corner of 67th and Myrtle.pdf

EXTERNAL EMAIL. Links/attachments may not be safe.

Dear Mr Kosinski,

Attached is the text from my public hearing comments on February 18th

Regards, Kirk Davis Good Evening My name is Kirk Davis and my family lives on the corner of 67<sup>th</sup> and Myrtle, across the street from where the freeway will be widened almost 22ft, approx. 85 ft from the property line. The project report recognizes pollution emitted during construction, and future pollution on completion as having "no" or "less than significant" impact, so mitigation measures are not deemed necessary that will protect our community from the increase in noise, harmful dust, toxic waste, and pollution that will be produced during and after construction. Upon completion, pollution and traffic will steadily increase by 3% and 550 tons of additional GHG will be produced annually. Current air quality and community health burdens are not included in the report, but those numbers do have a significant impact and will increase because of this project.

The Hamilton Neighborhood also referred as Census Tract 6037570202 falls into many categories to address environmental justice, and health, environmental, and racial equity. According to CalEnviroScreen we are in the 98th percentile for Pollution Burden, 85<sup>th</sup> percentile for Population Characteristics, which are community characteristics that can result in increased vulnerability to pollution, and the 95<sup>th</sup> to 100<sup>th</sup> percentile for overall results. Our community is recognized as disadvantaged per AB 1550 and SB 535 because of the large amounts of pollution that affect us as seen on the CARB Priority Population Investments map. According to the Long Beach Health Dept 2019 Community Health Assessment, the 90805-zip code, which Hamilton is in, has the 2<sup>nd</sup> shortest life expectancy and 2<sup>nd</sup> highest numbers for hospitalizations for children with asthma in all of the Long Beach Zip Codes. Community health, and especially the welfare of people, their homes, and families should come first no matter the size of a project. Because of the existing pollution and health burdens carried by our diverse community, a full Environmental Impact Study should be done, or the No Build Option selected moving forward.

IP-16-1

**Response IP-16-1:** Thank you for your comments. The project team notes that the surrounding community is identified as a Disadvantaged Community, as defined by Senate Bill 535 and a Low-income Community defined by Assembly Bill 1550, which are specifically targeted for investment of proceeds from the State's cap-and-trade program.

The text of your comments made during the public hearing on February 18th have been noted for the record, and have been responded to in Comment Responses IP-11-1 through IP-11-6 and Table 43.

### Comment Letter IP-17: Kirk Davis, Interested Party, March 1, 2021

From: To: Subject: Date: <u>kirk davis</u> <u>D07 Rte91 Atlantic to Cherry@DOT</u> EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project Monday, March 1, 2021 10:05:43 PM

#### EXTERNAL EMAIL. Links/attachments may not be safe. March 1, 2021 Re: 07-LA-91 (PM R11.8/R13.2) Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement Project Dear: Mr. Ronald Kosinski, Deputy District Director As a resident living across the street from the proposed project, I am concerned about the increase in negative health impacts from the Eastbound SR-91 widening construction project file: 07-LA-91 (PM R11.8/R13.2). As a resident of the freeway adjacent Hamilton Neighborhood, my family already suffers from the existing high levels of pollution and its effects on overall health. I request Metro/CalTrans to include a full environmental impact report and implement mitigation measures to protect the health of the families living adjacent to the project site or select the "No Build" alternative. This Project will encourage more vehicle trips, and further pollute one of the most pollution-burdened communities in California. IP-17-1 The project already falls in the 99<sup>th</sup> percentile for overall pollution burden and 95 to 100<sup>th</sup> percentile for poor air quality in California. (https://oehha.ca.gov/calenviroscreen/report/draft-calenviroscreen-40). It is also in the 82<sup>nd</sup> percentile for PM2.5 emission and 83<sup>rd</sup> percentile for diesel PM in the state, and in the 98<sup>th</sup> percentile for PM2.5 and 90<sup>th</sup> percentile for diesel PM in the country. North Long Beach, in the 90805 zip code, has the 2<sup>nd</sup> shortest life expectancy and 2<sup>nd</sup> highest hospitalizations and ER visits for children under 18 of all Long Beach zip codes, according to the 2019 LBDHHS Community Health Assessment.

http://www.longbeach.gov/health/healthyliving/community/community-health-assessment/

The project area, census tract 6037570202, is within an underserved community of color, suffering from a myriad of health issues and inequities related to the environment in which they live. AB 1550 and SB 535 recognize the area as a disadvantaged and low-income environmental justice community, overburdened by pollution. This project will negatively affect the health of the Hamilton Neighborhood.

The CalTrans/Metro initial environmental study predicts the project will increase emissions for PM2.5, PM10, NOx, ROG and CO. According to the US EPA: Exposure to such particles can affect both your lungs and your heart. In addition, the noise and possible exposure to harmful substances, including toxic air pollutants, lead, and asbestos during construction will negatively affect the freeway adjacent neighborhood residents' health and well-being.

According to the Induced Travel Calculator, created by the National Center for

Sustainable Transportation at the University of California, Davis, this proposed 0.86 auxiliary lane will add an estimated <u>2.1 million vehicle miles traveled per year</u>. More vehicle miles traveled means more pollution from those vehicles. I request that Metro/CalTrans determine the "**No Build**" option to protect the health, safety, and quality life of the freeway adjacent Hamilton Neighborhood and North Long Beach community as a whole, focus highway investments on projects that will reduce vehicle trips, reduce pollution burden to freeway-adjacent communities, and reduce GHG emissions from the transportation sector in Los Angeles County. In the event the "**Build**" option is selected I demand Metro/CalTrans provide a full Environmental Impact Report and work with freeway adjacent residents to provide proper mitigation measures to protect their health, homes, and environment during construction and after project completion.

IP-17-1 (cont.)

Thank you again for your consideration. Sincerely, Kirk Davis 6691 Myrtle Ave **Response IP-17-1:** Thank you for your comments. Your comment has been noted for the record, and have been responded to in Comment Responses IP-11-1 through IP-11-6. Additionally, regarding your request for a full Environmental Impact Report (EIR): The Initial Study/Environmental Assessment (IS/EA) was prepared based on technical studies conducted for the project, which followed state and federal requirements. Under CEQA, the IS concluded that the project had no impact, less than significant impact, or less than significant impact with mitigation incorporated to affected resources. After public circulation and consideration of public comments, the IS/EA was revised as needed. The conclusion that the project would not result in any significant impact to the environment was unchanged, so a Mitigated Negative Declaration (MND) was prepared and an EIR was not required. Similarly, under NEPA, an EA was prepared. After public circulation and consideration of public comments, the IS/EA was revised EA, it was concluded that the project as a whole would not have a significant impact on the environment. Therefore, a Finding of No Significant Impact (FONSI) was prepared and an Environmental Impact Statement (EIS) was not required.

### Comment Letter IP-18: Kirk Davis, Interested Party, March 1, 2021

From:kirk davis <lionkirkd@gmail.com>Sent:Monday, March 1, 2021 9:45 PMTo:D07 Rte91 Atlantic to Cherry@DOTSubject:EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements ProjectAttachments:91 Petitions.pdf

EXTERNAL EMAIL. Links/attachments may not be safe.

Dear Mr Kosinski,

Please find the attached petitions (some in Spanish) signed by a majority of our neighbors from the Hamilton Neighborhood freeway adjacent homes and also other concerned residents from nearby neighborhoods.

IP-18-1

Regards, Kirk Davis and Hilda Gaytan 6691 Myrtle Ave 

 IP-18-2

 Re: 07-LA-91 (PM R11.8/R13.2)

 February 2021

 Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement project

Dear: Mr. Ronald Kosinski, Deputy District Director

Los residentes de Long Beach **exigimos que Metro/CalTrans hagan un reporte completo del impacto** en el ambiente (EIR) y desarrollen un plan de medidas de protección de la salud para las familias que viven en el área de este proyecto.

Nuestra comunidad sufre de una pobre calidad en el aire y tiene altos grados de problemas pulmonares y de salud. El studio inicial del proyecto predice un aumento en PM10, PM2.5. y otros contaminantes. La exposición a estas partículas y contaminantes afecta a la salud de los pulmones, Corazon y aumentar las posibilidades de contraer COVID19.

Este proyecto si no se planea correctamente afectara negativamente la salud de nuestra comunidad.

Al firmar este document pedimos que Metro/Caltran decida por la opción de No Construcción. Si se elije la opción de construcción, pedimos se incluya un reporte completo del ambiente (EIR) y Metro/CalTrans trabaje con las familias que viven en el area para establecer medidas que protejan la salud, y la calidad de vida de esta comunidad y de el medio ambiente.

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| Alejandra Garcia   |                 |
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| Montina & haves    | Matter 2        |
| Leonard Gonzales   | Level ALes      |

Re: 07-LA-91 (PM R11.8/R13.2) February 2021 Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement project (cont.)

Dear: Mr. Ronald Kosinski, Deputy District Director

Los residentes de Long Beach **exigimos que Metro/CalTrans hagan un reporte completo del impacto** en el ambiente (EIR) y desarrollen un plan de medidas de protección de la salud para las familias que viven en el área de este proyecto.

Nuestra comunidad sufre de una pobre calidad en el aire y tiene altos grados de problemas pulmonares y de salud. El studio inicial del proyecto predice un aumento en PM10, PM2.5. y otros contaminantes. La exposición a estas partículas y contaminantes afecta a la salud de los pulmones, Corazon y aumentar las posibilidades de contraer COVID19.

Este proyecto si no se planea correctamente afectara negativamente la salud de nuestra comunidad.

Al firmar este document pedimos que Metro/Caltran decida por la opción de No Construcción. Si se elije la opción de construcción, pedimos se incluya un reporte completo del ambiente (EIR) y Metro/CalTrans trabaje con las familias que viven en el area para establecer medidas que protejan la salud, y la calidad de vida de esta comunidad y de el medio ambiente.

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| Farming Kristine Lamirez | L.F.S               |
| Friting Espinoza         | plint               |
| Quadaloge Larg           | Guadalipe Larg      |

Re: 07-LA-91 (PM R11.8/R13.2) January 30, 2021 IP-18-2 (cont.)

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement project

Dear: Mr. Ronald Kosinski, Deputy District Director

The residents of Long Beach demand Metro/CalTrans to include a full Environmental Impact Report and implement mitigation measures to protect the health of the families living adjacent to the project site. The community already suffers from the worst air quality in the State and Nation and from a myriad of health issues and inequities related to the environment in which we live. The project study predicts an increase of PM2.5, PM10, Greenhouse Gas and other pollutants. Exposure to such particles can affect both an individual's lungs and heart, and increase the risk of dying from COVID-19. If this project is not planned correctly it will negatively affect the health of the community. We the undersigned request that Metro/Caltrans determine the "NO BUILD" option. But if the "BUILD" option moves forward; We ask Metro/CalTrans to include a full Environmental Impact Report and work with the affected community to implement mitigation measures to protect the health and environment of the families living adjacent to the project site.

Name Signature nte 501 GUP
Re: 07-LA-91 (PM R11.8/R13.2) January 30, 2021 IP-18-2 (cont.)

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement project

Dear: Mr. Ronald Kosinski, Deputy District Director

| Name                  | Signature             |
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| Melissa Lopez         | Miligra Soper         |
| James Castro          | James Cartro          |
| Nova alvatez          | Grou aling -          |
| Estala Brallana       | Bellen                |
| David Lapez           | Att.                  |
| Bruthe Jope           | Beathic loper         |

Re: 07-LA-91 (PM R11.8/R13.2) January 30, 2021 IP-18-2 (cont.)

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement project

Dear: Mr. Ronald Kosinski, Deputy District Director

| Name                        | Signature       |
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| Millicent B. Toursond       | Autrun Da       |
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Re: 07-LA-91 (PM R11.8/R13.2) January 30, 2021 IP-18-2 (cont.)

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement project

Dear: Mr. Ronald Kosinski, Deputy District Director

| Name                | Signature         |
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| Fernando Camilez    | faid the          |
| Hugo Gerugcio       | Thigs C. Dervacio |
| Silvia Genracie     | Lequia Deparo     |
| Mariah Gervacio     | Marido y Houario  |
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Re: 07-LA-91 (PM R11.8/R13.2)

IP-18-2

February 2021 (cont.)

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement project

Dear: Mr. Ronald Kosinski, Deputy District Director

Los residents de Long Beach **exijimos que Metro/CalTrans hagan un reporte completo del impacto** en el ambiente (EIR) y desarroyen un plan de medidas de proteccion para las familias que viven cerca del area del este projecto.

Nuestra comunidad sufre de una pobre qualidad de aire y tiene altos grados de problemas pulmonares y de salud. El studio del projecto predice un aumento en PM10, PM2.5. y otros contaminantes. La exposicion a estas particulas y contaminantes affecta la salud de los pulmones y Corazon de los individuos y aumenta el riesgo de contraer COVID 19.

Este projecto si no se planea correctamente afectara negativamente la salud de nuestra comunidad.

Al firmar este document pedimos que Metro/Caltrans desida por la opcion de No Construccion. Si se elije la opcion de construccion, pedimos se incluya un reporte completo del ambiente (EIR) y Metro/CalTrans trabaje con las familias que viven en el area para establecer medidas que protejan la salud, y la calidad de vida de esta comunidad y de el medio ambiente.

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Re: 07-LA-91 (PM R11.8/R13.2) January 30, 2021 IP-18-2 (cont.)

Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvement project

Dear: Mr. Ronald Kosinski, Deputy District Director

| Name                   | Signature     |
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**Response IP-18-1:** Thank you for your comment. The attached signatures in support of the No Build Alternative is noted for the record.

**Response IP-18-2:** The Initial Study/Environmental Assessment (IS/EA) was prepared based on technical studies conducted for the project, which followed state and federal requirements. Under CEQA, the IS concluded that the project had no impact, less than significant impact, or less than significant impact with mitigation incorporated to affected resources. After public circulation and consideration of public comments, the IS/EA was revised as needed. The conclusion that the project would not result in any significant impact to the environment was unchanged, so a Mitigated Negative Declaration (MND) was prepared and an Environmental Impact Report (EIR) was not required. Similarly, under NEPA, an EA was prepared. After public circulation and consideration of public comments, the IS/EA was revised as needed. Based on the revised EA, it was concluded that the project as a whole would not have a significant impact on the environment. Therefore, a Finding of No Significant Impact (FONSI) was prepared and an Environmental Impact Statement (EIS) was not required.

During construction, the Project will incorporate measures that will minimize construction impacts to the community. Please refer to Appendix A - Avoidance, Minimization and/or Mitigation Summary for the Environmental Commitments Record. During construction, environmental and construction/engineering staff will ensure that the commitments contained in the Environmental Commitments Record (ECR) are fulfilled.

The list of signatures in support for the No Build Alternative is noted for the record.

## Comment Letter IP-19: Kirk Davis, Interested Party, March 1, 2021

From: kirk davis <lionkirkd@gmail.com>
Sent: Monday, March 1, 2021 6:37 PM
To: D07 Rte91 Atlantic to Cherry@DOT <D07.91AtlanticToCherry@dot.ca.gov>
Subject: EB SR-91/Atlantic to Cherry Ave Auxiliary Improvements Project

EXTERNAL EMAIL. Links/attachments may not be safe.

Dear Mr Kosinski,

My concerns deal with how overall community health is not a consideration in the denial or approval of the project. With equity becoming a driving force in policy and decision-making, this project should be viewed through the many lenses that pertain to the diversity, health, and environment of this community.

The project area (Hamilton Neighborhood), in the 90805 zip code, is health impacted according to the LBDHHS 2019 Community Health Assessment.

http://www.longbeach.gov/health/healthy-living/community/community-health-assessment/

It is a community with some of the highest unhealthful air quality in the state and nation, the  $2^{nd}$  lowest life expectancy and  $2^{nd}$  highest rates of hospitalization for children with asthma in all of the Long Beach zip codes.

Adding more vehicles and pollution to the area, along with the impact of two years of construction, will be a detriment to the overall health, well-being, and way of life to residents of the neighboring homes and beyond.

I request Metro/CalTrans to select the "NO BUILD" option, because it foresees no significant change to what already exists. I am opposed to the "BUILD" option, because the report projects vehicle and pollution numbers are going to steadily increase, not decrease. The two years of construction will also contribute to pollution and disruption in the neighborhood. If

IP-19-3

IP-19-1

IP-19-2

| the project is approved, what protections will be provided for the health and well being community during construction and after completion?              | ; of the IP-19-3<br>Cont. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| If the project does move forward, an initial request is for Caltrans/Metro to provide:                                                                    | l I                       |
| 1. Grants for new windows and/or soundproofing window inserts for freeway adjacent to help cut down on the noise                                          | homes IP-19-4             |
| 2. Tall, temporary barriers to offer a level of protection for the freeway adjacent homes the construction, to reduce freeway/construction noise and dust | during                    |
| 3. Commercial grade air purifiers for the neighboring homes                                                                                               |                           |
|                                                                                                                                                           | -                         |

Regards,

Kirk Davis

Hamilton Neighborhood Resident corner of Myrtle and 67th

Past Co-Chair Coalition for a Healthy North Long Beach

**Response IP-19-1:** Comment has been responded to and addressed above in Response IP-11-3.

**Response IP-19-2:** Please refer to Response IP-11-4 above.

**Response IP-19-3:** Your support for the No Build Alternative is noted. The process used to evaluate each alternative and identify the preferred alternative for the project is described in Section 1.5.2, Identification of the Preferred Alternative, on page 26 in the Final Initial Study with Mitigated Negative Declaration/Environmental Assessment with Finding of No Significant Impact. As discussed in that section, the Build Alternative was identified as the preferred alternative.

Please refer to Appendix A - Avoidance, Minimization and/or Mitigation Summary for the list of measures included in the Environmental Commitments Record. Project avoidance, minimization, and /or mitigation measures include, but are not limited to Air Quality, Noise, Hazardous Waste/Materials measures.

**Response IP-19-4:** Thank you for your suggestions. Caltrans and Metro has reviewed these suggestions and based on the feasibility and reasonableness of the requests, developed a list of additional measures that will minimize construction impacts to the community. A response to the request for additional measures has-been responded to in Response IP-11-6.

#### Comment Letter IP-20: Hilda Gaytan, Interested Party, March 1, 2021

#### Re: Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project

Sent via E-mail March 1, 2021 Ronald Kosinski Deputy District Director Caltrans District 7 Division of Environmental Planning 100 South Main Street, MS-16A Los Angeles, CA 90012 D07.91AtlanticToCherry@dot.ca.gov

#### Re: Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project

My name is Hilda Gaytan and I am concerned about the increase in negative health impacts from the Eastbound SR-91 widening construction project file: 07-LA-91 (PM R11.8/R13.2). As a resident of the freeway adjacent Hamilton Neighborhood, my family already suffers from the existing high levels of pollution and its effects on overall health. I request Metro/CalTrans to include a full environmental impact report and implement mitigation measures to protect the health of the families living adjacent to the project site or select the "**No Build**" alternative.

This Project will encourage more vehicle trips, and further pollute one of the most pollution-burdened communities in California.

The project already falls in the 99<sup>th</sup> percentile for overall pollution burden and 95 to 100<sup>th</sup> percentile for poor air quality in California. (<u>https://oehha.ca.gov/calenviroscreen/report/draft-calenviroscreen-40</u>). It is also in the  $82^{nd}$  percentile for PM2.5 emission and  $83^{rd}$  percentile for diesel PM in the state, and in the 98<sup>th</sup> percentile for PM2.5 and 90<sup>th</sup> percentile for diesel PM in the country.

IP-20-1

North Long Beach, in the 90805 zip code, has the 2<sup>nd</sup> shortest life expectancy and 2<sup>nd</sup> highest hospitalizations and ER visits for children under 18 of all Long Beach zip codes, according to the 2019 LBDHHS Community Health

Assessment. <a href="http://www.longbeach.gov/health/healthyliving/community/community/health-assessment/">http://www.longbeach.gov/health/healthyliving/community/community/health-assessment/</a>

The project area, census tract 6037570202, is within an underserved community of color, suffering from a myriad of health issues and inequities related to the environment in which they live. AB 1550 and SB 535 recognize the area as a disadvantaged and low-income environmental justice community, overburdened by pollution. This project will negatively affect the health of the Hamilton Neighborhood.

The CalTrans/Metro initial environmental study predicts the project will increase emissions for PM2.5, PM10, NOx, ROG and CO. According to the US EPA: Exposure to such particles can affect both your lungs and your heart. In addition, the noise and possible exposure to harmful substances, including toxic air pollutants, lead, and asbestos during construction will negatively affect the freeway adjacent neighborhood residents' health and well-being.

According to the Induced Travel Calculator, created by the National Center for Sustainable Transportation at the University of California, Davis, this proposed 0.86 auxiliary lane will add an estimated <u>2.1 million</u> <u>vehicle miles traveled per year</u>. More vehicle miles traveled means more pollution from those vehicles.

I request Metro/CalTrans to include a full Environmental Impact Report and work with (us) freeway adjacent residents to provide proper mitigation measures to protect our health, homes, and environment during construction and after project completion or select the "**No Build**" alternative. I ask Metro/CalTrans to protect the health, safety, and quality life of the freeway adjacent Hamilton

#### Re: Eastbound State Route 91/Atlantic Avenue to Cherry Avenue Auxiliary Lane Improvements Project

Neighborhood and North Long Beach community as a whole, focus highway investments on projects that will reduce vehicle trips, reduce pollution burden to freeway-adjacent communities, and reduce GHG emissions from the transportation sector in Los Angeles County. In addition, Caltrans and Metro should make sure this project will not adversely impact the plans for the Hamilton Loop greenbelt through removing the presenv right of way property or allowing.

Hamilton Loop greenbelt through removing the necessary right of way property or allowing contamination or other impacts that would make the greenbelt less desirable or feasible.

Hilda Gaytan 6691 Myrtle Ave Long Beach CA 90805 562-980-6203

**Response IP-20-1:** Thank you for your comments. Your comment has been noted for the record, and have been responded to in Comment Responses IP-11-1 through IP-11-6.

IP-20-1 (cont.)

## Comment Letter IP-21: Carlos Ovalle, Interested Party, March 2, 2021

From: To: Subject: Date: <u>Carlos Ovalle</u> <u>D07 Rte91 Atlantic to Cherry@DOT</u> Oppose widening Tuesday, March 2, 2021 12:00:19 AM

**EXTERNAL EMAIL.** Links/attachments may not be safe. I oppose any widening. This is an injustice to the people. Carlos Ovalle, long Beach, CA

Sent from Gmail Mobile

IP-21-1

Response IP-21-1: Your support for the No Build Alternative is noted for the record.

## Verbal and Written Comments from February 18, 2021 Public Hearing

Following the public hearing presentation, attendees were given an opportunity to ask questions and provide formal comments on the Draft Environmental Document. Verbal comments received during the public hearing are organized below in **Table 43**. Verbal comments are those that were either read out loud by the respective commenter, or were entered through the Question and Answer or Chat tool through the Zoom platform and read out loud by a member of the Project team during the Public Hearing. Each comment includes a comment response number, the name of the commenter, the comment, and the Project team's response to the comment. Written comments were also submitted through the Zoom meeting but were not formally read out loud. Written comments received during the public hearing are listed in **Table 44** and includes a comment response number, name of the comment, and the Project team's response to the comment. The comments in **Table 43** and **Table 44** appear as entered by the participant in the Question and Answer toolbox.

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| Table 43: Verba | Comments | from the | Februarv | 18. 2021 | Public Hearing |
|-----------------|----------|----------|----------|----------|----------------|
|                 | •••••••  |          |          | ,        |                |

| Comment<br>Number | Name                  | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                         |
|-------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHV-1-1           | Renette Mazza         | My name is Renette Mazza. I'd like to thank everybody for putting this together. We really appreciate all the collaboration that's gone on for at least the last seven to five years, and even with all the agencies. I want to thank you first of all.                                                                                                                                                                                                                                               | Thank you for your comments. Your<br>As stated in the public hearing, there                                                                                                                             |
|                   |                       | Second of all, I have three questions. Actually, one of them has already been answered with the construction link. Will the bridges I know the bridges will be bigger. Will they need posts? Right now, there's no posts to support the bridges. Will they need posts since you are going to add a lane at the Walnut and the Myrtle section?                                                                                                                                                         | any columns.                                                                                                                                                                                            |
| PHV-1-2           | Renette Mazza         | I have a few questions from community members excited to see a new sound wall,<br>because the one that is there now is sort of dilapidated. They would like to know if the<br>sound wall is also going to be built on the other side to match the sound wall on the<br>eastbound sound where you guys are rebuilding the aux lane.                                                                                                                                                                    | As answered during the public hear<br>project only includes improvements<br>interchange connector to SR-91 to 0                                                                                         |
| PHV-1-3           | Renette Mazza         | So no building on that other side at all?                                                                                                                                                                                                                                                                                                                                                                                                                                                             | That is correct. The EB SR-91 Atlan<br>improvements on the eastbound sid<br>of SR-91 are included with this proje                                                                                       |
| PHV-1-4           | PHV-1-4 Renette Mazza | Again, I want to thank you guys. We are excited about the Hamilton Loop being part of this project, and we appreciate the collaboration. We fully support the project, Hamilton Neighborhood Association, along with many neighbors. We fully support the project.                                                                                                                                                                                                                                    | Thank you for your feedback. Your record. Though the Hamilton Loop Beach, some of the project improv                                                                                                    |
|                   |                       | And I guess when you look at the whole picture, it's beneficial in all areas we believe.<br>Thank you again, and I appreciate the time you took to listen.                                                                                                                                                                                                                                                                                                                                            | Avenue project were developed with                                                                                                                                                                      |
| PHV-2-1           | Leonard Don Juan      | Well, I'd like to start by saying that this is a great project. I'm happy you guys are expanding. I have been part of the traffic, and I know and I understand that it needs to be expanded. My main concern is I suffer from asthma. I do live in the neighborhood right next to the freeway. I work on the west side.                                                                                                                                                                               | Your support for the Build Alternativ<br>Please refer to Appendix A - Avoida<br>complete list of measures. These m                                                                                      |
|                   |                       | I remember when they were expanding the 405 freeway, they erected these inflatable walls to prevent all the dust and, you know, contaminants that come out of the demo section of it, and building, and you know, the whole cement mixing and everything, and the trucks coming in and out.                                                                                                                                                                                                           | anticipated to include equipment me<br>(see also AVM-EN-4); the project in<br>PF-AQ-14) to reduce and minimize<br>and include implementation of dust                                                    |
|                   |                       | In order to not affect the community, they erected these huge walls that were inflatable and did all this other mitigation, remedied things to not affect the west side community. I do not see any of those plans within the proposal here. And as a resident who has children and living next to it, and suffering from asthma how are you are planning to, you know, help us?                                                                                                                      | Project will include CO2 sequester<br>emissions (AVM-VIS-2).                                                                                                                                            |
| PHV-2-2           | Leonard Don Juan      | When the gentleman earlier said this will not impact the community, I would like to disagree with that statement. I would like for him to cite any studies or any science behind that statement. Two years of my life being affected by construction, noise, dust, pollution, extra pollution by the machines, et cetera I have had a renovation in my house, and I can tell you, it's not a clean situation. I can only imagine what a freeway construction will be as far as dust and other things. | Thank you for your comment. A list<br>included in the IS/EA, following Cha<br>to support the findings provided in th<br>Additionally, as stated at the hearing<br>provided that there would be constru- |
|                   |                       | I can tell you, when I had the renovation of my house, I had to move out because of my asthma. So I'm concerned about two and a half years of this construction going on next to                                                                                                                                                                                                                                                                                                                      | about the noise, dust, and pollution<br>PHV-2-1 above.                                                                                                                                                  |

#### Response

support for the project is noted for the record.

e will not be any columns on the Walnut and Myrtle are single span bridges, and therefore will not require

ing, the EB SR-91 Atlantic Avenue to Cherry Avenue and soundwalls along eastbound SR-91 from the I-710 Cherry Avenue.

ntic Avenue to Cherry Avenue project only includes de of SR-91. No improvements on the westbound side ect.

support for the Build Alternative has been noted for the Project is a separate project under the City of Long ments for the EB SR-91 Atlantic Avenue to Cherry the Hamilton Loop project in mind.

ve has been noted for the record.

nce, Minimization, and/or Mitigation Summary for the easures include, but are not limited to: Caltrans being on construction equipment and vehicles, which is eeting the newer Tier 4 emission standards in the future cludes fourteen air quality measures (PF-AQ-1 through construction related air quality effects to the community control measures per SCAQMD fugitive dust; and the g landscape concepts to help contain/reduce CO2

of 16 technical studies prepared for this project is apter 6. The results of the technical studies were used he IS/EA.

g in response to this comment, clarification was uction impacts for this project but that several ze impact to the community. Regarding your concerns during construction, please see Comment Response

| Comment<br>Number | Name         | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |              | my home without plans and mitigation details that would tell me how you are protecting my health and that of my children.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PHV-3-1           | Kirk Davis   | Good evening. My name is Kirk Davis, and my family lives on the corner of 67th and Myrtle across the street from where the freeway will be widened almost 22 feet, that will be approximately 85 feet from my property line. The project report recognizes pollution emitted during construction and future pollution upon completion as having no or less than significant impact; so mitigation measures are not being necessary that will protect our community from the increase of noise, harmful dust, toxic waste, and pollution that will produced during and after construction. Upon completion, pollution and traffic will steadily increase by 3 percent and 550 tons of greenhouse gas will be produced annually. Current air quality community health burdens are not included in the report, but those numbers do have a significant impact and will increase because of this project.                                                                                                                                                                                                                                                                                                                                                                            | Thank you for your comments. Your v<br>February 18th have been noted for th<br>contained the same content as the w<br>to in Comment Responses IP-11-2 th                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                   |              | The Hamilton Neighborhood Census Track 6037570202 falls into many categories to address environmental justices and health, environmental, and racial equity. According to CalEnviroScreen, we are in the 98th percentile for pollution burden, 85th percentile for population characteristics that can result in increased vulnerability to pollution, and the 95th to 100th-percentile overall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   |              | Our community is recognized as disadvantaged per AB 1550 and SB 535 because of the large amounts of pollution that affect us, as seen on the Car Priority Population Investment Map. According to the Long Beach Health Department's 2019 Community Health Assessment, the 90805 zip code, which Hamilton is in, has the second shortest life expectancy, and second highest numbers for hospitalizations for children with asthma in all of the Long Beach zip codes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   |              | Community health, and especially the welfare of people and homes and families, should come first no matter what size of the project. Because of the existing pollution and health burden carried by our diverse community, the to-build option needs a full environmental impact study and mitigation measures in place to protect our health if it goes forward, or choose the no-build options. Thank you.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PHV-4-1           | Hilda Gaytan | First of all, I want to thank you for what you did. It's really amazing, guys. What I want to tell you is I'm I don't have too much to say because Kirk and somebody else in the community already expressed my concern. But still, I would like to know how you come out with so many what I see in the project is a lot of uncertainty in the construction period. It is something that you don't know if it's going to be lead or asbestos, and that raises my concern for my family. So besides all the mitigations, I believe Leonard asked for it, or the community has been asking for them, I would like to know if we can create because I want the same as Kirk. I want a full environmental report. But if the project moves forward, I would like to create maybe a committee where you guys and the community can work together to protect the health of our people, of our families, of our children. I have been working the neighborhood and letting them know about this meeting. I saw a lot of people sick. The COVID has devastated this community. You should take all this into consideration. About the Hamilton Loop, I know that you have a contact already with the City that you are going to leave here is going to be clean so the County can build | Thank you for your comment. Your contract the record.<br><b>Uncertainty with construction:</b> Dure protect the community. Please refer to Mitigation Summary for the Environment of the Environment of the Environment of the impacts to the community including by Campaign would include procedures and other construction-related activities public to report concerns. In addition, motorists, pedestrians, and bicyclists hours. Under PF-COM-3, a Construct hazards on the roadways for bicyclist routes, wayfinding and warning signat the community is important to us and |

Response

verbal comments made during the public hearing on he record, and since the verbal comments made vritten comments received, they have been responded hrough IP-11-6 above.

concerns for the Build Alternative has been noted for

ring construction, several measures will be in place to to Appendix A - Avoidance, Minimization and/or mental Commitments Record (ECR), including -3. Under PF-COM-2, a Public Awareness Campaign - Transportation Management Plan to address access bicyclists and pedestrians. The Public Awareness s for notifying the public of road closures, noise, dust, ties and would include a telephone hotline for the n, the Public Awareness Campaign would encourage s to take alternate routes or travel outside road closure ction Staging Plan would be implemented to minimize sts and pedestrians, and may include temporary detour age, barriers, and protective fencing. Coordination with d issues that arise will be addressed in a timely

| Comment<br>Number | Name                | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                     | on clean soil. I don't want you to leave contaminated soil that eventually we are not going to be able to use, or if we use it, it will be a risk for the Hamilton people in the area.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | manner. Additionally, per AVM-NOI-<br>feet of the Project boundary will be s<br>of construction of each phase, regard<br>All notices and signs will indicate the<br>as provide a contact name and a tele<br>construction process and register co                                                                                                                                                                                                                                                                                      |
|                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Clean soil/lead and asbestos: The<br>requirements in the handling, testing<br>to prevent any exposure to the reside<br>AVM-HW-2 and AVM-HW-3 in Appe<br>investigation for aerial deposits of lea<br>conducted to the maximum lateral ar<br>unpaved areas, including roadway in<br>overhead signs and traffic signs. Add<br>Containing Material (ACM) and Lead<br>the four bridges, retaining walls, and<br>structures within the Project Area. Th<br>remediation be determined necessar                                               |
|                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Environmental report: The Initial S<br>based on technical studies conducter<br>requirements. Under CEQA, the IS of<br>significant impact, or less than signific<br>resources. After public circulation and<br>revised as needed. The conclusion to<br>impact to the environment was unch<br>was prepared and an Environmental<br>under NEPA, an EA was prepared. A<br>comments, the IS/EA was revised as<br>that the project as a whole would not<br>Therefore, a Finding of No Significant<br>Impact Statement (EIS) was not require |
| PHV-5-1           | Elsa Tung (she/her) | So does the project ADD one whole lane to the 91 freeway?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | As answered in the public hearing, the safety project to enhance operate and includes the addition of a 0.86-meta capacity increasing project and will meta-                                                                                                                                                                                                                                                                                                                                                                          |
| PHV-5-2           | Elsa Tung (she/her) | What is the total (monetary) cost of this project? What are the sources of funding?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | The total project cost is estimated to (SB 1) Trade Corridor Enhancement (\$7.5 mil), local funding (\$31 mil) and                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PHV-6-1           | Julie Willett       | The Noise Study Report (NSR) and a Noise Abatement Decision Report (NADR) were<br>prepared for the Project. Potential abatement measures must be considered when it is<br>determined that the project will result in noise impacts, and where noise impacts are<br>predicted in areas of frequent human use that would benefit from a lowered noise level.<br>Noise abatement measures that are determined to be reasonable and feasible at the time<br>of final design are then incorporated into the project's plans and specifications. During<br>operation of the project, noise abatement is being considered at locations where the noise | The Noise Study Report (NSR) and a<br>prepared for the Project. Potential at<br>determined that the project will result<br>predicted in areas of frequent human<br>Noise abatement measures that are<br>of final design are then incorporated<br>abatement is being considered at loc                                                                                                                                                                                                                                                 |

#### Response

2, property owners and occupants located within 200 sent a notice, at least 15 days prior to commencement ding the construction schedule of the proposed project. e dates and duration of construction activities, as well ephone number where residents can inquire about the mplaints.

project will comply with all federal, state and local and disposing of any potentially hazardous materials ents and the community. Additionally, please refer to ndix A. During the design phase, a soil site ad (ADL) and organochlorine pesticides would be nd vertical extent of proposed soil excavation for all nprovements, retaining walls and soundwalls, ditionally, during the design phase, Asbestos-Based Paint (LBP) surveys would be conducted for soundwalls connected to retaining walls or other he ECR would be updated accordingly, should any ry following the site investigation.

tudy/Environmental Assessment (IS/EA) was prepared ed for the project, which followed state and federal concluded that the project had no impact, less than icant impact with mitigation incorporated to affected d consideration of public comments, the IS/EA was hat the project would not result in any significant anged, so a Mitigated Negative Declaration (MND) Impact Report (EIR) was not required. Similarly, After public circulation and consideration of public s needed. Based on the revised EA, it was concluded t have a significant impact on the environment. nt Impact (FONSI) was prepared and an Environmental uired.

he EB SR-91 Atlantic Avenue to Cherry Avenue project tional safety conditions along the mainline and ramps nile auxiliary lane on EB SR-91. This project is not a not be adding a through-lane on SR-91.

be \$95 million. The funding sources are Senate Bill 1 Program (TCEP) federal funds (\$48 mil), Measure R d other undefined funding.

a Noise Abatement Decision Report (NADR) were patement measures must be considered when it is t in noise impacts, and where noise impacts are n use that would benefit from a lowered noise level. determined to be reasonable and feasible at the time into the project's plans and specifications. Noise cations where the noise levels in the design-year are

| Comment<br>Number | Name | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |      | levels in the design-year are predicted to approach or exceed the noise abatement criterion at the specified land use (see Table 30 in Section 2.2.6 Noise and Vibration).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | predicted to approach or exceed the (see Table 30 in Section 2.2.6 Noise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                   |      | Along WB SR-91, the traffic noise modeling results indicate that future traffic noise levels at the respective land uses are predicted to range from 60 to 72 dBA Leq(h) in the design-<br>year (2045), where noise levels are predicted to approach or exceed the Noise Abatement Criteria (NAC) at residences (67 dBA Leq[h]). However, where the data shows that the NAC could approach or exceed the NAC, the existing conditions already approach or exceed the NAC; that is, the predicted future noise levels would not see any increase in dBA from existing conditions. Additionally, where the modeling results indicate a 2 dBA increase in noise between existing conditions and the design-year, the dBA increase was modeled at a receptor location that is not expected to approach or exceed the NAC. Four barriers along WB SR-91 were evaluated at heights ranging from 8 to 16 feet in 2-foot increments. However, none of the barriers evaluated in this area would achieve the minimum noise reduction of 5 dB at the critical receptors to be considered acoustically feasible.<br>Along EB SR-91, the traffic noise modeling results also indicate that traffic noise levels at the land uses are predicted to range from 59 to 72 dBA Leq(h) in the design-year, where noise levels at the land uses are predicted to approach or exceed the NAC at residences (67 dBA Leq[h]).                                                                                                                                                                                                                                                             | Along EB SR-91, the traffic noise mo<br>the land uses are predicted to range<br>noise levels are predicted to approace<br>Leq[h]). The interior noise level at the<br>49 dBA Leq(h), and 51 dBA Leq(h) a<br>year noise level does not approach of<br>interior traffic noise impacts are pred<br>increase in noise up to a 13 dBA; an<br>that approach or exceed the NAC for<br>was considered in the Project Study<br>As part of the NSR and NADR, detail<br>located at the edge of the shoulder a<br>SR-91, was considered to be reason<br>the edge of the freeway from approx<br>corner of 67th Street and Millmark A<br>the existing sound wall on the Chern                                                                                                                        |
|                   |      | The interior noise level at the school in the design year is therefore predicted to be 49 dBA Leq(h), and 51 dBA Leq(h) at the place of worship. Because this predicted design-year noise level does not approach or exceed the interior NAC of 52 dBA Leq(h), no interior traffic noise impacts are predicted. One modeled location is predicted to see an increase in noise up to a 13 dBA; and a few other locations are predicted to see increases that approach or exceed the designated land use. Therefore, noise abatement was considered in the Project Study Area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | minimum noise reduction to be cons<br>noise barrier, EXB-4. This noise barrier<br>noise reduction at one or more bene<br>length of approximately 4,864 feet. Of<br>that a 14-foot barrier would reduce noise levels by 5 to 14 dBA.<br>reductions at each of the locations the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                   |      | As part of the NSR and NADR, detailed modeling analysis was conducted for two barriers located at the edge of the shoulder along EB SR-91 . A 14 foot sound wall BA-4, along EB SR-91, was considered to be reasonable and feasible. The barrier would be constructed on the edge of the freeway from approximately the edge of the existing retaining wall at the corner of 67th Street and Millmark Avenue on the Atlantic Avenue on-ramp to the vicinity of the existing sound wall on the Cherry Avenue off-ramp. Barrier BA-4 would achieve the minimum noise reduction to be considered acoustically feasible and would replace existing noise barrier, EXB-4. This noise barrier would also meet the Caltrans design goal of 7 dB noise reduction at one or more benefited receivers for all evaluated wall heights, with a length of approximately 4,864 feet. Calculations based on preliminary design data show that a 14-foot barrier would reduce noise levels by 5 to 13 dBA, and a 16-foot barrier would reduce noise levels by 5 to 13 dBA, and a 16-foot barrier would reduce noise levels by 5 to 13 dBA. The section at approach or exceed the NAC; the predicted noise levels with BA-4 would either be reduced to the same decibel as existing conditions or lower than existing conditions. Please refer to Section 2.26, Figure 15, Noise and Vibration of the environmental document. Additionally, the Project Team evaluated extending the noise barrier at the Atlantic Avenue on-ramp and Cherry Avenue off-ramp to provide residents above and beyond the coverage/recommendation noted in the NSR and NADR. In addition to the NSR and | approach or exceed the NAC; the pri-<br>to the same decibel as existing cond-<br>mitigate the noise impact to less than<br>Figure 15, Noise and Vibration of the<br>Evaluation - CEQA Significance Dete<br>Additionally, the Project Team evalua<br>on-ramp and Cherry Avenue off-ram<br>coverage/recommendation noted in to<br>NADR, the evaluation to determine to<br>consideration design standards and<br>thresholds for making a wall feasible<br>readings and noise modeling, extend<br>(Atlantic Avenue on-ramp and Cherr<br>1 decibel of improvement at those pa<br>Noise Analysis Protocol, abatement<br>decibel noise reduction at impacted<br>acoustically feasible; therefore, exter<br>meet the criteria for being acoustical<br>part of this project. The lack of decibe |
|                   |      | NADR, the evaluation to determine the lengths of the walls and feasibility took into                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

#### Response

noise abatement criterion at the specified land use and Vibration).

odeling results also indicate that traffic noise levels at from 59 to 72 dBA Leq(h) in the design-year, where ch or exceed the NAC at residences (67 dBA e school in the design year is therefore predicted to be at the place of worship. Because this predicted designor exceed the interior NAC of 52 dBA Leq(h), no licted. One modeled location is predicted to see an d a few other locations are predicted to see increases r the designated land use. Therefore, noise abatement Area.

iled modeling analysis was conducted for two barriers along EB SR-91 . A 14 foot sound wall BA-4, along EB hable and feasible. The barrier would be constructed on imately the edge of the existing retaining wall at the venue on the Atlantic Avenue on-ramp to the vicinity of y Avenue off-ramp. Barrier BA-4 would achieve the idered acoustically feasible and would replace existing rier would also meet the Caltrans design goal of 7 dB fited receivers for all evaluated wall heights, with a Calculations based on preliminary design data show noise levels by 5 to 13 dBA, and a 16-foot barrier would Implementation of BA-4 would result in noise nat are predicted to see an increase in noise that edicted noise levels with BA-4 would either be reduced litions or lower than existing conditions and would n significant under CEQA. Please refer to Section 2.26, e environmental document, and Chapter 3, CEQA ermination for Noise.

ated extending the noise barrier at the Atlantic Avenue p to provide residents above and beyond the the NSR and NADR. In addition to the NSR and he lengths of the walls and feasibility took into safety, as well as FHWA and Caltrans criteria and e. After taking into account the noise measurement ding the wall lengths in these particular locations y Avenue off-ramp) would result in a gain of less than articular locations According to the Caltrans Traffic measures such as noise barriers, must achieve a 5 receptor locations in order to be considered nding the noise barrier at these locations would not lly feasible and reasonable and will not be included as el improvement in this area is also due to the existing

| Comment<br>Number | Name            | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                 | consideration design standards and safety, as well as FHWA and Caltrans criteria and thresholds for making a wall feasible. After taking into account the noise measurement readings and noise modeling, extending the wall lengths in these particular locations (Atlantic Avenue on-ramp and Cherry Avenue off-ramp) would result in a gain of less than 1 decibel of improvement at those particular locations. The lack of decibel improvement is also due to the existing sound wall along the SR-91 mainline which currently mitigates most of the noise in this area. Therefore, the extension of these walls is not warranted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | sound wall along the SR-91 mainline area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PHV-7-1           | Patricia        | Okay. I have three questions. I have lived on the corner of 68th and Olive for 42 years. My questions are how would this impact 68th Street? Right now, whenever there is a car accident or construction or anything going on the 91, 68th Street and the residential streets are used as a detour and we get heavy traffic on 68th Street. The second question is how can we obtain or when will there be a picture to clearly show the revisions of the landscape? And number three, will there be landscape revisions Penfold?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Thank you for your comments.<br>(1) 68th Street and Olive Avenue are<br>side of SR-91. The EB SR-91 Atlanti<br>improvements in this area. The traffic<br>(2) Vegetation and landscaping will be<br>landscape design will be developed of<br>continuing coordination with the City<br>That coordination will include informi<br>Atlantic Avenue to Cherry Avenue pr<br>(3) No landscape revisions on Penfo<br>adjacent to the westbound SR-91 free<br>improvement on the westbound SR-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PHV-8-1           | Marlin Dawoljee | Good evening, everyone. Thank you so much for hosting this space to hear out our community. My name is Marlin Dawoljee, and I work with the Long Beach Alliance for Children with Asthma. So we work with families who have children with asthma, and we give them education to better help with their asthma management on both indoor and outdoor pollutants. So when we are discussing this project, it really is crucial to discuss the health and community impacts. So adding lanes could increase diesel traffic in the area. And these areas already have high levels of existing air pollution. I know it was mentioned it was not a significant increase, but any increase is significant to these communities because they're already heavily burdened. I know the purpose of this project is to address the accident rate, but it also should be addressed without turning a blind eye to the asthma rates in this area. Like Kirk mentioned earlier, in 2019, this North Long Beach area was identified as the second highest pediatric hospitalization rates due to asthma. In our program, we receive a lot of referrals from North Long Beach; so this community really is in high need of assistance with their air quality. | Thank you for your comment. Your of<br>SR-91 Atlantic Avenue to Cherry Ave<br>includes the addition of a 0.86-mile at<br>through-lane to EB SR-91.<br>The project would include operational<br>significant increases in overall traffic<br>Eastbound Segment Traffic Average<br>24 Comparison of Eastbound Segme<br>2045. A review of average daily traffi<br>(2024) and Design Year (2045) show<br>increases in overall traffic or truck vo<br>Opening Year (2024) compared to th<br>from 0% to 3% for all project segmer<br>Conditions shows a similar increase<br>The proposed Build Alternative would<br>Please refer to Appendix A - Avoidar<br>complete list of measures. These me<br>committed to the use of low-emission<br>anticipated to include equipment me<br>(see also AVM-EN-4); the project inco<br>PF-AQ-14) to reduce and minimize of<br>and include implementation of dust of<br>Project will include CO2 sequestering<br>emissions (AVM-VIS-2). |

#### Response

which currently mitigates most of the noise in this

located north of SR-91 adjacent to the eastbound ic Avenue to Cherry Avenue project does not include c detour would be for local traffic only south of SR-91.

be included as part of the project. The during final design and will also depend on the of Long Beach on the City's Hamilton Loop Project. ing the residents of the progress of the EB SR-91 roject and the landscape designs.

old are included with this project as Penfold St. is eeway and the project does not propose any 91.

concerns are noted and are being addressed. The EB enue project is an operational safety project and auxiliary lane on EB SR-91. This project is not adding a

al improvements to SR-91 and would not result in or truck volumes. See Table 22 Comparison of Daily Traffic Volumes-Opening Year 2024 and Table ent Traffic Average Daily Traffic Volumes-Design Year ic and truck volumes for the No Build, Opening Year w that the project would not result in significant blumes. Average daily traffic and truck volumes for ne No Build Condition show an increase in truck traffic nts. For Design Year (2045) the change from No Build in truck traffic from 0% to 3% for all project segments. d not result in a significant increase in truck volumes.

nce, Minimization, and/or Mitigation Summary for the easures include, but are not limited to: Caltrans being n construction equipment and vehicles, which is eting the newer Tier 4 emission standards in the future cludes fourteen air quality measures (PF-AQ-1 through construction related air quality effects to the community control measures per SCAQMD fugitive dust; and the g landscape concepts to help contain/reduce CO2

| Comment<br>Number | Name                  | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| PHV-8-2           | Marlin Dawoljee       | We are requesting to have a complete and thorough environmental impact study to be carried out to really reflect the full impacts of this already vulnerable community, because any changes will have impacts on both their health and air quality. It would be a disservice to our community to not lace their health as their top priority when we move forward with this. So thank you for your time and for hosting this space for us. I'm looking forward to what can be done to address the community's health concerns. | The environmental document approv<br>the public an opportunity to review an<br>Following public circulation, any form<br>period and the public hearing was re-<br>including comments regarding the ne-<br>Where applicable, revisions were ma-<br>warranted any updates to the analys<br>Coordination, as well as Appendix F<br>comment process, and responses to                                                                                                                                                            |
|                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The Initial Study/Environmental Assess<br>studies conducted for the project, whe<br>CEQA, the IS concluded that the pro-<br>than significant impact with mitigation<br>circulation and consideration of public<br>conclusion that the project would not<br>was unchanged, so a Mitigated Nega<br>Environmental Impact Report (EIR) we<br>prepared. After public circulation and<br>revised as needed. Based on the rev<br>would not have a significant impact of<br>Significant Impact (FONSI) was prep<br>was not required. |
| PHV-9-1           | Anonymous<br>attendee | Will this project extend out into 67th street, taking up a portion of it?                                                                                                                                                                                                                                                                                                                                                                                                                                                      | As answered in the public hearing, ne<br>However, there is an aerial easemen<br>Avenue.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PHV-10-1          | Virginia Leonard      | Will you be improving the sound wall on the westbound 91 when our loop project is started on the westbound side bordering Eleanor?                                                                                                                                                                                                                                                                                                                                                                                             | Thank you for your comment. As ans<br>Avenue to Cherry Avenue project on<br>SR-91. No improvements on the wes                                                                                                                                                                                                                                                                                                                                                                                                                |
| PHV-11-1          | Calvina Sisk          | When will the Hamilton Loop project be started?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The WB Hamilton Loop project is cur<br>is the project proponent and is the ap<br>project and implementation plans.                                                                                                                                                                                                                                                                                                                                                                                                           |
| PHV-12-1          | Julie Willett         | I live at the west end of 67th street. A great portion of the noise that we experience is from cars speeding up the onramp from Atlantic where there is no wall at this time. Will there be anything to mitigate this noise?                                                                                                                                                                                                                                                                                                   | The Noise Study Report (NSR) and a<br>prepared for the Project. Potential ab<br>determined that the project will result<br>predicted in areas of frequent human<br>Noise abatement measures that are<br>of final design are then incorporated<br>abatement is being considered at loc<br>predicted to approach or exceed the<br>(see Table 30 in Section 2.2.6 Noise<br>Along EB SR-91, the traffic noise mo<br>the land uses are predicted to range<br>noise levels are predicted to approac                                |

#### Response

val process includes a public circulation period giving nd comment on the environmental document. nal comment submitted during the public circulation esponded to in the Final Environmental Document, eed for an Environmental Impact Report/Statement. ade to the Environmental Document when a comment sis. Please refer to Chapter 4 - Comments and for more detailed information regarding the public o formal comments received during public circulation.

essment (IS/EA) was prepared based on technical nich followed state and federal requirements. Under oject had no impact, less than significant impact, or less n incorporated to affected resources. After public ic comments, the IS/EA was revised as needed. The t result in any significant impact to the environment ative Declaration (MND) was prepared and an was not required. Similarly, under NEPA, an EA was d consideration of public comments, the IS/EA was vised EA, it was concluded that the project as a whole on the environment. Therefore, a Finding of No bared and an Environmental Impact Statement (EIS)

no, the Project will not take any portion of E 67th Street. In over a small part of the sidewalk east of Walnut

swered in the public hearing, the EB SR-91 Atlantic ily includes improvements on the eastbound side of stbound side of SR-91 are included with this project.

rrently in the feasibility stage. The City of Long Beach ppropriate agency to inquire about the status of the

a Noise Abatement Decision Report (NADR) were batement measures must be considered when it is t in noise impacts, and where noise impacts are in use that would benefit from a lowered noise level. determined to be reasonable and feasible at the time into the project's plans and specifications. Noise cations where the noise levels in the design-year are noise abatement criterion at the specified land use and Vibration).

odeling results also indicate that traffic noise levels at from 59 to 72 dBA Leq(h) in the design-year, where ch or exceed the NAC at residences (67 dBA e school in the design year is therefore predicted to be

| Comment<br>Number | Name      | Comment                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                   |           |                                                                                                                                                                                                                                                                                        | 49 dBA Leq(h), and 51 dBA Leq(h) a<br>year noise level does not approach of<br>interior traffic noise impacts are pred<br>increase in noise up to a 13 dBA; and<br>that approach or exceed the NAC for<br>was considered in the Project Study                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                   |           |                                                                                                                                                                                                                                                                                        | As part of the NSR and NADR, detail<br>located at the edge of the shoulder a<br>SR-91, was considered to be reason<br>the edge of the freeway from approxi-<br>corner of 67th Street and Millmark Av-<br>the existing sound wall on the Cherry<br>minimum noise reduction to be consi-<br>noise barrier, EXB-4. This noise barr<br>noise reduction at one or more benef-<br>length of approximately 4,864 feet. Of<br>that a 14-foot barrier would reduce no-<br>reduce noise levels by 5 to 14 dBA. I<br>reductions at each of the locations the<br>approach or exceed the NAC; the pre-<br>to the same decibel as existing condi-<br>mitigate the noise impact to less thar<br>Figure 15, Noise and Vibration of the<br>Evaluation - CEQA Significance Deter |
|                   |           |                                                                                                                                                                                                                                                                                        | Additionally, the Project Team evaluation<br>on-ramp and Cherry Avenue off-ramp<br>coverage/recommendation noted in the<br>NADR, the evaluation to determine the<br>consideration design standards and a<br>thresholds for making a wall feasible<br>readings and noise modeling, extend<br>(Atlantic Avenue on-ramp and Cherry<br>1 decibel of improvement at those par<br>Noise Analysis Protocol, abatement of<br>decibel noise reduction at impacted of<br>acoustically feasible; therefore, exter<br>meet the criteria for being acousticall<br>part of this project. The lack of decibe<br>existing sound wall along the SR-91<br>this area.                                                                                                             |
| PHV-13-1          | Elsa Tung | Hi. Yes. My name is Elsa Tung. I'm a community advocate in Long Beach and also a social justice advocate and a resident as well. A couple things. Thank you for this                                                                                                                   | Thank you for your feedback.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                   |           | opportunity and this conversation and this presentation. I guess I'll just put it all at once.<br>A couple of the public commenters have mentioned a full environmental impact study. Has<br>that not already been done? I see the terminology that Metro/Cal Trans is using is "final | Mitigated Negative Declaration under<br>of No Significant Impact under NEPA<br>completed to follow state and federal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

#### Response

at the place of worship. Because this predicted designor exceed the interior NAC of 52 dBA Leq(h), no dicted. One modeled location is predicted to see an ad a few other locations are predicted to see increases r the designated land use. Therefore, noise abatement Area.

iled modeling analysis was conducted for two barriers along EB SR-91. A 14 foot sound wall BA-4, along EB hable and feasible. The barrier would be constructed on imately the edge of the existing retaining wall at the venue on the Atlantic Avenue on-ramp to the vicinity of Avenue off-ramp. Barrier BA-4 would achieve the idered acoustically feasible and would replace existing ier would also meet the Caltrans design goal of 7 dB fited receivers for all evaluated wall heights, with a Calculations based on preliminary design data show noise levels by 5 to 13 dBA, and a 16-foot barrier would Implementation of BA-4 would result in noise hat are predicted to see an increase in noise that edicted noise levels with BA-4 would either be reduced litions or lower than existing conditions and would n significant under CEQA. Please refer to Section 2.26, environmental document, and Chapter 3: CEQA erminations for Noise.

ated extending the noise barrier at the Atlantic Avenue op to provide residents above and beyond the the NSR and NADR. In addition to the NSR and the lengths of the walls and feasibility took into safety, as well as FHWA and Caltrans criteria and e. After taking into account the noise measurement ding the wall lengths in these particular locations by Avenue off-ramp) would result in a gain of less than articular locations. According to the Caltrans Traffic measures such as noise barriers, must achieve a 5 receptor locations in order to be considered nding the noise barrier at these locations would not ly feasible and reasonable and will not be included as bel improvement in this location is also due to the mainline which currently mitigates most of the noise in

vered in the public hearing, an Initial Study with r CEQA, and Environmental Assessment with Finding was prepared for this project. Technical studies were l requirements; the findings from the technical studies

| 0      | News |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Number | Name | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|        |      | <ul> <li>environmental document." Is that not the same as a full environmental impact study? And if a full impact study has not been conducted, why not? Because this community is on the highest end of the CalEnviroScreen burden scale. It's, like, bright red on the CalEnviroScreen map. Has this project had a full environmental impact study, and if not, why not?</li> <li>Secondly, \$80 million? That's fascinating. That's a lot a money. Numerous studies show that widening freeways induces demand. Widening freeways induces demand and traffic. So the congestion argument is questionable at best. There will be more cars. There will be more traffic. There will be more, you know in particular, potential diesel truck traffic.</li> </ul> | were used to support preparation of t<br>technical studies conducted and envi<br>impacts would be less than significar<br>Study/Environmental Assessment is<br>incorporation of formal comments rec<br>team determined the project would no<br>therefore, the Initial Study with propo<br>an Environmental Assessment with a<br>appropriate level of environmental do                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|        |      | greenhouse gas, and particulate matter emissions will go up. Widening freeway induces<br>demand. There are so many studies that have shown that. What other alternatives have<br>been considered besides the build or no-build. What else has the consideration of \$80<br>millions? How else has that been considered? If it's only been build or no-build, why not?•<br>Thank you.                                                                                                                                                                                                                                                                                                                                                                             | <b>Community Impacts:</b> The project te<br>100 percentile under the Cal EPA - C<br>Assessment (CIA) was prepared for t<br>impacts of a proposed transportation<br>achieve context sensitive solutions in<br>refers to the practice of achieving en-<br>consideration of social, economic, an<br>development process. The findings fr<br>in Section 2.1.1 Environmental Justic<br>2.1.3 Traffic and Transportation/Pede                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Traffic:</b> The EB SR-91 Atlantic Aven<br>enhance operational safety condition<br>addition of a 0.86-mile auxiliary lane<br>project and will not be adding a throu<br>improvements to SR-91 and would net<br>truck volumes. See Table 22 Compare<br>Traffic Volumes-Opening Year 2024<br>Traffic Average Daily Traffic Volumes<br>and truck volumes for the No Build, O<br>that the project would not result in sig<br>Average daily traffic and truck volume<br>Condition show an increase in truck to<br>Design Year (2045) the change from<br>traffic from 0% to 3% for all project se<br>result in a significant increase in truck<br>Planning and Research (OPR) to ide<br>transportation impacts within CEQA.<br>advisory, Caltrans determined that the<br>length designed to improve roadway<br>measurable and substantial increase<br>under CEQA [TAC], September 2020<br>Transportation Impacts in CEQA, De<br>out from further analysis. An analysis<br>using the Caltrans Traffic Accident S |
|        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (please refer to Table 5 in Section 1.3<br>in the project study area). Within the<br>mainline segments show both the Fa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### Response

the Initial Study/Environmental Assessment. The ironmental analysis determined that the project nt with mitigation incorporated. The Initial a complete environmental document. After ceived during the public circulation process, the project not result in a significant effect on the environment and osed Mitigated Negative Declaration under CEQA, and Inticipated Finding of No Significant Impact is the ocument.

am notes that the surrounding community is in the 95alEnviroScreen tool. A Community Impact the Project in August 2020 to assess the potential project on communities and neighborhoods, and to the design of the project. Context sensitive solutions vironmental sensitivity by means of incorporating d environmental effects throughout the project rom the CIA helped support the conclusions provided e, Section 2.1.1 Utilities/Emergency Services, and estrian and Bicycle Facilities of the IS/EA.

ue to Cherry Avenue project is a safety project to ns along the mainline and ramps and includes the on EB SR-91. This project is not a capacity-increasing igh-lane. The project would include operational not result in significant increases in overall traffic or rison of Eastbound Segment Traffic Average Daily and Table 24 Comparison of Eastbound Segment s-Design Year 2045. A review of average daily traffic Opening Year (2024) and Design Year (2045) show gnificant increases in overall traffic or truck volumes. es for Opening Year (2024) compared to the No Build traffic from 0% to 3% for all project segments. For No Build Conditions shows a similar increase in truck egments. The proposed Build Alternative would not k volumes. SB 743 requires the Governor's Office of ntify new metrics for identifying and mitigating Per Caltrans and OPR's guidance and technical ne "addition of an auxiliary lane of less than one mile in safety" is a project type "not likely to lead to a in vehicle travel " (Caltrans Transportation Analysis ), p. 14 and Technical Advisory on Evaluating cember 2018, p. 21) and therefore can be screened of mainline and ramp collision history was performed urveillance and Analysis System (TASAS) database .3 Purpose and Need for a summary of accident rates project study area, three of the four analyzed freeway atal + Injury and the Total actual accident rates greater

| Comment<br>Number | Name                  | Comment                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                | than the Total statewide average acc<br>freeway mainline segments greater to<br>percent to about 107 percent higher<br>Additionally, five of the ten freeway r<br>Fatal + Injury actual accident rates g<br>seven of the ten freeway ramp segm<br>Total statewide average accident rate<br>ramps were indicative of collisions re-<br>intersection geometry. The Project is<br>between the I-710 and Atlantic Aven<br>therefore help reduce congestion relations. |
|                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Air Quality:</b> Please see Section 2.2.<br>and Traffic Operations Analysis Reporteviewed by SCAG's Transportation<br>be a Project of Air Quality Concern (If<br>meet the definition of a POAQC as d<br>Guidance. Additionally, the Project w<br>South Coast Air Quality Management<br>procedures for minimizing air pollutation<br>through PF-AQ-14 in Appendix A - A                                                                                         |
|                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Project alternatives:</b> A No Build Alternatives project alternatives. Please realternatives considered but eliminate                                                                                                                                                                                                                                                                                                                                         |
| PHV-14-1          | Anonymous<br>attendee | Will this project extend out into 67th street, taking up a portion of it?                                                                                                                                                                                                                                                                                                                                      | See Comment Response to PHV-9-7                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PHV-15-1          | Frank Hidalgo         | Is there a supplemental study with regards to the temporary Alondra exits (detours from the 710). Those are already a bit dangerous. And is there a study of the traffic impact heading towards the construction area?                                                                                                                                                                                         | A preliminary Transportation Manage<br>Approval/Environmental Document p<br>document, when the SB I-710 to EB<br>temporary closed, the detour traffic v                                                                                                                                                                                                                                                                                                           |
|                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                | A more comprehensive TMP would be<br>measure PF-COM-2, and alternate re<br>be identified (see Section 2.1.3 Traff<br>710 to EB SR-91 connector to the At<br>traffic will have an option to use SB I<br>details will be provided as part of the<br>Portable changeable message signs                                                                                                                                                                               |
| PHV-16-1          | Ashley                | I love the idea of having the loop so close to my home and having more green spaces in<br>the Hamilton area, but my concern is that after the completion who is going to help prevent<br>all of the homeless from invading this space? we already have so many encampments and<br>homelessness close to the tracks and freeways that Caltrans has neglected to address.<br>how is this issue going to tackled? | Project improvements will trigger the<br>Caltrans and the City of Long Beach<br>but is a separate project that will be i<br>continued coordination between Met<br>facilitation of the City's Hamilton Loo                                                                                                                                                                                                                                                         |
|                   |                       | I am also curious if there will be improvements and beautification done close at the Cherry freeway entrance and exits.                                                                                                                                                                                                                                                                                        | forward, will also trigger discussion a<br>the potential for encampments and h                                                                                                                                                                                                                                                                                                                                                                                    |

#### Response

cident rates. The total accident rates at these three than the statewide average range from about 30 than the total statewide average accident rate. ramp segments analyzed within the study area show preater than the statewide average accident rates, and nents show Total actual accident rates greater than the tes. The TASAS data shows that accidents on the elated to congestion and/or the existing ramp and s anticipated to improve overall interchange operations hue on-ramps and the Cherry Avenue off-ramp, and ated accident rates.

.5 Air Quality, which is based on the Air Quality Report ort prepared for this project. The project was also Conformity Working Group and was determined to not POAQC) for PM10 and/or PM2.5 because it does not defined in U.S. EPA's Transportation Conformity will comply with construction standards adopted by the nt District (SCAQMD) as well as Caltrans standardized ints during construction (see Project Features PF-AQ-1 avoidance, Minimization, and/or Mitigation Summary).

ernative and a Build Alternative were analyzed as fer to Section 1.5.2 of the IS/EA for a description of ed from further discussion.

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ement Plan (TMP) was prepared during the Project bhase of this project. As discussed in the TMP SR-91 connector to the Atlantic Avenue off-ramp is will have an option to use SB I-710 to Alondra exit.

be prepared during final design with implementation of routes, detours, and access points for motorists would fic and Transportation). For example, when the SB Itlantic Avenue off-ramp is temporary closed, the detour I-710 to Alondra exit. More options and additional TMP that will be developed during final design. and detour signs will be provided for drivers.

e need to update the maintenance agreement between a. The Hamilton Loop Project is not part of this project, implemented by the City of Long Beach. However, the tro, Caltrans and the City of Long Beach on the p Project, should the Hamilton Loop Project move and resolution to improve maintenance, and address nomelessness.

| Comment<br>Number | Name                              | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                   |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | The Project will include landscaping<br>approved SR-91 Aesthetic Master P<br>the Cherry On-Ramp since it is outsi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PHV-17-1          | Julie Willett                     | How much of the construction will be from the street side? Will there be construction vehicles parked in front of the homes? And how much of this construction will occur at night?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Construction would be completed in<br>following demolition of the existing w<br>combination so the residents can be<br>construction would be completed fro<br>barrier/retaining wall combination is<br>Stage 1) to expedite the constructior<br>impacts to the community. Once the<br>remainder of project construction is a                                                                                                                                                                                                                                                                                                                                                                                                   |
|                   |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Please refer to AVM-NOI-2 of the EC<br>Mitigation Summary which states that<br>windows allowed by the City of Long<br>to 7pm; and Saturday 9am to 6pm. A<br>occupants located within 200 feet of<br>days prior to commencement of cons<br>schedule of the proposed project. All<br>of construction activities, as well as p<br>where residents can inquire about th                                                                                                                                                                                                                                                                                                                                                            |
| PHV-18-1          | Calvena Sisk,<br>Virginia Leonard | Will the soundwall on the WB 91 off ramp at Cherry extend almost to the end of the ramp?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | As answered in the public hearing, the will not be making any improvements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PHV-19-1          | Ashley                            | I agree with Patricia, I also live on 68th Street and not only do we have heavy traffic we also have big rigs that come down our street and we have people speeding. we have lots of children on 68th and I've witnessed my neighbors kids almost get hit by one of those big rigs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Please see Comment Response to F<br>Avenue project does not include imp<br>local traffic only south of SR-91.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PHV-20-1          | Natalia Ospina                    | Yes. Hi. Thank you for holding this meeting. My name is Natalia Ospina, and I am an attorney from the Metro Resources Defense Council and a member of the Coalition for Environmental Health and Justice. I'd like to focus my concerns on the environmental review that has been done for this project under CEQA and NEPA. Both CEQA and NEPA require government agencies to study and engage in a meaningful and transparent dialogue with the public about proposed projects that may have significant impacts on the environment. I will just echo what other folks have raised. There are some questions based on the existing environmental analysis as to the level of significance of the impacts from this project. Whether a project has significant impacts is not related to the size of the project. The courts have stated that relatively small projects can be found to, nevertheless, have a significant impact on the environment and on people. The study for this project concludes that there won't be significant impacts due to the size and proposed mitigation measures. However, the environmental document really fails to provide an adequate analysis and evidence to support this conclusion. | The Project Development Team eng<br>specified under CEQA and NEPA. In<br>public circulation period, the Notice of<br>the Long Beach Press-Telegram (En-<br>circulation period began, and a seco<br>circulation period was extended to pe<br>Additionally, Metro's project website<br>materials, such as the fact sheet (in<br>Spanish), and the presentation mater<br>there have also been ongoing interact<br>Beach and Gateway Cities Council of<br>meeting with the Hamilton Neighborh<br>Mayor Rex Richardson to provide a<br>communication open between reside<br>As responded to in Comment Respon<br>was not determined based on the siz<br>studies and environmental analysis of<br>the Project Approval/Environmental |

#### Response

treatments and design and will be consistent with the lan. There are no anticipated improvements for ide the Project limits.

three stages. Under Stage 1, the first order of work vall will be to build the noise barrier/retaining wall nefit from its protection as soon as possible. This m the north side of 67th Street. Additionally, the noise anticipated to be constructed in four segments (within n duration and minimize the temporary construction noise barrier/retaining wall has been constructed, the anticipated to take place from the freeway side.

CR in Appendix A - Avoidance, Minimization and/or at construction will take place within the allowable g Beach Municipal Code: Monday through Friday, 7am Additionally, per AVM-NOI-2, property owners and the Project boundary will be sent a notice, at least 15 struction of each phase, regarding the construction I notices and signs will indicate the dates and duration provide a contact name and a telephone number ne construction process and register complaints.

he EB SR-91 Atlantic Avenue to Cherry Avenue project s on the Westbound portion of SR-91.

PHV-7-1. The EB SR-91 Atlantic Avenue to Cherry provements in this area. The traffic detour would be for

aged the public in accordance with the requirements addition to the notices residents received during the of Availability was published in two local newspapers, nglish) and La Opinion (Spanish) when the public and round of newspaper ads were published when the rovide additional details about the public hearing. has been updated accordingly to include project English and Spanish), the FAQ (in English and erials (English and Spanish). Throughout the project, gency coordination meetings with the City of Long of Governments. On December 16, 2020, a community hood Association was held at the request of Vice project update to residents and keep the line of ents and project team members.

onse IP-14-1, the level of significance for this project ze of the project, but rather informed by the technical completed during the early planning phase and then Document phase. Technical studies were first

| Comment<br>Number | Name             | Comment                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                   |                  |                                                                                                                                                                                                                                                                                                   | prepared for this project following sta<br>document, an Initial Study/Environm<br>on the technical studies conducted for<br>project had no impact, less than sign<br>mitigation incorporated to affected re-<br>public comments, the IS/EA was rev<br>not result in any significant impact to<br>Negative Declaration (MND) under C<br>was prepared. After public circulation<br>revised as needed. Based on the rev<br>would not have a significant impact of<br>Significant Impact (FONSI) was prep                                                                                                                                                                                                                                                                                                                                                            |
| PHV-20-2          | Natalia Ospina   | The fact that it's a widening project, as folks have already stated, raised some concerns about whether the project could induce additional traffic as well as air, noise, traffic, and water pollution. This is also a project right along the LA river. So there's a lot of different concerns. | The EB SR-91 Atlantic Avenue to Ch<br>operational safety conditions along to<br>0.86-mile auxiliary lane on EB SR-97<br>will not be adding a through-lane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                   |                  |                                                                                                                                                                                                                                                                                                   | <b>Traffic:</b> The project would include op<br>in significant increases in overall traff<br>Eastbound Segment Traffic Average<br>24 Comparison of Eastbound Segme<br>2045. A review of average daily traffi<br>(2024) and Design Year (2045) show<br>increases in overall traffic or truck vo<br>Opening Year (2024) compared to the<br>from 0% to 3% for all project segmen<br>Conditions shows a similar increase<br>The proposed Build Alternative woul<br>Additionally, SCAG's Transportation<br>September 22, 2020 and determined<br>quality concern (POAQC) for particu<br>POAQC as defined in U.S. EPA's Tra-<br>Comment Response PHV-13-1 for a<br>and how OPR guidance and technica<br>project can be screened out from fur<br><b>Water pollution:</b> Please refer to See<br>which describes that Design Pollutio<br>Stormwater Best Management Pract |
|                   | Natalia Ospina   | It sooms like the existing analysis may be incomplete, and there is some indications that                                                                                                                                                                                                         | WQ-1 through PF-WQ-4. The project<br>National Pollutant Discharge Eliminal<br>Discharges Associated with Constru<br>General Permit) (Order No. 2009-00<br>System No. CAS000002 as amende<br>0006-DWQ) and any subsequent am                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| FUV-20-3          | Inatalia Uspilia | there may be significant impacts from this project. Specifically, I'd also like to raise that the                                                                                                                                                                                                 | the temporary and permanent traffic,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

#### Response

ate and federal requirements. The environmental ental Assessment (IS/EA) was then prepared based or the project. Under CEQA, the IS concluded that the hificant impact, or less than significant impact with esources. After public circulation and consideration of ised as needed. The conclusion that the project would of the environment was unchanged, so a Mitigated CEQA was prepared. Similarly, under NEPA, an EA n and consideration of public comments, the IS/EA was vised EA, it was concluded that the project as a whole on the environment. Therefore, a Finding of No bared.

nerry Avenue project is a safety project to enhance he mainline and ramps, and includes the addition of a 1. This project is not a capacity increasing project and

perational improvements to SR-91 and would not result fic or truck volumes. See Table 22 Comparison of Daily Traffic Volumes-Opening Year 2024 and Table ent Traffic Average Daily Traffic Volumes-Design Year ic and truck volumes for the No Build, Opening Year w that the project would not result in significant blumes. Average daily traffic and truck volumes for ne No Build Condition show an increase in truck traffic nts. For Design Year (2045) the change from No Build in truck traffic from 0% to 3% for all project segments. d not result in a significant increase in truck volumes. Conformity Working Group reviewed the project on that the project is not considered a project of air late matter because it does not meet the definition of a ansportation Conformity Guidance. Please refer to more detailed discussion regarding the project type al advisory, and Caltrans have determined that this ther traffic analysis under CEQA.

ction 2.2.1 Water Quality and Storm Water Runoff in Prevention Best Management Practices and tices would be maintained under Project Features PFet would also be in compliance with the provision of the ation System General Permit for Stormwater ction and Land Disturbance Activities (Construction 09-DWQ, National Pollutant Discharge Elimination ed by Order No. 2010-0014-DWQ and Order No. 2012nendment or renewal.

has been updated to include more information about , air quality, and noise impacts as it relates to

| Comment<br>Number | Name             | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                   |                  | environmental justice analysis is incomplete. As folks have raised already, this is a community in the 95th to 100th percentile under CalEnviroScreen. Making a complete assessment is also important. The existing environmental ·justice analysis is really incomplete, and inadequately studies the possible existing and cumulative impacts on this community.                                                                                                                                                                                                                                                                  | Environmental Justice populations w<br>Justice analysis states that Environn<br>construction activities since construct<br>However, the analysis concludes that<br>and adverse effects on any minority<br>minimization measures would be imp<br>the community. Please refer to Appe<br>Summary for the complete list of me<br>community is in the 95-100 percentil<br>cumulative impact section under Sec<br>account for the project's potential to<br>Environmental Justice populations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PHV-20-4          | Natalia Ospina   | According to the Induce Travel Calculator created by the National Center for Sustainable<br>Transportation at UC Davis, this proposed auxiliary lane can add from 2.1 to 7.4 million<br>vehicle miles traveled per year. Even so, this environmental document fails to show that<br>there was modeling or a robust study of the air pollution that could result from the project.<br>It is definitely extremely important for the health of this community to ensure that the<br>environmental assessment of this project is complete and considers all the necessary<br>alternatives and mitigation measures necessary. Thank you. | The EB SR-91 Atlantic Avenue to Ch<br>operational safety conditions along t<br>0.86-mile auxiliary lane on EB SR-97<br>will not be adding a through-lane. The<br>Transportation - Induced Travel Calco<br>VMT for this type of project, as this p<br>lane. Please refer to Comment Resp<br>regarding the project type and how C<br>have determined that this project car<br>CEQA.<br>Refer to Table 22 Comparison of Ea<br>Volumes-Opening Year 2024 and Ta<br>Average Daily Traffic Volumes-Desig<br>truck volumes for the No Build, Oper<br>the project would not result in signific<br>Average daily traffic and truck volum<br>Condition show an increase in truck<br>Design Year (2045) the change from<br>traffic from 0% to 3% for all project s<br>result in a significant increase in truck<br>Please see Section 2.2.5 Air Quality<br>Operations Analysis Report prepared<br>for this project. Construction emission<br>Metropolitan Air Quality Management<br>Version 9.0.0. For project-level confer<br>new localized CO, PM2.5, and/or PM<br>National Ambient Air Quality Standa |
| PHV-21-1          | Leonard Don Juan | Yes. I'm just wondering how high will they go because I have seen the really high ones down the 405 in Orange County. Those seem to mitigate the noise and pollution, or at least a lot more than the ones we have. Since we are going to go through the trouble of two and a half years of dealing with noise and construction, you know, might as well make it worth our while. I'd like to see it be high.                                                                                                                                                                                                                       | As answered in the public hearing, e<br>along EB SR-91 and ramps within th<br>will vary from 12 feet to 14 feet. Sou<br>between the range of 8 feet and 16 f<br>Noise Abatement Decision Report (N<br>barrier. The recommendation takes i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### Response

vithin the Project Study Area. The Environmental nental Justice populations would be affected by ction would occur adjacent to these populations. at the project would not result in disproportionately high or low-income populations as avoidance and plemented during construction to minimize impact to endix A - Avoidance, Minimization, and/or Mitigation asures. The project team notes that the surrounding e under the Cal EPA - CalEnviroScreen tool. The ction 2.2.1 Environmental Justice has been updated to contribute to, and result in cumulative impacts to

nerry Avenue project is a safety project to enhance he mainline and ramps and includes the addition of a 1. This project is not a capacity increasing project and nerefore, the National Center for Sustainable culator is not the appropriate mechanism to calculate project does not add a general purpose or an HOV oonse PHV-13-1 for a more detailed discussion OPR guidance and technical advisory, and Caltrans n be screened out from further traffic analysis under

stbound Segment Traffic Average Daily Traffic able 24 Comparison of Eastbound Segment Traffic gn Year 2045. A review of average daily traffic and ning Year (2024) and Design Year (2045) show that cant increases in overall traffic or truck volumes. nes for Opening Year (2024) compared to the No Build traffic from 0% to 3% for all project segments. For No Build Conditions shows a similar increase in truck egments. The proposed Build Alternative would not k volumes.

which is based on the Air Quality Report and Traffic d for this project. The Air Quality Report was prepared on modeling were estimated using the Sacramento nt District's Road Construction Emissions Model, ormity, the Project does not cause or contribute to any A10 violations, or delay timely attainment of any rds or any required interim emission reductions.

existing sound wall heights vary from 10 feet to 14 feet he project limits, and the proposed sound wall heights nd wall heights were evaluated in 2-foot increments eet for feasibility and reasonable allowances. The NADR) recommends a height of 14ft for the noise into account the Noise Study Report (NSR), geometric

| Comment<br>Number | Name                   | Comment                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                   |                        | And the other thing is how will it impact parking? You know, how much parking will be taken away from us? What kind of stance will the meter maids take as far as citing people? They have to overcrowd certain areas, et cetera. | and safety standards. For additional<br>determined during final design, pleas<br>Abatement Measures under Section<br>heights of the proposed soundwalls.<br>Under Stage 1, the first order of work<br>build the noise barrier/retaining wall<br>protection as soon as possible. The<br>to be constructed in four segments (v<br>and minimize the temporary construct<br>barrier/retaining wall has been constru-<br>anticipated to take place from the fre                                                                             |
|                   |                        |                                                                                                                                                                                                                                   | <b>Parking:</b> The EB SR-91 Atlantic Ave<br>(approximately 4 months per segmen<br>availability would return to existing co<br>Alternative would be constructed ent<br>Beach right of way, and would not re<br>spaces in the Project Area.                                                                                                                                                                                                                                                                                             |
| PHV-22-1          | Downtown Long<br>Beach | Will jobs be available for area residents if the project goes forward?                                                                                                                                                            | The commenter's support for the hire<br>communities first is acknowledged. O<br>qualified local residents, within existin<br>construction. Should federal funding<br>Build Alternative, the implementing a<br>requirements, which prohibit hiring di<br>origin.                                                                                                                                                                                                                                                                        |
| PHV-23-1          | Anonymous<br>Attendee  | How have you engaged youth, particularly students that attend Jordan given their proximity to this project? How are those 18 and under having their concerns heard.                                                               | Thank you for your feedback. As stat<br>Team engaged the public in accorda<br>NEPA. The Notice of Availability and<br>mailed to residents approximately 50<br>properties to the south of East 68th S<br>I-710, and to the west of the Union P<br>Paramount Avenues).                                                                                                                                                                                                                                                                   |
|                   |                        |                                                                                                                                                                                                                                   | In addition to the notices residents re-<br>of Availability was published in two lo-<br>(English) and La Opinion (Spanish) w<br>round of newspaper ads were publish<br>provide additional details about the p<br>been updated accordingly to include<br>and Spanish), the FAQ (in English ar<br>and Spanish). Throughout the project<br>coordination meetings with the City of<br>Governments. On December 16, 202<br>Neighborhood Association was held<br>provide a project update to residents<br>residents and project team members |

#### Response

information describing how sound wall heights will be se refer to the Avoidance, Minimization, and/or 2.2.6 Noise and Vibration for a discussion of the Construction would be completed in three stages. k following demolition of the existing wall will be to combination so the residents can benefit from its noise barrier/retaining wall combination is anticipated within Stage 1) to expedite the construction duration ction impacts to the community. Once the noise tructed, the remainder of project construction is neway side.

enue to Cherry Avenue project may temporarily nt) reduce available street parking. However, parking onditions following Project construction. The Build tirely within Caltrans right of way and City of Long esult in the permanent removal of on-street parking

e of local residents from affected environmental justice Caltrans and/or Metro will make every effort to hire ing federal and state labor laws, at the time of be used to complete the improvements in the selected agency would be required to comply with all Title VI liscrimination on the basis of race, color, or national

ted during the public hearing, the Project Development ance with the requirements specified under CEQA and a notice informing residents of the public hearing were 00 feet from the Project Area (owners or occupants of Street, to the north of Artesia Boulevard, to the east of Pacific Railroad that runs between Cherry and

eceived during the public circulation period, the Notice ocal newspapers, the Long Beach Press-Telegram when the public circulation period began, and a second shed when the circulation period was extended to public hearing. Additionally, Metro's project website has project materials, such as the fact sheet (in English nd Spanish), and the presentation materials (English ct, there have also been ongoing interagency of Long Beach and Gateway Cities Council of 20, a community meeting with the Hamilton at the request of Vice Mayor Rex Richardson to a and keep the line of communication open between

| Comment<br>Number | Name                              | Comment                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                   |                                   |                                                                                                                                                                                                                   | The Project Development Team mac<br>the public. We did receive a commer<br>77-1).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PHV-24-1          | Anonymous<br>Attendee             | Is the No Build Option really an option?                                                                                                                                                                          | As answered in the public hearing, th<br>Study/Environmental Assessment an<br>Alternative and the Build Alternative.<br>making process. Following completic<br>additional information based on form<br>Project Development Team reviewed<br>The Build Alternative was identified a<br>1.5.2 Identification of Preferred Altern<br>the Preferred Alternative was identified                                                                                                                                                                                                                                                                                                       |
| PHV-25-1          | Anonymous<br>Attendee             | What is the current height of the sound wall and what will the new height be?                                                                                                                                     | As answered in the public hearing, e<br>along EB SR-91 and ramps within th<br>will vary from 12 feet to 14 feet. Sour<br>between the range of 8 feet and 16 fe<br>additional information describing how<br>design, please refer to the Avoidance<br>Section 2.2.6 Noise and Vibration.                                                                                                                                                                                                                                                                                                                                                                                           |
| PHV-26-1          | Calvena Sisk,<br>Virginia Leonard | Will the soundwall extend to the end of the Cherry offramp on the EB 91. I inadvertently said WB and I know there will be no improvements on the WB side.                                                         | The Project Team evaluated extendi<br>and Cherry Avenue off-ramp to provi<br>coverage/recommendation noted in to<br>Decision Report (NADR). In addition<br>the lengths of the walls and feasibility<br>as well as FHWA and Caltrans criter<br>taking into account the noise measur<br>wall lengths in these particular location<br>ramp) would result in a gain of less the<br>locations. According to the Caltrans<br>such as noise barriers, must achieve<br>locations in order to be considered a<br>barrier at these locations would not re<br>feasible and will not be included as p<br>this area is also due to the existing s<br>mitigates most of the noise in this area |
| PHV-27-1          | Natalia Ospina                    | I also had a question - How will the Hamilton Loop project and the SR-91 project occur at<br>the same time as stated in this presentation if the environmental process has not yet begun<br>for the Loop project? | The EB SR-91 Atlantic Avenue to Ch<br>as the Hamilton Loop project. The pr<br>the State Route 91 Embankment Gre<br>Project Area. However, this Project (<br>Hamilton Loop Project are two separ<br>for this project, and the City of Long<br>Loop Project. The City of Long Beach<br>Hamilton Loop Project. For economic<br>coordinate efforts and reduce throwa<br>shortly after completion of the EB SR                                                                                                                                                                                                                                                                        |

#### Response

de every effort to hear comments from all members of nt from a concerned 6th grader (see Comment PHV-

he Environmental Document, an Initial halyzed two feasible alternatives, the No Build . Both alternatives were considered in the decision on of the public circulation period and inclusion of hal comments received during public circulation, the d the analysis and identified the Preferred Alternative. as the Preferred Alternative (please refer to Section mative, which provides a detailed description of why ied).

existing sound wall heights vary from 10 feet to 14 feet he project limits, and the proposed sound wall heights nd wall heights were evaluated in 2-foot increments feet for feasibility and reasonable allowances. For w sound wall heights will be determined during final e, Minimization, and/or Abatement Measures under

ing the noise barrier at the Atlantic Avenue on-ramp ide residents above and beyond the

the Noise Study Report (NSR) and Noise Abatement to the NSR and NADR, the evaluation to determine y took into consideration design standards and safety, ia and thresholds for making a wall feasible. After rement readings and noise modeling, extending the ons (Atlantic Avenue on-ramp and Cherry Avenue offthan 1 decibel of improvement at those particular Traffic Noise Analysis Protocol, abatement measures a 5 decibel noise reduction at impacted receptor acoustically feasible; therefore, extending the noise meet the criteria for being acoustically feasible and part of this project. The lack of decibel improvement in sound wall along the SR-91 mainline which currently ea.

herry Avenue project may not occur at the same time roposed greenbelt, the Hamilton Loop (also known as eenbelt), is planned in Caltrans right of way within the (EB SR-91 Atlantic Avenue to Cherry Avenue) and the rate projects; Caltrans is the CEQA/NEPA lead agency Beach would be the lead agency for the Hamilton the would be responsible for obtaining approval of the es of scale, both project teams are working together to away costs to ensure that the park would be open R-91 Atlantic Avenue to Cherry Avenue project.

| Comment<br>Number | Name                  | Comment                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                       |                                                                                                                                                                                                                          | The presentation touched upon the H<br>SR-91 Atlantic Avenue to Cherry Avenue to Cherry Avenue to Cherry Avenue the Hamilton Loop project and ongoin<br>Long Beach so that the Project will n                                                                                                                                                                                                                                                                                                                                                                                         |
| PHV-28-1          | Anonymous<br>Attendee | How high are the current sound walls?                                                                                                                                                                                    | As answered in the public hearing, a existing sound wall heights vary from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PHV-29-1          | Bridget               | Do all the questions asked, are they going to be included in the final report? Is there going to be another hearing to address the final environmental report? I live in the west end of 67th.                           | Thank you for your comment. All que<br>included in the Public Hearing Trans-<br>the final environmental document inc<br>circulation, including comments rece                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                   |                       |                                                                                                                                                                                                                          | In accordance with CEQA and NEPA final environmental document is not                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PHV-30-1          | Anonymous<br>Attendee | A couple of years back street work was done along 67th street the jackhammers has caused cracks in our asphalt and stucco, how would this be prevented and guaranteed to not cause more damage who would be responsible? | Thank you for your feedback. During<br>that will minimize construction impact<br>Avoidance, Minimization and/or Mitig<br>AVM-NOI-3. Measure AVM-NOI-3 we<br>reduction methods, where feasible, so<br>vibratory pile drivers to avoid the use                                                                                                                                                                                                                                                                                                                                          |
| PHV-31-1          | Anonymous<br>attendee | In regards to your statement regarding engaging the public, I have only received 2 notices.<br>I think you can ramp up your engagement a little more thoroughly.                                                         | Thank you for your feedback. The Pr<br>accordance with the requirements sp<br>notices residents received during the<br>published in two local newspapers, th<br>Opinion (Spanish) when the public ci<br>newspaper ads were published wher<br>additional details about the public he<br>updated accordingly to include project<br>Spanish), the FAQ (in English and S<br>Spanish). Throughout the project, the<br>meetings with the City of Long Beach<br>December 16, 2020, a community m<br>was held at the request of Vice Mayor<br>residents and keep the line of comm<br>members. |
|                   |                       |                                                                                                                                                                                                                          | Please refer to Chapter 4 - Commen<br>public participation has been accomp<br>team's efforts to fully identify, addres<br>coordination. Additionally, the Enviro<br>feedback for a total of 75 days.                                                                                                                                                                                                                                                                                                                                                                                  |
| PHV-32-1          | Manuel                | How long will take the project and penfold st will be affected?                                                                                                                                                          | As answered in the public hearing, th<br>3 years. E Penfold Street will not be<br>westbound SR-91 freeway and the p<br>westbound SR-91.                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### Response

Hamilton Loop project to inform residents that the EB enue Project Development Team is aware of plans for ing coordination is being conducted with the City of not preclude the proposed greenbelt.

long EB SR-91 and ramps within the project limits, n 10 feet to 14 feet.

estions asked during the public hearing have been cript which is part of the project records. Appendix F of cludes all formal comments received during public sived during the public hearing.

A regulations, a public hearing following approval of the required.

g construction, the Project will incorporate measures ets to the community. Please refer to Appendix A gation Summary for the ECR, particularly measure rould be implemented to include construction vibration such as using cast-in-drilled-hole piles, sonic, or e of impact-type pile drivers near residences.

roject Development Team engaged the public in becified under CEQA and NEPA. In addition to the e public circulation period, the Notice of Availability was he Long Beach Press-Telegram (English) and La irculation period began, and a second round of n the circulation period was extended to provide earing. Additionally, Metro's project website has been act materials, such as the fact sheet (in English and spanish), and the presentation materials (English and ere have also been ongoing interagency coordination h and Gateway Cities Council of Governments. On heeting with the Hamilton Neighborhood Association or Rex Richardson to provide a project update to hunication open between residents and project team

Its and Coordination which information about how plished for this project, and summarizes the project as, and resolve project-related issues through ongoing pomental Document was in circulation for community

he construction duration is estimated to be between 2affected. E Penfold Street is adjacent to the project does not propose any improvements on the

| Comment<br>Number | Name                  | Comment                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHV-33-1          | Anonymous<br>attendee | You have said that the new wall will be 14 feet but you have not said how high the current wall is.                                    | As answered in the public hearing, a existing sound wall heights are from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PHV-34-1          | Anonymous<br>attendee | What are the improvements going to be done on the Cherry exit? I think I missed this question being answered.                          | As answered in the public hearing, the and the ramp will be reconstructed to retaining/sound wall will be reconstructed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PHV-35-1          | Monica Teller         | Can the residents living in the area receive window air purifiers to offset pollution?                                                 | Thank you for your feedback. Your c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   |                       |                                                                                                                                        | Caltrans and Metro reviewed sugges<br>purifiers, and developed a list of add<br>impacts to the community. Air purifie<br>the project area because the project<br>dust created by construction-related<br>that air filters will be needed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   |                       |                                                                                                                                        | The additional measures include but                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   |                       |                                                                                                                                        | <ul> <li>Modify construction staging to e adjacent residents (Measure PF language).</li> <li>Measure PF-COM-4 has been a and Metro will consider and incojustice and community values by directly impacted.</li> <li>Use of equipment and tools with updated to include this additional</li> <li>During final design, use of rubber Atlantic Avenue on-ramp and Ch term noise reduction method (Av an Avoidance and Minimization</li> <li>Construction activity sources are measures for the control of fugit Quality Management District (SC measure that has been included)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PHV-36-1          | Anonymous<br>Attendee | Can you let us know how many people were on the call?                                                                                  | Please see Chapter 4 of the final environment |
| PHV-37-1          | Anonymous<br>Attendee | I think Leonard was referring to a tall temporary, dust/soundwall. I have also seen them on other freeway projects. Can those be used? | The Project Team evaluated the fease<br>anticipated height an effective tempor<br>topography adjacent to the EB SR-9<br>sound wall. Due to the existing condi-<br>on a slope above the adjacent reside<br>32-feet tall when placed at street leve<br>32-foot wall was determined not advi-<br>construction methods needed to inst<br>construction noise from installing the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

#### Response

along EB SR-91 and ramps within the project limits, 10 feet to 14 feet.

he shoulder is widened to increase the sight distance o accommodate the proposed widening. The ucted at the new location.

comment has been noted for the record.

stions from the public, including the request for air litional measures that will minimize construction ers will not be provided to residents living adjacent to will comply with dust control measures to minimize activities to the extent possible so it is not anticipated

are not limited to:

expedite construction and minimize exposure time to F-COM-3 has been updated to include this additional

added, which states that during Final Design, Caltrans orporate measures that support equity, environmental y minimizing construction impacts to those who may be

n minimal noise/vibration (Measure AVM-NOI-2 was al language).

erized asphalt on the re-constructed portion of the herry Avenue off-ramp would be explored to as a long-VM-NOI-4 is a new measure that has been included as measure).

e required to implement best available control tive dust in order to comply with South Coast Air CAQMD) Rule 403 (Measure PF-AQ-14 is a new d as a project feature).

vironmental document, which describes the public of 85 attendees at the public hearing, not including

sibility of a temporary sound wall, including the brary sound wall would need to be based on the 1 mainline and the cost to construct a temporary itions, with 80% of the project improvements occurring ents, a temporary sound wall would need to be at least rel on East 67th Street to be effective. The temporary isable due to safety (overall height of the wall) and the call the temporary wall, including the anticipated e wall.

| Comment<br>Number | Name                   | Comment                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                        |                                                                                                                                                                                          | Please refer to Appendix A - Avoidar<br>of measures that will minimize construc-<br>comply with ECR noise and construc-<br>include AVM-NOI-1 to AVM-NOI-3, a<br>14. Additional measures that will min-<br>but are not limited to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                   |                        |                                                                                                                                                                                          | <ul> <li>Modify construction staging to e adjacent residents (Measure PF language).</li> <li>Measure PF-COM-4 has been a and Metro will consider and incogustice and community values by be directly impacted.</li> <li>Use of equipment and tools with AVM-NOI-2 was updated to inclue During final design, use of rubbe Atlantic Avenue on-ramp and CH term noise reduction method (A' as an Avoidance and Minimizati</li> <li>Construction activity sources are measures for the control of fugit Quality Management District (SC measure that has been included)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PHV-38-1          | Downtown Long<br>Beach | It says only a one lane extension but the draft plan shows 13 - 22 ft of widening. Why so wide at Myrtle UC                                                                              | The additional widening at the Myrtle lengthening of the Atlantic Avenue O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PHV-39-1          | Anonymous<br>Attendee  | If there is a no-build, will the HOV lane reconfiguration occur to lengthen the enter/exit area still happen?                                                                            | As answered in the public hearing, the No Build Alternative is selected. I still be considered, but it would have                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PHV-40-1          | Anonymous<br>Attendee  | Can the residents living in the area receive window air purifiers to offset pollution?                                                                                                   | See response to Comment Respons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PHV-41-1          | Anonymous<br>Attendee  | Why can't the reconfiguration still happen since it's just basically repainting lines?                                                                                                   | This comment refers back to Comme<br>area could conceivably happen but it<br>process. Repainting is still considere<br>studies (this time with no implementa<br>that modification and to justify the pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PHV-42-1          | Virginia Verdugo       | My name is Virginia Verdugo, being a mother the importance of my daughters health is my first priority. What will be changed to assure that students respiratory health is not at risk ? | As stated at the hearing, your concer-<br>construction, several measures will be<br>Please refer to Appendix A - Avoidar<br>complete list of measures. These measures<br>committed to the use of low-emission<br>anticipated to include equipment measures<br>(see also AVM-EN-4); the project include<br>PF-AQ-14) to reduce and minimize construction of dust of the second |

#### Response

nce, Minimization, and/or Mitigation Summary for a list ruction impacts to the community. The Project will ction vibration measures during construction which and ECR air quality measures PF-AQ-1 to PF-AQnimize construction impacts to the community include

xpedite construction and minimize exposure time to -COM-3 has been updated to include this additional

added, which states that during Final Design, Caltrans prporate measures that support equity, environmental y minimizing construction impacts to those who may

n minimal noise/vibration, when feasible (Measure ude this additional language).

erized asphalt on the re-constructed portion of the herry Avenue off-ramp would be explored to as a long-VM-NOI-4 is a new measure that has been included ion measure).

e required to implement best available control tive dust in order to comply with South Coast Air CAQMD) Rule 403 (Measure PF-AQ-14 is a new d as a project feature).

e Undercrossing also includes accommodating for the Dn-Ramp.

nere will be no improvement as part of this project if Lengthening the enter/exit area of the HOV lane could to be part of a separate project approval process.

se PHV-35-1.

ent PHV-39-1. The lengthening of the HOV enter/exit t would have to be part of a separate project approval ed a project and would need its own technical ation of an auxiliary lane) to determine the impacts of roject.

rns are noted and are being considered. During be in place to minimize impact to the community. Ince, Minimization, and/or Mitigation Summary for the easures include, but are not limited to: Caltrans being in construction equipment and vehicles, which is eting the newer Tier 4 emission standards in the future cludes fourteen air quality measures (PF-AQ-1 through construction related air quality effects to the community control measures per SCAQMD fugitive dust; and the

| Comment<br>Number | Name                  | Comment                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                       |                                                                                                                                                    | Project will include CO2 sequestering emissions (AVM-VIS-2).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                   |                       |                                                                                                                                                    | Caltrans and Metro reviewed sugges<br>measures that will minimize construc<br>measures include but are not limited                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                   |                       |                                                                                                                                                    | <ul> <li>Modify construction staging to e adjacent residents (Measure PF language).</li> <li>Measure PF-COM-4 has been a and Metro will consider and incojustice and community values by be directly impacted.</li> <li>Use of equipment and tools with updated to include this additional</li> <li>During final design, use of rubbe Atlantic Avenue on-ramp and Cl term noise reduction method (A' as an Avoidance and Minimizati</li> <li>Construction activity sources are measures for the control of fugit Quality Management District (SC measure that has been included)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PHV-43-1          | Anonymous<br>Attendee | it doesn't seem like you are prepared for our questions to make us feel comfortable with this project.                                             | Thank you for your comment. As stat<br>opportunity to receive formal comme<br>Study/Environmental Assessment. T<br>about the project on the spot, while o<br>environmental analysis to address w                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PHV-44-1          | Anonymous<br>Attendee | Will there be another public hearing after the final environmental document is released?                                                           | As stated in the public hearing, and i public hearing following approval of t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                   |                       |                                                                                                                                                    | Continuing dialog about the status of project website which will be updated as the project progress. Project webs spots-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/SR-91-early-action-program/S |
| PHV-45-1          | Anonymous<br>Attendee | With the Hamilton loop and bike lane being added this will impact parking for street parking during street sweeping and after project is complete. | As answered in the public hearing, a<br>Avenue project facilitates the implem<br>Project and bike lane is a separate p<br>Alternative for the EB SR-91 Atlantic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                   |                       |                                                                                                                                                    | The EB SR-91 Atlantic Avenue to Ch<br>months per segment) reduce availab<br>return to existing conditions following<br>constructed entirely within Caltrans r<br>would not result in the permanent rer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

#### Response

g landscape concepts to help contain/reduce CO2

stions from the public and developed a list of additional ction impacts to the community. The additional l to:

expedite construction and minimize exposure time to F-COM-3 has been updated to include this additional

added, which states that during Final Design, Caltrans orporate measures that support equity, environmental y minimizing construction impacts to those who may

minimal noise/vibration (Measure AVM-NOI-2 was al language).

erized asphalt on the re-constructed portion of the herry Avenue off-ramp would be explored to as a long-VM-NOI-4 is a new measure that has been included ion measure).

e required to implement best available control tive dust in order to comply with South Coast Air CAQMD) Rule 403 (Measure PF-AQ-14 is a new as a project feature).

ted in the public hearing, the public hearing was an ents on the draft environmental document, an Initial he project team addressed design related questions documenting all comments related to the hen the public circulation period closes.

in accordance with CEQA and NEPA regulations, a the final environmental document is not required.

the project can occur for this project via the Metro d by Metro Outreach with project-specific information site: https://www.metro.net/projects/i-605-corridor-hotrojects/.

Ithough The EB SR-91 Atlantic Avenue to Cherry nentation of the Hamilton Loop, the Hamilton Loop project and is not included as part of the Build Avenue to Cherry Avenue project.

nerry Avenue project may temporarily (approximately 4 ble street parking. However, parking availability would Project construction. The Build Alternative would be ight of way and City of Long Beach right of way, and moval of on-street parking spaces in the Project Area.

| Comment<br>Number | Name                                                                        | Comment                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHV-46-1          | 6-1 Anonymous<br>Attendee how will we get the final results for the project | As stated in the public hearing, the F<br>on Metro's website: <u>https://www.met</u><br><u>91-early-action-projects/</u> . A hard cop<br>viewed at the Michelle Obama Neigh<br>CA 90805. Information, reports, and<br>action projects may be found by exp<br>webpage. Additionally, the public wil<br>this project through the monthly Gate<br>committee meetings. |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   |                                                                             |                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   |                                                                             |                                                                                                                                                                                                                                                                                                                                                                    | The Caltrans Director approves the project is approved, a Notice of Dete                                                                                                                                                                                                                                                                                                                                                                            |
| PHV-47-1          | Hilda Gaytan                                                                | "I'm very new about this process. I never know what is going to happen. Can you explain<br>about what is going to happen? Based on the information that you are giving us now, we<br>are going to develop a letter and we are going to send it to you? Is that the next step.                                                                                      | Thank you for your comment. The pu<br>comments verbally on the draft envir<br>Assessment.                                                                                                                                                                                                                                                                                                                                                           |
|                   |                                                                             | So after this meeting, based on your responses and the conversation, we can write a le<br>and send it to you and declare if we are for or against the project and what we want to<br>change or what you want to do; right?                                                                                                                                         | Written comments on the draft Environments on the draft Environments on the draft Environment team via hard copy letter addressed email: D07.91AtlanticToCherry@dot                                                                                                                                                                                                                                                                                 |
|                   |                                                                             | And then what happens?<br>And then what is going to happen?"                                                                                                                                                                                                                                                                                                       | Any formal comment submitted durin<br>hearing, were considered, and all ap<br>accommodated and addressed in the                                                                                                                                                                                                                                                                                                                                     |
|                   |                                                                             |                                                                                                                                                                                                                                                                                                                                                                    | After the Final Environmental Docum<br>Notice of Determination will be filed will then receive an update on the Fi<br>complete this phase of the project, P<br>next phase is the design phase, whe<br>Final Design. Once final design is co<br>Phase.                                                                                                                                                                                               |
| PHV-47-2          | Hilda Gaytan                                                                | Yes, it makes sense. So you are not going to make a full environmental report? That's what it says here, and it was stated here; right?                                                                                                                                                                                                                            | An Initial Study with Mitigated Negat<br>Assessment with Finding of No Sign<br>project. Technical studies were comp<br>findings from the technical studies w<br>Study/Environmental Assessment. T<br>analysis determined that the project<br>be less than significant with mitigation<br>Assessment is a complete environm<br>comments received during the public<br>project would not result in a significal<br>Study with proposed Mitigated Nega |

#### Response

Final Environmental Document will be made available ro.net/projects/i-605-corridor-hot-spots-program/SRby of the Final Environmental Document can also be aborhood Library, 5870 Atlantic Avenue, Long Beach, fact sheets for this project and other SR-91 early anding the sidebar menu on the right hand side of the I continue to receive updates on the design process of eway Cities Council of Governments 91/605/405

rculation period and inclusion of additional information I during public circulation, the Project Development ntified the Preferred Alternative. The Build Alternative native (please refer to Section 1.5.2 Identification of s a detailed description of why the Preferred

project by approving the final project report. Once the ermination will be filed with the State Clearinghouse.

ublic hearing was an opportunity to receive formal ronmental document, an Initial Study/Environmental

onmental Document could be submitted to the project to Mr. Ronald Kosinski, or via the dedicated project .ca.gov.

ng the public circulation period, including the public propriate and reasonable requests and concerns were e Final Environmental Document.

nent and Project Report are approved by Caltrans, the with the California State Clearinghouse. Metro Board nal Environmental Document. These actions will Project Approval and Environmental Document. The ere the project design is advanced to 100% design or omplete the project will move into the Construction

ive Declaration under CEQA, and Environmental ificant Impact under NEPA was prepared for this pleted to follow state and federal requirements; the rere used to support preparation of the Initial The technical studies conducted and environmental would not result in adverse effects and impacts would on incorporated. The Initial Study/Environmental ental document. After incorporation of formal c circulation process, the project team determined the int effect on the environment and therefore, the Initial tive Declaration under CEQA, and an Environmental

| Comment<br>Number | Name                  | Comment                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                       |                                                                                                                                                                                                                                 | Assessment with anticipated Finding<br>environmental document. Caltrans, a<br>approved the final environmental do<br>will receive and file the final environmental                                                                                                                                                                                                 |
| PHV-48-1          | Anonymous<br>Attendee | The reports are difficult to understand for those who do not have a background in these types of things. I think a public session like this is very important to give "the average joe" to have it explained in laymen's terms. | Thank you for your feedback. Your c                                                                                                                                                                                                                                                                                                                                |
| PHV-49-1          | Anonymous<br>Attendee | Since so many of your responses were" it will be in the final report"                                                                                                                                                           | Thank you for your comment. Consist<br>answered in the final environmental<br>the record. Please refer to Chapter 4<br>for more detailed information regard<br>formal comments received during put                                                                                                                                                                 |
|                   |                       |                                                                                                                                                                                                                                 | All comments received verbally and<br>documented in the meeting transcrip<br>project team answered clarifying que<br>The project team also received ques<br>comments, and were documented an<br>document.                                                                                                                                                          |
| PHV-50-1          | Elsa Tung (she/her)   | What is the process for requesting a full Environmental Impact Study?                                                                                                                                                           | The environmental document approventies the public an opportunity to review a Following public circulation, any form period and the public hearing was resincluding comments regarding the new applicable, revisions were made to the warranted any updates to the analyst Coordination, as well as Appendix F comment process, and responses to                   |
|                   |                       |                                                                                                                                                                                                                                 | An Initial Study with Mitigated Negat<br>Assessment with Finding of No Sign<br>project. After incorporation of formal<br>process, if it was determined that the<br>on the environment, the Lead Agence<br>Environmental Impact Report (CEQA<br>Through preparation of the environm<br>less than significant impacts with mit<br>Impact Report or Environmental Imp |
| PHV-51-1          | Natalia Ospina        | Will Metro Board need to approve the final environmental document?                                                                                                                                                              | Caltrans, as the CEQA and NEPA Le<br>environmental document and project<br>CEQA Responsible Agency, will rece                                                                                                                                                                                                                                                      |
| PHV-52-1          | Anonymous<br>Attendee | Do we have the option to stop the project                                                                                                                                                                                       | As answered during the public hearing<br>Study/Environmental Assessment are<br>Alternative and the Build Alternative,<br>making process. Following completion<br>additional information based on form                                                                                                                                                              |

#### Response

g of No Significant Impact is the appropriate level of as the CEQA and NEPA Lead Agency, has formally cument, and Metro, as a CEQA Responsible Agency, mental document.

comment has been noted for the record.

stent with CEQA and NEPA regulations, comments are document in order to document a formal response for 4 - Comments and Coordination, as well as Appendix F ing the public comment process, and responses to ublic circulation.

through the Q&A panel during the public meeting were of and are part of the project's official record. The estions related to the project during the public hearing. stions that would be more appropriately considered nd responded to in Appendix F of the environmental

val process includes a public circulation period giving nd comment on the environmental document. nal comment submitted during the public circulation esponded to in the Final Environmental Document, eed for an Environmental Impact Statement. Where he Environmental Document when a comment sis. Please refer to Chapter 4 - Comments and for more detailed information regarding the public o formal comments received during public circulation.

tive Declaration under CEQA, and Environmental nificant Impact under NEPA was prepared for this comments received during the public circulation e project with mitigation would have a significant impact cy (Caltrans) would require preparation of an A) and/or Environmental Impact Statement (NEPA). nental document, this project was determined to have tigation incorporated, therefore, an Environmental pact Statement are not required.

ead Agency, has formally approved the final t report. Following Caltrans' approval, Metro, as a eive an update on the final environmental document.

ng, the Environmental Document, an Initial nalyzed two feasible alternatives, the No Build . Both alternatives were considered in the decision on of the public circulation period and inclusion of nal comments received during public circulation, the

| Comment<br>Number | Name                   | Comment                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                        |                                                                                                                                                                  | Project Development Team reviewed<br>other factors to identify the Preferred<br>the No Build Alternative. The Build A<br>(please refer to Section 1.5.2 Identified<br>detailed description of why the Prefe                                                                                                                                                                                                        |
| PHV-53-1          | Anonymous<br>Attendee  | so basically our vote don't count                                                                                                                                | Thank you for your comment. Any forma<br>has been responded to in the Final Envir<br>made to the Environmental Document w<br>Please refer to Chapter 4 - Comments a<br>information regarding the public commer<br>during public circulation.                                                                                                                                                                       |
|                   |                        |                                                                                                                                                                  | Additionally, the Environmental Documer<br>feasible alternatives, the No Build Alterna-<br>considered in the decision making proce<br>and inclusion of additional information ba-<br>the Project Development Team reviewed<br>factors to identify the Preferred Alternativ<br>Alternative. The Build Alternative was ide<br>1.5.2 Identification of Preferred Alternativ<br>Preferred Alternative was identified). |
| PHV-54-1          | Anonymous<br>Attendee  | Please clarify what will happen after the metro board receive and files the environmental study, since we know that receive and file is not a matter of approval | After the Final Environmental Docum<br>an update on the Final Environmental<br>Report and file the Notice of Determi<br>actions will complete this phase of th<br>Document. The next phase is the des<br>100% design or Final Design. Once for<br>Construction Phase.                                                                                                                                              |
| PHV-55-1          | Elsa Tung (she/her)    | I'd like to make a formal request here to bring the Final Environmental Document back to the community in a public meeting like this.                            | Neither CEQA or NEPA regulations r<br>Document, a Mitigated Negative Dec<br>(NEPA). The Final IS/EA Mitigated N<br>will be circulated to those who provid<br>during public circulation.                                                                                                                                                                                                                            |
| PHV-56-1          | Anonymous<br>Attendee  | why can't you say now                                                                                                                                            | Thank you for your comment. The pu<br>comments on the draft environmenta<br>Assessment. The project team addre<br>the spot, while documenting all comm<br>when the public circulation period clo                                                                                                                                                                                                                   |
| PHV-57-1          | Downtown Long<br>Beach | Does a CEQA exemption cancel the need for an EIR?                                                                                                                | There are three levels of environment<br>Categorical Exemption (CE), an Initia<br>(MND) or Negative Declaration (ND),<br>project falls under an exempt categories<br>is exempt under CEQA, then an EIR<br>MND under CEQA has been prepare                                                                                                                                                                          |

#### Response

d the analysis, including the purpose and need, and d Alternative for approval, which could have included Alternative was identified as the Preferred Alternative ication of Preferred Alternative, which provides a erred Alternative was identified).

al comment submitted during the public circulation period ironmental Document. Where applicable, revisions were when a comment warranted any updates to the analysis. and Coordination, as well as Appendix F for more detailed nt process, and responses to formal comments received

ent, an Initial Study/Environmental Assessment analyzed two native and the Build Alternative. Both alternatives were ess. Following completion of the public circulation period ased on formal comments received during public circulation, d the analysis, including the purpose and need, and other ive for approval, which could have included the No Build entified as the Preferred Alternative (please refer to Section ive, which provides a detailed description of why the

nent is approved by Caltrans, Metro Board will receive al Document. Caltrans will then approve the Project ination with the California State Clearinghouse. These he project, Project Approval and Environmental sign phase, where the project design is advanced to final design is complete the project will move into the

require a public meeting for the Final Environmental claration (CEQA)/Finding of No Significant Impact Negative Declaration/Finding of No Significant Impact ded comments on the draft environmental document

ublic hearing was an opportunity to receive formal al document, an Initial Study/Environmental essed design related questions about the project on ments related to the environmental analysis to address oses.

ntal documentation and analysis under CEQA: a CEQA al Study (IS) with Mitigated Negative Declaration and an Environmental Impact Report (EIR). Yes, if a bry, then an EIR would not be required. Yes, if a project would not be required. For this project, an IS with ed.

| Comment<br>Number | Name                  | Comment                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHV-58-1          | Anonymous<br>Attendee | Who has the final say in approving this project                                                                                                                                                                                                                                                                          | Caltrans, as the CEQA and NEPA Le<br>environmental document and project<br>CEQA Responsible Agency, will rece                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PHV-59-1          | Renette Mazza         | Hello, again. Thank you. I do have a couple of questions. I saw in the plan that you guys were including lighting. Is the lighting going to be along 67th, the westbound side, at street level or is the lighting up above at the highway level?                                                                         | As answered in the public hearing, y<br>side. Additionally, the next phase of<br>design is advanced to 100% design<br>Metro, Caltrans, and the City of Long<br>Design.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PHV-60-1          | Anonymous<br>Attendee | I really hope all of our concerns will be taken into consideration                                                                                                                                                                                                                                                       | Thank you for your comment. As sta<br>concern submitted during the public<br>considered for the project, and all ap<br>accommodated and addressed in the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PHV-61-1          | Hilda                 | what is the point of this meeting if we do not have the power to ask for EIR                                                                                                                                                                                                                                             | The public hearing was an opportuni<br>environmental document, an Initial S<br>was organized following receipt of a<br>public circulation period. As stated d<br>also encouraged to provide commen<br>circulation period.                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                   |                       |                                                                                                                                                                                                                                                                                                                          | The Initial Study/Environmental Assess<br>studies conducted for the project, whi<br>incorporation of formal comments re-<br>determined that the project with mitig<br>environment, the Lead Agency (Calta<br>Impact Report (EIR) (CEQA) and/or<br>CEQA, the IS concluded that the pro-<br>than significant impact with mitigation<br>circulation and consideration of public<br>conclusion that the project would not<br>was unchanged, so a Mitigated Nega<br>not required. Similarly, under NEPA,<br>consideration of public comments, th<br>EA, it was concluded that the project<br>environment. Therefore, a Finding of<br>EIS was not required. |
| PHV-62-1          | Anonymous<br>Attendee | What would compel Caltrans to not approve this project? Please answer this now, while<br>the audience would most benefit from this answer, and not in the environmental study,<br>since the answer should be accessible to the community and the environmental document<br>is not, as previously stated by participants. | As answered in the public hearing, the<br>Study/Environmental Assessment and<br>Alternative and the Build Alternative.<br>making process. Following completi<br>additional information based on form<br>Project Development Team reviewed<br>other factors to identify the Preferred<br>Build Alternative. The Build Alternative                                                                                                                                                                                                                                                                                                                      |
|                   |                       |                                                                                                                                                                                                                                                                                                                          | Please note, it is Caltrans' Mission is that serves all people and respects t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

#### Response

ead Agency, has formally approved the final t report. Following Caltrans' approval, Metro, as a eive an update on the final environmental document.

res, the project will include lighting on the freeway the project is the design phase, where the project or Final Design. Continued coordination between g Beach regarding lighting will occur during Final

ted in the public hearing, any formal comment or circulation period, including the public hearing, were propriate and reasonable requests and concerns were e Final Environmental Document.

ity to receive formal comments on the draft Study/Environmental Assessment. The public hearing formal request from a member of the public during the uring the public hearing, members of the public were its following the meeting until the close of the public

essment (IS/EA) was prepared based on technical nich followed state and federal requirements. After ceived during the public circulation process, if it was gation would have a significant impact on the rans) would require preparation of an Environmental Environmental Impact Statement (EIS) (NEPA). Under bject had no impact, less than significant impact, or less n incorporated to affected resources. After public ic comments, the IS/EA was revised as needed. The t result in any significant impact to the environment ative Declaration (MND) was prepared and an EIR was an EA was prepared. After public circulation and he IS/EA was revised as needed. Based on the revised t as a whole would not have a significant impact on the f No Significant Impact (FONSI) was prepared and an

he Draft Environmental Document, an Initial halyzed two feasible alternatives, the No Build . Both alternatives were considered in the decision ion of the public circulation period and inclusion of hal comments received during public circulation, the d the analysis, including the purpose and need, and d Alternative for approval, which could include the No ve was identified as the Preferred Alternative.

s to provide a safe and reliable transportation network he environment. The purpose of the Project is to

| Comment<br>Number | Name                  | Comment                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|-----------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                       |                                                                                         | enhance deficient safety conditions of<br>on both the freeway mainline and rar<br>statewide average accident rate, exc<br>Boulevard interchange and the I-710<br>about 107 percent higher than the to<br>Alternative would not meet the purpor<br>The Final Environmental Document in<br>https://www.metro.net/projects/i-605-<br>projects. A hard copy of the Final En<br>Obama Neighborhood Library, 5870                                                                                                                                                                                                                            |
| PHV-63-1          | Anonymous<br>Attendee | What agency is responsible for the EIR? Who is doing the study?                         | As stated in the public hearing, Caltr<br>Metro is the project sponsor. Caltran<br>Document. Following Caltrans' appro<br>Final Environmental Document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                   |                       |                                                                                         | The environmental document, an Init<br>CEQA, and an Environmental Asses<br>NEPA was prepared under the direct<br>Study/Environmental Assessment (IS<br>conducted for the project, which follo<br>IS concluded that the project had no<br>significant impact with mitigation inco<br>and consideration of public comment<br>that the project would not result in an<br>unchanged, so a Mitigated Negative<br>Environmental Impact Report (EIR) w<br>prepared. After public circulation and<br>revised as needed. Based on the rev<br>would not have a significant impact of<br>Significant Impact (FONSI) was prep<br>was not required. |
| PHV-64-1          | Anonymous<br>Attendee | Why do they keep asking the same question over and over again, it seems argumentative!  | Thank you for your feedback. Your c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PHV-65-1          | Anonymous<br>Attendee | Not Productive                                                                          | Thank you for your feedback. Your c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PHV-66-1          | Bridget               | Will the height start from Atlantic ramp?                                               | Thank you for your comment. See C<br>regarding the location of the soundw<br>be constructed on the edge of the free<br>Cherry Avenue off-ramp, but not on the<br>existing noise barrier EXB-4 and has                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PHV-67-1          | Anonymous<br>Attendee | the answer has not been given, over and over again, and the community deserves to know. | Thank you for your comment. The pu<br>comments on the draft environmenta<br>Assessment. The project team addre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

#### Response

on this segment of the SR-91 freeway. Accident rates mps are 30 percent to 73 percent higher than the total cept for the segment between the Long Beach ) interchange, where the actual total accident rate is otal statewide average accident rate. The No Build ose and need for the project.

is accessible to view at the project website: <u>-corridor-hot-spots-program/SR-91-early-action-</u> ovironmental Document can be viewed at the Michelle Atlantic Avenue, Long Beach, CA 90805.

rans is the lead agency under CEQA and NEPA, and is will formally approve the Final Environmental oval, the Metro Board will receive an update on the

tial Study with Mitigated Negative Declaration under sement with Finding of No Significant Impact under tion of Caltrans and Metro. The Initial S/EA) was prepared based on technical studies bwed state and federal requirements. Under CEQA, the impact, less than significant impact, or less than orporated to affected resources. After public circulation ts, the IS/EA was revised as needed. The conclusion my significant impact to the environment was Declaration (MND) was prepared and an was not required. Similarly, under NEPA, an EA was d consideration of public comments, the IS/EA was vised EA, it was concluded that the project as a whole on the environment. Therefore, a Finding of No pared and an Environmental Impact Statement (EIS)

comment has been noted for the record.

comment has been noted for the record.

comment Response PHV-6-1 for a detailed discussion vall at the Atlantic Avenue on-ramp. The barrier would be eway from approximately Atlantic Avenue on-ramp to the on-ramp. Barrier BA-4 would be consistent with s a height of 14 feet.

ublic hearing was an opportunity to receive formal al document, an Initial Study/Environmental essed design related questions about the project on
| Comment<br>Number | Name                | Comment                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                     |                                                                                                                                                                                                                                              | the spot, while documenting all comr<br>when the public circulation period clo                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PHV-68-1          | Hilda               | The two years of construction can be the difference between the life and death for some residents in the area and between the healthy development for a child's respiratory system. We need to have a EIR to ensure our health is protected  | Construction would be completed in<br>distinct phases. A Construction Stag<br>project (design phase) to detail effort<br>construction and minimize exposure                                                                                                                                                                                                                                                                                                                                                                                               |
|                   |                     |                                                                                                                                                                                                                                              | An Initial Study with Mitigated Negati<br>Assessment with Finding of No Signi<br>project. See Comment Response PH<br>environmental document. The IS/EA<br>community and from that considerati<br>developed and incorporated into this                                                                                                                                                                                                                                                                                                                     |
|                   |                     |                                                                                                                                                                                                                                              | During construction, the Project will i<br>impacts to the community. Please re<br>Mitigation Summary for an updated I<br>minimize construction impacts to the<br>not limited to:                                                                                                                                                                                                                                                                                                                                                                          |
|                   |                     |                                                                                                                                                                                                                                              | <ul> <li>Modify construction staging to exadjacent residents (Measure PF-language).</li> <li>Measure PF-COM-4 has been at and Metro will consider and incojustice and community values by directly impacted.</li> <li>Use of equipment and tools with updated to include this additionate.</li> <li>During final design, use of rubber Atlantic Avenue on-ramp and Ch term noise reduction method (AV an Avoidance and Minimization in Construction activity sources are measures for the control of fugiti (Measure PF-AQ-14 is a new method)</li> </ul> |
| PHV-69-1          | Elsa Tung (she/her) | Can you clarify the timeline for the Final Environmental Document, the presentation to<br>Metro Board (where they will receive and file), and the decision-making timeline for<br>CalTrans? And where in this process is the PUBLIC engaged? | Following the end of public circulatio<br>CEQA/NEPA guidelines, the Project<br>formal comments received on the IS,<br>and Finding of No Significant Impact<br>Board will then receive an update on<br>in Summer 2021. After this, Metro sta<br>the final design phase of the project.                                                                                                                                                                                                                                                                     |
|                   |                     |                                                                                                                                                                                                                                              | In addition to the public hearing, the accordance with the requirements sp notices during the public circulation p two local newspapers, the Long Bea                                                                                                                                                                                                                                                                                                                                                                                                     |

## Response

ments related to the environmental analysis to address oses.

three stages, with Stage 1 further separated into four ing Plan will be developed in the next phase of the ts to modify construction staging to expedite time to adjacent residents (PF-COM-3).

ive Declaration under CEQA, and Environmental ificant Impact under NEPA was prepared for this HV-61-1 for a detailed discussion regarding the level of for this project analyzed construction impacts to the ion, the avoidance and minimization measures were project.

incorporate measures that will minimize construction afer to Appendix A - Avoidance, Minimization, and/or list of measures, including additional measures that will a community. The additional measures include but are

xpedite construction and minimize exposure time to -COM-3 has been updated to include this additional

dded, which states that during Final Design, Caltrans proprate measures that support equity, environmental minimizing construction impacts to those who may be

minimal noise/vibration (Measure AVM-NOI-2 was al language).

erized asphalt on the re-constructed portion of the nerry Avenue off-ramp would be explored to as a long-VM-NOI-4 is a new measure that has been included as measure).

e required to implement best available control ive dust in order to comply with SCAQMD Rule 403 easure that has been included as a project feature).

n on March 1, 2021, and in accordance with Development Team reviewed and responded to /EA and prepared a Mitigated Negative Declaration t. Caltrans has approved the MND/FONSI. The Metro in the Final Environmental Document, anticipated to be aff will continue to collaborate with stakeholders during

Project Development Team engaged the public in becified under CEQA and NEPA. Residents received period, and a Notice of Availability was published in the Press-Telegram (English) and La Opinion

| Comment<br>Number | Name          | Comment                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |               |                                                                                                                                                                                                                                                                                                | (Spanish), when the public circulation<br>newspaper ads were published wher<br>additional details about the public he<br>updated accordingly to include project<br>Spanish), the FAQ (in English and S<br>Spanish). Throughout the project, the<br>meetings with the City of Long Beach<br>December 16, 2020, a community m<br>was held at the request of Vice Mayor<br>residents and keep the line of comm<br>members. During public circulation, a<br>the public were encouraged to review<br>comments. |
|                   |               |                                                                                                                                                                                                                                                                                                | Please refer to Chapter 4 - Commen<br>Assessment, which describes the lim<br>residents in proximity to the Project A<br>East 68th Street, to the north of Artes<br>the Union Pacific Railroad that runs b                                                                                                                                                                                                                                                                                                 |
| PHV-70-1          | Julie Willett | The wall at the onramp outside the of the onramp is at ground level at Millmark and slopes<br>up to the top of the sound wall level at about where the ramp signal is. Will there be a 14<br>foot sound wall all the way to the beginning of the onramp or at least to the end of<br>Millmark? | Thank you for your comment. See Caregarding the location of the soundw<br>be constructed on the edge of the free<br>retaining wall at the corner of 67th St<br>ramp to the vicinity of the existing so<br>the on-ramp. Barrier BA-4 would be a<br>height of 14 feet.                                                                                                                                                                                                                                      |
| PHV-71-1          | Hilda         | if the project moves forward can we keep the conversation with metro to ensure mitigation measures are in place and the health of the community is protected?                                                                                                                                  | Thank you for your comment. All aver<br>project features are included in the E<br>the project. Please refer to Appendix<br>Summary for the list of measures inco<br>purpose of the ECR is to track the m<br>completed during their appropriate p<br>construction contractor comply with a                                                                                                                                                                                                                 |
|                   |               |                                                                                                                                                                                                                                                                                                | Under PF-COM-2, a Public Awarene<br>Transportation Management Plan to<br>bicyclists and pedestrians. The Publi<br>notifying the public of road closures,<br>and would include a telephone hotlin                                                                                                                                                                                                                                                                                                          |
|                   |               |                                                                                                                                                                                                                                                                                                | Continuing dialog about the status of<br>which will be updated by Metro Outre<br>progress. Project website: <u>https://ww</u><br>program/SR-91-early-action-projects                                                                                                                                                                                                                                                                                                                                      |
| PHV-72-1          | Bridget       | Addressing the sound wall height, will the wall start from Atlantic entrance's ramp?                                                                                                                                                                                                           | Thank you for your comment. See Corregarding the location of the soundwork be constructed on the edge of the free                                                                                                                                                                                                                                                                                                                                                                                         |

### Response

In period began, and then a second round of In the circulation period was extended to provide earing. Additionally, Metro's project website has been oct materials, such as the fact sheet (in English and epanish), and the presentation materials (English and ere have also been ongoing interagency coordination h and Gateway Cities Council of Governments. On heeting with the Hamilton Neighborhood Association or Rex Richardson to provide a project update to hunication open between residents and project team and reiterated during the public hearing, members of w the draft environmental document and provide

its and Coordination of the Initial Study/Environmental nits of household notified of the Notice of Availability: Area (owners or occupants of properties to the south of sia Boulevard, to the east of I-710, and to the west of between Cherry and Paramount Avenues).

comment Response PHV-6-1 for a detailed discussion vall at the Atlantic Avenue on-ramp. The barrier would beeway from approximately the edge of the existing treet and Millmark Avenue on the Atlantic Avenue onbund wall on the Cherry Avenue off-ramp, but not on consistent with existing noise barrier EXB-4 and has a

bidance, minimization, and mitigation measures, and Environmental Commitment Record (ECR) prepared for (A - Avoidance, Minimization and/or Mitigation cluded in the Environmental Commitments Record. The heasures/project features to ensure that they are hase of the project. Caltrans requires that the all measures in the ECR.

ess Campaign would be implemented as part of the address access impacts to the community including ic Awareness Campaign would include procedures for noise, dust, and other construction-related activities he for the public to report concerns.

f this project can occur via the Metro project website each with project-specific information as the project <a href="http://www.metro.net/projects/i-605-corridor-hot-spotsby-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by-corridor-hot-spots-by

comment Response PHV-6-1 for a detailed discussion vall at the Atlantic Avenue on-ramp. The barrier would beeway from approximately Atlantic Avenue on-ramp to

| Comment<br>Number | Name                   | Comment                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                        |                                                                                                                                                                                                                                                                                                           | Cherry Avenue off-ramp, but not on t existing noise barrier EXB-4 and has                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PHV-73-1          | Anonymous<br>Attendee  | Can you explain the polition mitigation devices currently built into the plan?                                                                                                                                                                                                                            | Thank you for your comment. The Pr<br>by the South Coast Air Quality Mana<br>standardized procedures for minimiz<br>fourteen Air Quality project features<br>for this project. These project features<br>equipment and materials storage site<br>practicable, and to the extent feasible<br>congestion and idling vehicles. Pleas<br>and/or Mitigation Summary for the lis<br>Commitments Record. Project avoids<br>include, but are not limited to Air Qua<br>The Project will include CO2 sequest<br>emissions (AVM-VIS-2). The Project<br>of the construction contract through the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PHV-74-1          | Hilda                  | Can Metro open jobs to the community                                                                                                                                                                                                                                                                      | Currently, there is no mechanism in p<br>infrastructure projects are reserved for<br>every effort to hire qualified local resist<br>the time of construction. Should fede<br>the selected Build Alternative, the im<br>all Title VI requirements, which prohist<br>national origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PHV-75-1          | Hilda                  | but the impacts is in our health and this community is a vulnerable community                                                                                                                                                                                                                             | Thank you for your comment. Your c<br>Project is needed to improve existing<br>higher than the statewide average du<br>spaced local interchanges at I-710 o<br>Project environmental document disc<br>incorporates all standard measures a<br>impacts to the community. Please re<br>Mitigation Summary for the complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PHV-76-1          | Downtown Long<br>Beach | won't the added lane cause drivers to travel even further to the HOV and from the HOV to Cherry off ramp?                                                                                                                                                                                                 | Yes, the motorist would have an add<br>the Atlantic On-Ramp or from the I-7<br>you are in). However, the lengthening<br>length in the proposed auxiliary lane<br>additional lane. This would not be the<br>because the Cherry Off-Ramp will no<br>the original exit lane at Cherry Ave).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PHV-77-1          | Carina Rangel          | Spanish: Hola mi nombre es Carina Rangel. Estoy en sexto grado en la Hamilton Middle<br>School Hamilton; mi preocupación es, ya que van a poner en seguridad nuestra salud<br>respiratoria, ¿ como van a segurar nuestra salud respiratoria ya que temenos que caminar<br>desde la casa hasta la escuela? | Thank you for your comment, your construction, several measures will be Please refer to Appendix A - Avoidar complete list of measures. These measures of low-emission anticipated to include equipment measures (see also AVM-EN-4); the project include to the project include equipment measures (see also AVM-EN-4); the project include equipment measures (see also AVM- |

## Response

the on-ramp. Barrier BA-4 would be consistent with s a height of 14 feet.

roject will comply with construction standards adopted agement District (SCAQMD) as well as Caltrans ting air pollutants during construction. There are included in the Environmental Commitments Record es include developing a dust control plan, locating es as far away from residential and park uses as e scheduling and routing construction traffic to reduce se refer to Appendix A - Avoidance, Minimization st of measures included in the Environmental ance, minimization, and /or mitigation measures ality, Noise, Hazardous Waste/Materials measures. tering landscape concepts to help contain/reduce CO2 will also comply with dust reducing measures as part the construction specifications.

place to guarantee employment opportunities from for local residents. Caltrans and/or Metro will make sidents, within existing federal and state labor laws, at eral funding be used to complete the improvements in aplementing agency would be required to comply with ibit hiring discrimination on the basis of race, color, or

concerns are noted and are being considered. The g freeway operations that result in accident rates ue to the short weaving distances between the closely on-ramps, Atlantic Avenue, and Cherry Avenue. The cusses potential impacts to the community and and applicable measures to avoid and minimize effer to Appendix A - Avoidance, Minimization, and/or e list of measures.

ditional lane to weave over to for traffic entering from 710 to EB SR-91 Connectors (depending on the lane of the HOV enter and exit area and the additional provides the distance needed to weave the e case for traffic exiting at the Cherry Off-Ramp ow have a second optional lane to exit from (which is

oncerns are noted and are being considered. During be in place to minimize impact to the community. Ince, Minimization, and/or Mitigation Summary for the easures include, but are not limited to: Caltrans being in construction equipment and vehicles, which is eting the newer Tier 4 emission standards in the future cludes fourteen air quality measures (PF-AQ-1 through

| Comment<br>Number | Name | Comment                                                                                                                                                                                                   |                                                                                                                                                                                                       |
|-------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |      | English: Hi my name is Carina Rangel. I am in sixth grade at Hamilton Middle School. My worry is, how are they going to ensure our respiratory health is okay, since we have to walk from home to school? | PF-AQ-14) to reduce and minimize of<br>and include implementation of dust of<br>Project will include CO2 sequestering<br>emissions (AVM-VIS-2). Additionally<br>in three stages to expedite construct |

## Response

construction related air quality effects to the community control measures per SCAQMD fugitive dust; and the ng landscape concepts to help contain/reduce CO2 y, under PF-COM-3, construction would be completed tion and minimize exposure time to adjacent residents.

### Table 44: Written Comments from the February 18, 2021 Public Hearing

| Letter | Name                                                                                                                                                            | Comment                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHW-1  | Natalia Ospina         Is there a link where this presentation is publicly available? I was told it would be on the 605 website but I can't find it. Thank you. | This question was answered during to<br>provided to the Public Hearing attend<br>https://www.metro.net/projects/i-605-<br>projects/ . Information, reports, and for<br>projects may be found by expanding<br>webpage.                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        |                                                                                                                                                                 |                                                                                                                                                                                                                                              | The English language version of the link: <u>http://media.metro.net/2021/EB-Hearing+Presentation+English_2021</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|        |                                                                                                                                                                 |                                                                                                                                                                                                                                              | The Spanish language version of the<br>http://media.metro.net/2021/EB-SR-9<br>Hearing+Presentation+Spanish.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PHW-2  | Marlene Mantanez                                                                                                                                                | Chat is disabled for attendees, so cannot see any links                                                                                                                                                                                      | Following receipt of this question, Me view.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PHW-3  | leonarddonjuan                                                                                                                                                  | it wion't imnpact our neighborhood? really? what do you call the contamination by small<br>particles produced by the contruction and you have no plan to contain that. think about<br>those of us who live next to it and suffer from asthma | As clarified in the hearing, the project<br>construction and your concerns are in<br>Appendix A - Avoidance, Minimization<br>that will minimize construction impact<br>measures will be in place to minimize<br>with construction standards adopted<br>(SCAQMD) as well as Caltrans stand<br>during construction. The project inclu<br>PF-AQ-14) to reduce and minimize of<br>community, including dust control me<br>dust which include street sweeping a<br>include CO2 sequestering landscape<br>AVM-VIS-2).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PHW-4  | leonarddonjuan                                                                                                                                                  | can we have you guys cite scientific studies when you make those statments like it won't affect our comunity. can you site sources? any studies?                                                                                             | A list of technical studies prepared for<br>Initial Study/Environmental Assessm<br>public hearing, a clarification was ma<br>community during construction. How<br>impacts. Please refer to Appendix A<br>for the complete list of measures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PHW-5  | leonarddonjuan                                                                                                                                                  | what guarantees for the health of the residents being impacted by the contruction are you willing to provide                                                                                                                                 | As stated at the hearing, your concerconstruction, several measures will be Please refer to Appendix A - Avoidar complete list of measures. These measures of low-emission anticipated to the use of low-emission anticipated to include equipment measures (see also AVM-EN-4); the project include PF-AQ-14) to reduce and minimize of and include implementation of dust of the second se |

# **Appendix F. Comments on Draft Environmental Document**

#### Response

the public hearing. The link to the presentation was dees during the hearing. The project website is: -corridor-hot-spots-program/SR-91-early-actionfact sheets for this project and other SR-91 early action the sidebar menu on the right hand side of the

presentation can also be accessed via the following -SR-91-Atlantic-to-Cherry-Public--02-17+Final.pdf

presentation can be accessed via the following link: 91-Atlantic-to-Cherry-Public-

etro was able to enable the chat for all attendees to

t would result in temporary impacts during noted and are being considered. Please refer to on, and/or Mitigation Summary for a list of measures ts to the community. During construction, several e impact to the community. The Project will comply by the South Coast Air Quality Management District dardized procedures for minimizing air pollutants udes fourteen air quality measures (PF-AQ-1 through construction related air quality effects to the easures that will be implemented per SCAQMD fugitive and water trucks (PF-AQ-14). The Project will also e concepts to help contain/reduce CO2 emissions (see

or this project were listed and referenced in the Draft nent on page 246, following Chapter 6. During the ade that the project would have certain impacts to the vever, the project includes measures to minimize those - Avoidance, Minimization, and/or Mitigation Summary

rns are noted and are being considered. During be in place to minimize impact to the community. nce, Minimization, and/or Mitigation Summary for the easures include, but are not limited to: Caltrans being n construction equipment and vehicles, which is eting the newer Tier 4 emission standards in the future cludes fourteen air quality measures (PF-AQ-1 through construction related air quality effects to the community control measures per SCAQMD fugitive dust; and the

| Letter | Name                              | Comment                                                                                                             |                                                                                                                                                                                                        |
|--------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                   |                                                                                                                     | Project will include CO2 sequestering emissions (AVM-VIS-2).                                                                                                                                           |
| PHW-6  | Calvena Sisk,<br>Virginia Leonard | Will you be improving the soundwall on the WB 91 when our Loop Project is started on the WB side bordering Eleanor? | Thank you for your comment. As ans<br>Avenue to Cherry Avenue project on<br>SR-91. No improvements on the wes                                                                                          |
| PHW-7  | leonarddonjuan                    | How high will our wall be compared to the high walls on the 405 and Orange county areas?                            | Noise Studies and Caltrans Standard<br>NADR recommends a height of 14ft<br>account the Noise Study Report (NS                                                                                          |
| PHW-8  | leonarddonjuan                    | How will parking be impacted?                                                                                       | The project does not have any perma<br>the north side of E 67th St will be ten<br>anticipated that the walls along 67th<br>construction impacts to adjacent resi<br>would take approximately 4 months. |
| PHW-9  | Anonymous<br>Attendee             | Who determines the final decision to move forward with the project                                                  | Caltrans, as the CEQA and NEPA Le<br>environmental document and project<br>CEQA Responsible Agency, will rece                                                                                          |
| PHW-10 | Anonymous<br>Attendee             | Thank you for your answer on the soundwalls. That is very informative.                                              | Thank you for your feedback. Your c                                                                                                                                                                    |
| PHW-11 | Julie Willett                     | Millmark is on the east side                                                                                        | Thank you for your feedback. Your c                                                                                                                                                                    |

### Response

g landscape concepts to help contain/reduce CO2

swered in the public hearing, the EB SR-91 Atlantic ily includes improvements on the eastbound side of stbound side of SR-91 are included with this project.

ds will determine required sound wall heights. The for the noise barrier. The recommendation takes into SR), geometric and safety standards.

anent parking impacts. However, the parking areas on mporarily impacted during the construction. It is Street will be built in segments to minimize idents. It is anticipated each segment's construction

ead Agency, has formally approved the final t report. Following Caltrans' approval, Metro, as a eive an update on the final environmental document.

comment has been noted for the record.

comment has been noted for the record.