

Noise Abatement Decision Report

Vol. II – Figures

State Route 710 North Study

County of Los Angeles

07-LA-710 (SR 710)

E.A. 187900

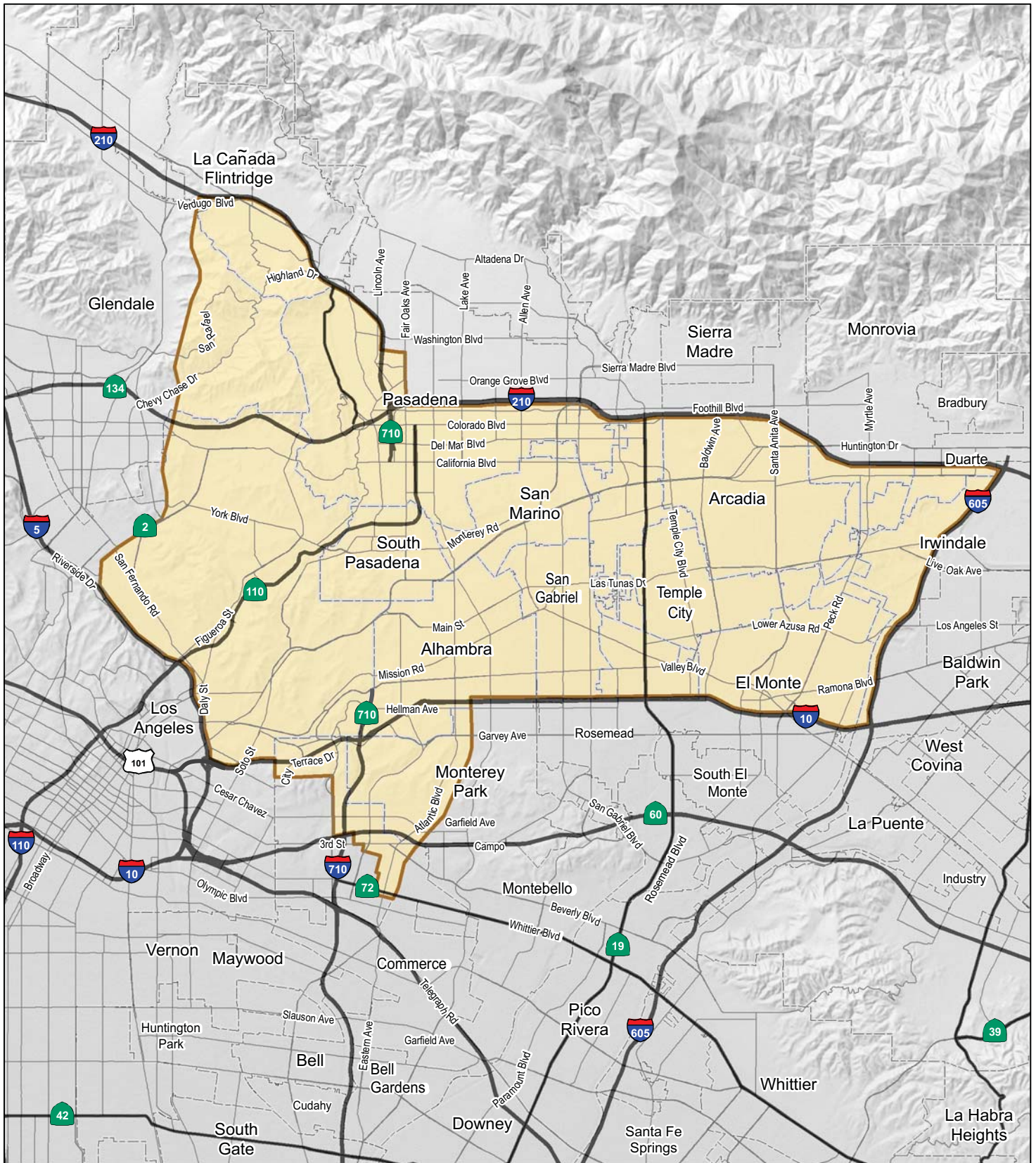
EFIS 0700000191

September 2014

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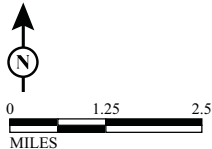
LEGEND
 SR 710 North Study Area

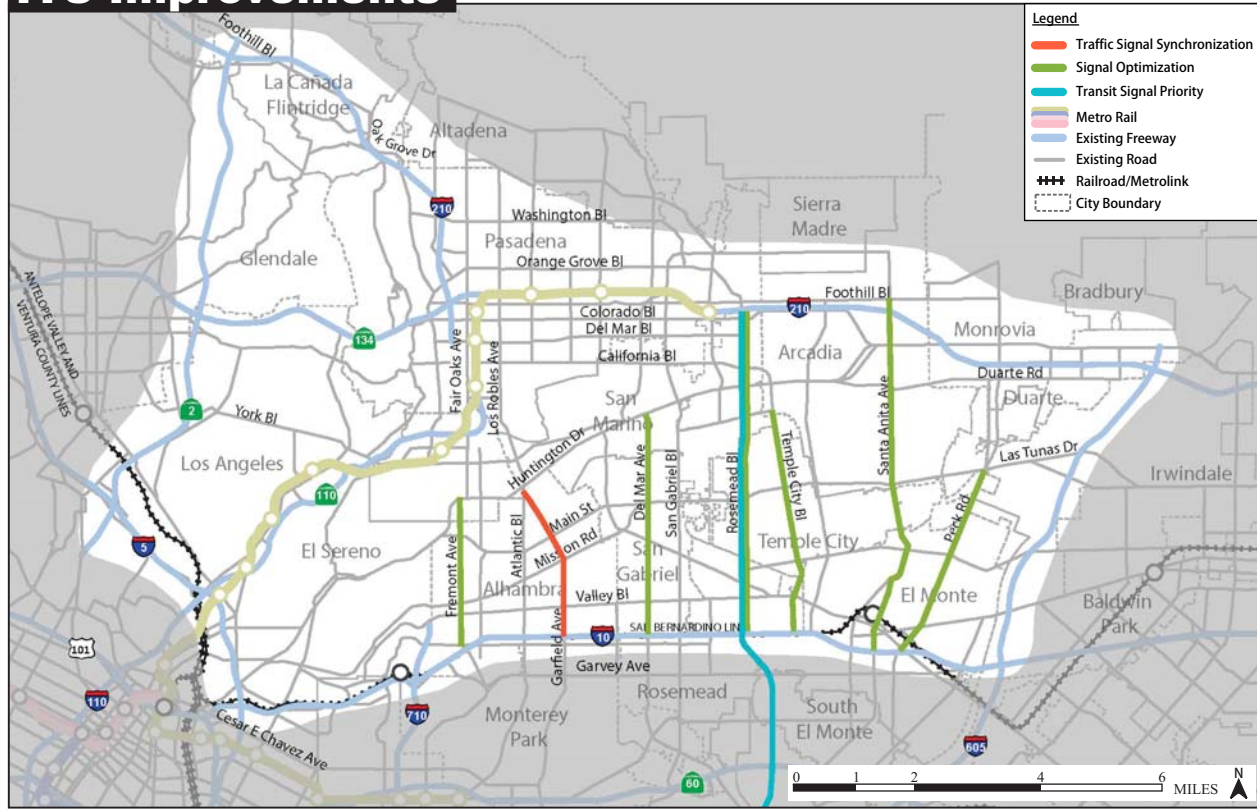
FIGURE I-1



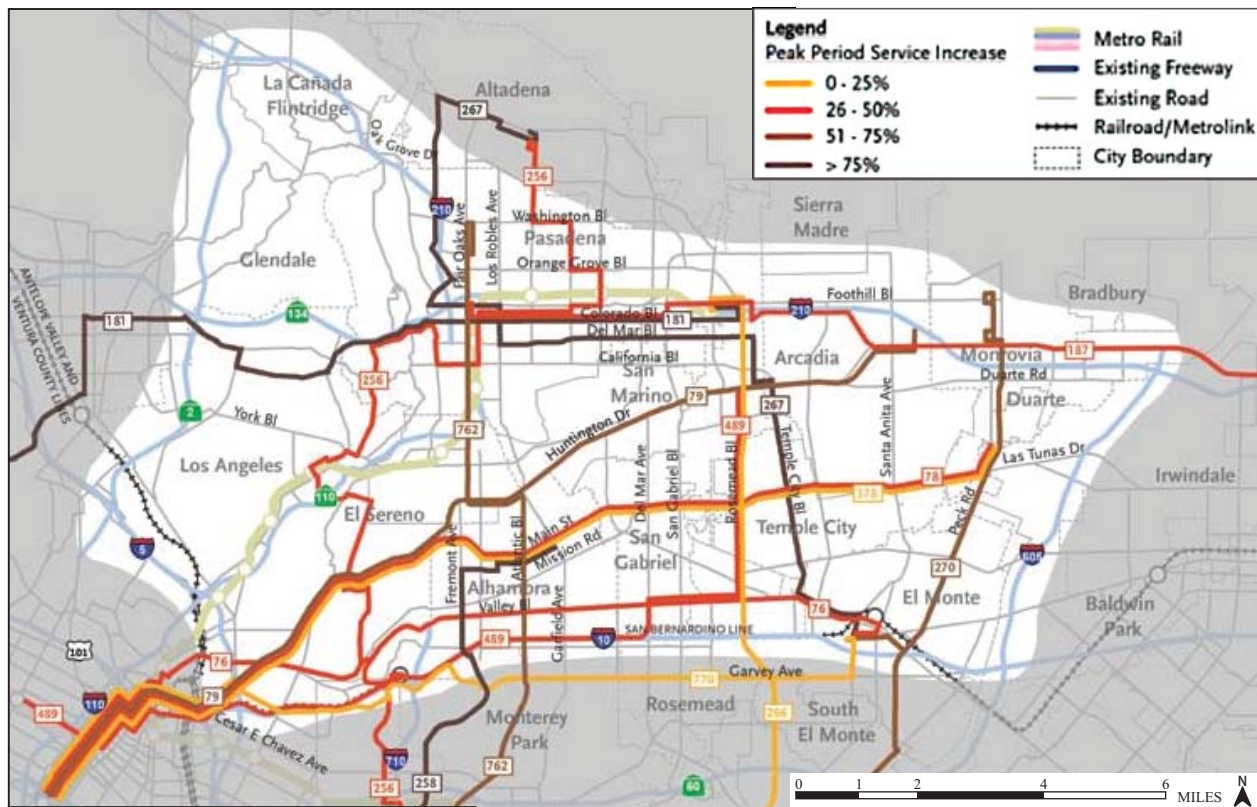
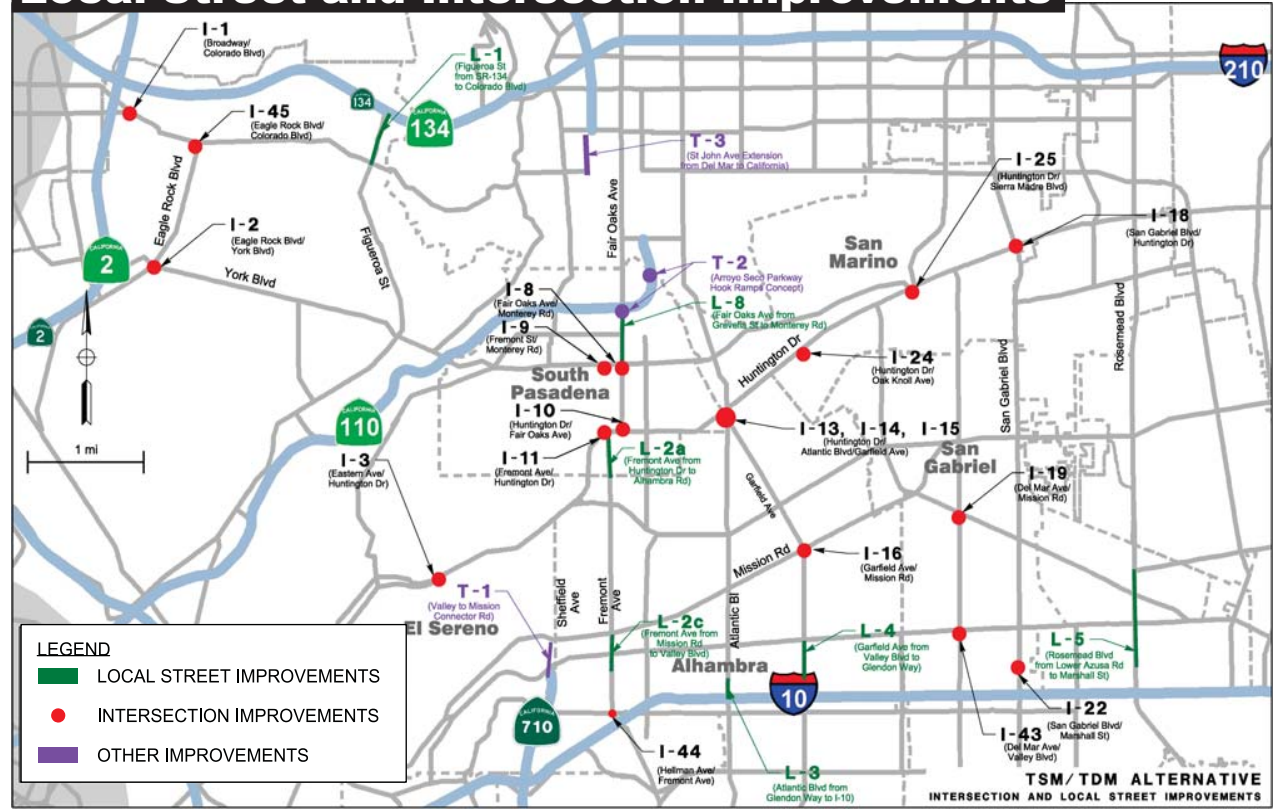
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SR 710 North Study
 Project Location
 07-LA-710 (SR 710)
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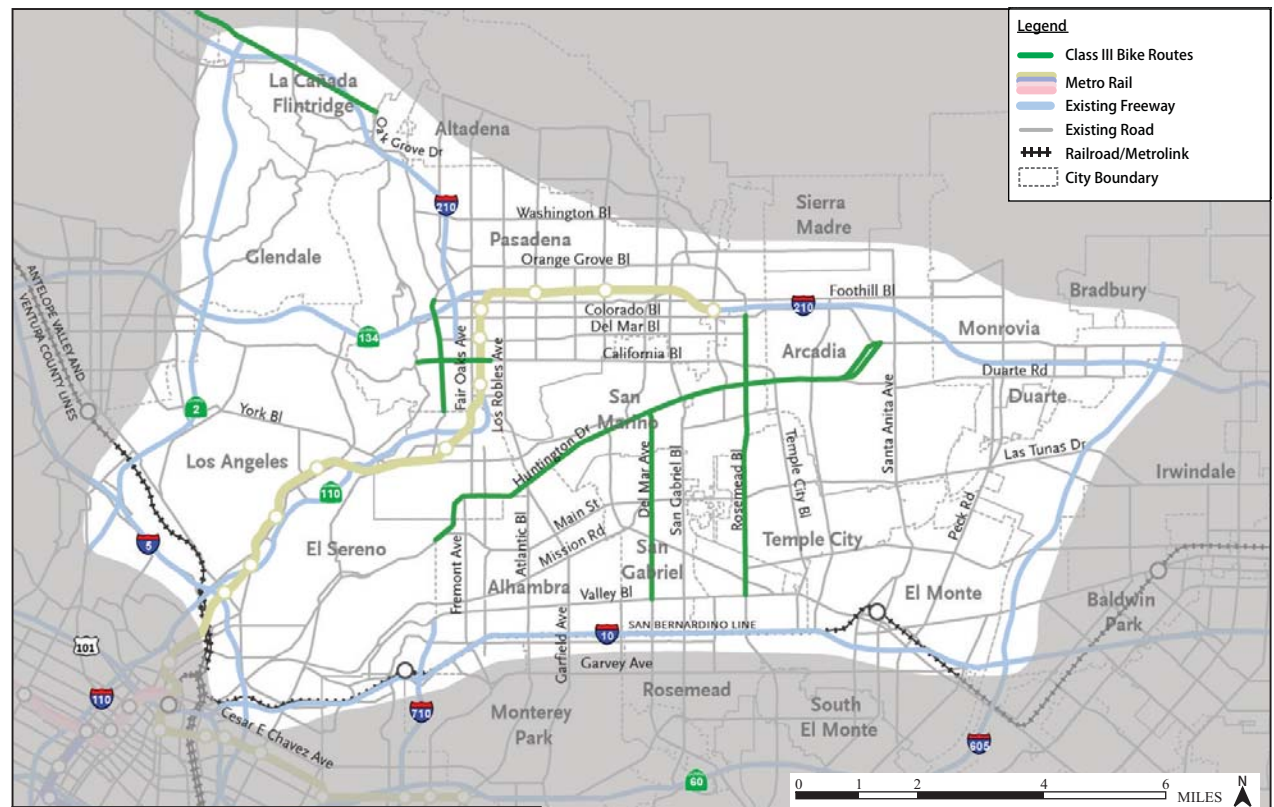
ITS Improvements



Local Street and Intersection Improvements



Transit Refinement



Active Transportation

FIGURE I-3

SR 710 North Study
TSM/TDM Alternative

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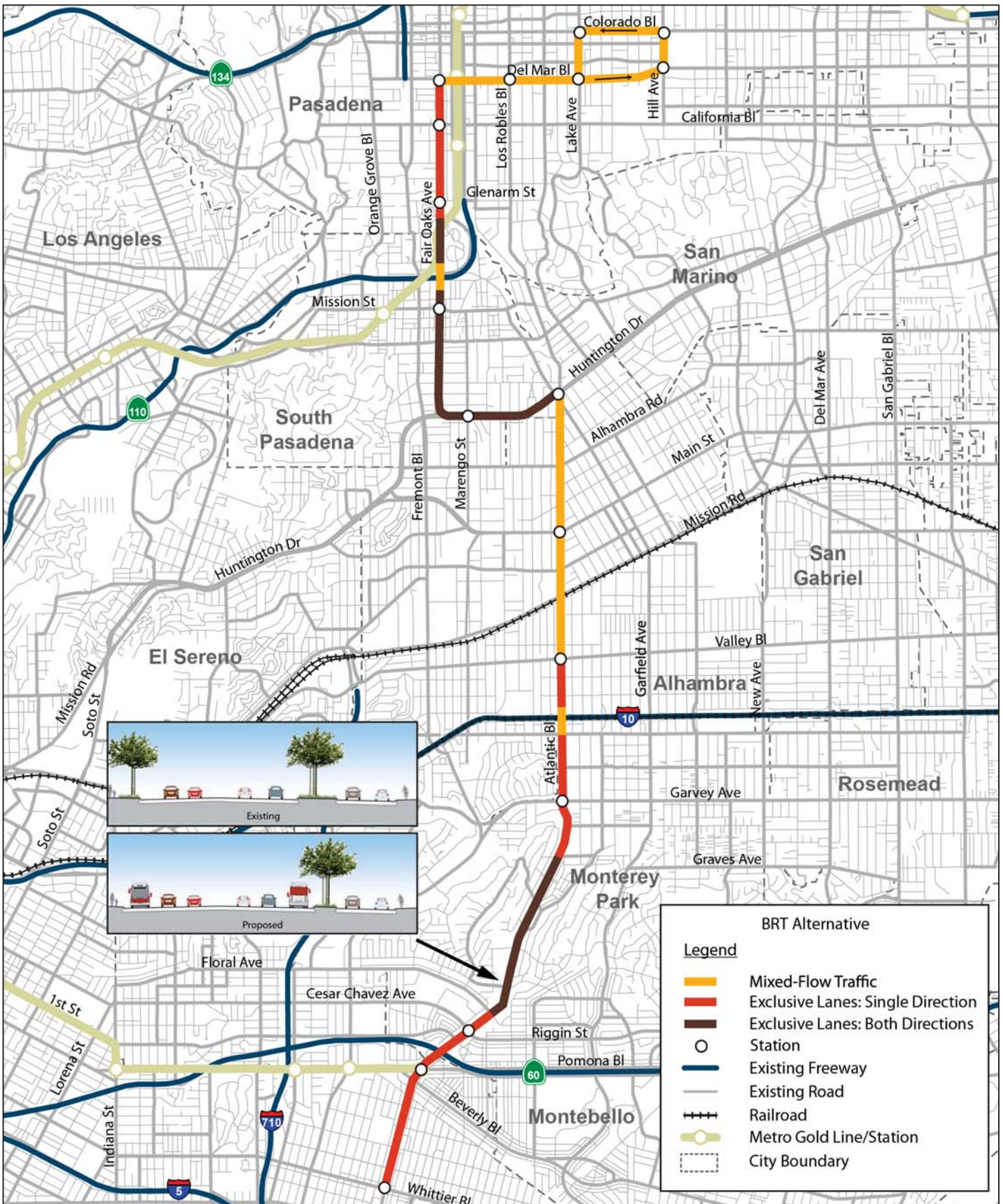


FIGURE 1-4



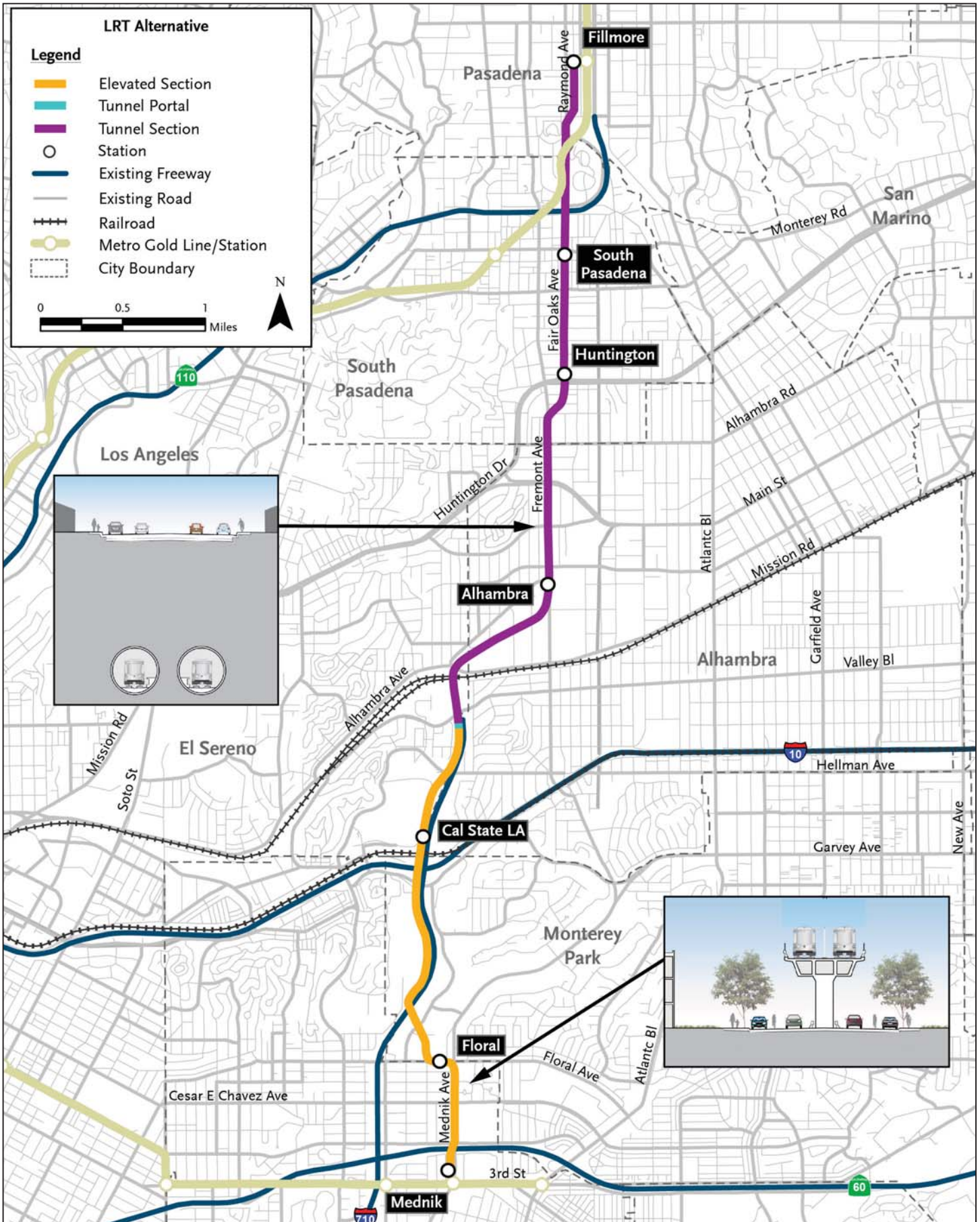
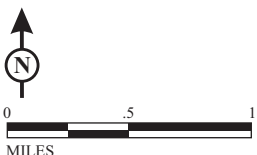


FIGURE 1-5



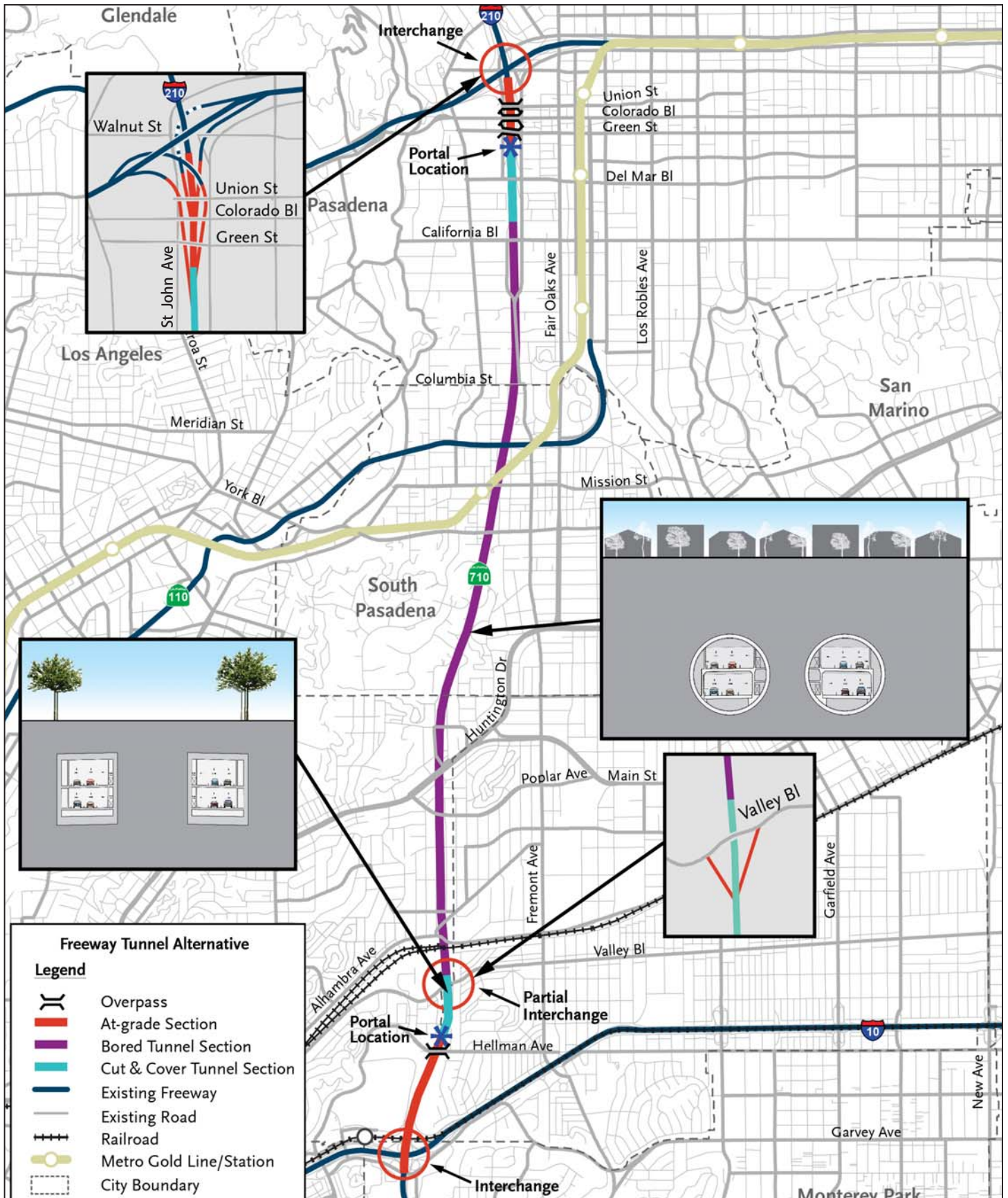


FIGURE 1-6



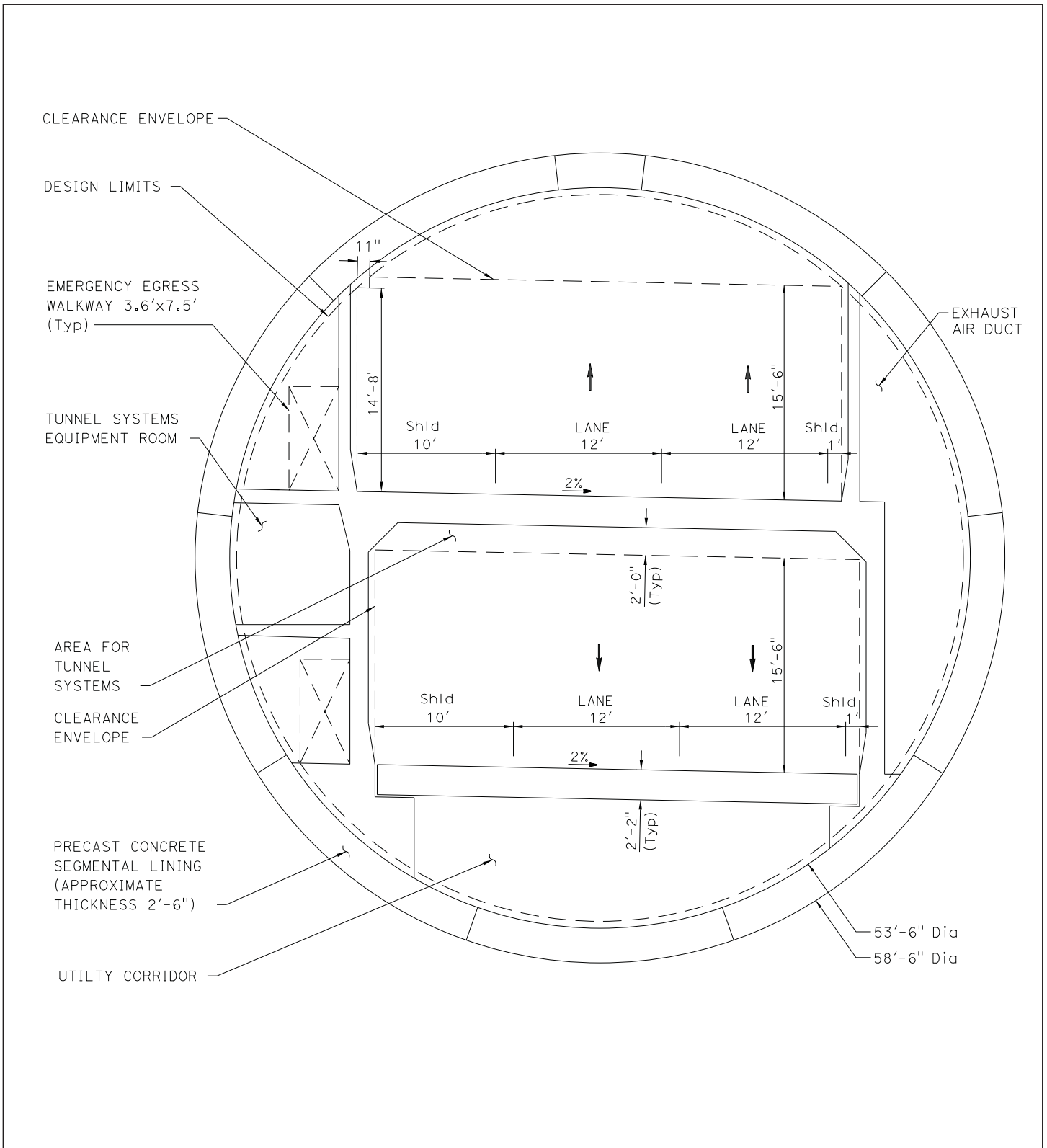
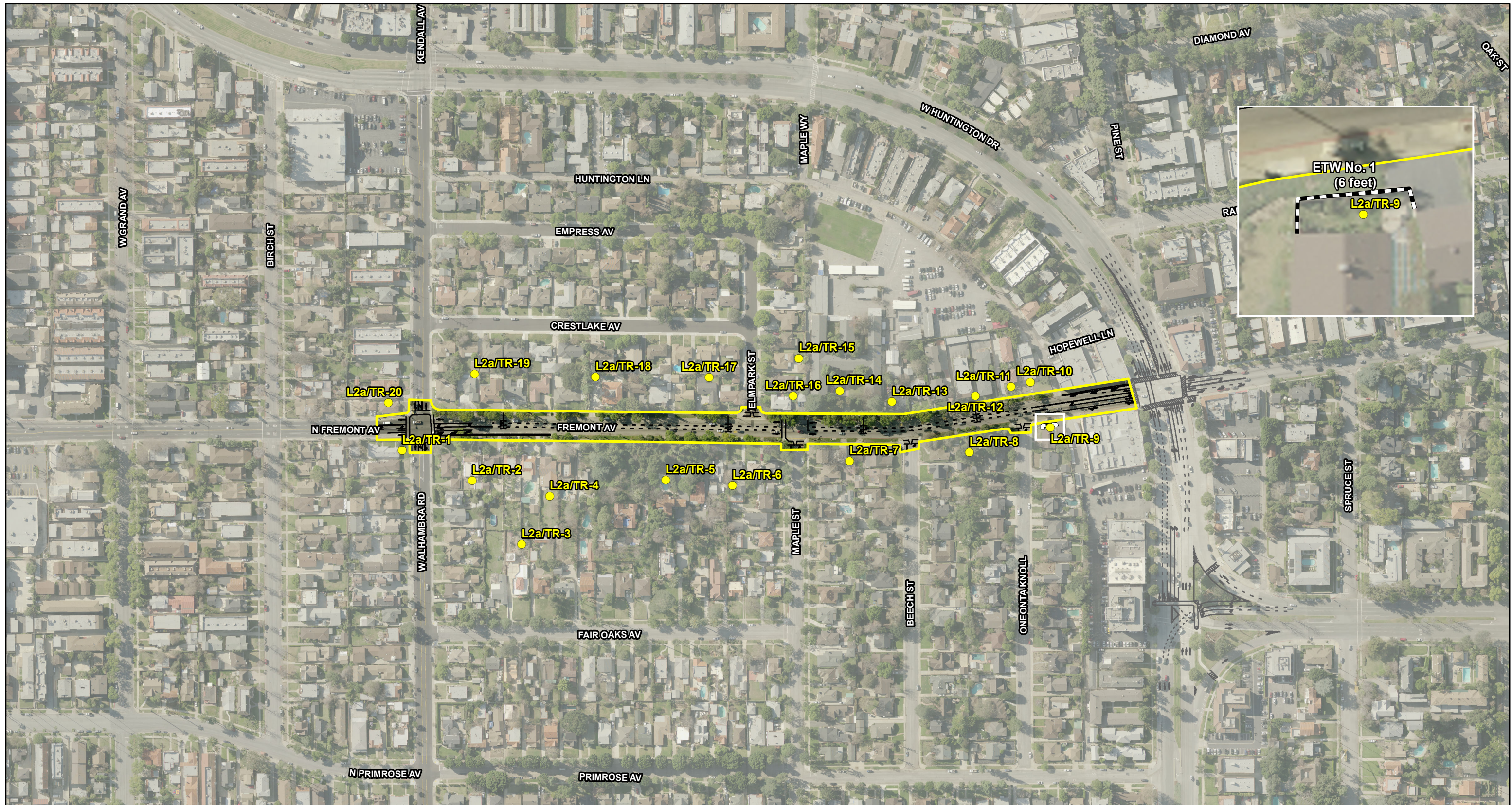


FIGURE 1-7

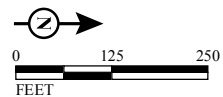
SR 710 North Study
 Freeway Tunnel Alternative
 Single Bore Cross Section

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LEGEND

- TSM/TDM Alternative
- Existing Walls
- TSM/TDM Roadway Geometrics
- Modeled Noise Barriers
- Proposed Right-of-Way
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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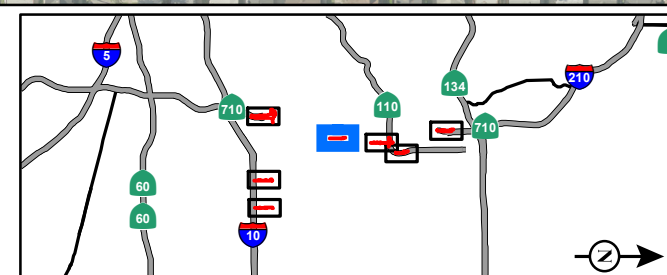
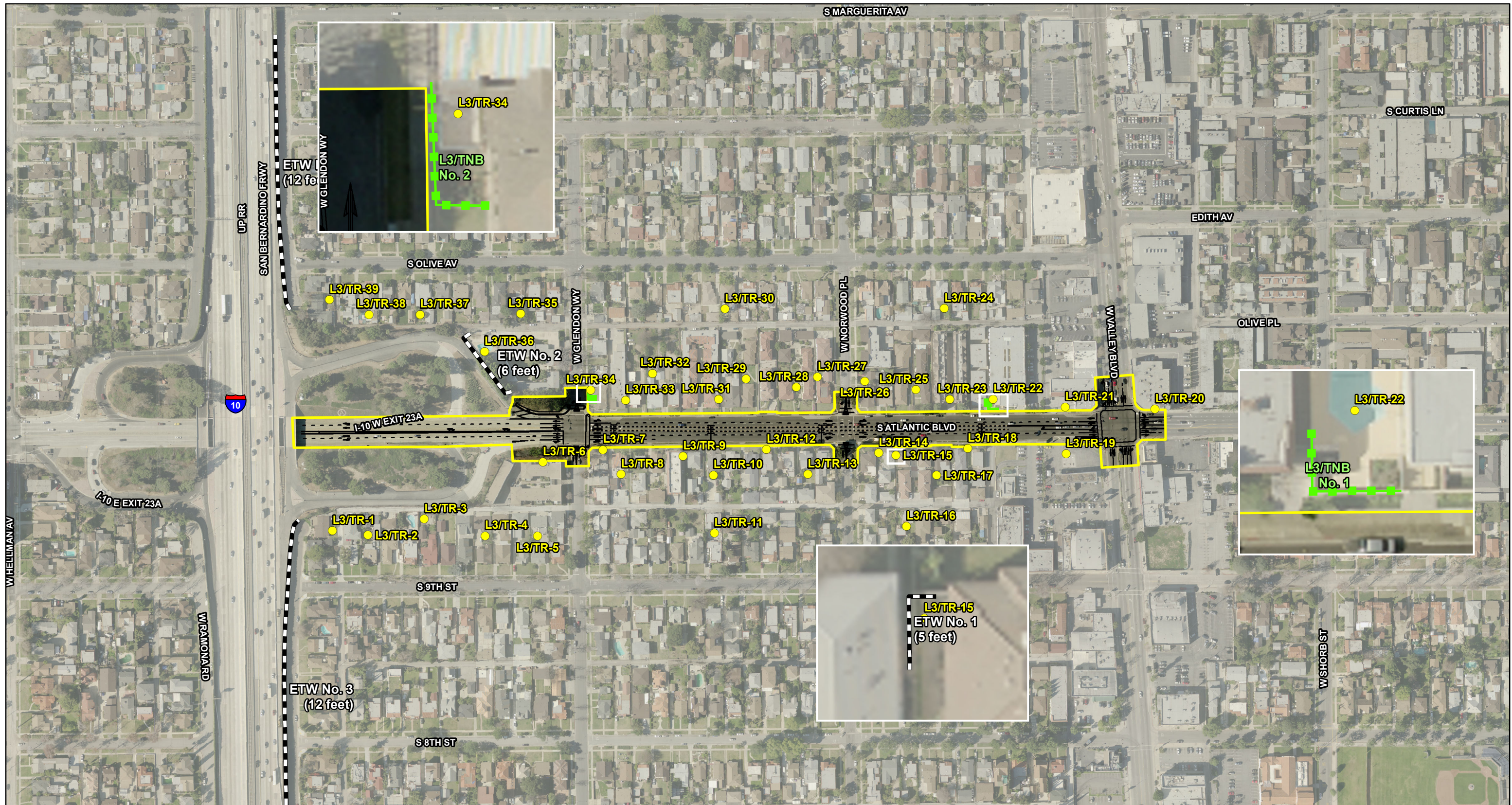


FIGURE 2-1
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SR 710 North Study

Modeled Noise Barriers for the TSM/TDM Alternative – L-2a

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LEGEND

- TSM/TDM Alternative
- TSM/TDM Roadway Geometrics
- Proposed Right-of-Way
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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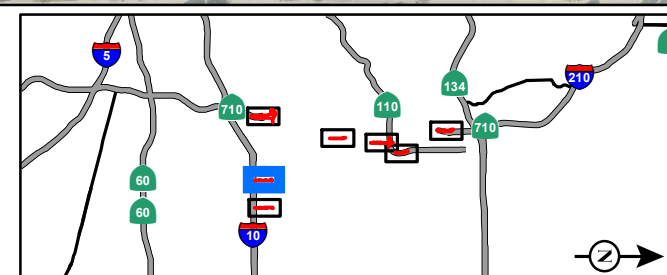
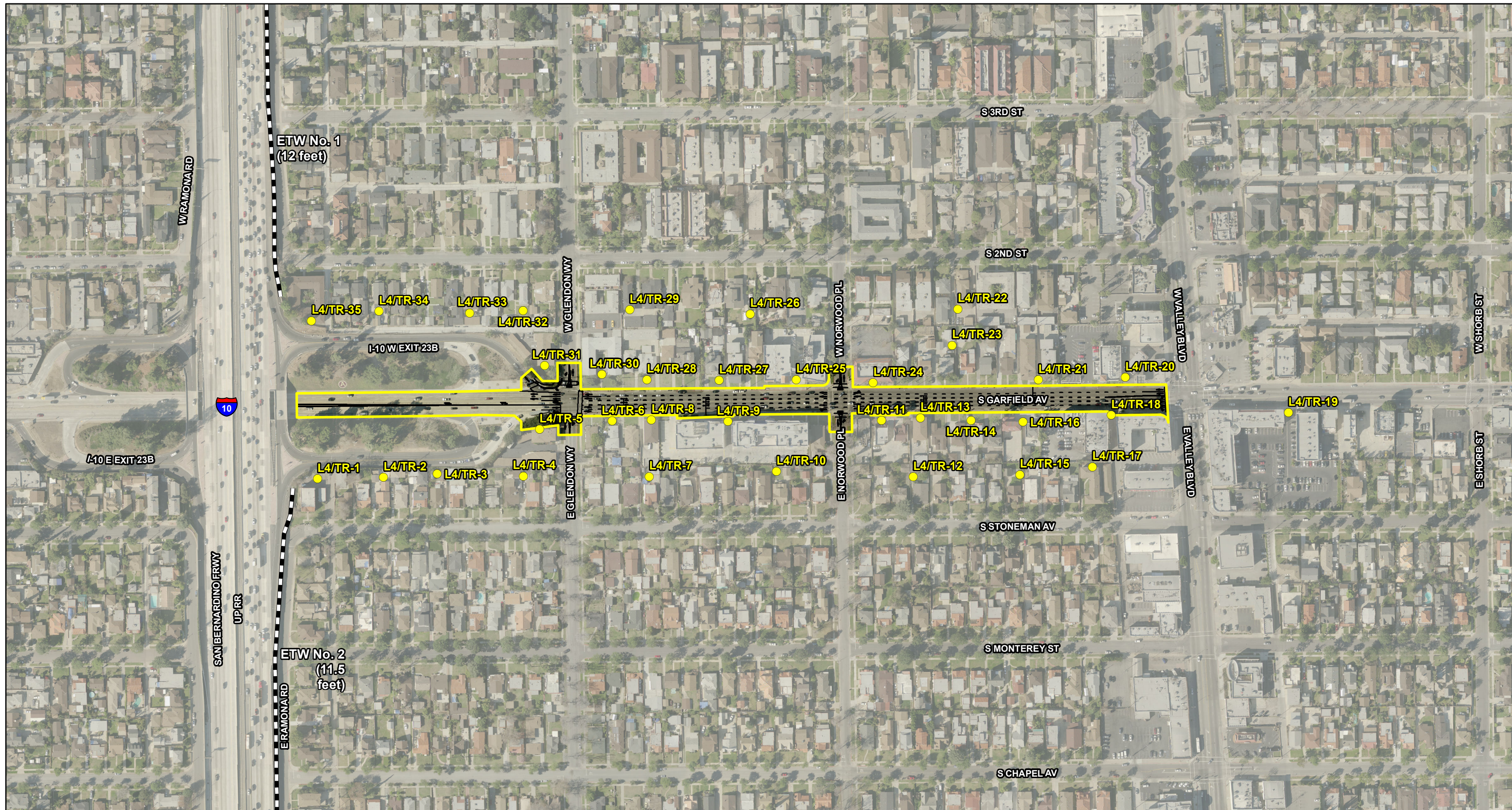


FIGURE 2-1
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SR 710 North Study

Modeled Noise Barriers for the TSM/TDM Alternative – L-3

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LEGEND

- TSM/TDM Alternative
- TSM/TDM Roadway Geometrics
- Proposed Right-of-Way
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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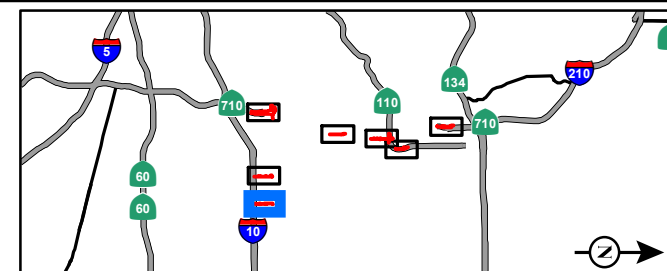


FIGURE 2-1
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SR 710 North Study

Modeled Noise Barriers for the TSM/TDM Alternative – L-4

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LEGEND

- TSM/TDM Alternative
- TSM/TDM Roadway Geometrics
- Proposed Right-of-Way
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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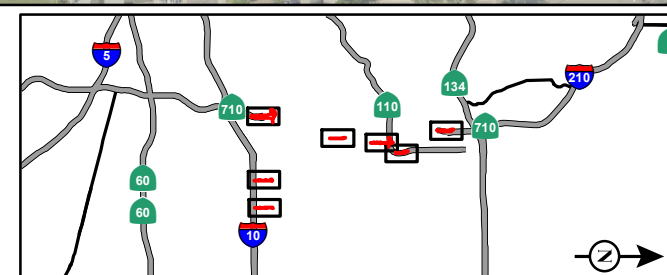


FIGURE 2-1
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SR 710 North Study

Modeled Noise Barriers for the TSM/TDM Alternative – L-5

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LEGEND

- TSM/TDM Alternative
- TSM/TDM Roadway Geometrics
- Proposed Right-of-Way
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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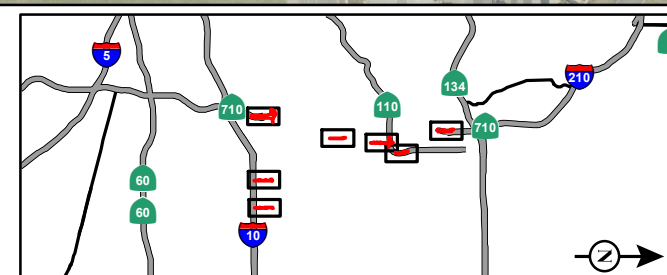
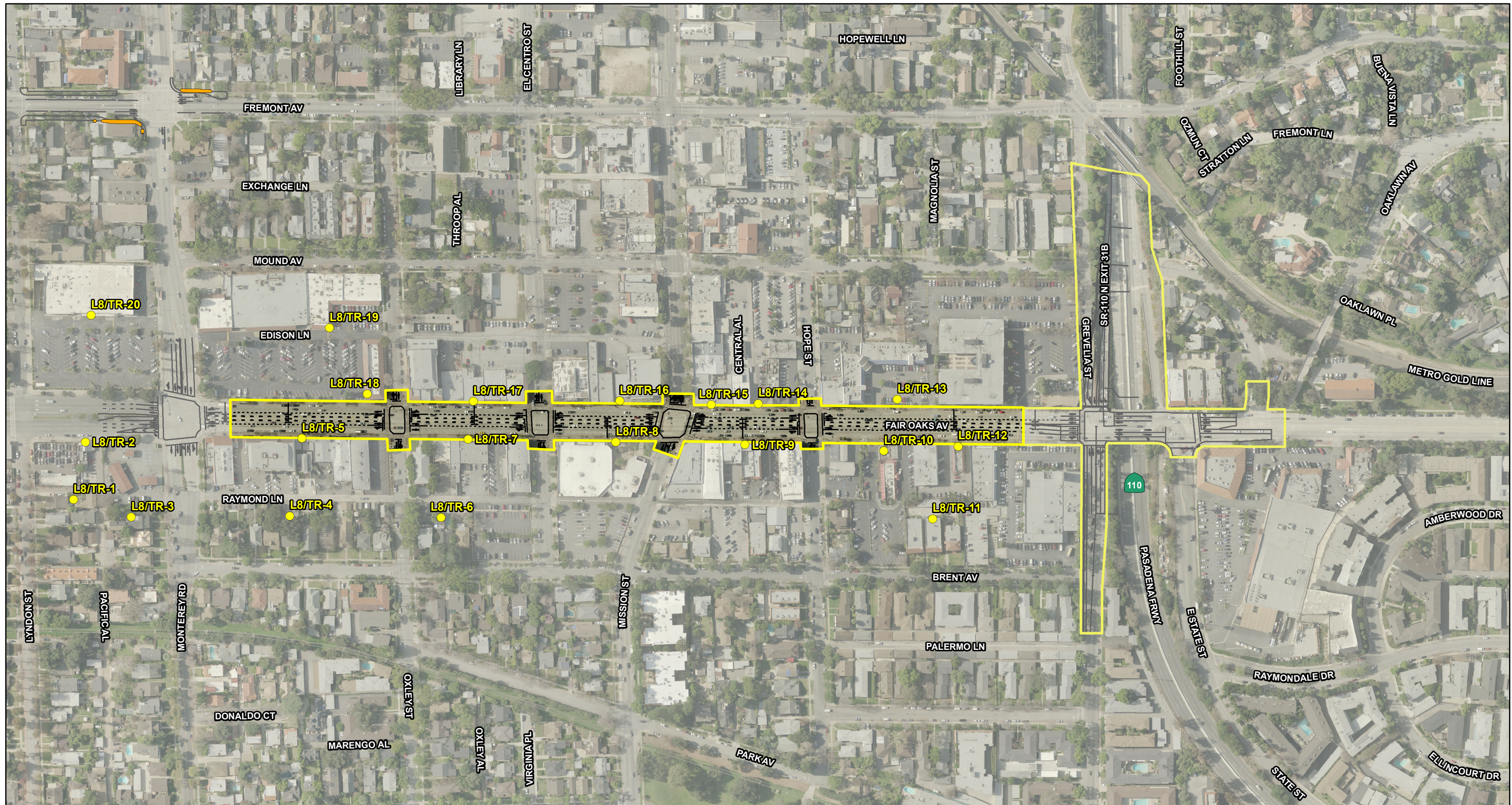


FIGURE 2-1
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SR 710 North Study

Modeled Noise Barriers for the TSM/TDM Alternative – L-5

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LEGEND

- TSM/TDM Alternative
- TSM/TDM Roadway Geometrics
- Proposed Right-of-Way
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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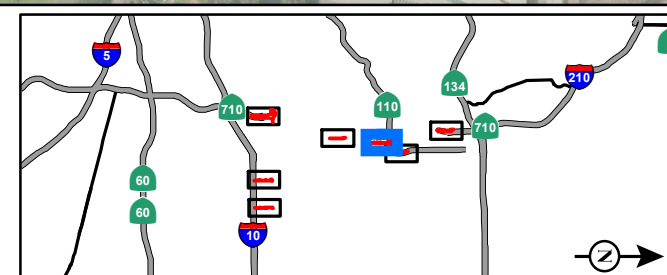


FIGURE 2-1
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SR 710 North Study

Modeled Noise Barriers for the TSM/TDM Alternative – L-8/T-2

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LEGEND

- TSM/TDM Alternative
- TSM/TDM Roadway Geometrics
- Proposed Right-of-Way
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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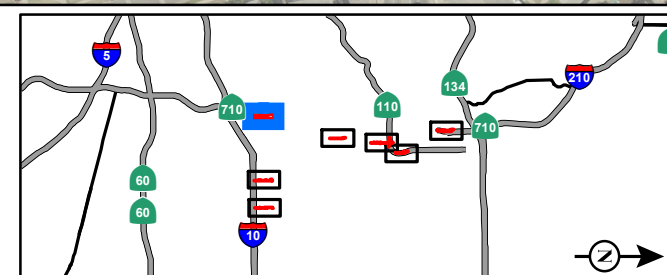
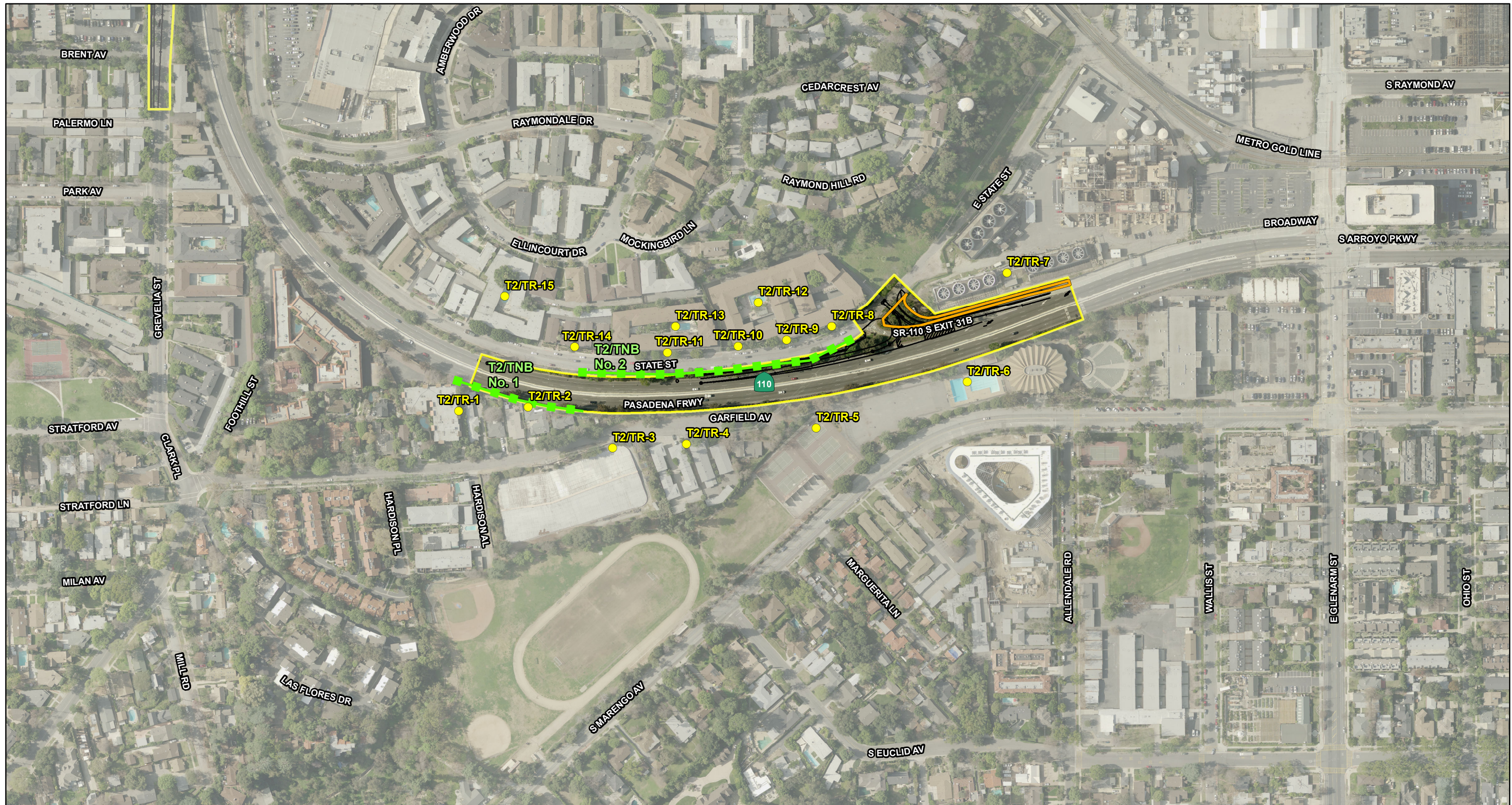


FIGURE 2-1
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SR 710 North Study

Modeled Noise Barriers for the TSM/TDM Alternative – T-1

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LEGEND

- TSM/TDM Alternative
- TSM/TDM Roadway Geometrics
- Proposed Right-of-Way
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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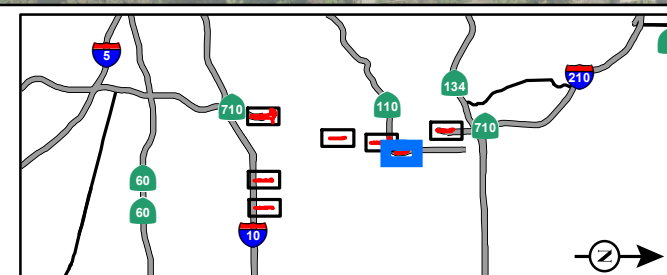


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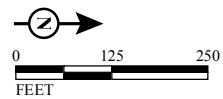
Modeled Noise Barriers for the TSM/TDM Alternative – T-2

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LEGEND

- TSM/TDM Alternative
- TSM/TDM Roadway Geometrics
- Proposed Right-of-Way
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); AECOM (2013); CH2M Hill (2014)
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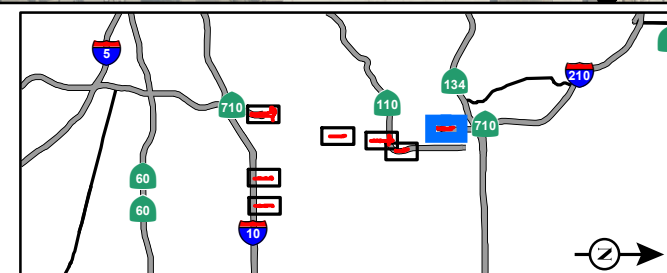
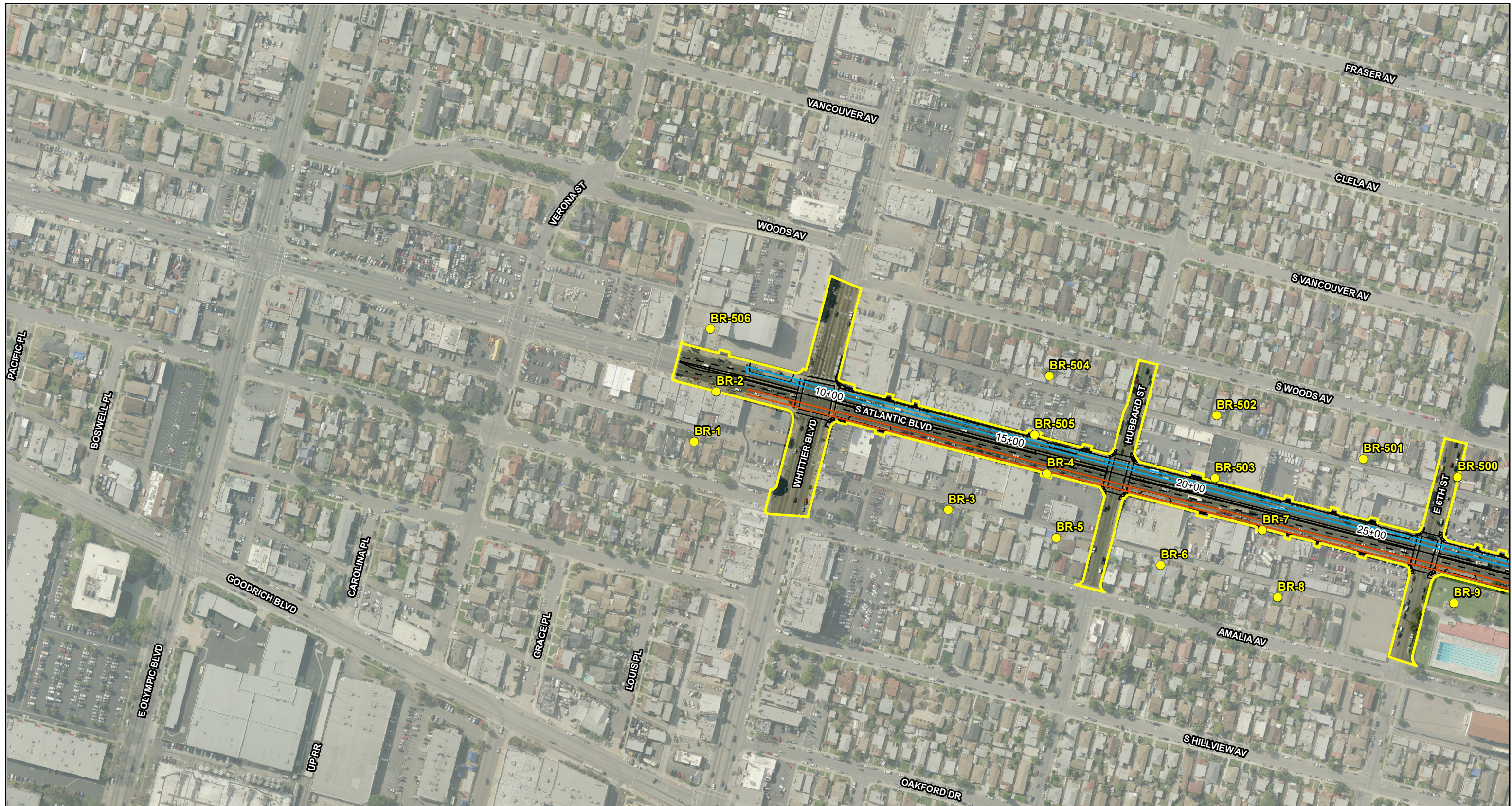


FIGURE 2-1
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SR 710 North Study

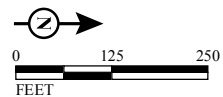
Modeled Noise Barriers for the TSM/TDM Alternative – T-3

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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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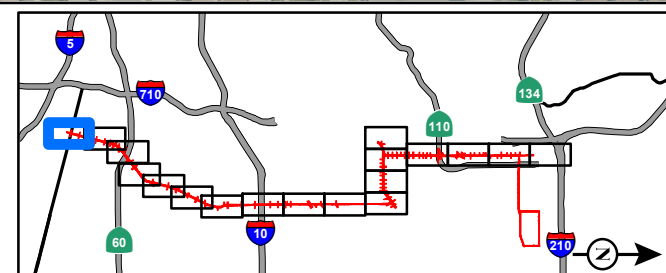
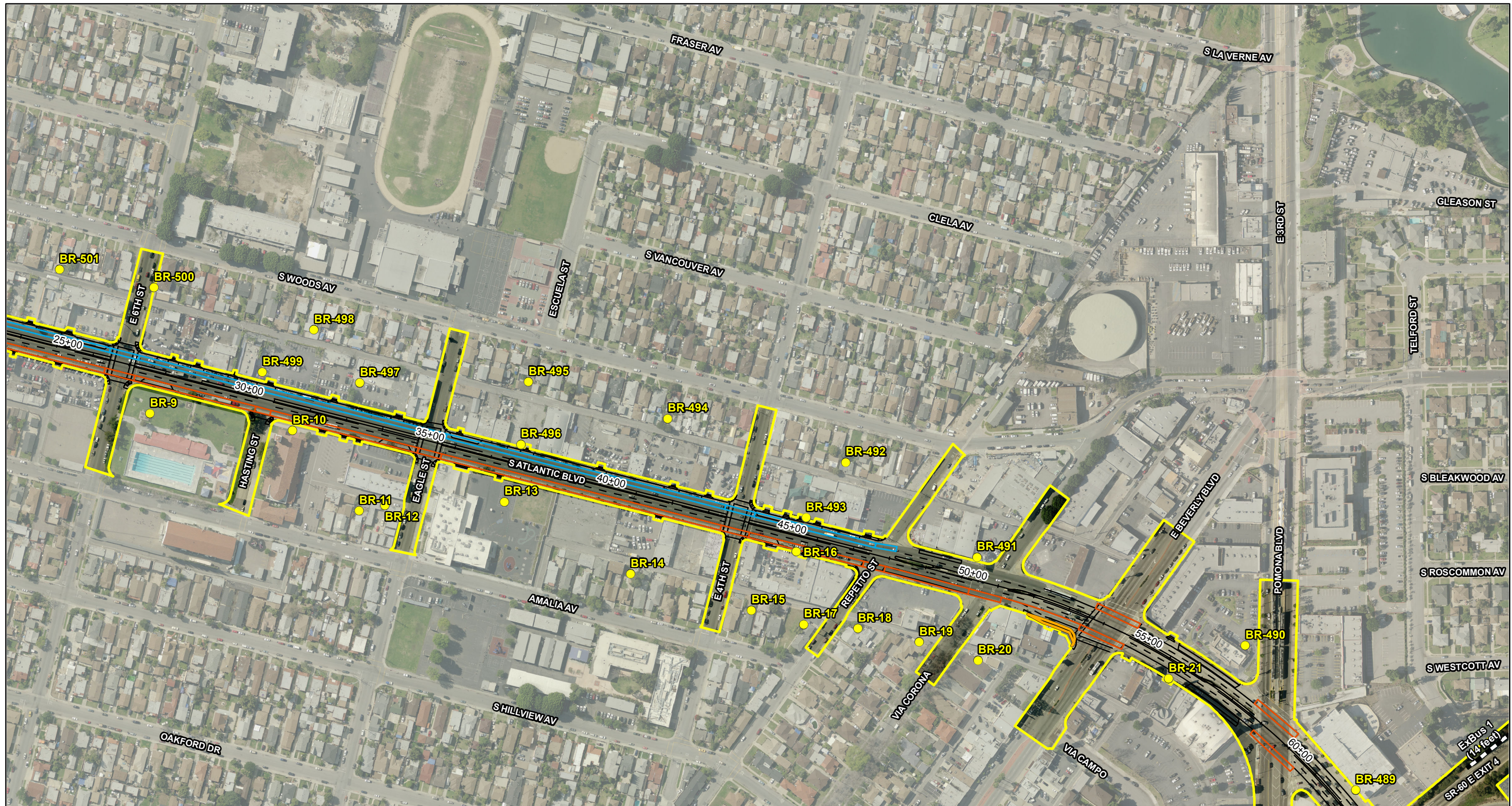


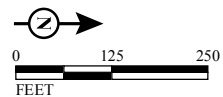
FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
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LEGEND

- BRT Roadway Geometrics
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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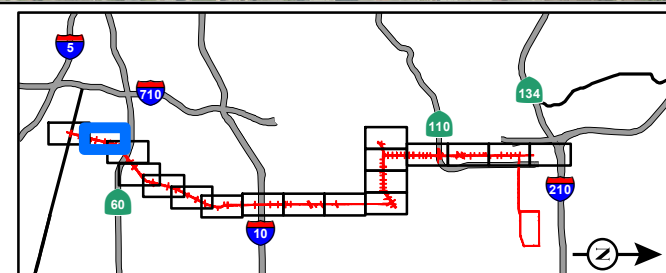
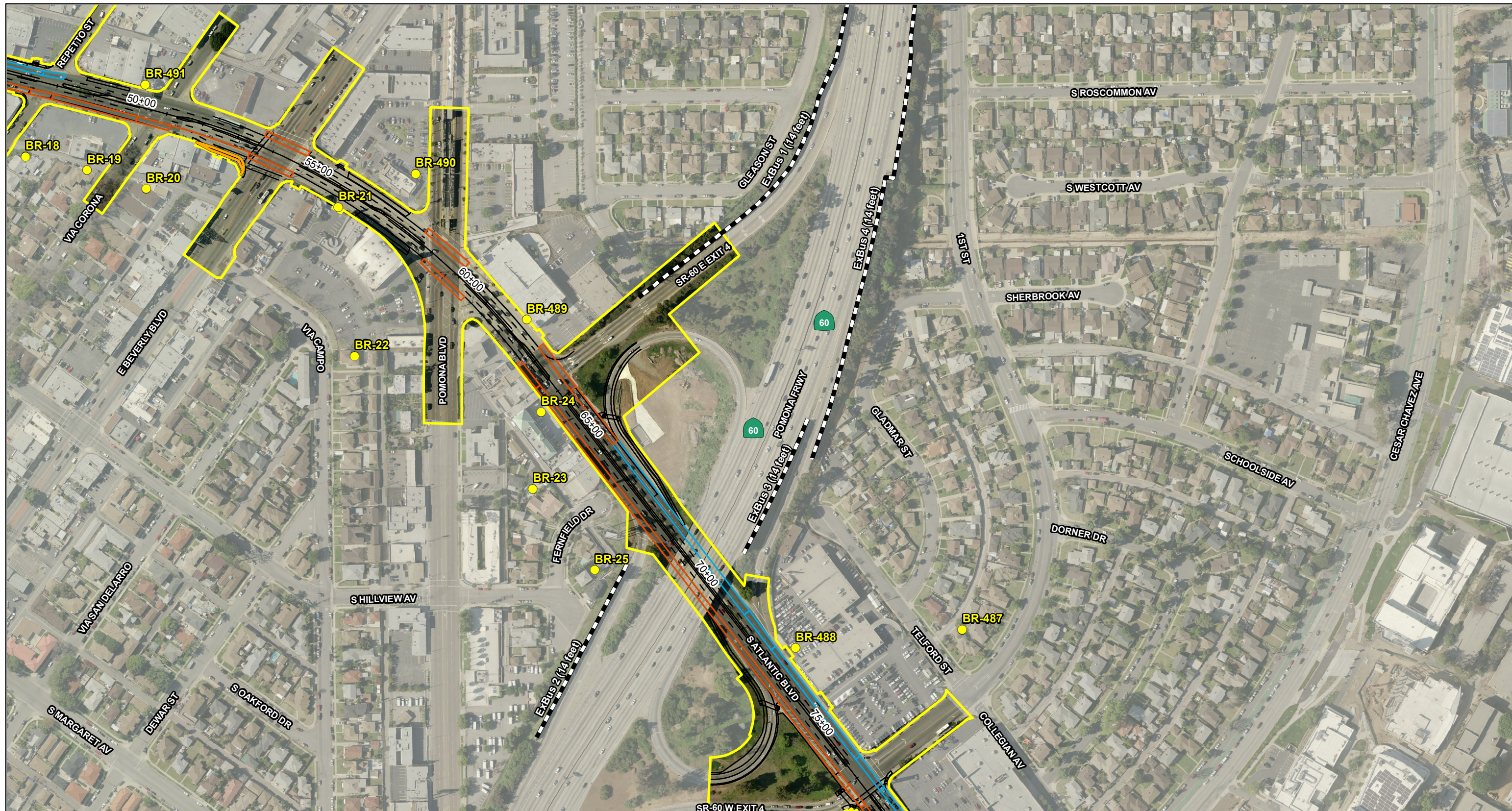


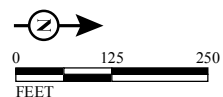
FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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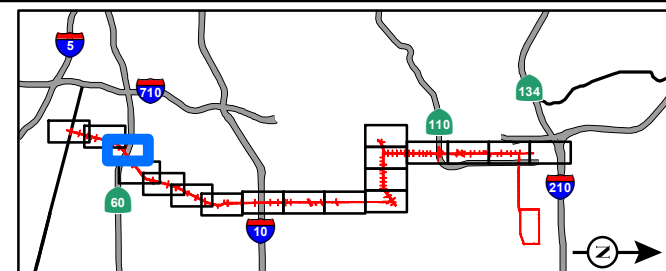
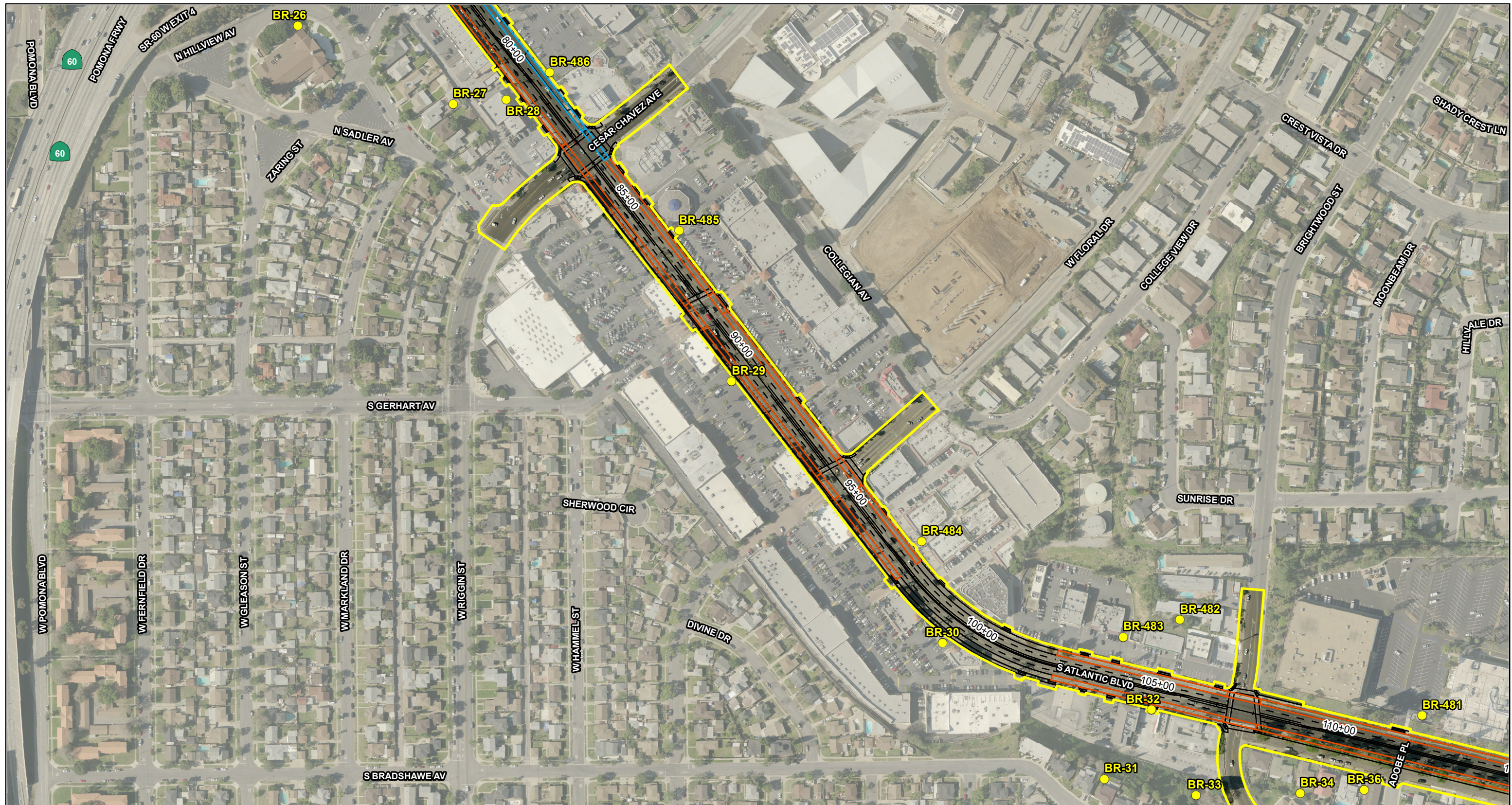


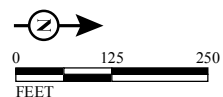
FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
 EA 187900
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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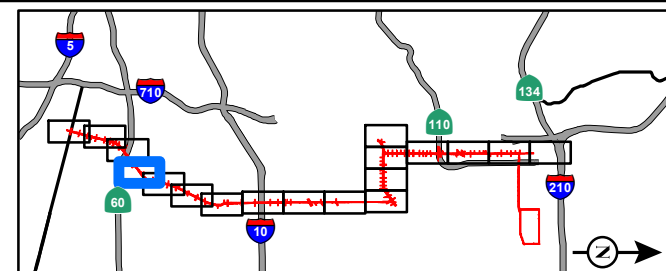


FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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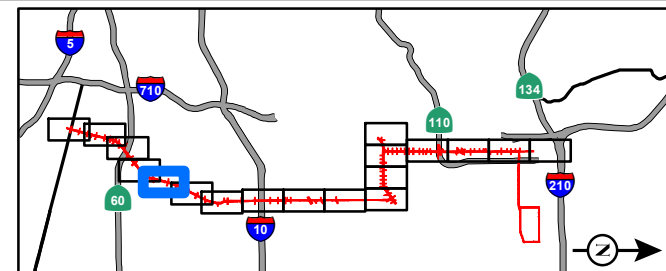


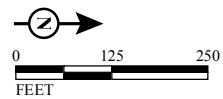
FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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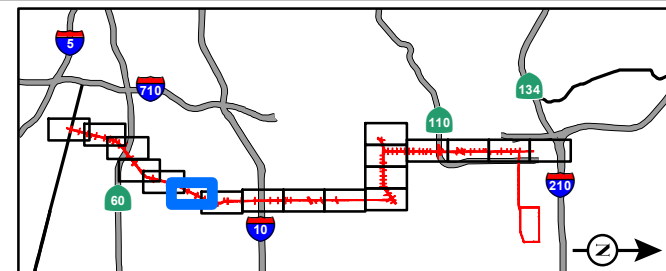
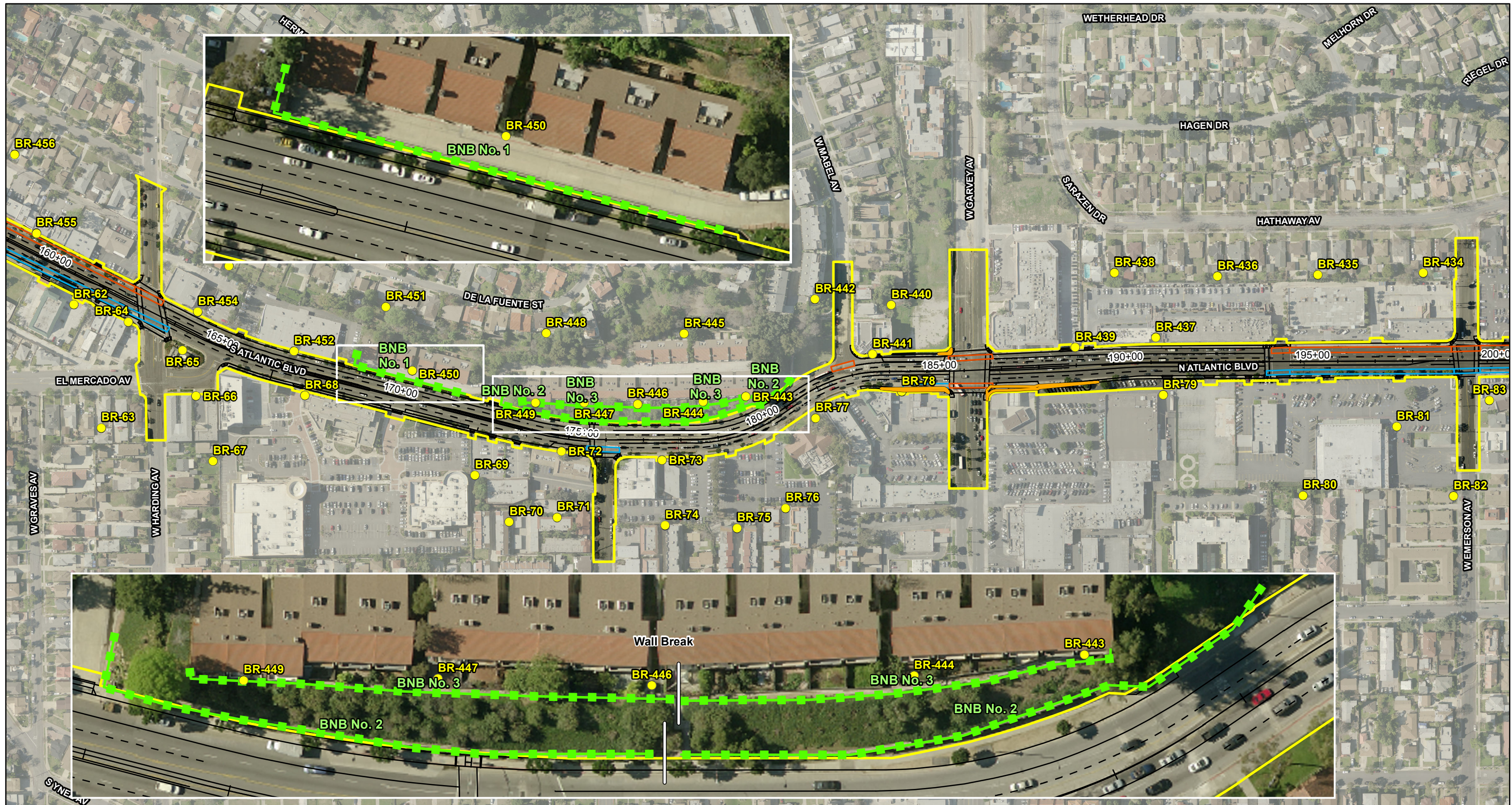


FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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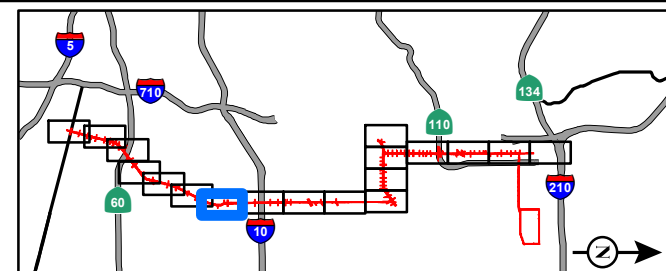
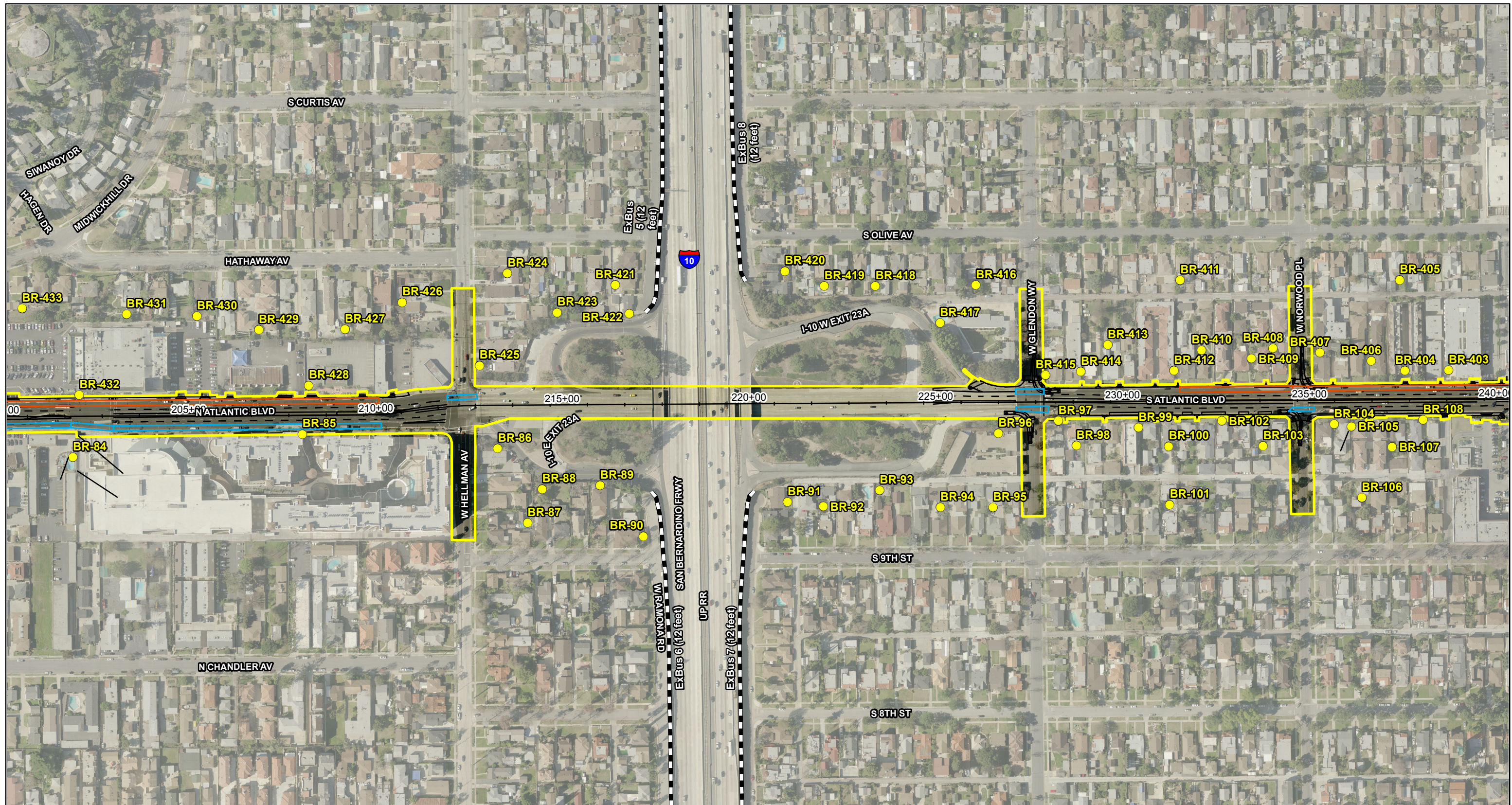


FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- ▬ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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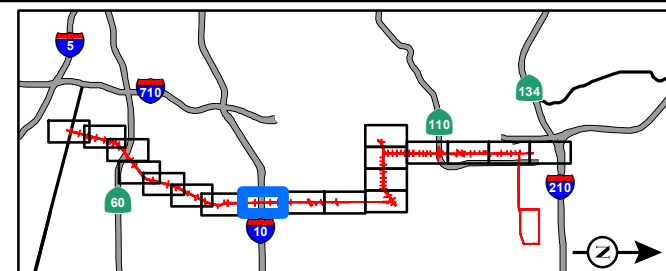
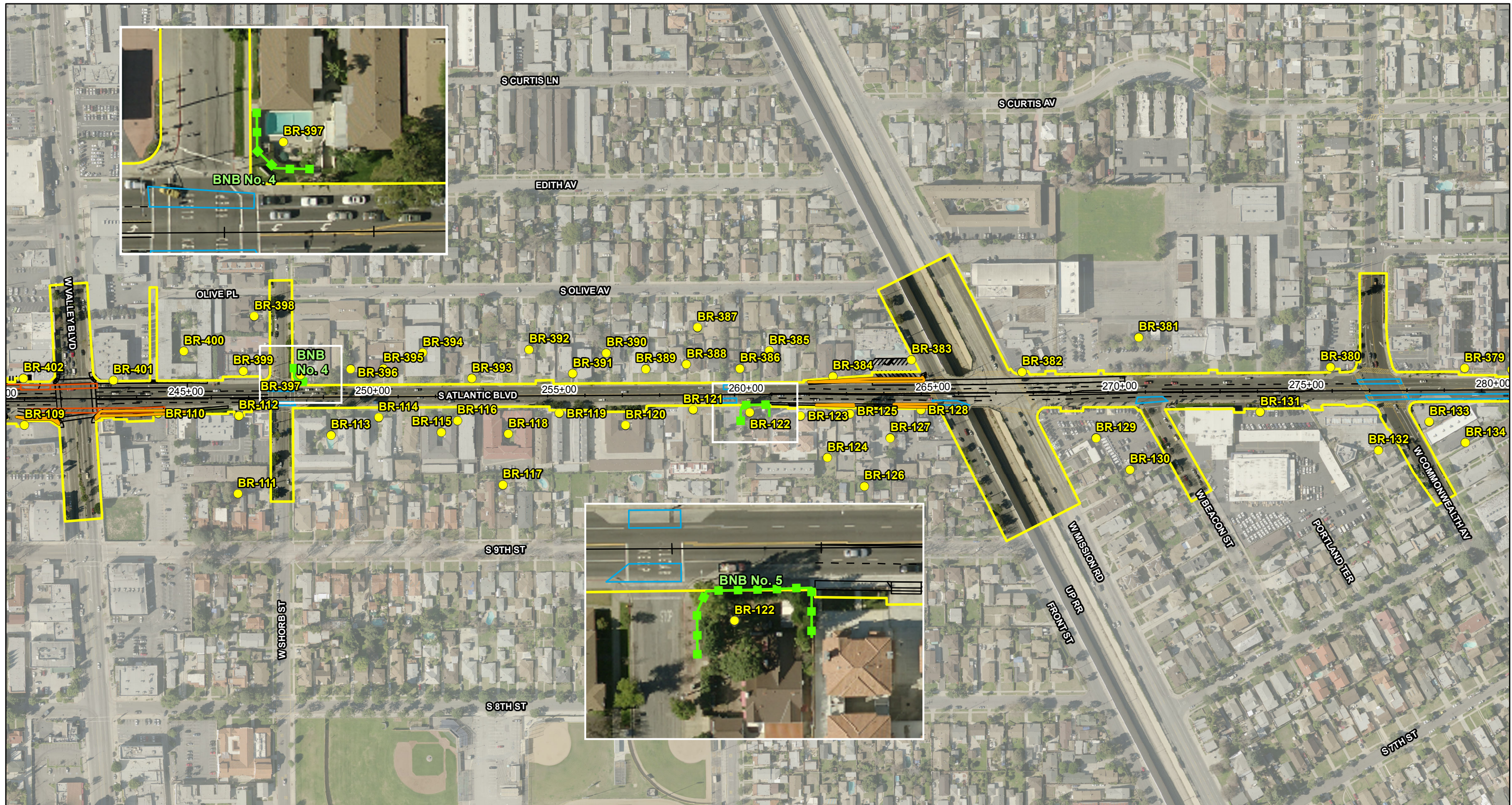
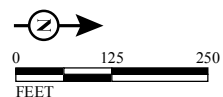


FIGURE 2-2
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- ▬ Existing Walls
- ▬ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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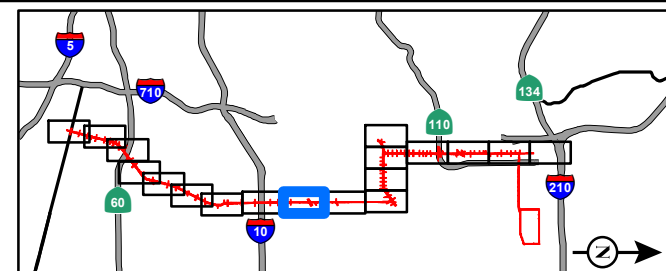
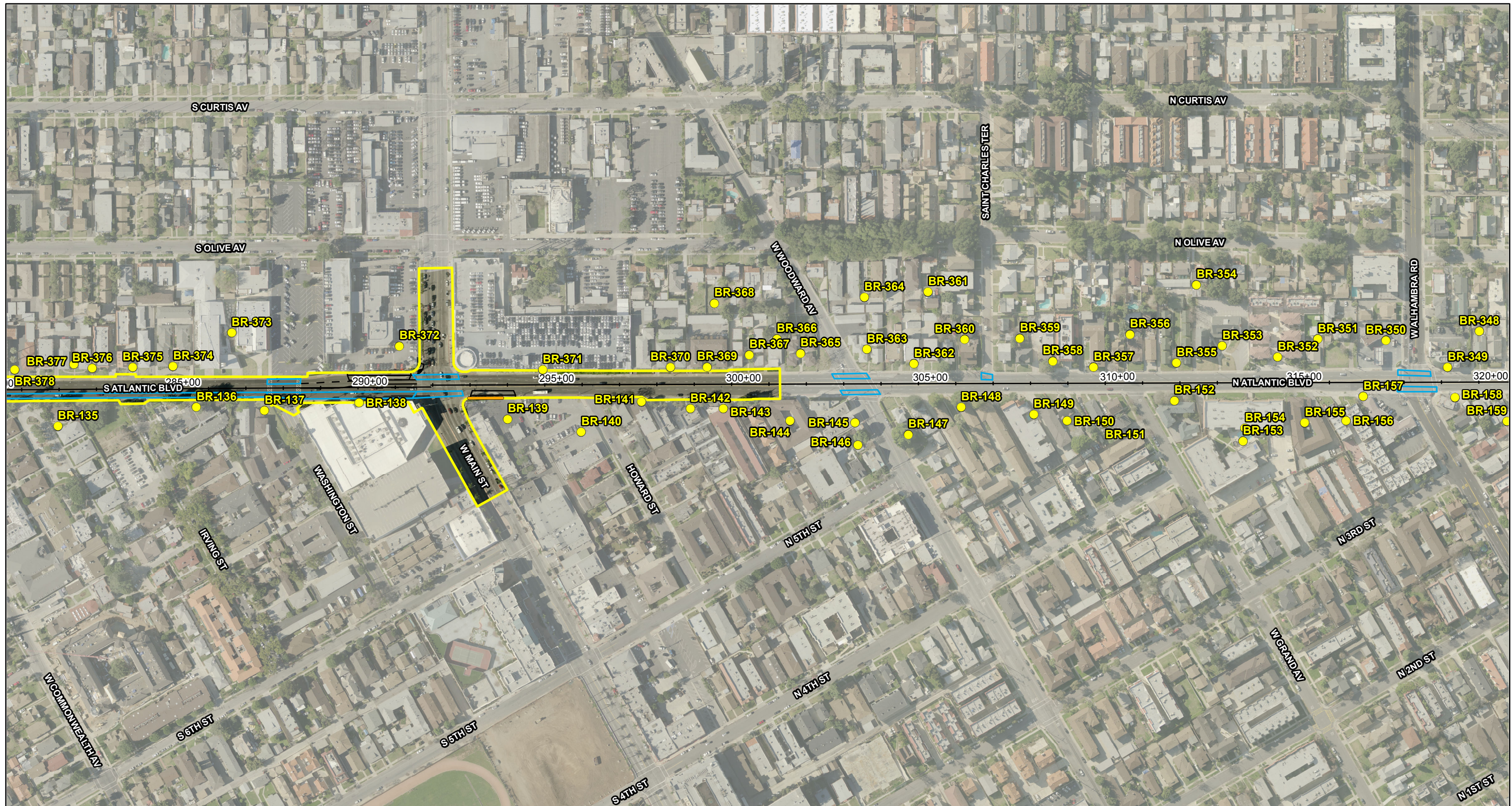


FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- ▭ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
 I:\CHM1105\GIS\MXD\NADR\NoiseMonitoring_BRT_ProposedBarriers.mxd (10/28/2014)

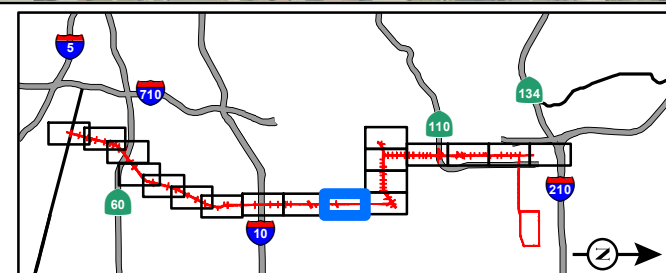


FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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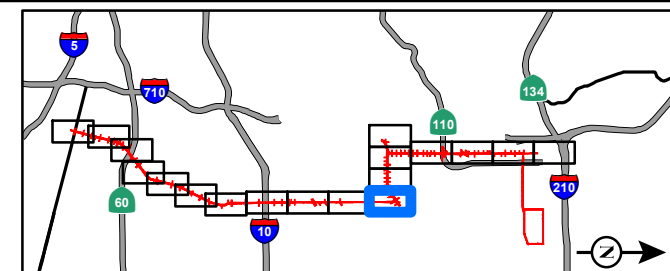


FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



- LEGEND
- BRT Roadway Geometries
 - Dedicated Bus Lane
 - Shared Lane
 - Proposed Right-of-Way
 - ▭ BRT Alternative
 - Existing Walls
 - ▬ Modeled Noise Barriers
 - Modeled Receptor Locations

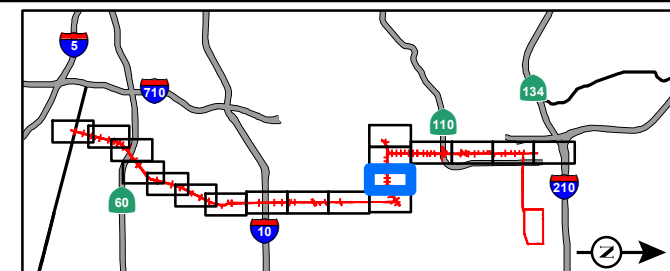
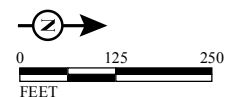
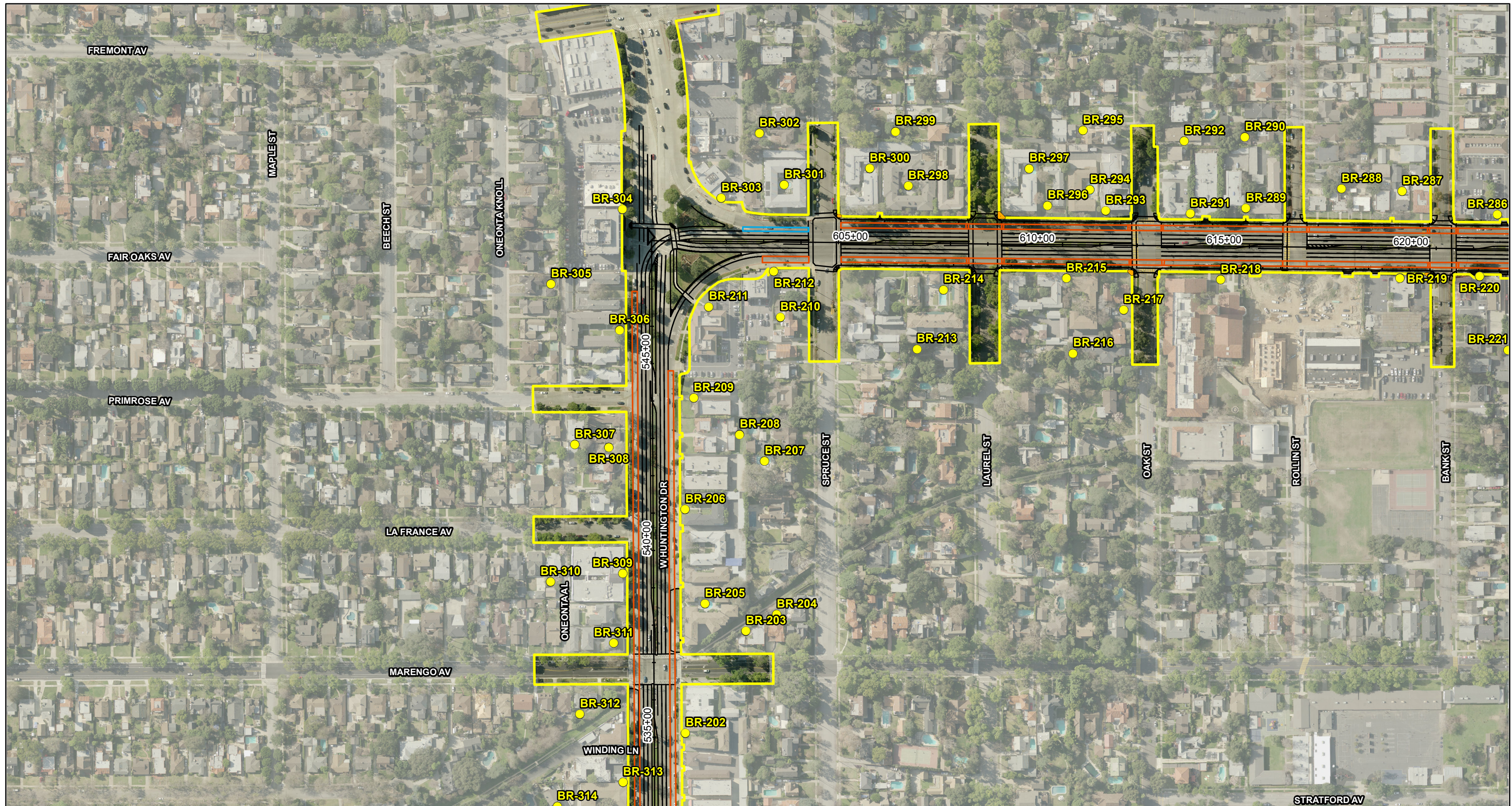


FIGURE 2-2
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SR 710 North Study
Modeled Noise Barriers for the BRT Alternative
07-LA-710 (SR 710)
EA 187900
EFIS 0700000191





LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- ▭ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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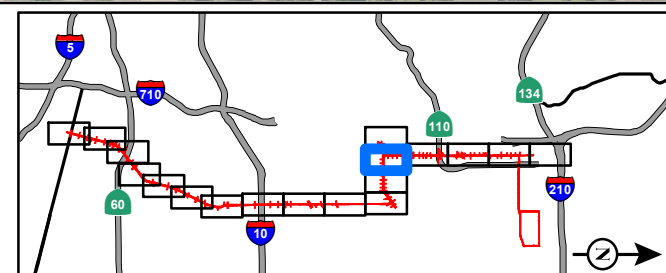
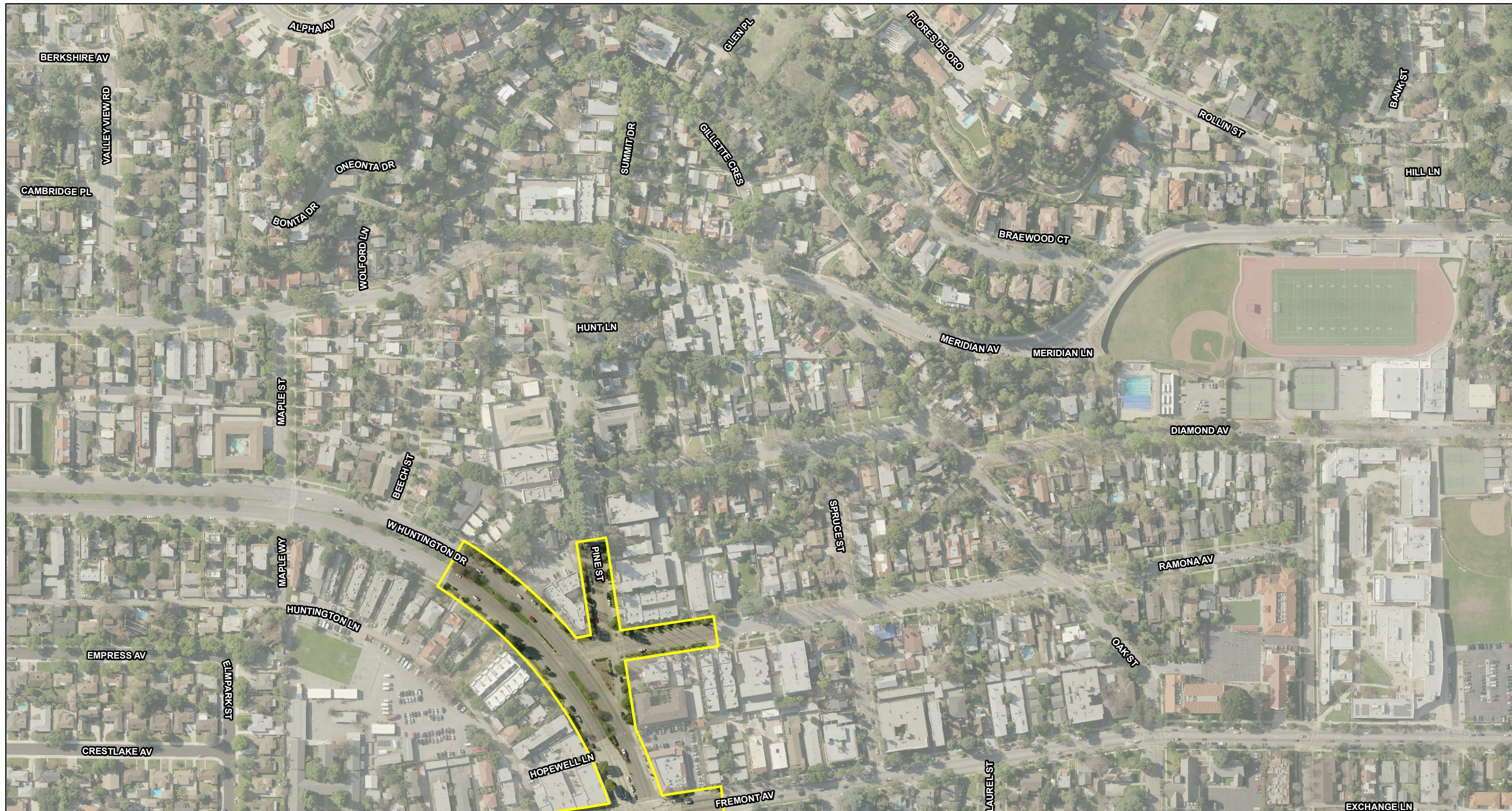


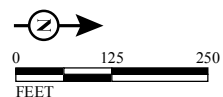
FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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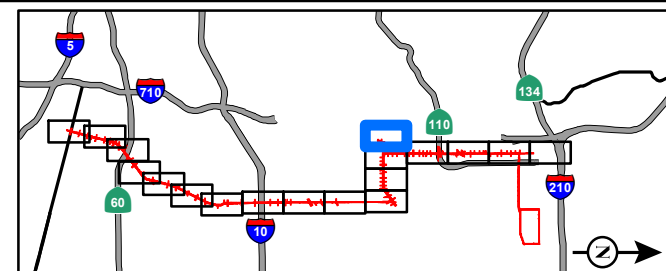
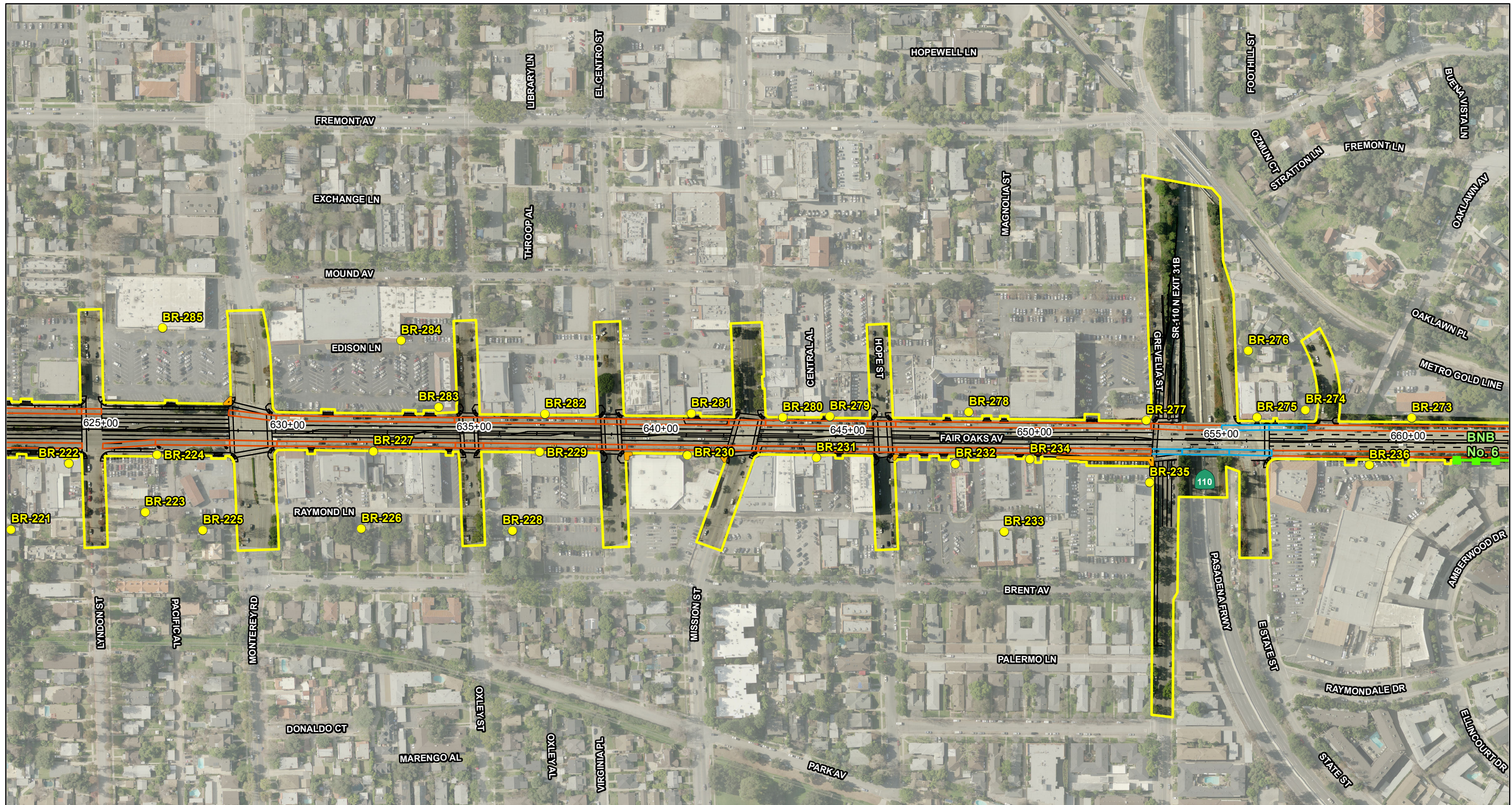


FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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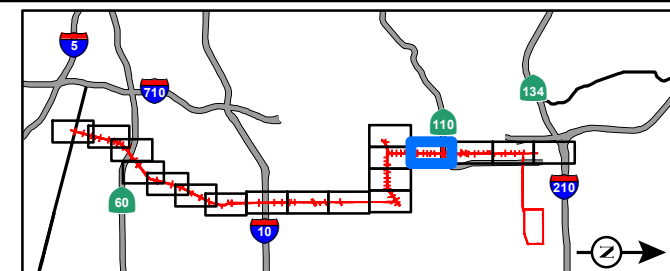
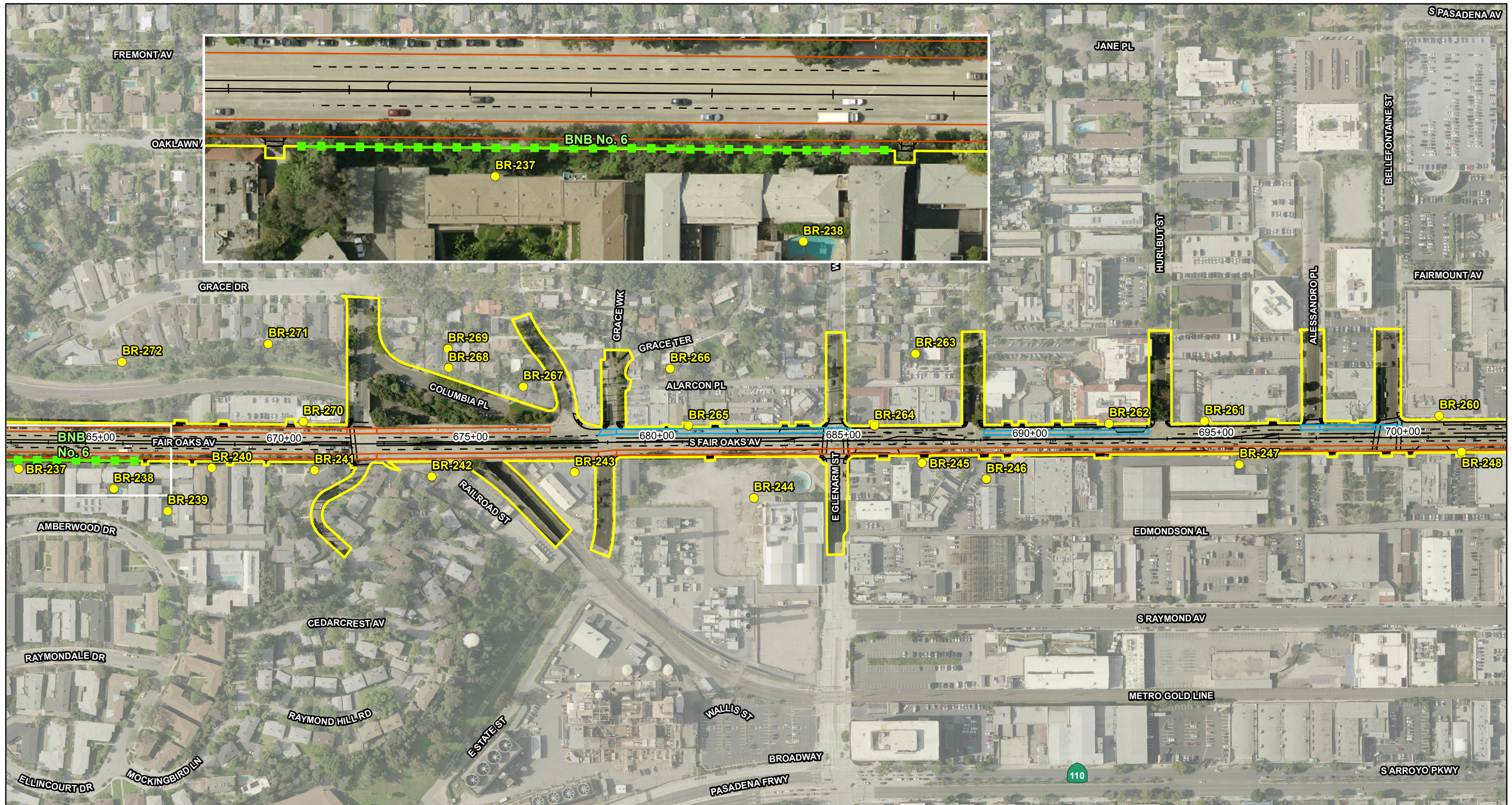


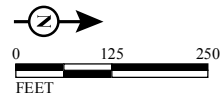
FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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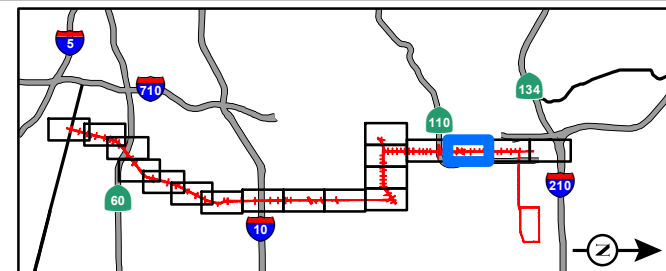
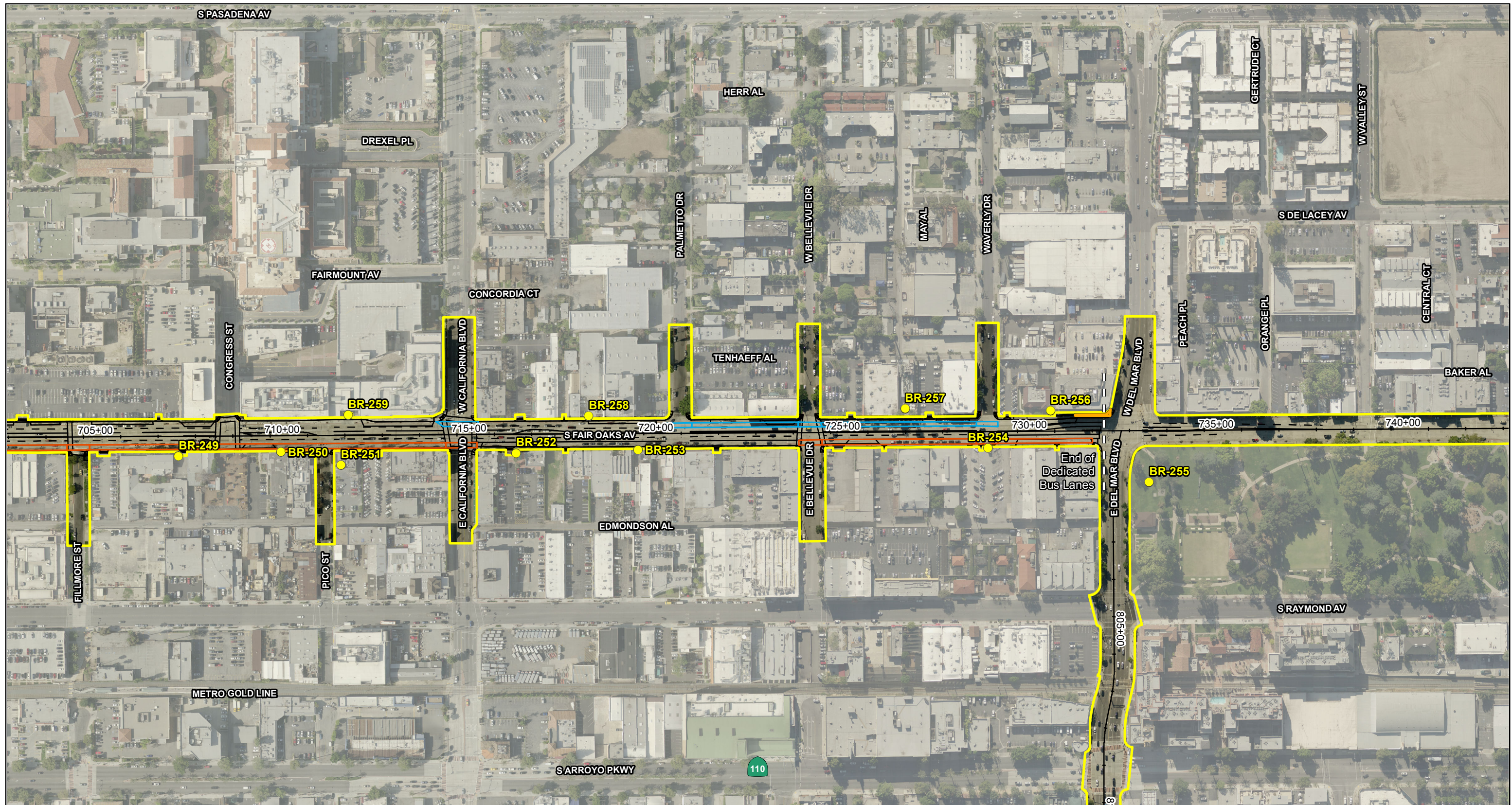


FIGURE 2-2

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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative

07-LA-710 (SR 710)
 EA 187900
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)
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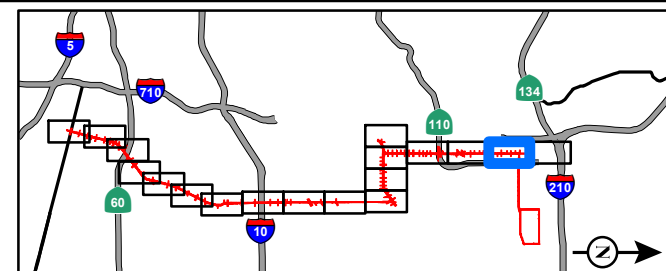
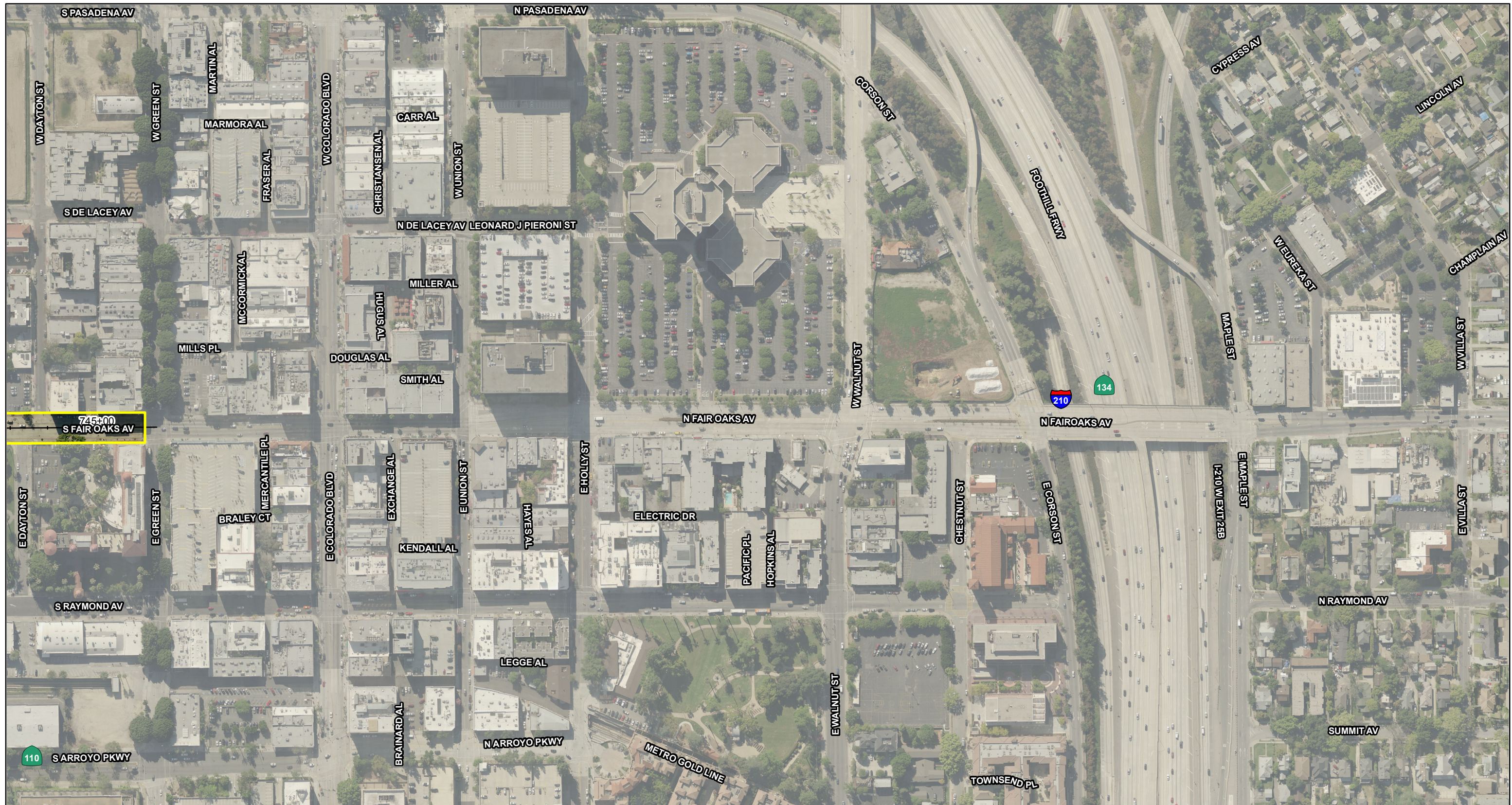


FIGURE 2-2
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SR 710 North Study
 Modeled Noise Barriers for the BRT Alternative
 07-LA-710 (SR 710)
 EA 187900
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LEGEND

- BRT Roadway Geometries
- Dedicated Bus Lane
- Shared Lane
- Proposed Right-of-Way
- ▭ BRT Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2013)

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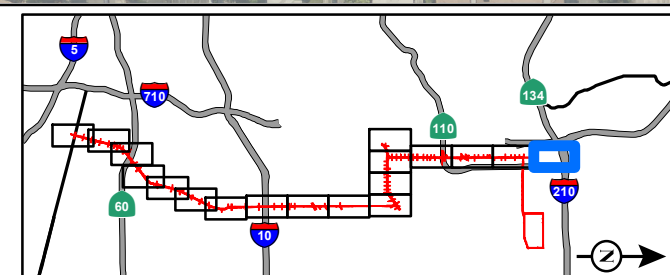


FIGURE 2-2
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SR 710 North Study
Modeled Noise Barriers for the BRT Alternative
07-LA-710 (SR 710)
EA 187900
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LEGEND

- Freeway Tunnel Single Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Single Bore Freeway Tunnel Alternative
- ▬ Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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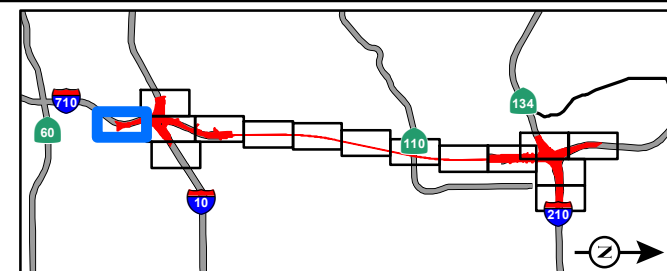


FIGURE 2-3
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SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometries
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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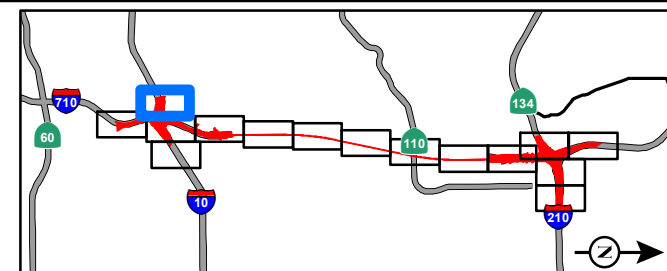
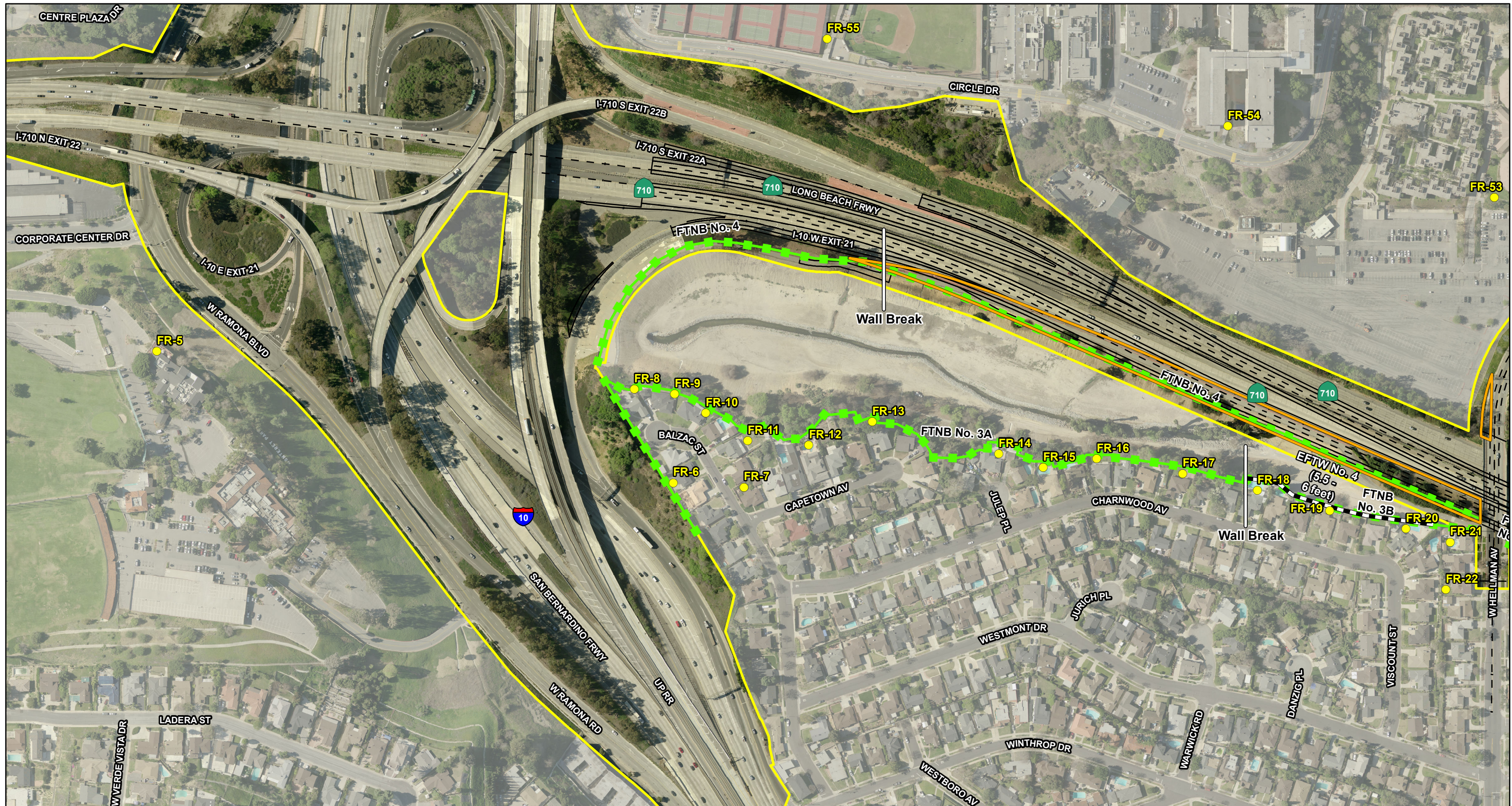


FIGURE 2-3
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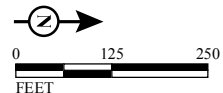
SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- | | |
|--|----------------------------|
| Freeway Tunnel Single Bore Geometrics | Existing Walls |
| Proposed Right-of-Way | Modeled Noise Barriers |
| Tunnel Segment | Modeled Receptor Locations |
| Single Bore Freeway Tunnel Alternative | |



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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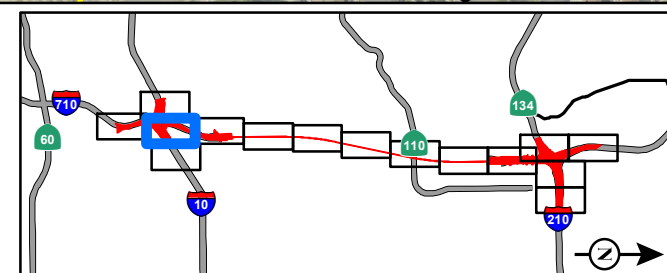
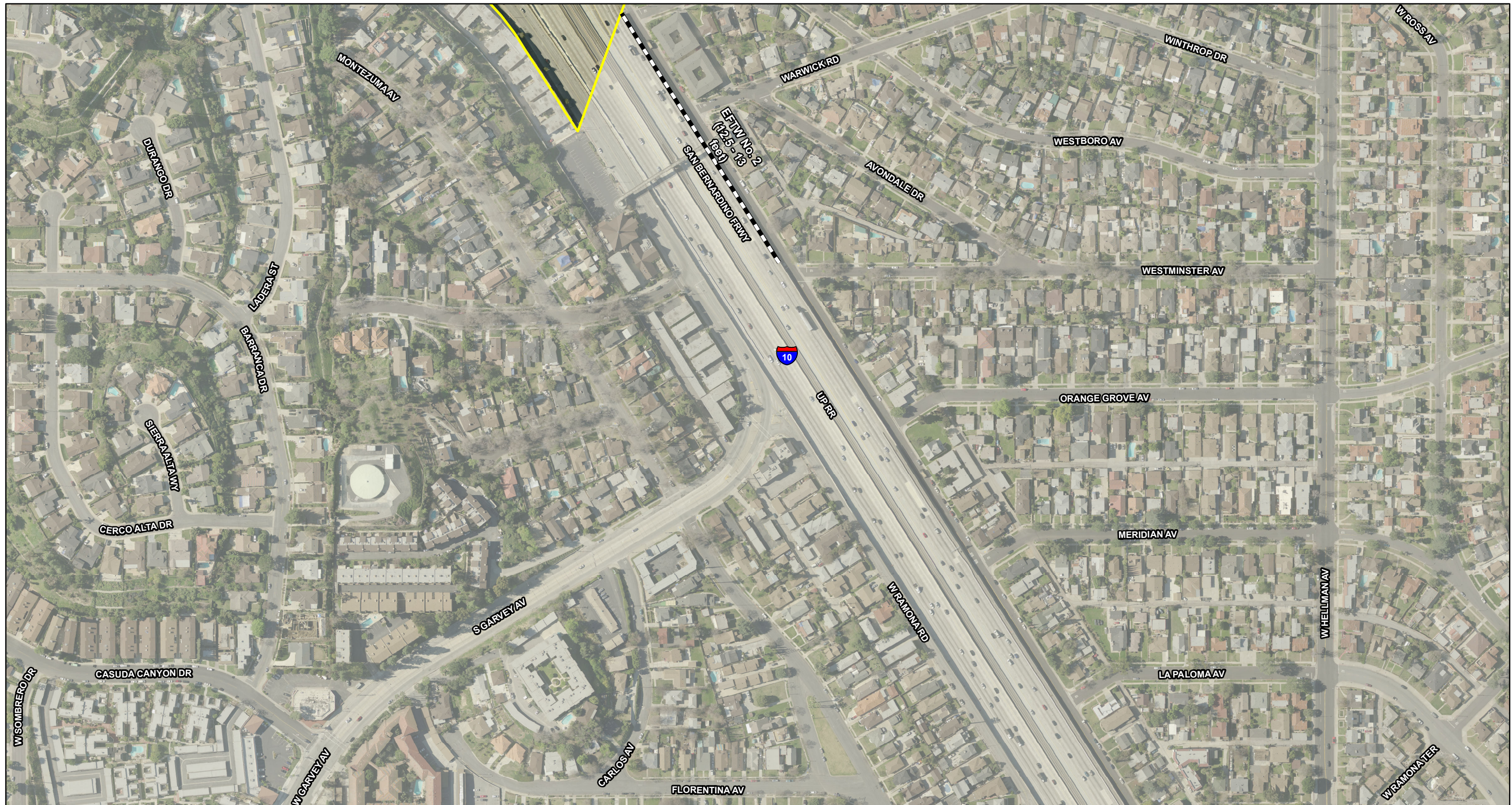


FIGURE 2-3
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SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometries
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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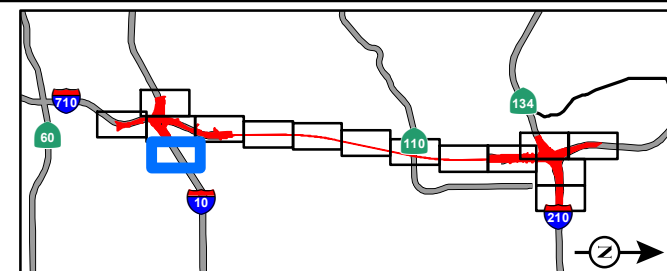


FIGURE 2-3
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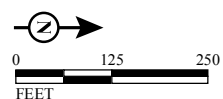
SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometries
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- Tunnel Segment
- Modeled Receptor Locations
- Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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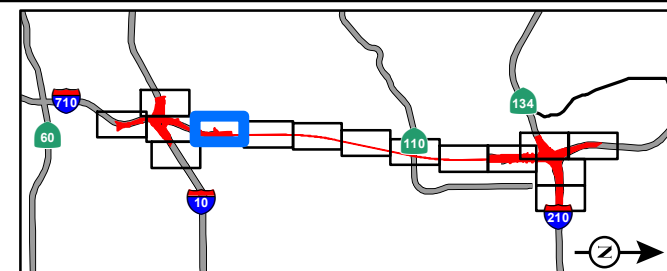
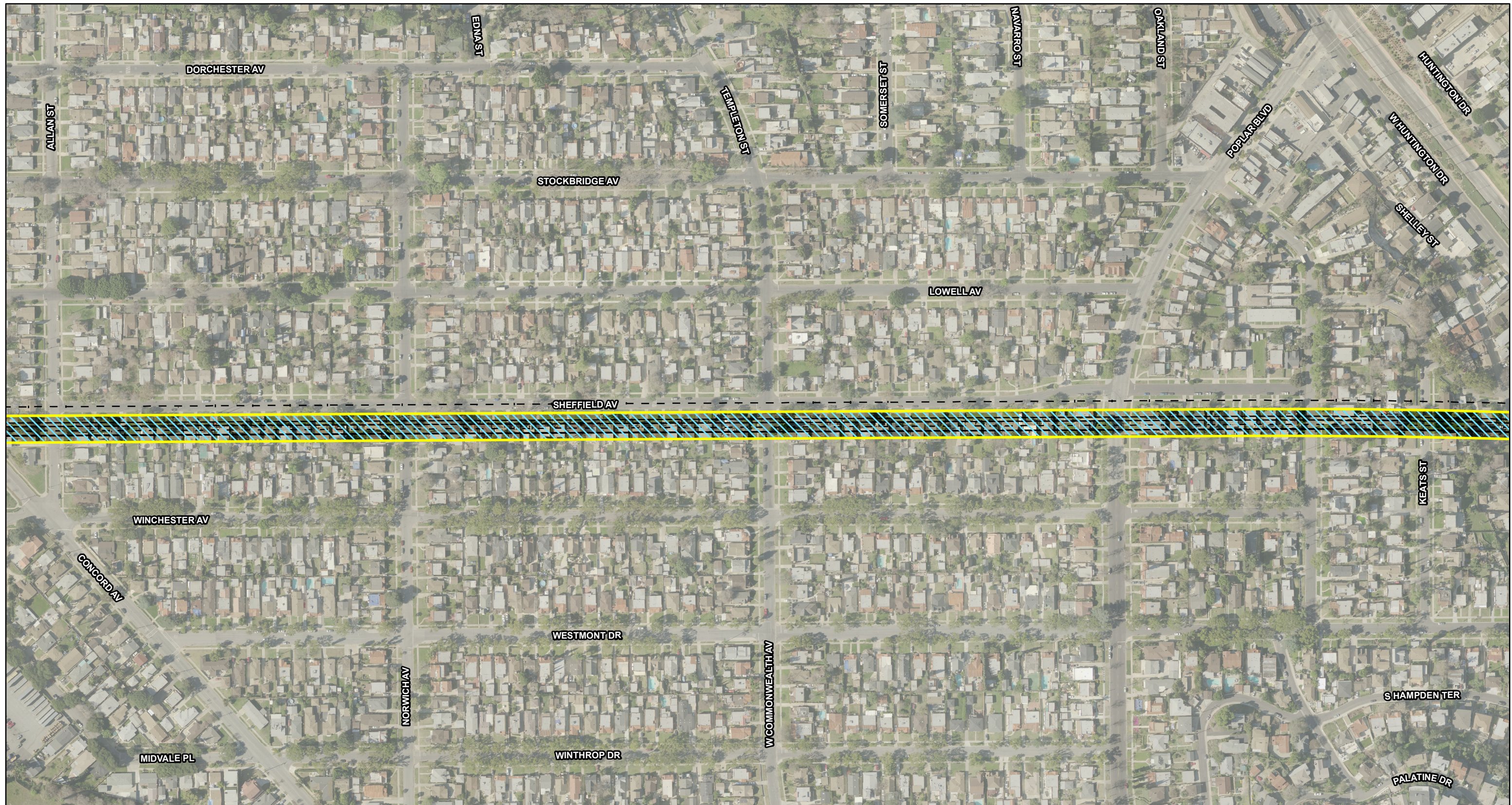


FIGURE 2-3
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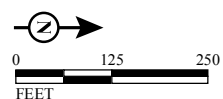
SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometries
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- Tunnel Segment
- Modeled Receptor Locations
- Single Bore Freeway Tunnel Alternative
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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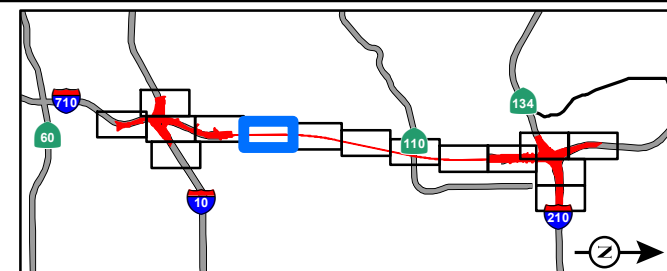
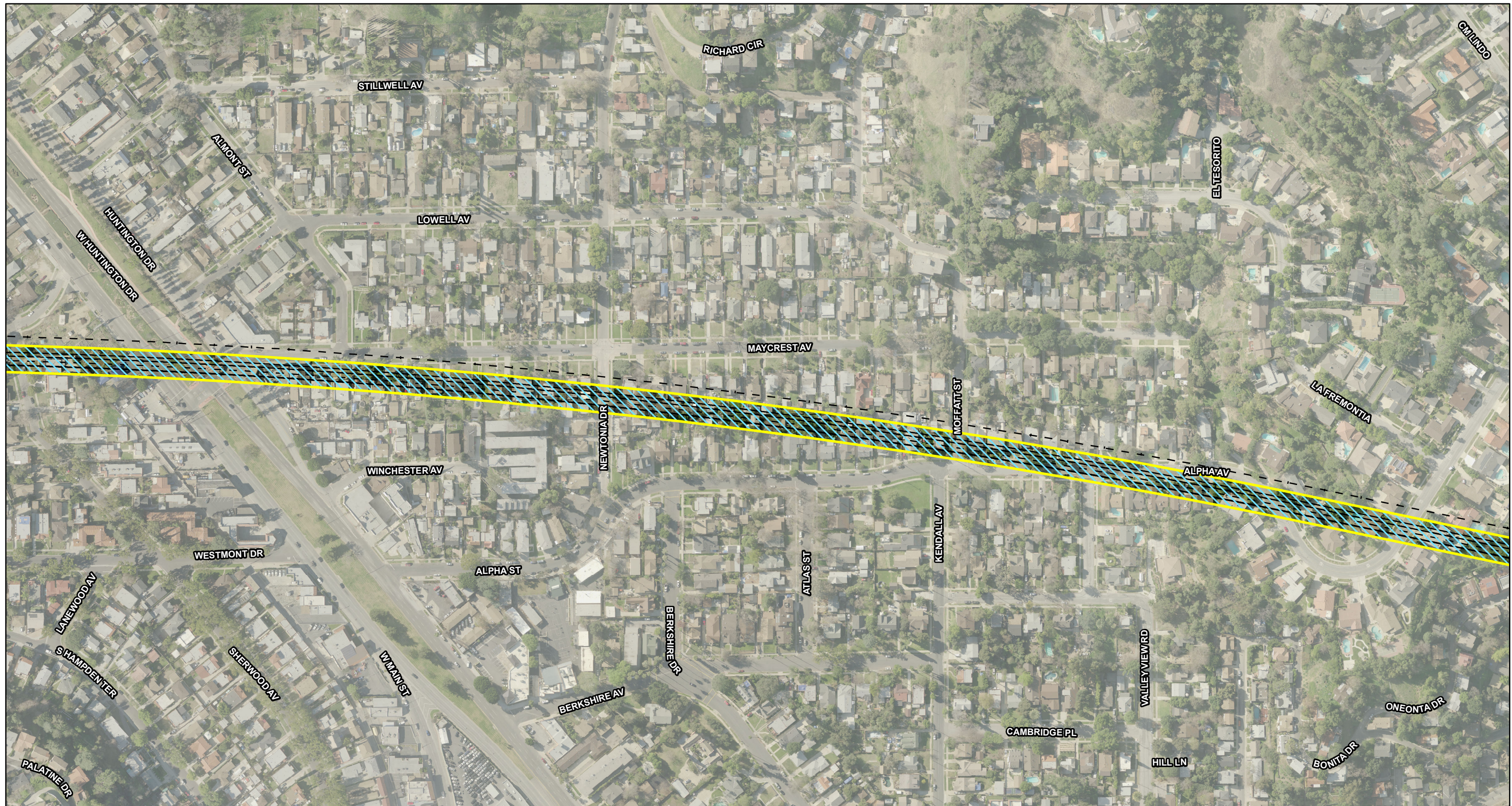


FIGURE 2-3
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SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Single Bore Freeway Tunnel Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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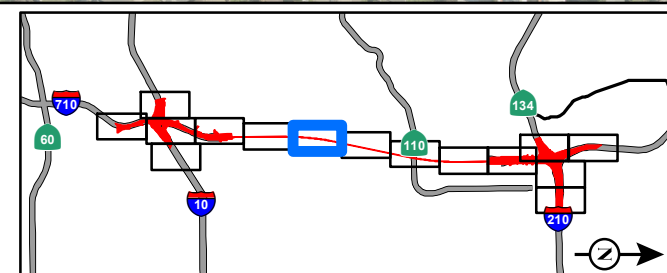
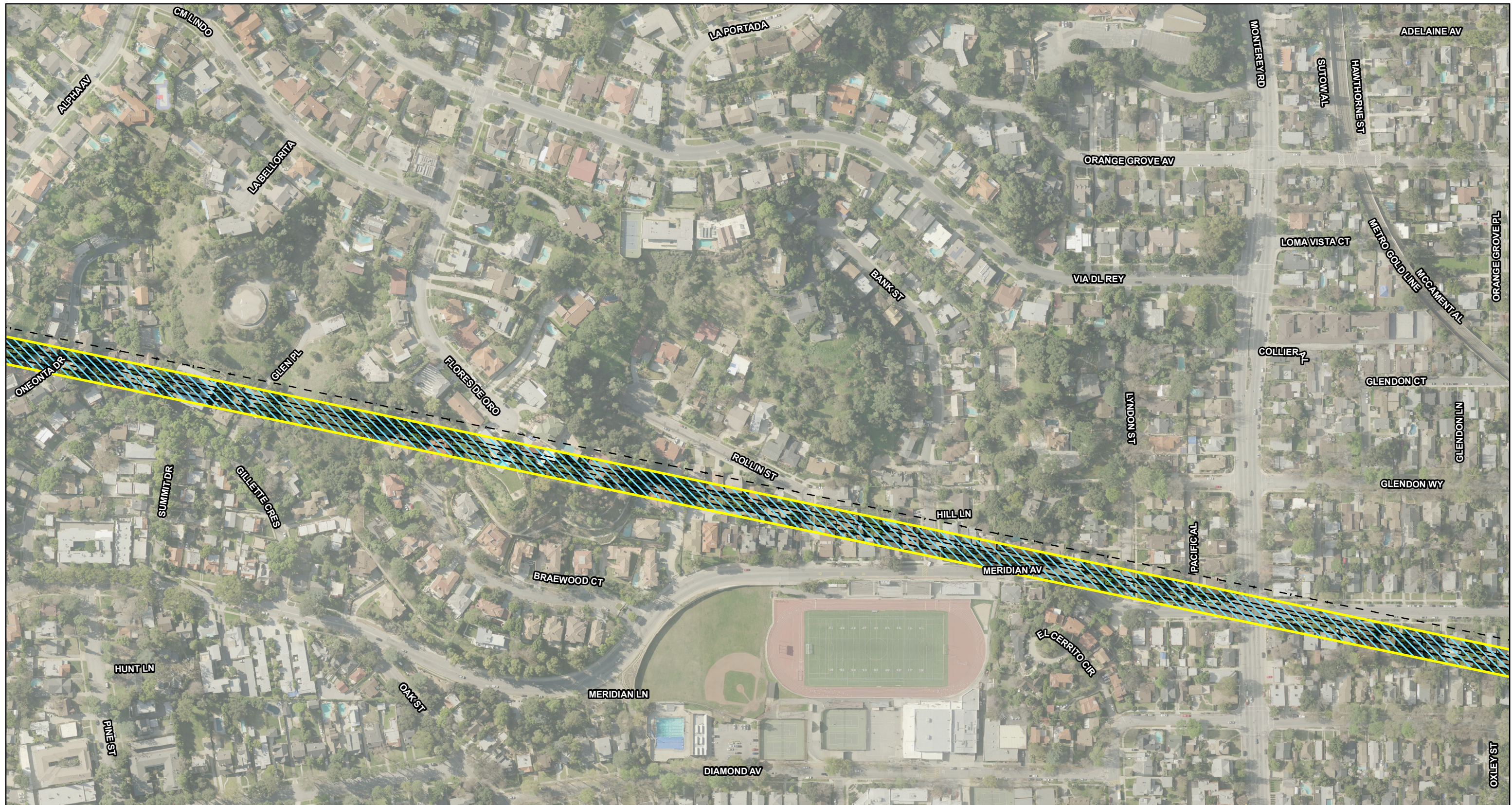


FIGURE 2-3
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SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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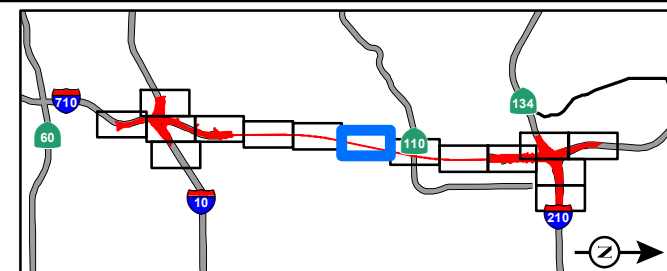
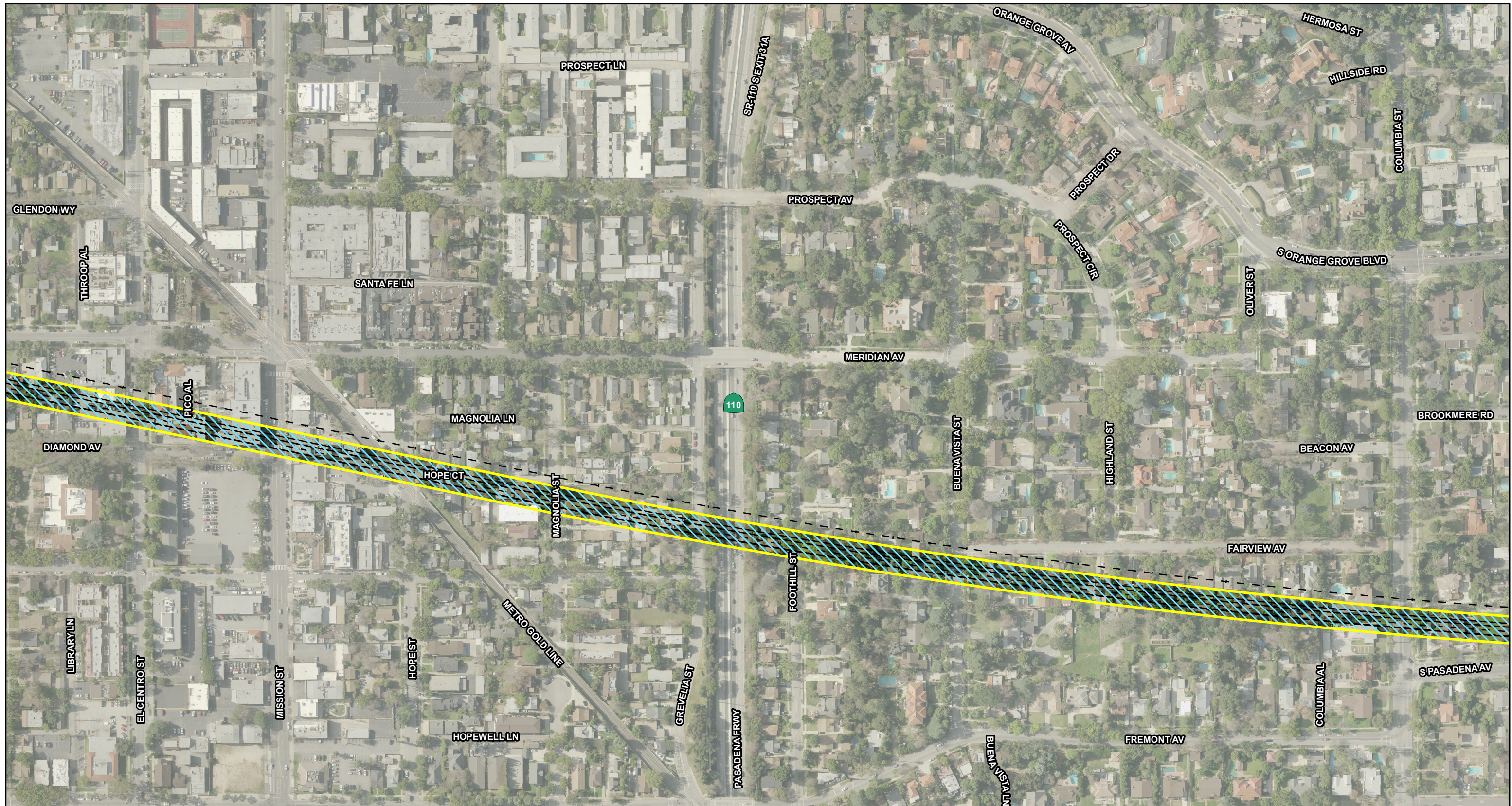


FIGURE 2-3
Sheet 8 of 15

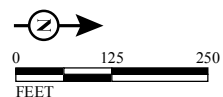
SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometries
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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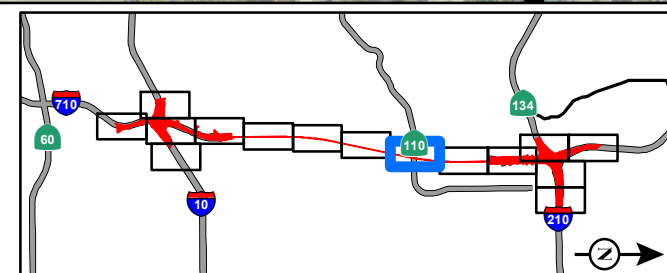
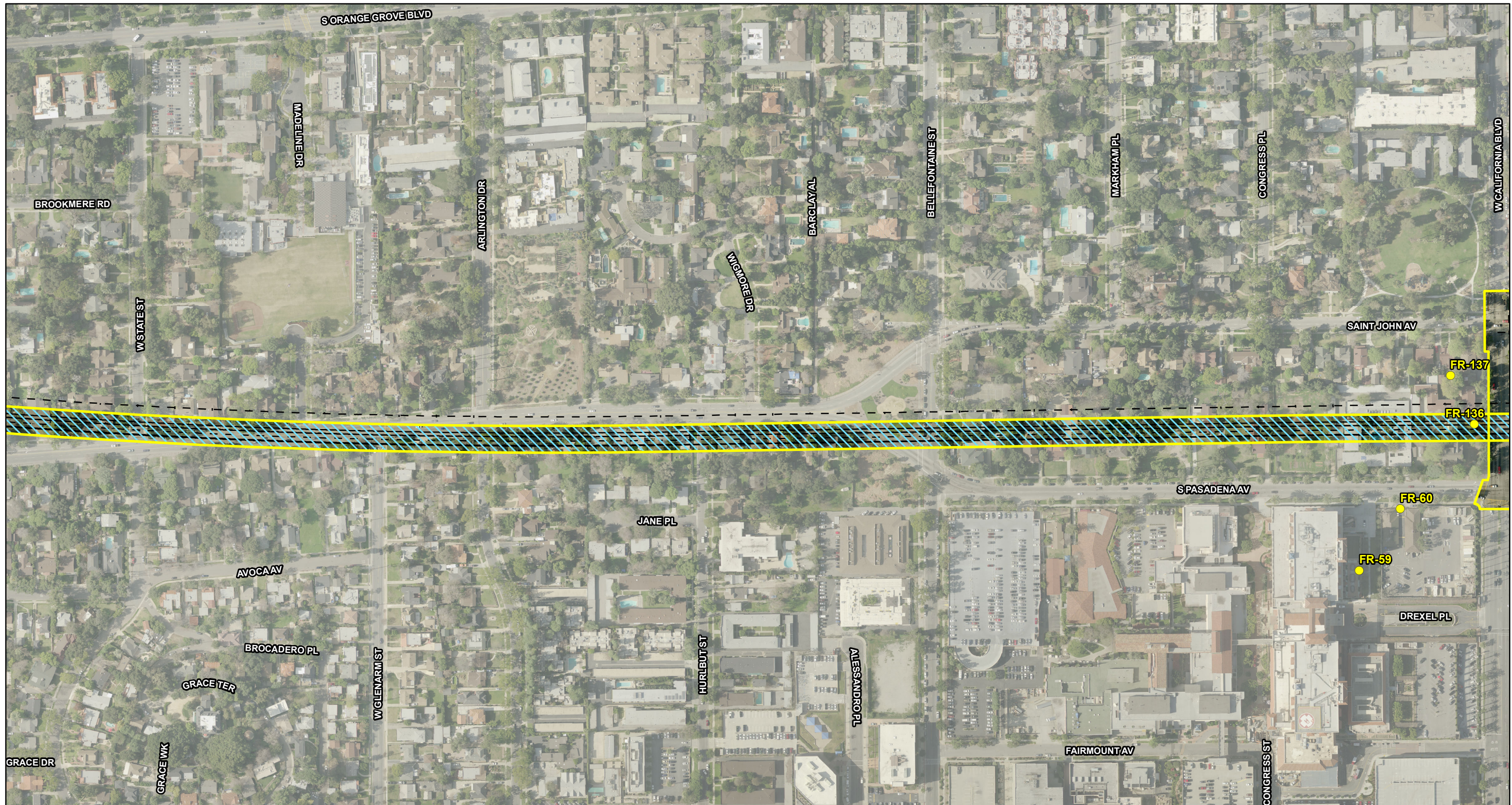


FIGURE 2-3
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SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometries
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- Tunnel Segment
- Modeled Receptor Locations
- Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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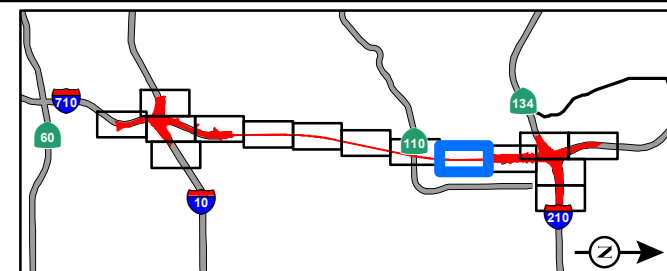


FIGURE 2-3
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SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- Tunnel Segment
- Modeled Receptor Locations
- Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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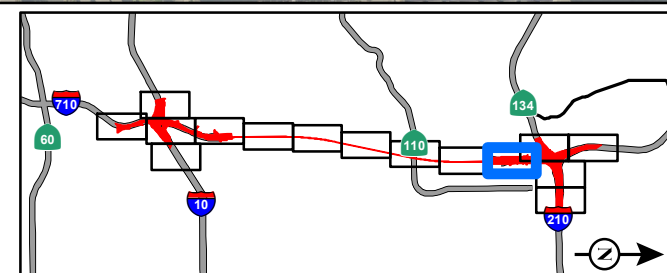


FIGURE 2-3
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SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
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LEGEND

- Freeway Tunnel Single Bore Geometrics
- Proposed Right-of-Way
- Tunnel Segment
- Single Bore Freeway Tunnel Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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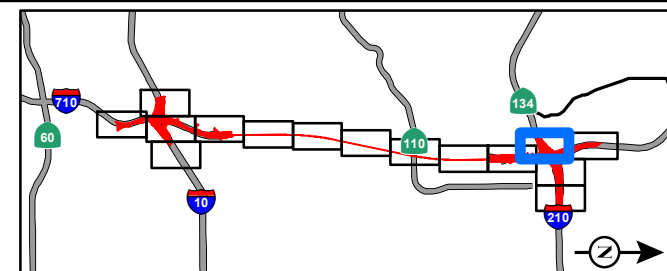
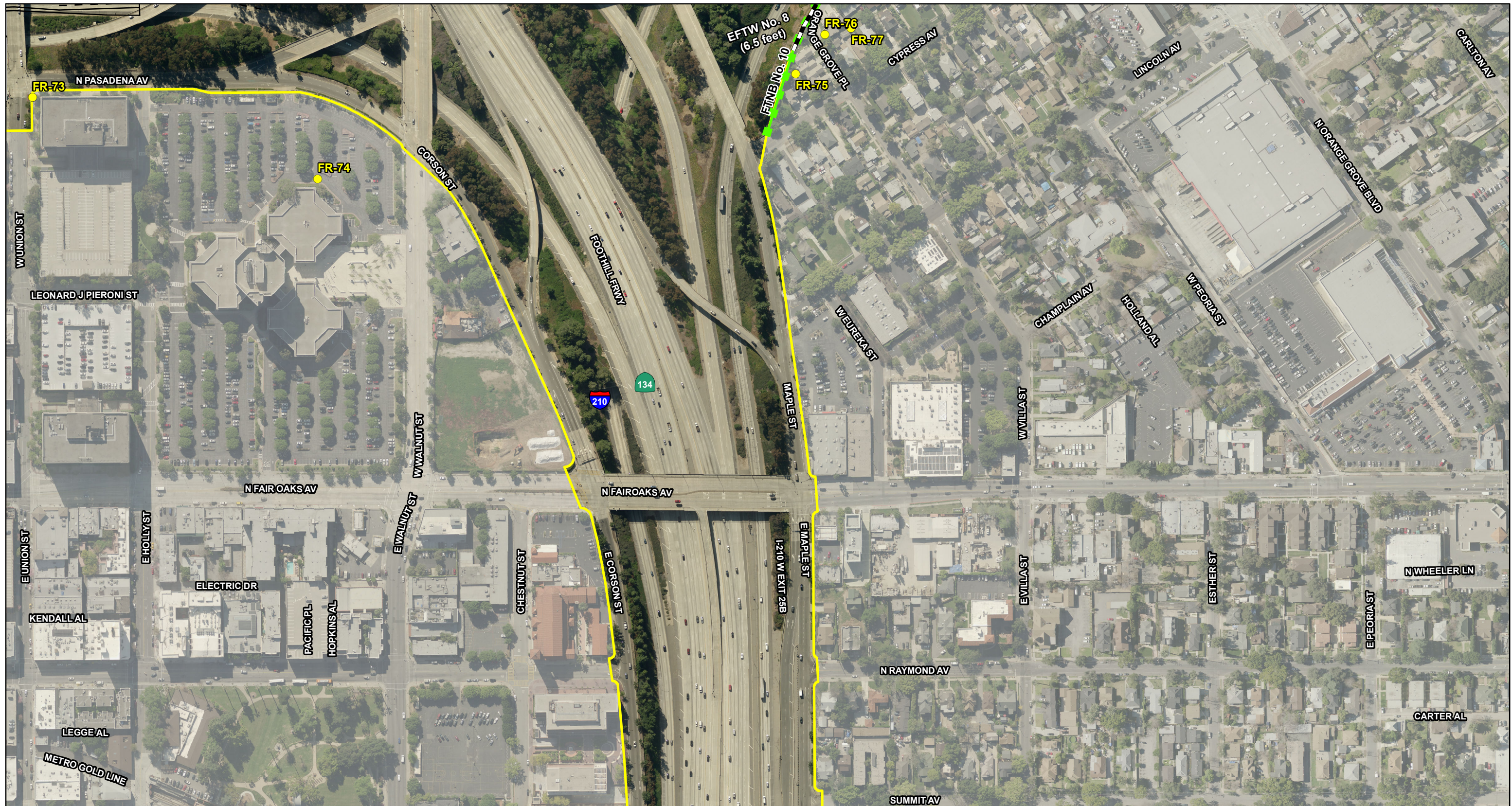


FIGURE 2-3
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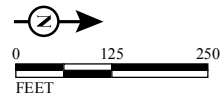
SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
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LEGEND

- Freeway Tunnel Single Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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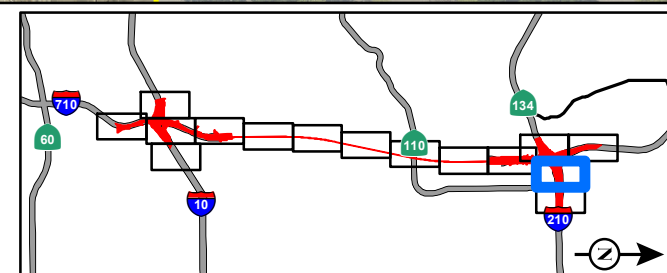
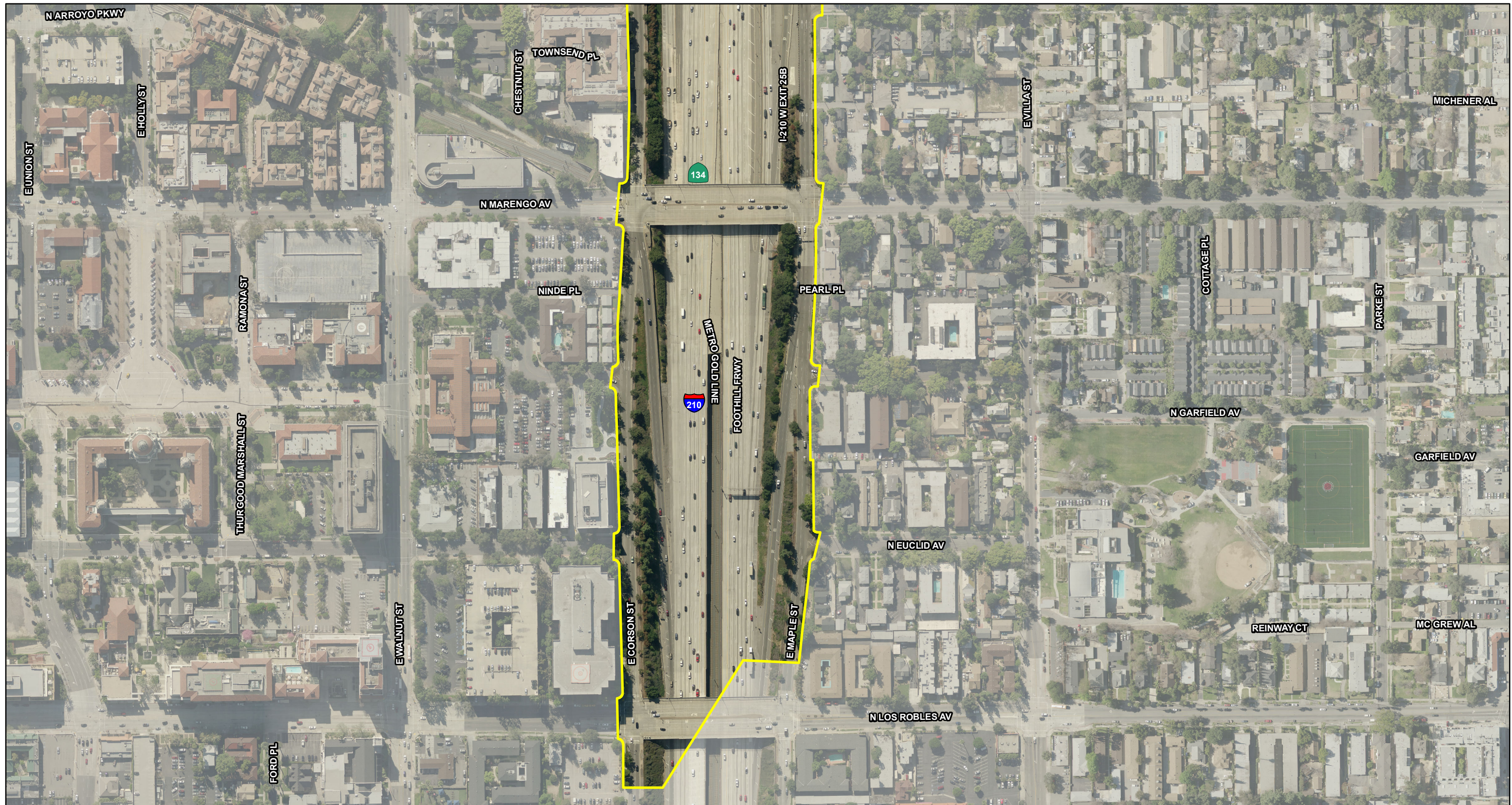


FIGURE 2-3
Sheet 13 of 15

SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Single Bore Freeway Tunnel Alternative
- ▬ Existing Walls
- ▬ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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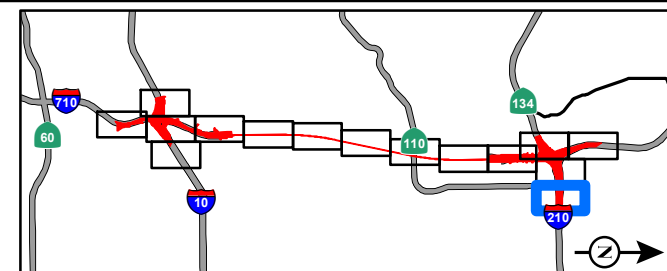
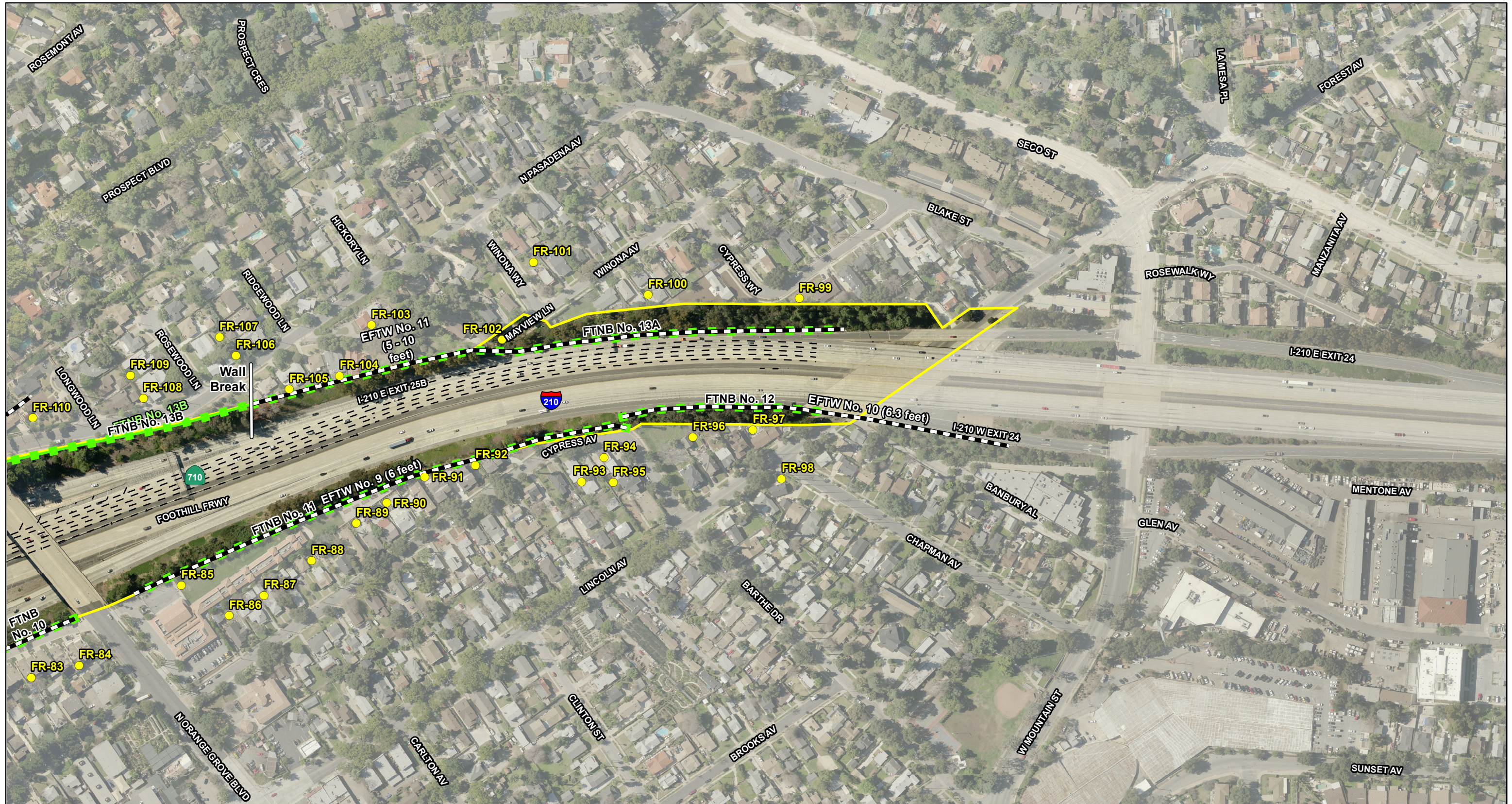


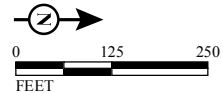
FIGURE 2-3
 Sheet 14 of 15

SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Single Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Single Bore Geometries
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Single Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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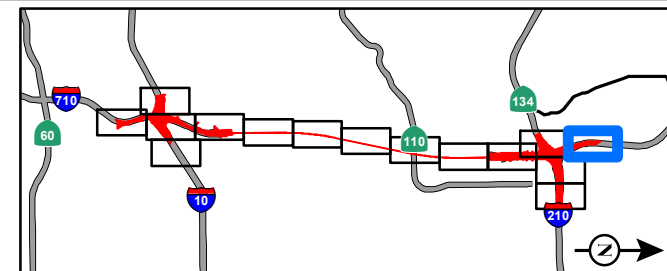


FIGURE 2-3
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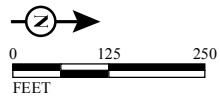
SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Single Bore Barrier Design

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EA 187900
EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Dual Bore Freeway Tunnel Alternative
- ▬ Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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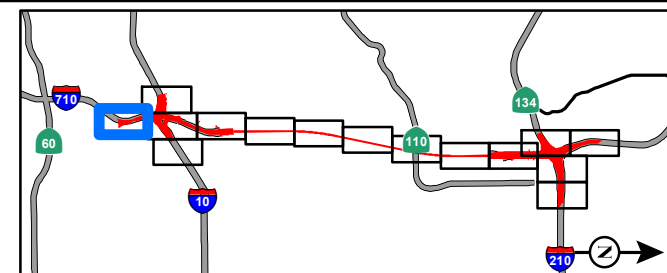


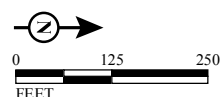
FIGURE 2-4
 Sheet 1 of 15

SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Dual Bore Freeway Tunnel Alternative
- ▬ Existing Walls
- ▬ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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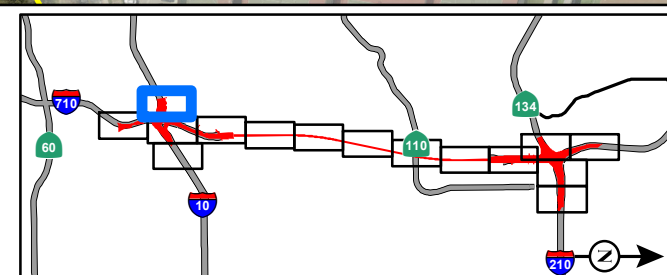


FIGURE 2-4
 Sheet 2 of 15

SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Dual Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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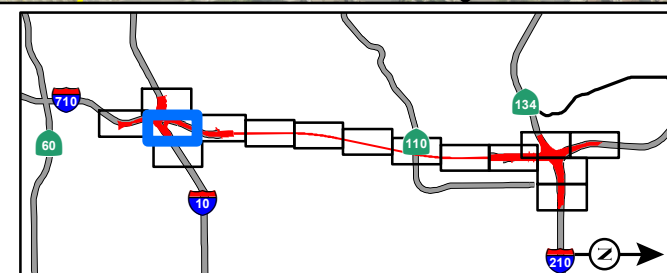
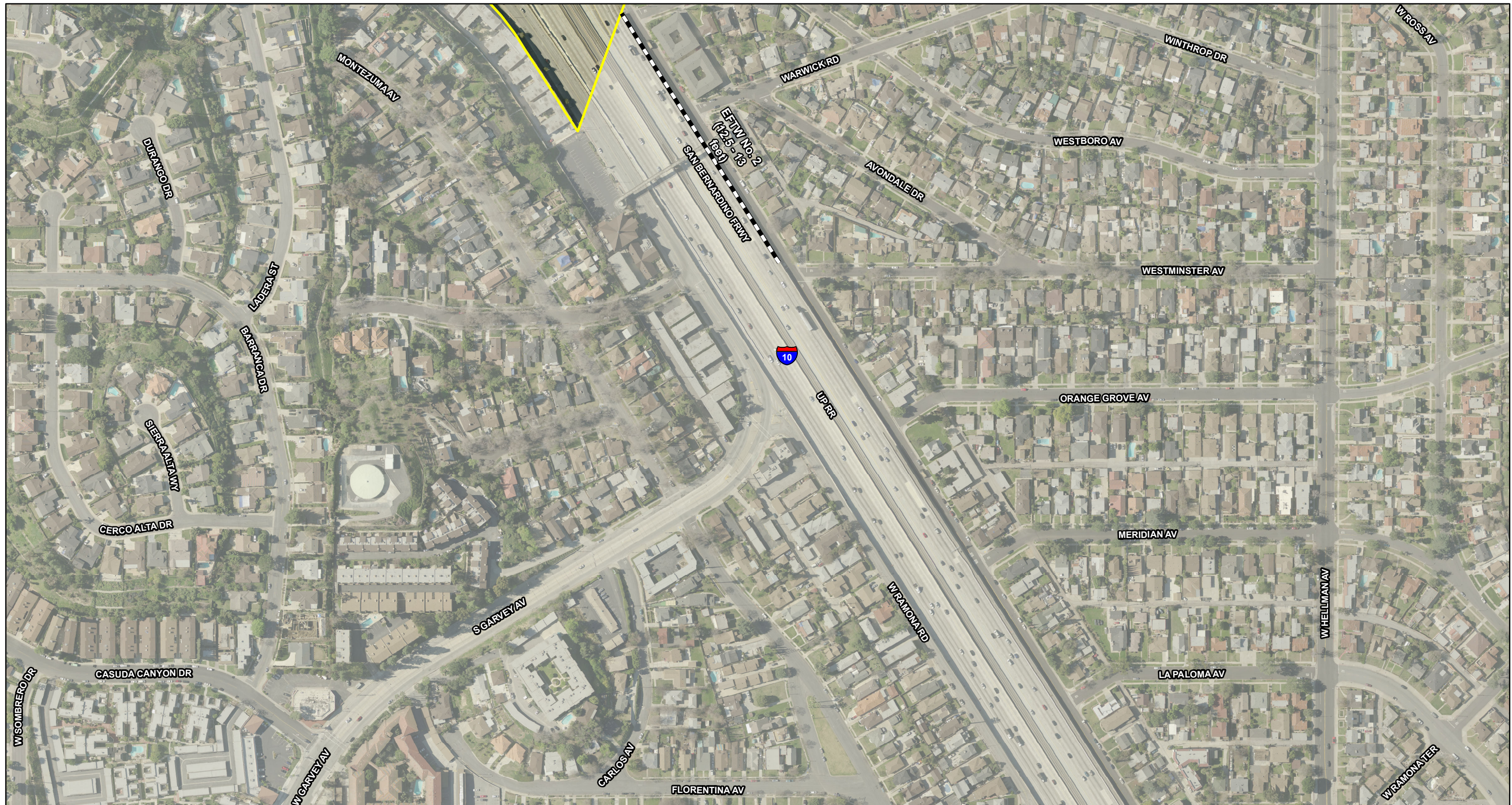


FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Dual Bore Freeway Tunnel Alternative
- ▬ Existing Walls
- ▬ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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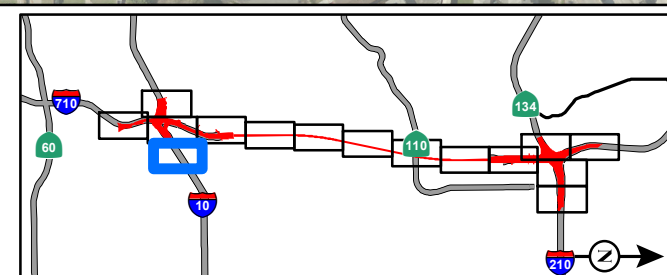


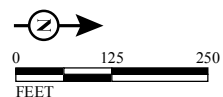
FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- Tunnel Segment
- Modeled Receptor Locations
- Dual Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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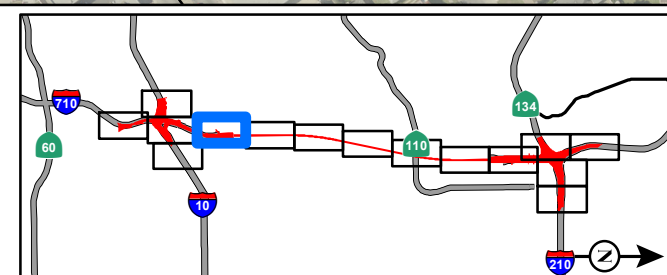
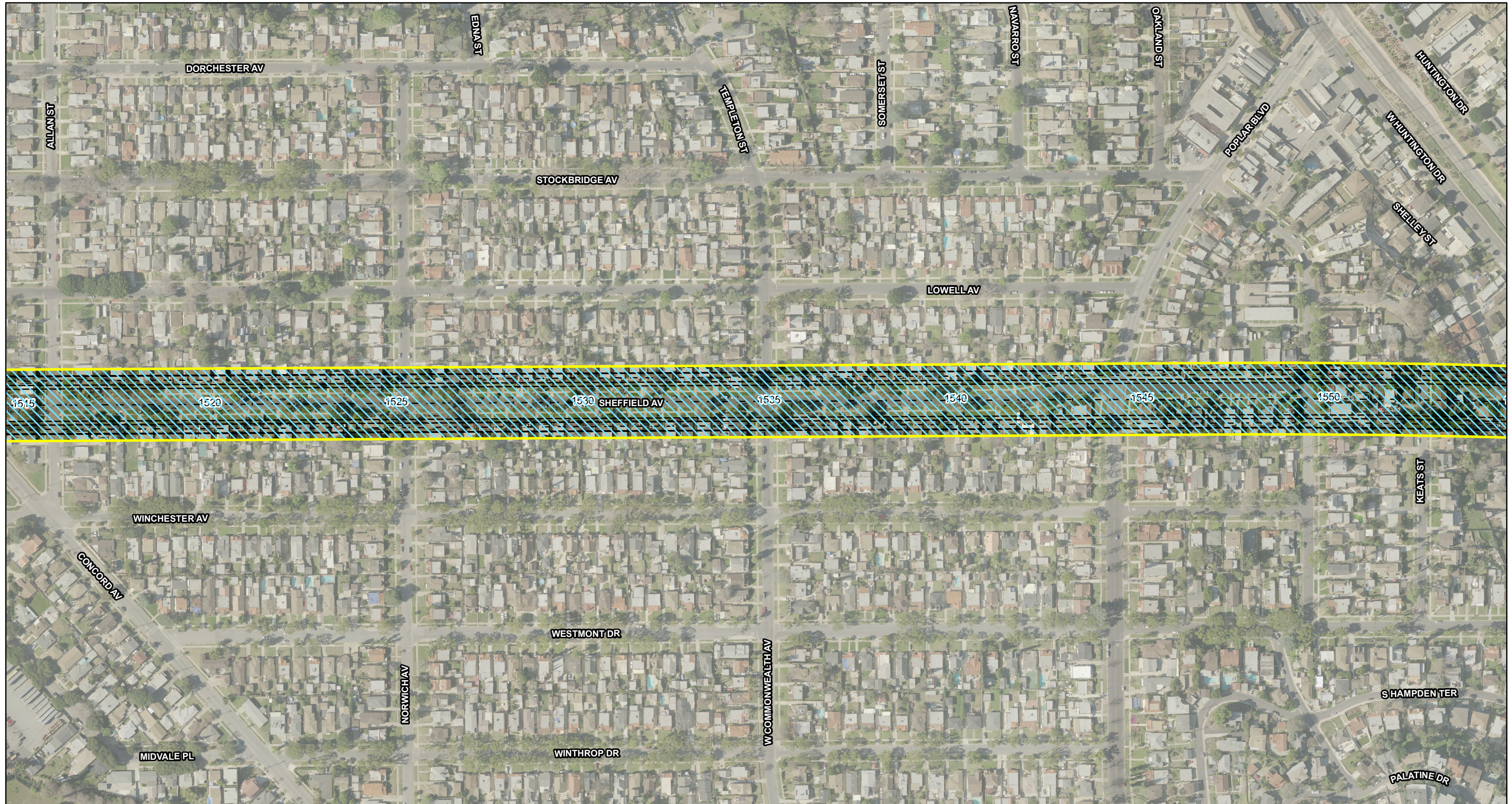


FIGURE 2-4
 Sheet 5 of 15

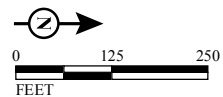
SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design

07-LA-710 (SR 710)
 EA 187900
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LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Dual Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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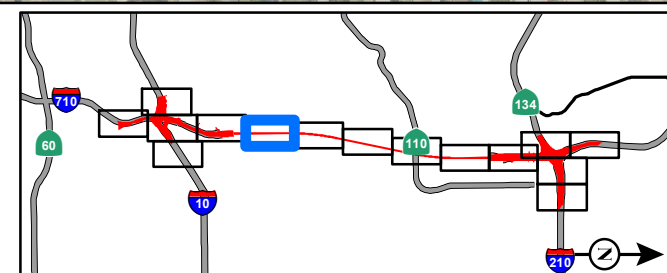
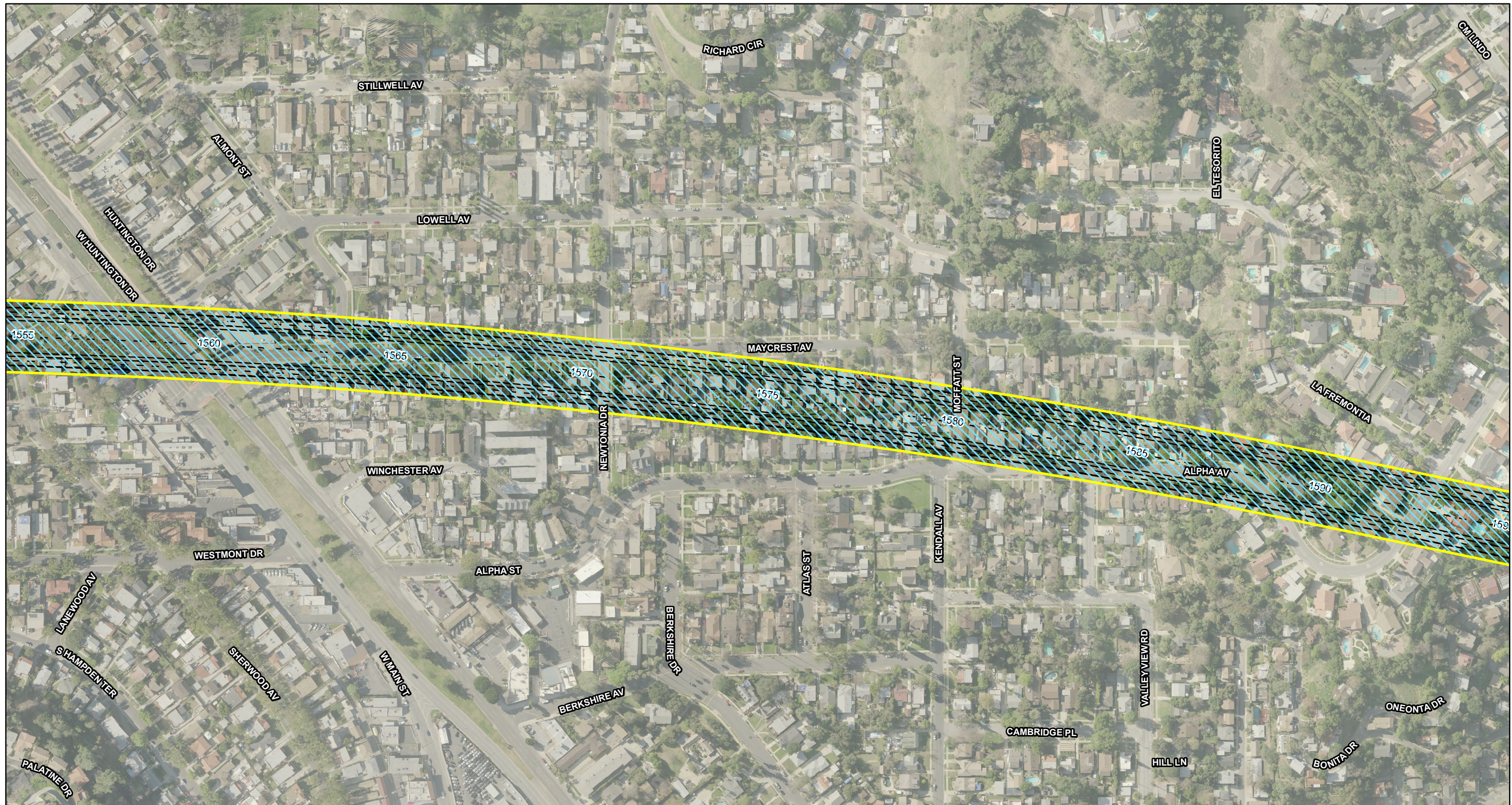


FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
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LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Dual Bore Freeway Tunnel Alternative
- ▬ Existing Walls
- ▬ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)

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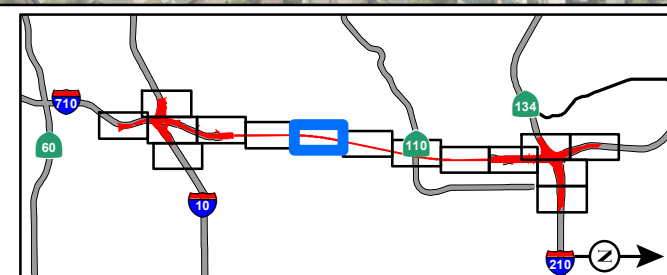
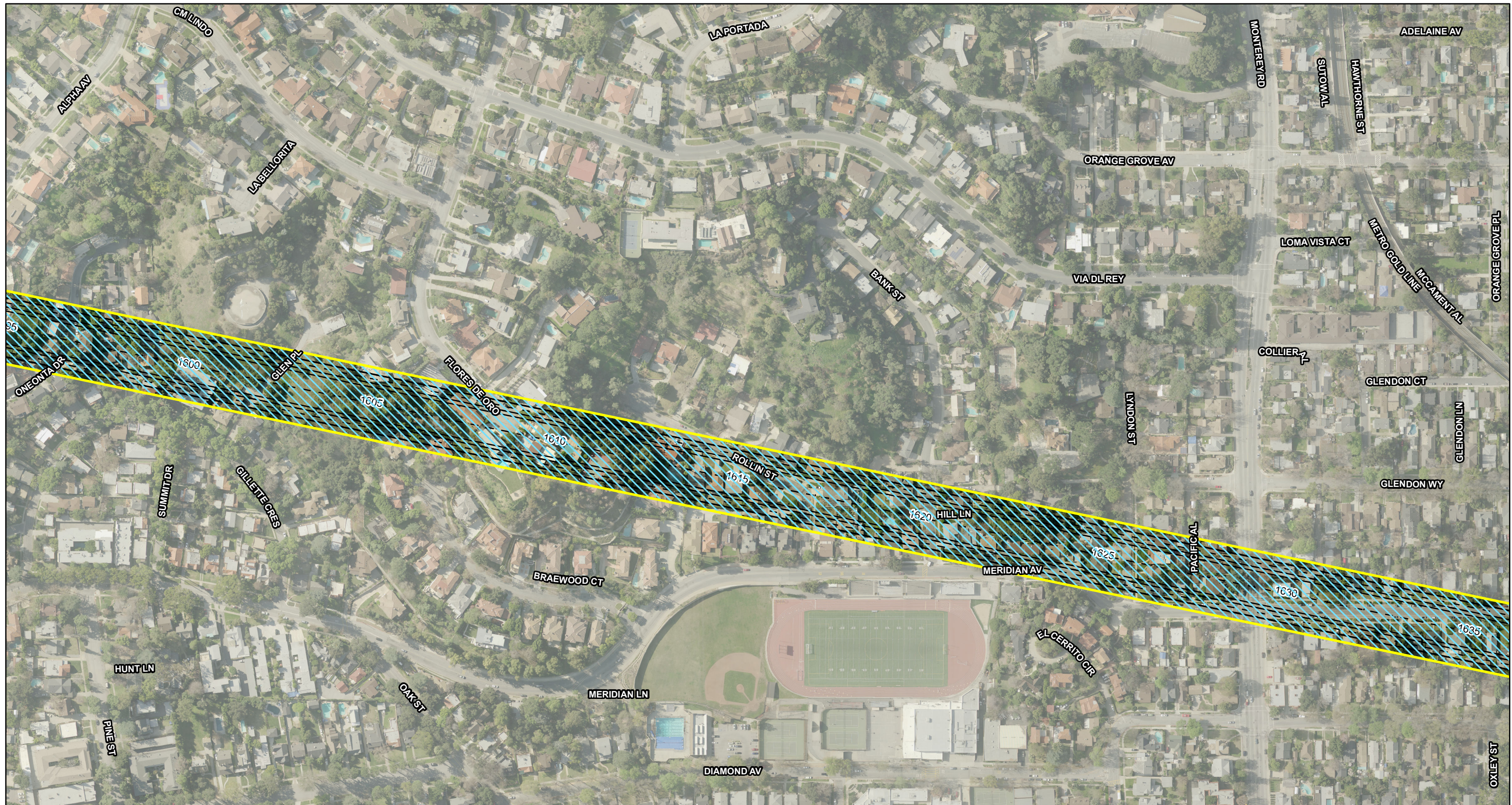


FIGURE 2-4
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SR 710 North Study
Modeled Noise Barriers for the Freeway Alternative -
Dual Bore Barrier Design

07-LA-710 (SR 710)
EA 187900
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LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Dual Bore Freeway Tunnel Alternative
- Existing Walls
- ▨ Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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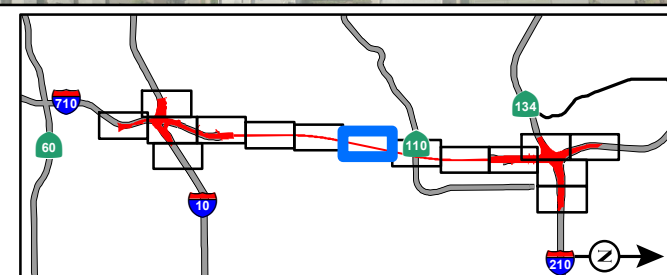
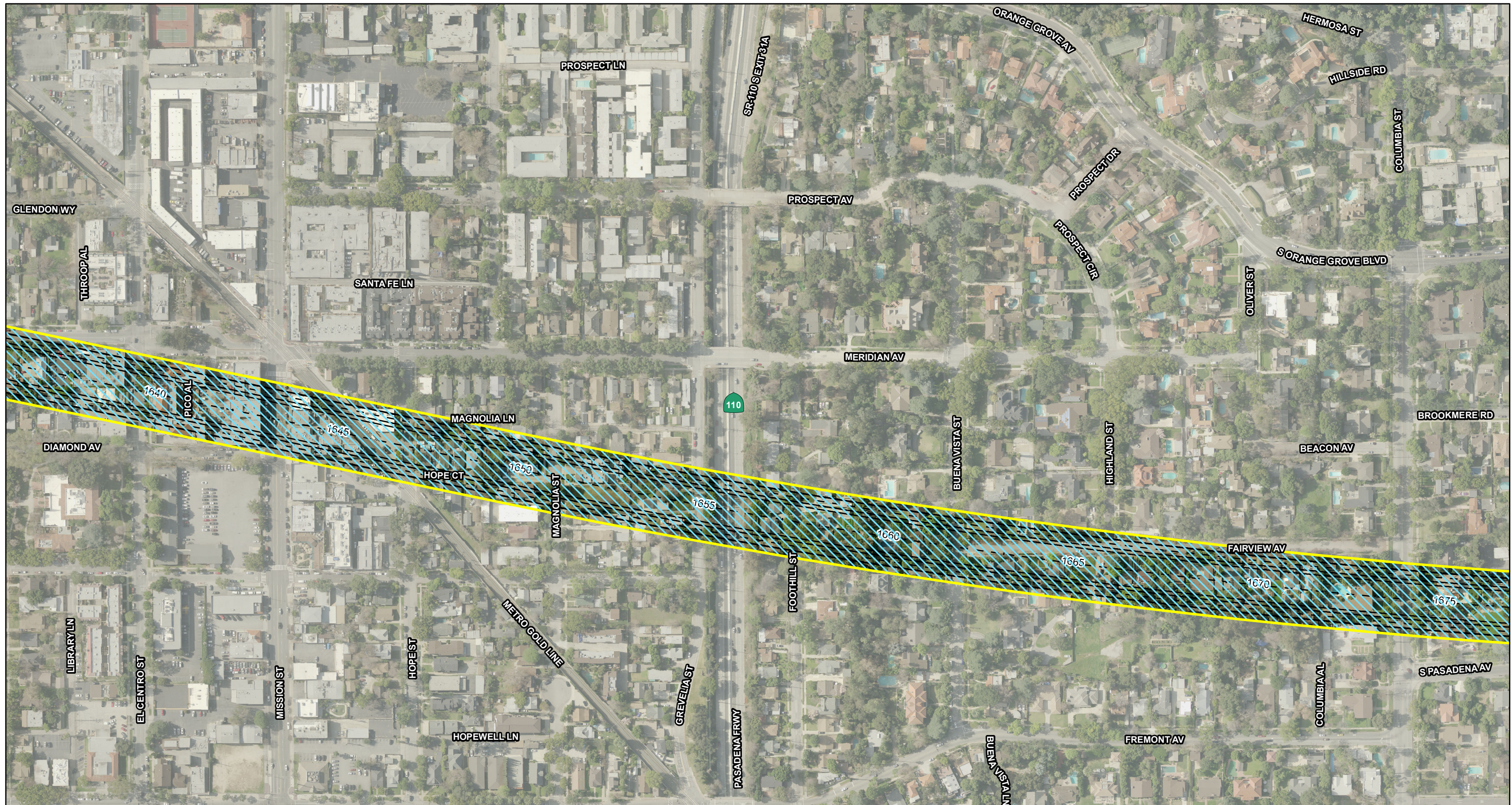


FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
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LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Dual Bore Freeway Tunnel Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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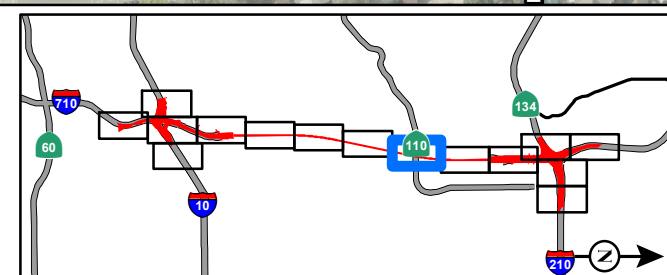
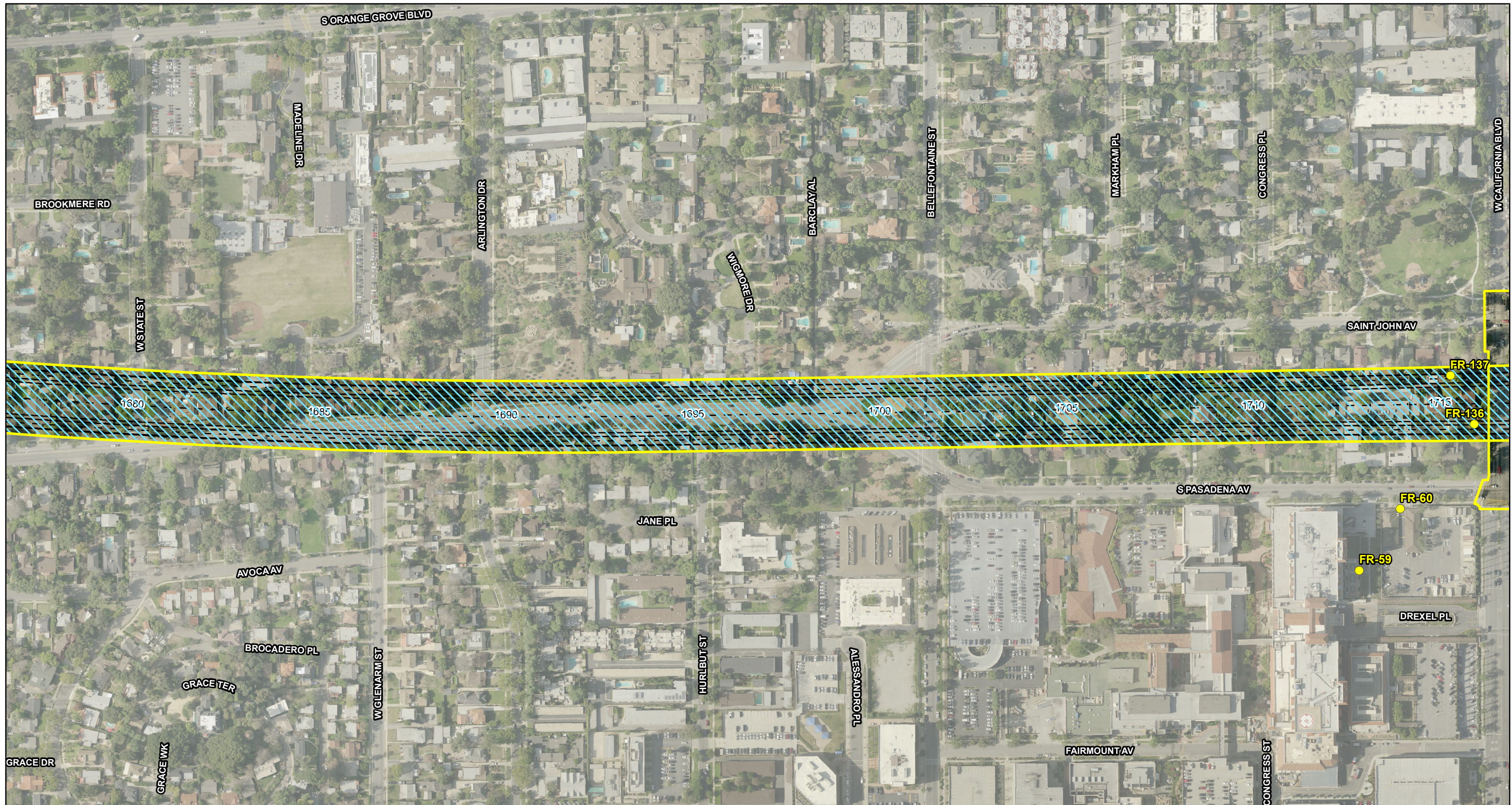


FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design

07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Dual Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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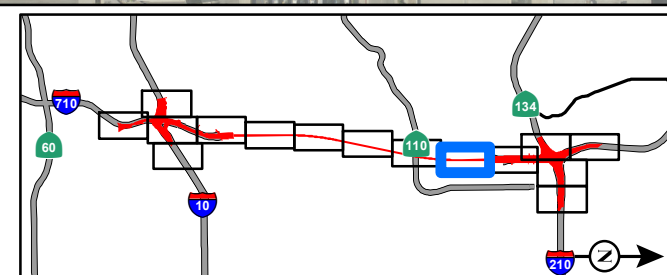


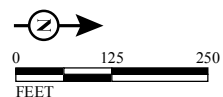
FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Dual Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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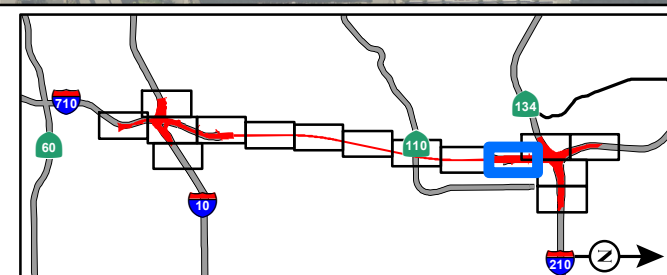


FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design

07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Dual Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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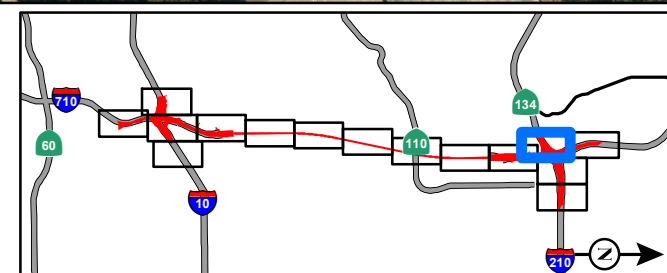
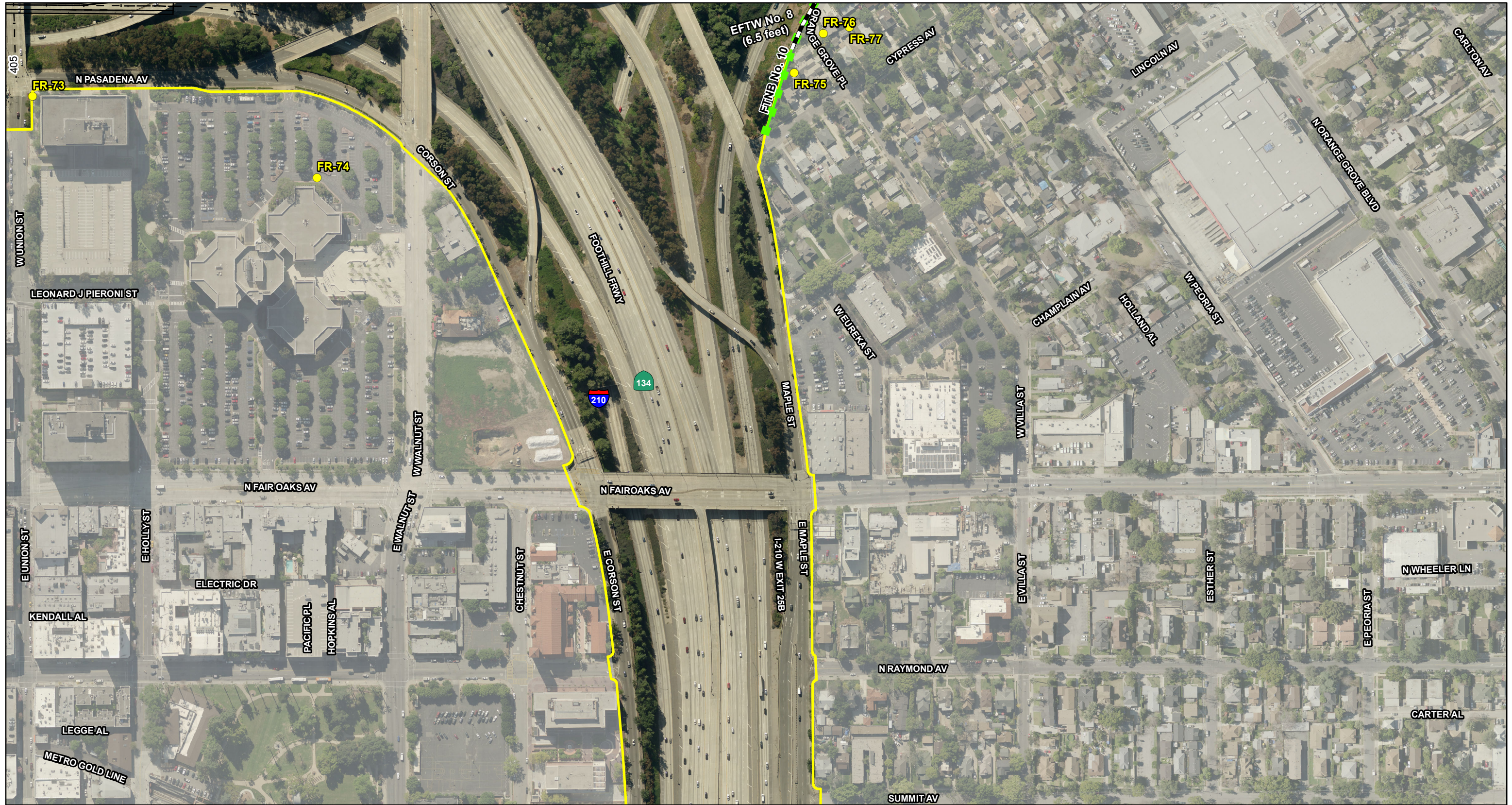


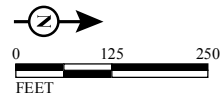
FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Dual Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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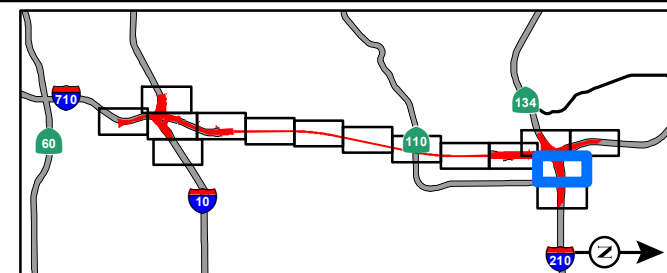
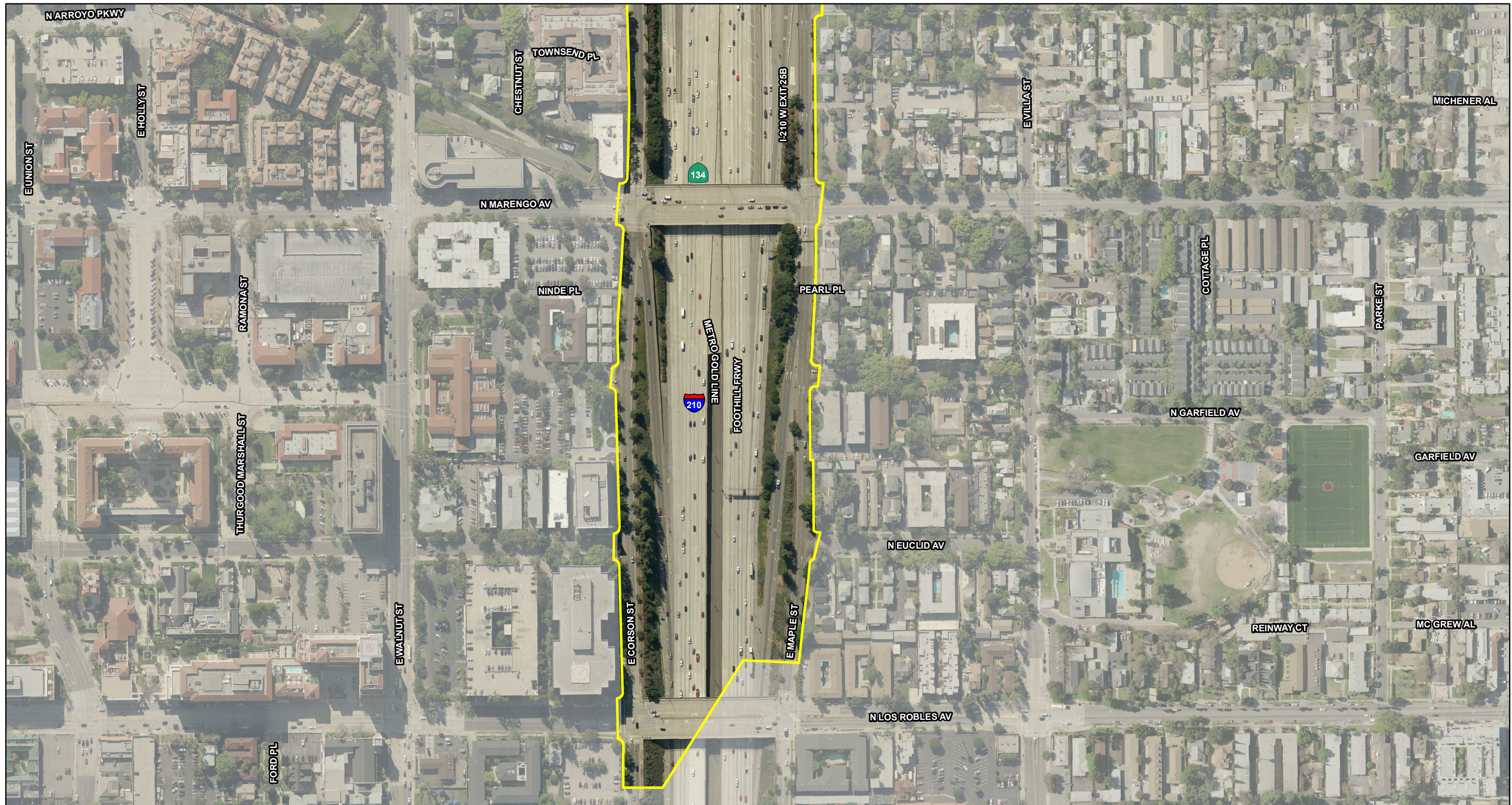


FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Proposed Right-of-Way
- ▨ Tunnel Segment
- ▭ Dual Bore Freeway Tunnel Alternative
- Existing Walls
- Modeled Noise Barriers
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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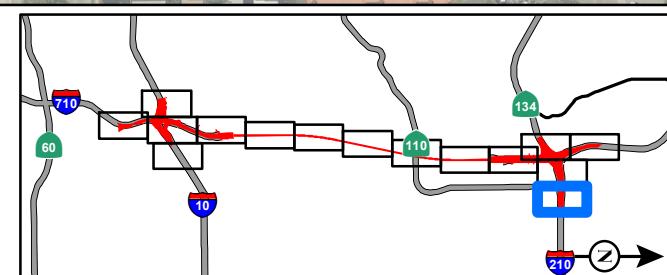


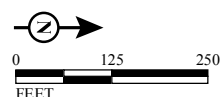
FIGURE 2-4
 Sheet 14 of 15

SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- Freeway Tunnel Dual Bore Geometrics
- Existing Walls
- Proposed Right-of-Way
- Modeled Noise Barriers
- ▨ Tunnel Segment
- Modeled Receptor Locations
- ▭ Dual Bore Freeway Tunnel Alternative



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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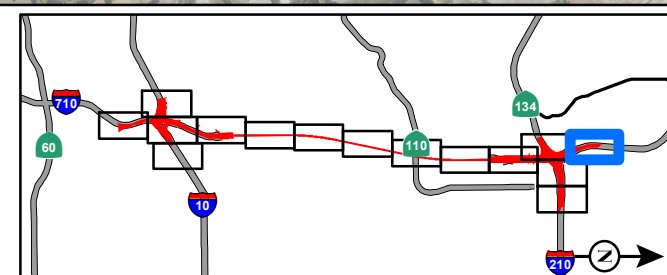
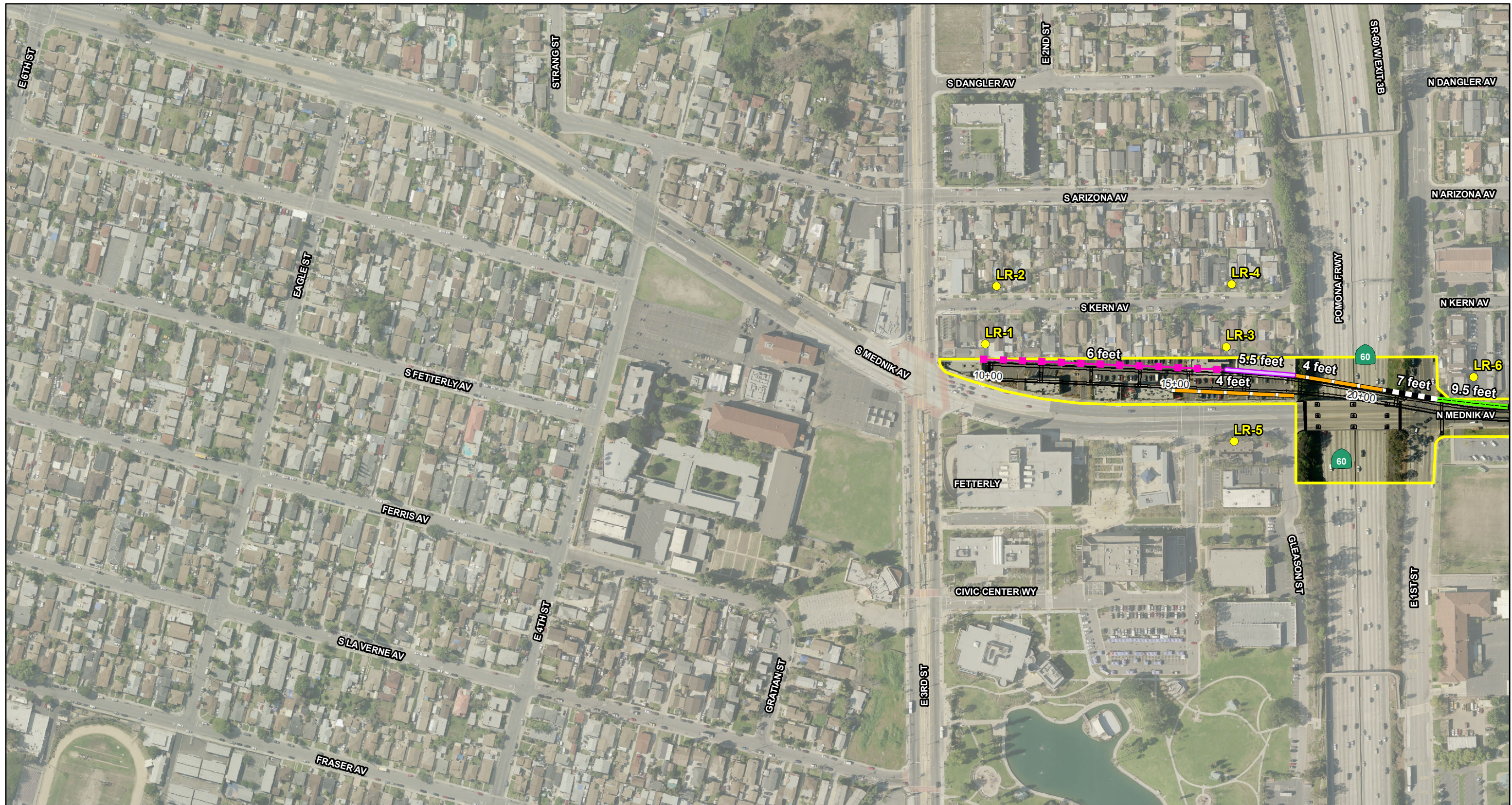


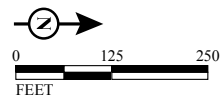
FIGURE 2-4
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SR 710 North Study
 Modeled Noise Barriers for the Freeway Alternative -
 Dual Bore Barrier Design
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- LRT Geometrics
- Modeled Noise Barriers: 4 feet
- Modeled Noise Barriers: 5 feet
- Modeled Noise Barriers: 5.5 feet
- Modeled Noise Barriers: 6 feet
- Modeled Noise Barriers: 7 feet
- Modeled Noise Barriers: 9.5 feet
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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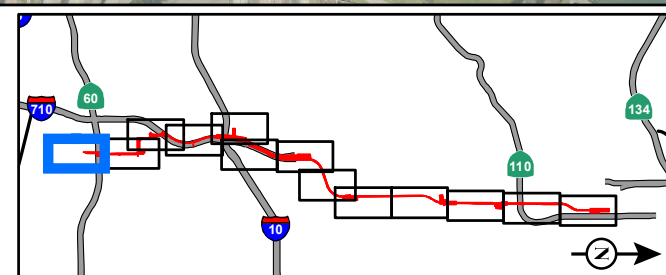
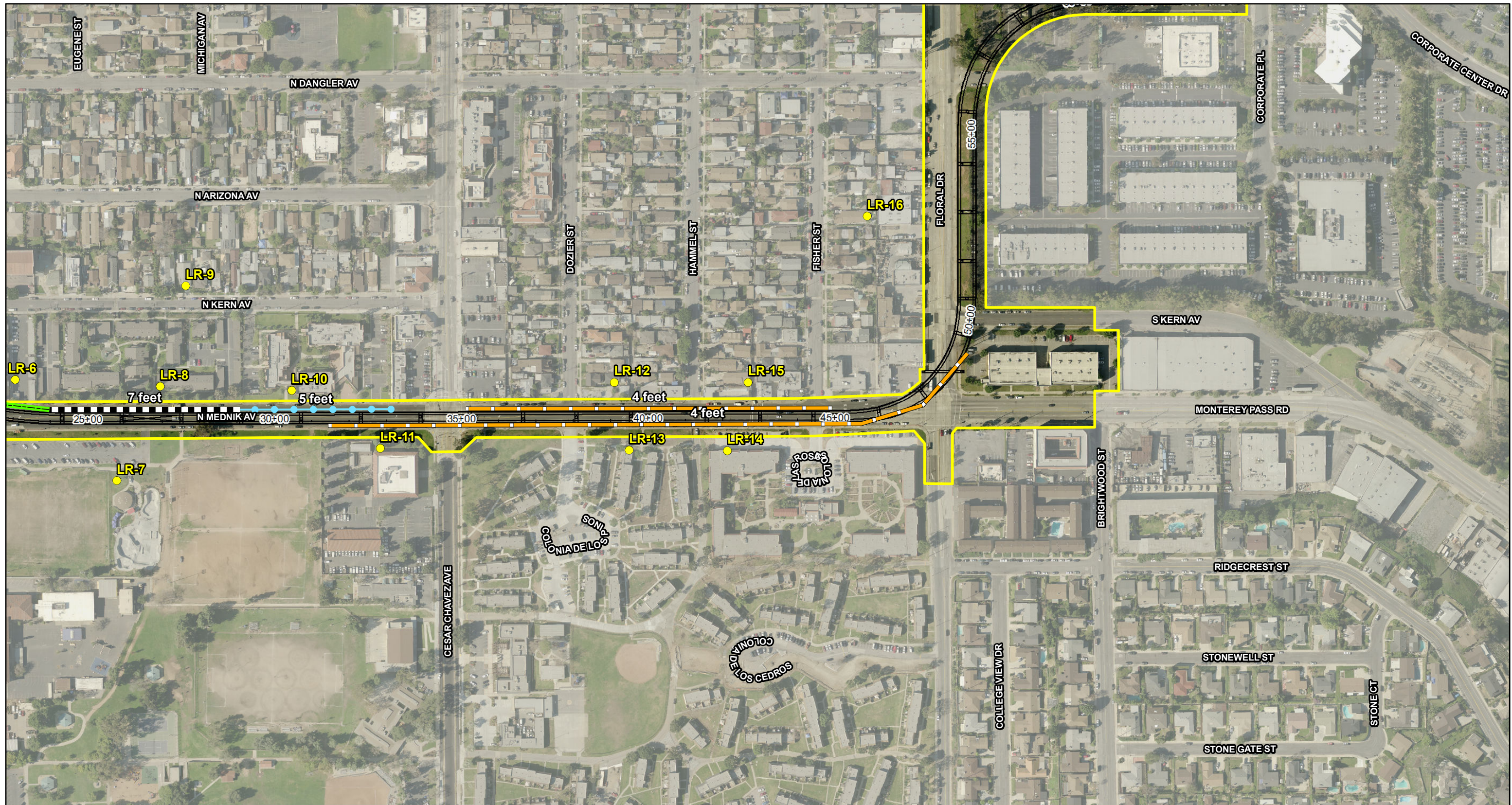


FIGURE 2-5
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SR 710 North Study
 Modeled Noise Barriers for the LRT Alternative
 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- LRT Geometrics
- Modeled Noise Barriers: 4 feet
- Modeled Noise Barriers: 6 feet
- Modeled Noise Barriers: 5 feet
- Modeled Noise Barriers: 5.5 feet
- Modeled Noise Barriers: 7 feet
- Modeled Noise Barriers: 9.5 feet
- Modeled Receptor Locations

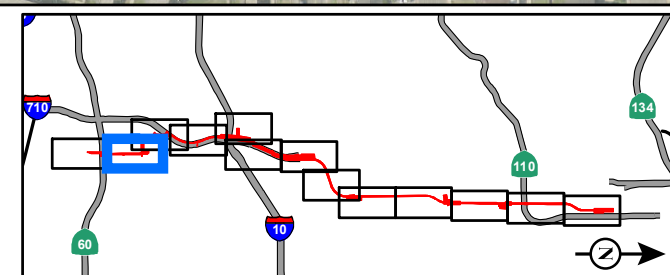
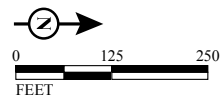


FIGURE 2-5
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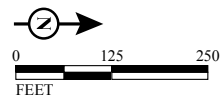
SR 710 North Study
Modeled Noise Barriers for the LRT Alternative

07-LA-710 (SR 710)
EA 187900
EFIS 0700000191



LEGEND

- | | | |
|-------------------|------------------------------------|------------------------------------|
| — LRT Geometrics | — Modeled Noise Barriers: 4 feet | — Modeled Noise Barriers: 6 feet |
| — LRT Alternative | — Modeled Noise Barriers: 5 feet | — Modeled Noise Barriers: 7 feet |
| | — Modeled Noise Barriers: 5.5 feet | — Modeled Noise Barriers: 9.5 feet |
| | | ● Modeled Receptor Locations |



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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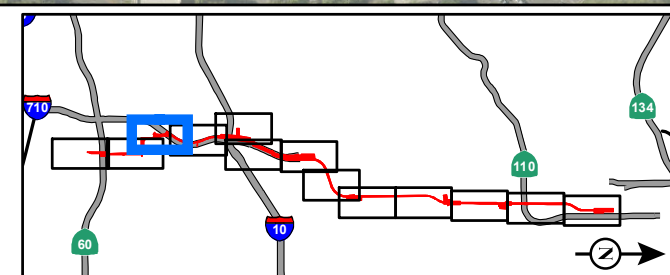


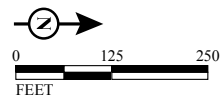
FIGURE 2-5
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SR 710 North Study
 Modeled Noise Barriers for the LRT Alternative
 07-LA-710 (SR 710)
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 EFIS 0700000191



LEGEND

- LRT Geometrics
- Modeled Noise Barriers: 4 feet
- Modeled Noise Barriers: 5 feet
- Modeled Noise Barriers: 5.5 feet
- Modeled Noise Barriers: 6 feet
- Modeled Noise Barriers: 7 feet
- Modeled Noise Barriers: 9.5 feet
- Modeled Receptor Locations



SOURCE: Thomas Brothers (2011); LARIAC (12/2010); CH2M Hill (2014)
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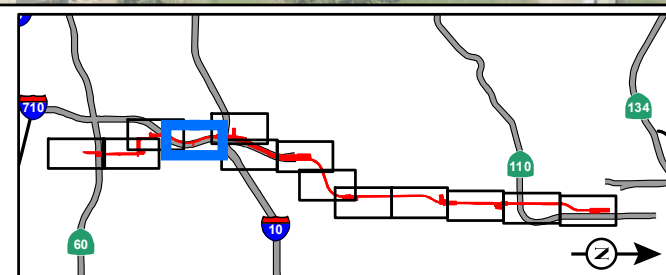


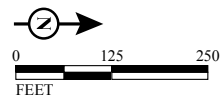
FIGURE 2-5
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 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

- LRT Geometrics
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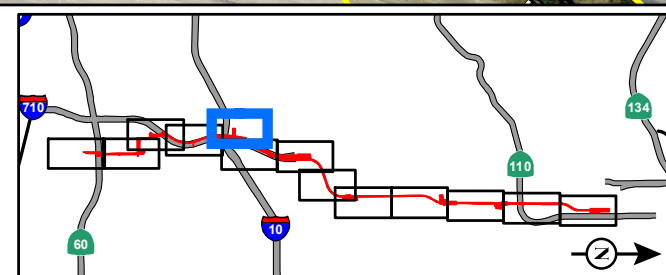


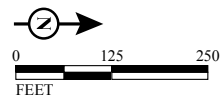
FIGURE 2-5
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SR 710 North Study
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 07-LA-710 (SR 710)
 EA 187900
 EFIS 0700000191



LEGEND

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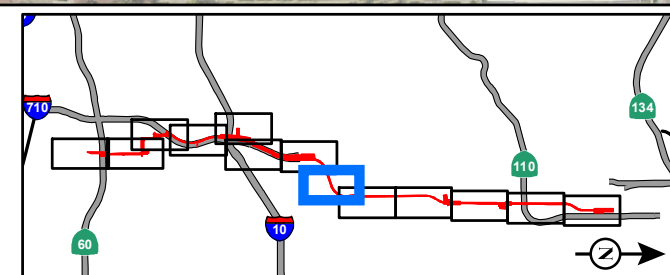
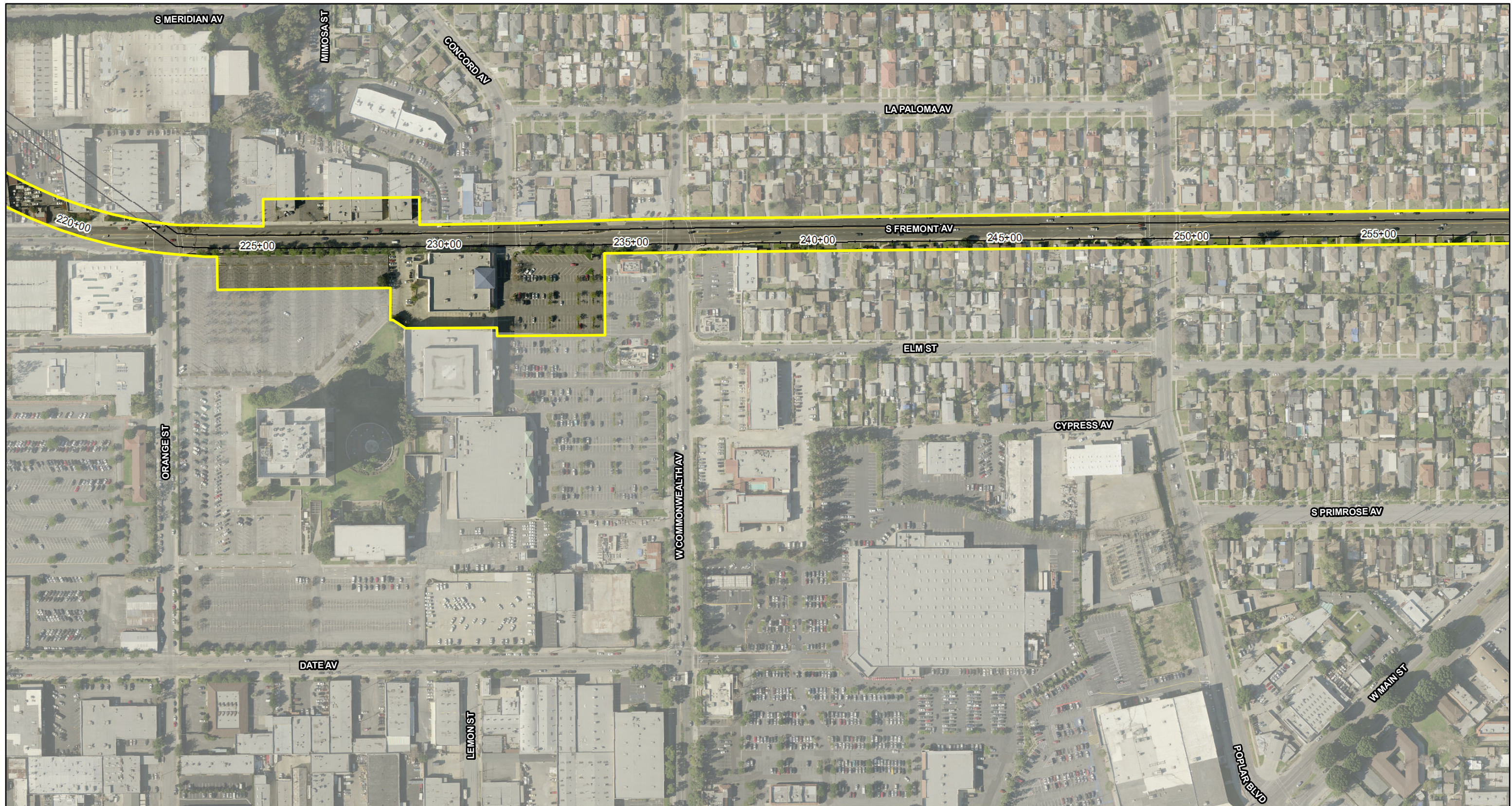


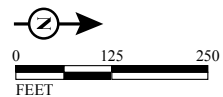
FIGURE 2-5
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SR 710 North Study
 Modeled Noise Barriers for the LRT Alternative
 07-LA-710 (SR 710)
 EA 187900
 EFIS 070000191



LEGEND

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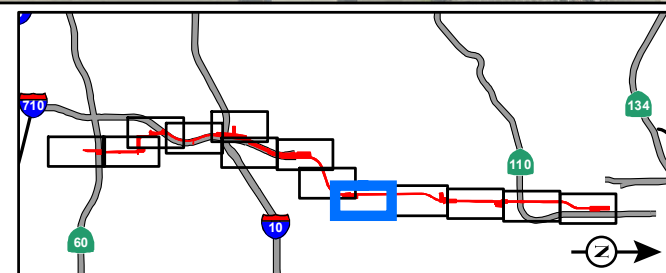
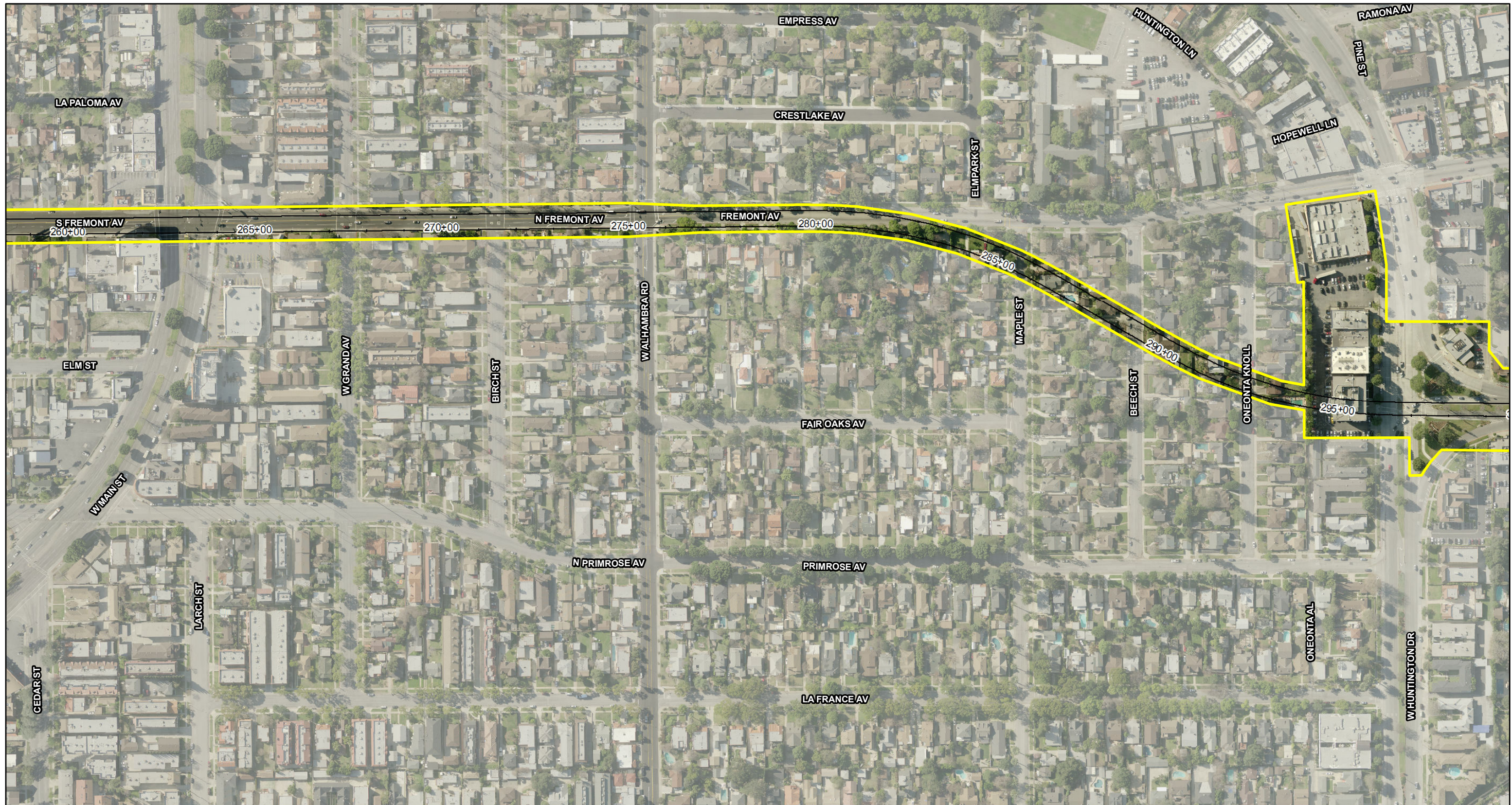


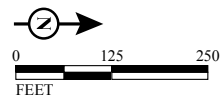
FIGURE 2-5
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 EA 187900
 EFIS 0700000191



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- LRT Alternative



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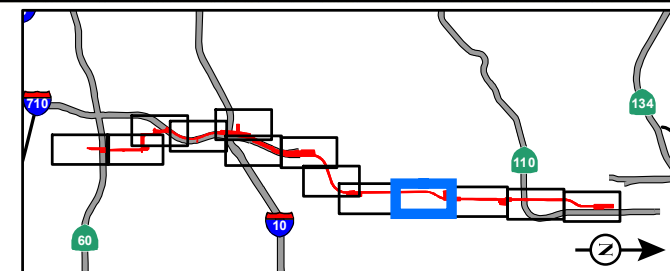
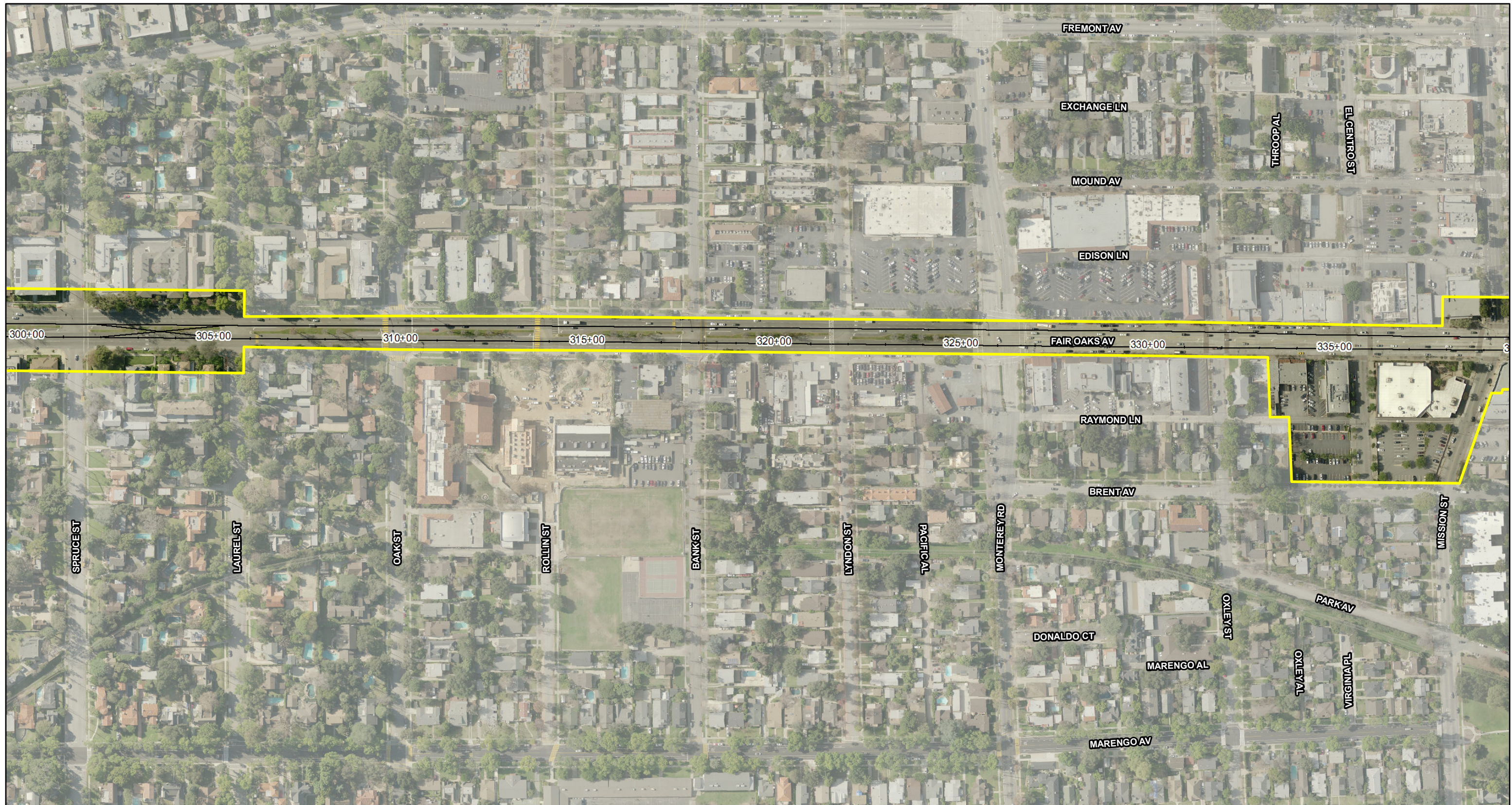


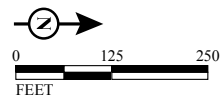
FIGURE 2-5
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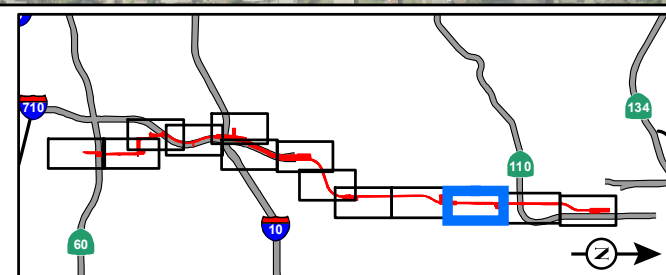
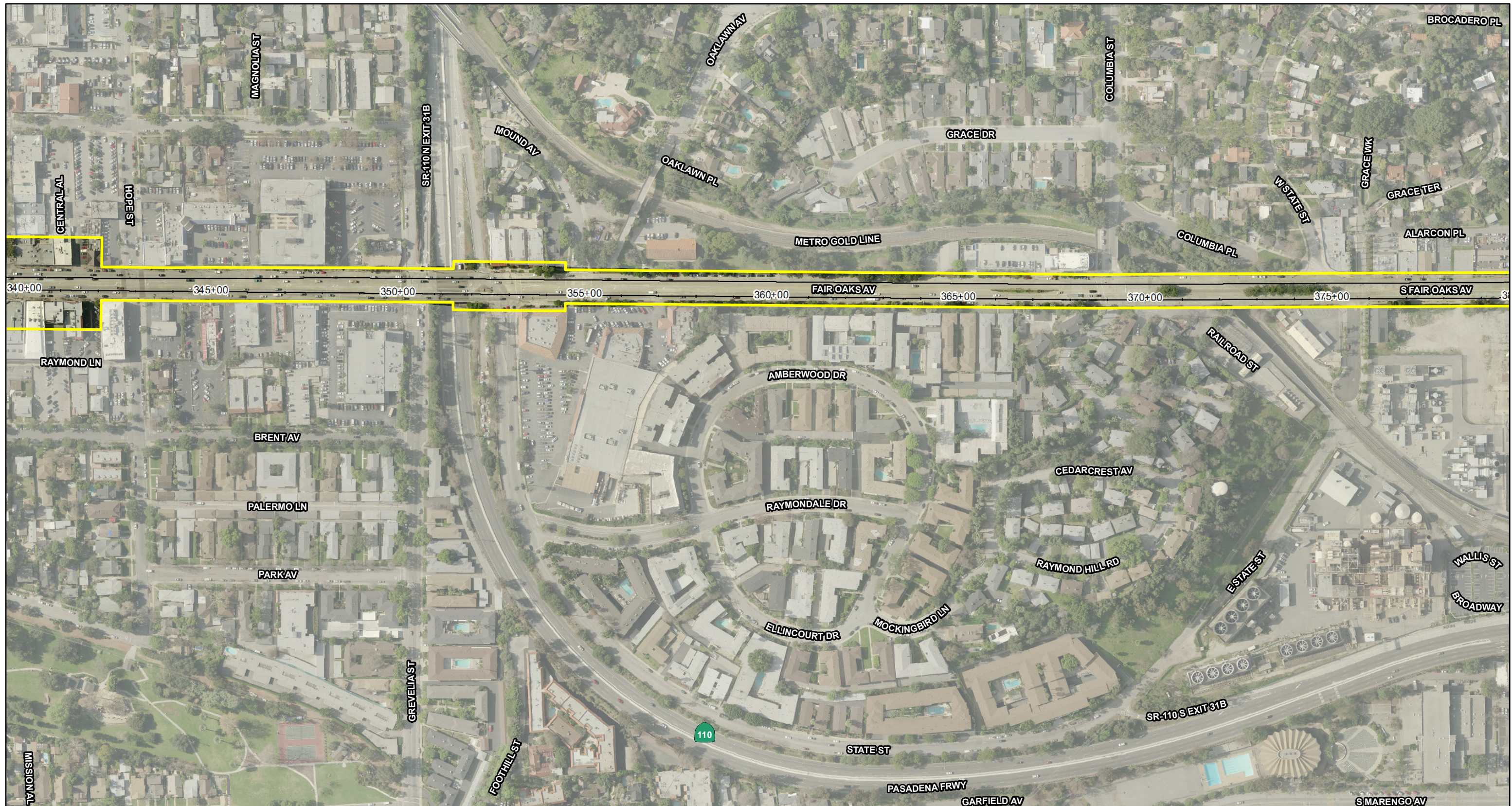


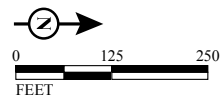
FIGURE 2-5
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SR 710 North Study
 Modeled Noise Barriers for the LRT Alternative
 07-LA-710 (SR 710)
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LEGEND

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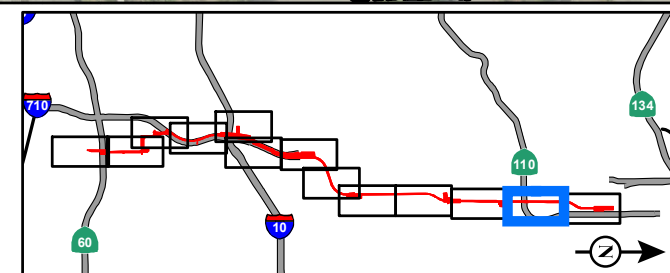


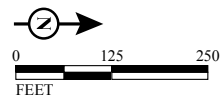
FIGURE 2-5
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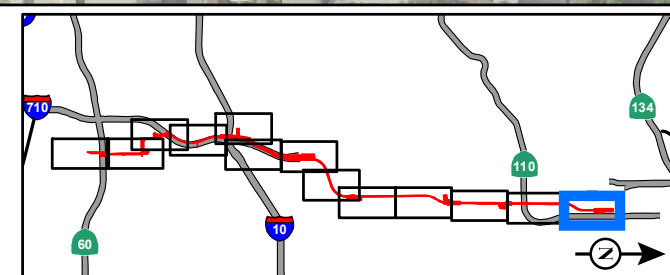


FIGURE 2-5
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