

LA Metro  
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# TREE INVENTORY

FEBRUARY 29, 2016

*East San Fernando Valley Transit Corridor Study Draft EIS/EIR*



**Metro**



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## Abbreviations

2008 RCP	2008 Regional Comprehensive Plan
2012 RTP	2012–2035 Regional Transportation Plan/Sustainable Communities Strategy
AA	Alternatives Analysis
BRT	bus rapid transit
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CPA	Community Plan Area
DEIR	Draft Environmental Impact Report
DEIS	Draft Environmental Impact Statement
FTA	Federal Transit Administration
Growth Vision	2004 Compass Blueprint Growth Vision
HOV	high-occupancy vehicle
I	Interstate [I]
LADOT	Los Angeles Department of Transportation
LRT	light rail transit
L RTP	Long-Range Transportation Plan
Metro	Los Angeles County Metropolitan Transportation Authority
MPO	Metropolitan Planning Organization
MSF	maintenance and storage facility
NEPA	National Environmental Policy Act
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SCAG	Southern California Association of Governments
SR	State Route
TSM	Transportation System Management
U.S.C.	United States Code

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## East San Fernando Valley Transit Corridor Project Area





# INTRODUCTION

## Introduction

### BACKGROUND

The Federal Transit Administration (FTA) and Los Angeles County Metropolitan Transportation Authority (Metro) have initiated a Draft Environmental Impact Statement (DEIS)/Environmental Impact Report (DEIR) for the East San Fernando Valley Transit Corridor Project (Project). The DEIS/DEIR is being prepared with the FTA as the Lead Agency under the National Environmental Policy Act (NEPA) and Metro as the Lead Agency under the California Environmental Quality Act (CEQA).

The following six alternatives, including four build alternatives, a TSM Alternative, and the No-Build Alternative, are being evaluated as part of this study:

- No-Build Alternative
- TSM Alternative
- Build Alternative 1 – Curb-Running BRT Alternative
- Build Alternative 2 – Median-Running BRT Alternative
- Build Alternative 3 – Low-Floor LRT/Tram Alternative
- Build Alternative 4 –LRT Alternative

All build alternatives would operate over 9.2 miles, either in a dedicated bus lane or guideway (6.7 miles) and/or in mixed-flow traffic lanes (2.5 miles), from the Sylmar/San Fernando Metrolink station to the north to the Van Nuys Metro Orange Line station to the south, with the exception of Build Alternative 4 which includes a 2.5-mile segment within Metro-owned railroad right-of-way adjacent to San Fernando Road and Truman Street and a 2.5-mile underground segment beneath portions of Panorama City and Van Nuys.

On June 25, 2015, Metro meet with representatives from KOA and ICF to discuss the need to identify any street trees that could be impacted by advanced utility work, construction activities, and sidewalk and roadway modifications for each alternative. It was determined that a general Tree Inventory would be conducted by Metro and disclosed in the DEIS/DEIR to better inform stakeholders, the public, and decision makers of the trees that could be removed by one of the four build alternatives.

### METHODOLOGY

Metro conducted a Tree Inventory along the 9.2 mile project alignment within the Cities of Los Angeles and San Fernando. A combination of drive by window surveys, walking, and aerial mapping were used to conduct estimated tree counts. Trees within each City's owned right-of-way open and available for inspection were counted and included in aerial

# INTRODUCTION

maps in the attached Tree Inventory Report (see Appendix A). To determine the amount of potentially impacted trees for each alternative, the tree inventory was compared to the areas of sidewalk and roadway modifications identified in the Conceptual Engineering (CE) Alignment Design Drawings prepared by KOA (see Appendix B).

General sizes for the impacted trees were also evaluated and placed in the following categories.

- Small:  $\leq$  5ft tall and/or observed to be newly planted
- Medium: Between 5ft -15ft and/or observed to be around 3-7 years in age
- Large:  $\geq$  15ft and/or observed to be mature (large trunk and/or Canopy) and over 7-years

**SMALL**



**MEDIUM**



**LARGE**



SOURCE: METRO, 2015

For Real Estate Acquisition, Railroad Right-of-Way, or areas not accessible by field observation, no tree inventory was conducted.

Prior to construction of any alternative, however, an arboricultural inventory and evaluation tree report would need to be prepared, by a qualified arborist, for the project and approved by each City. Trees approved for removal (or replacement) shall be done in accordance to the specifications outlined in City of Los Angeles Tree Ordinance 177404



# INTRODUCTION

and City of San Fernando Comprehensive Tree Management Program Ordinance (Ordinance No. 1539).

For more information on the types of trees in the study, including heritage trees, please see the East San Fernando Valley Transit Corridor *Ecosystems/Biological Resource Impacts Report*, prepared by [redacted] in [redacted] in Appendix [redacted] of this Draft EIS/EIR.

## FIELD INVESTIGATION

A site visit was conducted between 9:30 a.m. and 3:30 p.m. on June 30, 2015, between 9:30 a.m. and 3:30 p.m., and on July 14, 2015 between 11:45 a.m. and 4:30 p.m., by a Metro Urban/Transportation Planner and Summer Intern. Visibility was good for all days of the site visits.

The site visit focused on conducting an inventory of all trees located on sidewalks and medians along Van Nuys Boulevard and San Fernando Road. The effort included hand mapping the location of trees, documenting the general size (small, medium, and large) of trees, and taking photos of different trees along the 9.2 mile alignment.



# EXECUTIVE SUMMARY

## Executive Summary

### OBSERVATIONS

The entire 9.2 mile alignment within the Cities of Los Angeles and San Fernando right-of-way was open and available for inspection, with the exception of two locations where construction activities prevented access. No trees were present at either of the locations.

A wide variety of trees were observed in size, age, and species. In the Civic Center along Van Nuys Boulevard between the Metro Orange Line and Sherman Way, a concentration of mostly large palms 30-60 feet in height lined the sidewalks. At the Malls in Panorama City and at Roscoe/Chase, very large mature trees with large canopies lined the streets. Just north to the I-5 interchange, larger growth trees and a variety of small to median trees were observed. In the Pacoima area to San Fernando Road, trees were small to median sized and scattered further apart than other areas. Along the San Fernando Railroad Tracks

between Van Nuys Boulevard and the San Fernando Road/Truman Street split, small newly planted trees aligned the Class I Bicycle Path were observed. In the City of San Fernando's downtown, a centralized concentration of large mature trees were observed. In addition, three large median landscaped planter that housed medium to large trees were also observed. Below is an example of one located just north of Sherman Way.



# EXECUTIVE SUMMARY

The locations and impacted trees evaluated as part of this report are included in figures 2-1 through 2-12 in Appendix A. A summary of the impacted trees are discussed in the next section.

## FINDINGS

Approximately 1,141 trees were counted. Of the 1,141 trees, 884 (77%) were located in the City of Los Angeles and 257 (23%) in the City of San Fernando.

### No-Build

The No-Build Alternative would have no impact to street trees.

### TSM Alternative

The TSM Alternative would have no impact to street trees.

### Alternative 1 - Curb-Running BRT Alternative

The Curb-Running BRT Alternative would have no impact to street trees.

### Alternative 2 – Median-Running BRT

The Median-Running BRT Alternative would potentially impact 77 (7%) of the street trees.

### Alternative 3 – Low-Floor LRT/Tram

The Low-Floor LRT/Tram Alternative would potentially impact 386 (34%) of the street trees.

### Alternative 4 –LRT

The LRT Alternative would potentially impact 141 (12%) of the street trees.

A breakdown of the tree counts and impacted trees for each alternative are included in Tables 1-1 and 1-2.

# EXECUTIVE SUMMARY

Table 1-1: Tree Inventory - Counts

Locations	Total Trees	Impacted Trees			
		Alt 1	Alt 2	Alt 3	Alt 4
City of Los Angeles	884	0	77	167	141
City of San Fernando	257	0	0	219	0
<b>TOTAL</b>	<b>1141</b>	<b>0</b>	<b>77</b>	<b>386</b>	<b>141</b>

It should be noted, that the Low-Floor LRT/Tram Alternative is the only alternative that impacts trees in the City of San Fernando. This could be because the Alternative's amount of stations (28) compared to the other Alternatives (14, 17, and 18), the alignment the runs along San Fernando Road through City of San Fernando, and the extensive roadway reconfiguration that would be required. 84 percent of the trees inventoried in the City are impacted by Alternative 3.

Table 1-2: Tree Inventory – Percentages

Locations	Total Trees	Impacted Trees			
		Alt 1	Alt 2	Alt 3	Alt 4
City of Los Angeles	77%	0%	9%	19%	16%
City of San Fernando	23%	0%	0%	85%	0%
<b>TOTAL</b>	<b>100%</b>	<b>0%</b>	<b>7%</b>	<b>34%</b>	<b>12%</b>

As shown in Table 1-3, Alternatives 2, 3, and 4 would impact a large percentage of medium and large trees. For large trees, the Median-Running BRT Alternative impacts 37 (48%), the Low-Floor LRT/Tram Alternative impacts 180 (47%), and the LRT Alternative impacts 75 (53%) of the street trees inventoried.

Table 1-3: Tree Inventory – Size

Size	Impacted Trees			
	Alt 1	Alt 2	Alt 3	Alt 4
Small	0	4	82	11
Medium	0	36	124	55
Large	0	37	180	75
<b>TOTAL</b>	<b>0</b>	<b>77</b>	<b>386</b>	<b>141</b>

# EXECUTIVE SUMMARY

It should be noted that Alternative 4 – LRT could impact trees within the 2.5 mile of the San Fernando Railroad Right-of-Way. In addition, both Alternatives 3 and 4 could have additional impacts to trees from Right-of-Way Acquisition. As mentioned earlier, no tree inventory was conducted for Real Estate Acquisition, in the Railroad Right-of-Way, or areas not accessible by field observation.

The No-Build, TSM and Curb-Running BRT Alternatives would have no impacts to trees.

# COMPANY/CONTACT INFORMATION

## Company/Contact Information

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LA Metro

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## APPENDIX

- A. TREE INVENTORY REPORT
- B. CE ALIGNMENT DESIGN DRAWINGS



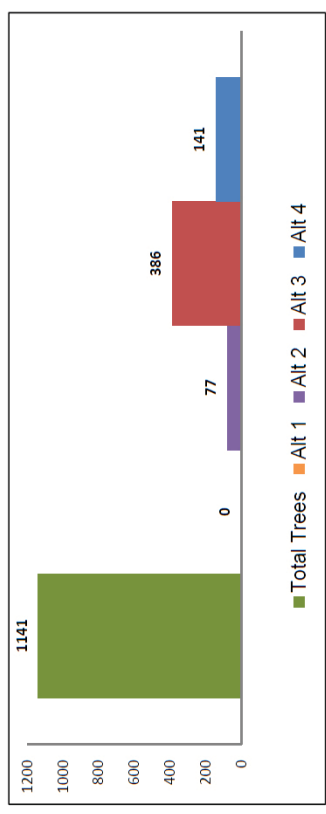




# ESFV Transit Corridor Project Tree Inventory



Tree Inventory - Counts



Locations	Total Trees				Impacted Trees			
	Alt 1	Alt 2	Alt 3	Alt 4	Alt 1	Alt 2	Alt 3	Alt 4
City of Los Angeles	0	0	167	141	0	0	0	0
City of San Fernando	77	0	219	0	77	0	386	141
<b>TOTAL</b>	<b>77</b>	<b>0</b>	<b>386</b>	<b>141</b>	<b>77</b>	<b>0</b>	<b>386</b>	<b>141</b>

Tree Inventory - Size

Small	Medium	Large
		

Figure 2-1: Van Nuys Boulevard - MOL to Hartland

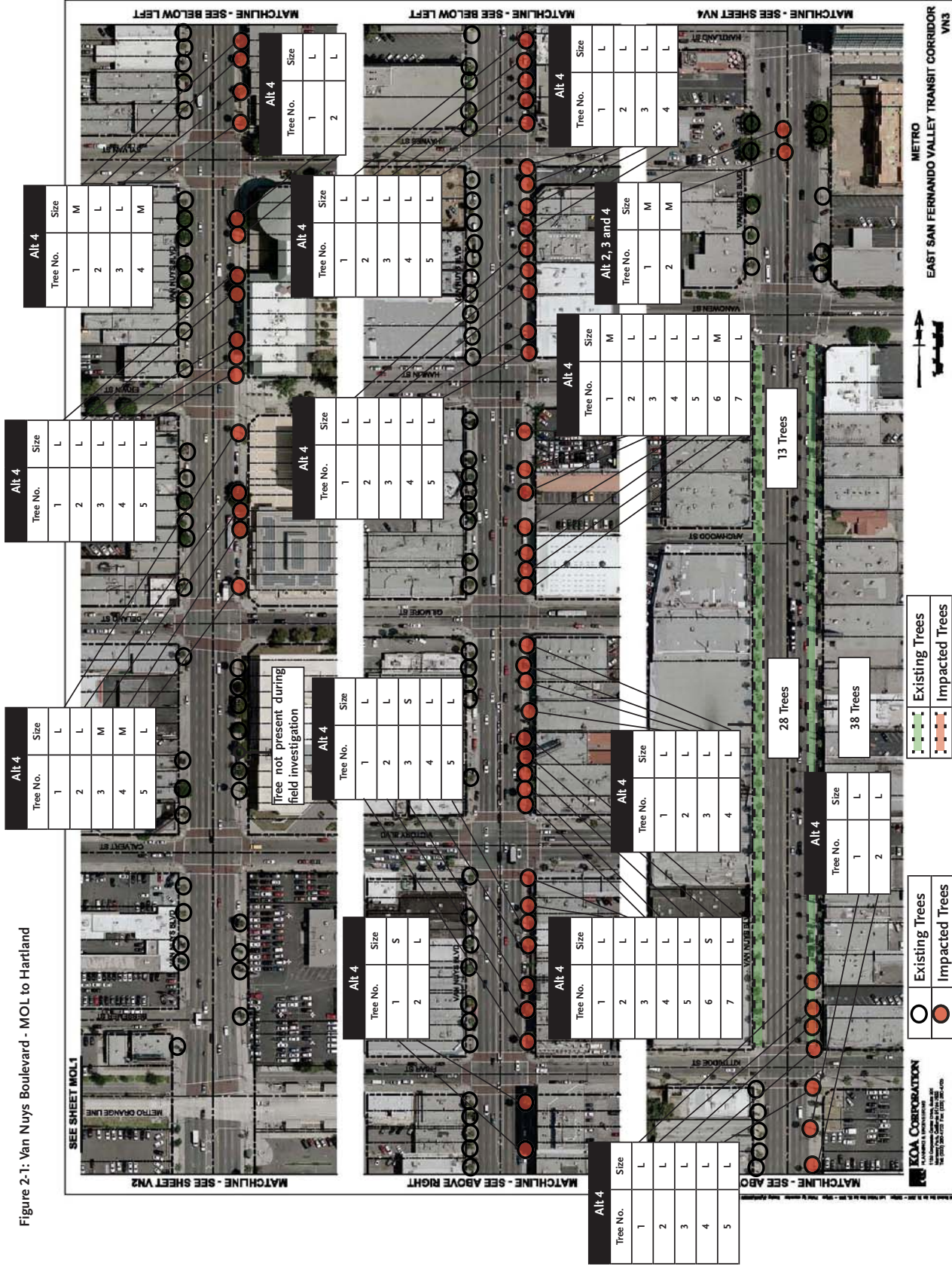
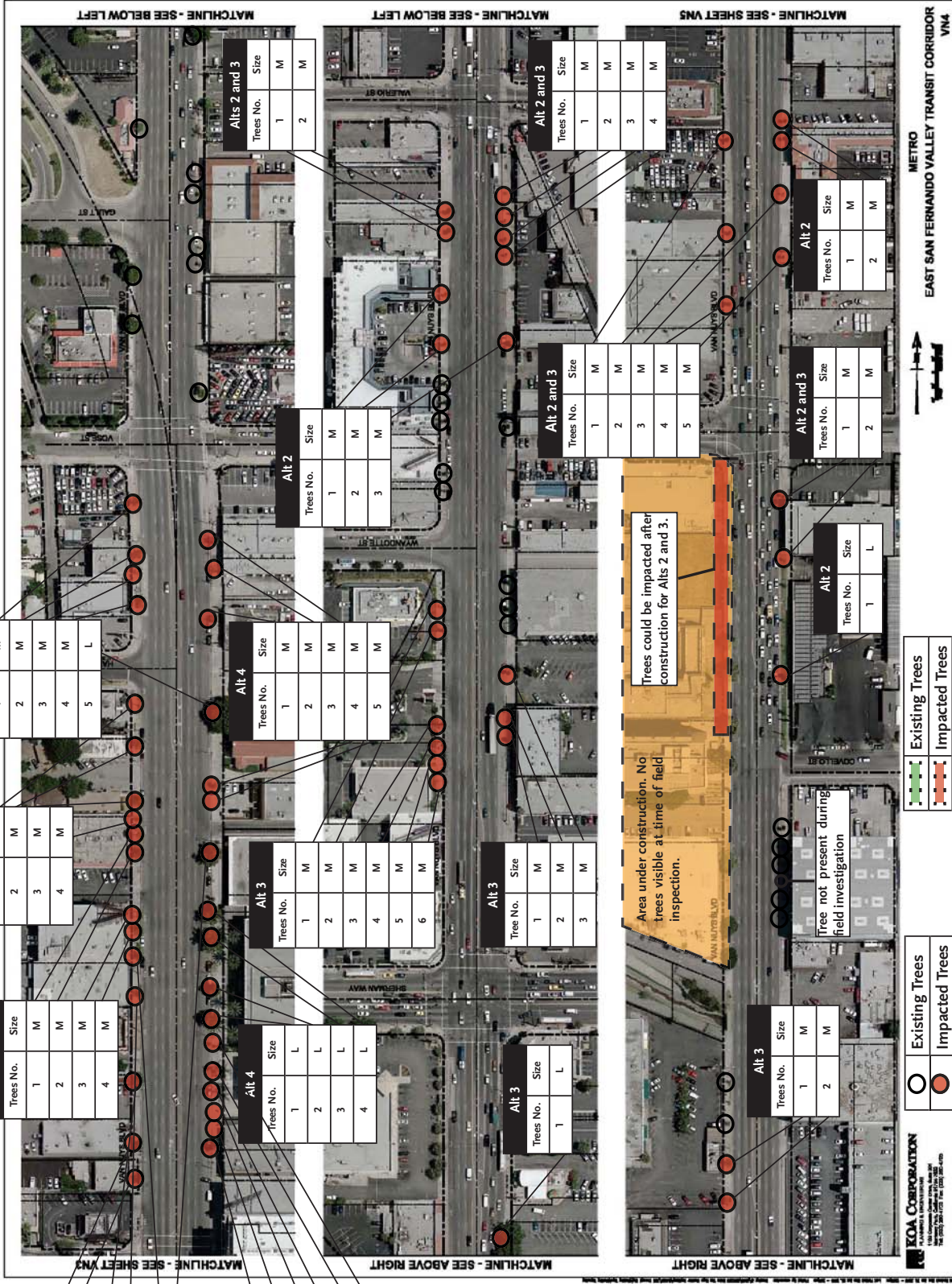


Figure 2-2: Van Nuys Boulevard - Hartland to Saticoy



Alt 4	
Trees No.	Size
1	M
2	M
3	M
4	M
5	M
6	M

Alt 4	
Trees No.	Size
1	M
2	M
3	M
4	M
5	M
6	M

Alt 4	
Trees No.	Size
1	M
2	M
3	M
4	M

Alt 4	
Trees No.	Size
1	M
2	M
3	M
4	M

Alt 3	
Trees No.	Size
1	M
2	M
3	M
4	M
5	M
6	M

Alt 3	
Trees No.	Size
1	M
2	M
3	M

Alt 4	
Trees No.	Size
1	M
2	M
3	M
4	M
5	M

Alt 2	
Trees No.	Size
1	M
2	M
3	M

Alt 2 and 3	
Trees No.	Size
1	M
2	M
3	M
4	M
5	M

Alt 2 and 3	
Trees No.	Size
1	M
2	M
3	M
4	M

Alt 3	
Trees No.	Size
1	M
2	M

Alt 2	
Trees No.	Size
1	L

Alt 2	
Trees No.	Size
1	M
2	M

Alt 2	
Trees No.	Size
1	M
2	M

Tree Count	
West	East
20	23

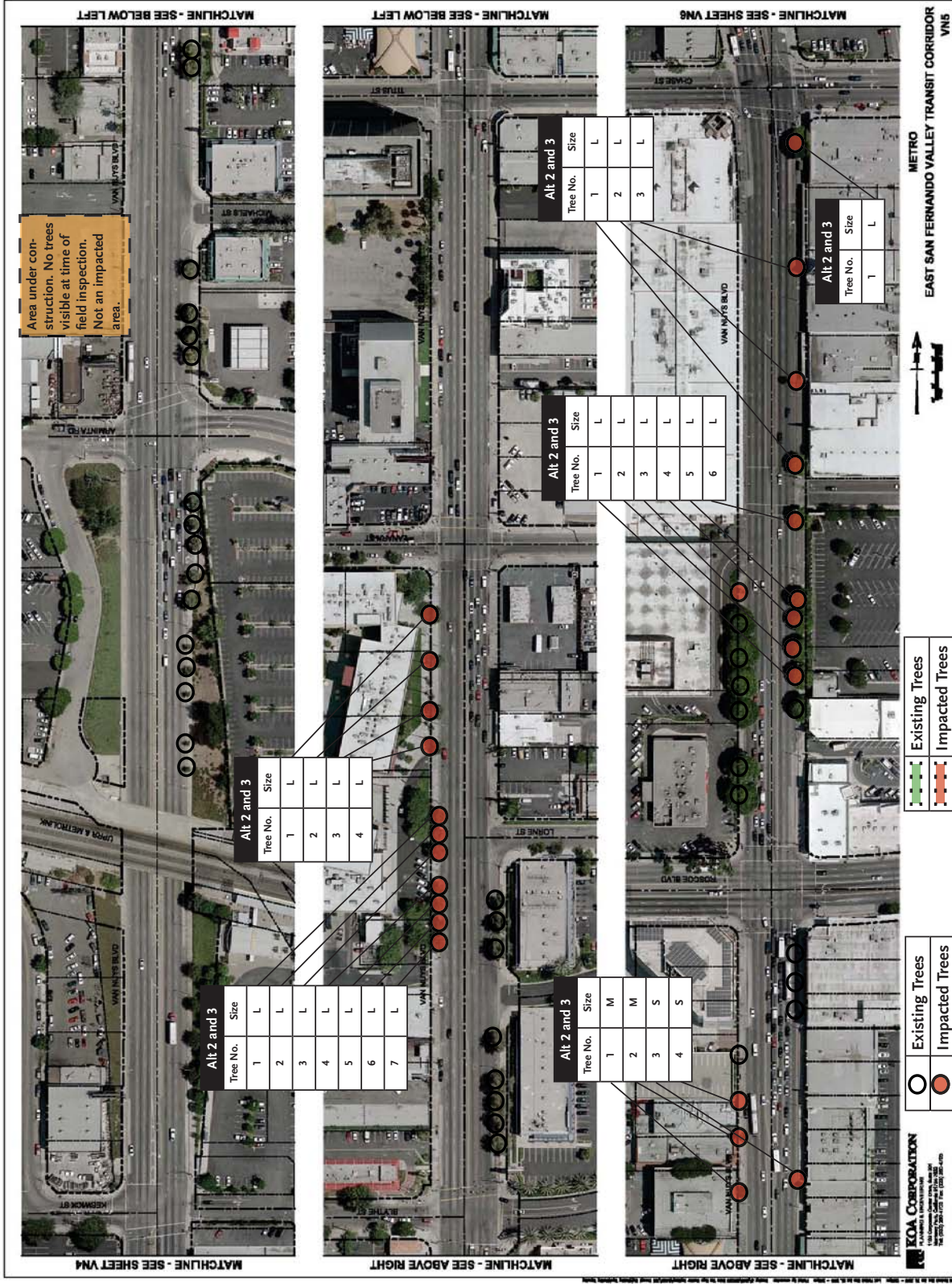
Tree Count	
West	East
15	13

Tree Count	
West	East
7	12

Total Tree Count	
Total	
90	

Impacted Tree Count		
Alt 2	Alt 3	Alt 4
19	32	34

Figure 2-3: Van Nuys Boulevard - Keswick to Chase



Area under construction. No trees visible at time of field inspection. Not an impacted area.

Tree Count	
West	0
East	16

Tree Count	
West	11
East	8

Tree Count	
West	11
East	14

Total Tree Count	
Total	60

Impacted Tree Count	
Alt 2	25
Alt 3	25
Alt 4	0

Alt 2 and 3

Tree No.	Size
1	L
2	L
3	L
4	L
5	L
6	L
7	L

Alt 2 and 3

Tree No.	Size
1	M
2	M
3	S
4	S

Alt 2 and 3

Tree No.	Size
1	L
2	L
3	L
4	L
5	L
6	L

Alt 2 and 3

Tree No.	Size
1	L
2	L
3	L

Alt 2 and 3

Tree No.	Size
1	L

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Legend:  
 Existing Trees: Green circle  
 Impacted Trees: Red circle

METRO  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 VN6

North Arrow

MATCHLINE - SEE SHEET VMA  
 MATCHLINE - SEE SHEET VMB  
 MATCHLINE - SEE SHEET VMC  
 MATCHLINE - SEE SHEET VMD  
 MATCHLINE - SEE SHEET VME  
 MATCHLINE - SEE SHEET VMF  
 MATCHLINE - SEE SHEET VNG

Figure 2-4: Van Nuys Boulevard - Chase to Nordhoff



Figure 2-5: Van Nuys Boulevard - Tupper to Canterbury



Figure 2-6: Van Nuys Boulevard - Canterbury to Laurel Canyon

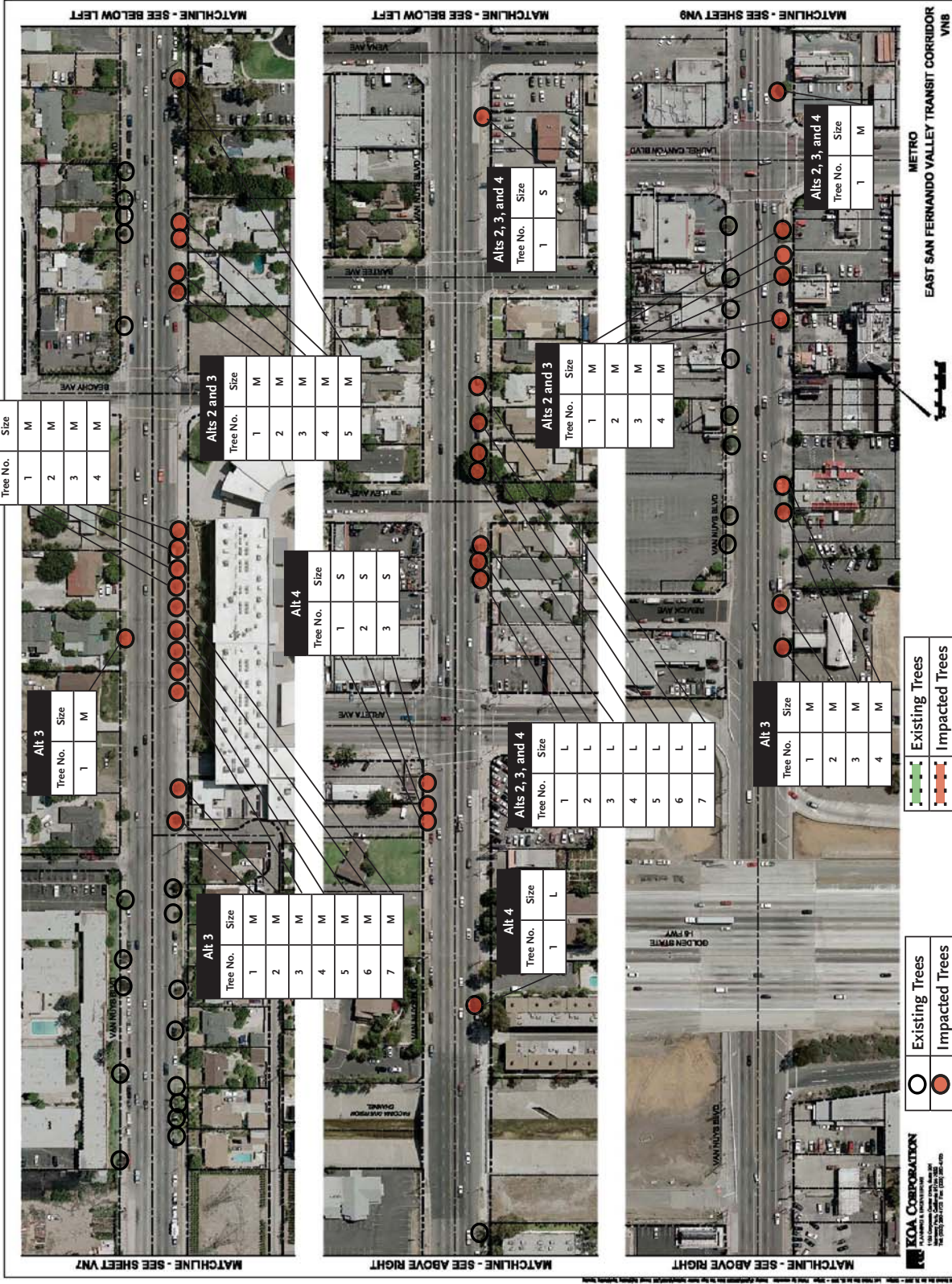
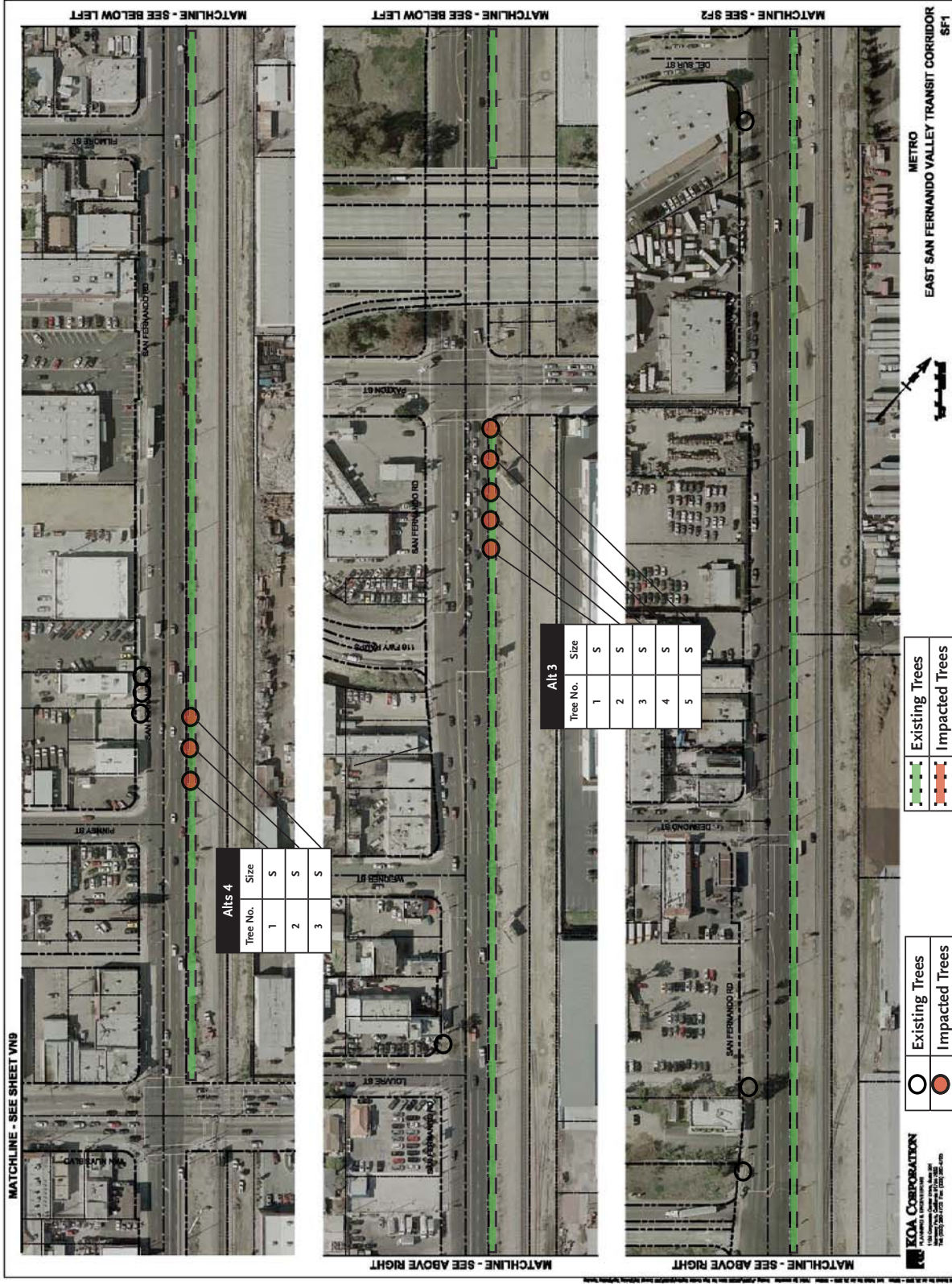






Figure 2-8: San Fernando - Van Nuys to Del Sur



Tree Count	
West	3

Tree Count	
West	1
East - Van Nuys to 118	48

Tree Count	
West	3

Total Tree Count	
Total	55

Impacted Tree Count	
Alt 2	0
Alt 3	5
Alt 4	3

Figure 2-9: San Fernando/Truman - Pacoima Wash to Workman

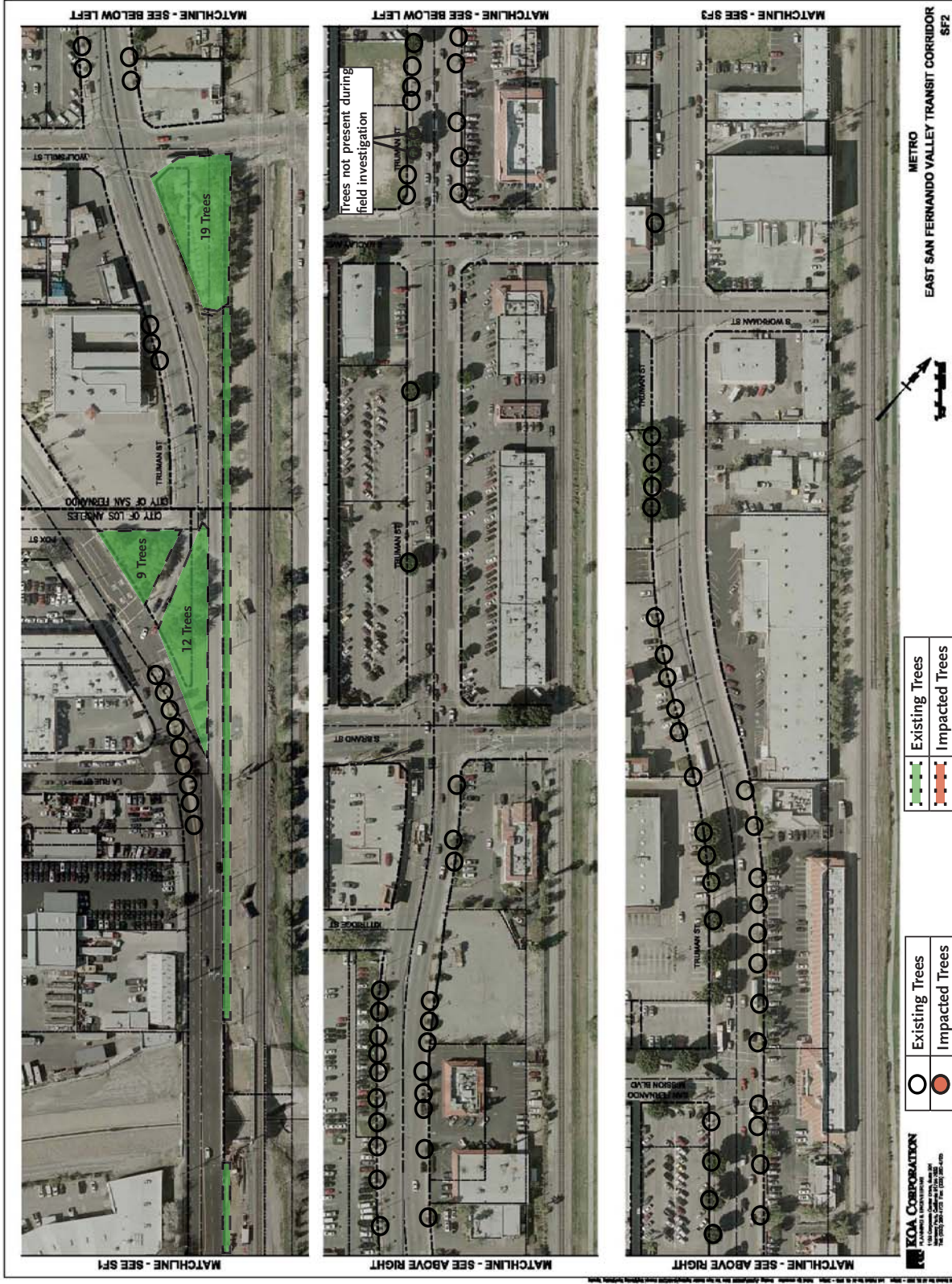
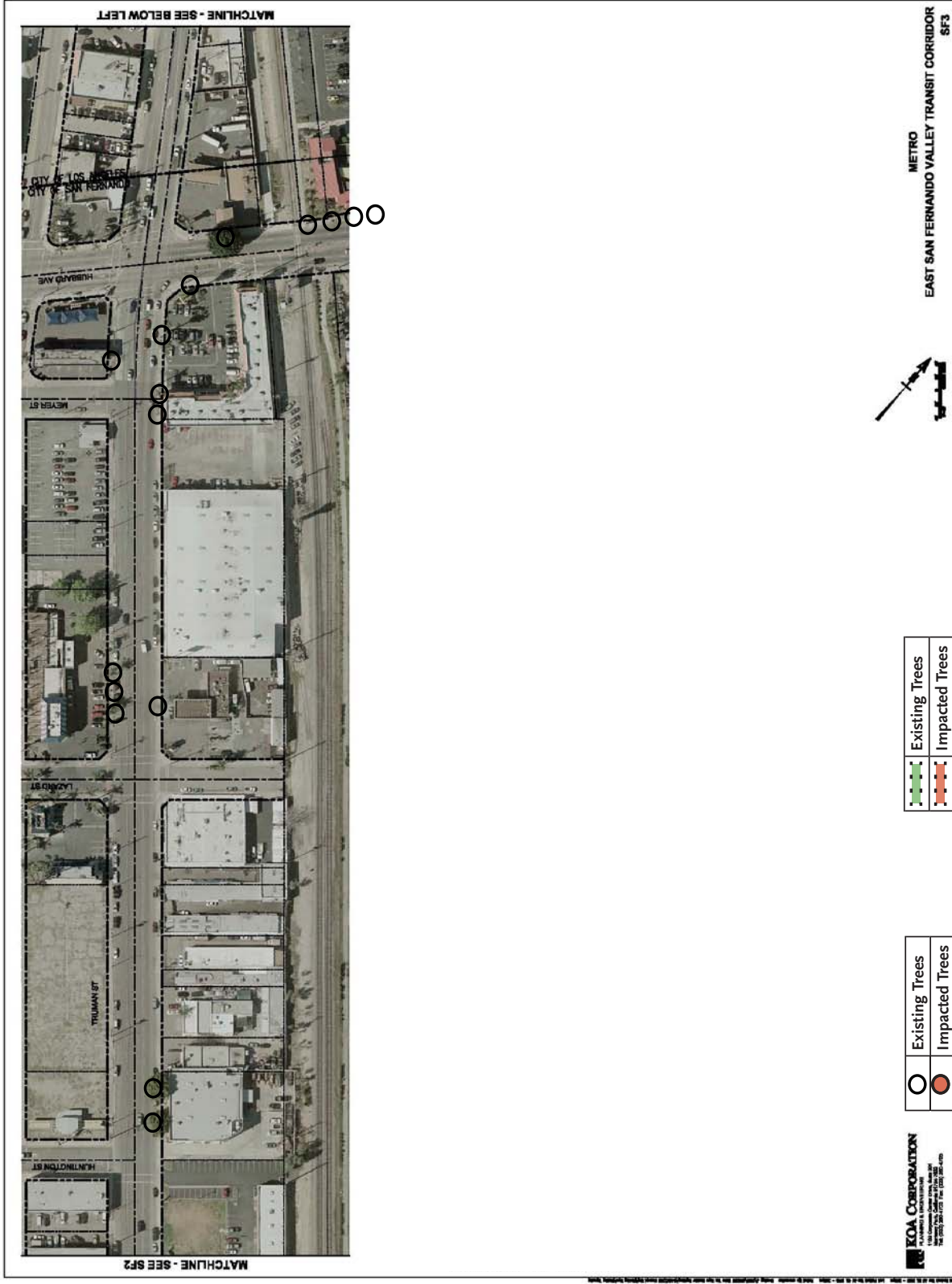


Figure 2-10: Truman/Railroad ROW - Huntington to Bleeker



Tree Count	
North/West	9
South/East	7

Total Tree Count	
Total	16

Impacted Tree Count	
Alt 2	0
Alt 3	0
Alt 4	0

Figure 2-11: San Fernando Road - Fox to Maclay

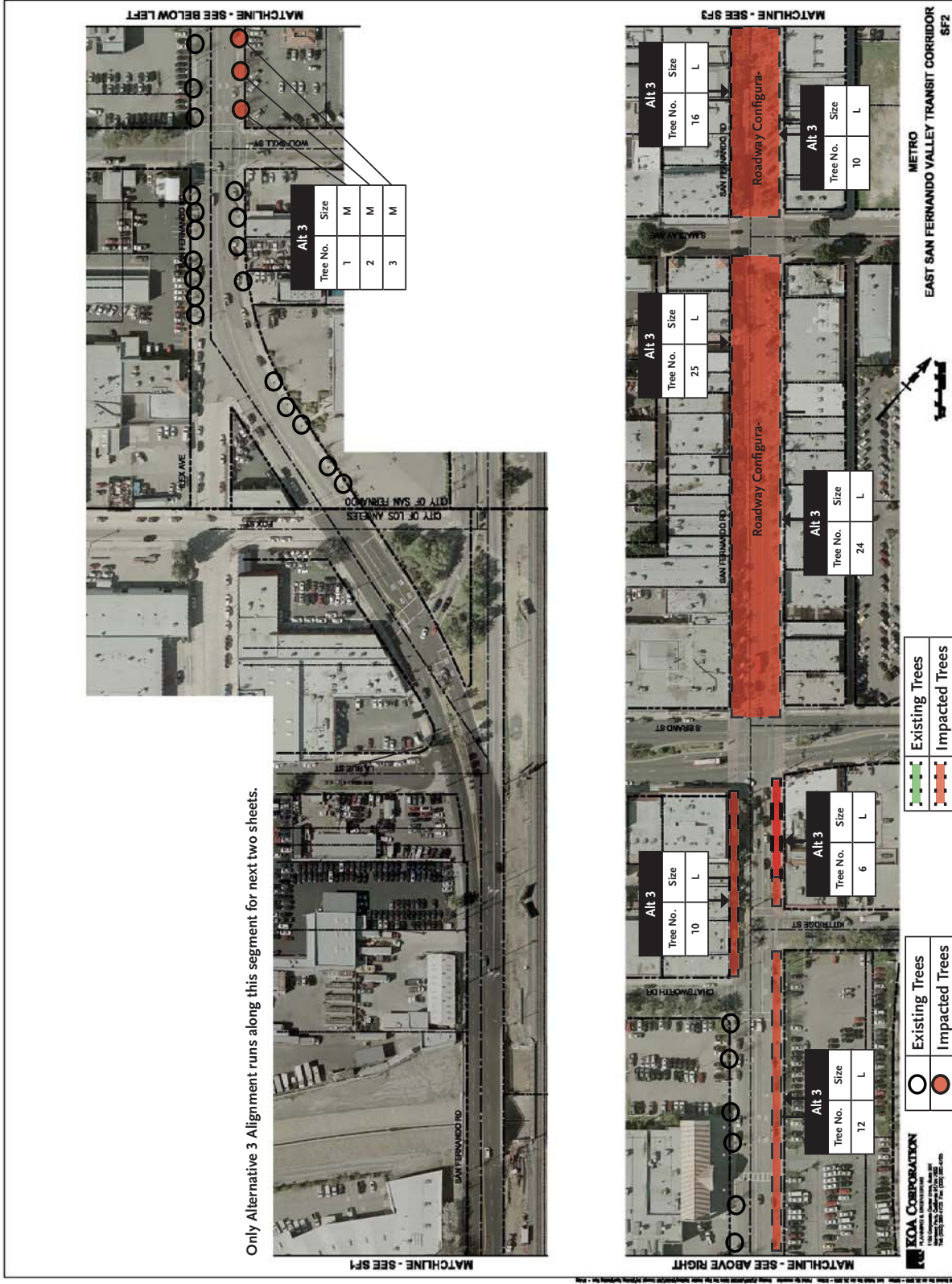
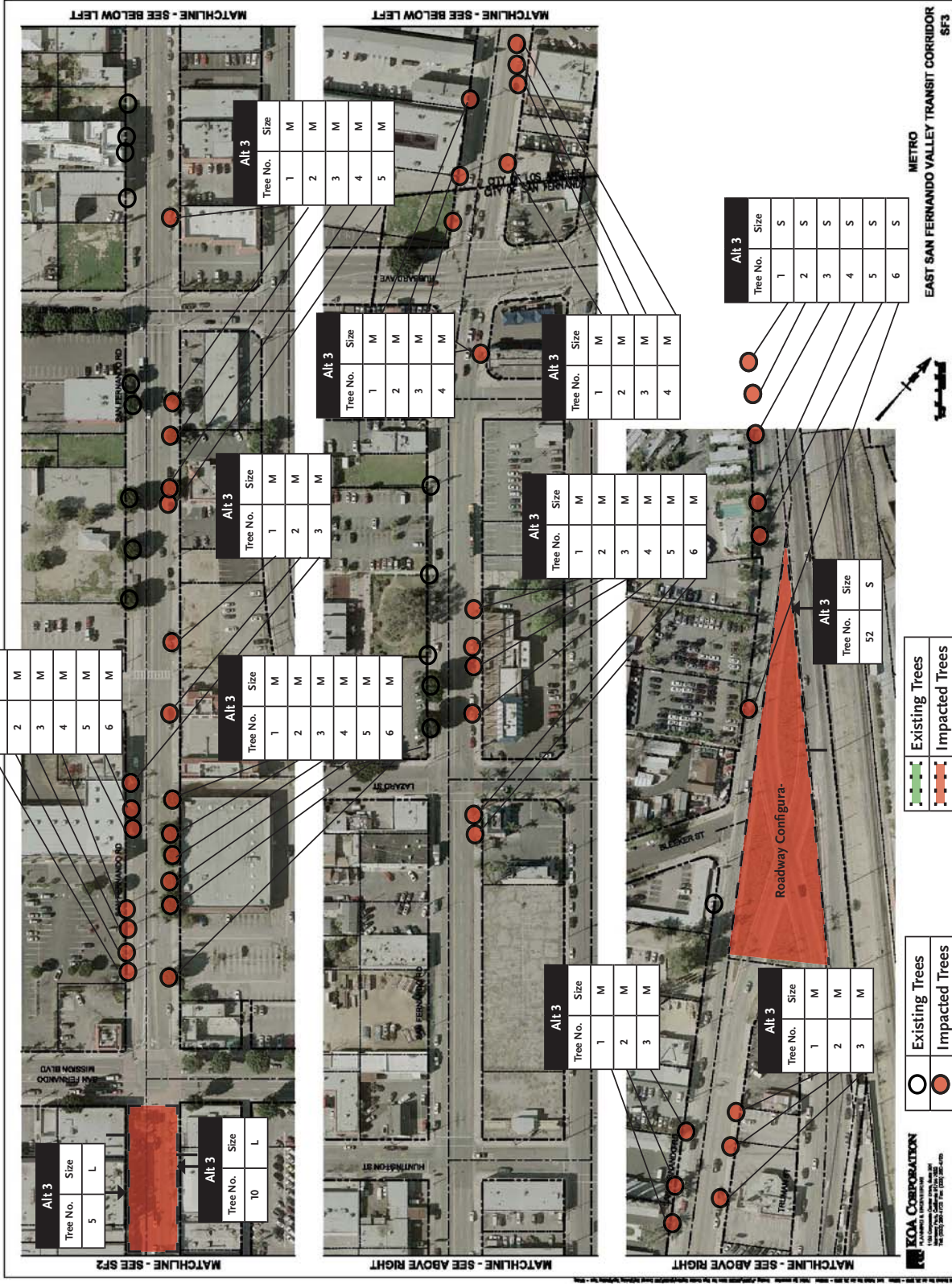


Figure 2-12: San Fernando - Mission to Blecker





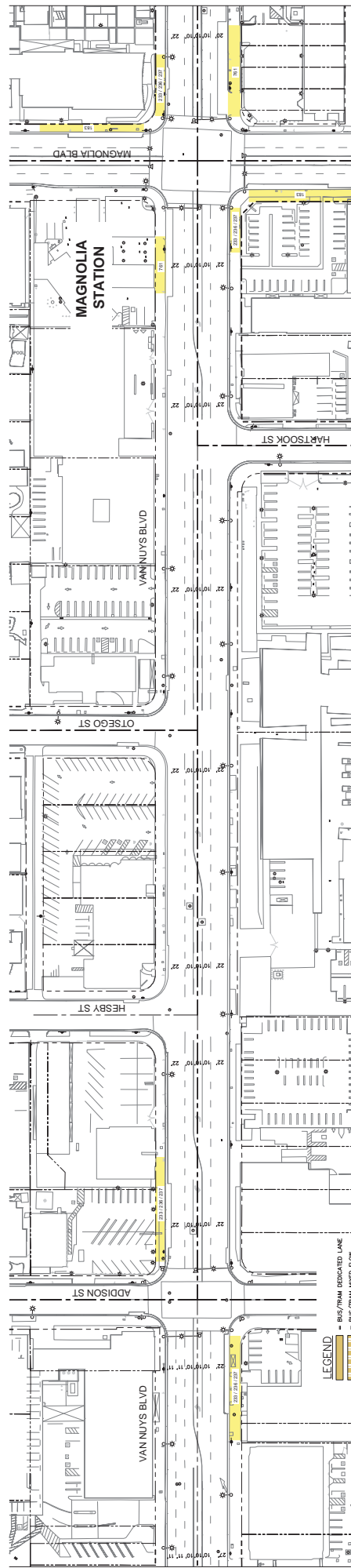
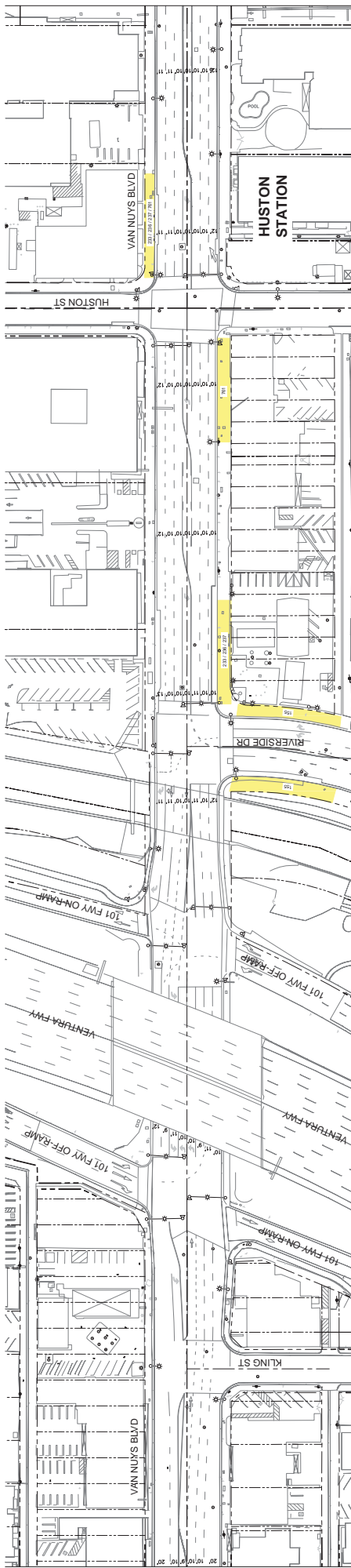
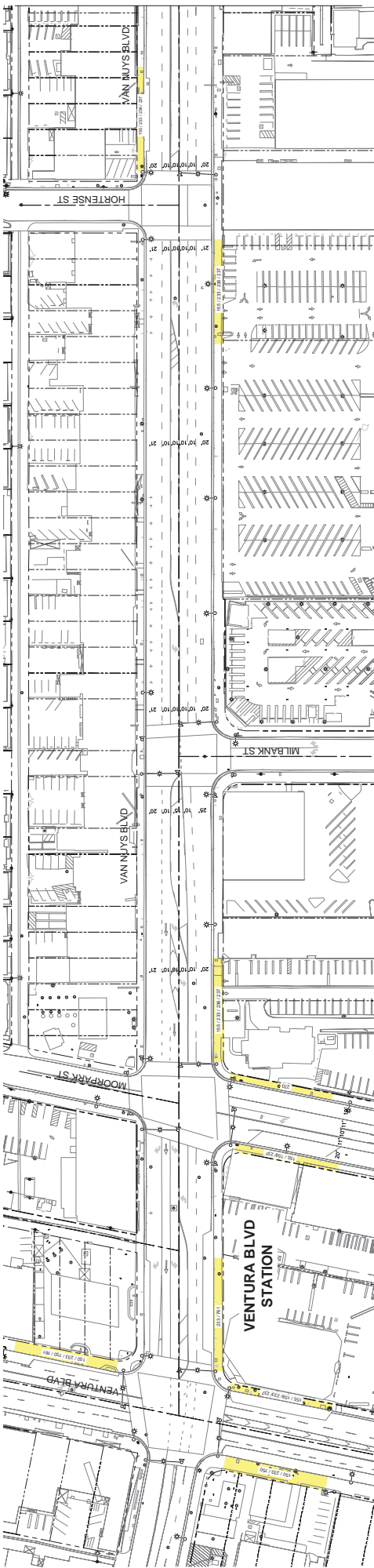
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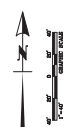
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METRO  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT-1-1

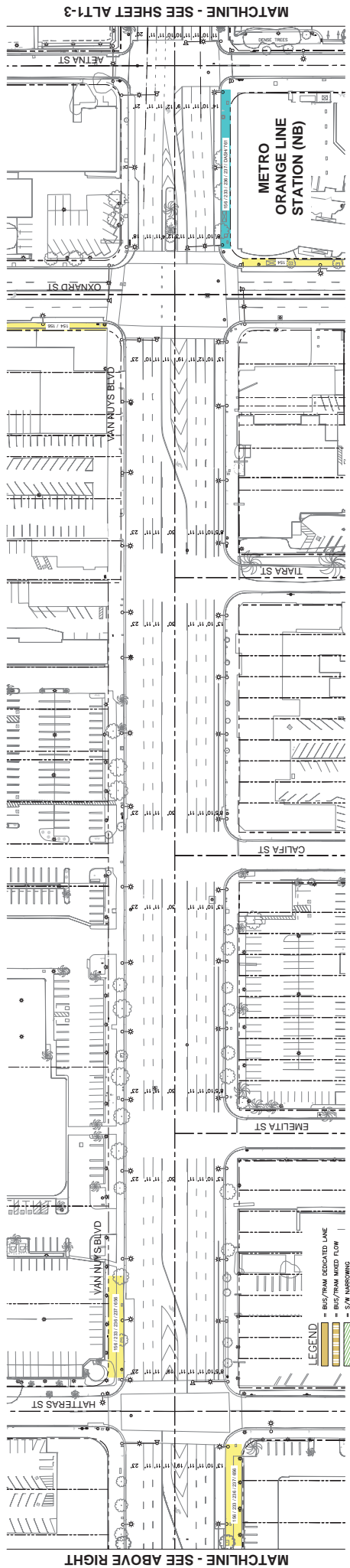
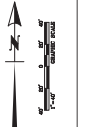


# ALTERNATIVE 1 - BRT CURB RUNNING

- LEGEND**
- BRT/TRANSIT DEDICATED LANE
  - BUS/TRANSIT DEDICATED LANE
  - PROPOSED BIKEWAY
  - PROPOSED BIKEWAY
  - PROPOSED BIKEWAY
  - PROPOSED BIKEWAY
  - EXISTING STOP
  - PROPOSED STOP
  - EXISTING STOP
  - PROPOSED STOP
  - EXISTING STOP
  - PROPOSED STOP
  - EXISTING STOP
  - PROPOSED STOP
  - EXISTING STOP
  - PROPOSED STOP

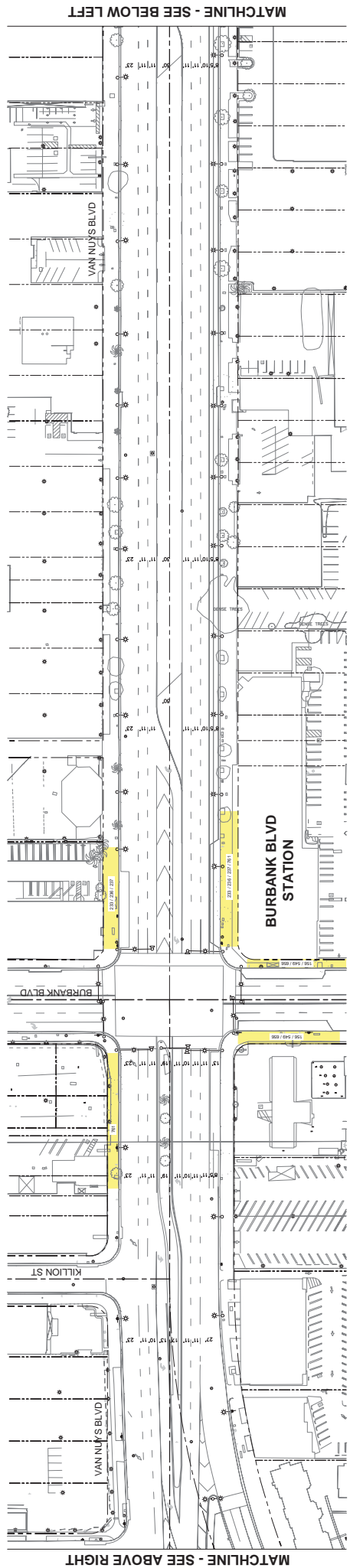
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PLANNING & ENGINEERING  
1100 Corporate Center Drive, Suite 201  
Tustin, CA 92680  
Tel: (714) 260-1110 Fax: (714) 260-0700

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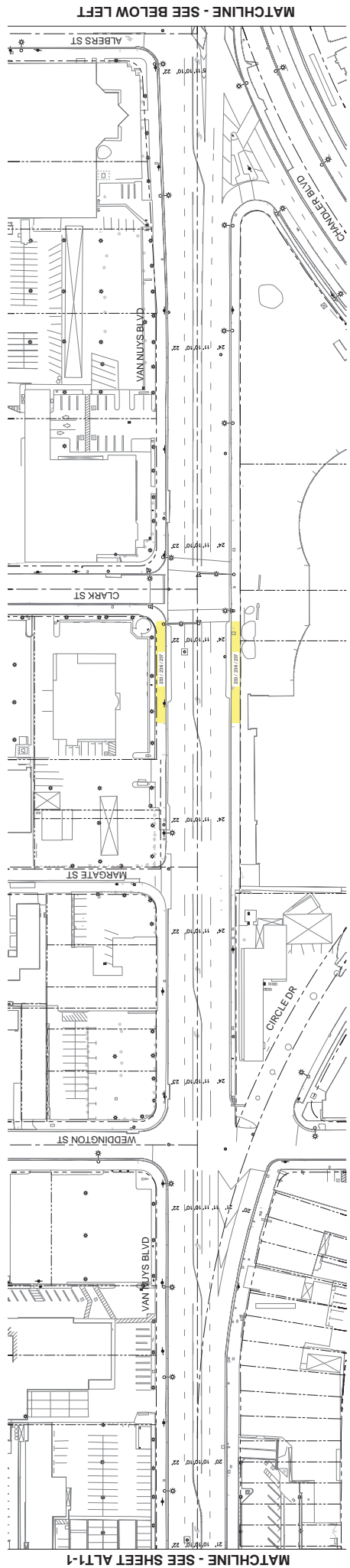
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MATCHLINE - SEE SHEET ALT1-1

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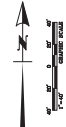


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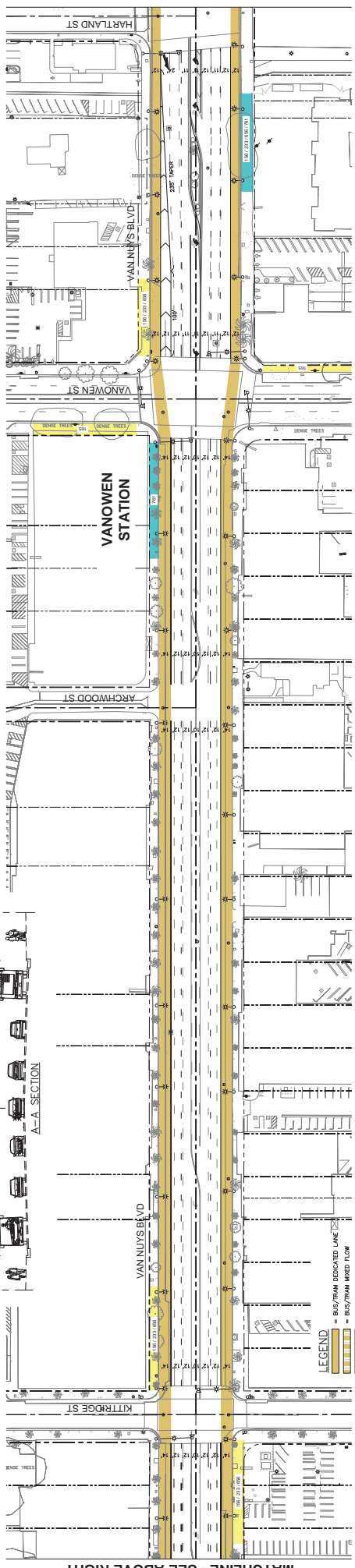
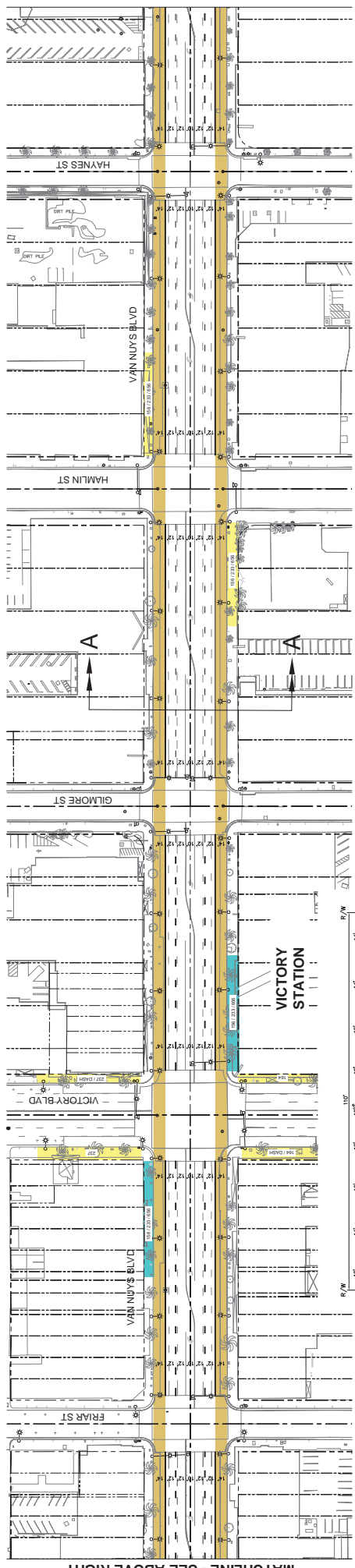
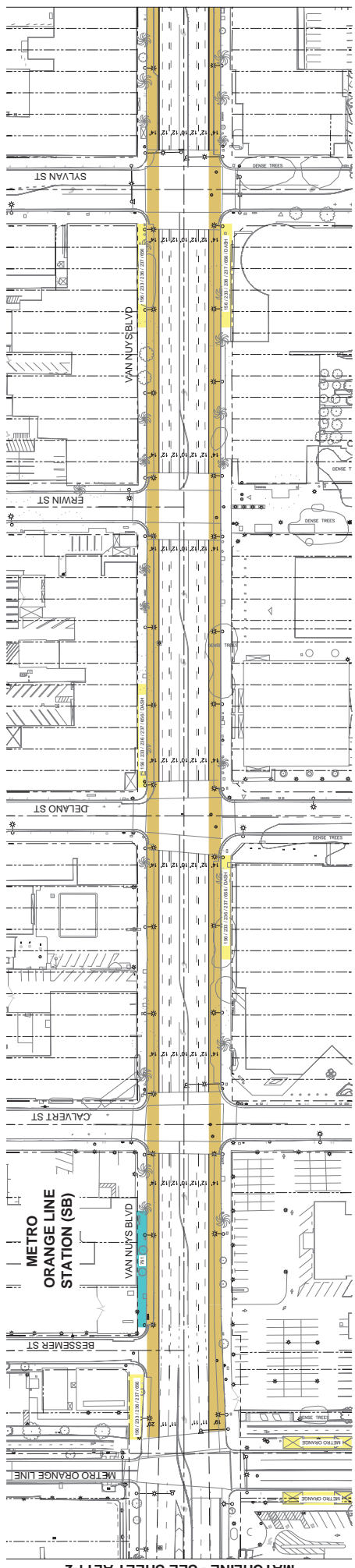
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METRO  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT1-3



# ALTERNATIVE 1 - BRT CURB RUNNING

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**LEGEND**

- BRT FROM MEDIAN FLOW
- BRT FROM MEDIAN FLOW
- PROPOSED STATION
- REMOVED STOP
- REMOVED ON STREET PARKING

MATCHLINE - SEE SHEET ALT1-2

MATCHLINE - SEE ABOVE RIGHT

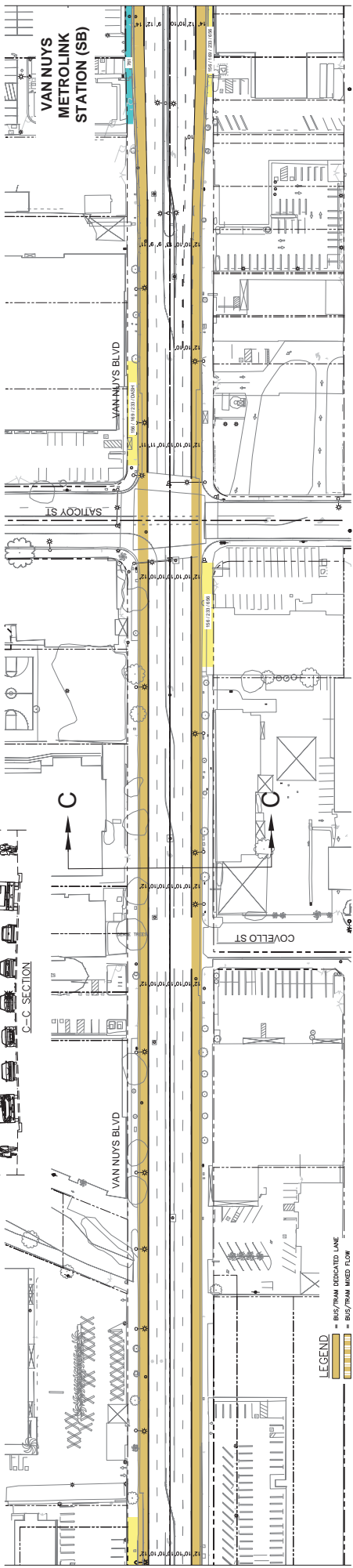
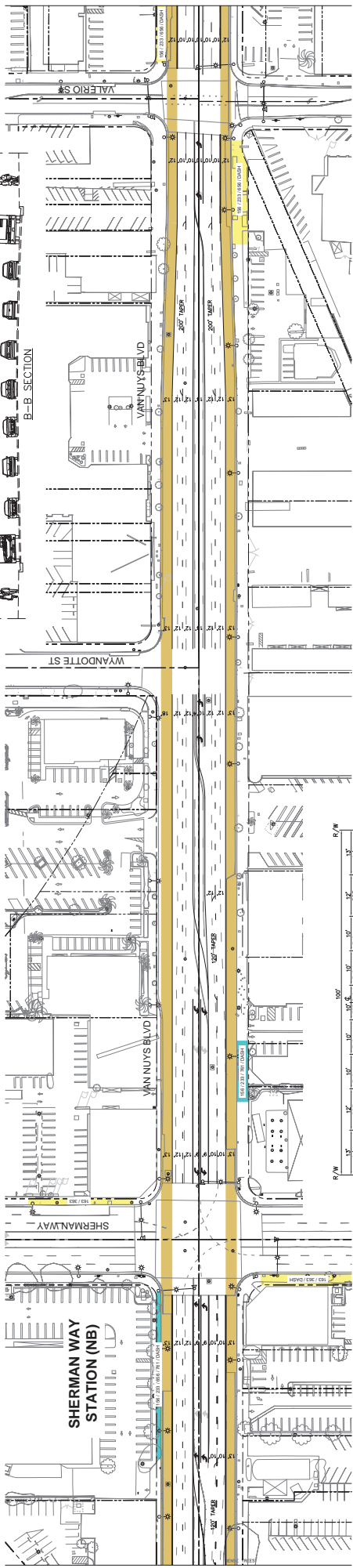
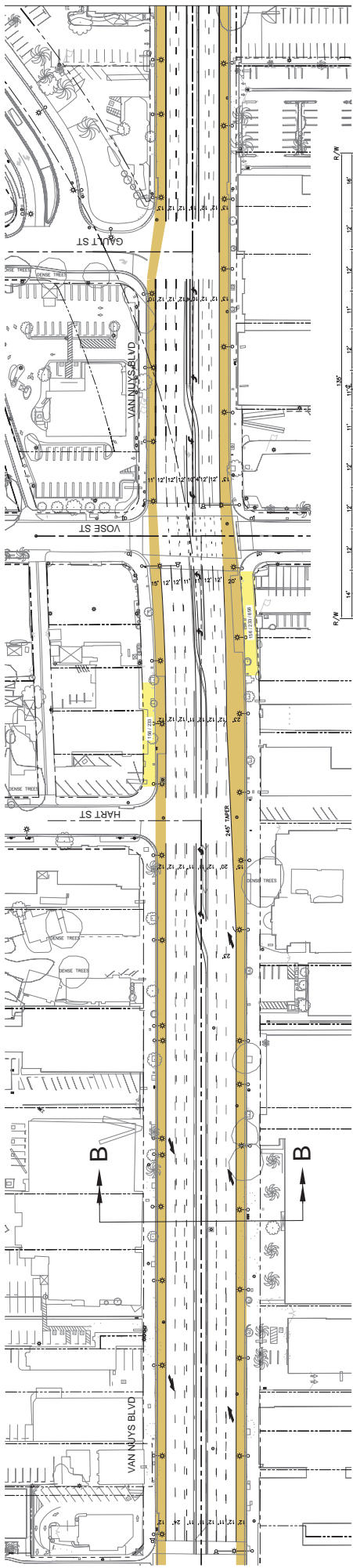
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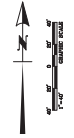
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- LEGEND**
- BRT/TRANSIT DESIGNATED LANE
  - BRT/TRANSIT DESIGNATED LANE
  - 5/8" UNIMASKED
  - PROPOSED/ASPHALTED STATION
  - REMOVED STOP
  - REMOVED ON STREET PARKING

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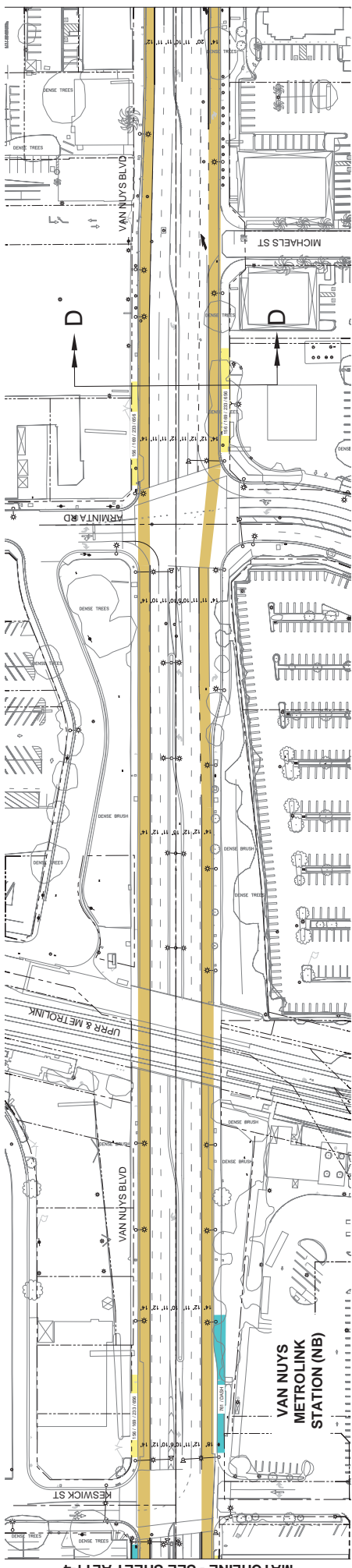


METRO  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 ALT-1-4

# ALTERNATIVE 1 - BRT CURB RUNNING

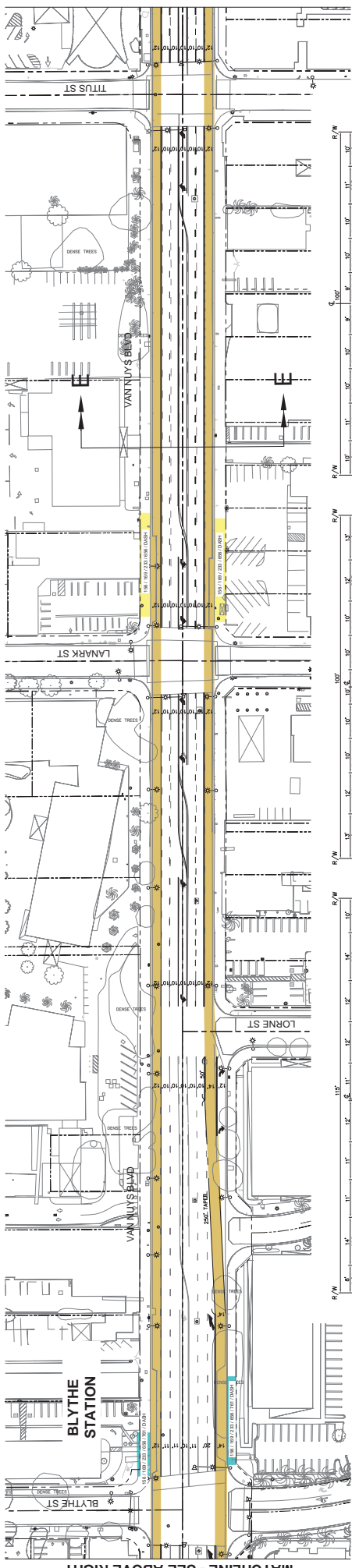
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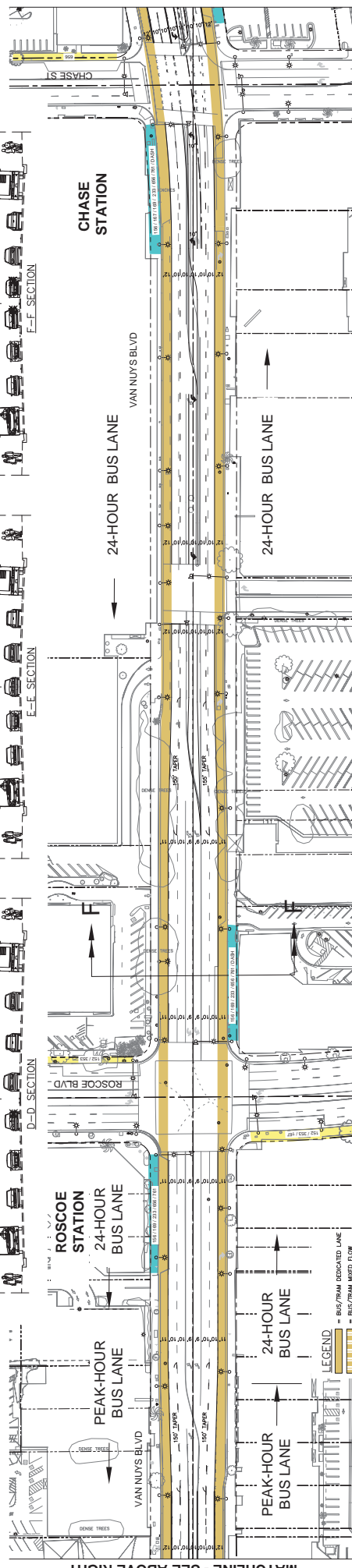
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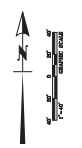
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MATCHLINE - SEE SHEET ALT1-6



MATCHLINE - SEE ABOVE RIGHT

**METRO**  
**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR**  
**ALT1-5**



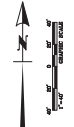
# ALTERNATIVE 1 - BRT CURB RUNNING

**LEGEND**

- BUS/TRANSIT INDICATED LANE
- BUS/TRANSIT MEDIAN FLOW
- BIKING STOP
- PROPOSED STOP
- REMOVED STOP
- REMOVED ON STREET PARKING

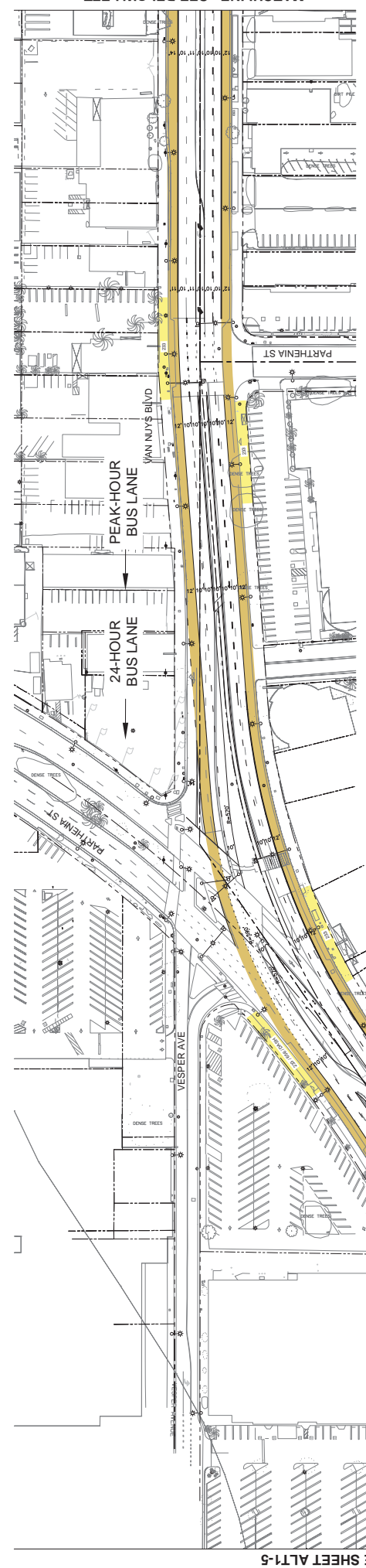
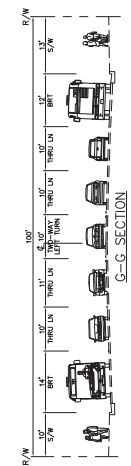
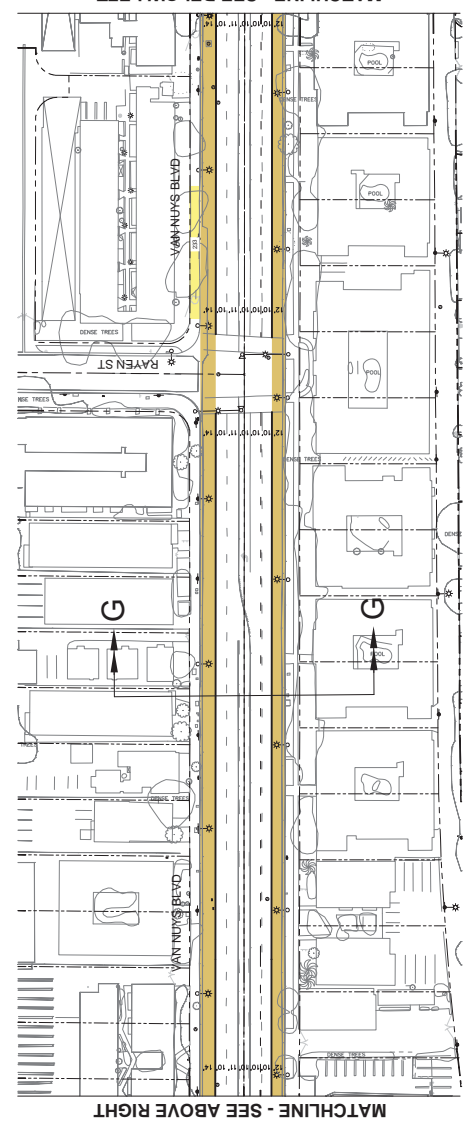
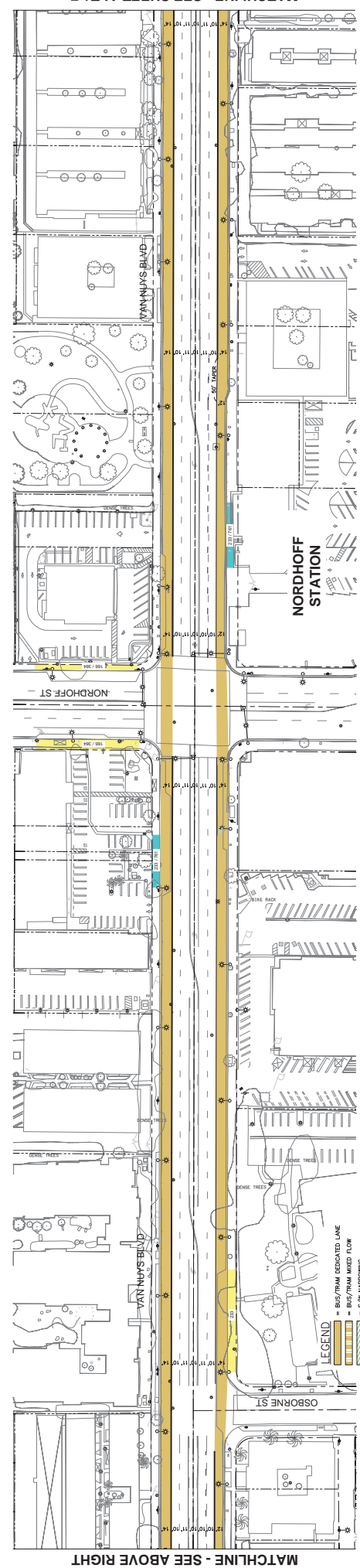
**KOA CORPORATION**  
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 Los Angeles, CA 90007  
 Tel: (323) 290-1170 Fax: (323) 290-0708

DATE: 11/14/2014 11:52 AM  
 PROJECT: EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR (EFT) - ALTERNATIVE 1 - BRT CURB RUNNING  
 SHEET: ALT1-5

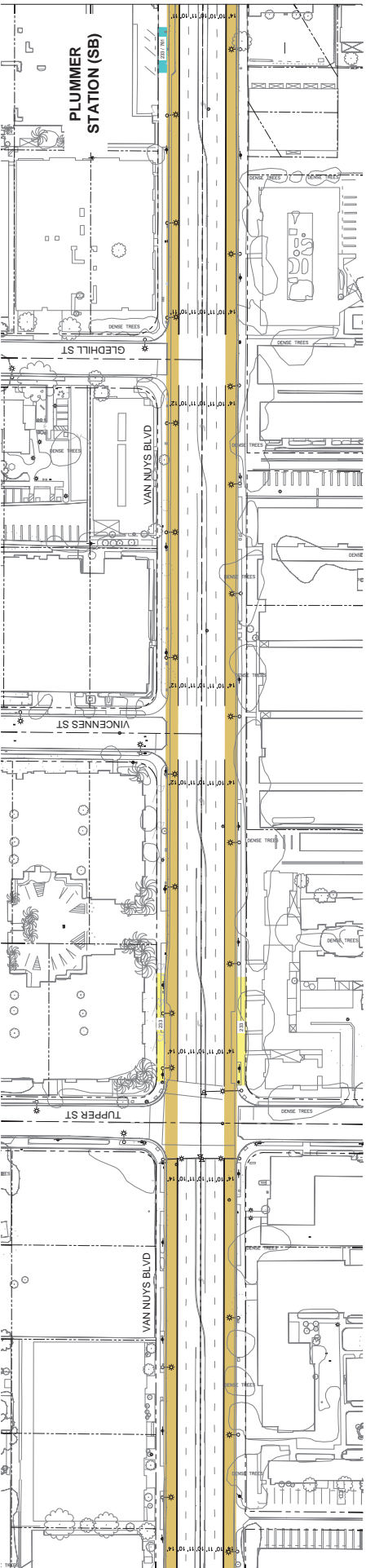


# ALTERNATIVE 1 - BRT CURB RUNNING

- LEGEND**
- BUS/TRANSIT DEPOSITED LANE
  - BUS/TRANSIT PICKUP LANE
  - 5' W/ WALKWAY
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP
  - REMOVED ON STREET PARKING

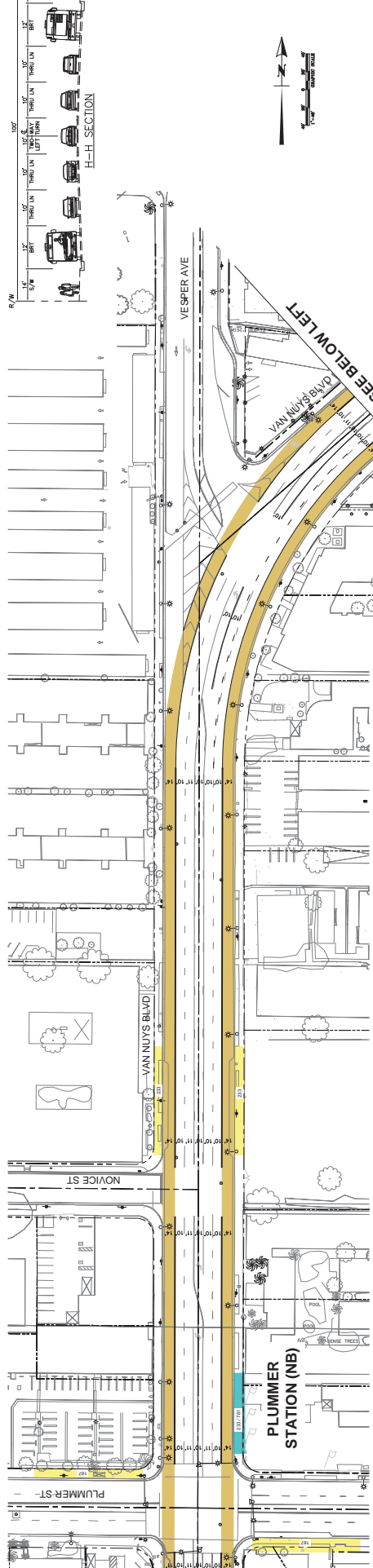


MATCHLINE - SEE SHEET ALT1-6



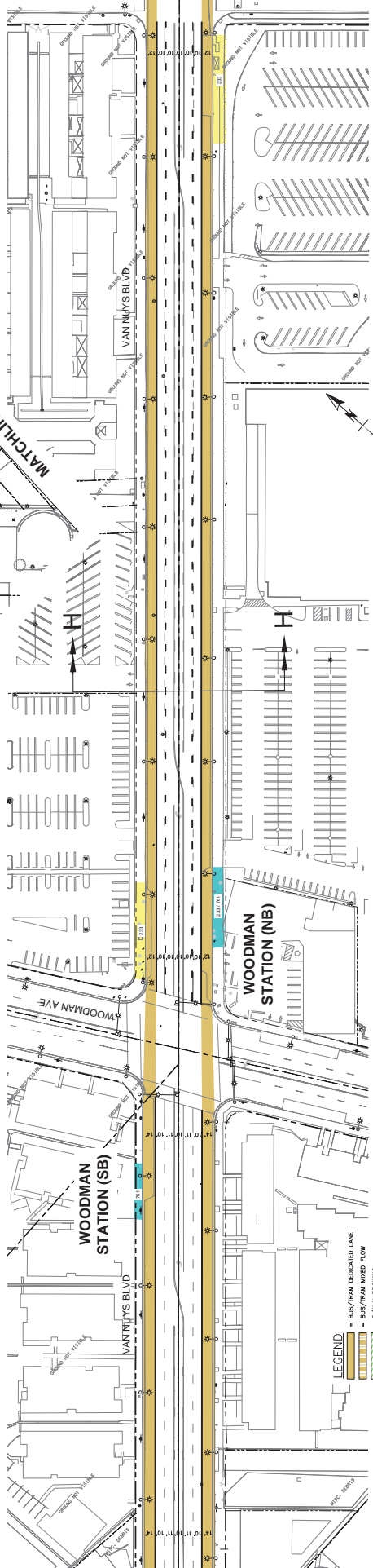
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT



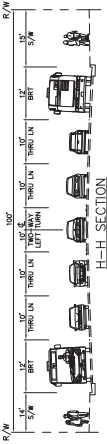
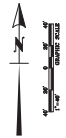
MATCHLINE - SEE SHEET ALT1-8

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- LEGEND**
- BRT/TRANSIT DEDICATED LANE
  - BRT/TRANSIT BIKEWAY
  - BIKEWAY
  - EXISTING STOP
  - PROPOSED STOP
  - EXISTING STOP
  - PROPOSED STOP
  - EXISTING STOP
  - PROPOSED STOP
  - EXISTING STOP
  - PROPOSED STOP

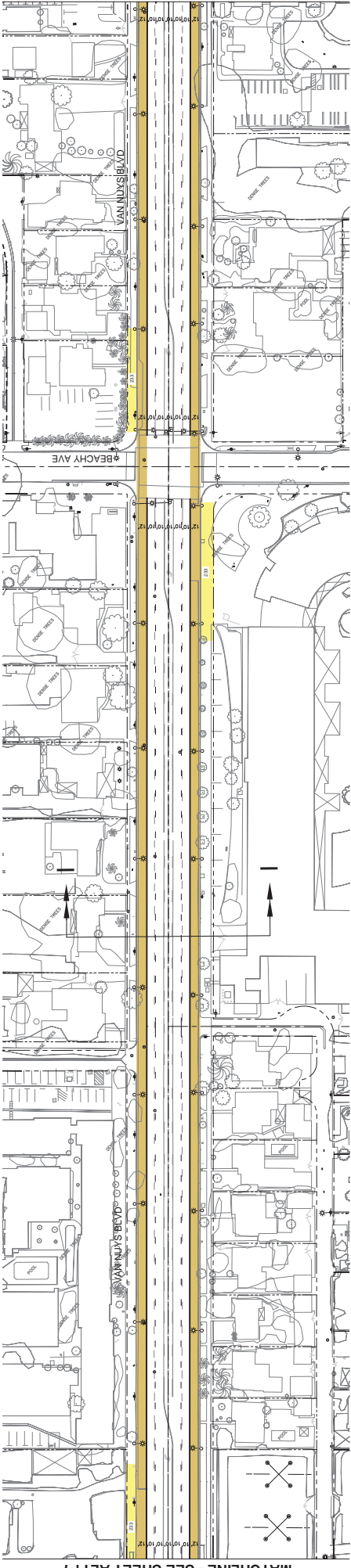
# ALTERNATIVE 1 - BRT CURB RUNNING

METRO  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 ALT1-7



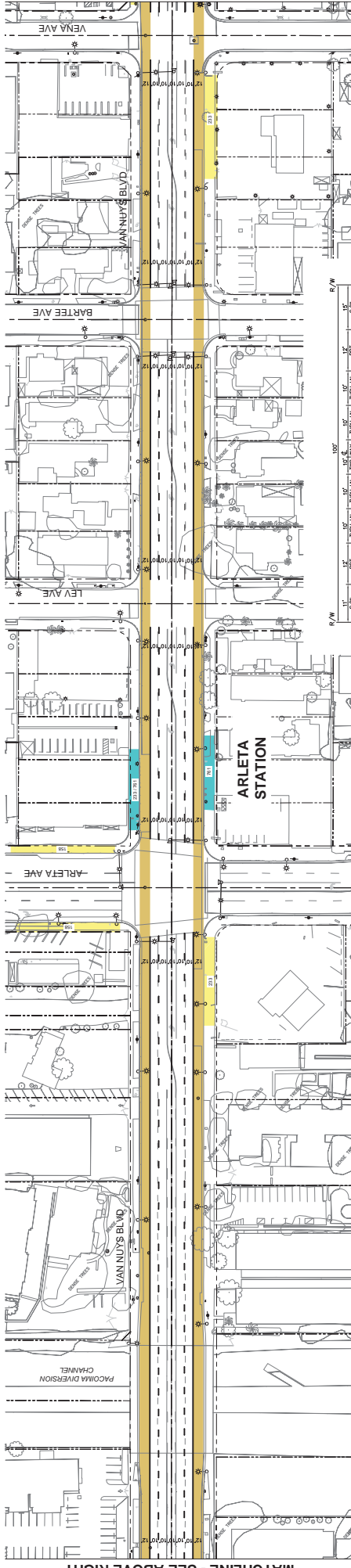
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MATCHLINE - SEE BELOW LEFT



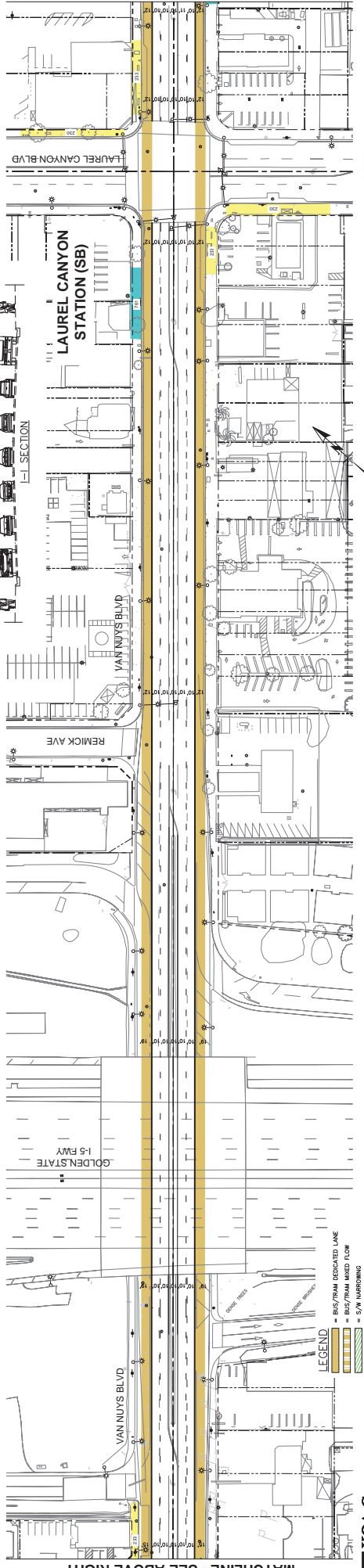
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MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET ALT-1-9



MATCHLINE - SEE ABOVE RIGHT



METRO

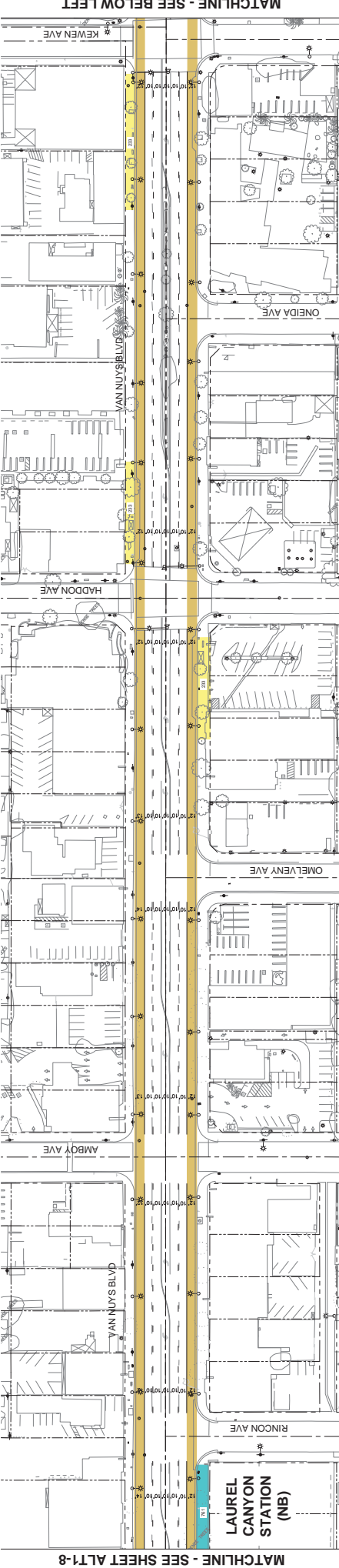
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT-1-8

# ALTERNATIVE 1 - BRT CURB RUNNING

- LEGEND**
- BUS/TRANSIT RECORDED LANE
  - BIKEWAY
  - EXISTING STOP
  - PROPOSED/UPGRADED STATION
  - EXISTING STOP
  - REMOVED STOP
  - REMOVED ON STREET PARKING

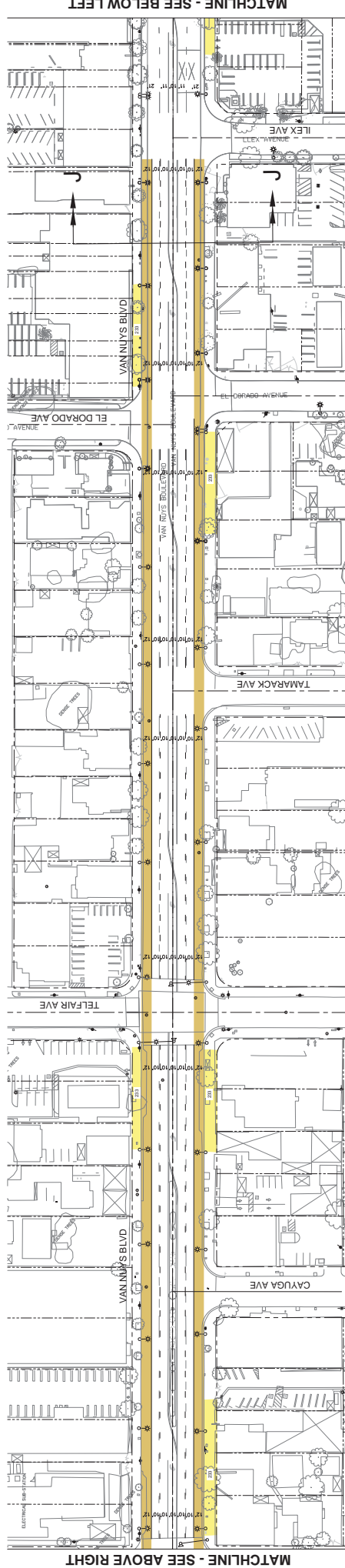
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 1100 Corporate Center Drive, Suite 201  
 Los Angeles, CA 90007  
 Tel: (323) 290-1170 Fax: (323) 290-0708

Small text at the bottom right corner, likely a revision or date stamp.



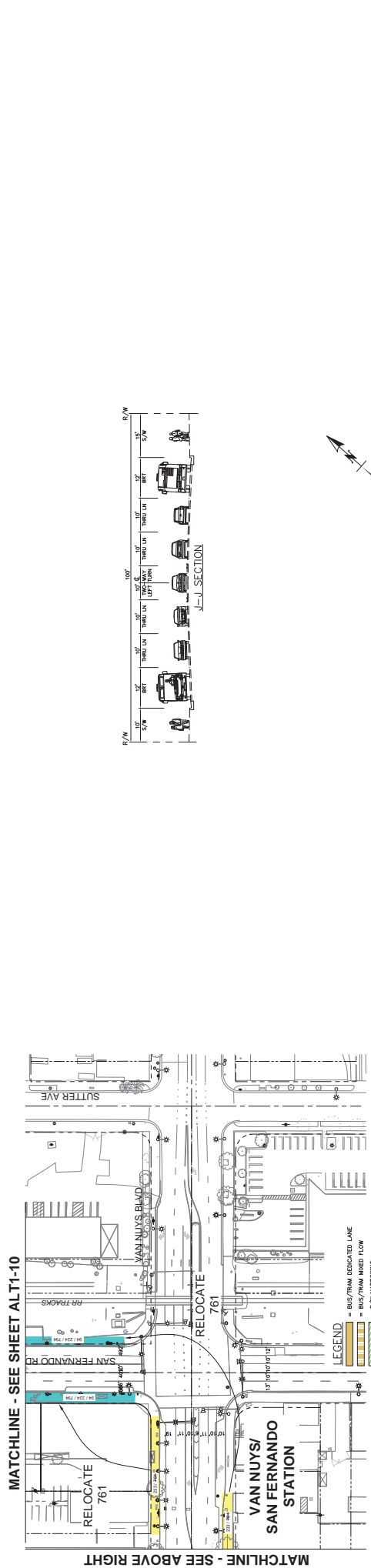
MATCHLINE - SEE SHEET ALT1-8

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE ABOVE RIGHT

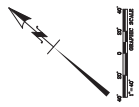
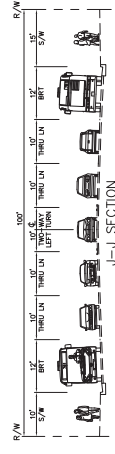
MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE SHEET ALT1-10

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE BELOW LEFT



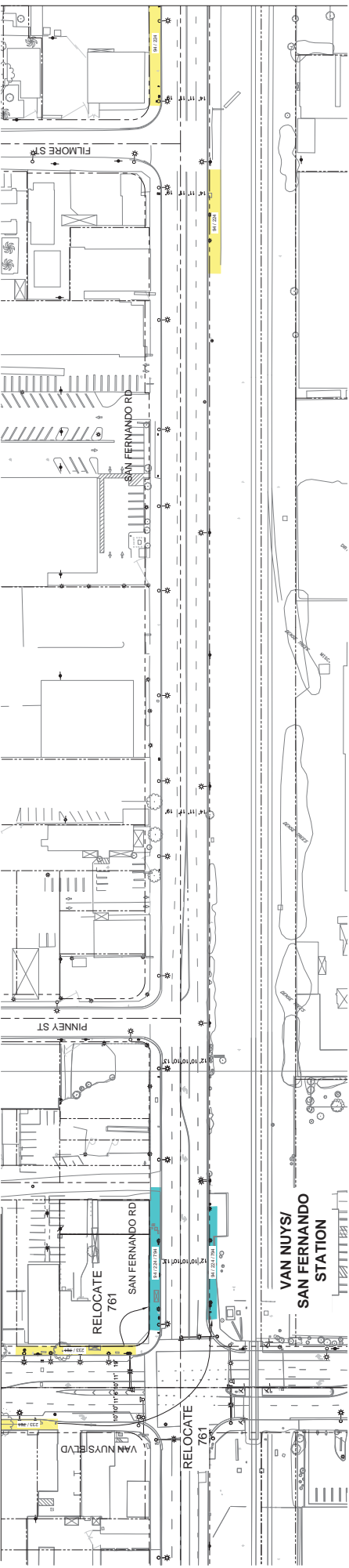
- LEGEND**
- BUS/TRANSIT DEDICATED LANE
  - BUS/TRANSIT MIXED FLOW
  - STREET LIGHT
  - EXISTING STOP
  - PROPOSED STOP
  - PROPOSED STOP
  - REMOVED STOP
  - REMOVED ON STREET PARKING

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 San Francisco, CA 94103  
 Tel: (415) 299-1110 Fax: (415) 299-0768

# ALTERNATIVE 1 - BRT CURB RUNNING

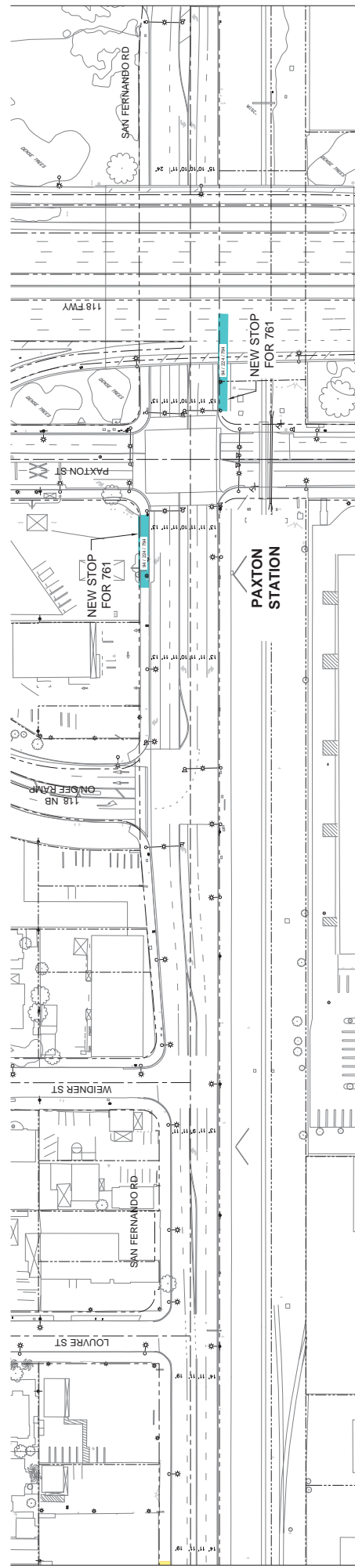
METRO  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 ALT1-9

MATCHLINE - SEE SHEET ALT1-9



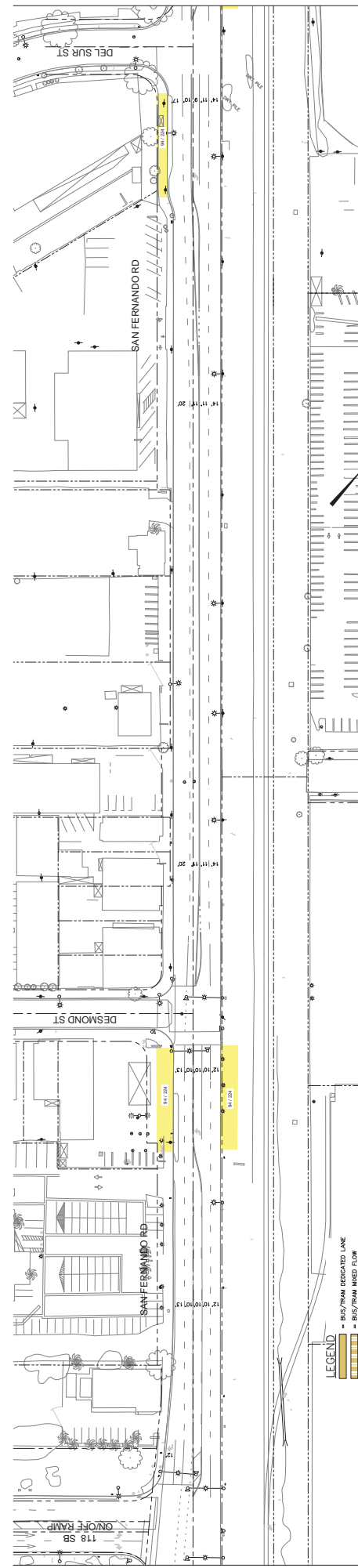
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE ALT1-11

- LEGEND**
- BUS/TRAM RELOCATED LANE
  - PROPOSED/IMPROVED STATION
  - EXISTING STOP
  - REMOVED STOP
  - REMOVED ON STREET PARKING
  - SAN FERNANDO FLY
  - SAN FERNANDO FLY



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# ALTERNATIVE 1 - BRT CURB RUNNING

**METRO**  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 ALT1-10

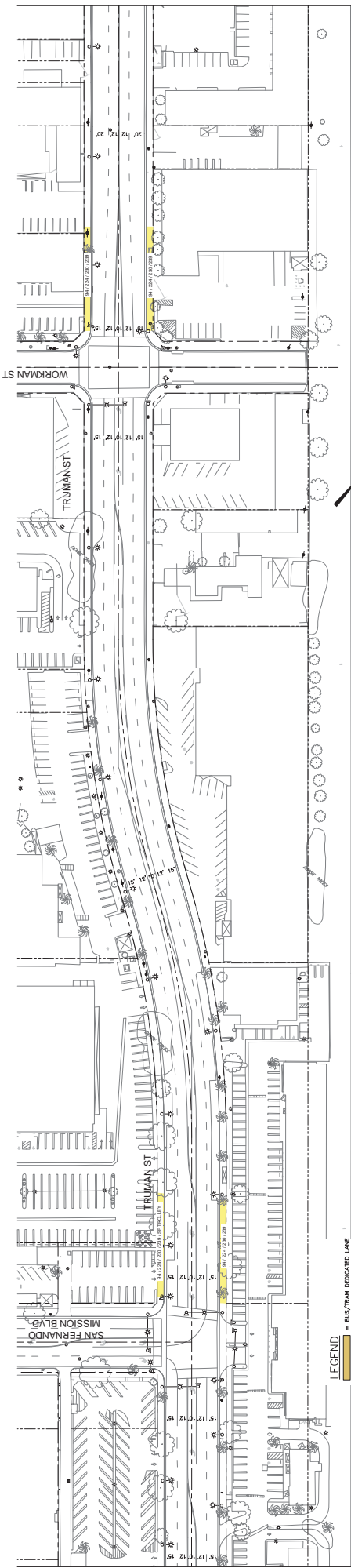
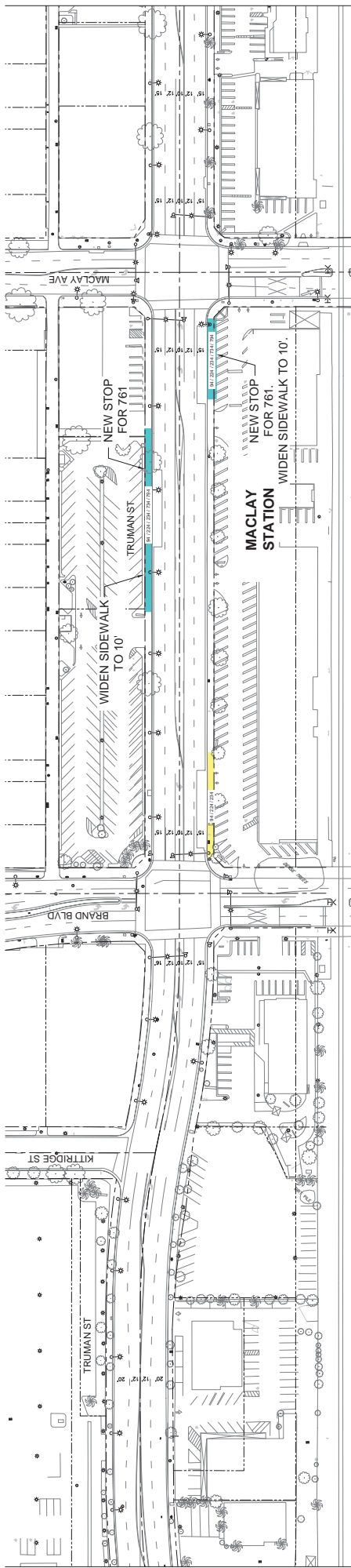
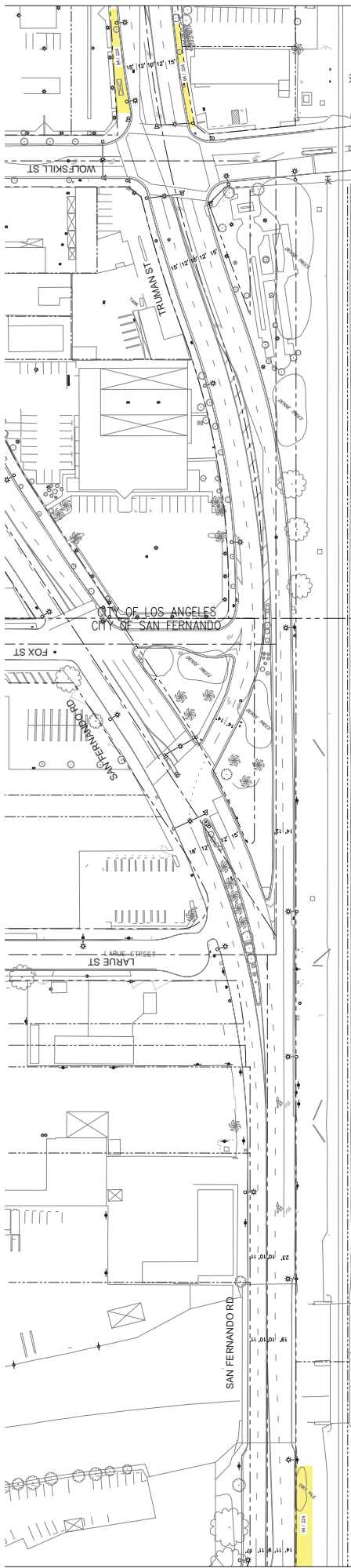
Small text at the bottom of the page containing project details and dates.



MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ALT-12



MATCHLINE - SEE ALT-10

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ABOVE RIGHT

- LEGEND**
- BUS/TRAM DEDICATED LANE
  - SHARED USE PATH
  - SHARED USE PATH FLOOR
  - SVA LANDSCAPING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - PROP./UPGRADED STOP
  - REMOVED STOP
  - REMOVED ON STREET PARKING

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 San Fernando, CA 91340  
 Tel: (818) 290-4100 Fax: (818) 290-4700

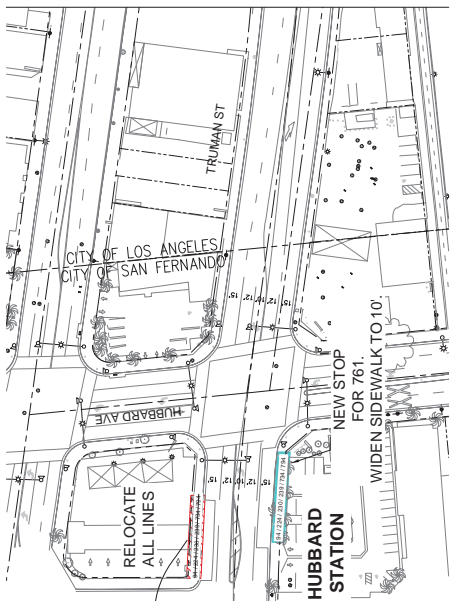
# ALTERNATIVE 1 - BRT CURB RUNNING

**METRO**  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 ALT-11-11

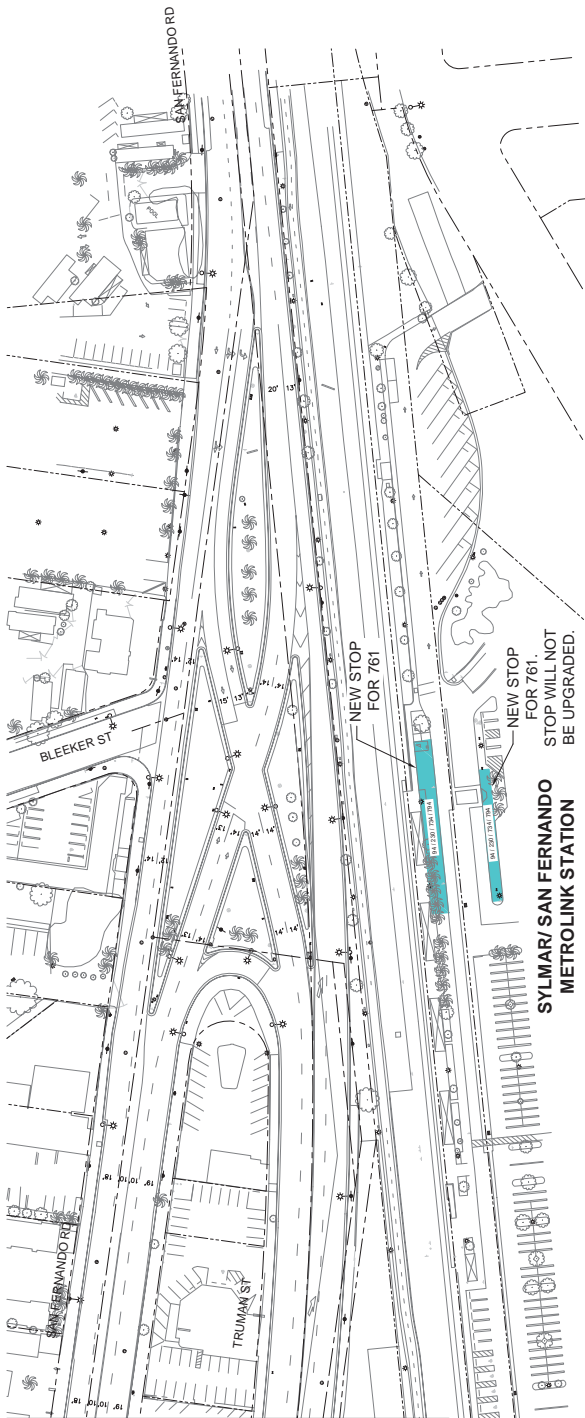
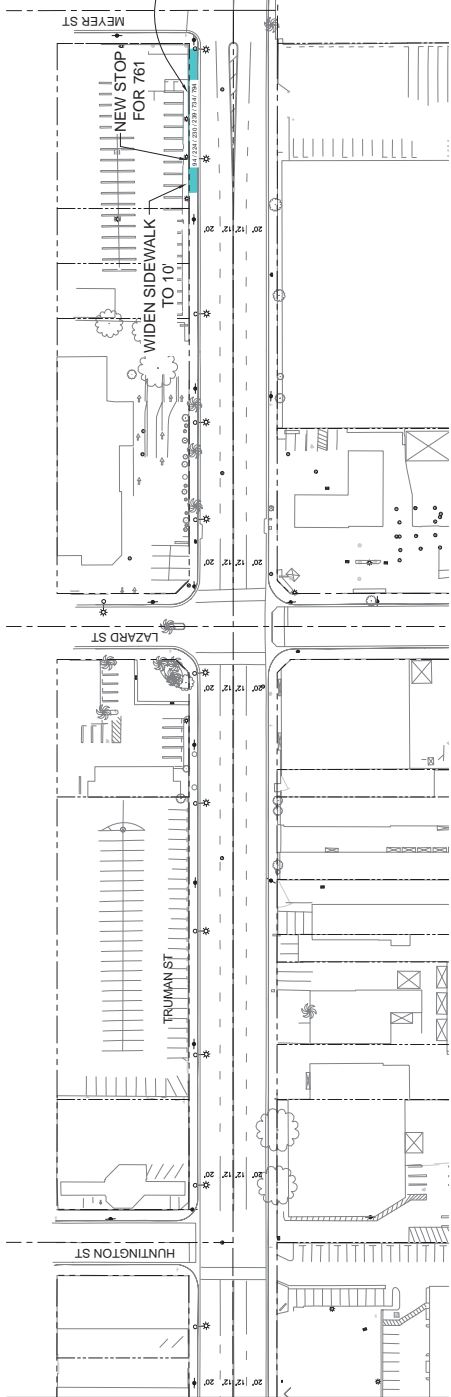


Small text at the bottom of the page containing project details, dates, and contact information.

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE ABOVE RIGHT



SYLMAR/ SAN FERNANDO METROLINK STATION

- LEGEND**
- BUS/BIKE DEDICATED LANE
  - BUS/BIKE MIXED FLOW
  - 5'W NARROWING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP
  - REMOVED ON STREET PARKING

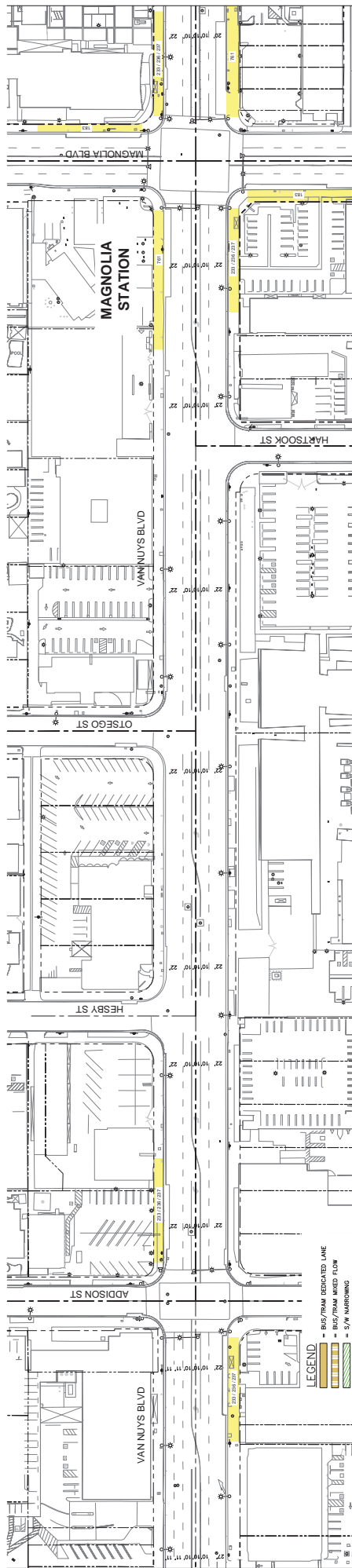
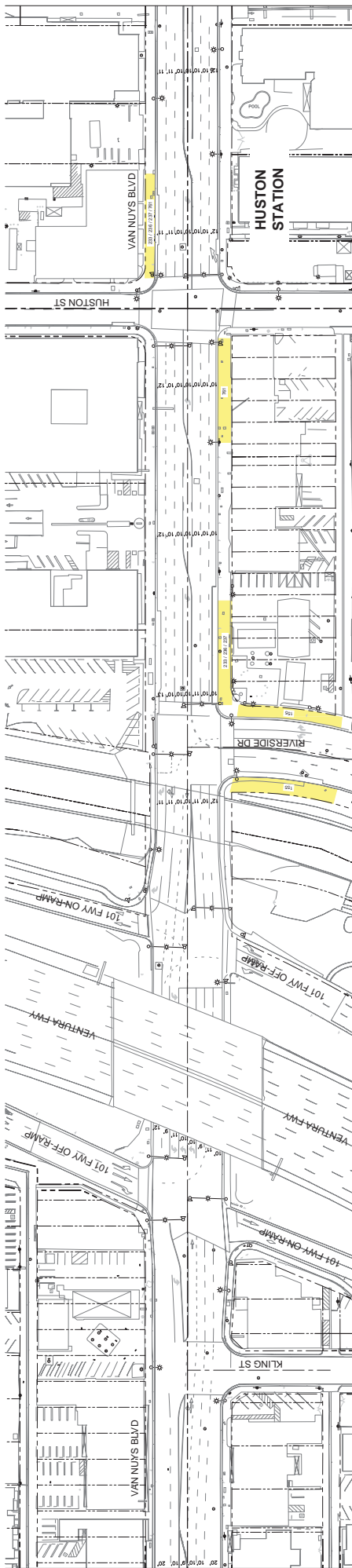
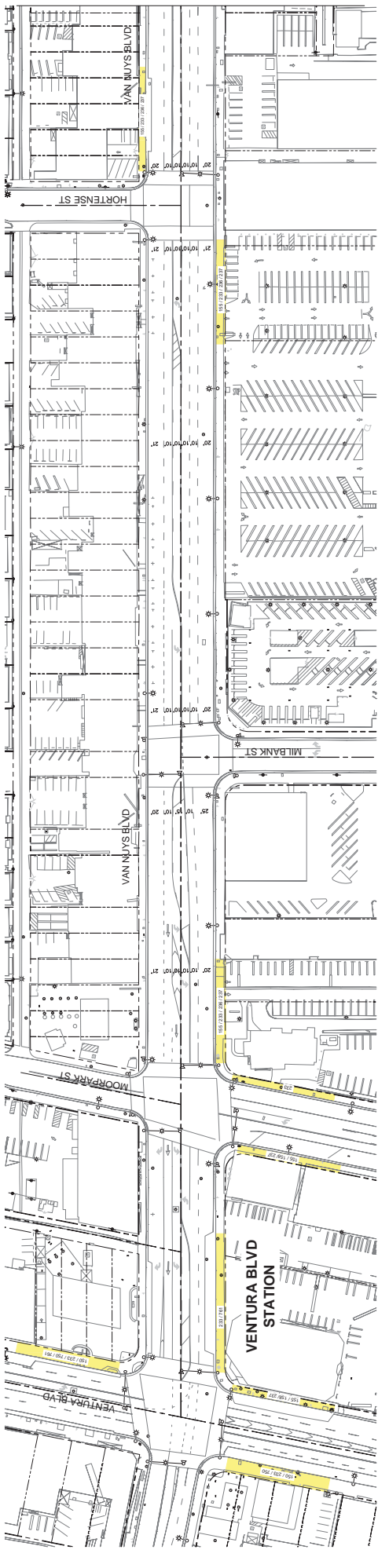


# ALTERNATIVE 1 - BRT CURB RUNNING

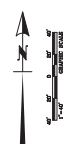
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE SHEET ALT-1



METRO  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT2-1



# ALTERNATIVE 2 - BRT MEDIAN RUNNING

- LEGEND**
- BRT/STREET DESIGNATED LANE
  - BRT/STREET MOUNTED SIGN
  - BRT/STREET MOUNTED SIGN
  - SW MARKING
  - EXISTING STOP
  - PROPOSED/UPGRADED STATION
  - EXISTING STOP
  - REMOVED ON STREET PARKING

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Tustin, CA 92680-1170 Fax: (714) 260-0700

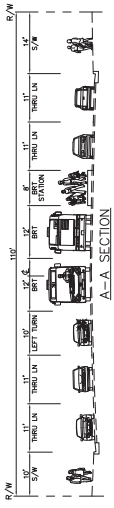
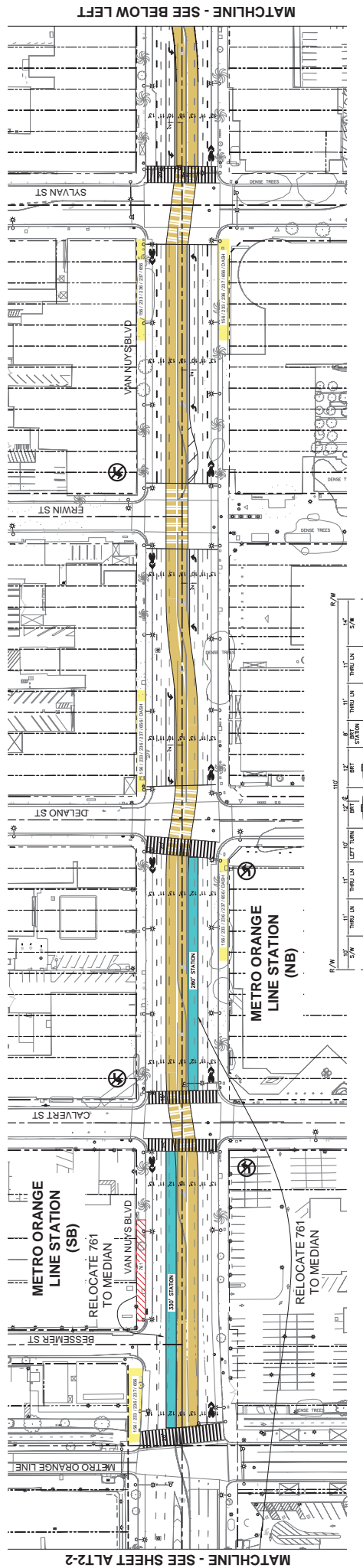
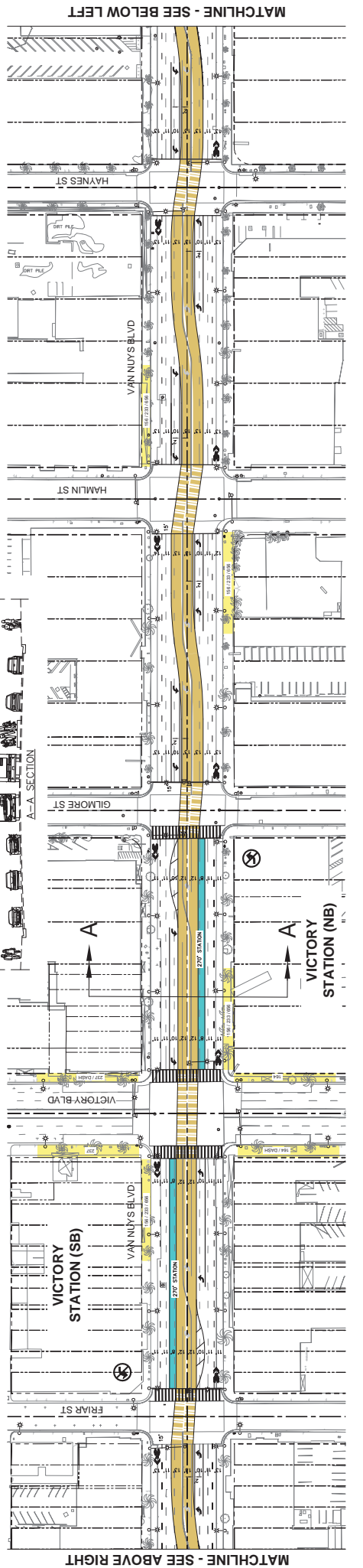
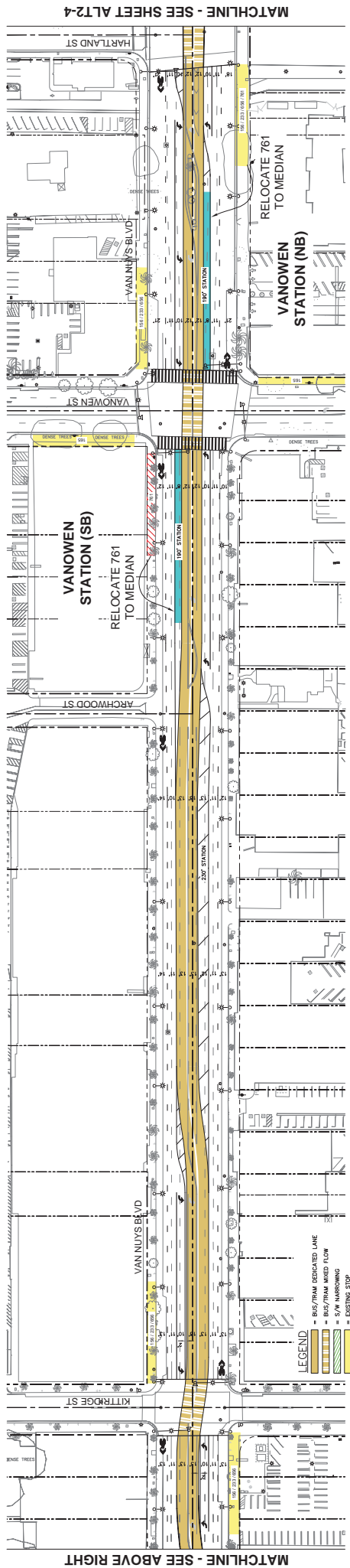
MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ABOVE RIGHT

Scale: 1" = 20' (Horizontal) 1" = 10' (Vertical) | Date: 10/15/2014 | Project: Metro East San Fernando Valley Transit Corridor - Alternative 2 - BRT Median Running | Drawing: ALT2-1 | Author: [Redacted] | Checker: [Redacted] | Title Block: [Redacted]

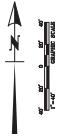


# ALTERNATIVE 2 - BRT MEDIAN RUNNING



**LEGEND**

- BRT FROM DESIGNATED LANE
- BRT FROM MIXED SLOW
- S/W NARROWING
- EXISTING STOP
- PROP. IMPROVED STATION
- REMOVED STOP
- REMOVED ON STREET PARKING



MATCHLINE - SEE ABOVE RIGHT

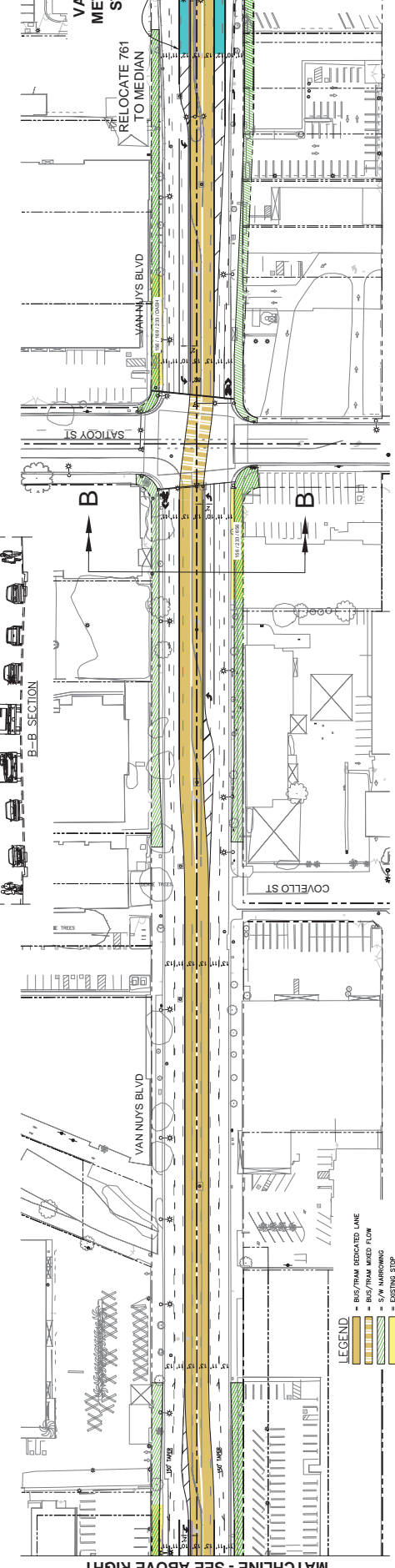
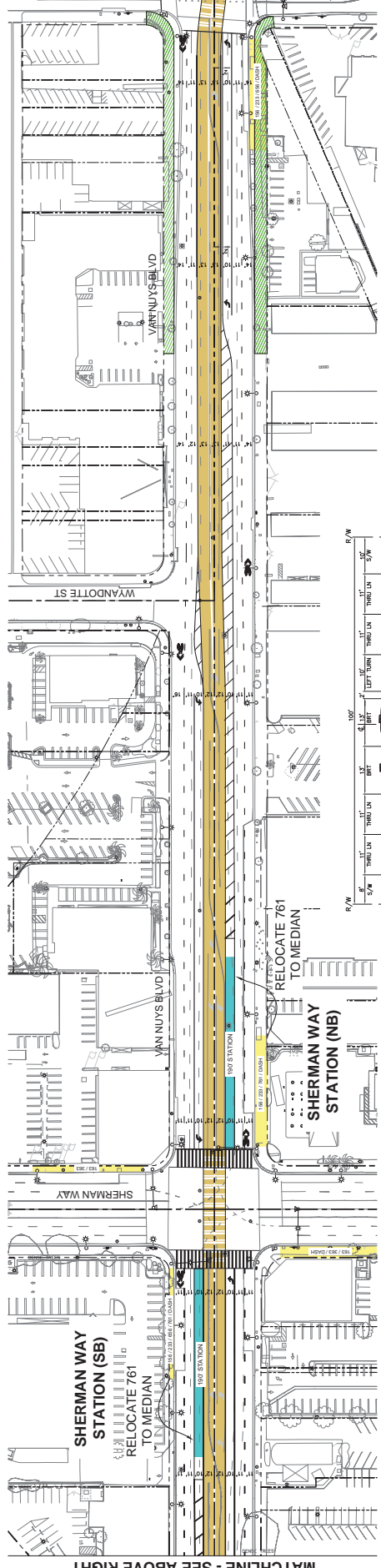
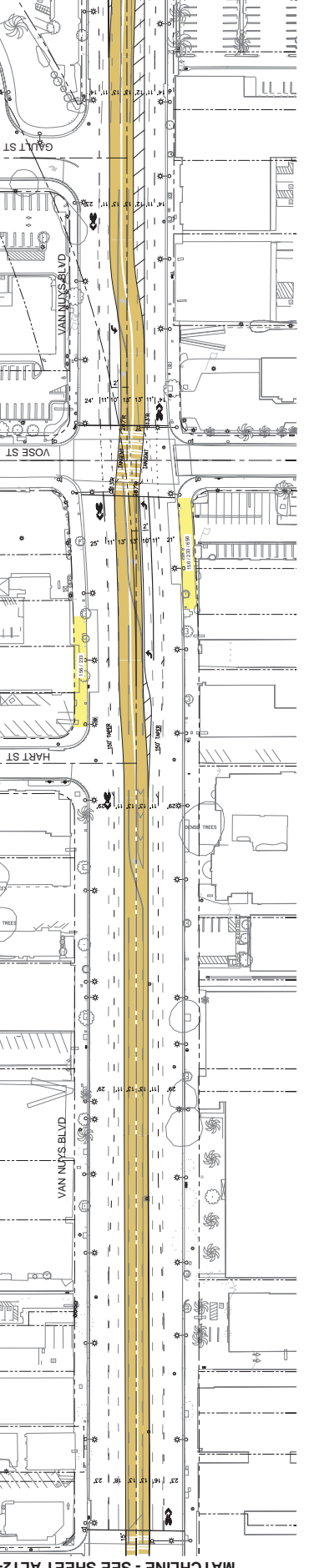
MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET ALT2-2

MATCHLINE - SEE SHEET ALT2-4

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE BELOW LEFT

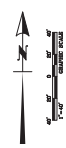


**LEGEND**

- Blue hatched box: BRT FROM RELOCATED LANE
- Yellow hatched box: BRT FROM MIXED SLOW
- Green hatched box: S/W MAJORING
- Red hatched box: EXISTING STOP
- Blue hatched box: PROP. IMPROVED STATION
- Yellow hatched box: REMOVED STOP
- Red hatched box: REMOVED ON STREET PARKING

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 Van Nuys, CA 91411  
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# ALTERNATIVE 2 - BRT MEDIAN RUNNING



MATCHLINE - SEE BELOW LEFT

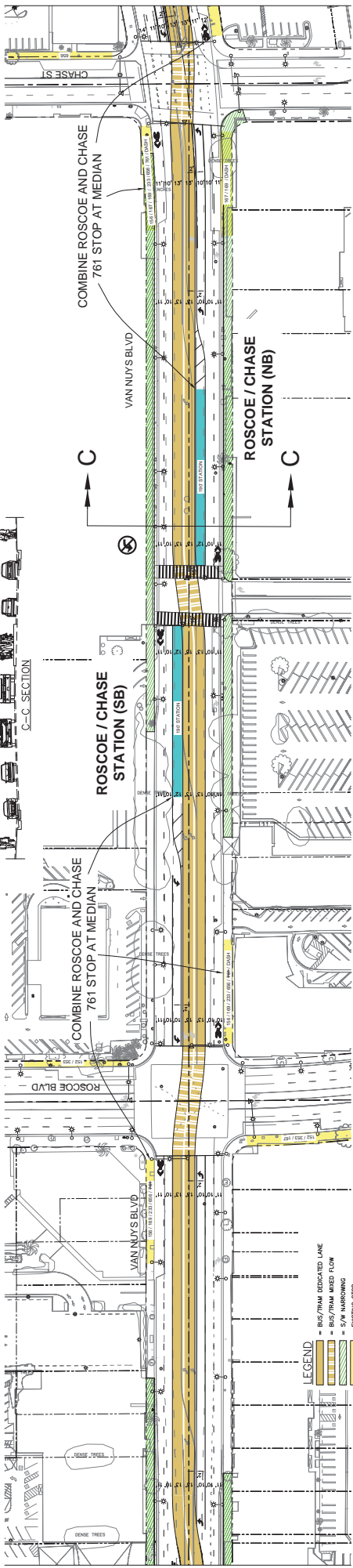
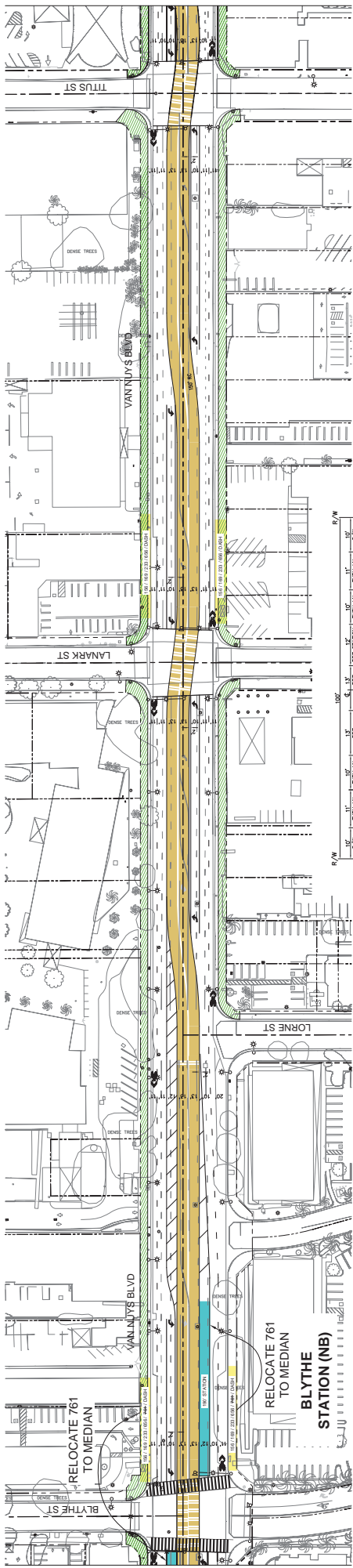
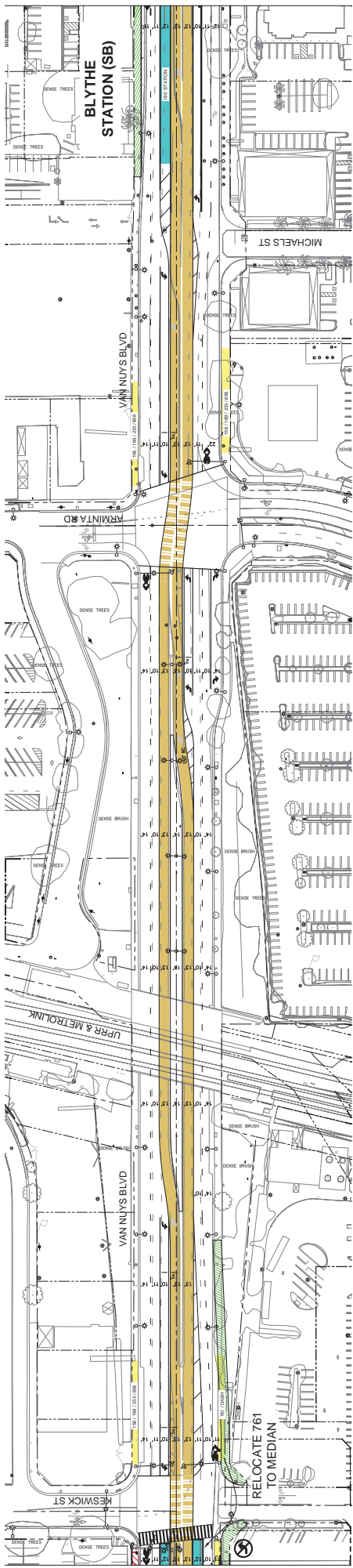
MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET ALT2-5

MATCHLINE - SEE SHEET ALT2-3

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ABOVE RIGHT



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Folsom, CA 95630  
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**METRO**  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT2-5

**ALTERNATIVE 2 - BRT MEDIAN RUNNING**

**LEGEND**

- BRT FROM DESIGNATED LANE
- BRT FROM MIXED SLOW
- S/W MARKING
- EXISTING STOP
- PROP. IMPROVED STATION
- EXISTING STOP
- REMOVED ON STREET PARKING

MATCHLINE - SEE BELOW LEFT

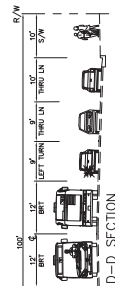
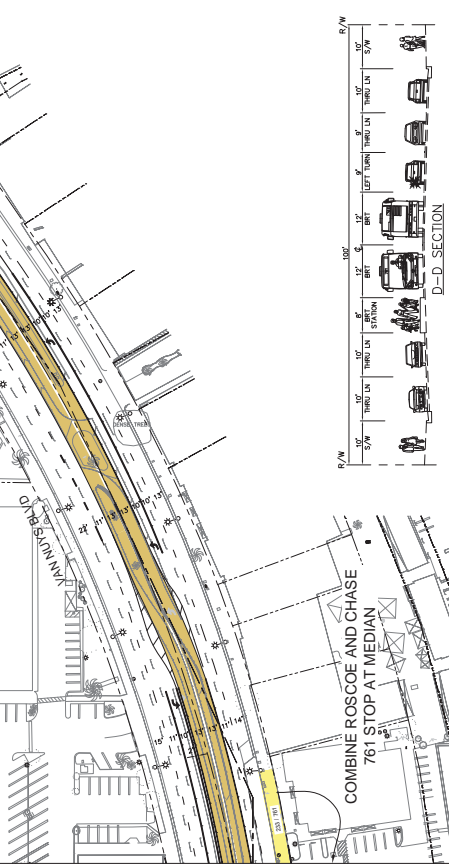
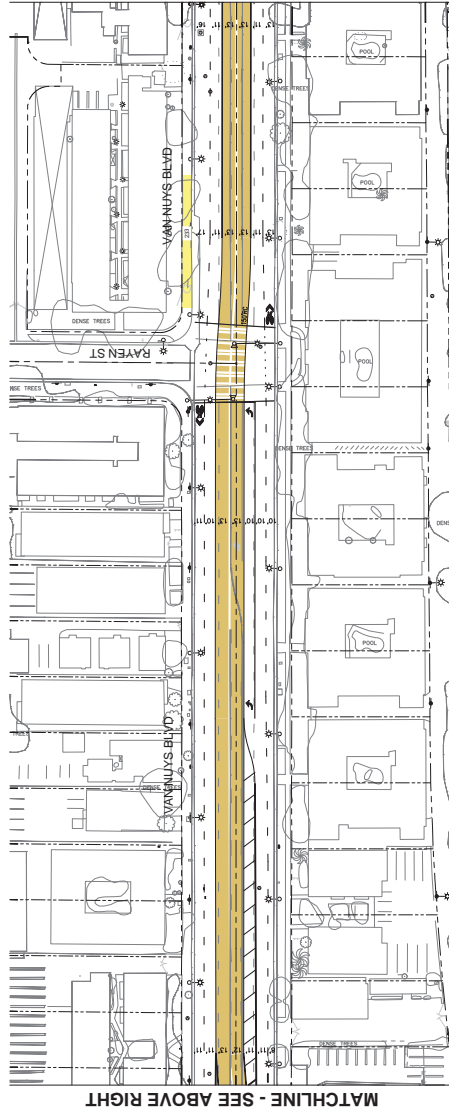
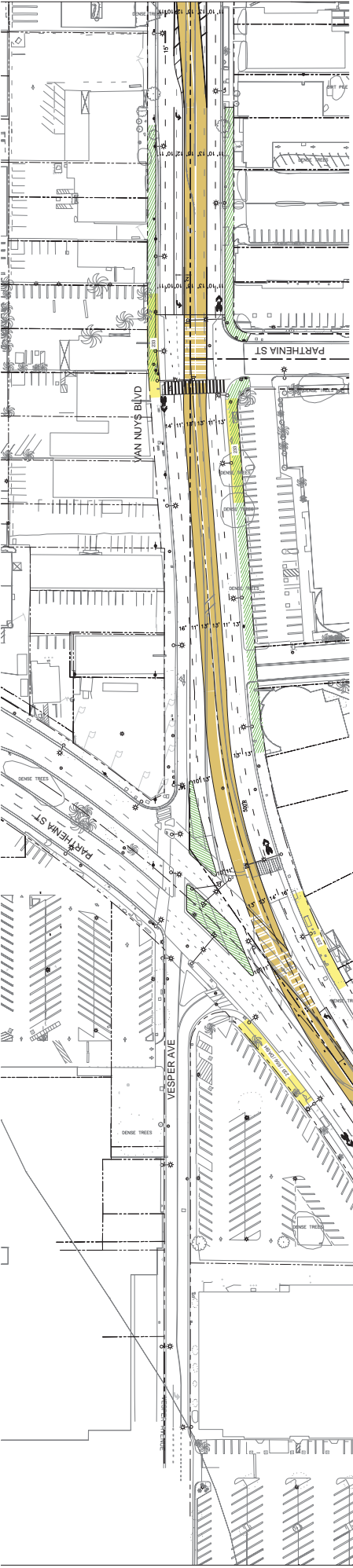
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE SHEET ALT2-7



# ALTERNATIVE 2 - BRT MEDIAN RUNNING

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Tustin, CA 92680-1100 Fax: (714) 260-0700



**LEGEND**

- BRT FROM DESIGNATED LANE
- BRT FROM MARKED SLOW
- S/W MARKING
- EXISTING STOP
- PROPOSED STOP
- REMOVED ON STREET PARKING

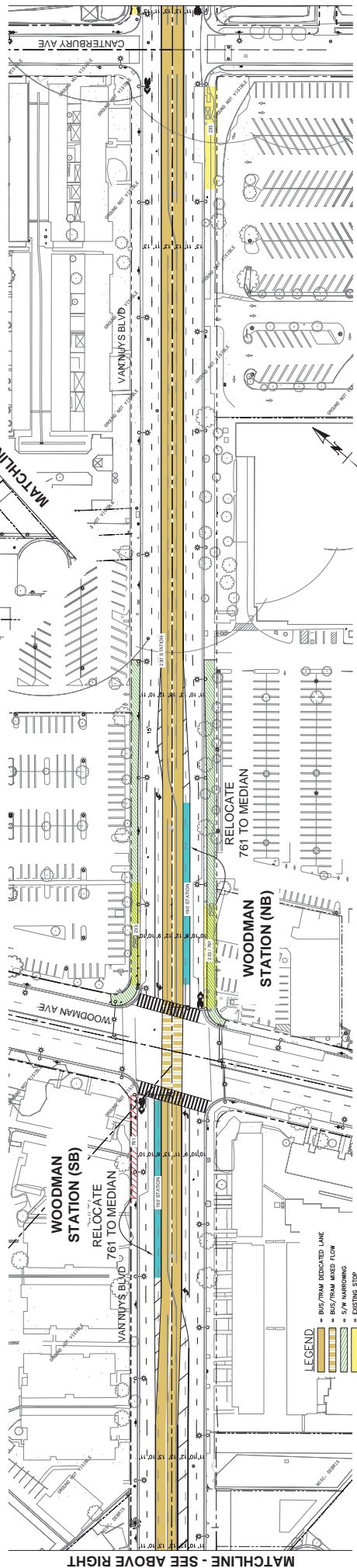
MATCHLINE - SEE SHEET ALT2-5

MATCHLINE - SEE ABOVE RIGHT

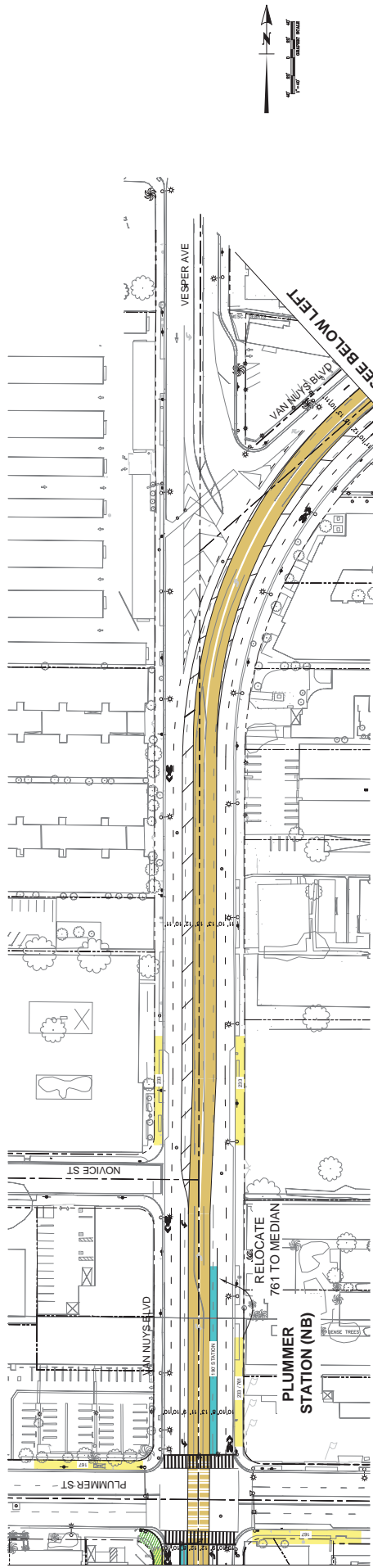
MATCHLINE - SEE ABOVE RIGHT



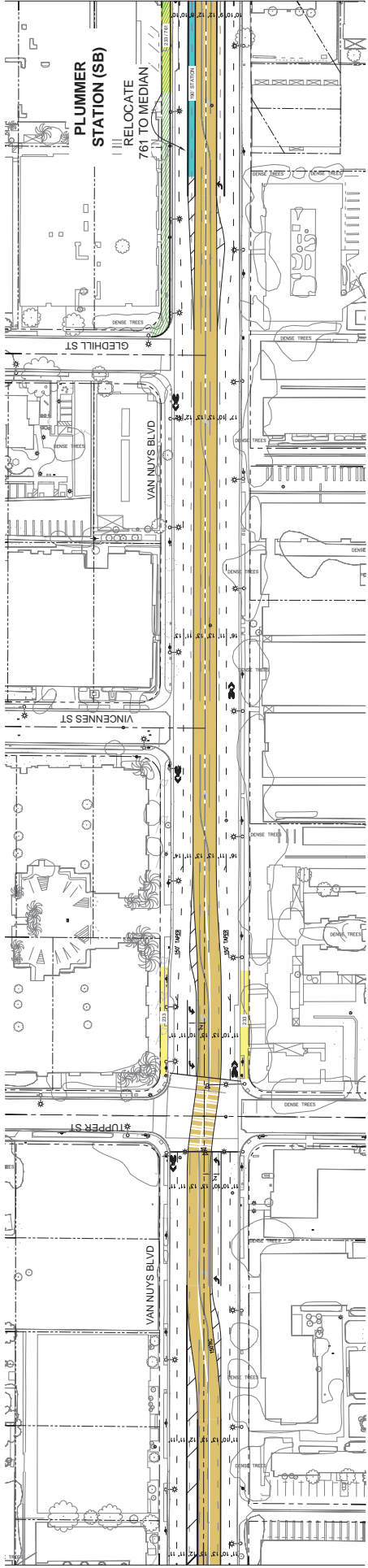
# ALTERNATIVE 2 - BRT MEDIAN RUNNING



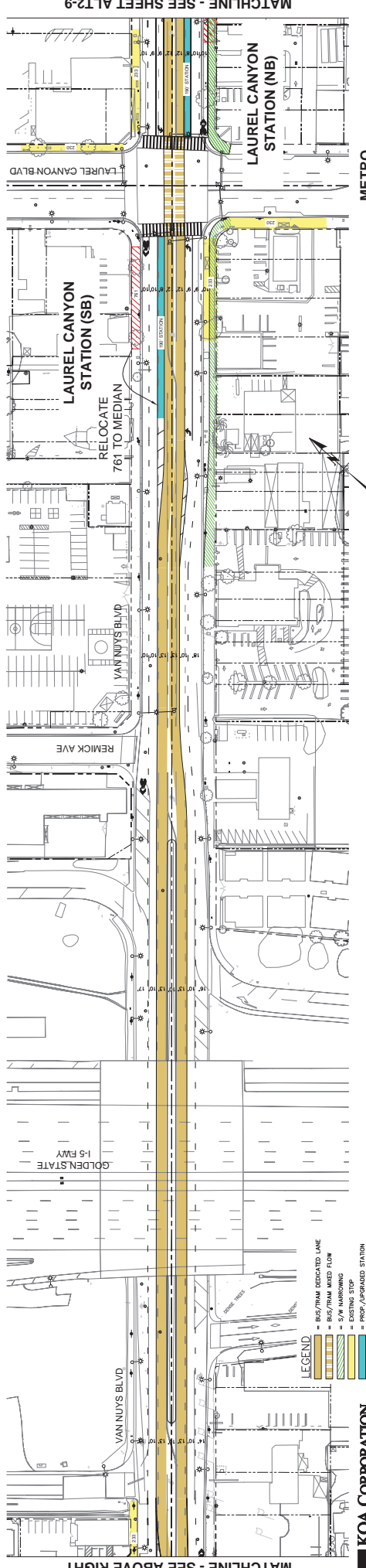
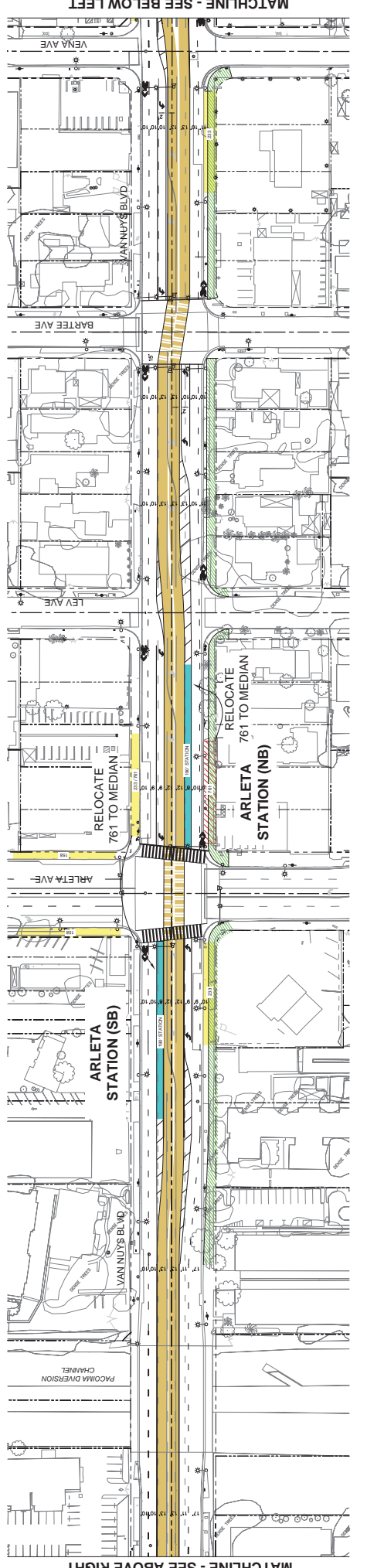
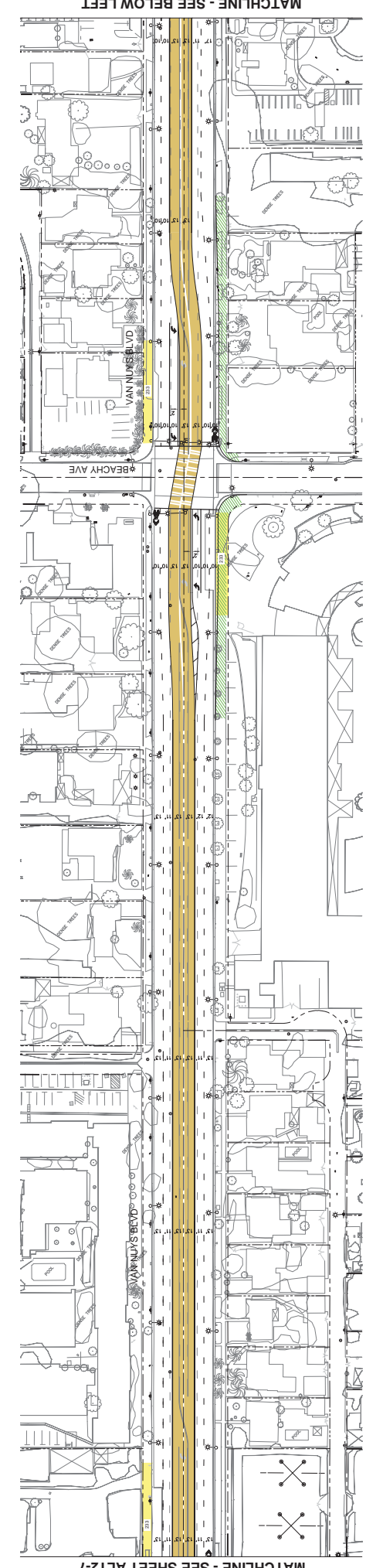
MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE SHEET ALT-7  
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT  
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT  
MATCHLINE - SEE SHEET ALT-2-8

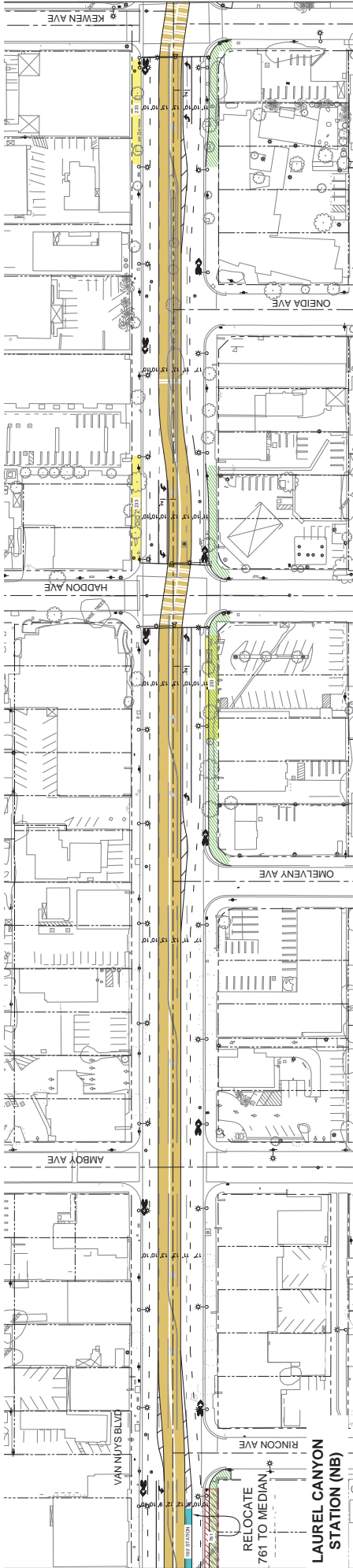
# ALTERNATIVE 2 - BRT MEDIAN RUNNING

METRO  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 ALT2-8

- LEGEND**
- [Blue Hatched Box] BRT FROM EXISTING LANE
  - [Blue Box] BRT FROM NEW MEDIAN
  - [Green Hatched Box] S/W WARNING
  - [Green Box] EXISTING STOP
  - [Red Hatched Box] PROP. IMPROVED STATION
  - [Red Box] EXISTING STOP
  - [Red Dashed Box] REMOVED ON STREET PARKING

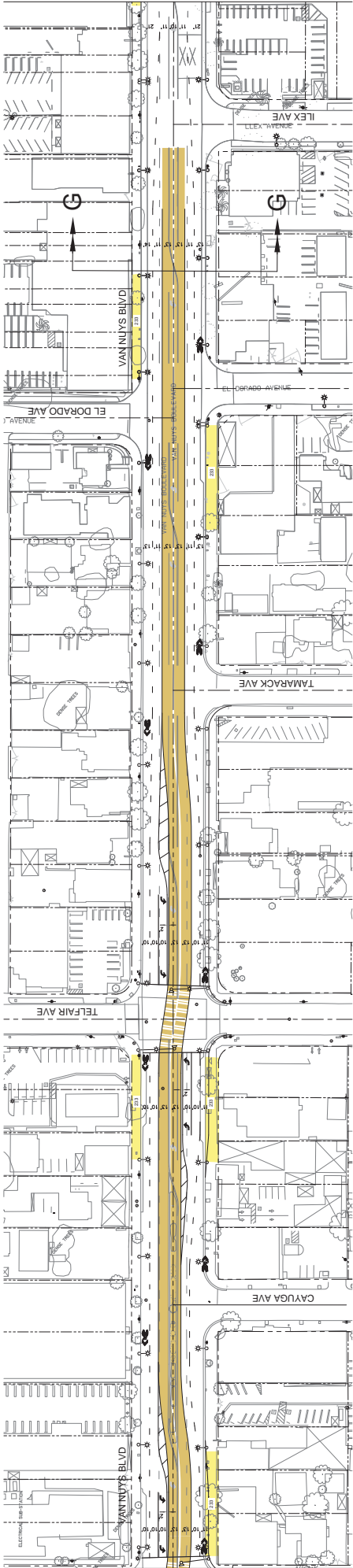


MATCHLINE - SEE BELOW LEFT



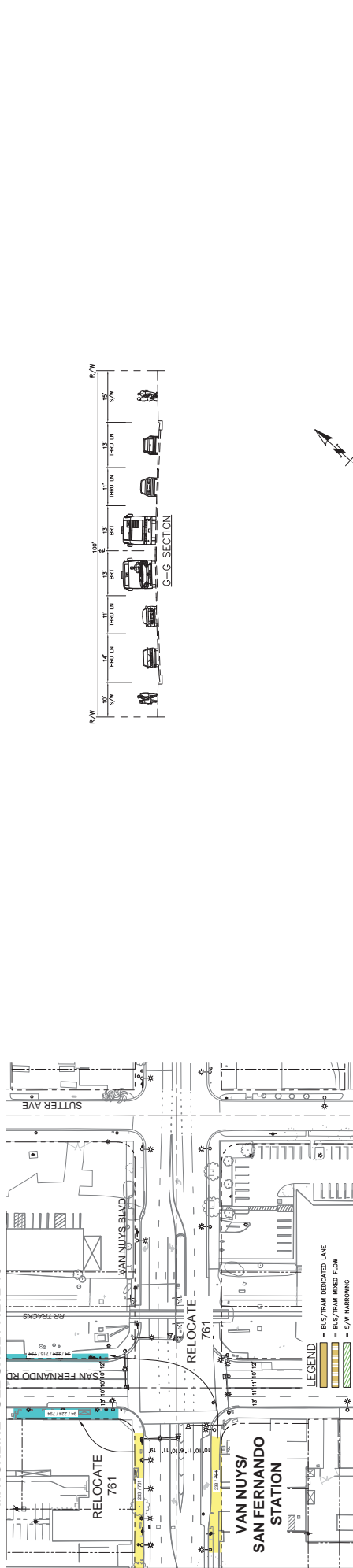
MATCHLINE - SEE SHEET ALT2-8

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE SHEET ALT2-10

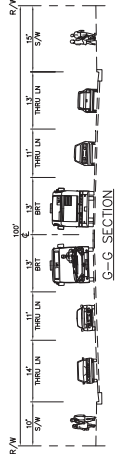


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# ALTERNATIVE 2 - BRT MEDIAN RUNNING

METRO  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT2-9

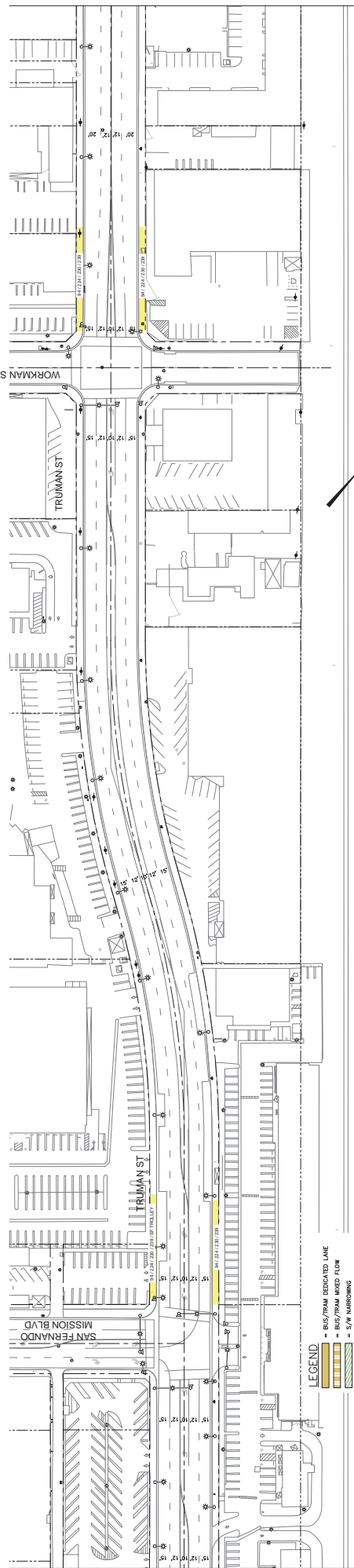
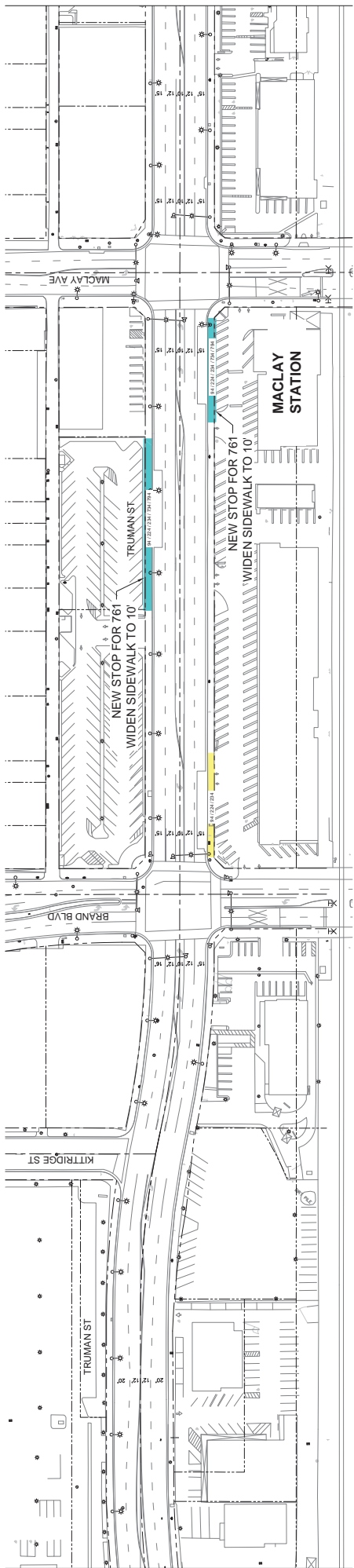
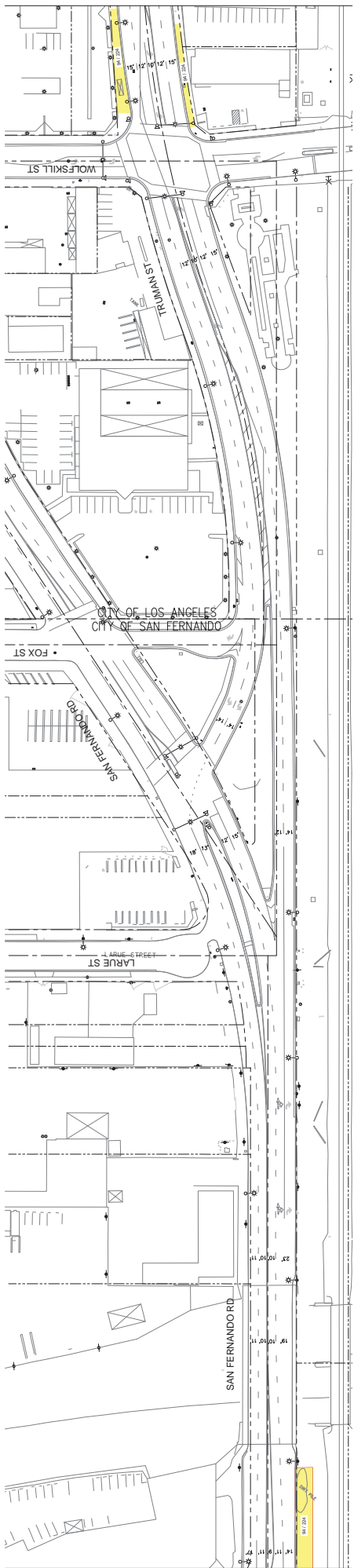




MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ALT-12

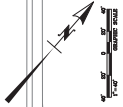


MATCHLINE - SEE ALT-10

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ABOVE RIGHT

- LEGEND**
- BRT FROM RESERVED LINE
  - BRT FROM MIXED SLOW
  - SW NARROWING
  - EXISTING STOP
  - PROP. UPGRADED STATION
  - PLANNED STOP
  - REMOVED ON STREET PARKING



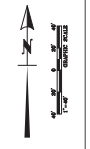
**METRO**  
**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR**  
**ALT-12-11**

# ALTERNATIVE 2 - BRT MEDIAN RUNNING

**KOA CORPORATION**  
**PLANNING & ENGINEERING**  
 1100 Corporate Center Drive, Suite 201  
 Los Angeles, CA 90015  
 Tel: (323) 290-4100 Fax: (323) 290-4700

Small text at the bottom of the page containing project details and dates.

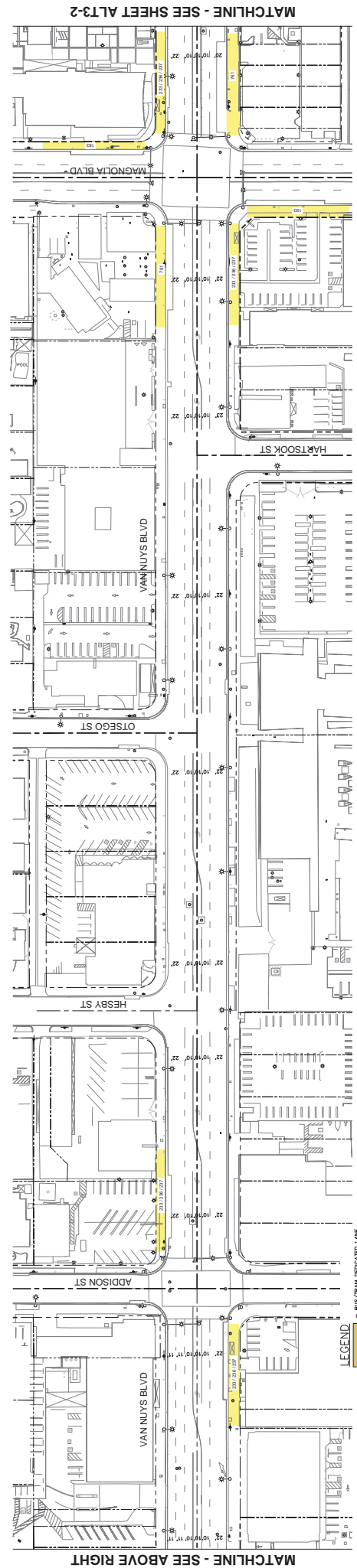




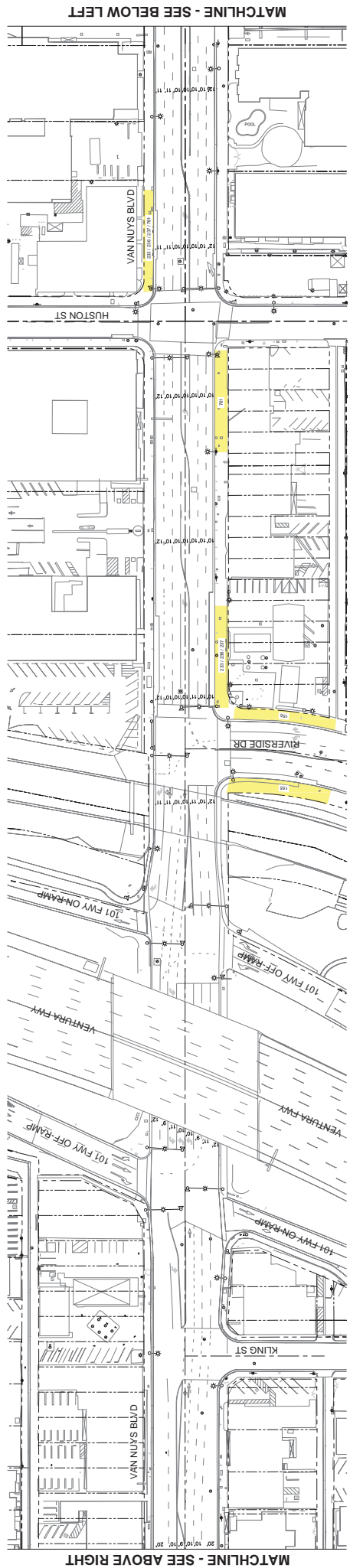
# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

- LEGEND**
- BUS/BIKE DEDICATED LANE
  - BUS/BIKE MIXED FLOW
  - 5' W. NARROWING OR MODING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP

**KOA CORPORATION**  
PLANNING & ENGINEERING  
1100 Corporate Center Drive, Suite 201  
Van Nuys, CA 91411  
Tel: (818) 250-1170 Fax: (818) 250-0708

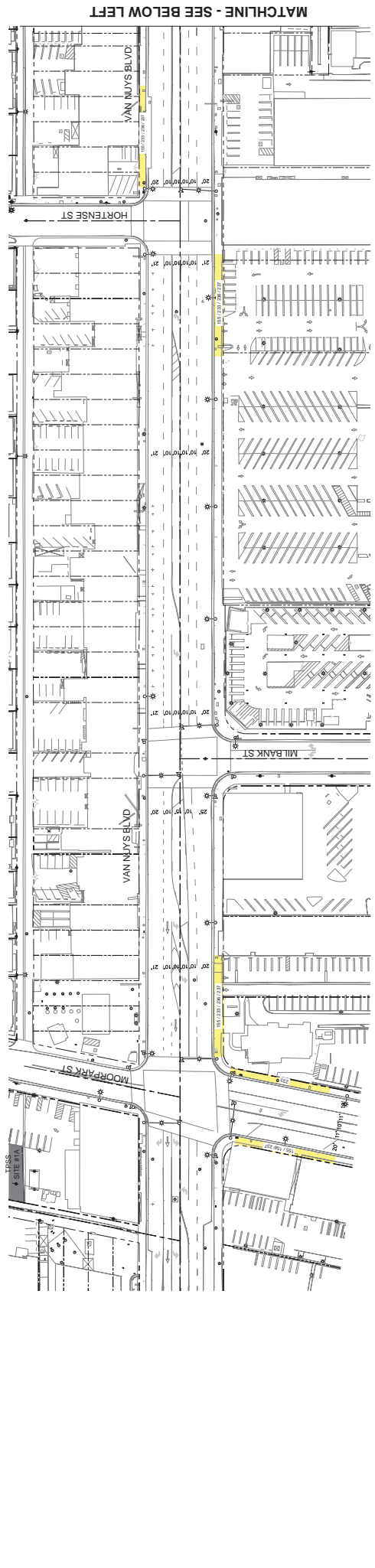


MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE BELOW LEFT

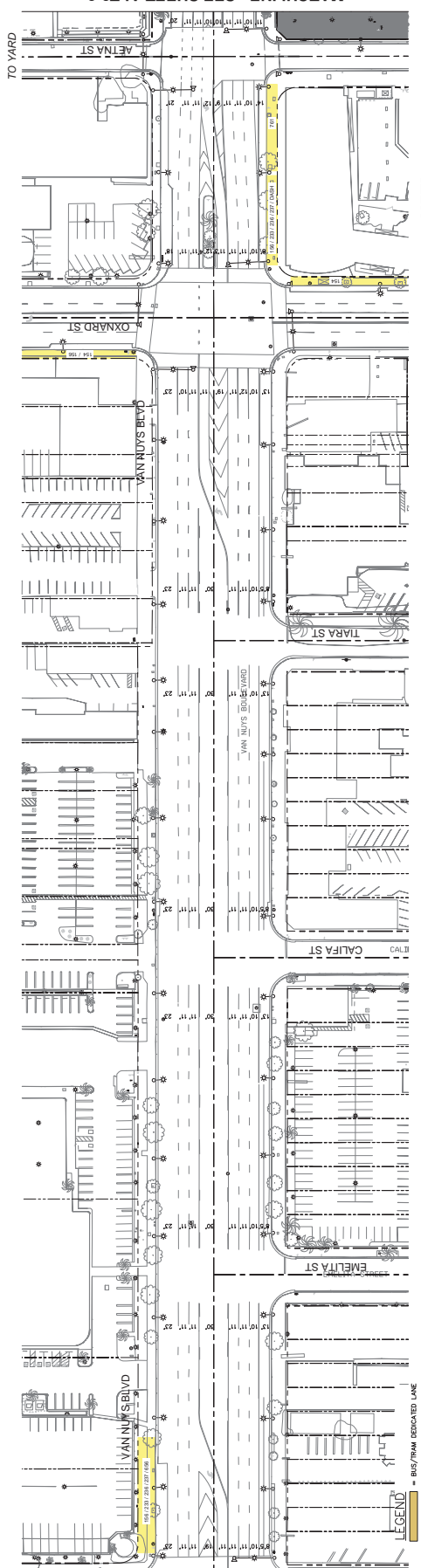
As Shown: May 20, 2014 - 11:58 AM. Plan File: May 20, 2014 - 11:58 AM. Project: Metro East San Fernando Valley Transit Corridor (Alternative 3) - 03/14/14 - 11:58 AM. Scale: 1" = 100'. Date: May 20, 2014. Project: Metro East San Fernando Valley Transit Corridor (Alternative 3) - 03/14/14 - 11:58 AM. Scale: 1" = 100'. Date: May 20, 2014.

**ALTERNATIVE 3 - TRAM MEDIAN RUNNING**

**METRO**  
**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR**  
**ALT3-2**

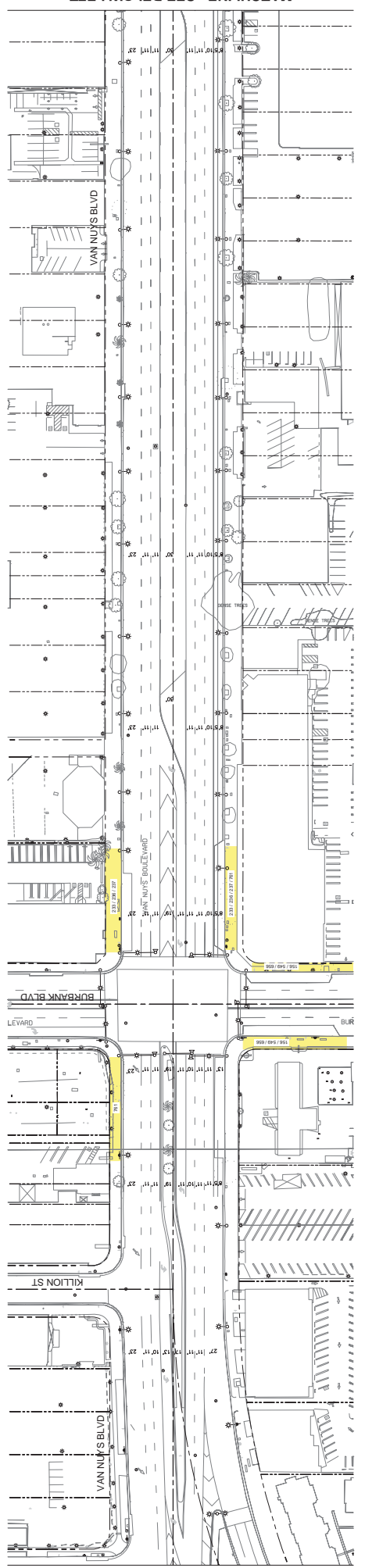
**LEGEND**

- BUS/TRAM DESIGNATED LANE
- 5' W/ TRAM MARKED FL/W
- 5' W/ MARKING OR MARKING
- EXISTING STOP
- PROP./UPGRADED STATION
- REMOVED STOP



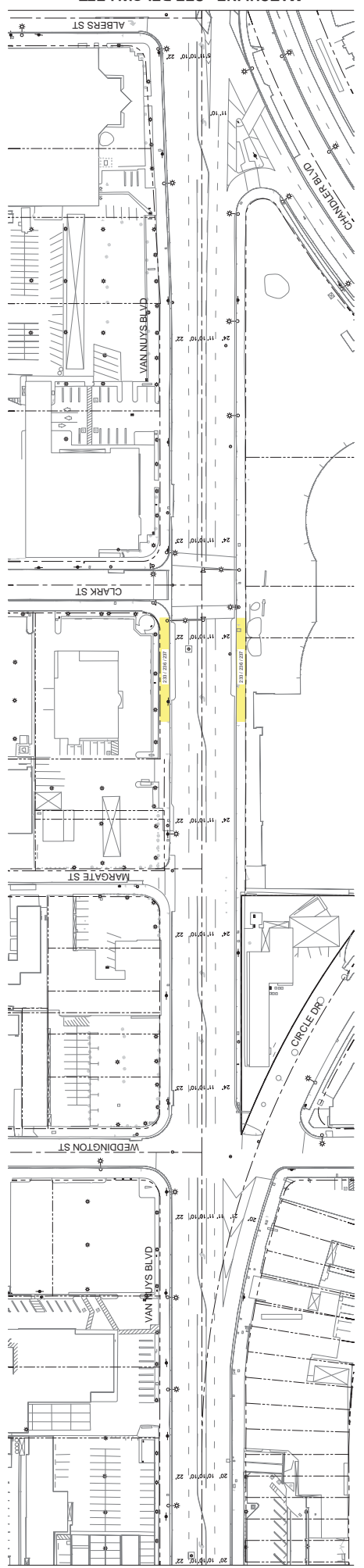
MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET ALT3-3



MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE SHEET ALT3-1

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE SHEET ALT-3-4

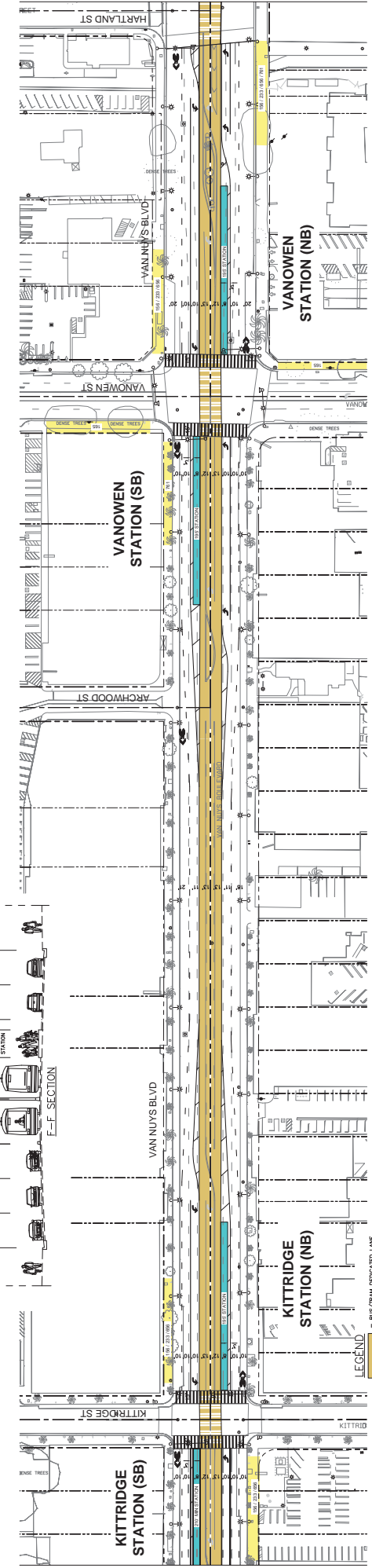
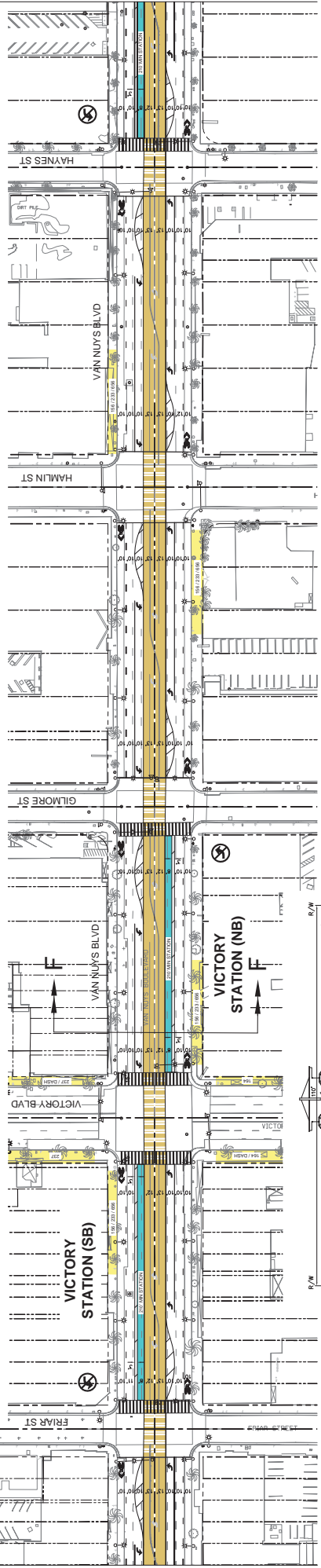
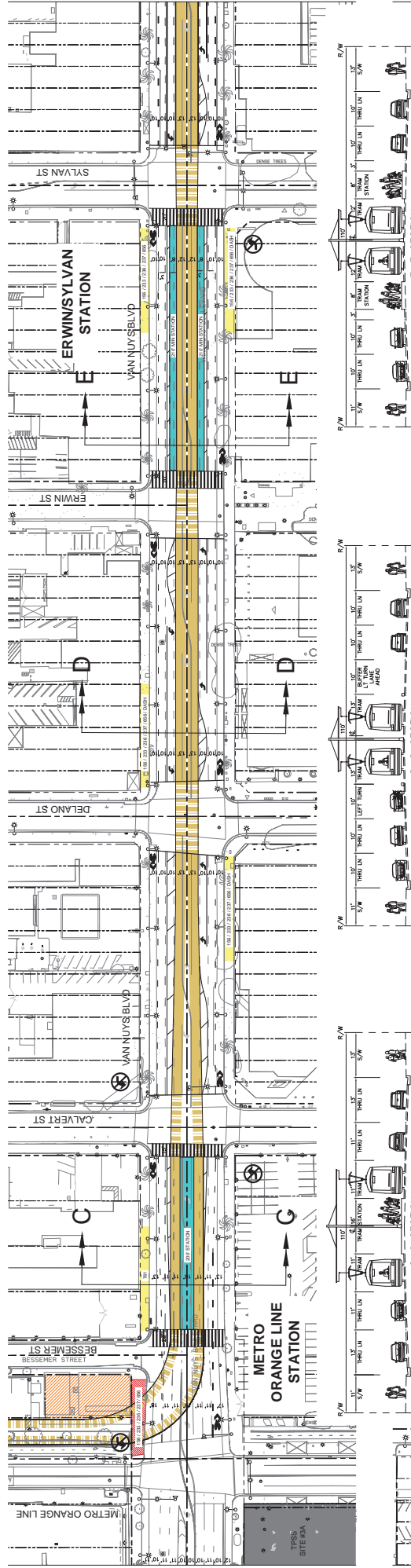
METRO  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT-3-3



# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

- LEGEND**
- BUS/BIKE DESIGNATED LANE
  - BUS/BIKE MIXED FLOW
  - 5' M NARROWING OR MOJING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP

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 Torrance, CA 90501  
 Tel: (310) 200-1110 Fax: (310) 200-0700

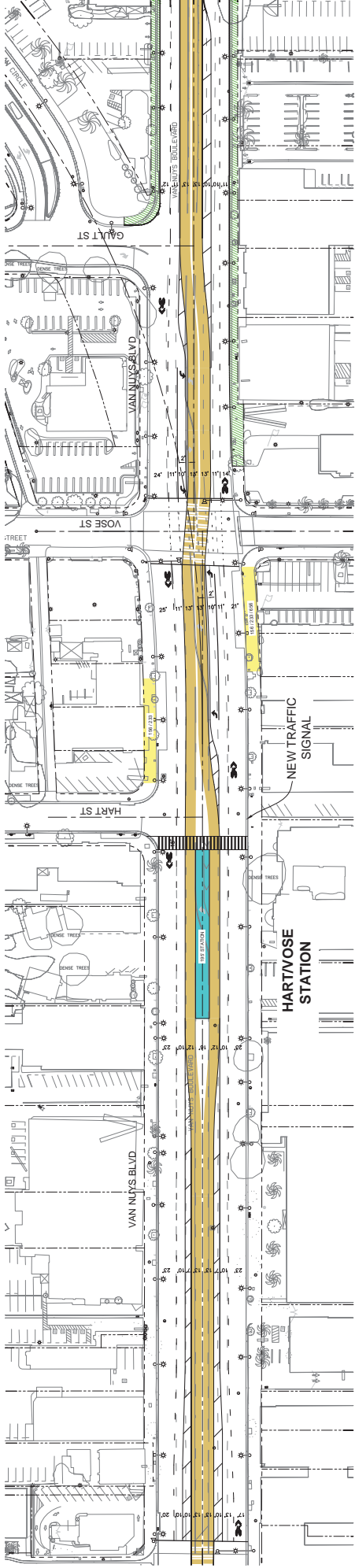


MATCHLINE - SEE ALT-3-2

MATCHLINE - SEE ABOVE RIGHT

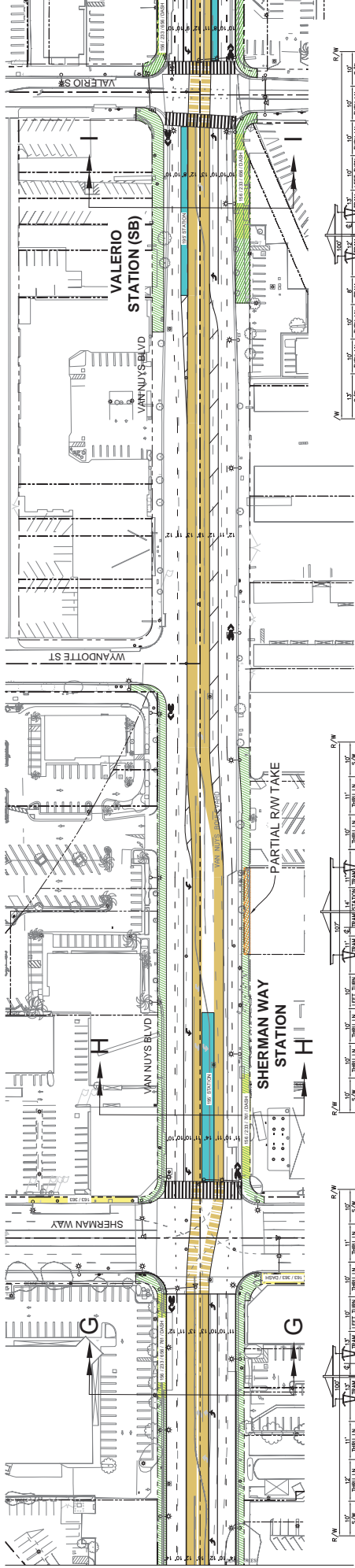
MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET ALT3-3



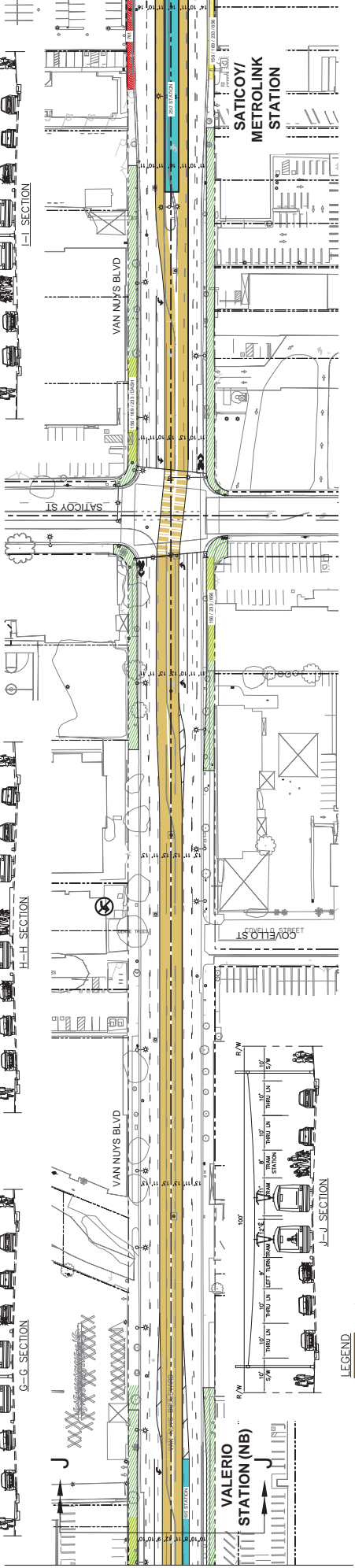
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT



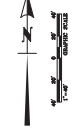
MATCHLINE - SEE SHEET ALT3-5

- LEGEND**
- BUS/BIKE DEDICATED LANE
  - BUS/BIKE MIXED FLOW
  - 5' M NARROWING OR MODING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP

**KOIA CORPORATION**  
 PLANNING & ENGINEERING  
 1100 Corporate Center Drive, Suite 201  
 Los Angeles, CA 90007  
 Tel: (323) 290-1100 Fax: (323) 290-0708

# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

**METRO**  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 ALT3-4

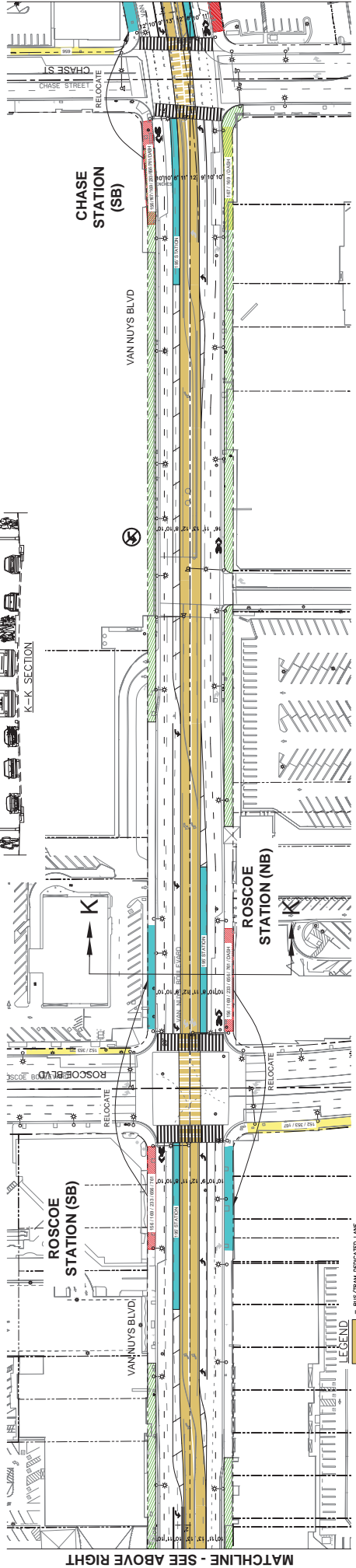
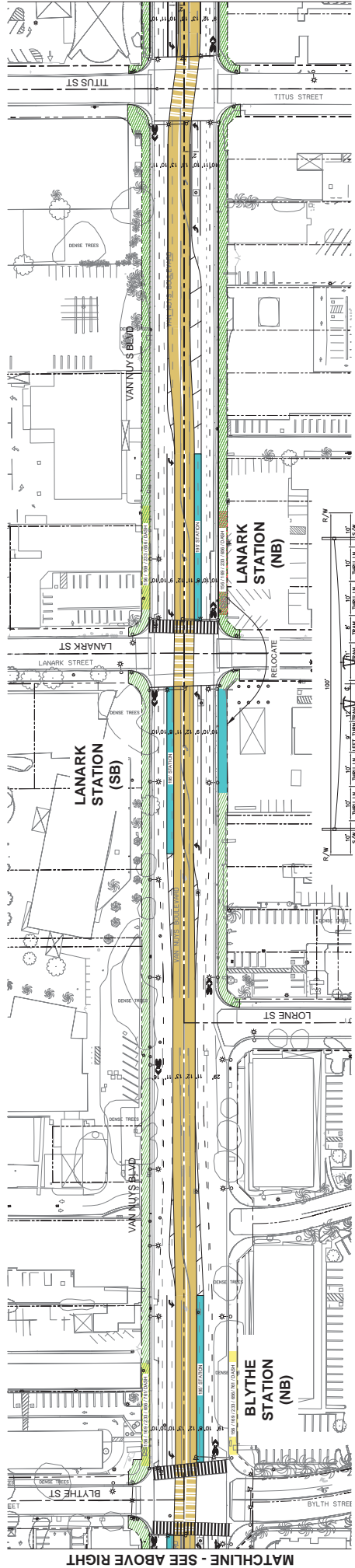
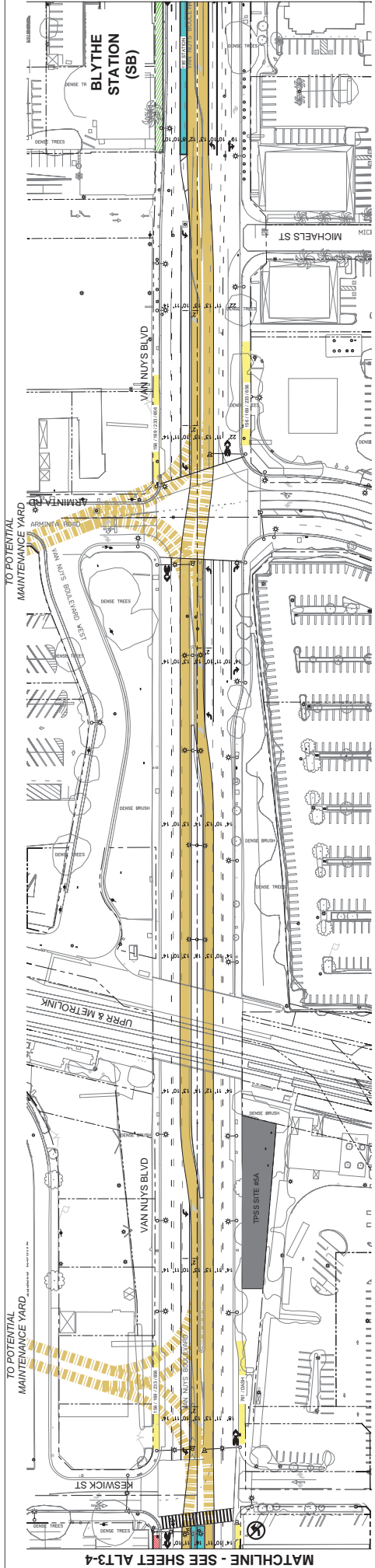


As shown on the drawing, the design is based on the information provided by the client. The design is not intended to be used for any other purpose without the written consent of KOIA Corporation.

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE SHEET ALT3-6



TO POTENTIAL MAINTENANCE YARD TO POTENTIAL MAINTENANCE YARD

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ABOVE RIGHT

METRO EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR ALT3-5



# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

**KOA CORPORATION**  
 PLANNING & ENGINEERING  
 1100 Corporate Center Drive, Suite 201  
 Torrance, CA 90503  
 Tel: (310) 200-1100 Fax: (310) 200-0700

**LEGEND**

- BUS/BIKE DEDICATED LANE
- BUS/BIKE MIXED FLOW
- 5' M NARROWING OR MODING
- EXISTING STOP
- PROP./UPGRADED STATION
- REMOVED STOP

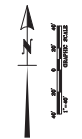
DATE: 08/20/2014 11:00 AM

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE SHEET ALT3-7

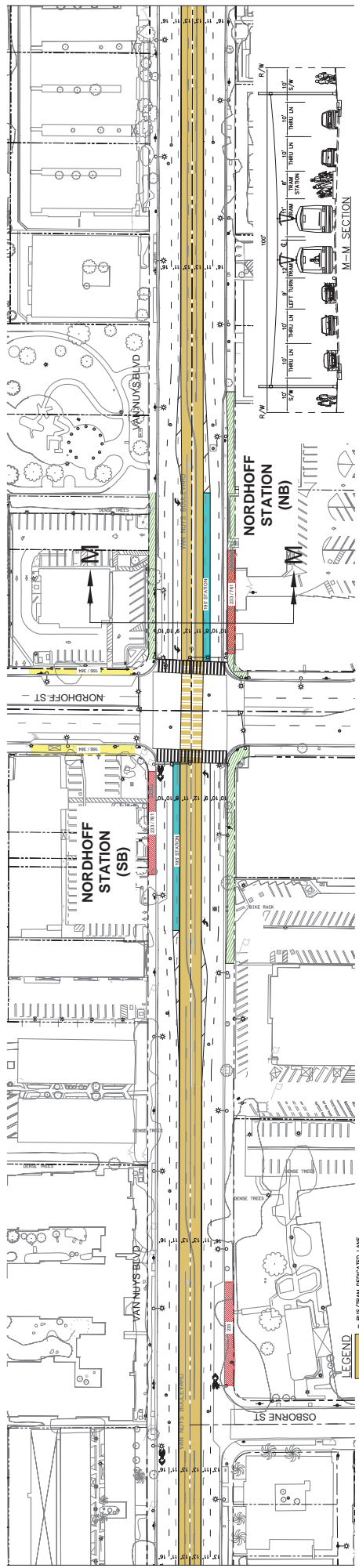
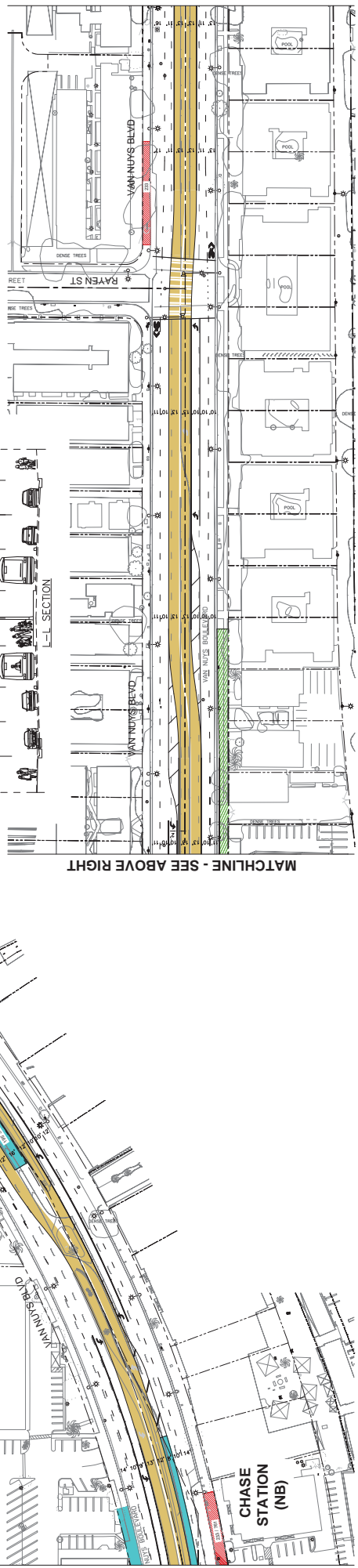
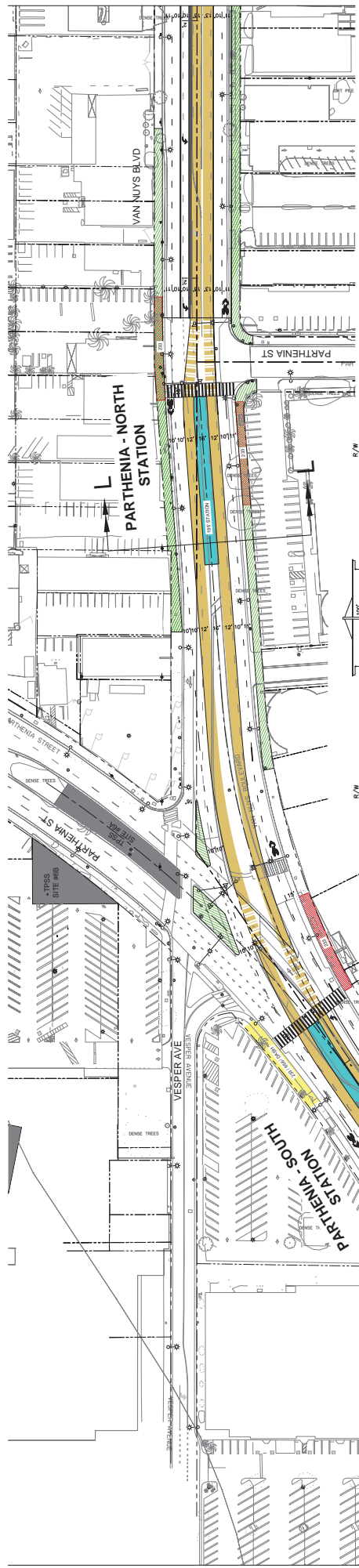
METRO  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT3-6



# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

- LEGEND
- BUS/BIKE DEDICATED LANE
- BUS/BIKE MIXED FLOW
- 5' W/ NARROWING OR MOJING
- EXISTING STOP
- PROP./UPGRADED STATION
- REMOVED STOP

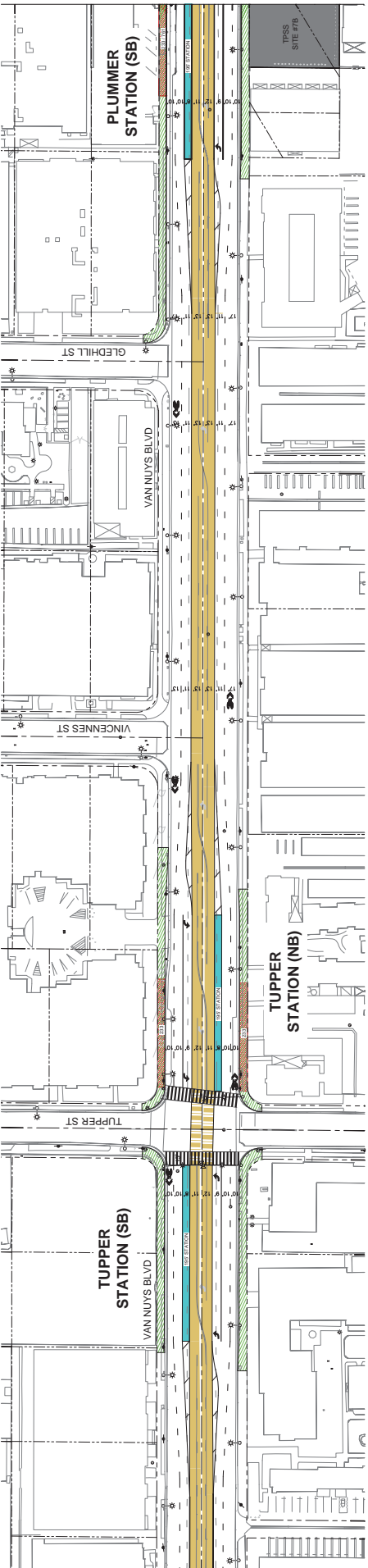
**KOAA CORPORATION**  
 PLANNING & ENGINEERING  
 1100 Corporate Center Drive, Suite 201  
 Torrance, CA 90503  
 Tel: (310) 200-1100 Fax: (310) 200-1100



MATCHLINE - SEE SHEET ALT3-5

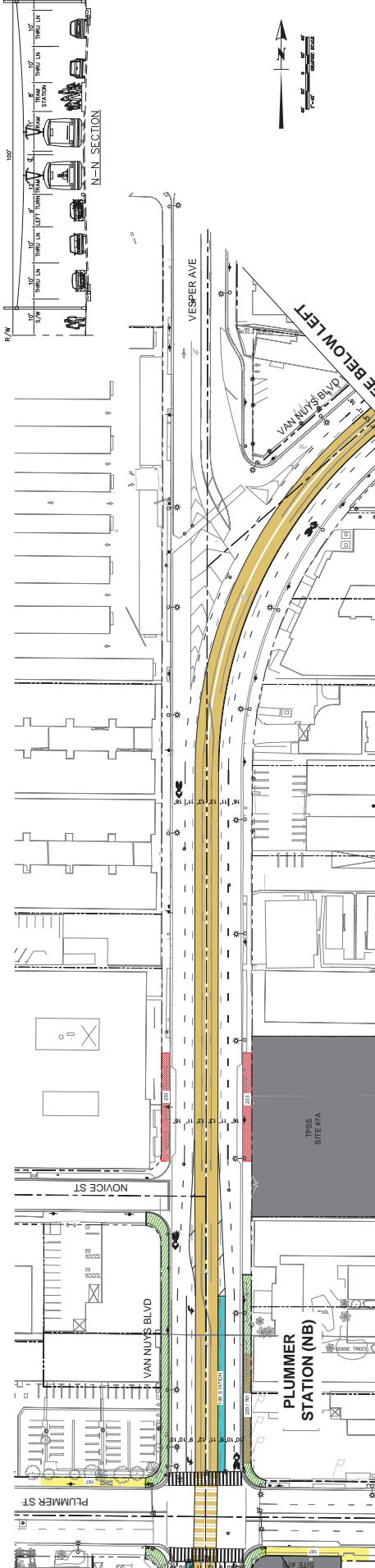
MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET ALT3-6



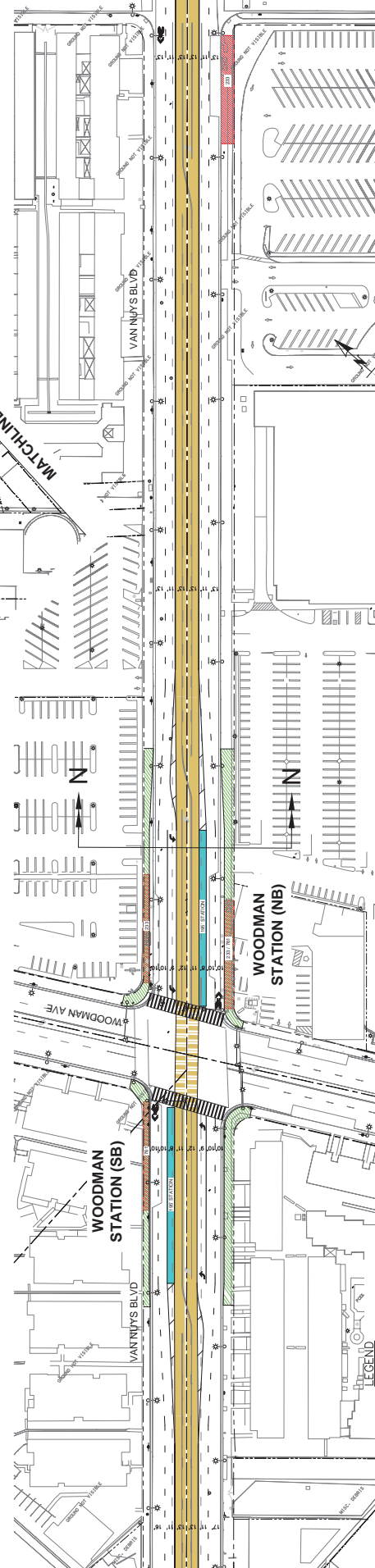
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT



MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT



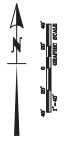
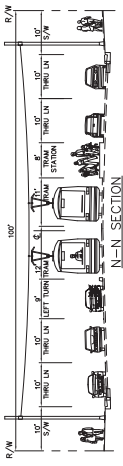
MATCHLINE - SEE SHEET ALT3-8

**KOA CORPORATION**  
**PLANNING & ENGINEERING**  
 1100 Corporate Center Drive, Suite 201  
 Irvine, CA 92614  
 Tel: (949) 260-4100 Fax: (949) 260-4700

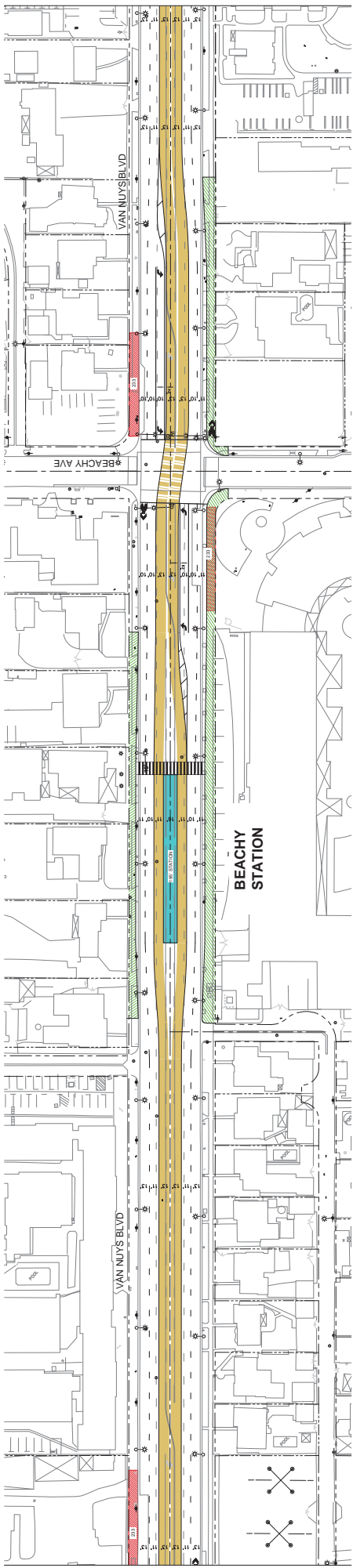
- LEGEND**
- BUS/TRAM DESIGNATED LANE
  - BUS/TRAM MIXED FLOW
  - 5' W/ MARKING OR MODING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP

# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

**METRO**  
**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR**  
 ALT3-7

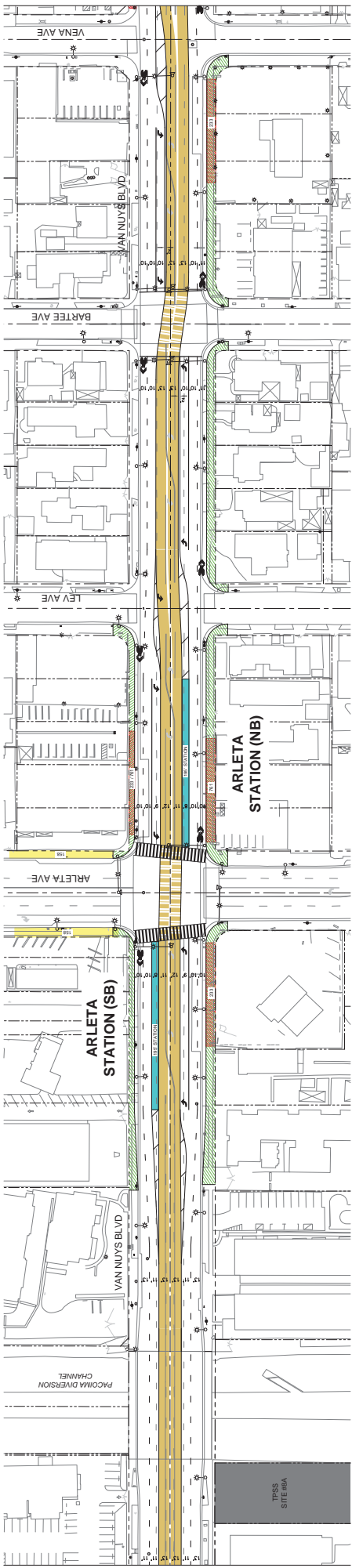


MATCHLINE - SEE BELOW LEFT



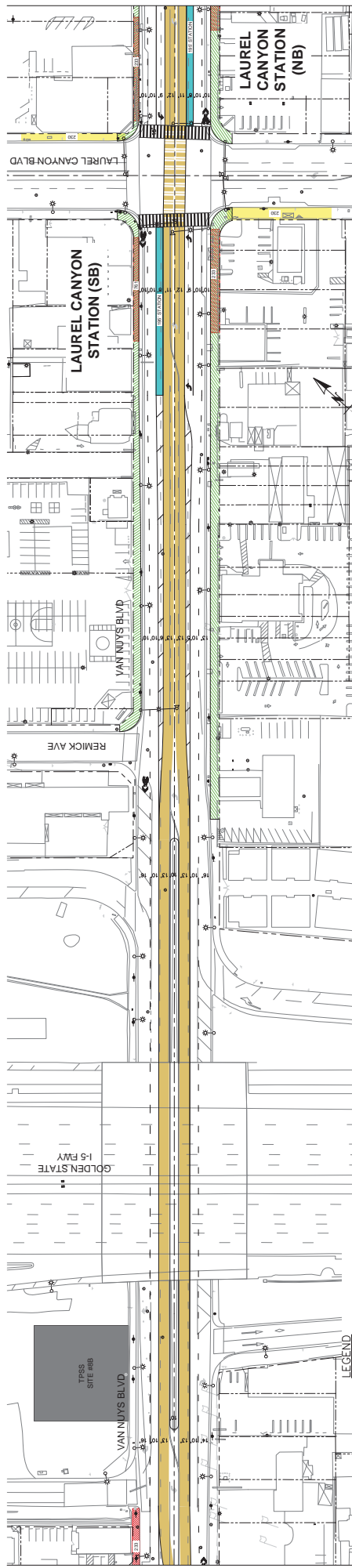
MATCHLINE - SEE SHEET ALT3-7

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET ALT3-9



MATCHLINE - SEE ABOVE RIGHT

METRO  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT3-8



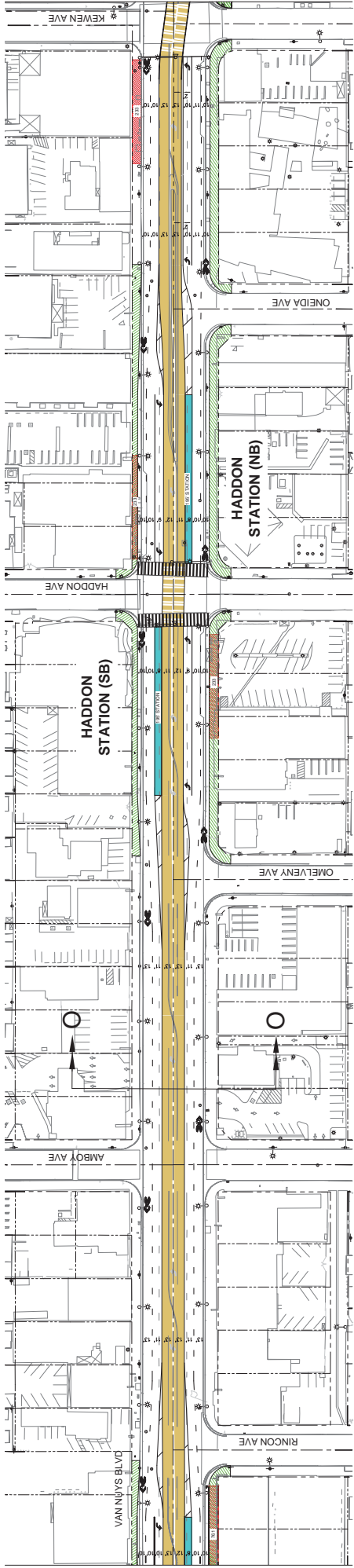
# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

- LEGEND**
- BUS/TRAM DESIGNATED LANE
  - BUS/TRAM MIXED FLOW
  - 5' W/ NARROWING OR WIDENING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP

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PLANNING & ENGINEERING  
1100 Corporate Center Drive, Suite 201  
Van Nuys, CA 91411  
Tel: (818) 250-1170 Fax: (818) 250-4708

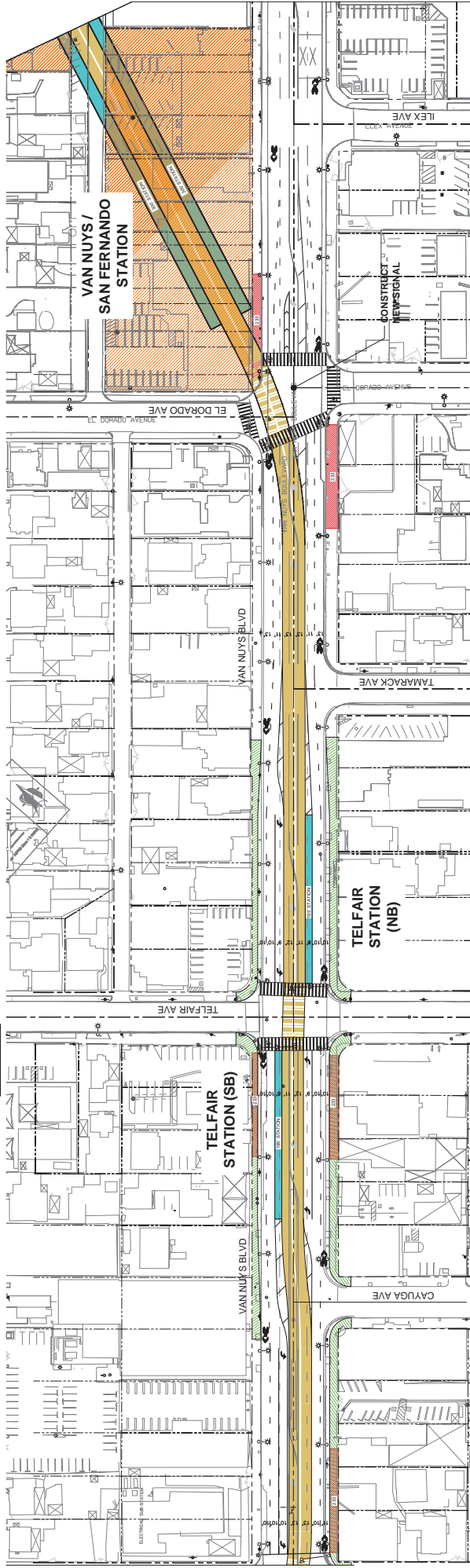
Scale: 1" = 100' (Horizontal) 1" = 10' (Vertical) Date: 05/20/2014 Project: Metro East San Fernando Valley Transit Corridor (Alt 3) - Coord. Plan 1 of 2

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE SHEET ALT3-8

MATCHLINE - SEE SHEET ALT3-10



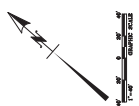
MATCHLINE - SEE ABOVE RIGHT

- LEGEND**
- BUS/BIKE DEDICATED LANE
  - BUS/BIKE MIXED FLOW
  - 5'W NARROWING OR MODING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP

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 Torrance, CA 90501  
 Tel: (310) 200-4100 Fax: (310) 200-4700

**METRO**  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 ALT3-9

# ALTERNATIVE 3 - TRAM MEDIAN RUNNING



Scale: 1" = 20' (Horizontal) 1" = 10' (Vertical) Date: 05/20/2014 Project: Metro East San Fernando Valley Transit Corridor (Alt3) - Station 3 - Design Part 2 of 2

MATCHLINE - SEE BELOW LEFT

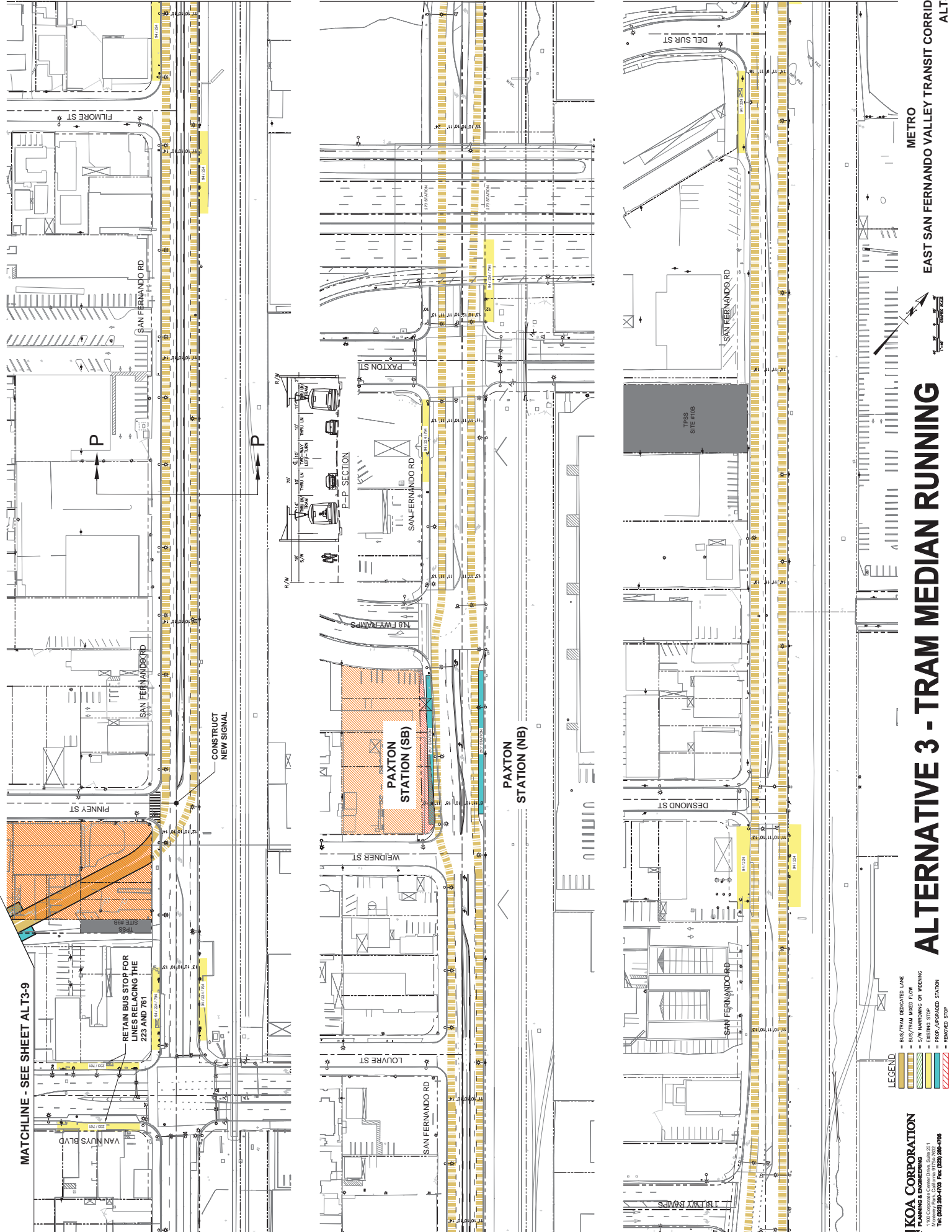
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ALT 3-11

MATCHLINE - SEE SHEET ALT3-9

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ABOVE RIGHT



RETAIN BUS STOP FOR LINES RELACING THE 223 AND 761

CONSTRUCT NEW SIGNAL

P-P SECTION

PAXTON STATION (SB)

PAXTON STATION (NB)

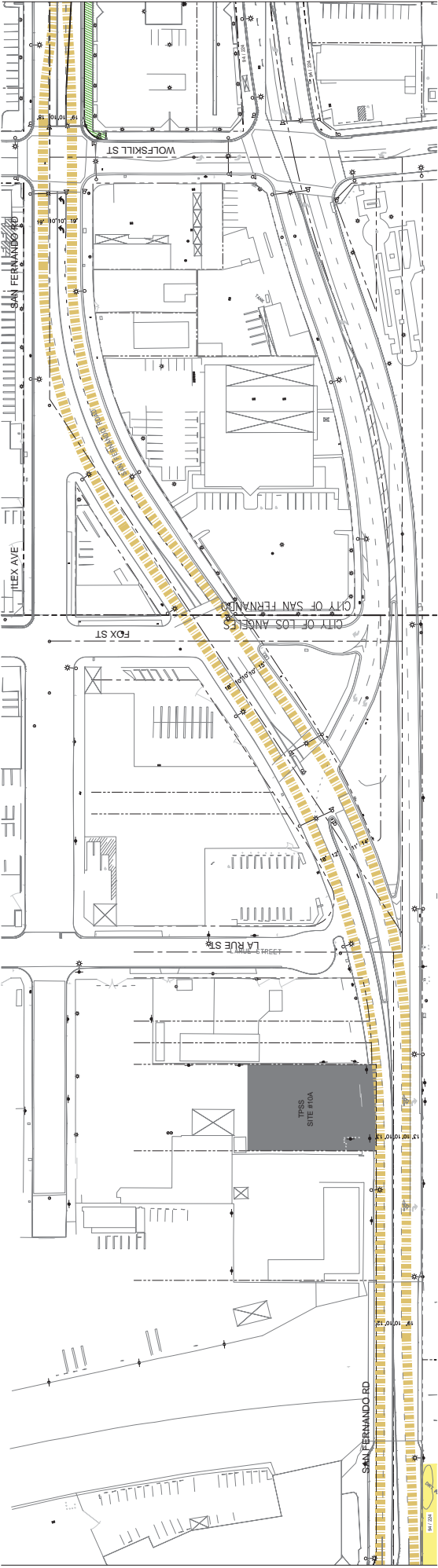
TRBS SITE #108

- LEGEND
- BUS/TRANSIT DEDICATED LANE
- BUS/TRANSIT MIXED FLOW
- 5' W. MARKING OR MODING
- EXISTING STOP
- PROP./UPGRADED STATION
- REMOVED STOP

# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

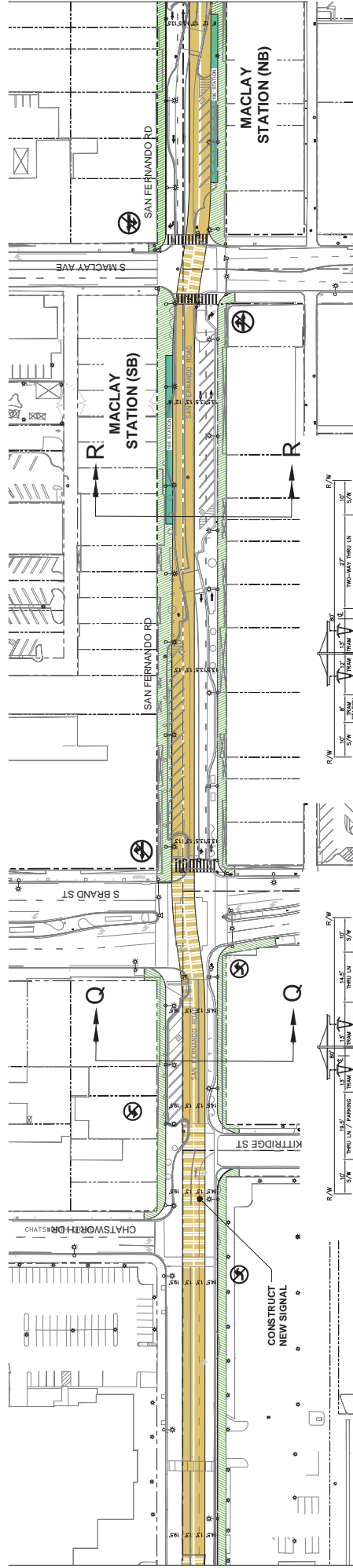


MATCHLINE - SEE BELOW LEFT



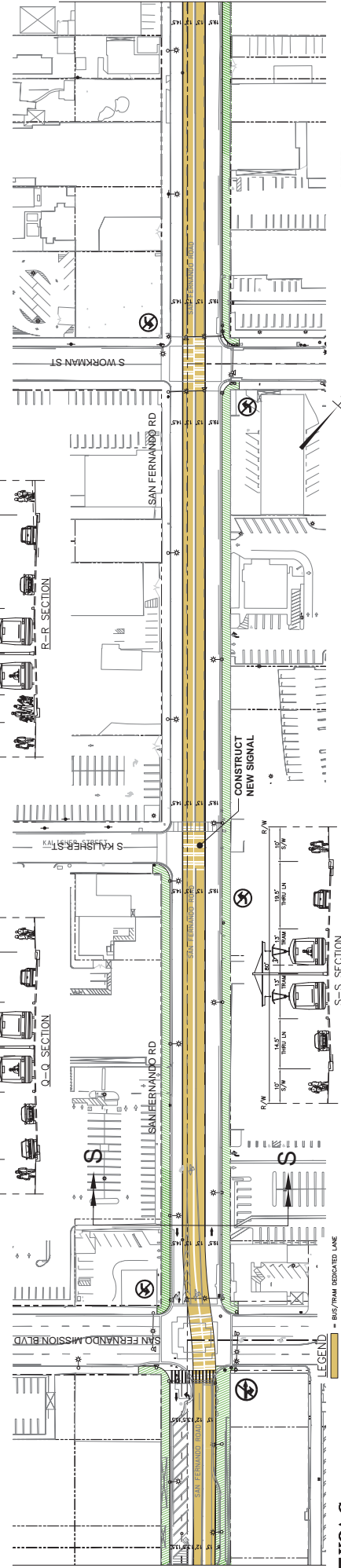
MATCHLINE - SEE ALT-10

MATCHLINE - SEE BELOW LEFT



MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE ALT-12



MATCHLINE - SEE ABOVE RIGHT

METRO  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
ALT-3-11

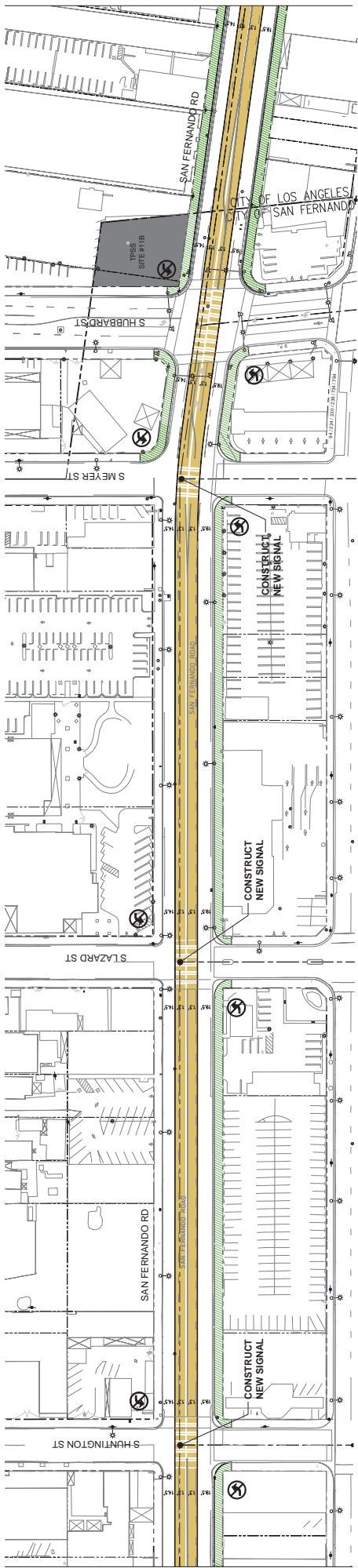
# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

**KOIA CORPORATION**  
PLANNING & ENGINEERING  
1100 Corporate Center Drive, Suite 201  
Tel: (925) 280-1170 Fax: (925) 280-1708

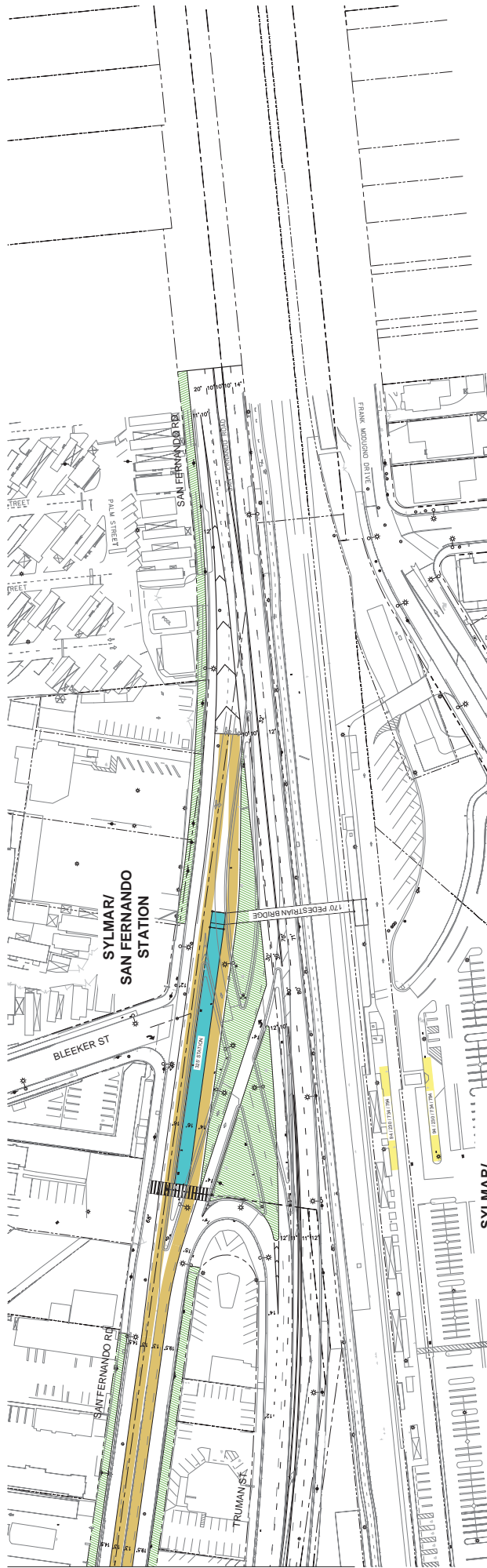
- LEGEND
- [Symbol] BUS/BIKE DEDICATED LANE
- [Symbol] BUS/BIKE MIXED FLOW
- [Symbol] 5' W/ NARROWING OR WIDENING
- [Symbol] EXISTING STOP
- [Symbol] PROP./UPGRADED STATION
- [Symbol] REMOVED STOP



MATCHLINE - SEE BELOW LEFT



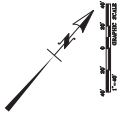
MATCHLINE - SEE ABOVE RIGHT



SYLMAR/  
SAN FERNANDO  
METROLINK STATION

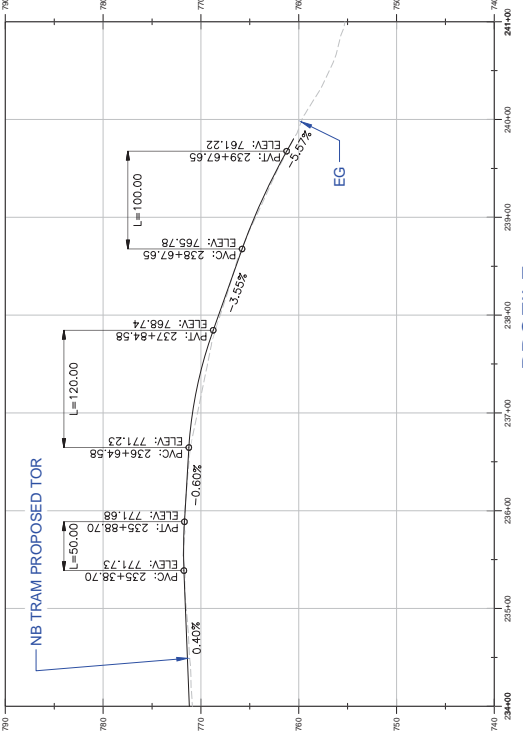
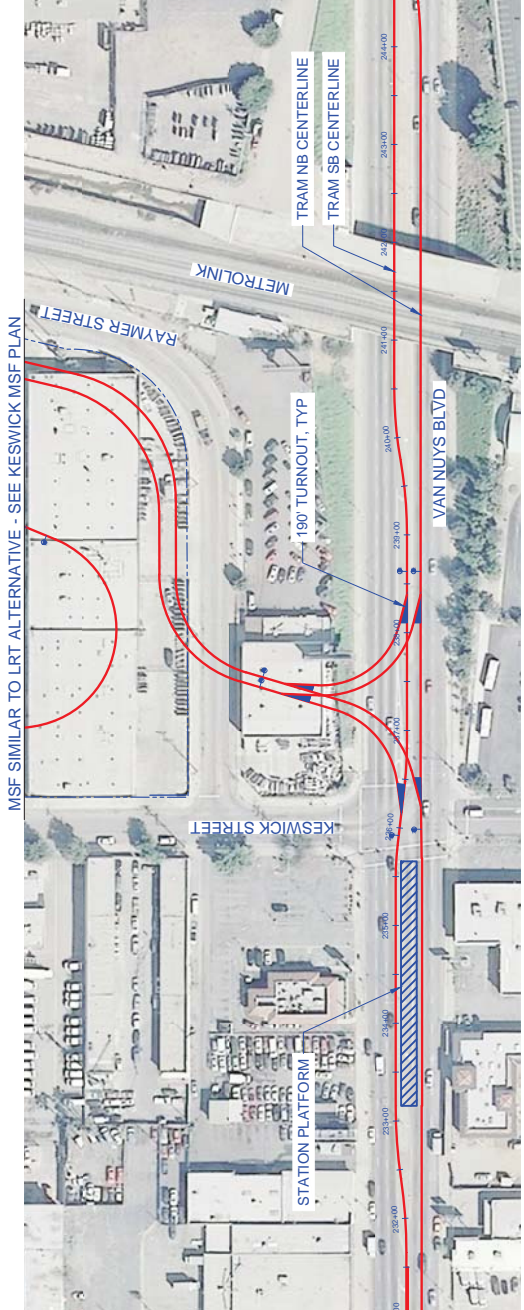
- LEGEND**
- BUS/TRANSIT LANE
  - BUS/TRANSIT MIXED FLOW
  - 5'W NARROWING OR MODING
  - EXISTING STOP
  - PROP./UPGRADED STATION
  - REMOVED STOP

**KOA CORPORATION**  
**PLANNING & ENGINEERING**  
 1100 Corporate Center Drive, Suite 201  
 Los Angeles, CA 90007  
 Tel: (323) 290-4100 Fax: (323) 290-4700



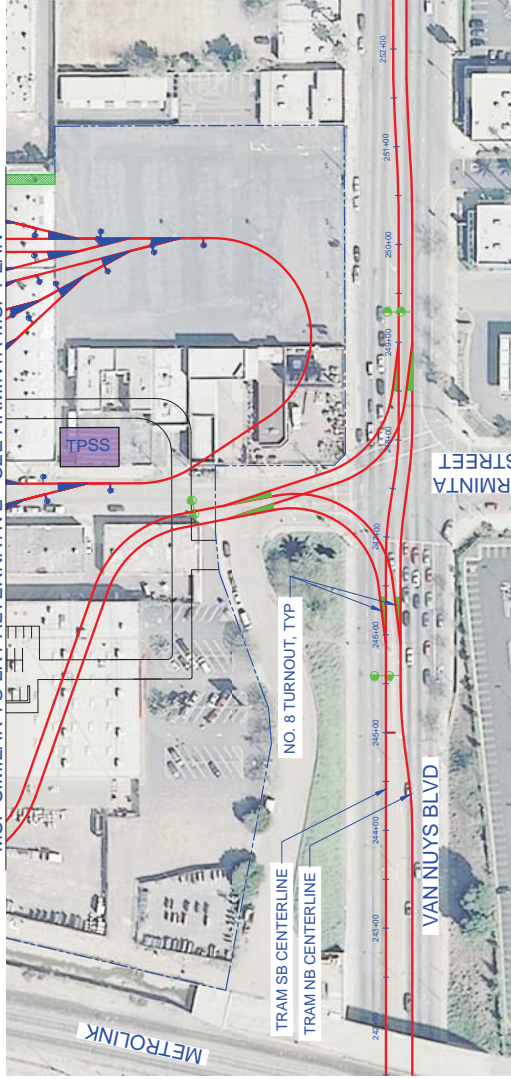
# ALTERNATIVE 3 - TRAM MEDIAN RUNNING

San Fernando Valley May 2014 - 8/10/14  
 LHM Project No. 2014-0101 - 8/10/14  
 Revised By: 08/08/2014  
 Drawing: 02/07/2014  
 Title: EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR - ALTERNATIVE 3 - TRAM MEDIAN RUNNING - ALT3-12

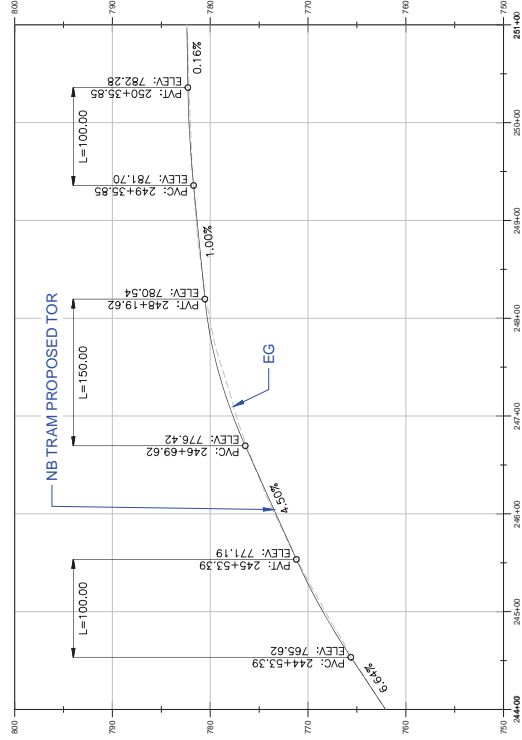


CONTRACT NO. PS-4370-2622	EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR TRAM ALTERNATIVE MAINTENANCE FACILITY KESWICK OPTION - MSF CONNECTION TRACKS PLAN & PROFILE	INDEX NUMBER
DRAWING NO. MSF-B 0		
SCALE HORIZ: 1"=60' VERT: 1"=6'	PROJECT MANAGER STV KOA CORPORATION PLANNING & ENGINEERING 21550 Van Nuys Blvd, Suite 200 Van Nuys, California 91411 Tel: (818) 250-1100 Fax: (818) 250-4105	SHEET
SHEET NO. 1		
DESIGNED BY S. MADON S. MADON S. MADON	SCALES 1"=40' 1"=80' 1"=80'	
CHECKED BY A. SPOL A. SPOL		
DATE 12/17/2014		
REV	DATE	BY
		APP
		REV NO
		EXPIRES
		SCALE
		DESCRIPTION

MSF SIMILAR TO LRT ALTERNATIVE - SEE ARMINTA MSF PLAN

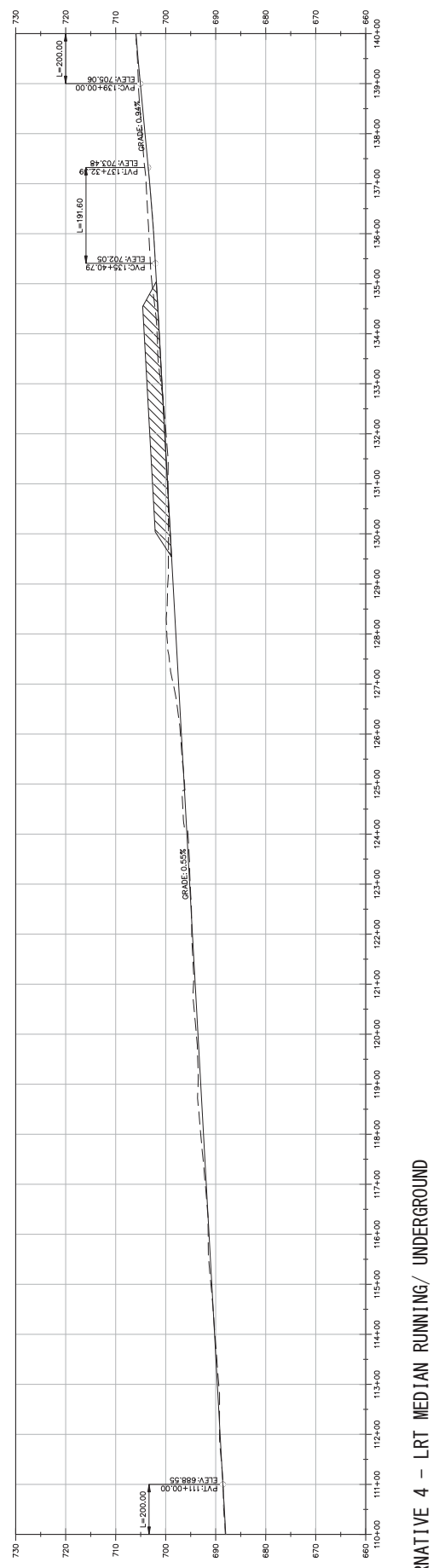
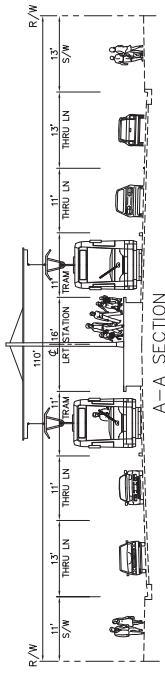
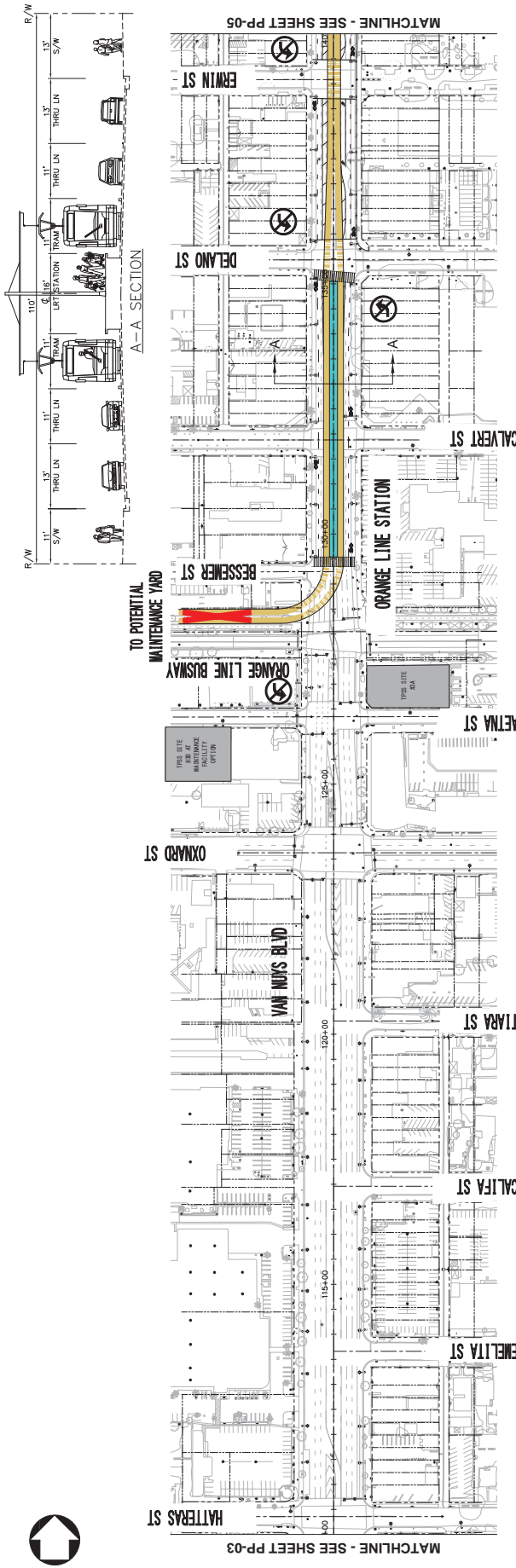


PLAN



PROFILE

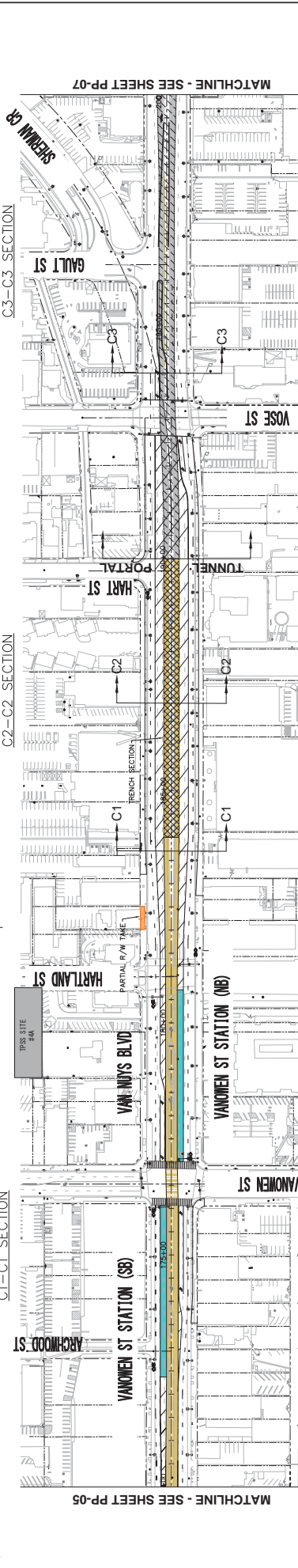
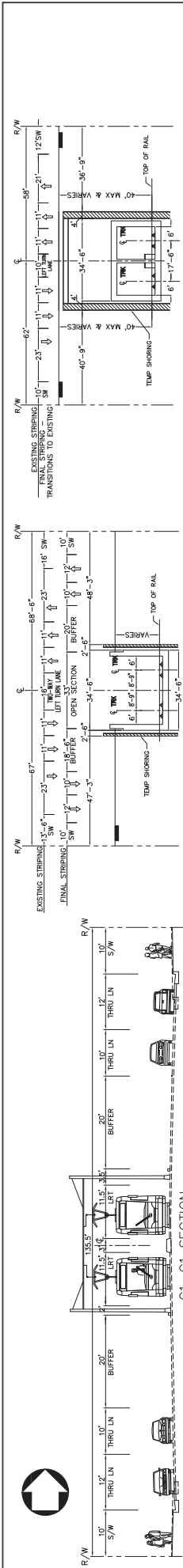
DESIGNED BY S. WALLON CHECKED BY S. WALLON DATE 09/27/2014		PROJECT MANAGER STV PLANNING & ENGINEERING 10000 Wilshire Blvd, Suite 100 Los Angeles, CA 90024 Tel: (310) 261-1100 Fax: (310) 261-1105		CONTRACT NO. PS-4370-2622 DRAWING NO. 0 SCALE HORIZ: 1"=60' VERT: 1"=6' SHEET NO. 	
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR TRAM ALTERNATIVE MAINTENANCE FACILITY ARMINTA ST - MSF CONNECTION TRACKS PLAN & PROFILE		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR TRAM ALTERNATIVE MAINTENANCE FACILITY ARMINTA ST - MSF CONNECTION TRACKS PLAN & PROFILE		INDEX NUMBER 	
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT		SCALES HORIZ: 1"=60' VERT: 1"=6'		SHEET	
REV	DATE	BY	APP	REV NO	DESCRIPTION
					SCALE, HORIZ
					EXPRES



**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

<p><b>DESIGNED BY</b></p> <p><b>DRAWN BY</b></p> <p><b>CHECKED BY</b></p> <p><b>IN CHARGE</b></p> <p><b>DATE</b></p> <p><b>DESCRIPTION</b></p> <p><b>SCALE</b></p> <p><b>SCALE</b></p>	<p><b>CONTRACT NO.</b> PS-4370-2622</p> <p><b>DRAWING NO.</b> PP-04</p> <p><b>SCALE</b> HORIZ: 1"=100' VERT: 1"=10'</p> <p><b>SHEET NO.</b></p>	<p><b>PROJECT MANAGER</b> MARK C. TAYLOR</p> <p><b>SCALE</b> HORIZ: 1"=100' VERT: 1"=10'</p> <p><b>SHEET</b></p> <p><b>INDEX NUMBER</b></p>
<p><b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b></p> <p><b>KOA CORPORATION</b> PLANNING &amp; ENGINEERING 12500 Van Nuys Blvd, Suite 200 Van Nuys, CA 91411 Tel: (818) 252-1100 Fax: (818) 252-1108</p>		
<p><b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN &amp; PROFILE STA 110+00 TO STA 140+00</b></p>		





**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  
**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT**

**KOA CORPORATION**  
 PLANNING & ENGINEERING  
10000 Vanowen Blvd, Suite 200  
 Vanowen Park, California 91325  
 Tel: (818) 250-1100 Fax: (818) 250-1108

**DESIGN SPEED = 50MPH**

**CONTRACT NO:** PS-4370-2622  
**DRAWING NO:** PP-06A  
**SCALE:** HORIZ: 1"=100'  
 VERT: 1"=5'

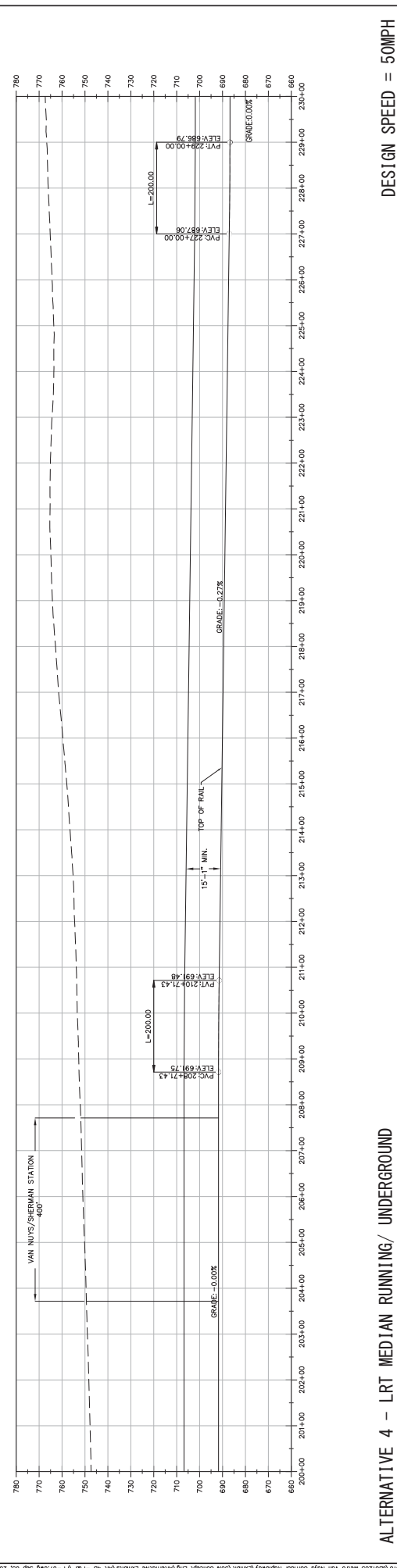
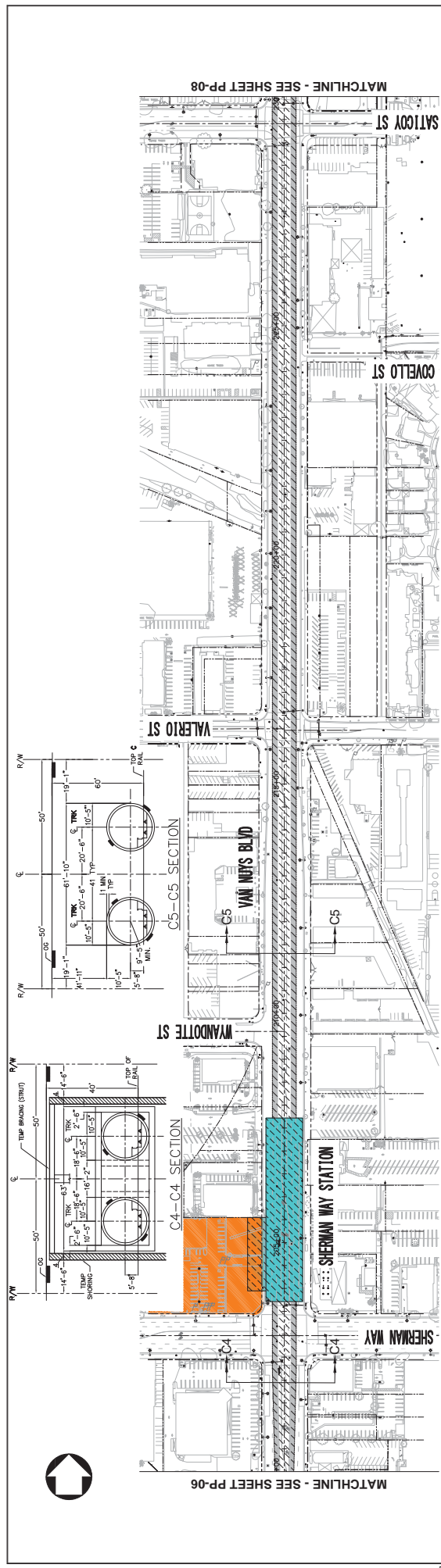
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REV	DATE	BY	APP	REQ NO	ISSUES	SCALE	HOLDER	DESCRIPTION

**PROJECT MANAGER:** [Name]  
**SCALE:** HORIZ: 1"=100'  
 VERT: 1"=10'

**SHEET INDEX NUMBER**

**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**



**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

**DESIGN SPEED = 50MPH**

**CONTRACT NO.** PS-4370-2622

**DRAWING NO.** PP-07A

**SCALE** HORIZ: 1"=100'  
VERT: 1"=5'

**PROJECT MANAGER** [Name]

**SCALE** HORIZ: 1"=100'  
VERT: 1"=10'

**INDEX NUMBER** [Number]

**SHEET** [Number]

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT**

**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR ALTERNATIVE**

**PLAN & PROFILE**

**STA 200+00 TO STA 230+00**

**OPTION A**

**KOA CORPORATION**

**PLANNING & ENGINEERING**

**11000 Van Nuys Blvd, Suite 300**

**Van Nuys, CA 91411**

**TEL: (818) 252-1100 FAX: (818) 252-1108**

REV	DATE	BY	APP	REV NO	DESCRIPTION	SCALE	ISSUER

**DESIGNED BY** [Name]

**DRAWN BY** [Name]

**CHECKED BY** [Name]

**IN CHARGE** [Name]

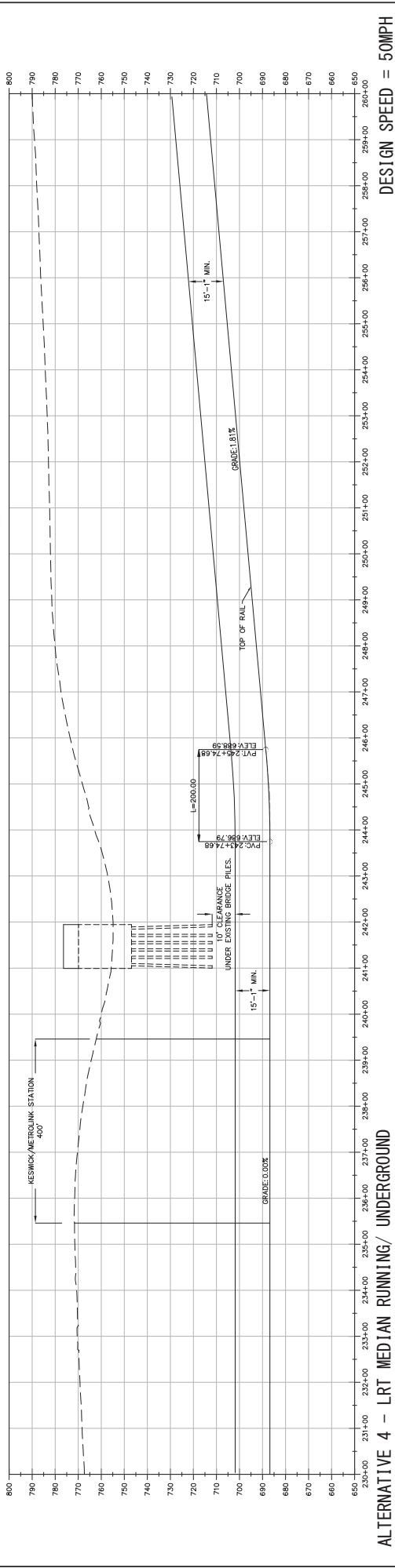
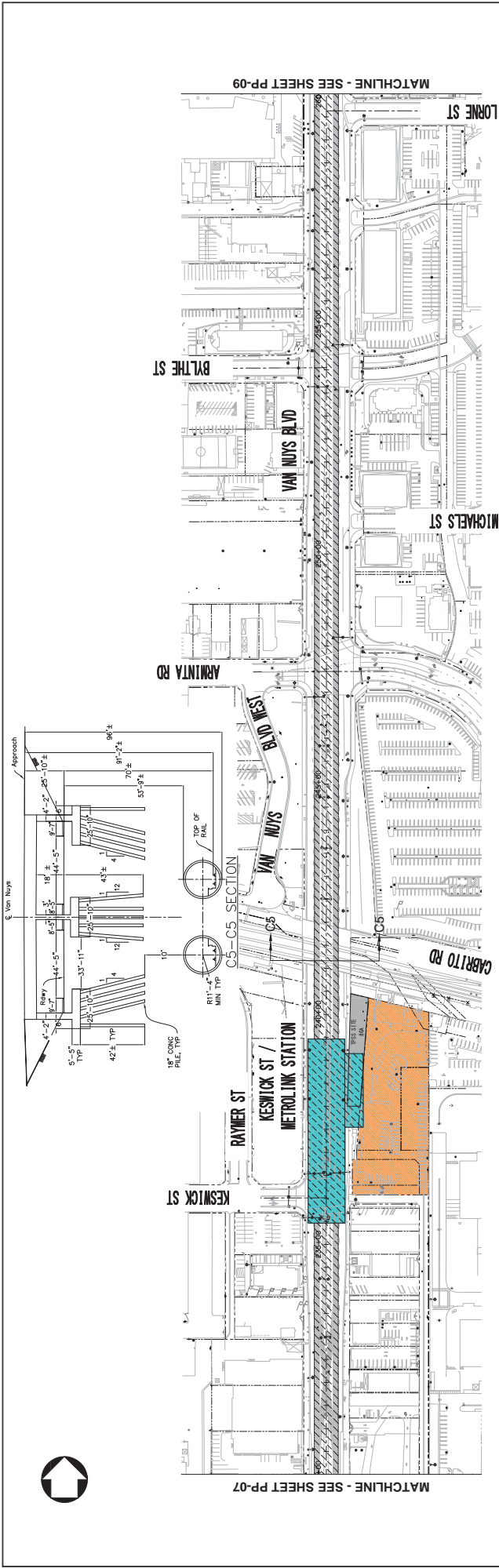
**DATE** [Date]

**ORIGINAL MAP SCALE** 1"=200'

**VERTICAL SCALE** 1"=10'

**HORIZONTAL SCALE** 1"=100'



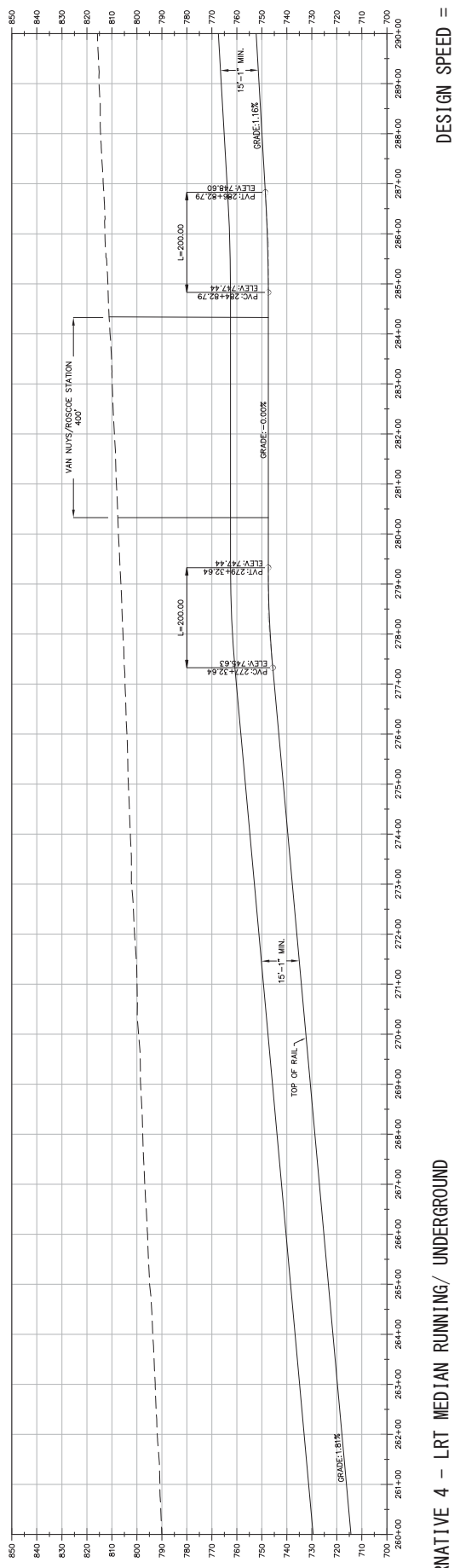
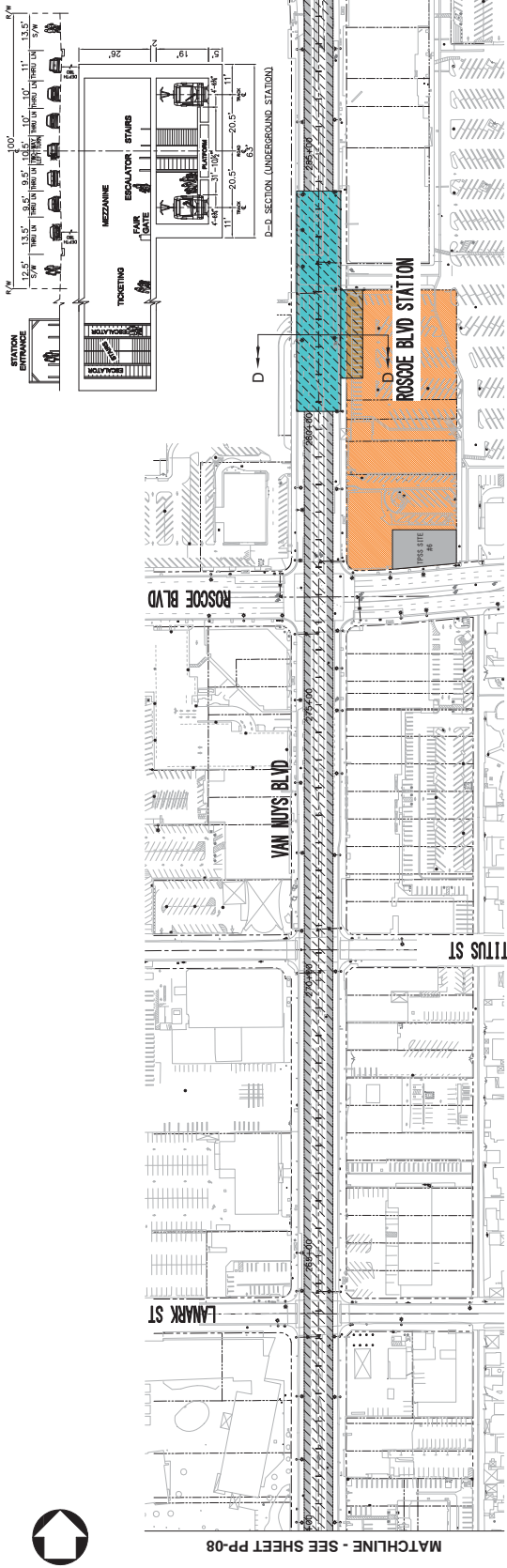


DESIGN SPEED = 50MPH

CONTRACT NO. PS-4370-2622 DRAWING NO. PP-08A SCALE: HORIZ. 1"=100' VERT. 1"=5'		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 230+00 TO STA 260+00 OPTION A	
PROJECT MANAGER SCALE: HORIZ. 1"=100' VERT. 1"=5'		INDEX NUMBER SHEET	
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT		KOA CORPORATION PLANNING & ENGINEERING 10000 Van Nuys Blvd, Suite 100 Van Nuys, CA 91411 Tel: (818) 250-1000 Fax: (818) 250-1008	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	REVISION NO. DATE BY APP. REV. NO. DATE BY APP.	SECTION C-407 ORIGINAL MAP SCALE 1"=500'	SCALE HORIZ. 1"=100' VERT. 1"=5'

ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

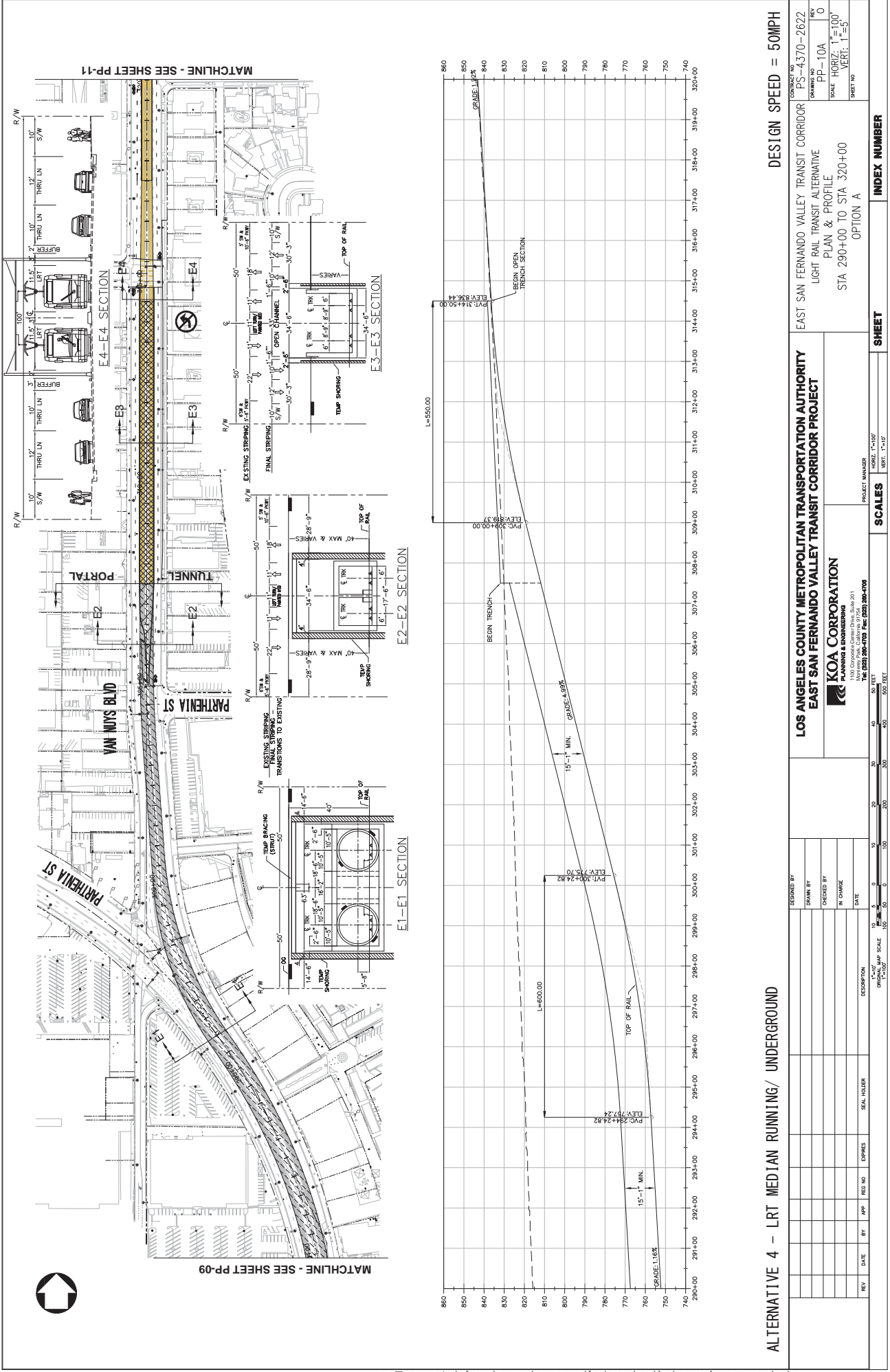




**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

**DESIGN SPEED = 50MPH**

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> PLANNING & ENGINEERING <small>10000 Park Colorado Blvd, Suite 301          Van Nuys, CA 91411          Tel: (818) 250-1000 Fax: (818) 250-1008</small>		PROJECT MANAGER <small>MARK T. COFF</small> VERT. 1"=10'	<b>SHEET</b> INDEX NUMBER																							
CONTRACT NO. PS-4370-2622	DRAWING NO. PP-09A	SCALE HORIZ. 1"=100' VERT. 1"=5'	EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 260+00 TO STA 290+00 OPTION A																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>APP</th> <th>REQ NO</th> <th>DWGS</th> <th>SEC. HOLDER</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV	DATE	BY	APP	REQ NO	DWGS	SEC. HOLDER								<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> </tr> <tr> <td>CHECKED BY</td> <td>IN CHARGE</td> </tr> <tr> <td>DATE</td> <td></td> </tr> </table>	DESIGNED BY	DRAWN BY	CHECKED BY	IN CHARGE	DATE		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESCRIPTION</td> <td>SCALE</td> </tr> <tr> <td>"C"=10'</td> <td>1"=50'</td> </tr> <tr> <td>ORIGINAL MAP SCALE</td> <td>1"=50'</td> </tr> </table>	DESCRIPTION	SCALE	"C"=10'	1"=50'	ORIGINAL MAP SCALE	1"=50'
REV	DATE	BY	APP	REQ NO	DWGS	SEC. HOLDER																						
DESIGNED BY	DRAWN BY																											
CHECKED BY	IN CHARGE																											
DATE																												
DESCRIPTION	SCALE																											
"C"=10'	1"=50'																											
ORIGINAL MAP SCALE	1"=50'																											



**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

**DESIGN SPEED = 50MPH**

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT**

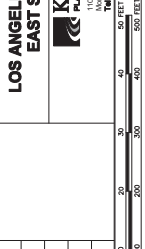
**KOA CORPORATION**  
PLANNING & ENGINEERING  
12220 Van Noy Blvd, Suite 200  
Van Nuys, CA 91411  
Tel: (818) 250-4100 Fax: (818) 250-4108

CONTRACT NO. PS-4370-2622  
DRAWING NO. PP-10A  
SCALE: HORIZ. 1"=100'  
VERT. 1"=5'

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
LIGHT RAIL TRANSIT ALTERNATIVE  
PLAN & PROFILE  
STA 290+00 TO STA 320+00  
OPTION A

REV.	DATE	BY	APP	REQ NO	DESIGN	SCALE	HOLDER	DESCRIPTION

PROJECT MANAGER  
SCALE: HORIZ. 1"=100'  
VERT. 1"=5'



DESIGNED BY	DRAWN BY	CHECKED BY	IN CHARGE	DATE

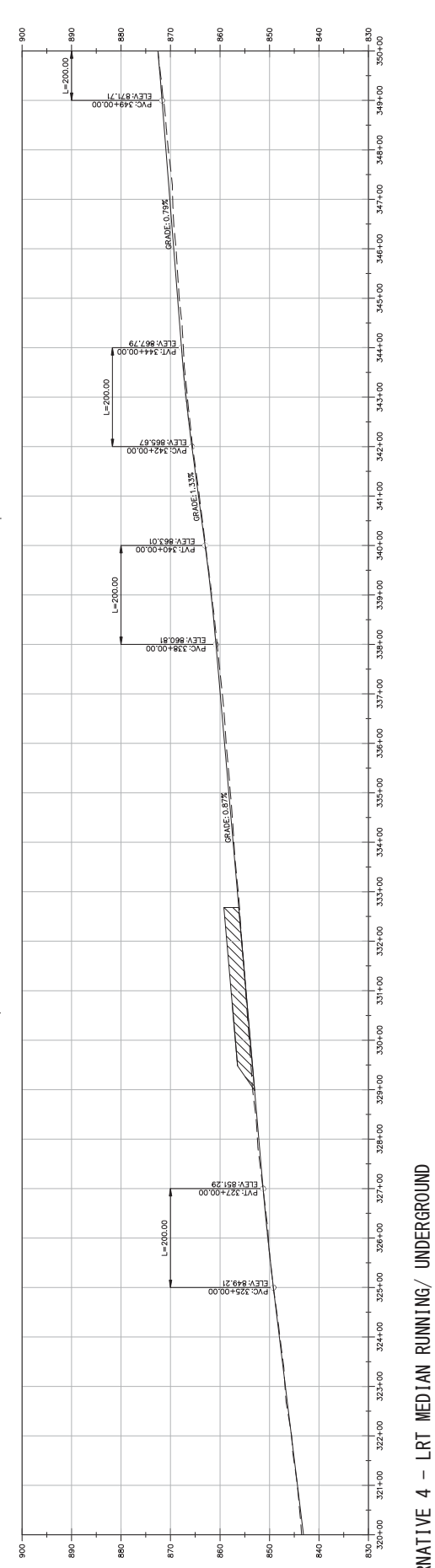
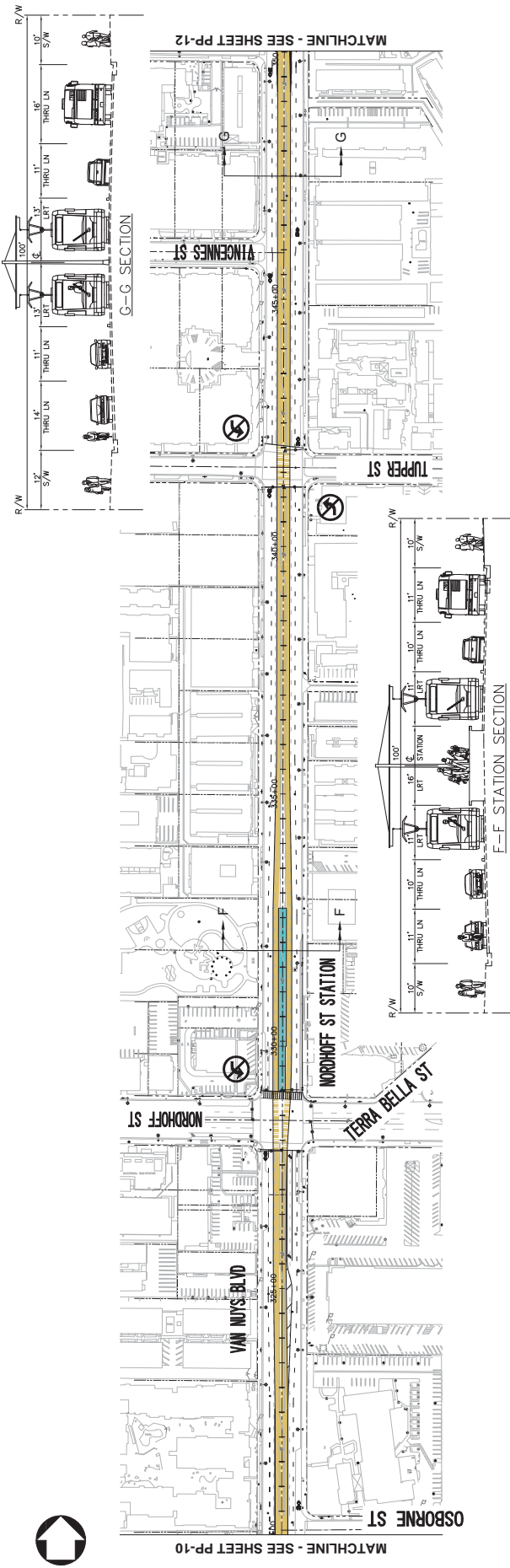
**SHEET**

**SCALES**

**INDEX NUMBER**

**SHEET**

**SHEET**



### ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

REV	DATE	BY	APP	REV NO	ISSUES	SEC. HOLDER	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	IN CHARGE	DATE	DESCRIPTION

PROJECT MANAGER	PROJECT ENGINEER

SCALE	HORIZONTAL: 1" = 100'	VERTICAL: 1" = 10'
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ORIGINAL MAP SCALE	1" = 200'
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SCALE	SHEET	INDEX NUMBER
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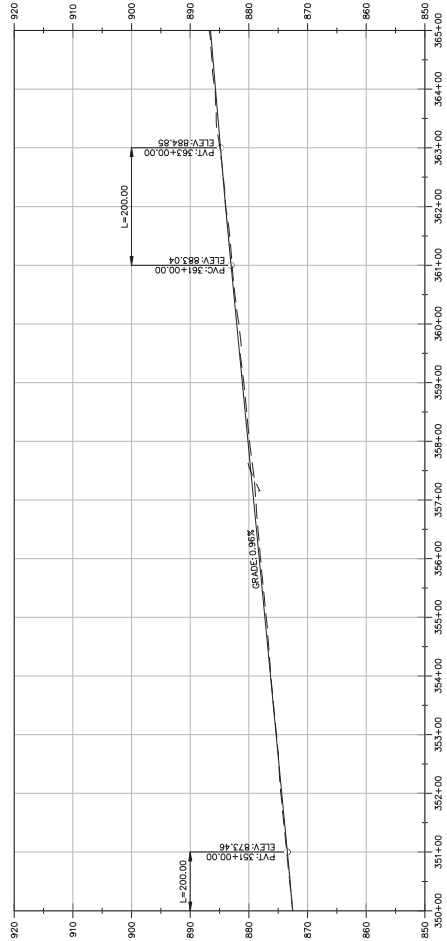
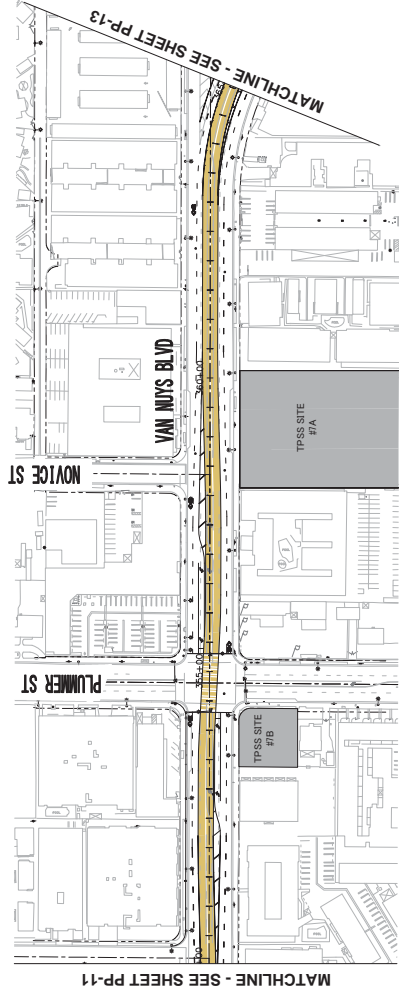
  

CONTRACT NO.	PS-4370-2622
DRAWING NO.	PP-11
SCALE	HORIZ: 1" = 100'
VERT: 1" = 10'	
SHEET NO.	

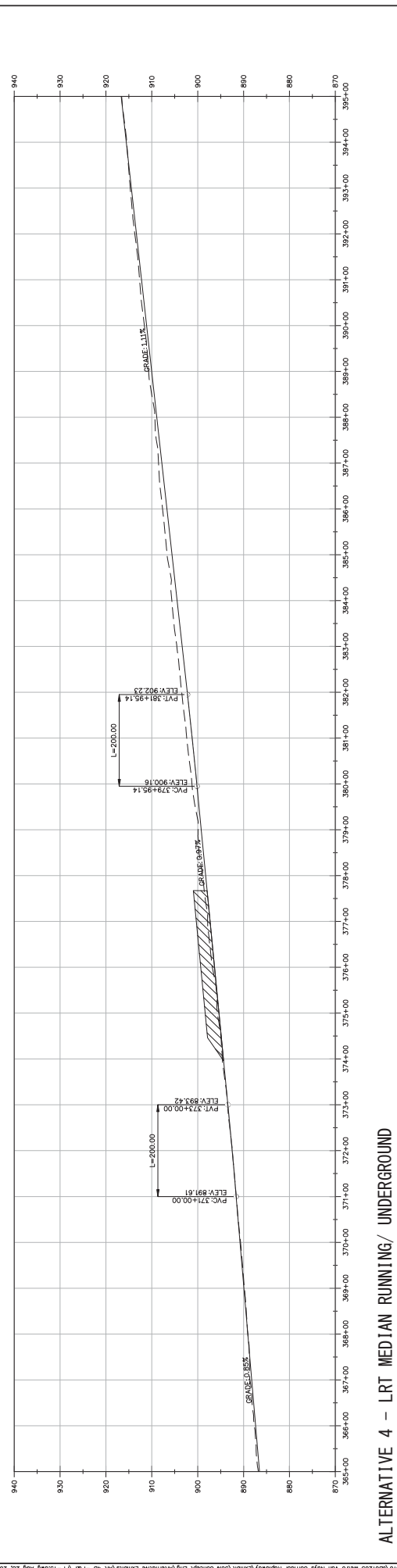
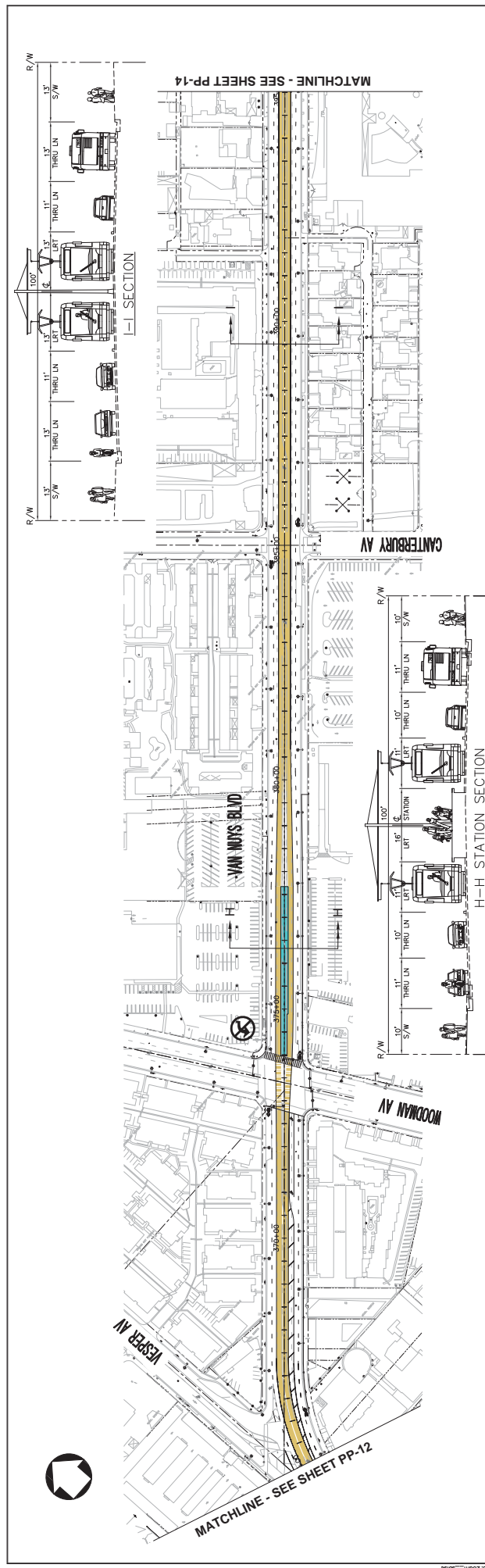
**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  
**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT**  
**PLANNING & ENGINEERING**  
**KOA CORPORATION**  
13200 Van Nuys Blvd., Suite 300, Van Nuys, CA 91411  
TEL: (818) 252-2800 FAX: (818) 252-4108

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ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

CONTRACT NO. PS-4370-2622 DRAWING NO. PP-12 SCALE: HORIZ: 1"=100' VERT: 1"=10' SHEET NO. 0		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 350+00 TO STA 365+00		<b>INDEX NUMBER</b>	
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT		<b>PROJECT MANAGER</b> KOA CORPORATION PLANNING & ENGINEERING 14000 Plunkett, Culver City, CA 90230 Tel: (310) 252-1000 Fax: (310) 252-1008		<b>SCALES</b> HORIZ: 1"=100' VERT: 1"=10'	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	SECTION SHEET HOLDER DATE DATE DATE	ORIGINAL MAP SCALE 1"=100'	0 10 20 30 40 50 60 70 80 90 100 FEET	0 10 20 30 40 50 60 70 80 90 100 FEET	<b>SHEET</b>



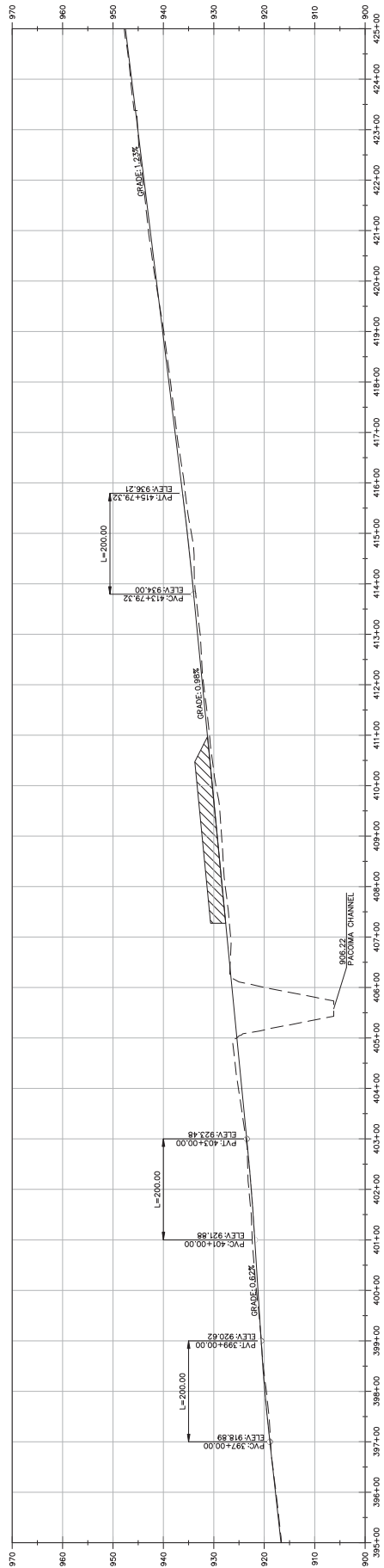
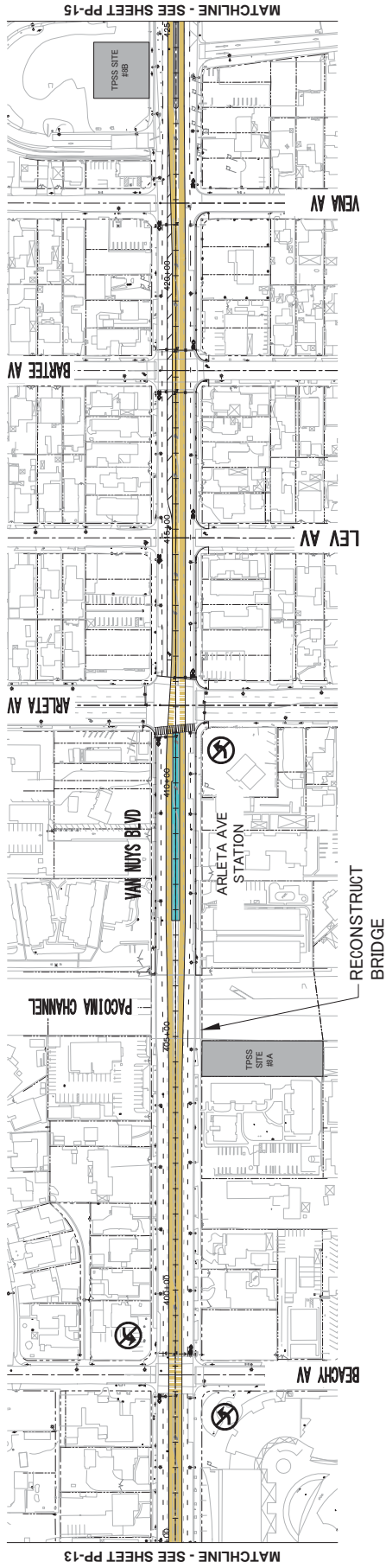
**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

DESIGNED BY	DRAWN BY	REVISION	DATE	DESCRIPTION	SCALE	SECTION	SCALE	INDEX NUMBER
					1"=100'		1"=100'	
CHECKED BY	IN CHARGE							
REV	DATE	BY	APP	REASON	SCALE	SECTION	SCALE	INDEX NUMBER

CONTRACT NO: PS-4370-2622  
 DRAWING NO: PP-13  
 SCALE: 1"=100'  
 SHEET NO: 0  
 HORIZ: 1"=100'  
 VERT: 1"=10'  
 PROJECT MANAGER: [Name]  
 PROJECT: EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 LIGHT RAIL TRANSIT ALTERNATIVE  
 PLAN & PROFILE  
 STA 365+00 TO STA 395+00

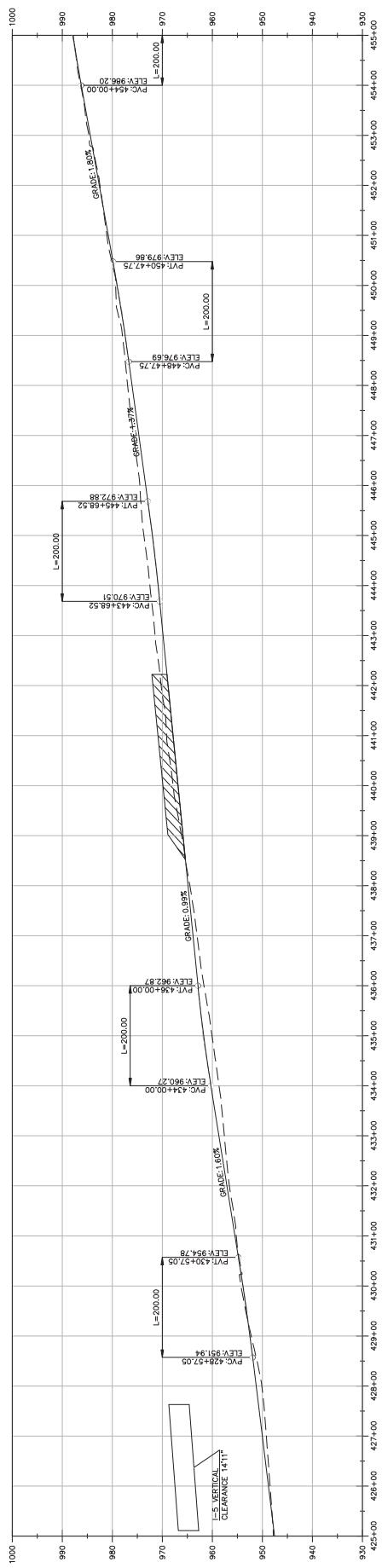
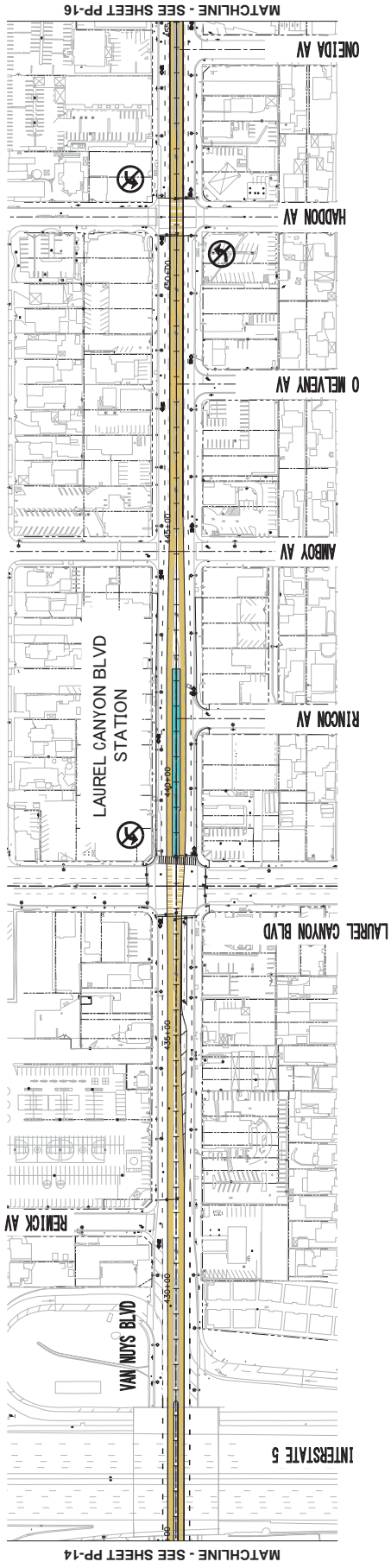
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT  
**KOA CORPORATION**  
 PLANNING & ENGINEERING  
 17000 Van Nuys Blvd, Suite 200  
 Van Nuys, CA 91411  
 Tel: (818) 250-1100 Fax: (818) 250-1108

CADD PROJECT FILE NAME: Y:\2010\801205 Metro Van Nuys Center Rpt\pp\c\shh\1305 Concept Eng\Alternative Exhibit\13-48-Plan-PP-13.dwg Aug 28, 2014 8:20am...\_jshh



ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

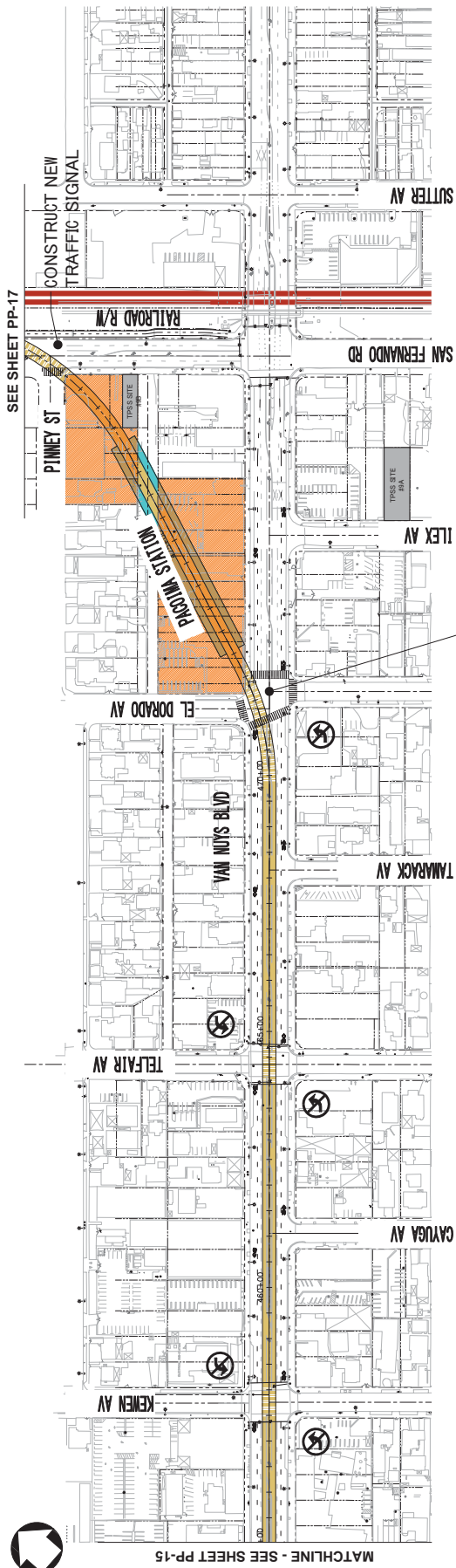
DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION		SCALE		HOLDER		DATE		REV	
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY          EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          10000 Van Nuys Blvd., Suite 100          Van Nuys, CA 91411          Tel: (818) 252-1100 Fax: (818) 252-1108</p>										<p>PROJECT MANAGER          NAME: T-107          VERT: 1"=10'</p>		<p>INDEX NUMBER          SHEET</p>							
<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR          LIGHT RAIL TRANSIT ALTERNATIVE          PLAN &amp; PROFILE          STA 395+00 TO STA 425+00</p>										<p>CONTRACT NO          PS-4370-2622</p>		<p>DRAWING NO          PP-14</p>		<p>SCALE          HORIZ: 1"=100'          VERT: 1"=10'</p>		<p>SHEET NO          0</p>			



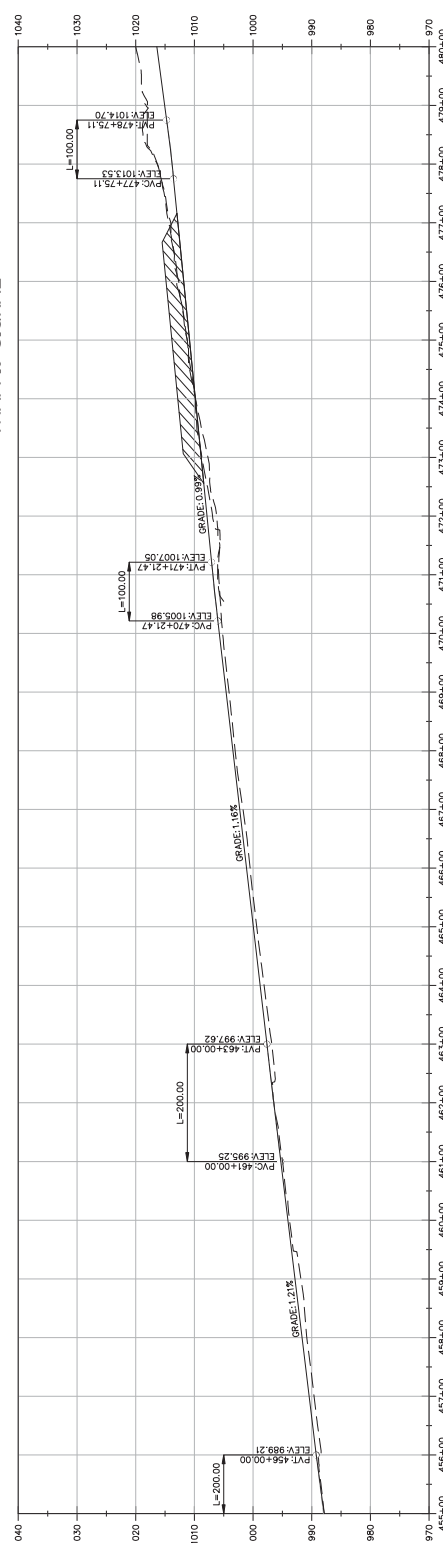
ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY	DRAWN BY	CONTRACT NO.	PS-4370-2622
CHECKED BY	TR CHANGE	DRAWING NO.	PP-15
DATE	DATE	SCALE	HORIZ: 1"=100' VERT: 1"=10'
DESCRIPTION	SEC. HOLDER	SHEET NO.	0
DWGS	DWGS	LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 425+00 TO STA 455+00	
APP	APP		
REV	DATE	BY	INDEX NUMBER
ORIGINAL MAP SCALE 1"=200' ORIGINAL PLAN SCALE 1"=100'		PROJECT MANAGER MARK T. BOYD MARK T. BOYD	SHEET 0
PROJECT MANAGER MARK T. BOYD MARK T. BOYD		SCALES HORIZ: 1"=100' VERT: 1"=10'	SHEET NUMBER 0



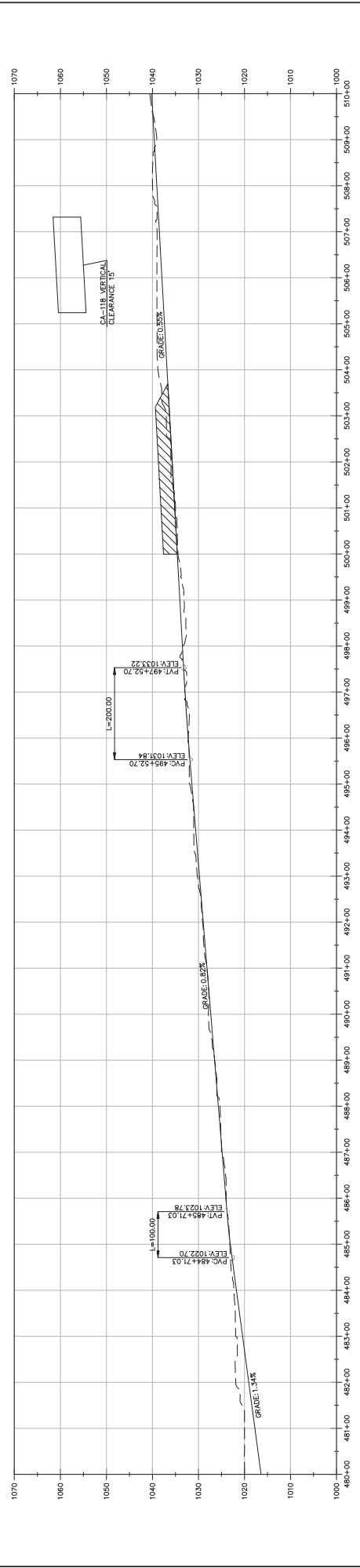
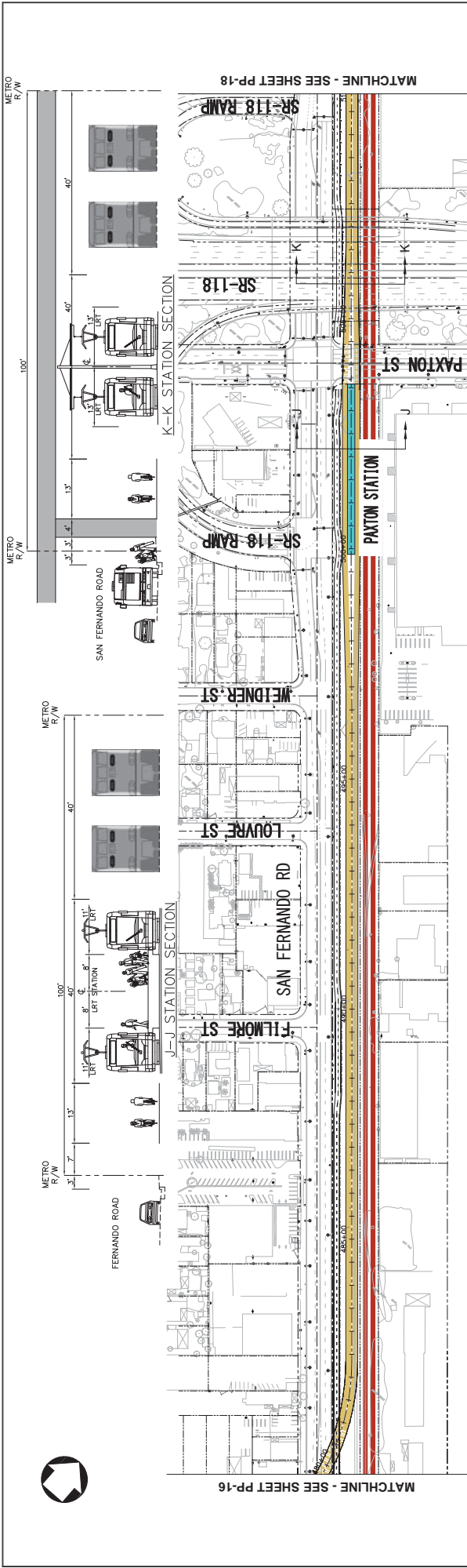


CONSTRUCT NEW TRAFFIC SIGNAL



ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE		PROJECT MANAGER PROJECT NO. SHEET NO.	
REVISIONS NO.   DATE   BY   APP   REASON		CONTRACT NO. PS-4370-2622 DRAWING NO. PP-16 SCALE: HORIZ. 1"=100' VERT. 1"=10' SHEET NO.	
DESCRIPTION ORIGINAL MAP SCALE 1"=200' SCALE: HORIZ. 1"=100' VERT. 1"=10'		LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 455+00 TO STA 480+00	
KOA CORPORATION PLANNING & ENGINEERING 10000 Park Center Rd, Suite 300 Los Angeles, CA 90045 Tel: (818) 250-2600 Fax: (818) 250-4008		INDEX NUMBER SHEET	



ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION	
REV	DATE	BY	APP	REV NO	DPWES	SEA	WOLVER				

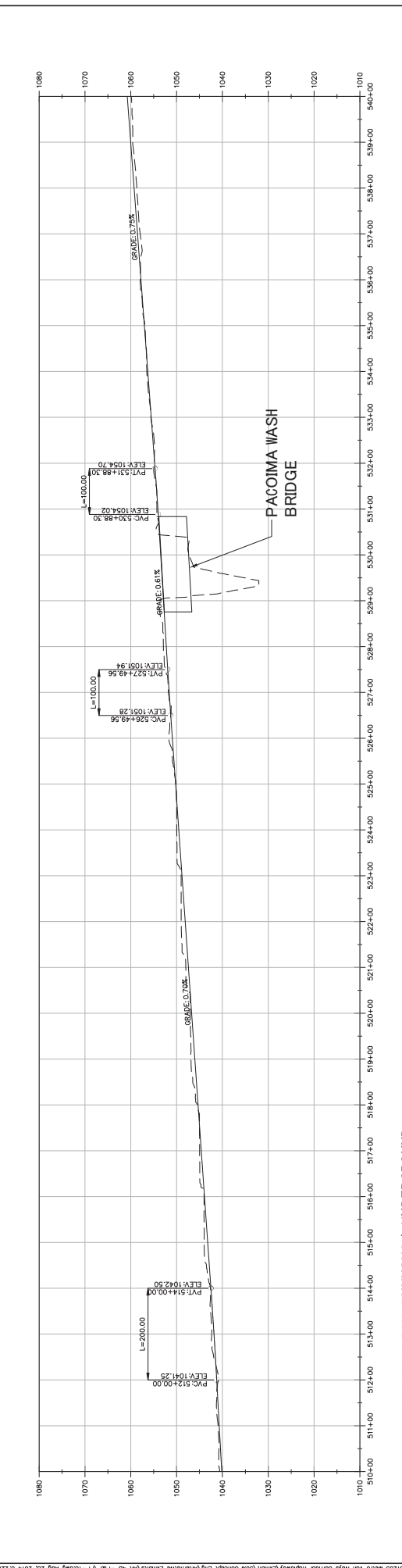
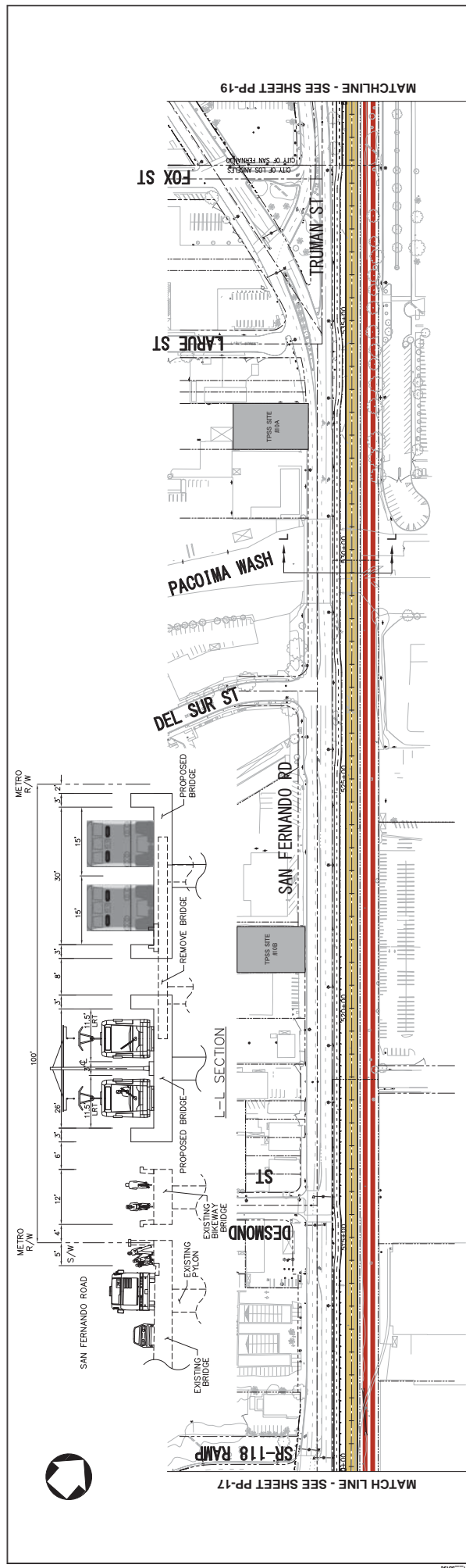
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 DRAWING NO: PP-17  
 SCALE: HORIZ: 1"=100'  
 VERT: 1"=10'  
 SHEET NO: 0

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  
**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT**  
**PLANNING & ENGINEERING**  
 14000 Park Colorado #1025  
 Van Nuys, CA 91411  
 Tel: (818) 250-1000 Fax: (818) 250-1008

PROJECT MANAGER: [Name]  
 HORIZ: 1"=100'  
 VERT: 1"=10'

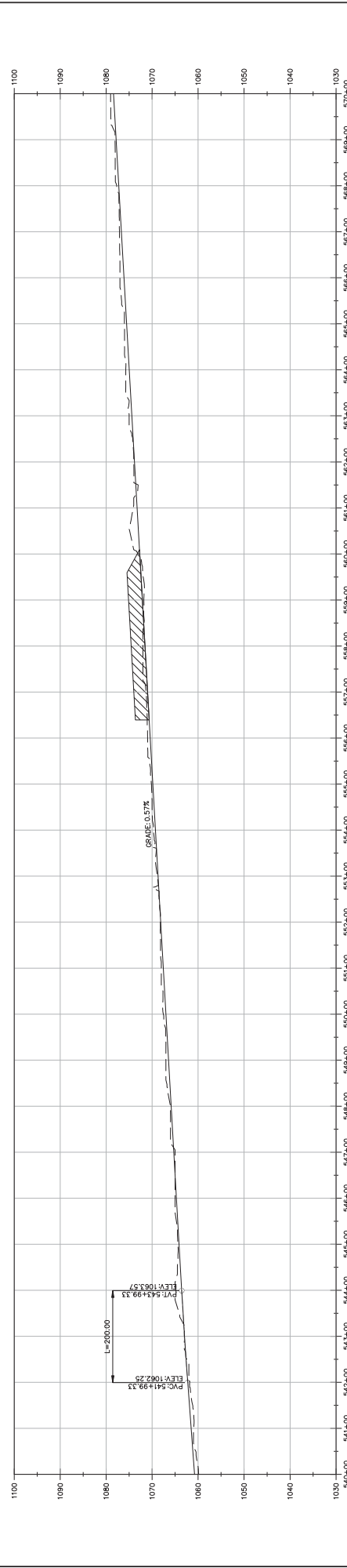
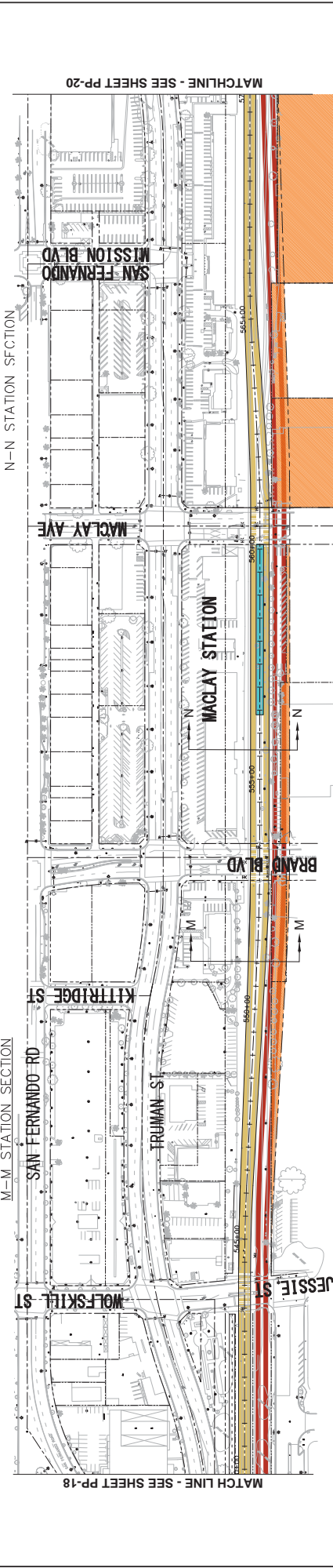
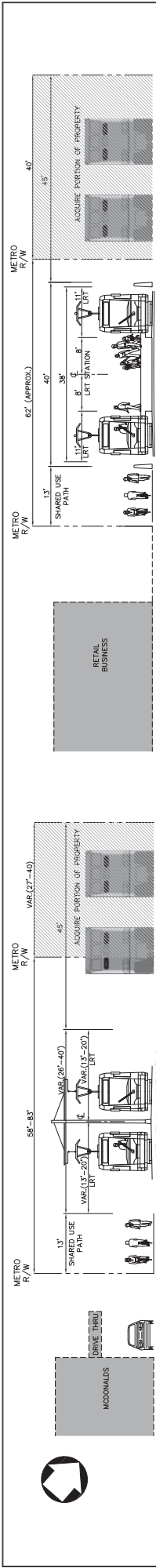
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 LIGHT RAIL TRANSIT ALTERNATIVE  
 PLAN & PROFILE  
 STA 480+00 TO STA 510+00

INDEX NUMBER: [Blank]  
 SHEET: [Blank]



**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

DESIGNED BY	DRAWN BY	CHECKED BY	IN CHARGE	DATE	DESCRIPTION	SCALE	ISSUED	DATE	BY	APP	REV NO	DATE	BY	APP	DATE	BY	APP
<p><b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b>  <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b></p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          14000 Van Nuys Blvd, Suite 100          Van Nuys, CA 91411          Tel: (818) 262-1000 Fax: (818) 262-1008</p>										<p><b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR</b>          LIGHT RAIL TRANSIT ALTERNATIVE  <b>PLAN &amp; PROFILE</b>          STA 510+00 TO STA 540+00</p>				<p>CONTRACT NO: PS-4370-2622          DRAWING NO: PP-18          SCALE: HORIZ: 1"=100'          VERT: 1"=10'          SHEET NO: 0</p>			
<p><b>PROJECT MANAGER</b> _____  <b>SCALE</b> _____  <b>INDEX NUMBER</b> _____</p>										<p><b>SHEET</b> _____</p>							

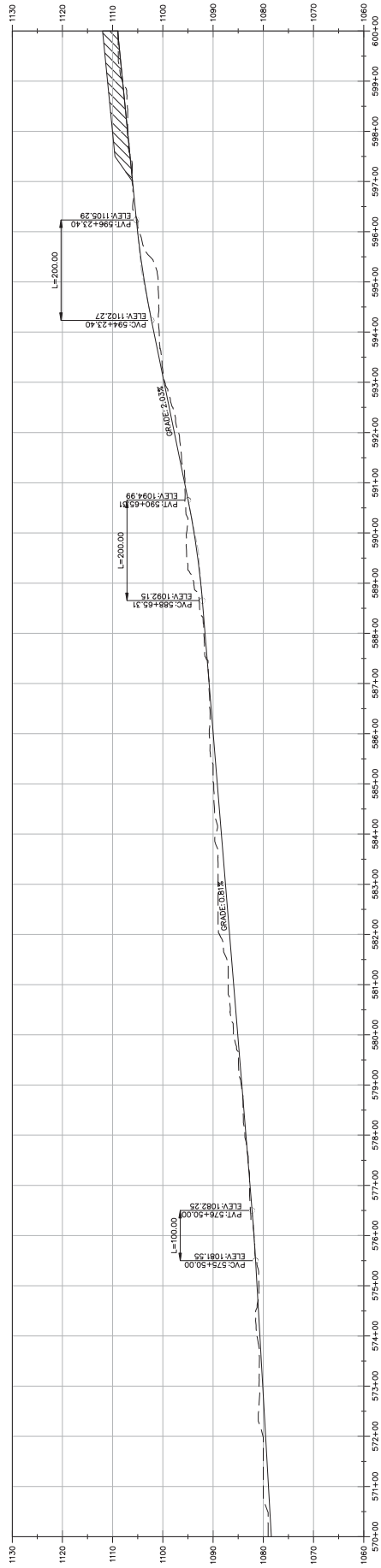
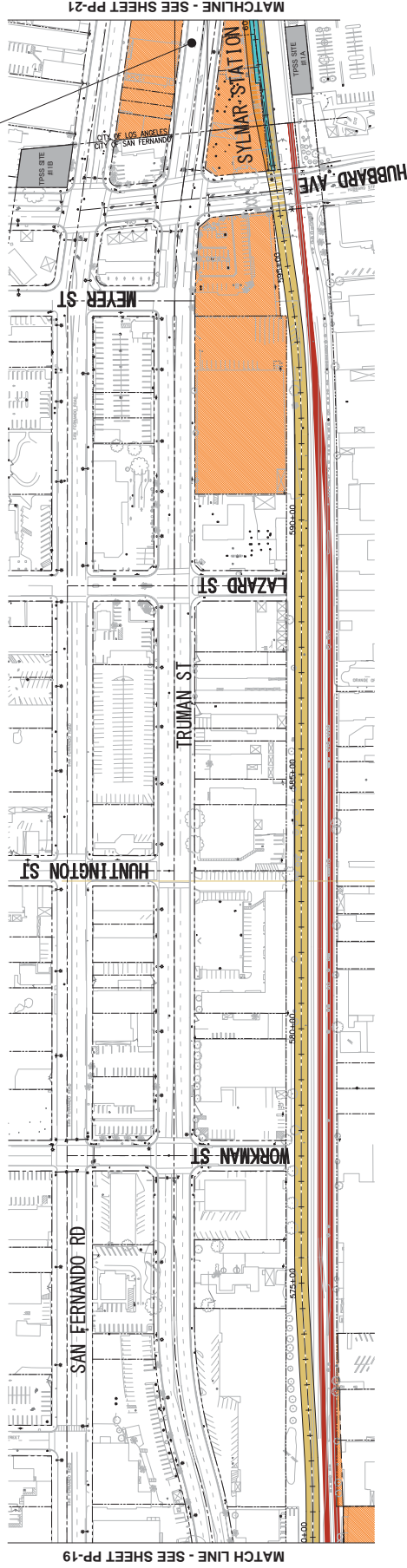


ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION		SCALE		INDEX NUMBER		
REV	DATE	BY	APP	REV NO	DPWES	SCALE	HOLDER	PROJECT MANAGER								SHEET
								KOA CORPORATION								
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT EAST SAN FERNANDO VALLEY TRANSIT ALTERNATIVE LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 540+00 TO STA 570+00																
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-19 SCALE: HORIZ: 1"=100' VERT: 1"=10' SHEET NO. 0																
PLANNING & ENGINEERING KOA CORPORATION 14000 Park Center Rd, Suite 200 Irvine, CA 92618 TEL: (949) 262-1100 FAX: (949) 262-1108 PROJECT MANAGER: [Name], SCALE: HORIZ: 1"=100', VERT: 1"=10'																

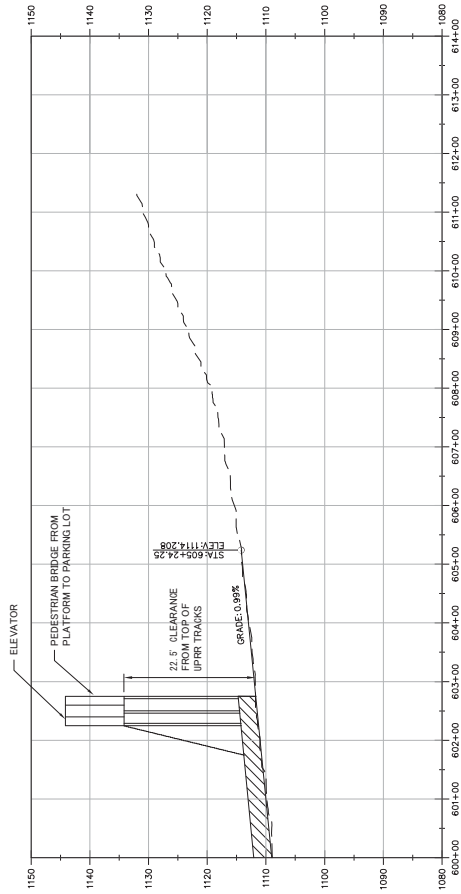
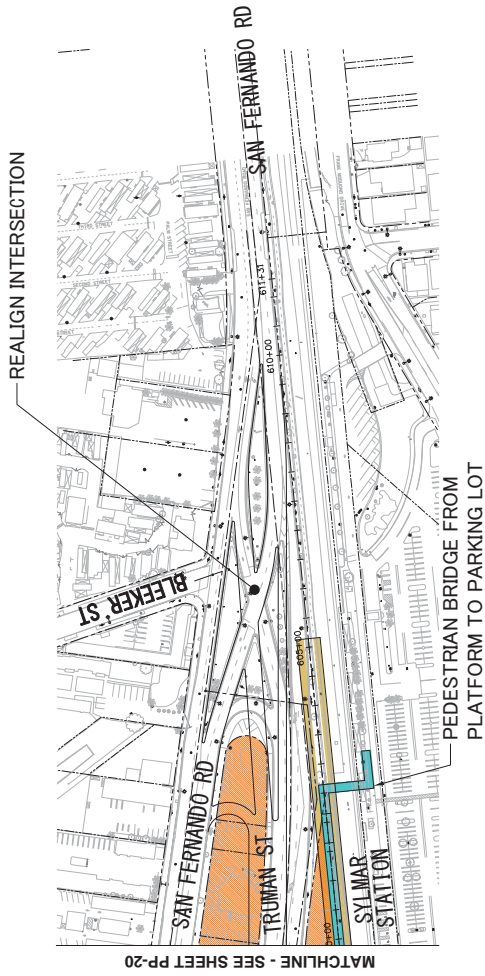


REALIGN TRUMAN STREET



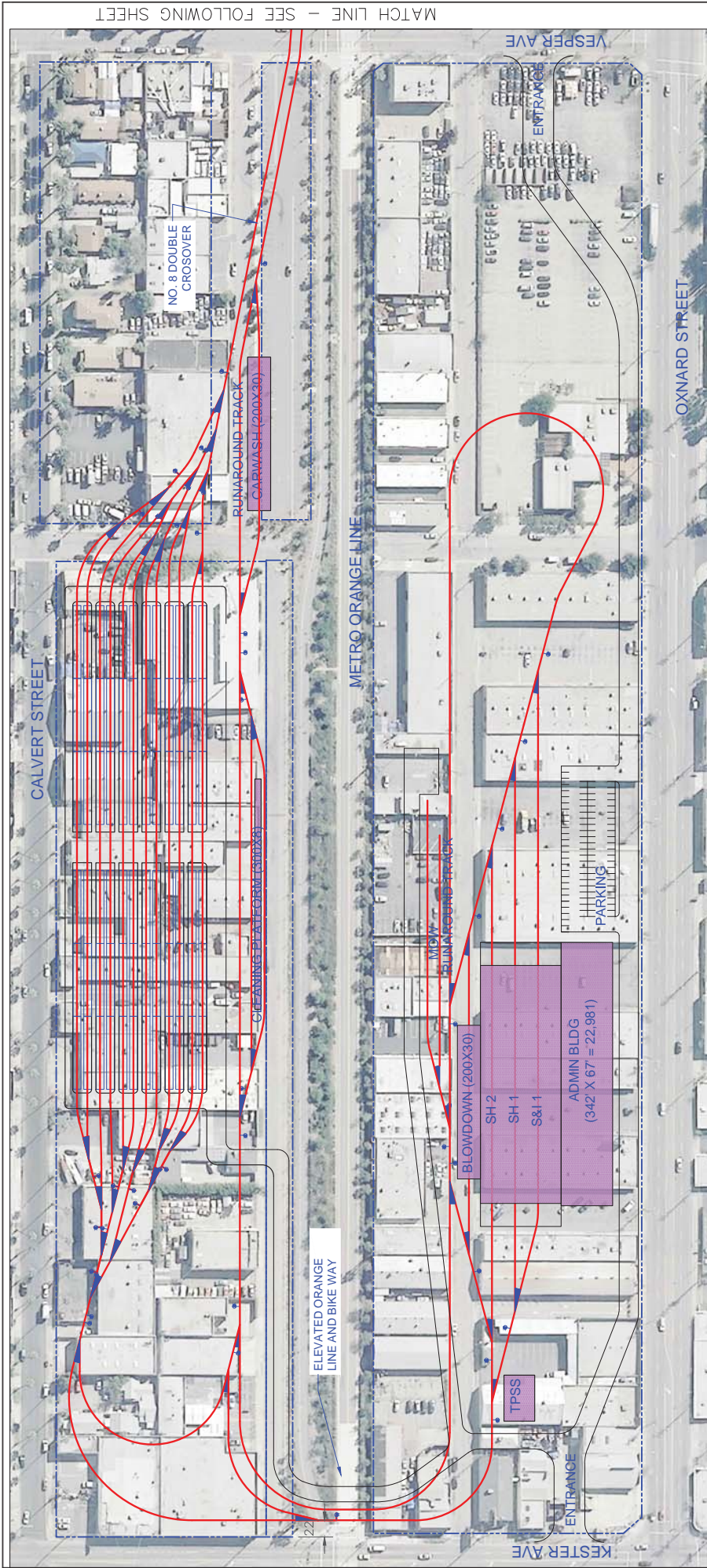
ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION		SCALE		SCALE		INDEX NUMBER	
										SECTION		1"=100'		1"=100'		SHEET	
REV		DATE		BY		APP		RIS		NO		DIPRES		SCALE		INDEX NUMBER	
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY          EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          14000 Park Center Rd #100, Van Nuys, CA 91411          Tel: (818) 252-1000 Fax: (818) 252-1008</p>										<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR          LIGHT RAIL TRANSIT ALTERNATIVE          PLAN &amp; PROFILE          STA 570+00 TO STA 600+00</p>		<p>CONTRACT NO          PS-4370-2622</p> <p>DRAWING NO          PP-20</p> <p>SCALE          HORIZ: 1"=100'          VERT: 1"=10'</p> <p>SHEET NO          0</p>					



ALTERNATIVE 4 - LRT MEDIUM RUNNING/ UNDERGROUND

CONTRACT NO. PS-4370-2622 DRAWING NO. PP-21 SCALE: HORIZ: 1"=100' VERT: 1"=10' SHEET NO.		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 600+00 TO STA 614+00		<b>INDEX NUMBER</b>	
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT		PROJECT MANAGER H. MARK VERT: 1"=10'		<b>SHEET</b>	
KOA CORPORATION PLANNING & ENGINEERING 14000 Park Center Rd, Suite 200 Van Nuys, CA 91411 Tel: (818) 252-1100 Fax: (818) 252-1108		PROJECT MANAGER H. MARK VERT: 1"=10'		<b>SCALES</b>	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	DESCRIPTION 1"=100' ORIGINAL MAP SCALE 1"=100'	0 10 20 30 40 50 60 70 80 90 100 FEET	0 10 20 30 40 50 60 70 80 90 100 FEET	<b>SCALES</b>	
REV. DATE BY APP. DES. NO. DWNES.	SEC. HOLDER	<b>INDEX NUMBER</b>			



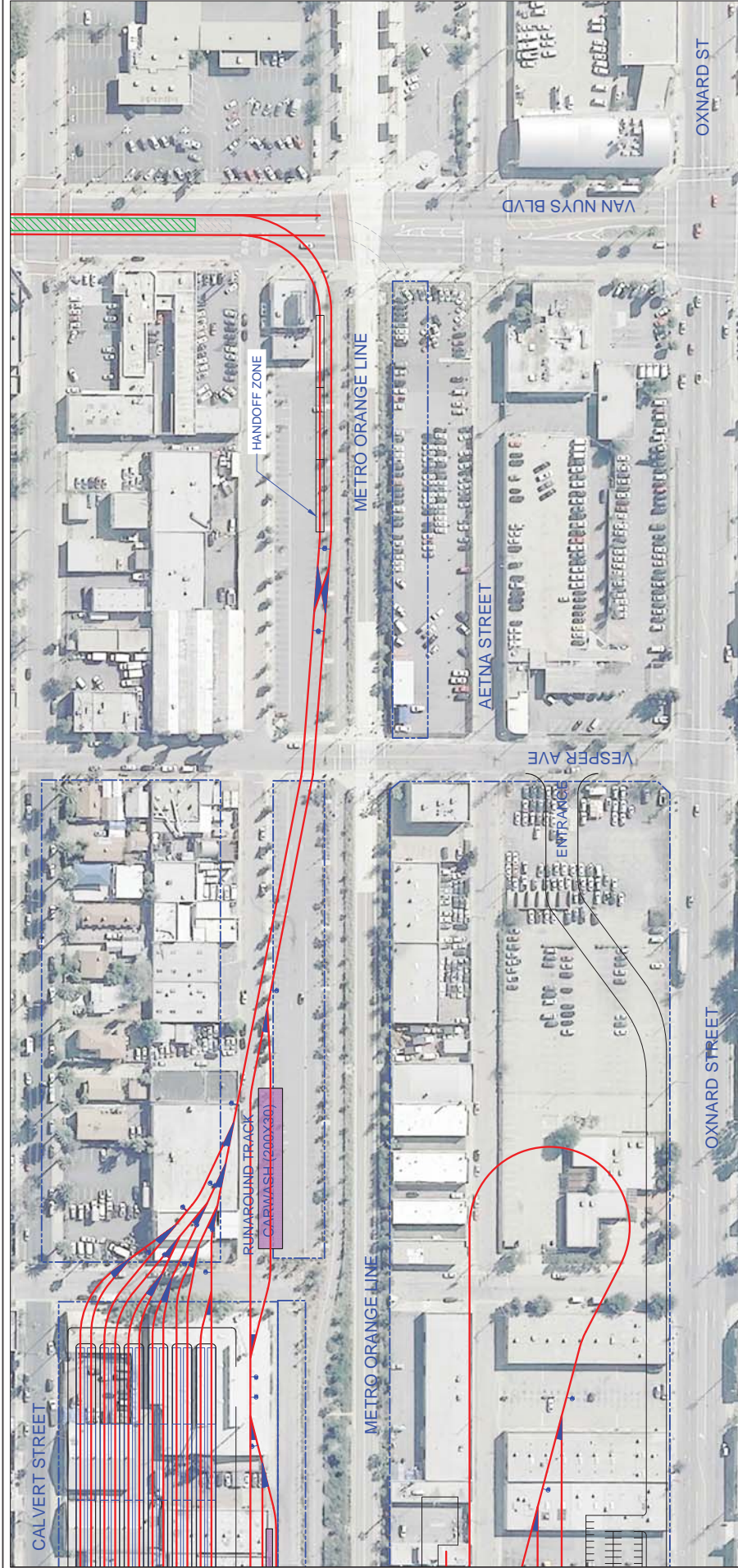
MATCH LINE - SEE FOLLOWING SHEET

NOTE: SECURITY TOWER VS. CCTV

MSF SITE: 30.0 ACRES  
 STORAGE CAPACITY: 24 - 3 CAR TRAINS  
 72 CARS TOTAL  
 190FT RADIUS TURNOUTS  
 MIN RADIUS = 100'



PROJECT FILE NAME: E:\projects\4010220\4010220_0001\00_V02_CAD Models and Sheets\04_C:\Track_Rail\X-Track-MSF-A40-101-001.dwg Aug 27, 2014 8:22am PROJECT NO: 4010220 DRAWING NO: 0 SCALE: HORIZ: 1"=60' VERT: N/A SHEET NO:		CONTRACT NO: PS-4370-2622 DRAWING NO: 0 SCALE: HORIZ: 1"=60' VERT: N/A SHEET NO:	
<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>			
<b>KOA CORPORATION</b> PLANNING & ENGINEERING 10000 Wilshire Blvd, Suite 100 Beverly Hills, California 90210 Tel: (310) 204-1700 Fax: (310) 204-1705			
PROJECT MANAGER <b>STV</b> PROJECT MANAGER WEST, WA		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE MAINTENANCE FACILITY AETMA - 3 CAR TRAINS	
DESIGNED BY S. TERRELL-Lewis S. WALLON CHECKED BY M. SPANGLER M. SPANGLER DATE 09/27/14	INDEX NUMBER SHEET	SCALES WEST, WA	INDEX NUMBER SHEET



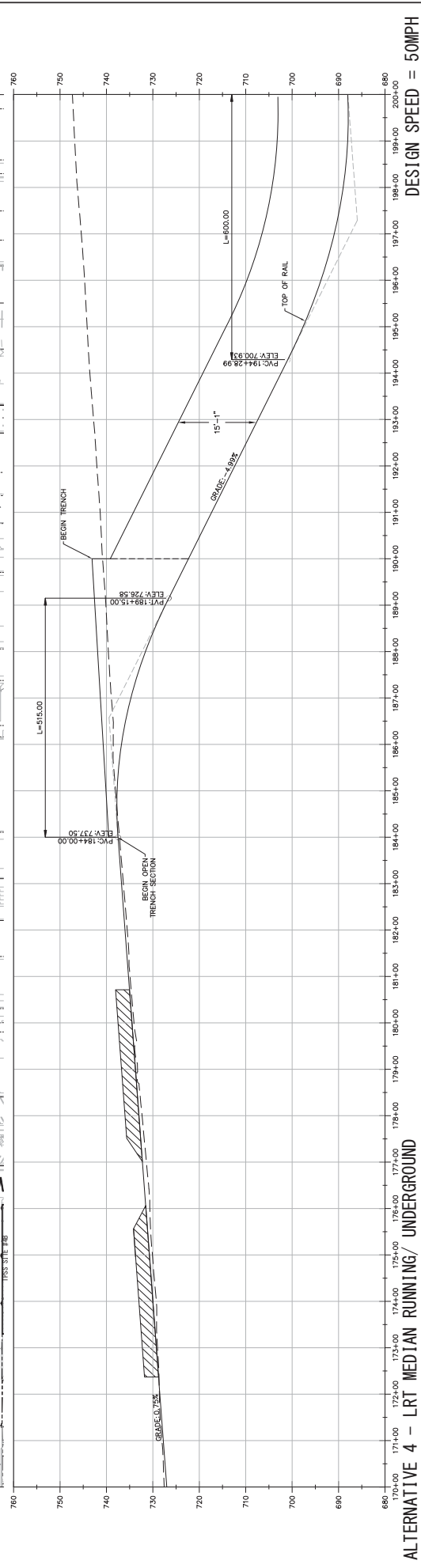
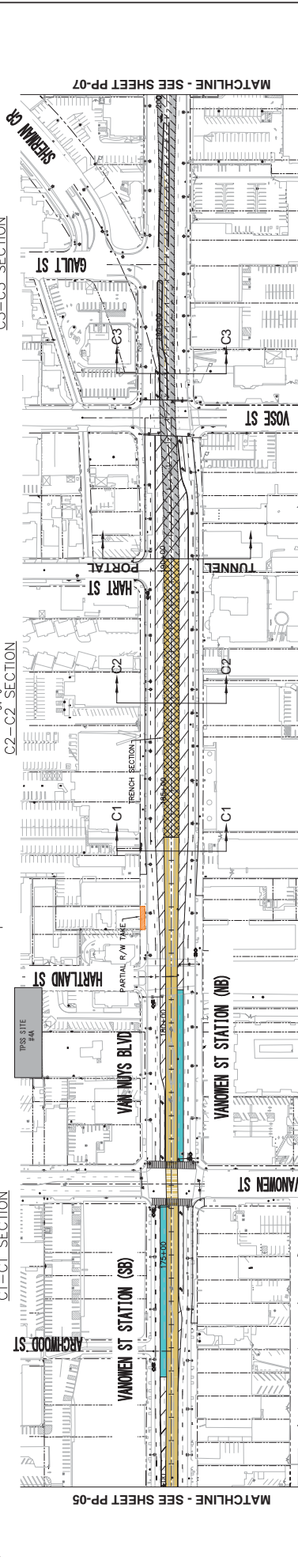
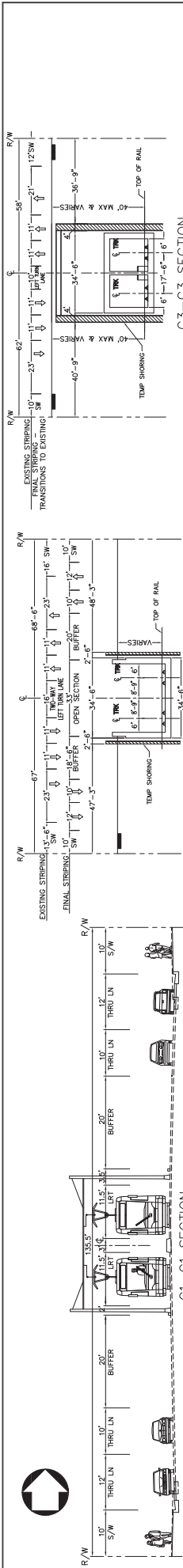
MATCH LINE - SEE PREVIOUS SHEET

NOTE: SECURITY TOWER VS. CCTV

MSF SITE: 30.0 ACRES  
 STORAGE CAPACITY: 24 - 3 CAR TRAINS  
 72 CARS TOTAL  
 190FT RADIUS TURNOUTS  
 MIN RADIUS = 100'

DESIGNED BY T. THORNTON S. WALLON CHECKED BY T. THORNTON T. WALLON DATE 09/17/14		CONTRACT NO. PS-4370-2622 DRAWING NO. 0 SCALE HORIZ: 1"=60' VERT: N/A SHEET NO.					
PROJECT MANAGER <b>STV</b> KOA CORPORATION PLANNING & ENGINEERING 10000 Wilshire Blvd, Suite 200 Beverly Hills, California 90210 TEL (310) 204-1700 Fax (310) 204-1705		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE MAINTENANCE FACILITY AETNA - 3 CAR TRAINS					
REV	DATE	BY	APP	REV NO	DESCRIPTION	SCALE	INDEX NUMBER





**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

DESIGN SPEED = 50MPH

CONTRACT NO.	PS-4370-2622
DRAWING NO.	PP-06B
SCALE	HORIZ: 1"=100' VERT: 1"=10'
SHEET NO.	

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
LIGHT RAIL TRANSIT ALTERNATIVE  
PLAN & PROFILE  
STA 1700+00 TO STA 2000+00  
OPTION B

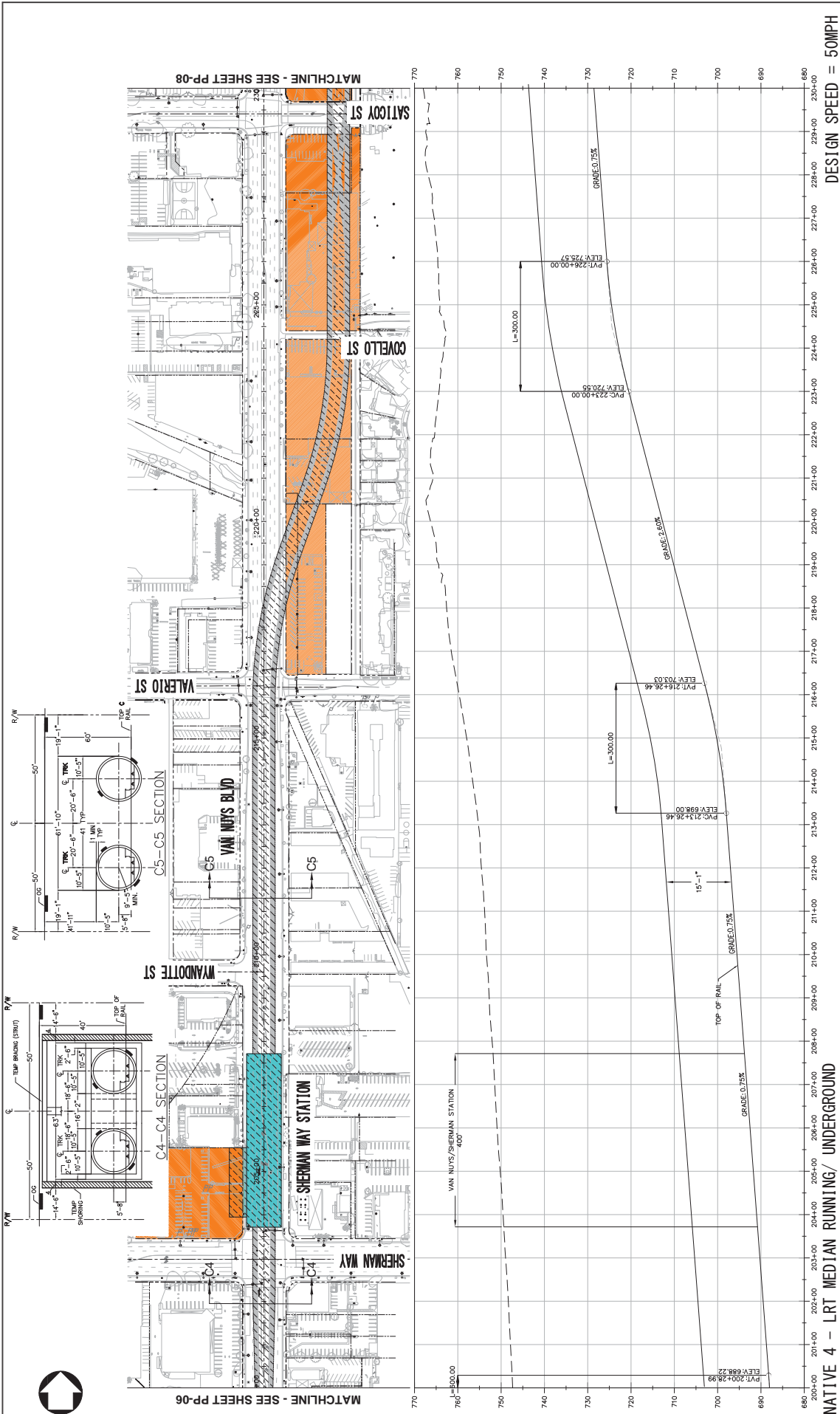
DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	
DESCRIPTION	
SCALE	1"=100'
SCALE	1"=10'

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT

**KOA CORPORATION**  
PLANNING & ENGINEERING  
10000 Wilshire Blvd, Suite 1000  
Beverly Hills, CA 90210  
Tel: (310) 206-1100 Fax: (310) 206-1108

PROJECT MANAGER: [Name]  
SCALE: 1"=100'  
VERT: 1"=10'

INDEX NUMBER: [Number]  
SHEET: [Number]



<b>ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND</b> DESIGN SPEED = 50MPH		CONTRACT NO. PS-4370-2622 DRAWING NO. PP-07B SCALE: HORIZ. 1"=100' VERT. 1"=10'						
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 200+00 TO STA 230+00 OPTION B						
KOA CORPORATION PLANNING & ENGINEERING 10000 Van Nuys Blvd, Suite 100 Van Nuys, CA 91411 Tel: (818) 252-2600 Fax: (818) 252-4108		PROJECT MANAGER: [Name] DRAWN: [Name] CHECKED: [Name] IN CHARGE: [Name] DATE: [Date] DESCRIPTION: C-4/C5 ORIGINAL MAP SCALE: 1"=50'						
REV	DATE	BY	APP	REV NO	ISSUES	SCALE	SHEET	INDEX NUMBER

CADD PROJECT FILE NAME: Y:\2010\801205 Metro Van Nuys Center\pp07\Cadd\2005 Concept Eng\Alternative Exhibit\1148 - Plan PP-07 - 0.dwg Sep 05, 2014 11:37am - shih



KESWICK ST

TO POTENTIAL MAINTENANCE YARD

RAYNER ST

VAN NOYS

VAN NOYS

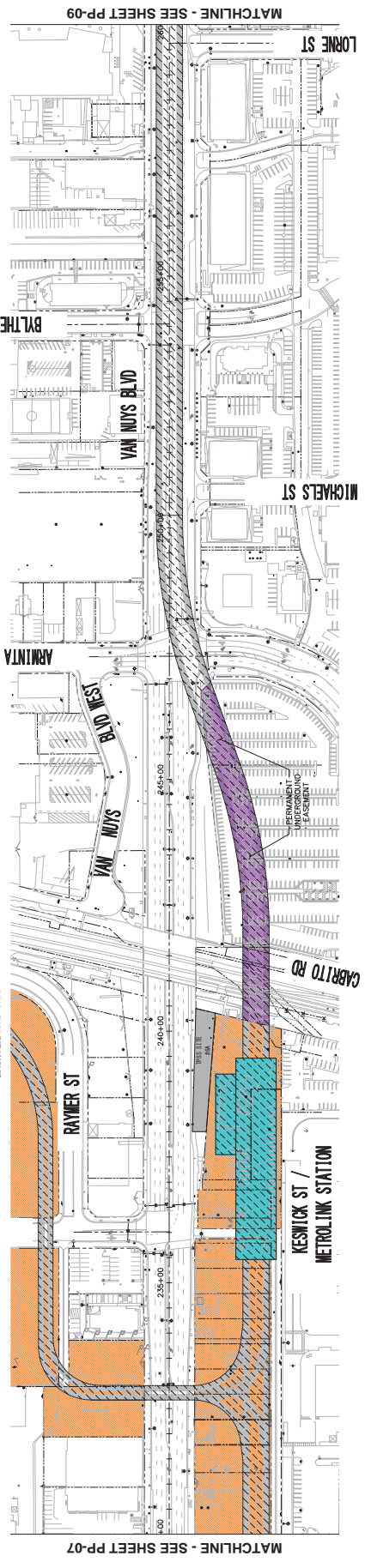
APARANTA RD

MICHAELS ST

VAN NOYS BLVD

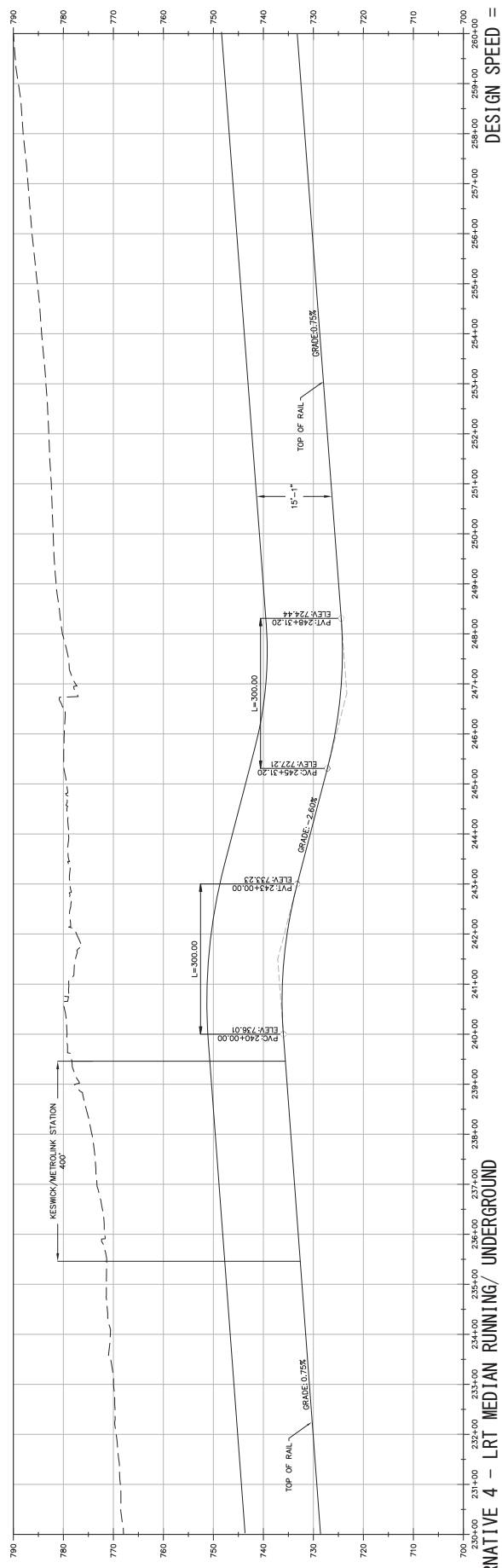
BYLTHE ST

LORNE ST



MATCHLINE - SEE SHEET PP-07

MATCHLINE - SEE SHEET PP-09



DESIGN SPEED = 50MPH

**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT  
 PLANNING & ENGINEERING  
 KOA CORPORATION  
 14000 Van Noys Blvd, Suite 200  
 Van Noys, CA 91334  
 Tel: (818) 260-1100 Fax: (818) 260-1108

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
 LIGHT RAIL TRANSIT ALTERNATIVE  
 PLAN & PROFILE  
 STA 230+00 TO STA 260+00  
 OPTION B

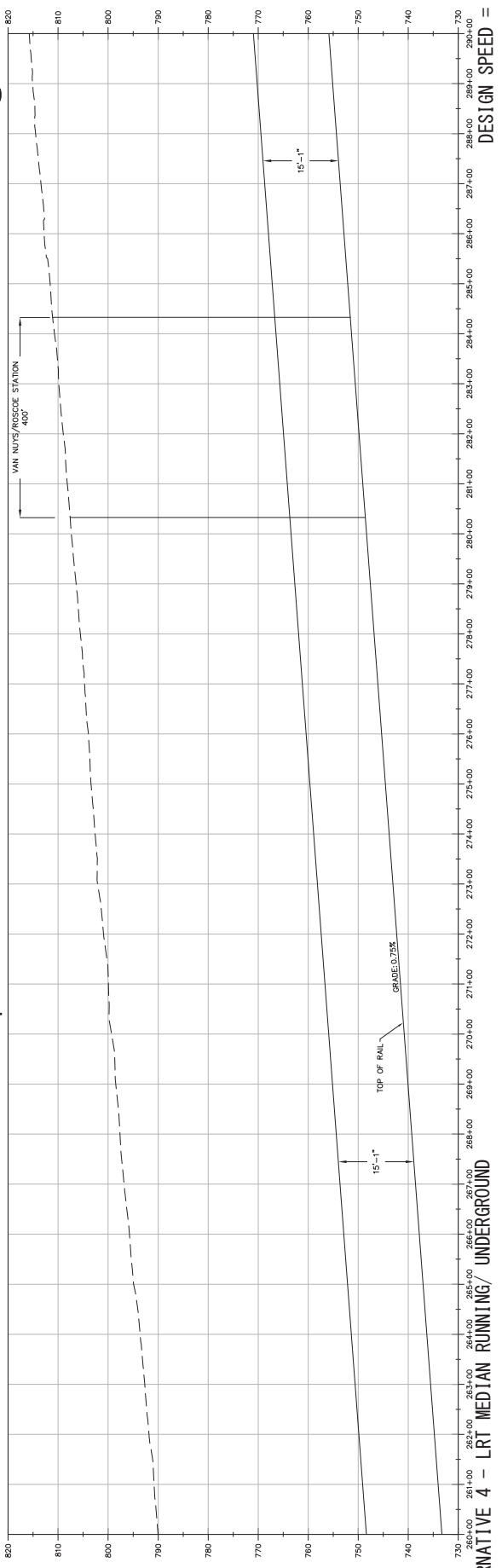
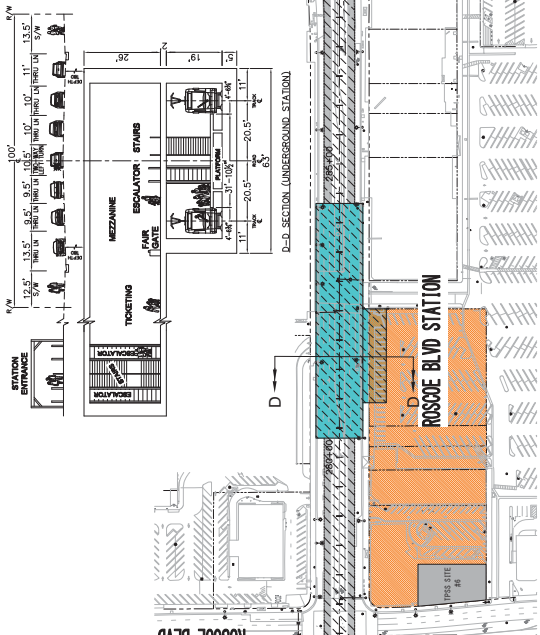
CONTRACT NO.	PS-4370-2622
DRAWING NO.	PP-08B
SCALE	HORIZ: 1"=100' VERT: 1"=10'
SHEET NO.	

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	
DESCRIPTION	
SCALE	HORIZ: 1"=100' VERT: 1"=10'

REV	DATE	BY	APP	REQ NO	ISSUES	SEC. HOLDER

PROJECT MANAGER	SCALE	SHEET	INDEX NUMBER



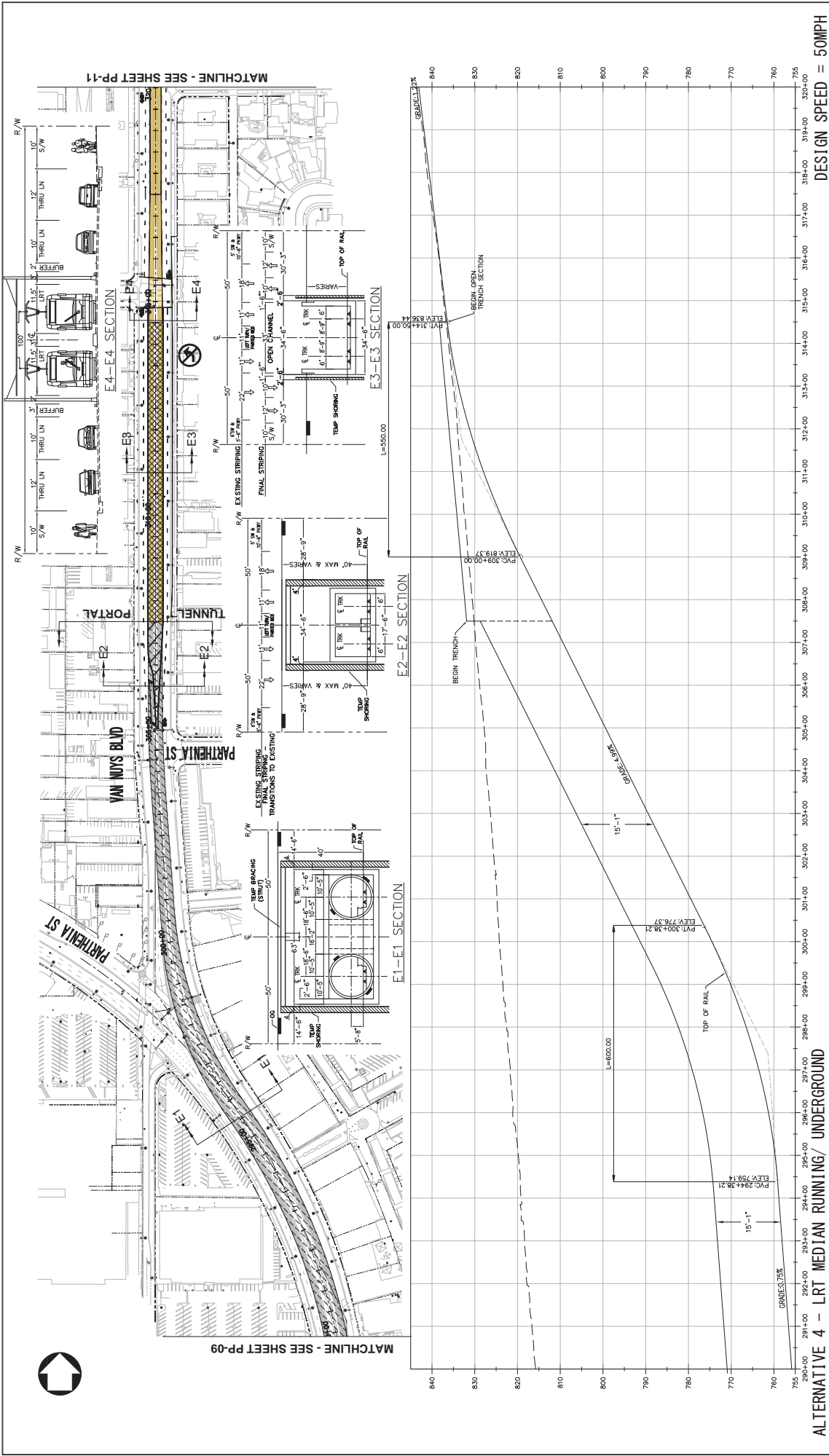


DESIGN SPEED = 50MPH

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> PLANNING & ENGINEERING <small>10000 Van Nuys Blvd, Suite 1000, Van Nuys, CA 91411          Tel: (818) 252-1100 Fax: (818) 252-1108</small>		PROJECT MANAGER <small>NAME: T. 107</small> <small>VERT: 1"=10'</small>	
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-09B SCALE: HORIZ: 1"=100' VERT: 1"=10' SHEET NO.		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 260+00 TO STA 290+00 OPTION B		INDEX NUMBER SHEET	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	REVISION C-107 11/13/12	DESIGNATION SECTION DATE	SCALE HORIZ: 1"=100' VERT: 1"=10'	ORIGINAL MAP SCALE 1"=100'	

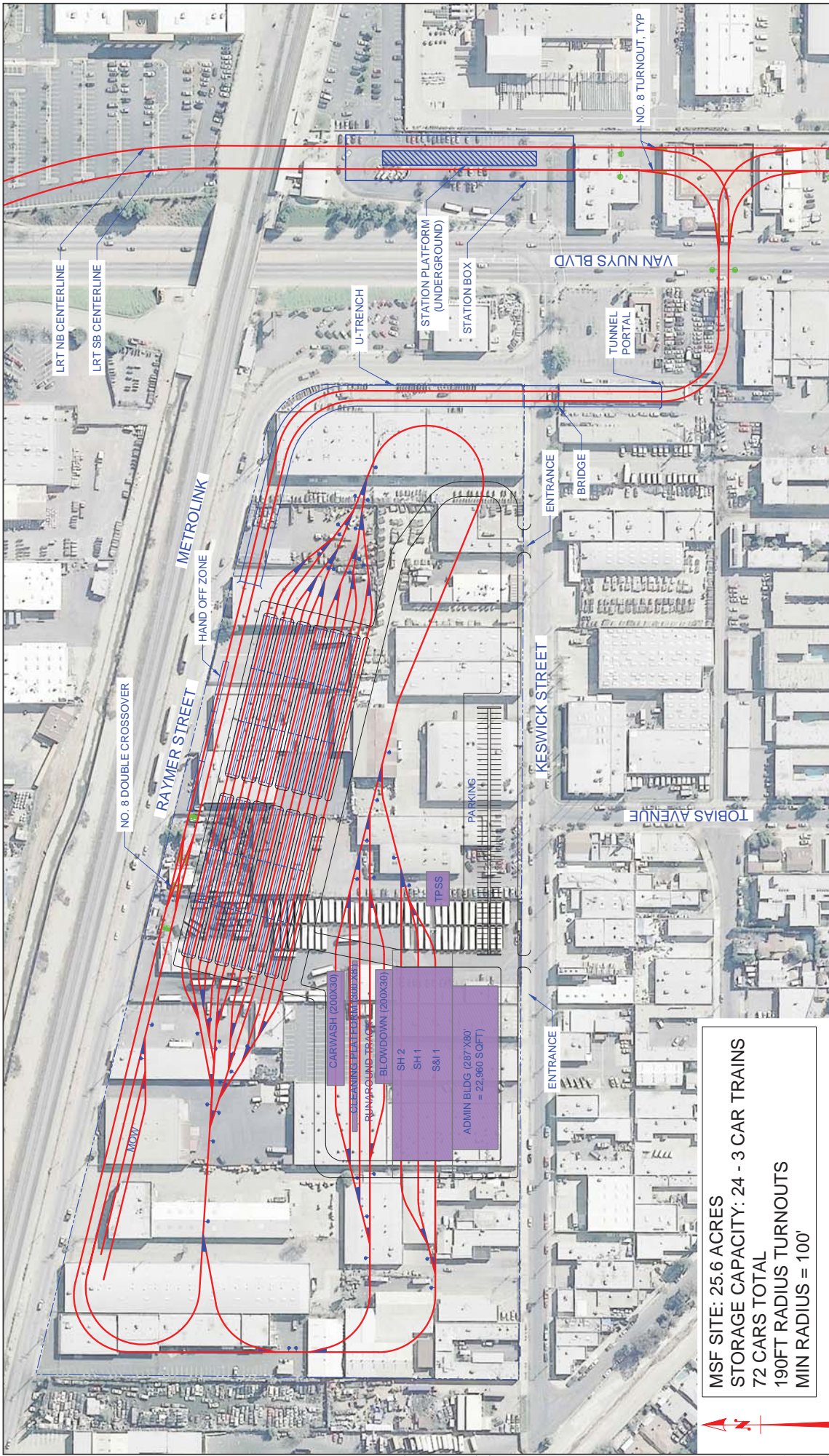
MATCHLINE - SEE SHEET PP-08

MATCHLINE - SEE SHEET PP-10



DESIGN SPEED = 50MPH

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> PLANNING & ENGINEERING <small>10000 Van Nuys Blvd, Suite 200, Van Nuys, CA 91411          Tel: (818) 250-2600 Fax: (818) 250-4108</small>		PROJECT MANAGER <small>MARK C. COO</small> SCALE: 1"=10'	
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-10B SCALE: 1"=100' HORIZ. 1"=100' VERT. 1"=10'		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 290+00 TO STA 320+00 OPTION B		SHEET NO. INDEX NUMBER	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	DEPARTMENT SEC. HOLDER DOWNS REV. NO. APP. NO. DATE	ORIGINAL MAP SCALE 1"=50'	SCALE 1"=10'	SHEET INDEX NUMBER	SHEET NO. INDEX NUMBER



**MSF SITE: 25.6 ACRES**  
**STORAGE CAPACITY: 24 - 3 CAR TRAINS**  
**72 CARS TOTAL**  
**190FT RADIUS TURNOUTS**  
**MIN RADIUS = 100'**

REV	DATE	BY	APP	REQ NO	EXPRES	SCALE	REASON	DESCRIPTION

DESIGNED BY T. THORNTON CHECKED BY S. WALKER IN CHARGE A. SPENCE DATE 09/27/2014	PROJECT MANAGER M. KESWICK VERT. N/A
---	--

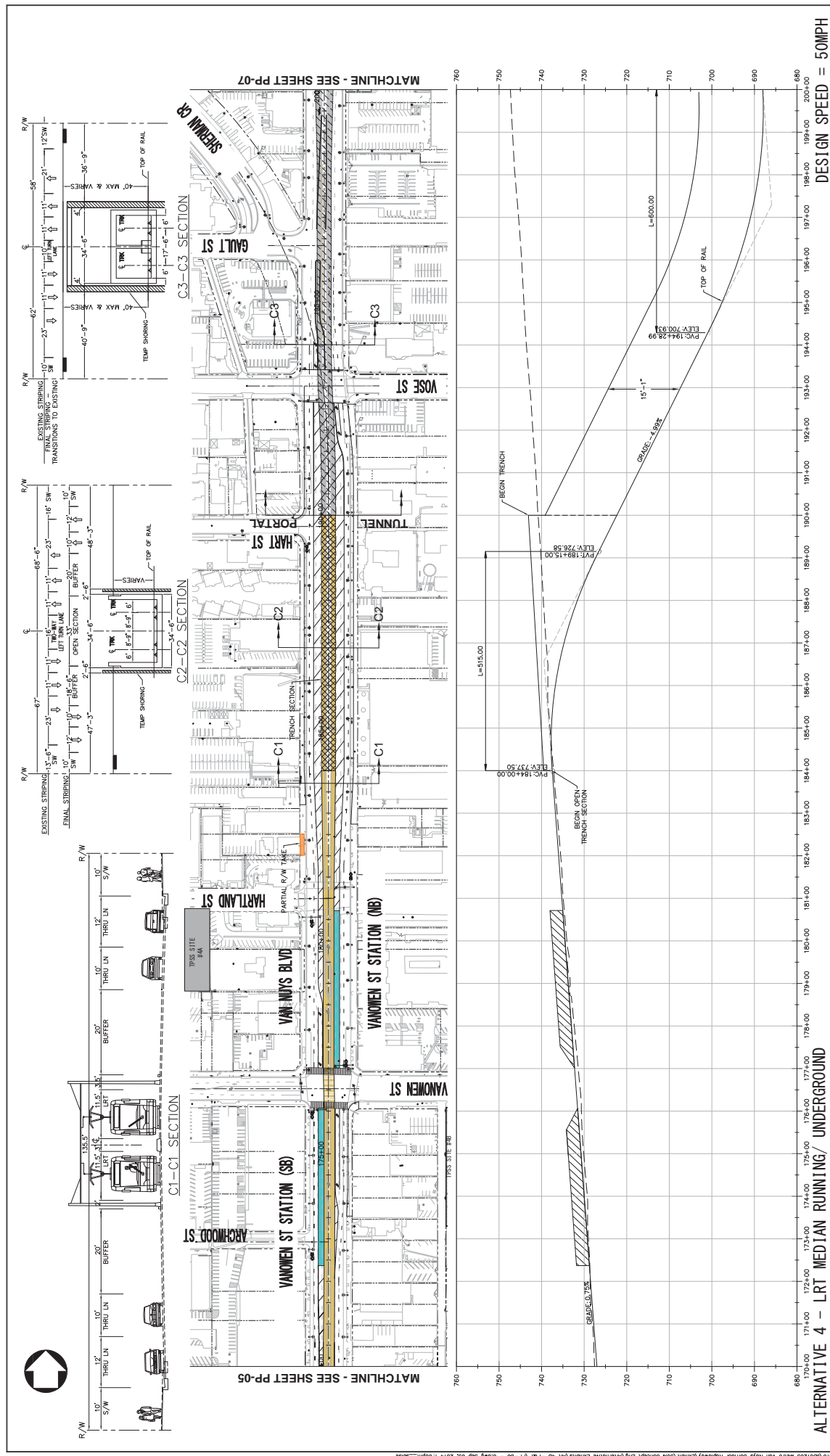
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT STV KOA CORPORATION PLANNING & ENGINEERING 10000 Van Nuys Blvd., Suite 201 Van Nuys, CA 91411 TEL: (818) 264-1703 FAX: (818) 264-1705	EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE MAINTENANCE FACILITY KESWICK OPTION - 3 CAR TRAINS
---	--

CONTRACT NO.	PS-4370-2622
DRAWING NO.	KESWICK LRT 0
SCALE	HORIZ: 1"=60'
VERT:	N/A
SHEET NO.	

INDEX NUMBER	SHEET
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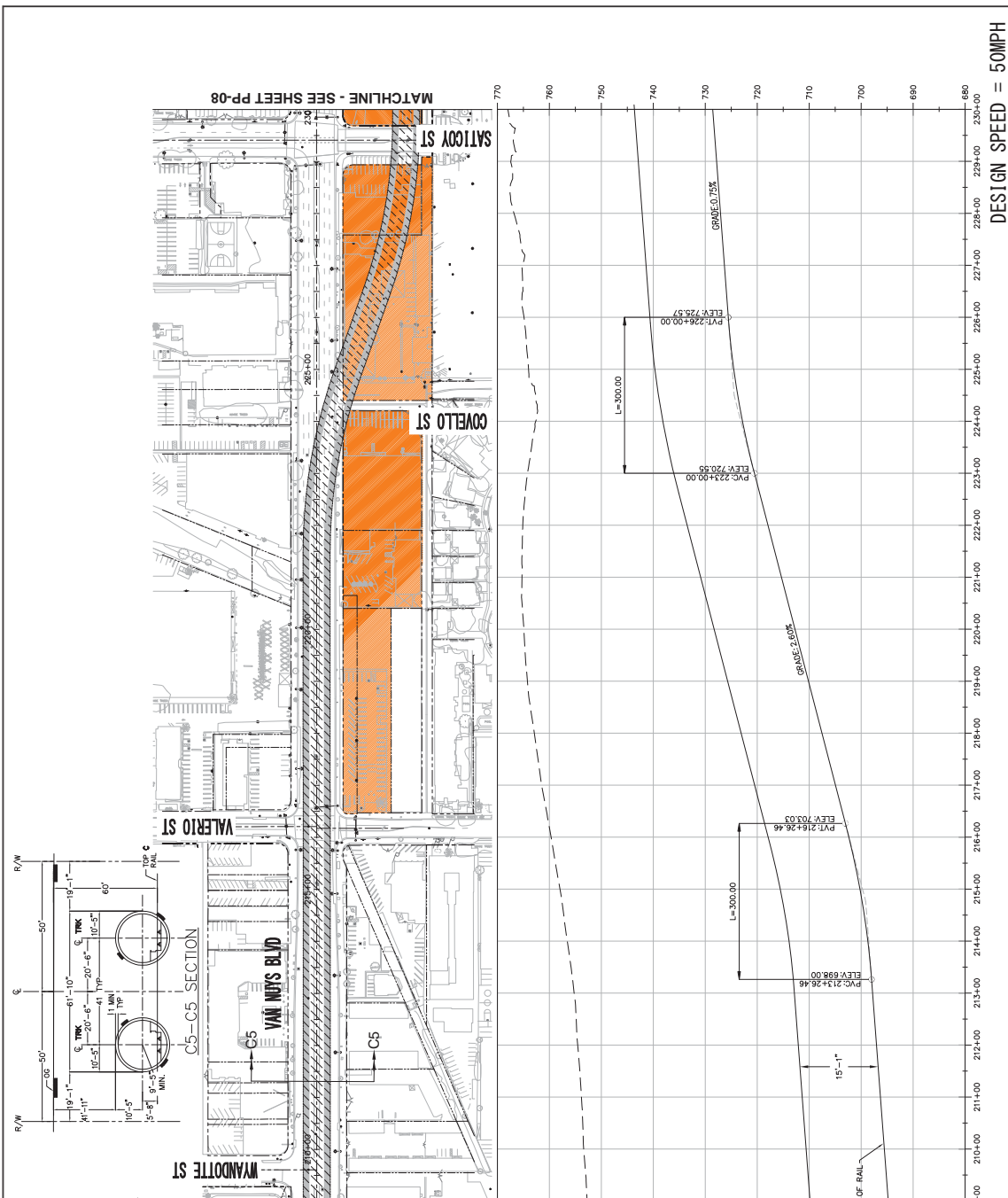
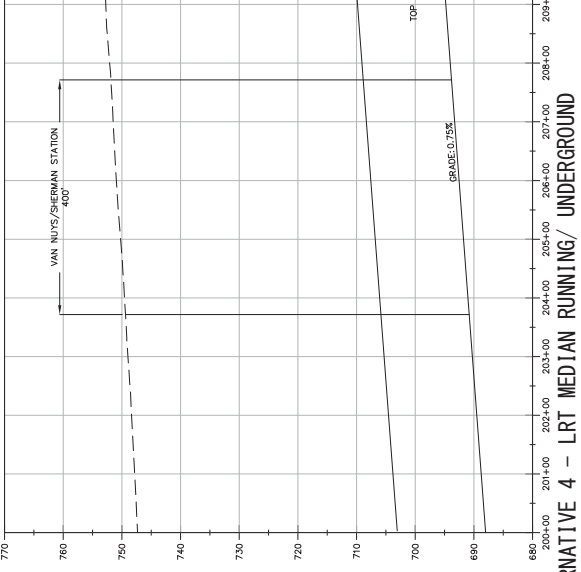
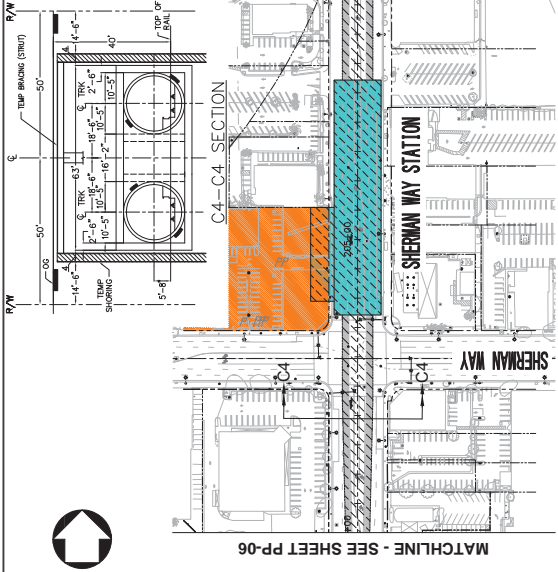


DESIGN SPEED = 50MPH

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> PLANNING & ENGINEERING <small>10000 Vanowen Street, Suite 100, Van Nuys, CA 91411          Tel: (818) 252-1100 Fax: (818) 252-1108</small>	
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-06C SCALE: HORIZ. 1"=100' VERT. 1"=10'		PROJECT MANAGER: [Name] HORIZ. 1"=100' VERT. 1"=10'	
SHEET NO. [Blank]	INDEX NUMBER [Blank]	SHEET [Blank]	INDEX NUMBER [Blank]

REVISIONS: 1. [Blank] 2. [Blank] 3. [Blank]	DESIGNED BY [Blank] DRAWN BY [Blank] CHECKED BY [Blank] IN CHARGE [Blank]	DATE [Blank]	DESCRIPTION [Blank]
REV. DATE BY APP. [Blank]	DESIGNED BY [Blank]	DATE [Blank]	DESCRIPTION [Blank]

ORIGINAL MAP SCALE: 1"=200'  
 ORIGINAL PLAN SCALE: 1"=100'  
 ORIGINAL PROFILE SCALE: 1"=10'



**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

**DESIGN SPEED = 50MPH**

<p><b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b>  <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b></p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING  <small>15000 Van Nuys Blvd, Suite 200, Van Nuys, CA 91411          Tel: (818) 250-2800 Fax: (818) 250-4108</small></p>	<p><b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR</b>  <b>LIGHT RAIL TRANSIT ALTERNATIVE</b>  <b>PLAN &amp; PROFILE</b>          STA 200+00 TO STA 230+00          OPTION C</p>												
<p>CONTRACT NO: PS-4370-2622          DRAWING NO: PP-07C          SCALE: HORIZ: 1"=100'          VERT: 1"=10'</p>	<p>PROJECT MANAGER: [Name]          DRAWN BY: [Name]          CHECKED BY: [Name]          IN CHARGE: [Name]          DATE: [Date]</p>												
<p>REVISIONS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>APP</th> <th>REASON</th> <th>SCALE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	BY	APP	REASON	SCALE							<p>SCALES: HORIZ: 1"=100'          VERT: 1"=10'</p> <p>INDEX NUMBER: [Number]</p> <p>SHEET: [Number]</p>
REV	DATE	BY	APP	REASON	SCALE								

CADD PROJECT FILE NAME: Y:\2010\801205 Metro Van Nuys Center Project\Exhibit\2005 Concept Eng\Alternative Exhibit\MT 4B-P&P-07 - C.dwg Aug 28, 2014 8:25am -rs98





KESWICK ST

RAYNER ST

TO POTENTIAL MAINTENANCE YARD

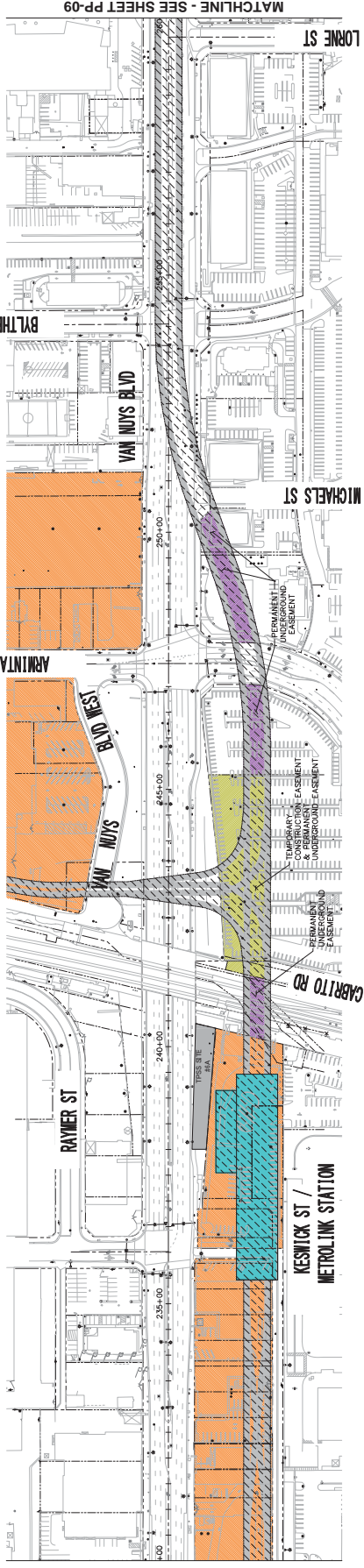
AMANTIA RD

VAN NOYS

BYLTHE ST

VAN NOYS BLVD

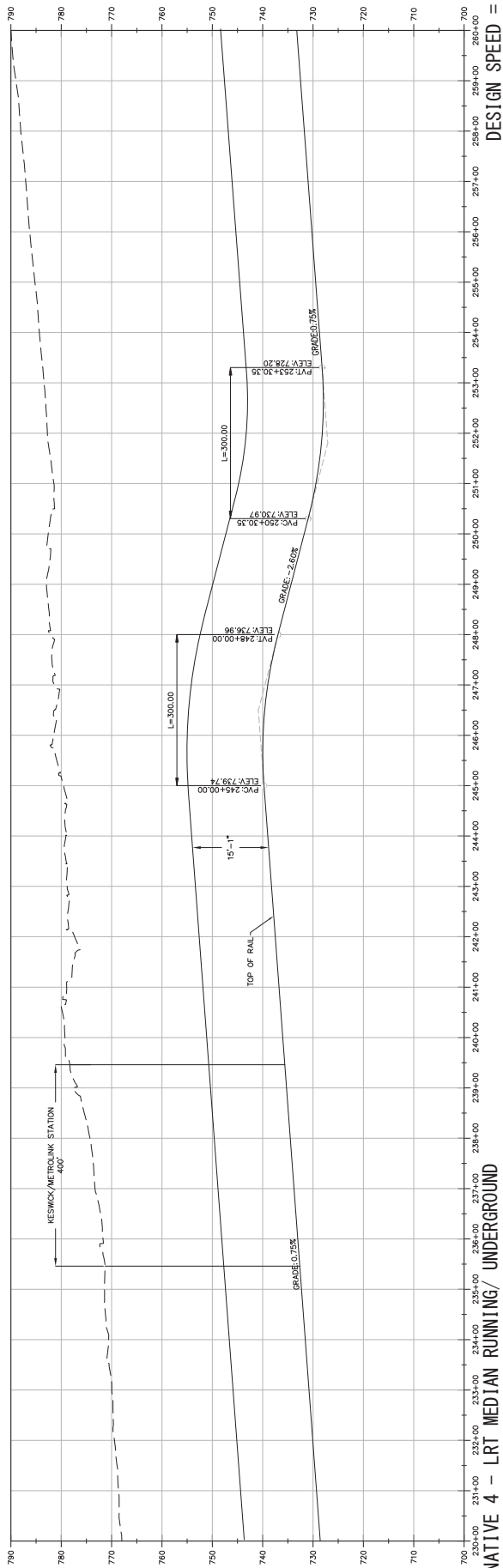
MATCHLINE - SEE SHEET PP-07



MATCHLINE - SEE SHEET PP-09

LORNE ST

MICHAELS ST



DESIGN SPEED = 50MPH

### ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY  
 EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT

**KOA CORPORATION**  
 PLANNING & ENGINEERING  
 14000 Vanowen Street, Suite 200  
 Van Nuys, CA 91411  
 Tel: (818) 262-4100 Fax: (818) 262-4108

REV	DATE	BY	APP	REV NO	DESIGN	SEC. HOLDER	DESCRIPTION

CONTRACT NO	PROJECT NAME
PS-4370-2622	EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR
DRAWING NO	PROJECT ALTERNATIVE
PP-08C	LIGHT RAIL TRANSIT ALTERNATIVE
SCALE	PLAN & PROFILE
HORIZ: 1"=100'	
VERT: 1"=10'	
SHEET NO	OPTION
	STA 230+00 TO STA 260+00 OPTION C

INDEX NUMBER

SCALES

PROJECT MANAGER

SCALE: HORIZ. 1"=100'

SCALE: VERT. 1"=10'

SCALE: ORIGINAL MAP SCALE 1"=500'

SCALE: 0 10 20 30 40 50 60 FEET

SCALE: 0 10 20 30 40 50 60 FEET

SCALE: 0 10 20 30 40 50 60 FEET

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SCALE: 0 10 20 30 40 50 60 FEET

SCALE: 0 10 20 30 40 50 60 FEET

SCALE: 0 10 20 30 40 50 60 FEET

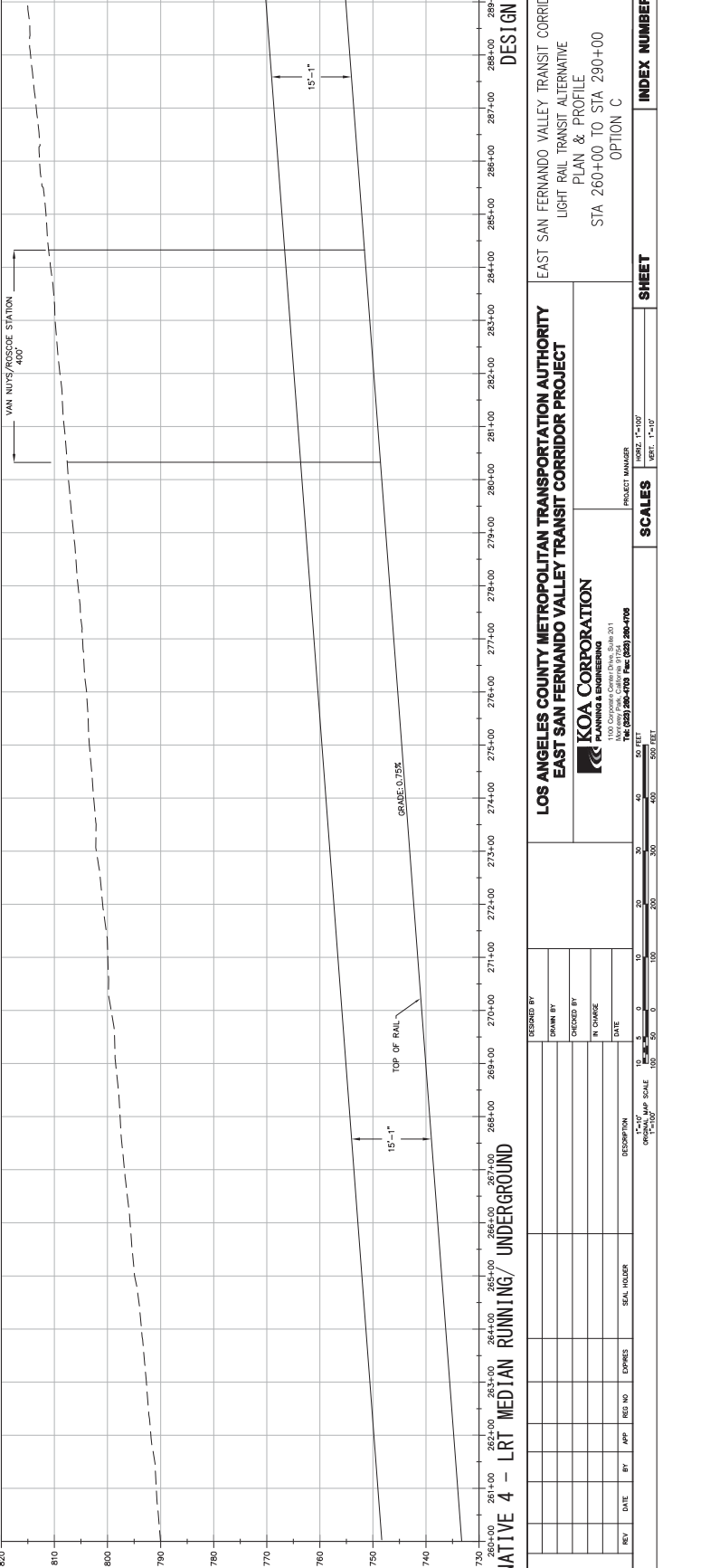
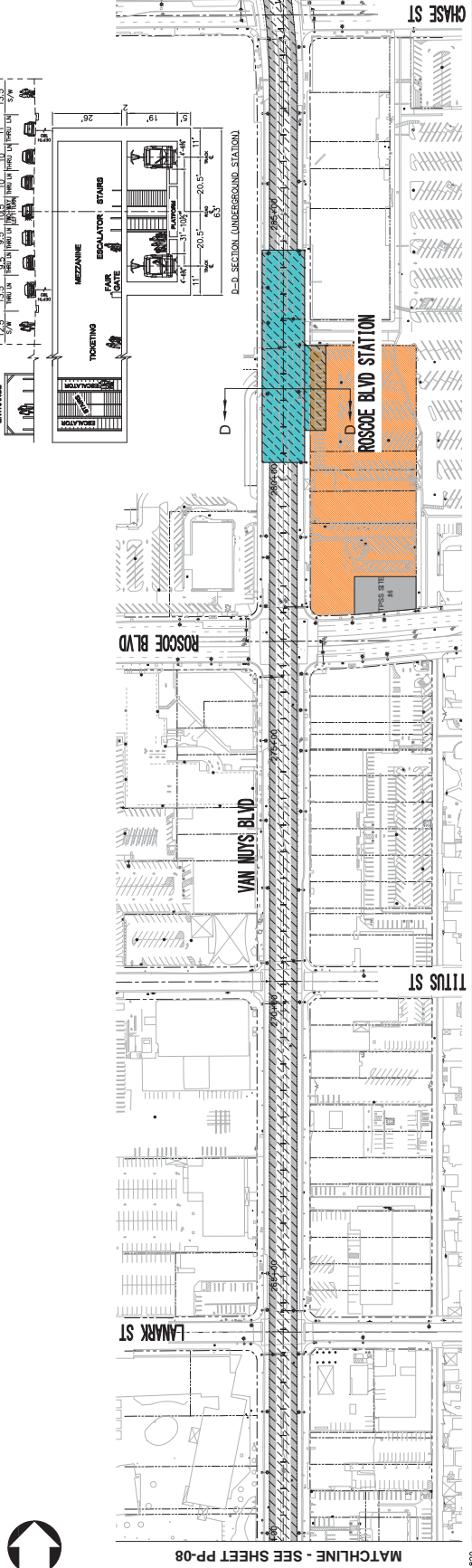
SCALE: 0 10 20 30 40 50 60 FEET

SCALE: 0 10 20 30 40 50 60 FEET

SCALE: 0 10 20 30 40 50 60 FEET

SCALE: 0 10 20 30 40 50 60 FEET

STATION ENTRANCE  
TOILETING  
MEZZANINE  
ESCALATOR STAIRS  
FAIR GATE  
P.B. SECTION (UNDERGROUND STATION)



ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND DESIGN SPEED = 50MPH

CONTRACT NO. PS-4370-2622 DRAWING NO. PP-09C SCALE: HORIZ. 1"=100' VERT. 1"=10' SHEET NO.		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 260+00 TO STA 290+00 OPTION C					
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT		PROJECT MANAGER MARK C. COOKE VERT. 1"=10' HORIZ. 1"=100'					
KOA CORPORATION PLANNING & ENGINEERING 10000 Park Colorado Blvd., Suite 301 Los Angeles, CA 90045 Tel: (818) 262-1100 Fax: (818) 262-1108		INDEX NUMBER SHEET					
REV.	DATE	BY	APP.	DES. NO.	DRAWN	SCALE	DESCRIPTION

MATCHLINE - SEE SHEET PP-08  
 MATCHLINE - SEE SHEET PP-10

LANARK ST  
 VAN NUYS BLVD  
 ROSCOE BLVD  
 TITUS ST  
 CHASE ST

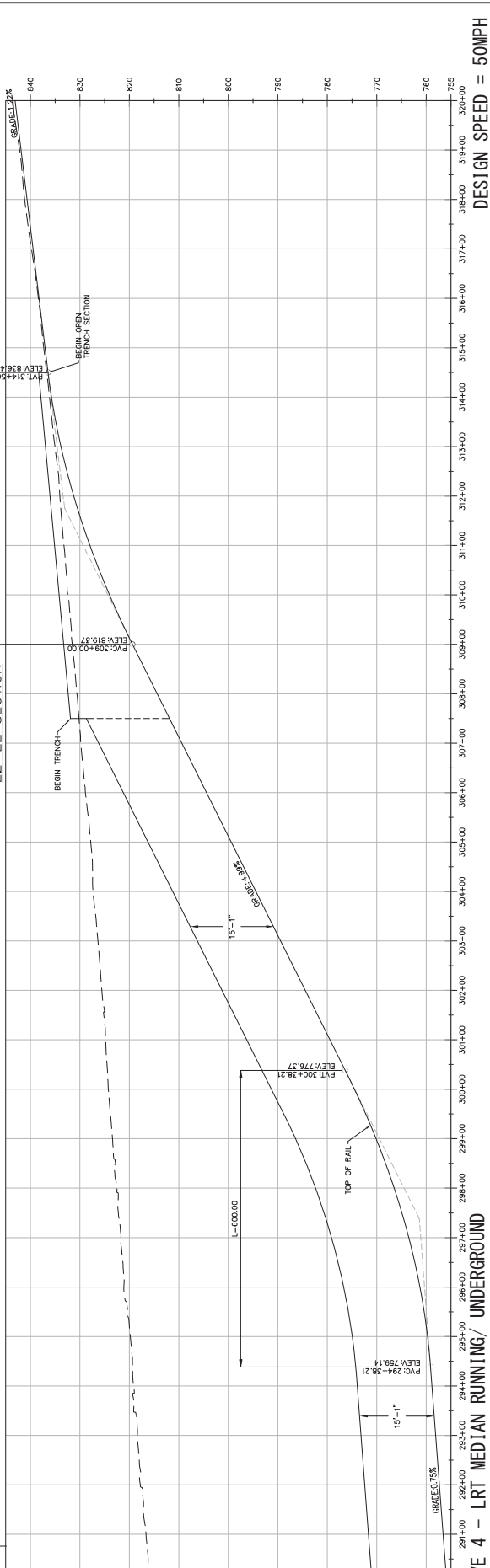
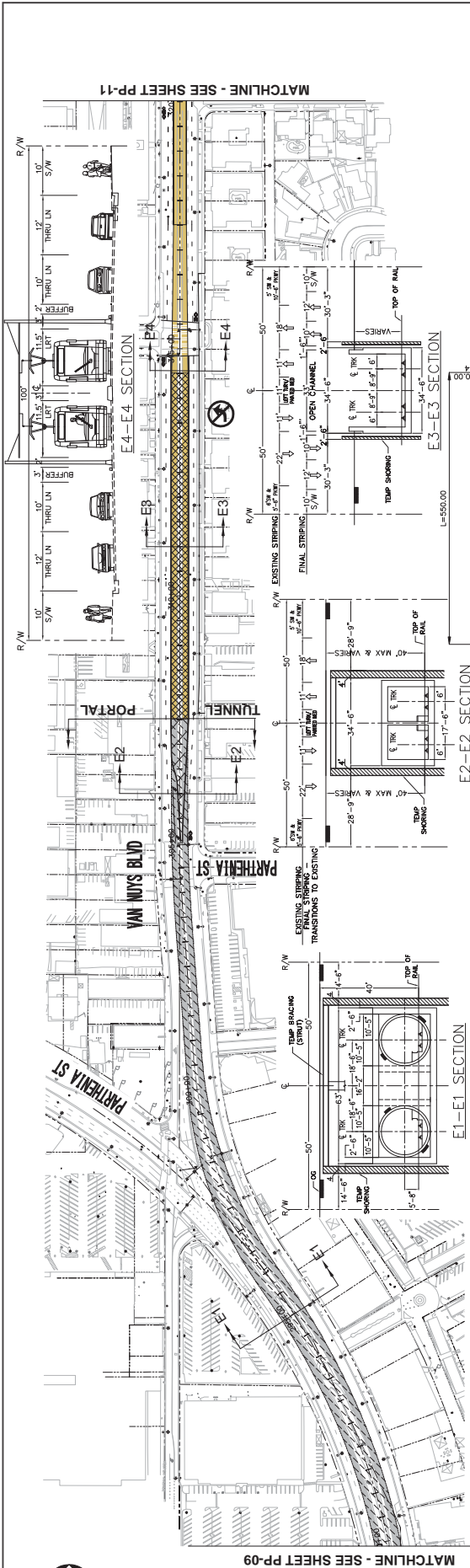
730  
720  
710  
700  
690  
680  
670  
660  
650  
640  
630  
620

260+00 261+00 262+00 263+00 264+00 265+00 266+00 267+00 268+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00

15'-1" TOP OF RAIL  
 15'-1" GRADE 0.75%

100' SCALE  
 0 10 20 30 40 50 60 70 80 90 100 FEET





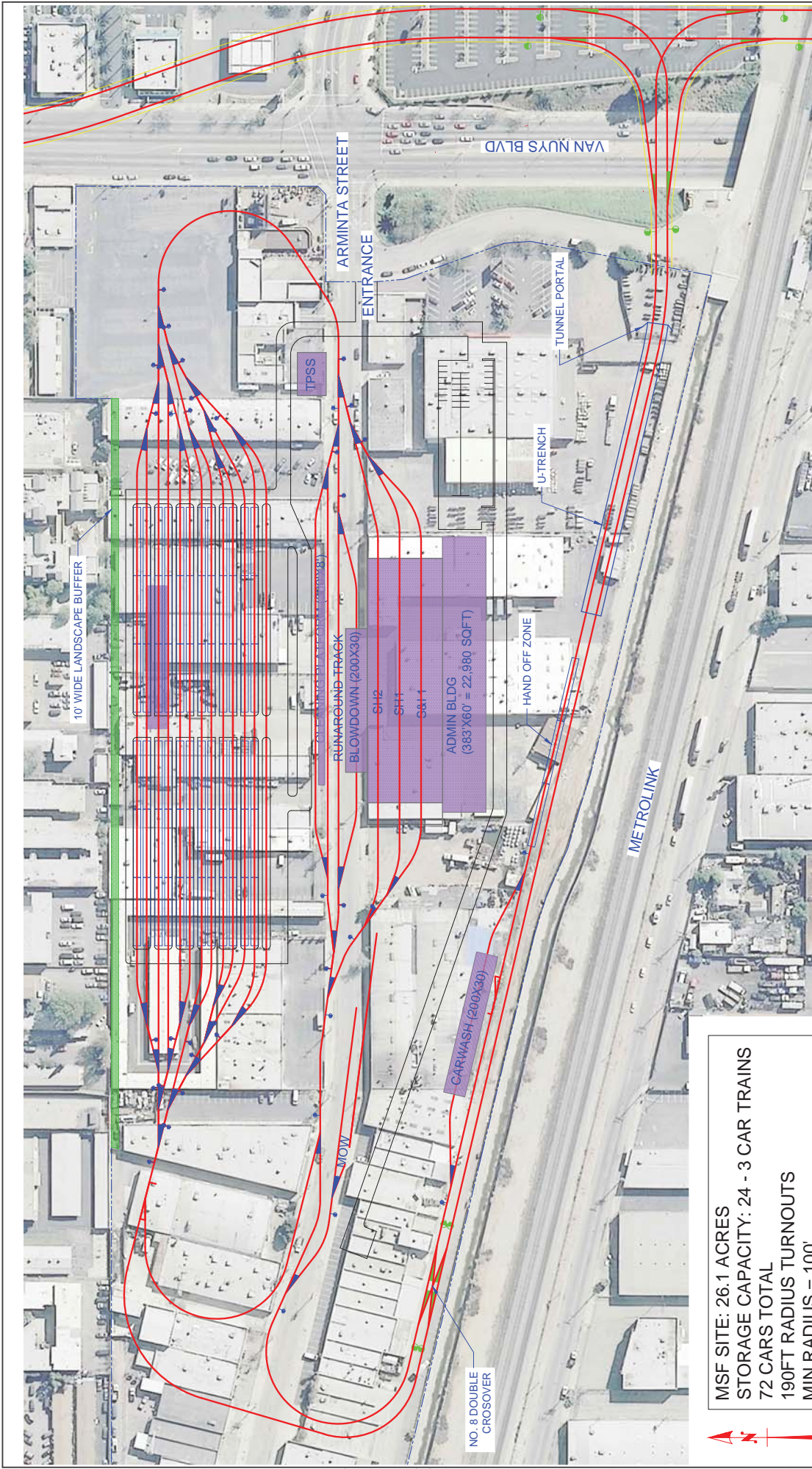
DESIGN SPEED = 50MPH

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> PLANNING & ENGINEERING <small>10000 Van Nuys Blvd, Suite 100, Van Nuys, CA 91411          Tel: (818) 250-2600 Fax: (818) 250-4108</small>		PROJECT MANAGER <small>MARK C. 1"=10'</small> <small>WENDY L. 1"=10'</small>	
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-10C SCALE: 1"=100' HORIZ.: 1"=100' VERT.: 1"=10' SHEET NO. 0		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 290+00 TO STA 320+00 OPTION C		INDEX NUMBER SHEET	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	REVISION DATE BY APP REB NO DWPES SEC. HOLDER	ORIGINAL MAP SCALE 1"=100'	SCALES HORIZ. 1"=100' VERT. 1"=10'		



MATCHLINE - SEE SHEET PP-09

MATCHLINE - SEE SHEET PP-11

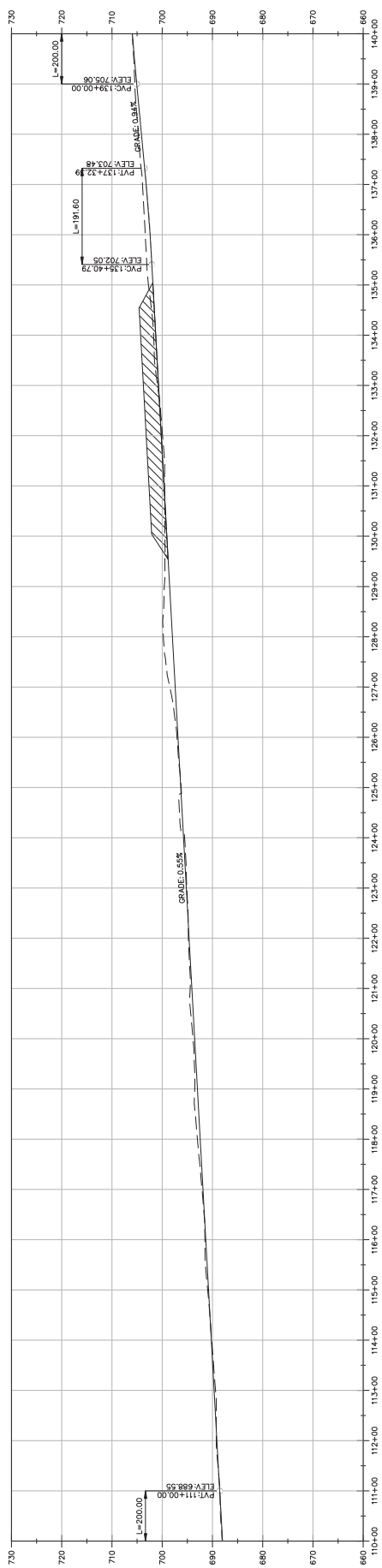
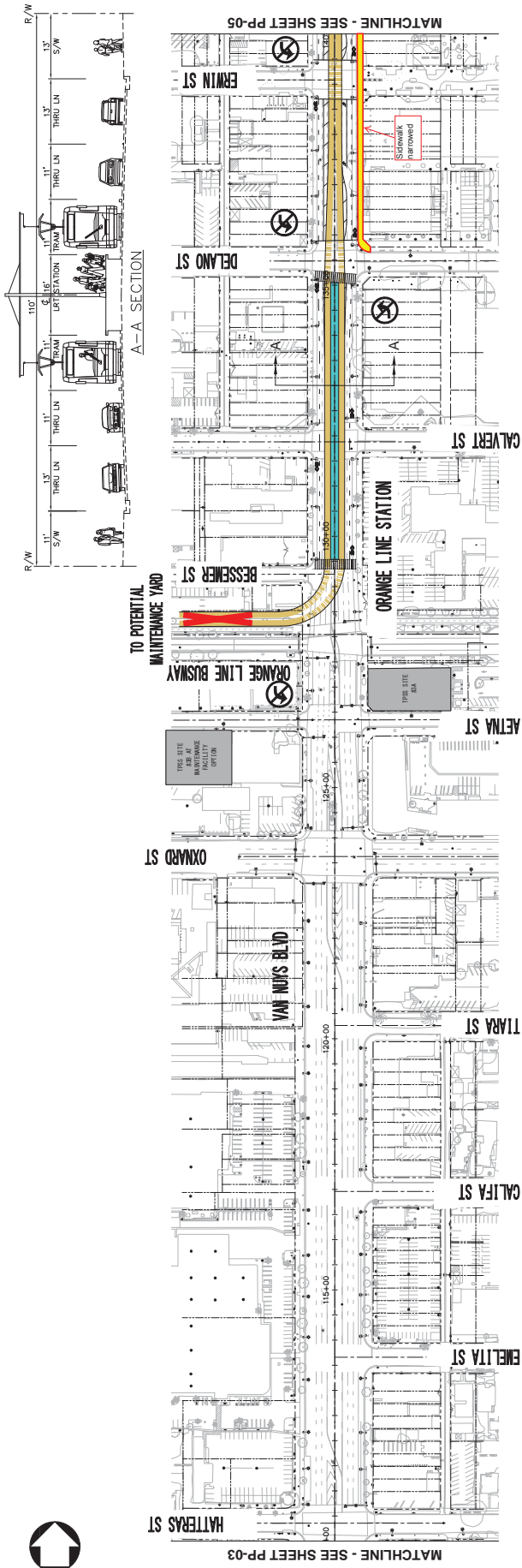


MSF SITE: 26.1 ACRES  
 STORAGE CAPACITY: 24 - 3 CAR TRAINS  
 72 CARS TOTAL  
 190FT RADIUS TURNOUTS  
 MIN RADIUS = 100'

60'

DESIGNED BY S. WALLON CHECKED BY M. SPENCE DATE 09/27/2014	PROJECT MANAGER M. SPENCE DATE 09/27/2014	CONTRACT NO. PS-4370-2622 DRAWING NO. 0 SCALE HORIZ: 1"=60' VERT: N/A SHEET NO.	EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE MAINTENANCE FACILITY ARMINTA ST - 3 CAR TRAINS SOUTH CONNECTION OPTION
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT <b>KOA CORPORATION</b> PLANNING & ENGINEERING 11000 Wilshire Blvd, Suite 201 Beverly Hills, California 90210 TEL: (310) 264-1700 Fax: (310) 264-1705	<b>STV</b> PROJECT MANAGER M. SPENCE DATE 09/27/2014	SCALES HORIZ: 1"=60' VERT: N/A	INDEX NUMBER SHEET

REV	DATE	BY	APP	REV NO	EXPRES	SCALE	REASON	DESCRIPTION



**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

DESIGNED BY	DRAWN BY	CHECKED BY	IN CHARGE	DATE	DESCRIPTION	SCALE	ISSUE
REV	DATE	BY	APP	REB NO	ISSUES	SCALE	ISSUE

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY  
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT**

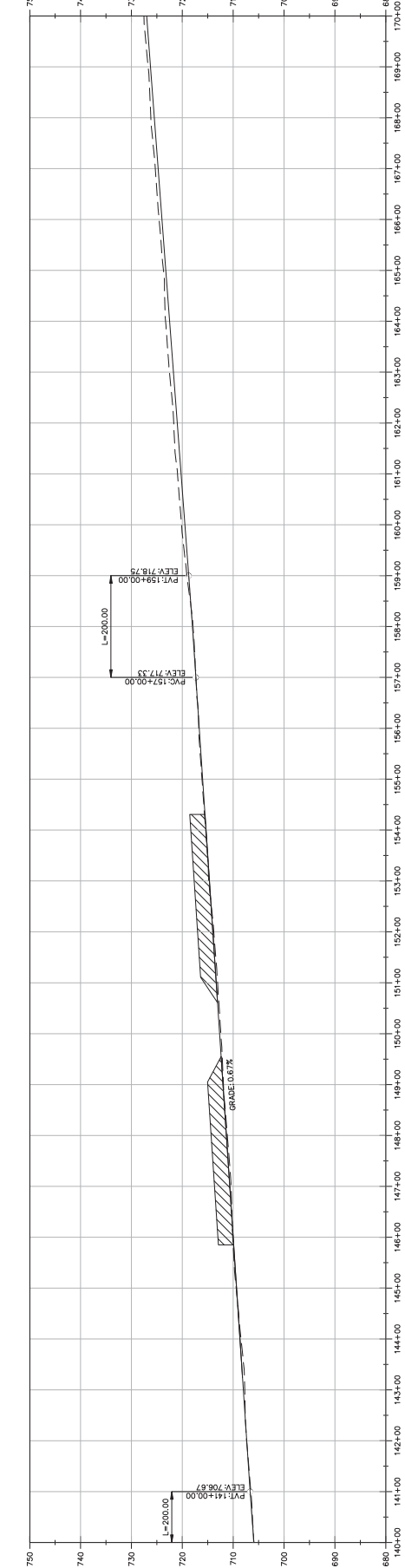
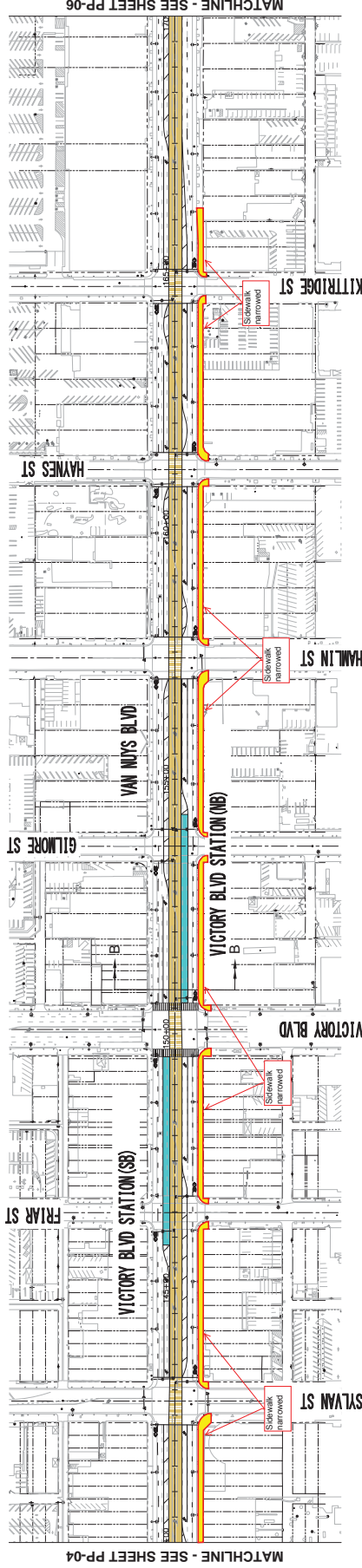
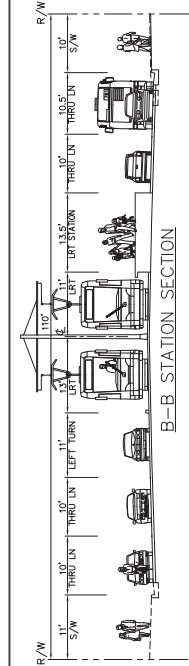
**KOA CORPORATION  
PLANNING & ENGINEERING**  
10000 Park Center Blvd, Suite 100  
Van Nuys, CA 91411  
Tel: (818) 282-4100 Fax: (818) 282-4108

**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR  
LIGHT RAIL TRANSIT ALTERNATIVE  
PLAN & PROFILE  
STA 110+00 TO STA 140+00**

**CONTRACT NO: PS-4370-2622  
DRAWING NO: PP-04  
SCALE: 1"=100'  
HORIZ: 1"=100'  
VERT: 1"=10'  
SHEET NO:**

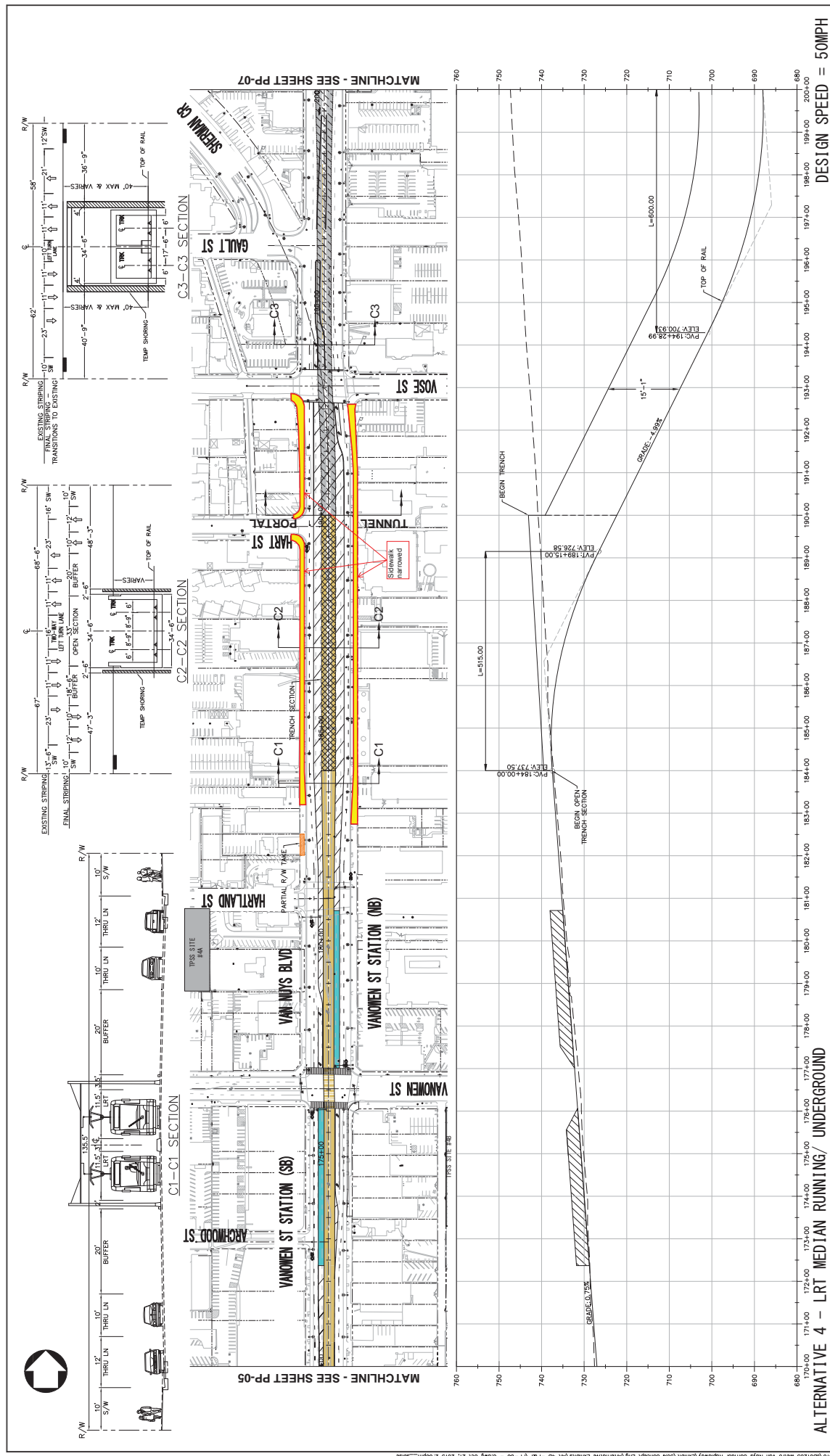
**PROJECT MANAGER: [Name] SCALE: 1"=100'  
SCALE: 1"=100'**

**INDEX NUMBER SHEET**



ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION	
REV	DATE	BY	APP	REV NO	DPWES	SEC. HOLDER					
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY          EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          15000 Van Nuys Blvd, Suite 200          Van Nuys, CA 91411          Tel: (818) 250-1700 Fax: (818) 250-1708</p>										<p>PROJECT MANAGER          NAME: C-1007          VERT: 1"=10'</p>	
<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR          LIGHT RAIL TRANSIT ALTERNATIVE          PLAN &amp; PROFILE          STA 140+00 TO STA 170+00</p>										<p>INDEX NUMBER          SHEET</p>	
<p>CONTRACT NO: PS-4370-2622          DRAWING NO: PP-05          SCALE: HORIZ: 1"=100'          VERT: 1"=10'</p>										<p>SCALE          HORIZ: 1"=100'          VERT: 1"=10'</p>	
<p>ORIGINAL MAP SCALE: 1"=500'</p>											



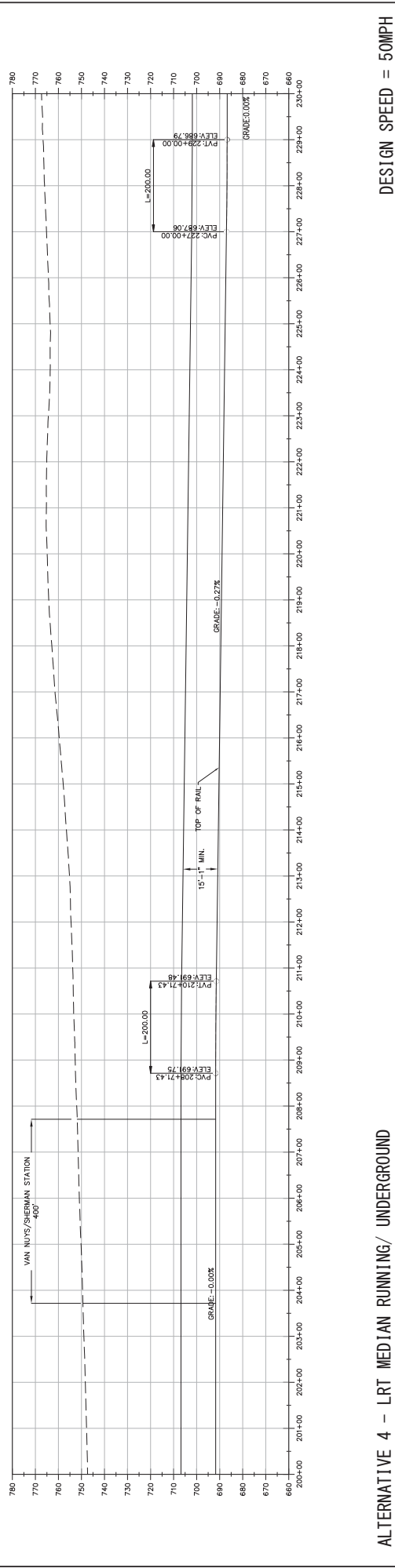
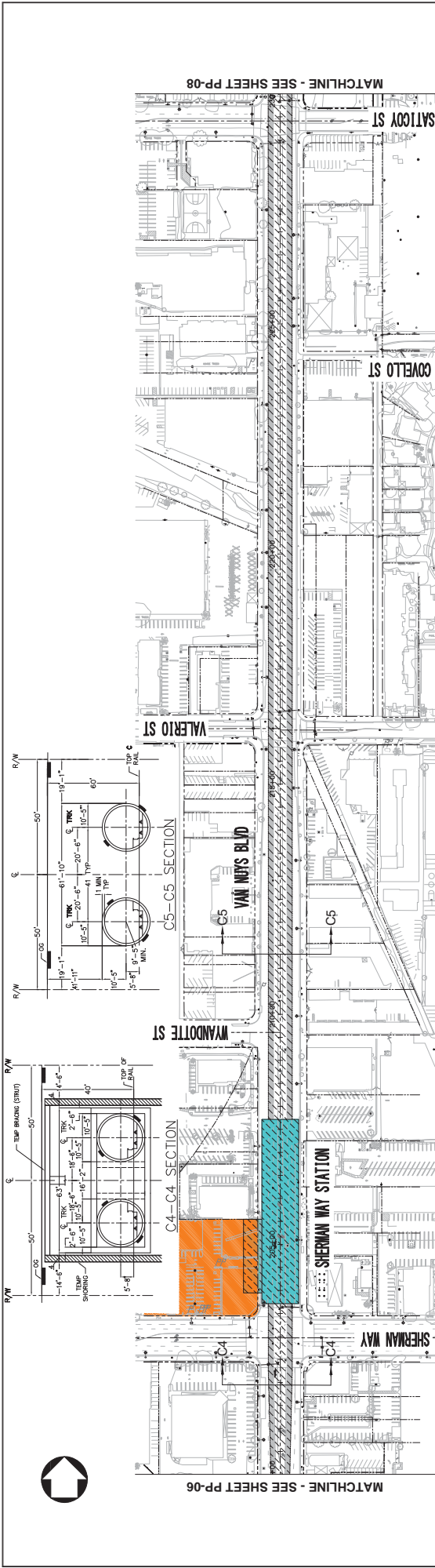
DESIGN SPEED = 50MPH

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> PLANNING & ENGINEERING <small>10000 Vanowen Street, Suite 200, Vanowen, CA 91387          Tel: (818) 252-1100 Fax: (818) 252-1108</small>	
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-06C SCALE: HORIZ. 1"=100' VERT. 1"=10'		PROJECT MANAGER: [Name] HORIZ. 1"=100' VERT. 1"=10'	
SHEET NO. [Blank]	SHEET INDEX NUMBER [Blank]	SCALE: 1"=100' VERT. 1"=10'	SHEET INDEX NUMBER [Blank]

**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

DESIGNED BY	DRAWN BY	CHECKED BY	IN CHARGE	DATE	DESCRIPTION	SCALE	HOLDER
REV	DATE	BY	APP	REASON	DATE	BY	

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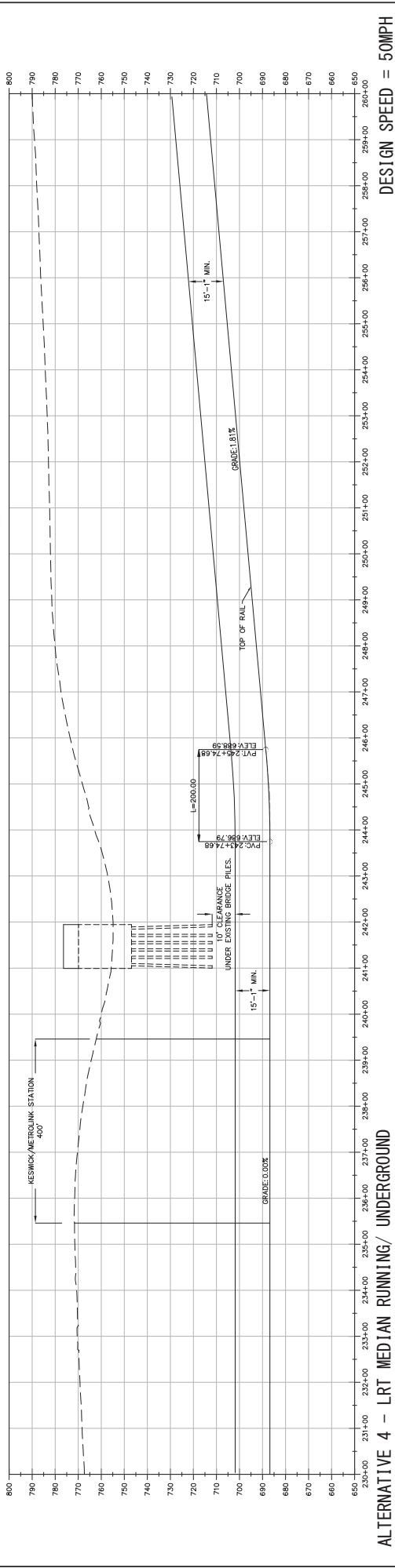
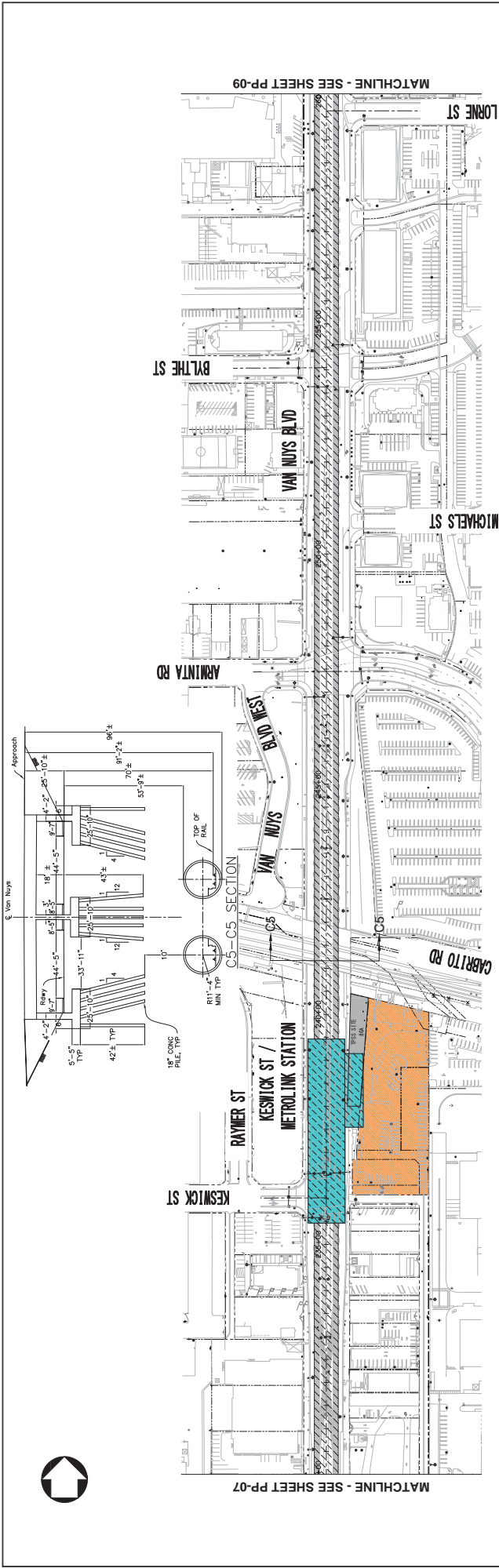


DESIGN SPEED = 50MPH

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> PLANNING & ENGINEERING <small>10000 Van Nuys Blvd, Suite 1000, Van Nuys, CA 91411          Tel: (818) 252-1100 Fax: (818) 252-1108</small>		PROJECT MANAGER <small>MARK T. COOPER</small>	SHEET INDEX NUMBER
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-07A SCALE: HORIZ. 1"=100' VERT. 1"=5'		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 200+00 TO STA 230+00 OPTION A		SCALES HORIZ. 1"=100' VERT. 1"=5'	SHEET INDEX NUMBER
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	REVISIONS NO. DATE BY APP. REB. NO. DOWNS SEC. HOLDER	ORIGINAL MAP SCALE 1"=50' 1"=50'	0 10 20 30 40 50 60 70 80 90 100 FEET	PROJECT MANAGER <small>MARK T. COOPER</small>	SHEET INDEX NUMBER

ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

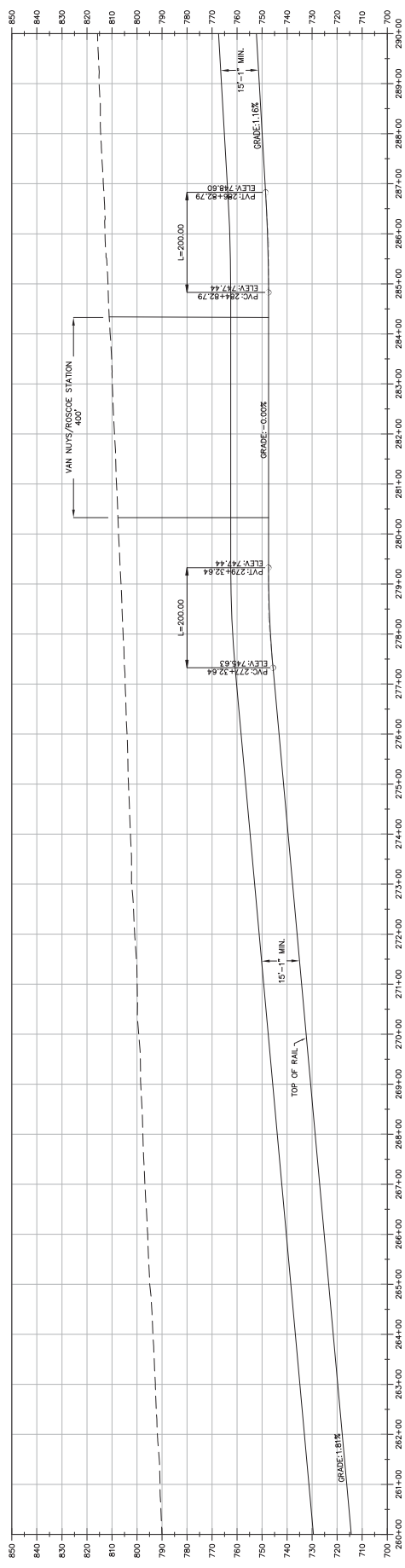
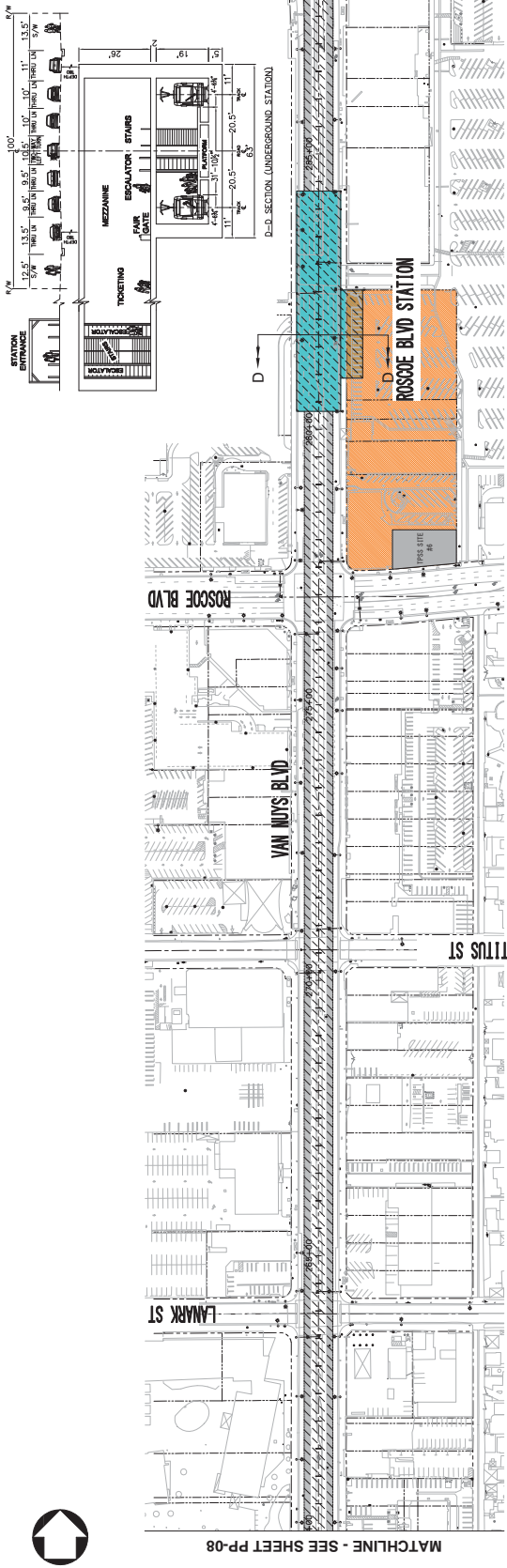




DESIGN SPEED = 50MPH

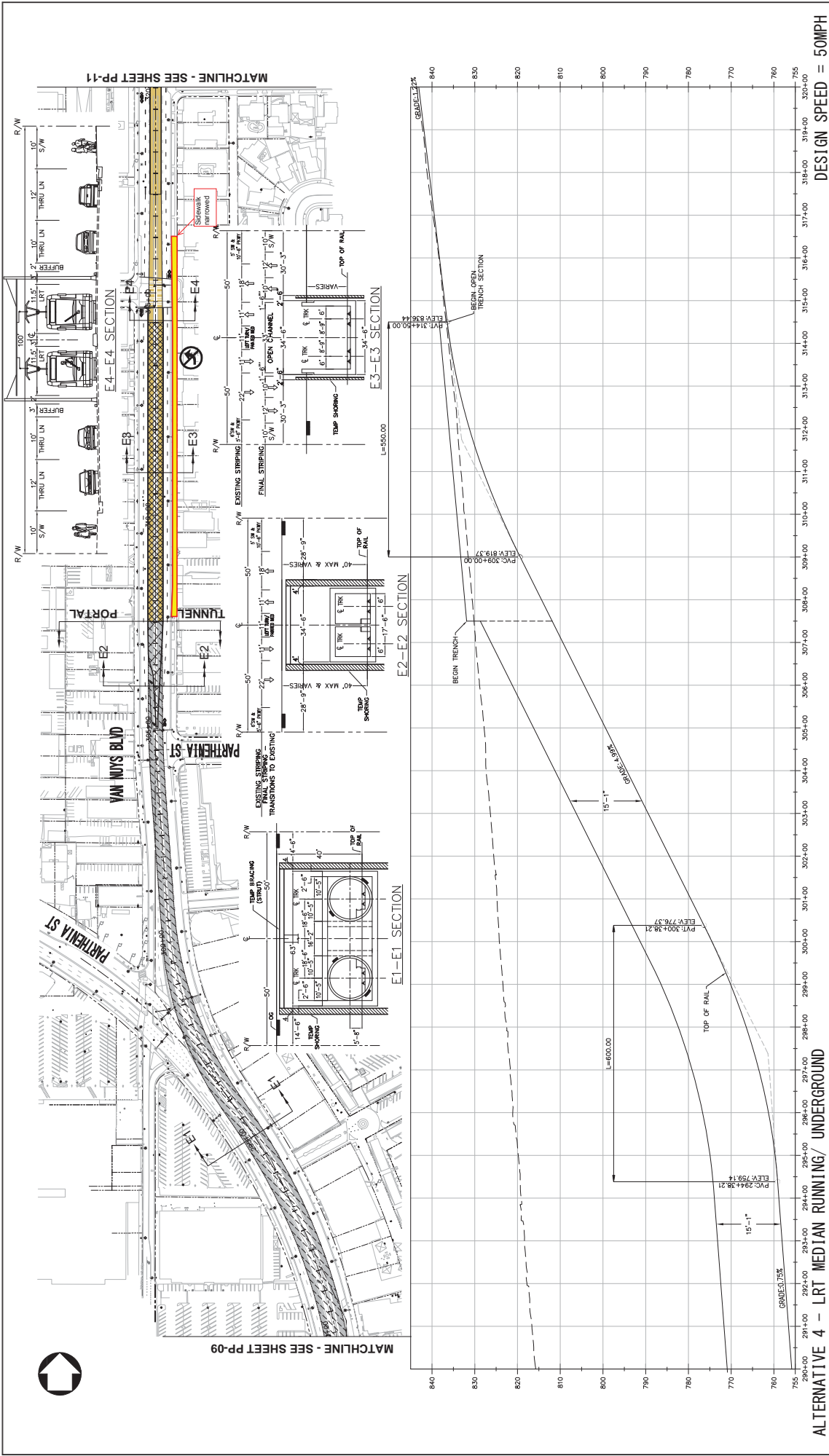
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-08A SCALE: HORIZ. 1"=100' VERT. 1"=5'		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 230+00 TO STA 260+00 OPTION A	
PROJECT MANAGER KEO CORPORATION PLANNING & ENGINEERING 10000 Van Nuys Blvd, Suite 100 Van Nuys, CA 91411 Tel: (818) 245-1100 Fax: (818) 245-1108		PROJECT MANAGER KEO CORPORATION PLANNING & ENGINEERING 10000 Van Nuys Blvd, Suite 100 Van Nuys, CA 91411 Tel: (818) 245-1100 Fax: (818) 245-1108	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	REVISION NO. DATE BY APP. REVISION NO. DATE BY APP.	SCALE HORIZ. 1"=100' VERT. 1"=5'	SHEET INDEX NUMBER

ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND



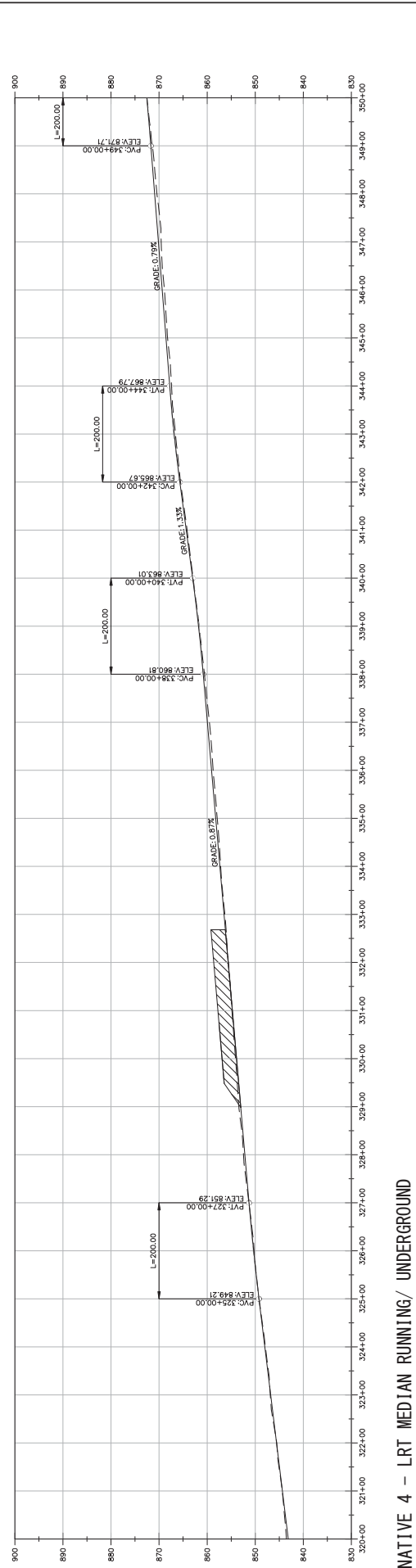
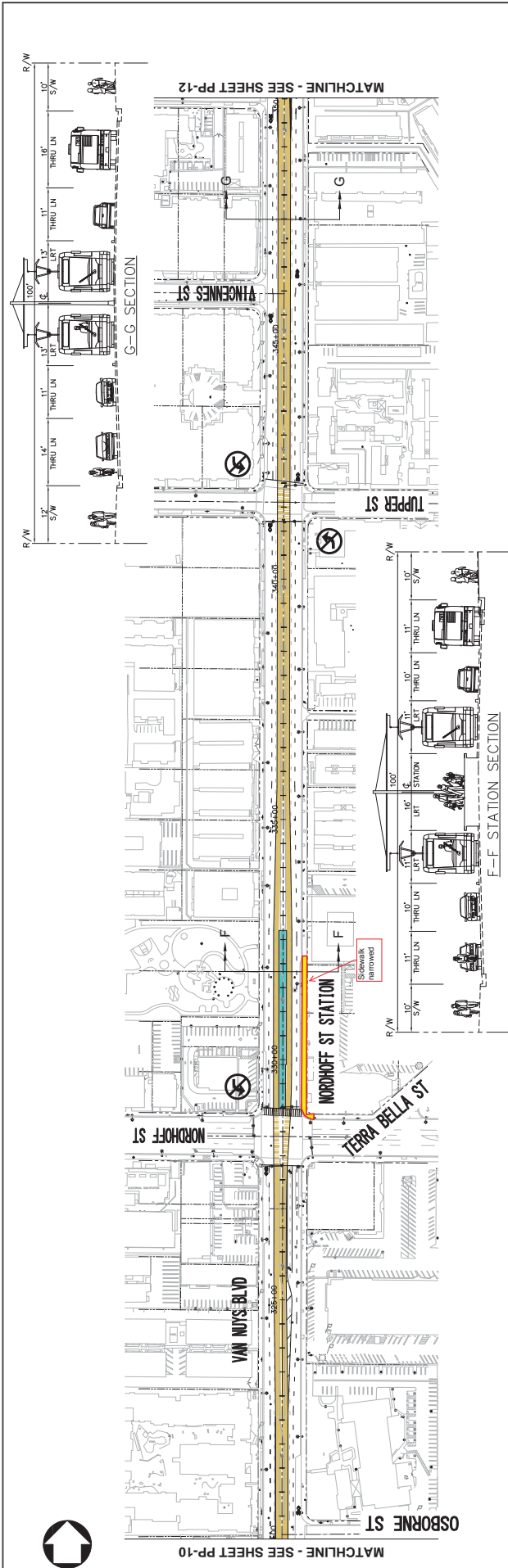
ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND DESIGN SPEED = 50MPH

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> <small>PLANNING &amp; ENGINEERING</small> <small>10000 Park Colorado Blvd, Suite 301</small> <small>Van Nuys, CA 91411</small> <small>TEL: (818) 265-1100 FAX: (818) 265-1108</small>		PROJECT MANAGER <small>MARK T. COFF</small> <small>VERT. 1"=10'</small>	<b>SHEET</b> <b>INDEX NUMBER</b>					
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-09A SCALE: HORIZ. 1"=100' VERT. 1"=5'		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 260+00 TO STA 290+00 OPTION A		SCALE: HORIZ. 1"=100' VERT. 1"=10' PROJECT MANAGER <small>MARK T. COFF</small> <small>VERT. 1"=10'</small>						
REV.	DATE	BY	APP.	DES. HOLDER	SEC. HOLDER	DWG. NO.	REV. NO.	DWG. DATE	DWG. SCALE	DWG. SCALE



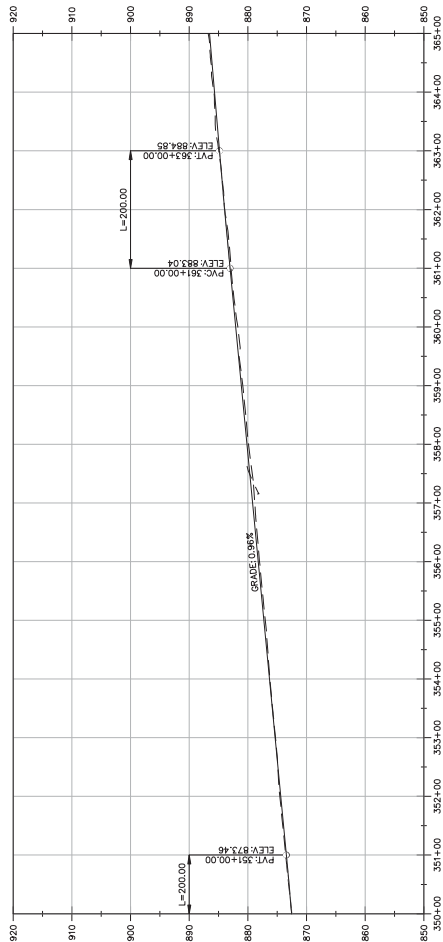
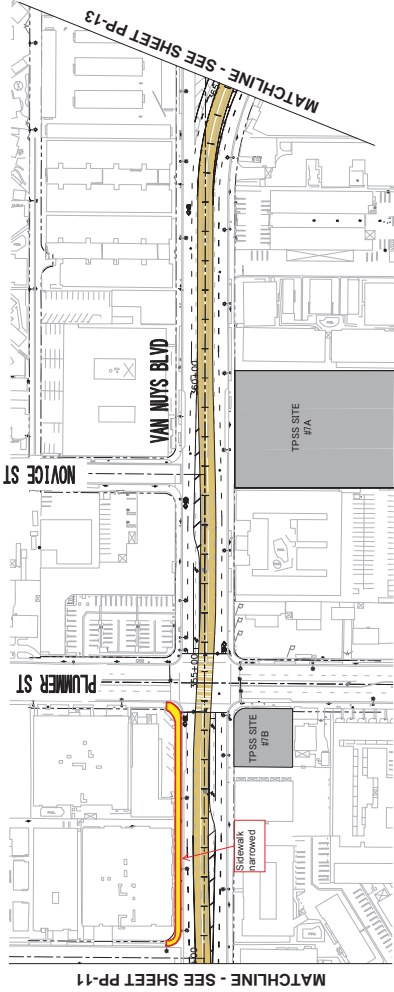
DESIGN SPEED = 50MPH

<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>		<b>KOA CORPORATION</b> PLANNING & ENGINEERING <small>10000 Vanowen Street, Suite 200, Van Nuys, CA 91411          Tel: (818) 250-1000 Fax: (818) 250-1008</small>		PROJECT MANAGER <small>MARK C. 1"=10'</small> <small>WERT 1"=10'</small>	
CONTRACT NO. PS-4370-2622 DRAWING NO. PP-10C SCALE: HORIZ. 1"=100' VERT. 1"=10'		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 290+00 TO STA 320+00 OPTION C		SHEET INDEX NUMBER	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	REVISIONS NO.   DATE   BY   APP   REASON	SECTION SCALE: 1"=100' ORIGINAL MAP SCALE: 1"=100'	SCALE HORIZ. 1"=100' VERT. 1"=10'	SHEET INDEX NUMBER	



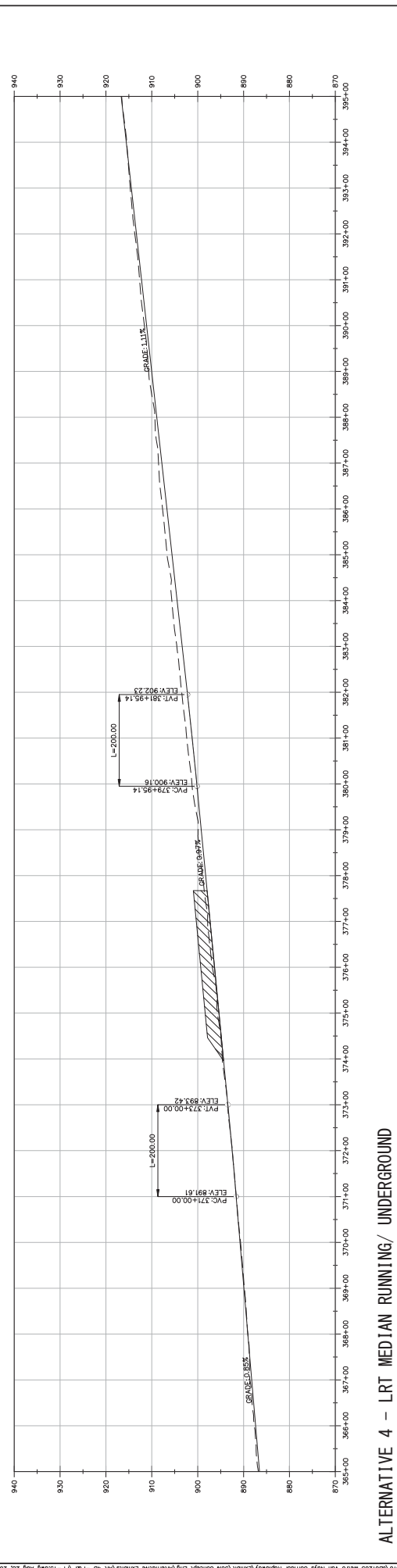
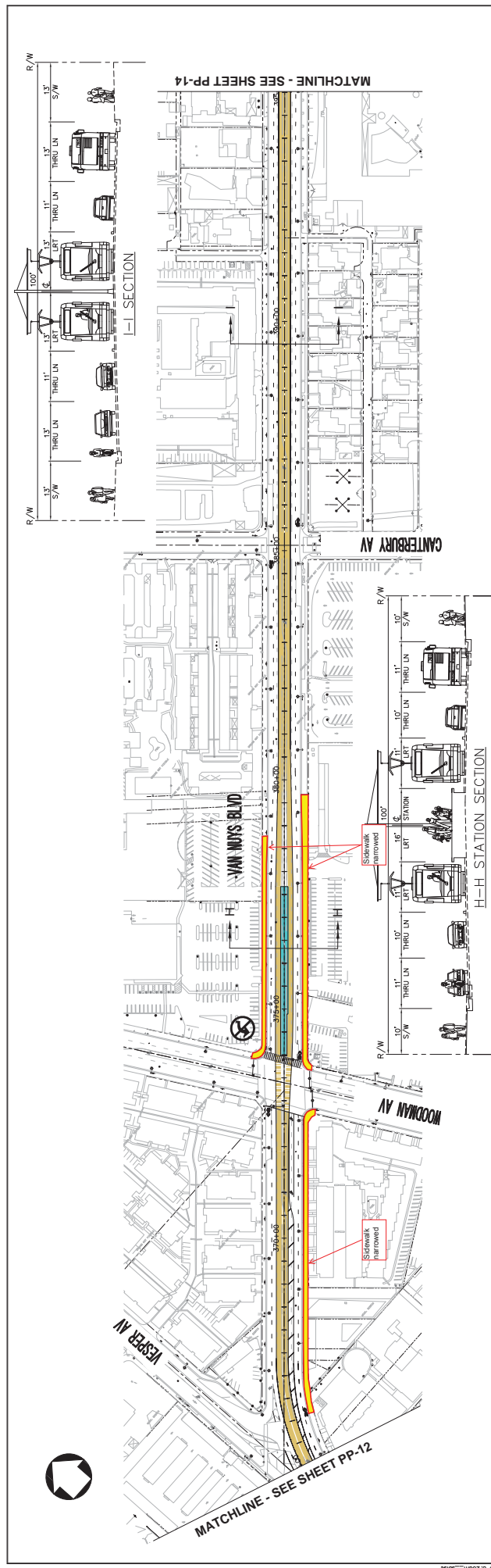
ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY	DRAWN BY	CHECKED BY	IN CHARGE	DATE	DESCRIPTION	SCALE	ISSUED	DATE
REV	DATE	BY	APP	REASON	DATE	SCALE	ISSUED	DATE
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b> PLANNING &amp; ENGINEERING 10000 Van Nuys Blvd., Suite 1000 Van Nuys, CA 91411 Tel: (818) 225-1000 Fax: (818) 225-1008</p>					<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN &amp; PROFILE STA 320+00 TO STA 350+00</p>			
<p>CONTRACT NO. PS-4370-2622 DRAWING NO. PP-11 SCALE: 1"=100' HORIZ: 1"=100' VERT: 1"=10'</p>					<p>INDEX NUMBER</p>			
<p>PROJECT MANAGER: [Name] SCALE: 1"=100' VERT: 1"=10'</p>					<p>SHEET</p>			



# ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE DESCRIPTION SEC. HOLDER DPNRES REG. NO APP DATE REV	<b>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</b> <b>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</b>  <b>KOA CORPORATION</b> <small>PLANNING &amp; ENGINEERING</small> <small>4400 Wilshire Blvd., Suite 300, Beverly Hills, CA 90210</small> <small>Mobile: (310) 860-1400 Fax: (310) 262-4068</small>	CONTRACT NO. PS-4370-2622 DRAWING NO. PP-12 SCALE HORIZ: 1"=100' VERT: 1"=10' SHEET NO.	EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 350+00 TO STA 365+00 <b>INDEX NUMBER</b>
<b>PROJ. MANAGER</b> <small>SCALE</small> 1"=100' <small>VERT.</small> 1"=10' 		<b>SHEET</b>	<b>INDEX NUMBER</b>



**ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND**

DESIGNED BY	DRAWN BY	CHECKED BY	IN CHARGE	DATE	DESCRIPTION	SCALE	SECTION	SCALE	INDEX NUMBER
REV	DATE	BY	APP	REV NO	DPWES	SCALE	HOLDER	SCALE	INDEX NUMBER

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  
**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT**

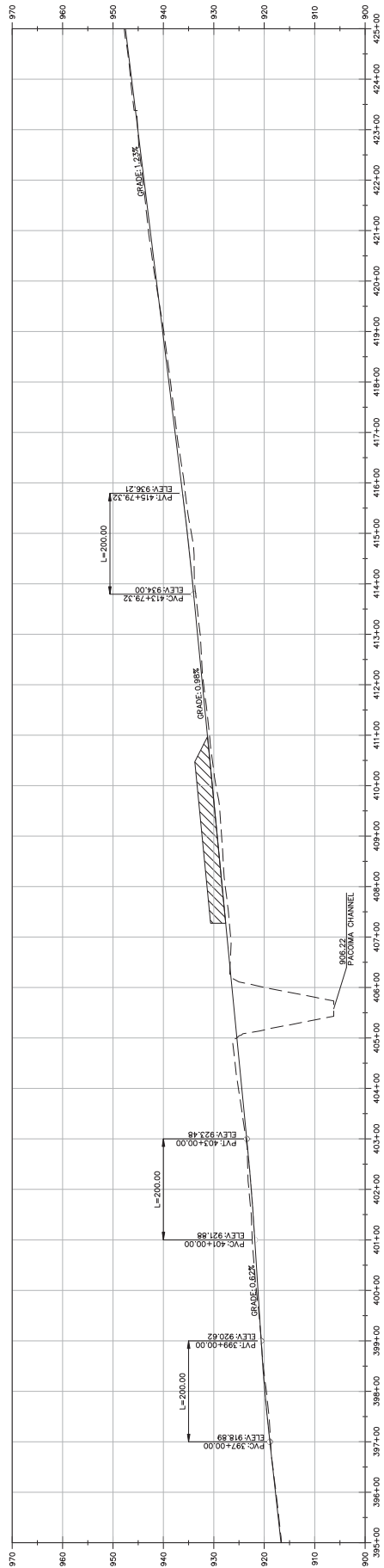
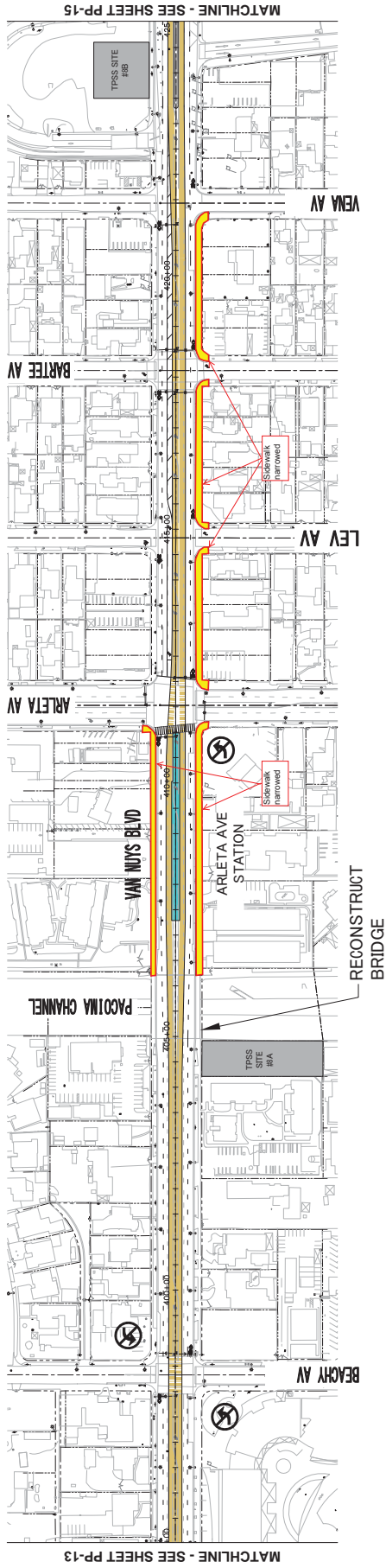
**KOA CORPORATION**  
 PLANNING & ENGINEERING  
 10000 Van Nuys Blvd, Suite 100  
 Van Nuys, CA 91411  
 Tel: (818) 252-2600 Fax: (818) 252-4108

**EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR**  
**LIGHT RAIL TRANSIT ALTERNATIVE**  
**PLAN & PROFILE**  
**STA 365+00 TO STA 395+00**

CONTRACT NO: PS-4370-2622  
 DRAWING NO: PP-13  
 SCALE: HORIZ: 1"=100'  
 VERT: 1"=10'  
 SHEET NO: 0

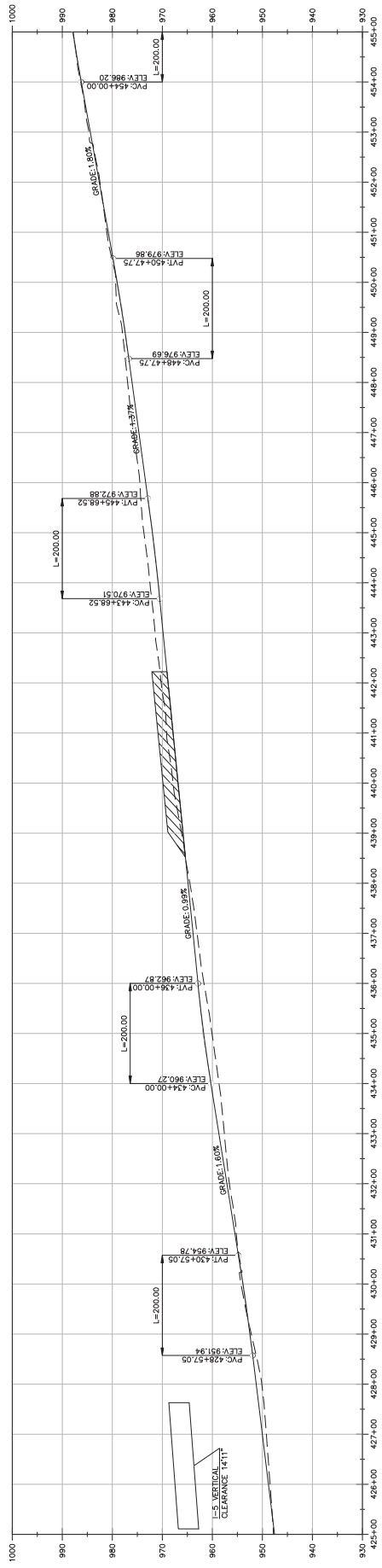
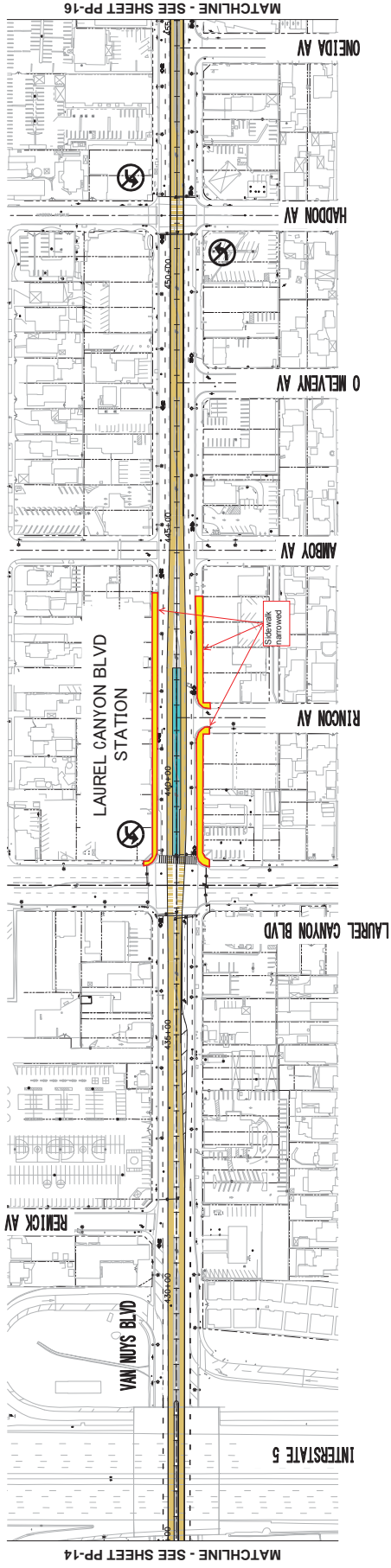
PROJECT MANAGER: [Name]    HORIZ: 1"=100'    VERT: 1"=10'

ORIGINAL MAP SCALE: 1"=200'    HORIZ: 1"=100'    VERT: 1"=10'



ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

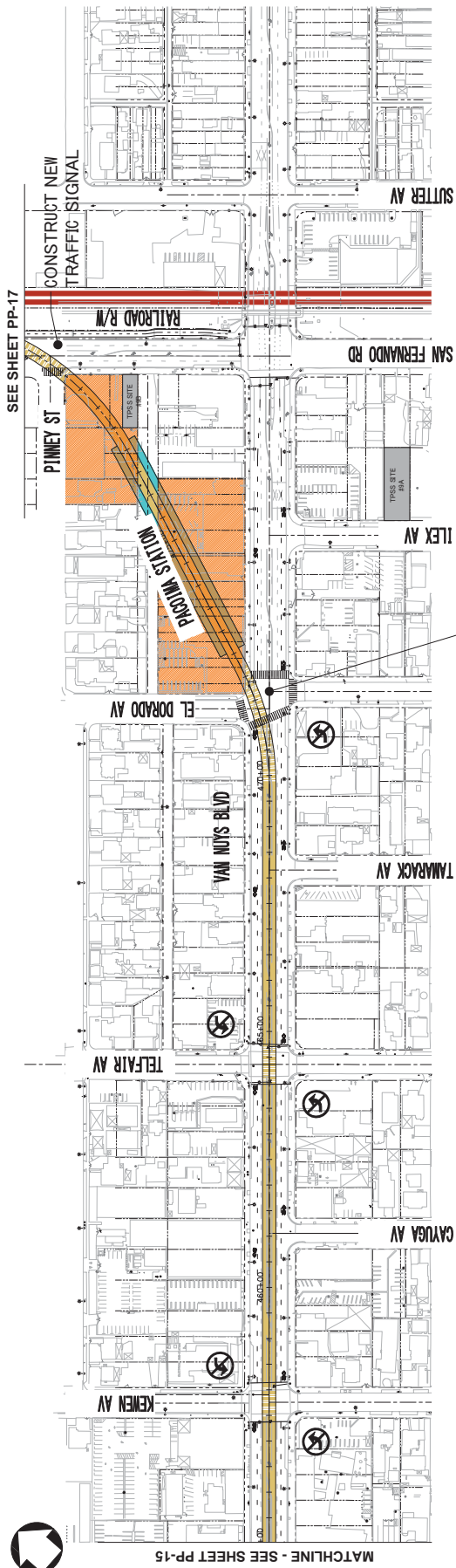
DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION		SCALE		HOLDER		OWNER		DATE		REV	
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY          EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          14000 Van Nuys Blvd., Suite 100          Van Nuys, CA 91411          Tel: (818) 252-1100 Fax: (818) 252-1108</p>										<p>PROJECT MANAGER          NAME: T. MOY          TITLE: T. MOY</p>		<p>SCALE          HORIZ: 1"=100'          VERT: 1"=10'</p>		<p>SHEET NUMBER          INDEX NUMBER</p>							
<p>CONTRACT NO: PS-4370-2622          DRAWING NO: PP-14          SCALE: PP-14          SHEET NO: 0</p>										<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR          LIGHT RAIL TRANSIT ALTERNATIVE          PLAN &amp; PROFILE          STA 395+00 TO STA 425+00</p>											



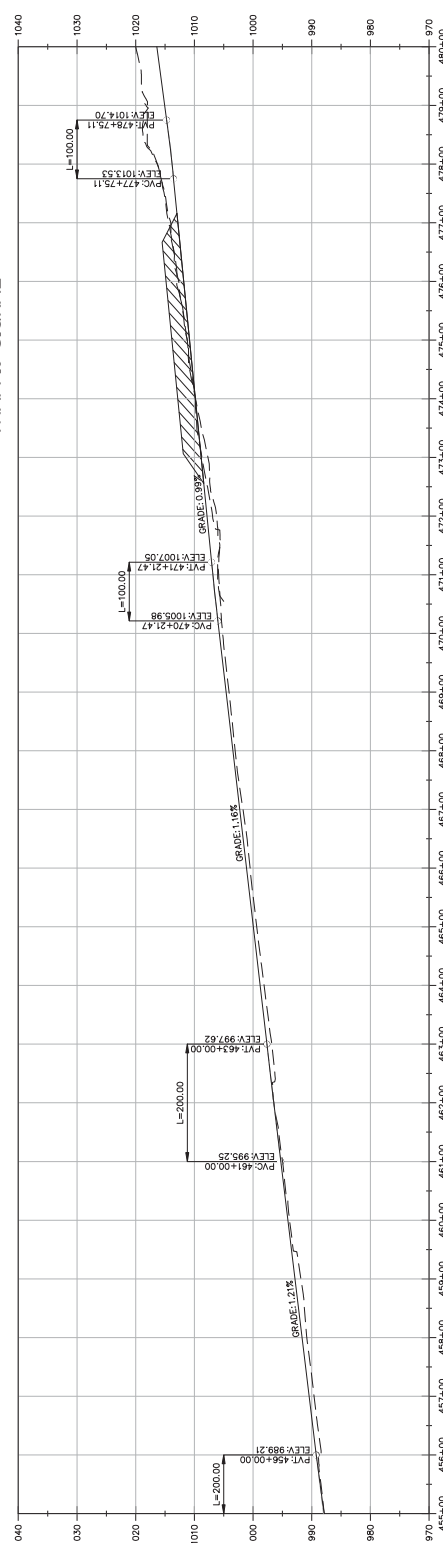
ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION		SCALE		SCALE		INDEX NUMBER							
										SECTION		1" = 10'		1" = 10'		SHEET							
REV		DATE		BY		APP		REV NO		DOWNS		SCALE		SCALE		INDEX NUMBER							
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY          EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          10000 Van Nuys Blvd., Suite 1000, Van Nuys, CA 91411          Tel: (818) 250-1100 Fax: (818) 250-1108</p>												<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR          LIGHT RAIL TRANSIT ALTERNATIVE          PLAN &amp; PROFILE          STA 425+00 TO STA 455+00</p>						<p>CONTRACT NO: PS-4370-2622          DRAWING NO: PP-15          SCALE: HORIZ: 1" = 100'          VERT: 1" = 10'          SHEET NO: 0</p>					



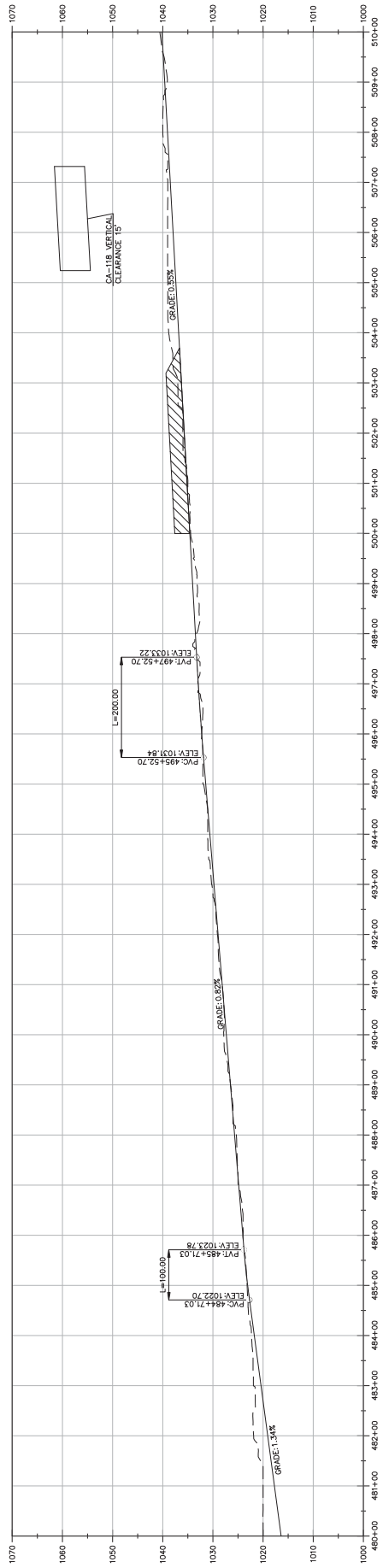
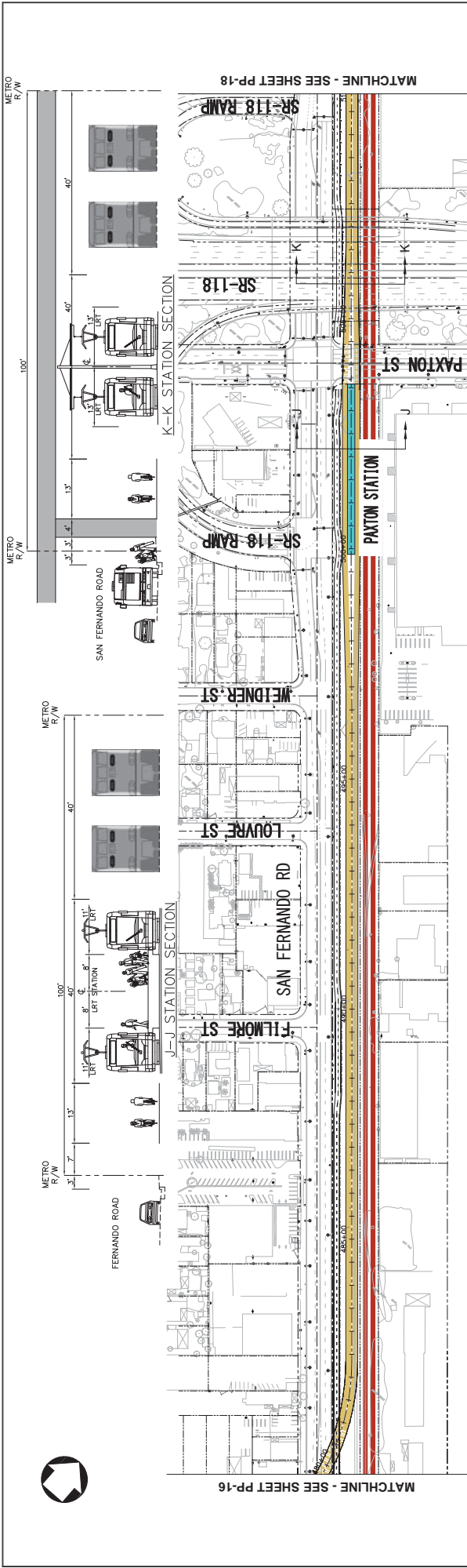


CONSTRUCT NEW TRAFFIC SIGNAL



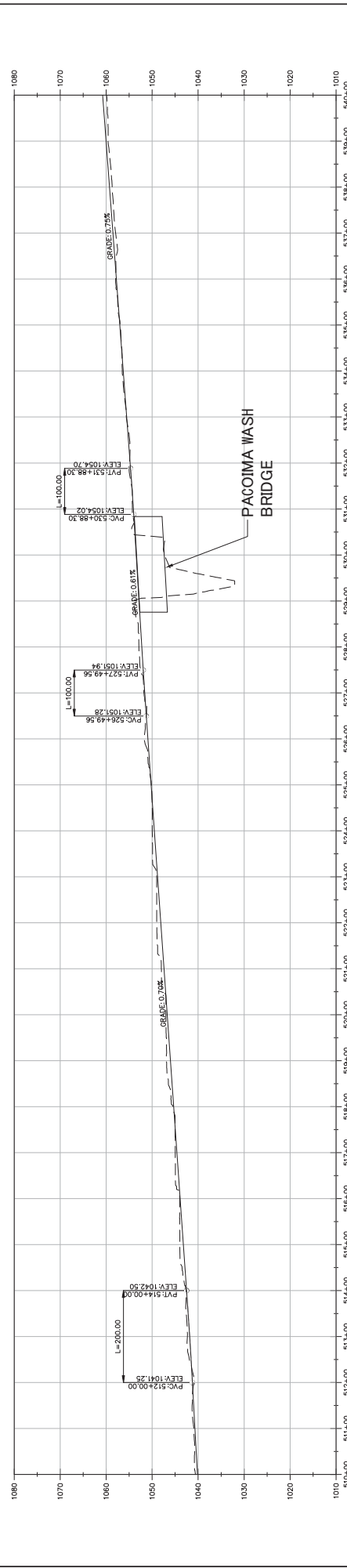
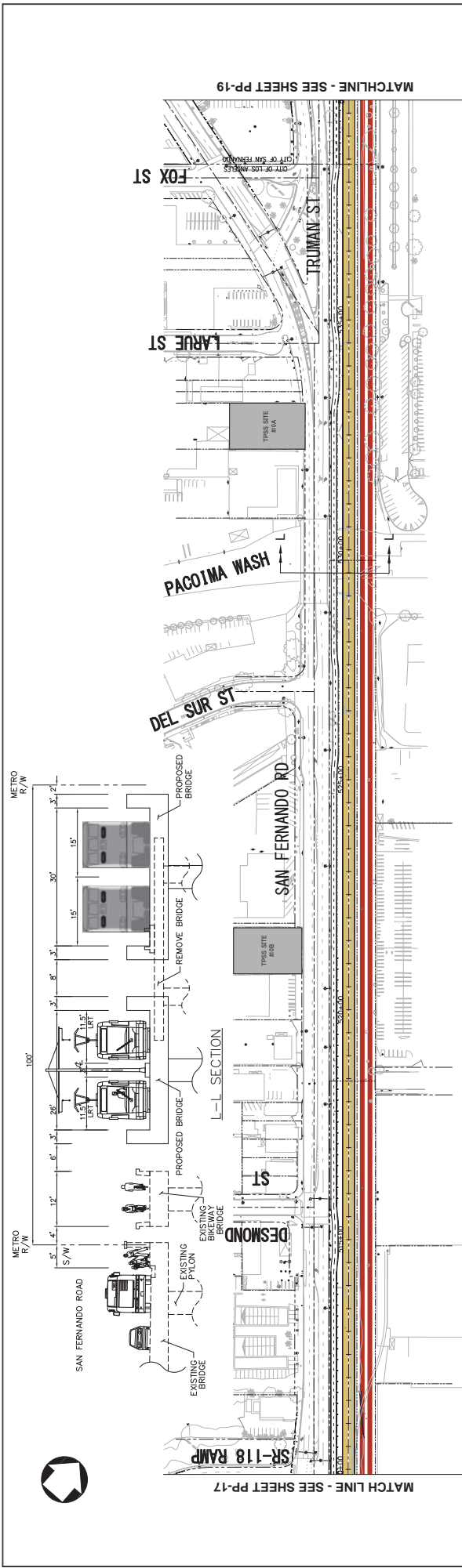
ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE		PROJECT MANAGER PROJECT NO. SHEET NO.	
REVISIONS NO.   DATE   BY   APP   REASON		CONTRACT NO. PS-4370-2622 DRAWING NO. PP-16 SCALE: HORIZ. 1"=100' VERT. 1"=10' SHEET NO.	
DESCRIPTION ORIGINAL MAP SCALE: 1"=200' SCALE: 1"=100'		LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT EAST SAN FERNANDO VALLEY TRANSIT ALTERNATIVE PLAN & PROFILE STA 455+00 TO STA 480+00	
SEC. HOLDER DWPRES APP REV NO.		SCALES HORIZ. 1"=100' VERT. 1"=10'	
INDEX NUMBER		SHEET	



ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

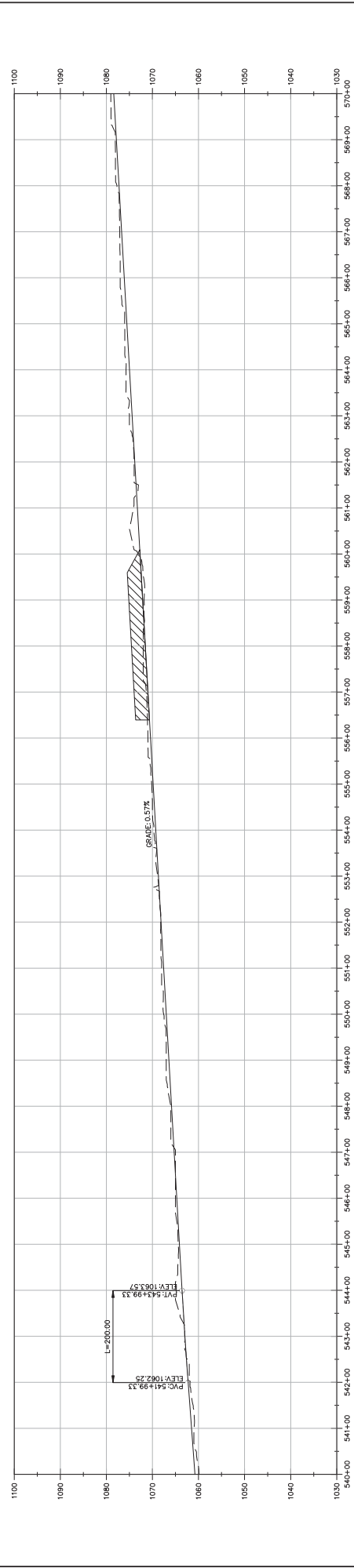
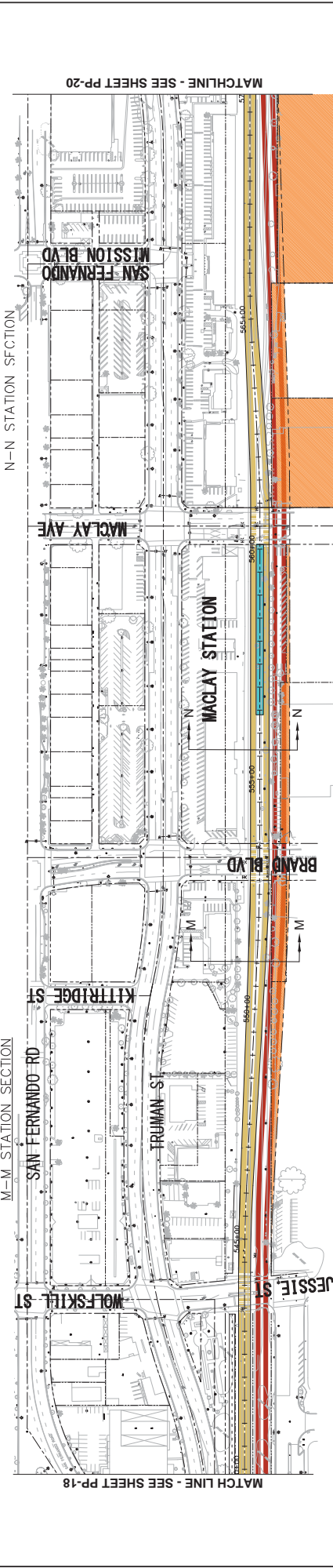
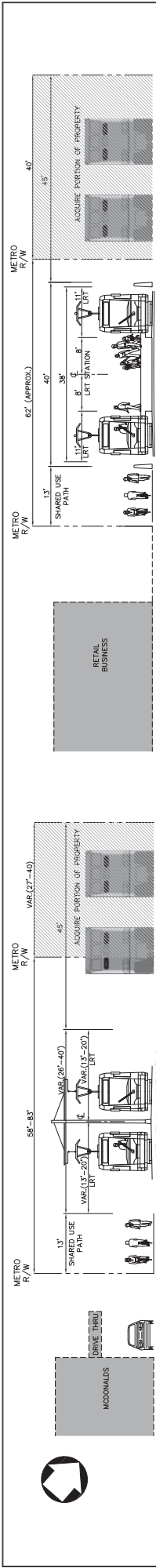
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE DESCRIPTION SEC. HOLDER DWNES REV. DATE BY APP. REV. NO.	LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT PLANNING & ENGINEERING 14000 Park Colorado #1025 Van Nuys, CA 91411 Tel: (818) 262-4100 Fax: (818) 262-4108	CONTRACT NO. PS-4370-2622 DRAWING NO. PP-17 SCALE: 1"=100' HORIZ. 1"=100' VERT. 1"=10' SHEET NO. 0	EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 480+00 TO STA 510+00	PROJECT MANAGER MARK T. 100' VERT. 1"=10' SCALES HORIZ. 1"=100' VERT. 1"=10' SHEET INDEX NUMBER
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ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

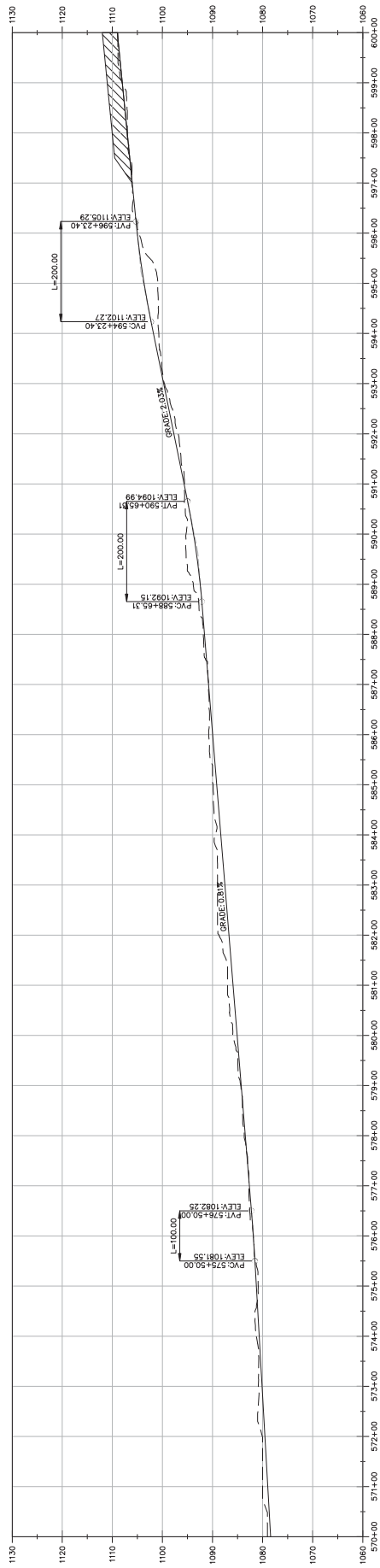
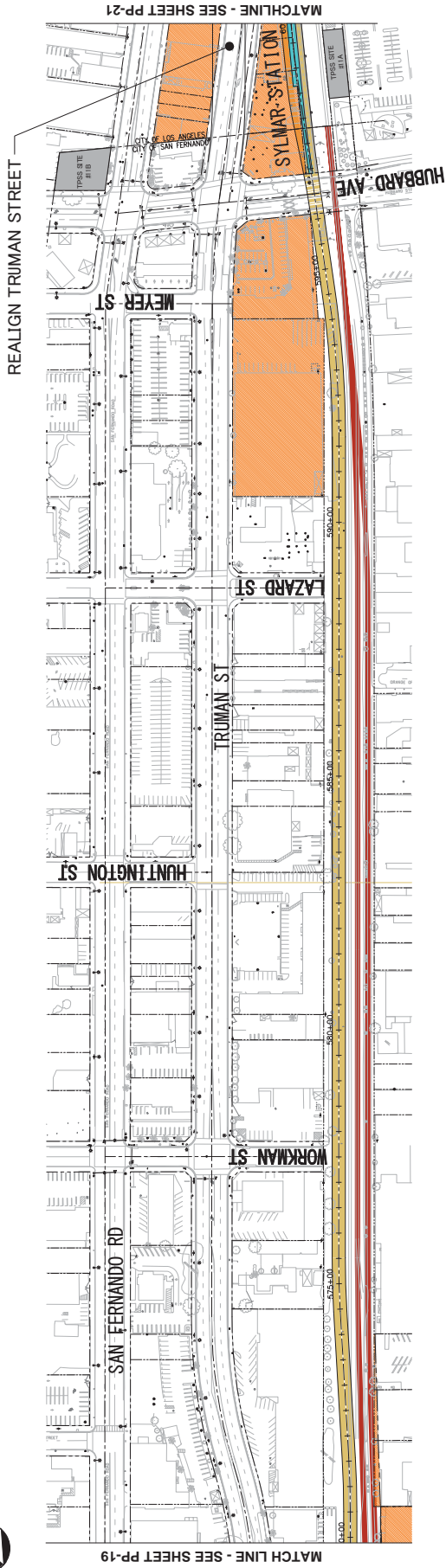
DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION		SCALE		INDEX NUMBER	
REV	DATE	BY	APP	REV NO	DATE	BY	APP	SCALE	INDEX NUMBER						
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY          EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          10000 Wilshire Blvd, Suite 1000          Los Angeles, CA 90024          Tel: (310) 262-1000 Fax: (310) 262-1008</p>												<p>CONTRACT NO: PS-4370-2622          DRAWING NO: PP-18          SCALE: HORIZ: 1"=100'          VERT: 1"=10'          SHEET NO: 0</p>			
<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR          LIGHT RAIL TRANSIT ALTERNATIVE          PLAN &amp; PROFILE          STA 510+00 TO STA 540+00</p>												<p>PROJECT MANAGER: [Name]          HORIZ: 1"=100'          VERT: 1"=10'</p>			
<p>ORIGINAL MAP SCALE: 1"=100'</p>												<p>SCALE: 1"=100'</p>			

CADD PROJECT FILE NAME: Y:\2010\801205 Metro Van Nuys Center Rpt\pp\exhibit\2005 Concept Eng\2\Alternative Exhibit\Alt 4B - SR-118-18.dwg Aug 28, 2014 8:22am...\_job4



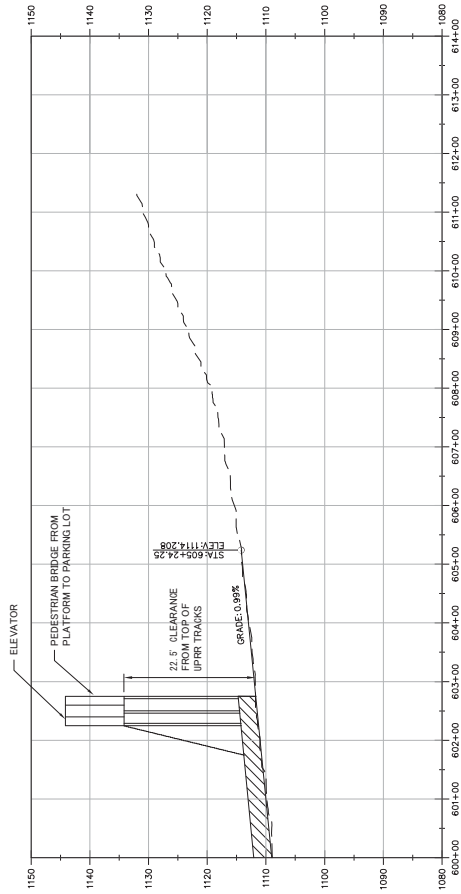
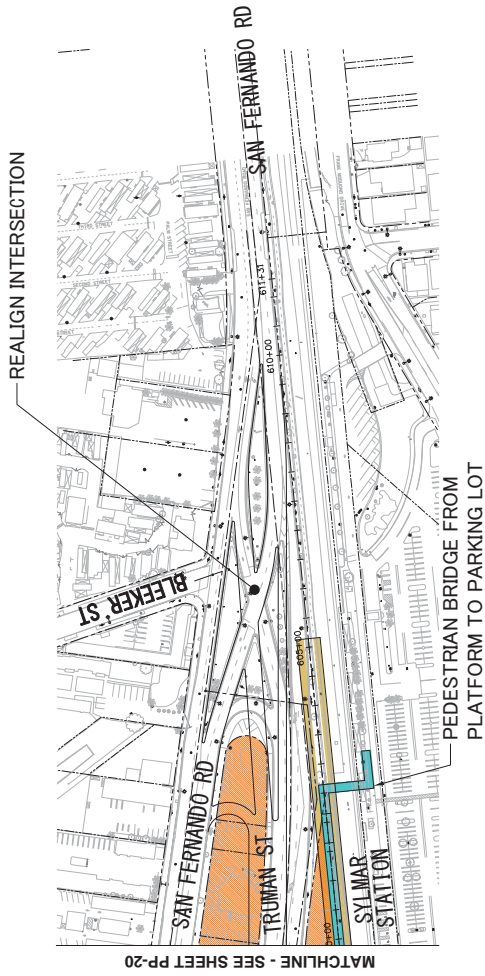
ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION		SCALE		INDEX NUMBER	
REV	DATE	BY	APP	REV NO	DPWES	SCALE	HOLDER	PROJECT MANAGER		SCALE		SHEET		INDEX NUMBER	
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY          EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          14000 Vanowen Street, Suite 100          Van Nuys, CA 91411          Tel: (818) 252-2800 Fax: (818) 252-4108</p>												<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR          LIGHT RAIL TRANSIT ALTERNATIVE          PLAN &amp; PROFILE          STA 540+00 TO STA 570+00</p>			
<p>CONTRACT NO: PS-4370-2622          DRAWING NO: PP-19          SCALE: 1"=100'          HORIZ: 1"=100'          VERT: 1"=10'</p>												<p>PROJECT MANAGER: [Name]          SCALE: 1"=100'          VERT: 1"=10'</p>			



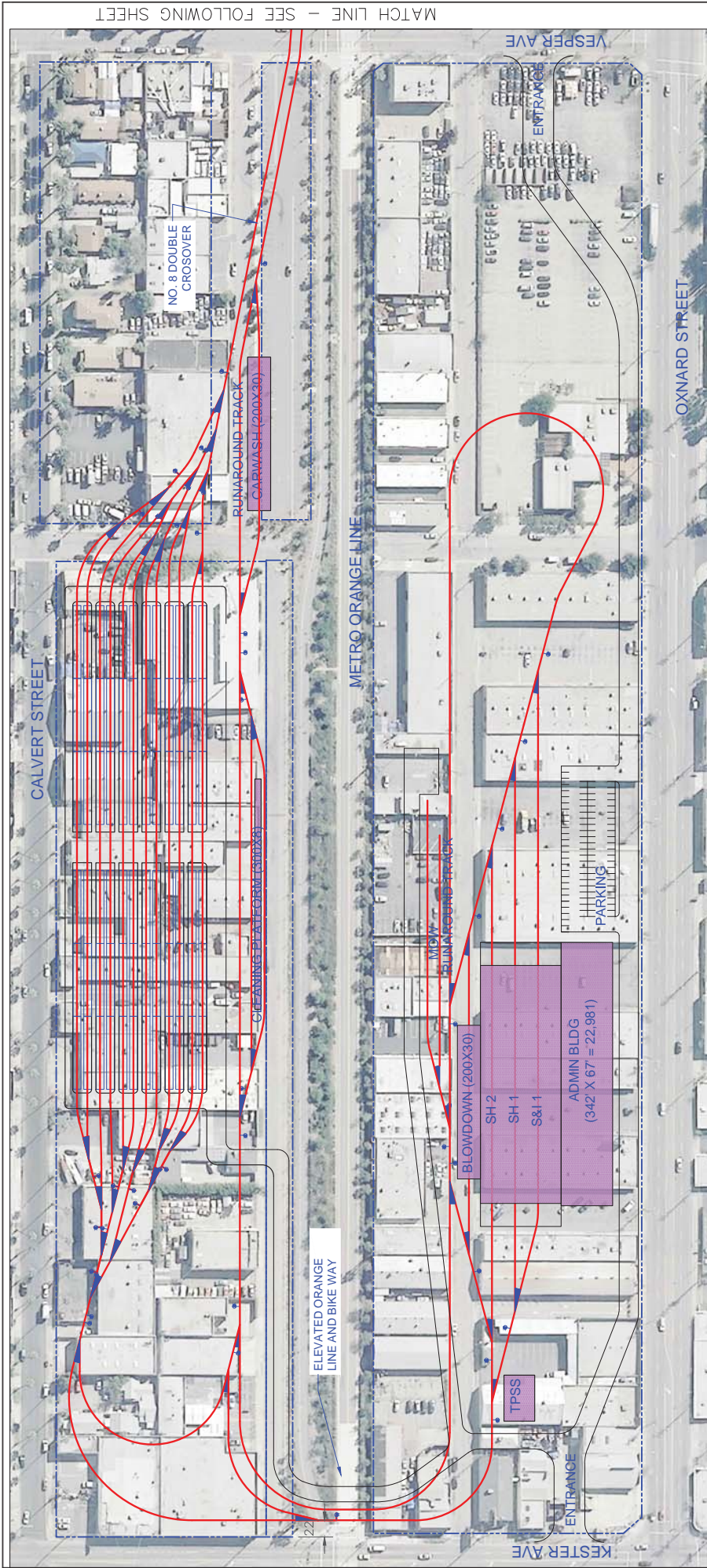
ALTERNATIVE 4 - LRT MEDIAN RUNNING/ UNDERGROUND

DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		DESCRIPTION		SCALE		INDEX NUMBER	
REV	DATE	BY	APP	REV NO	DPWES	SCALE	HOLDER	PROJECT MANAGER		PROJECT NUMBER		SCALE		SHEET	
<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY          EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT</p> <p><b>KOA CORPORATION</b>          PLANNING &amp; ENGINEERING          14000 Park Center Rd #100, Sylmar, CA 91781          Tel: (818) 252-1000 Fax: (818) 252-1008</p>												<p>EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR          LIGHT RAIL TRANSIT ALTERNATIVE          PLAN &amp; PROFILE          STA 570+00 TO STA 600+00</p>			
<p>CONTRACT NO: PS-4370-2622          DRAWING NO: PP-20          SCALE: HORIZ: 1"=100'          VERT: 1"=10'          SHEET NO: 0</p>												<p>PROJECT MANAGER: [Name]          SCALE: HORIZ: 1"=100'          VERT: 1"=10'</p>			



ALTERNATIVE 4 - LRT MEDIUM RUNNING/ UNDERGROUND

CONTRACT NO. PS-4370-2622 DRAWING NO. PP-21 SCALE: HORIZ. 1"=100' VERT. 1"=10' SHEET NO.		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE PLAN & PROFILE STA 600+00 TO STA 614+00		<b>INDEX NUMBER</b>	
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT		PROJECT MANAGER H. MARK VERT. 1"=10'		<b>SHEET</b>	
KOA CORPORATION PLANNING & ENGINEERING 14000 Park Center Rd, Suite 200 Van Nuys, CA 91411 Tel: (818) 252-1100 Fax: (818) 252-1108		SCALES H. MARK 1"=100' VERT. 1"=10'		<b>INDEX NUMBER</b>	
DESIGNED BY DRAWN BY CHECKED BY IN CHARGE DATE	DESCRIPTION 1"=100' ORIGINAL MAP SCALE 1"=100'	0 10 20 30 40 50 60 70 80 90 100 FEET	0 10 20 30 40 50 60 70 80 90 100 FEET	<b>INDEX NUMBER</b>	
REV. DATE BY APP. RES. NO. DWNES.	SEC. HOLDER	<b>INDEX NUMBER</b>			



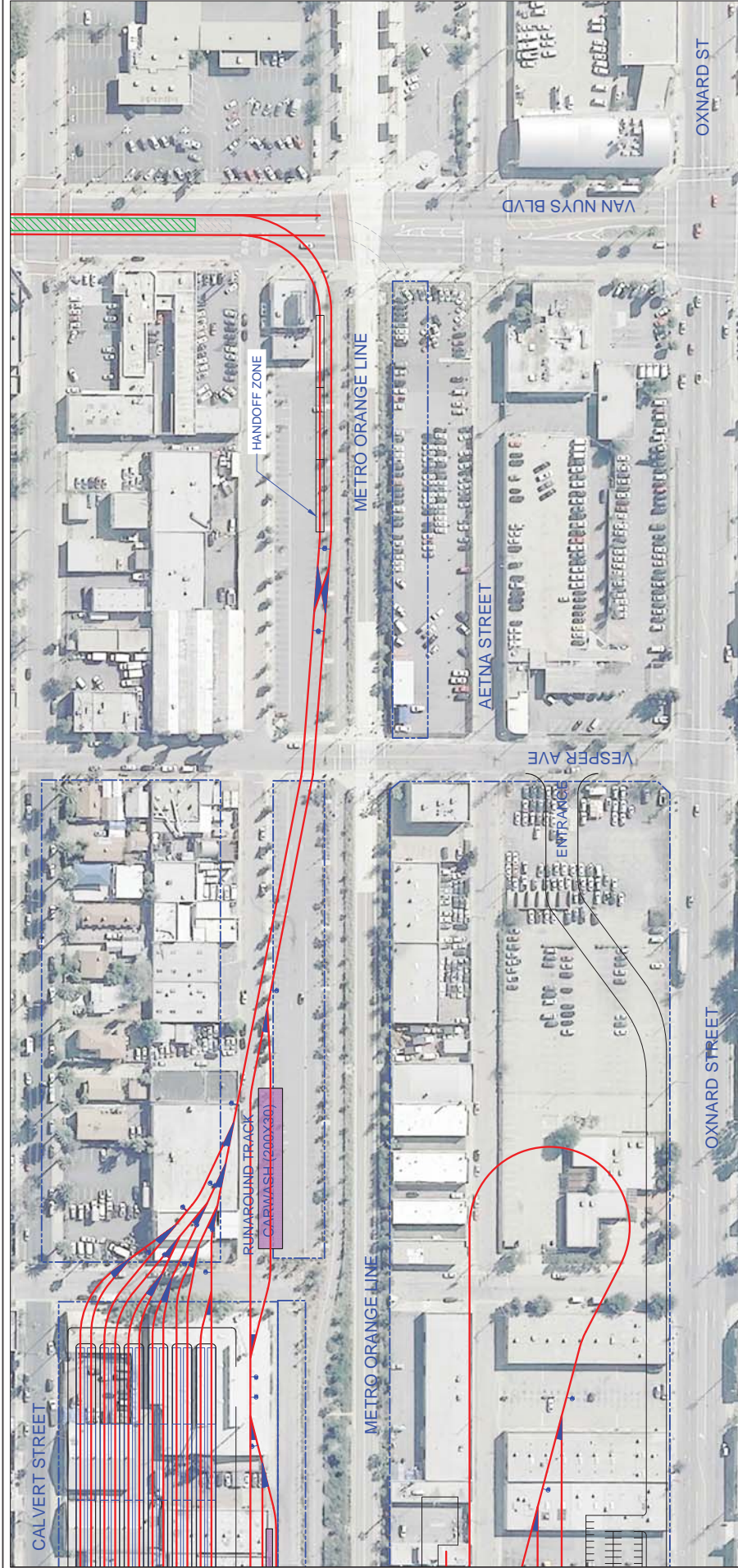
MATCH LINE - SEE FOLLOWING SHEET

NOTE: SECURITY TOWER VS. CCTV

MSF SITE: 30.0 ACRES  
 STORAGE CAPACITY: 24 - 3 CAR TRAINS  
 72 CARS TOTAL  
 190FT RADIUS TURNOUTS  
 MIN RADIUS = 100'



PROJECT FILE NAME: E:\projects\4010220\4010220_001\00_V0_CAD Models and Sheets\04_C:\Track_Rail\X-Track-MSF-A40-101-01-CAD.dwg Aug 27, 2014 8:22am PROJECT NO: 4010220 DRAWING NO: 0 SCALE: HORIZ: 1"=60' VERT: N/A SHEET NO:		CONTRACT NO: PS-4370-2622 DRAWING NO: 0 SCALE: HORIZ: 1"=60' VERT: N/A SHEET NO:	
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE MAINTENANCE FACILITY AETMA - 3 CAR TRAINS			
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT KOA CORPORATION PLANNING & ENGINEERING 10000 Wilshire Blvd, Suite 100 Beverly Hills, California 90210 Tel: (310) 204-1700 Fax: (310) 204-1705		PROJECT MANAGER NAME: [ ] TITLE: [ ] SCALE: [ ] VERT: [ ] SHEET NUMBER: [ ]	
DESIGNED BY S. TERRELL-Lewis S. WALLON CHECKED BY M. SPENCE M. SPENCE DATE 09/27/14	REVISIONS NO.   DATE   BY   APP   REVISION   DESCRIPTION 1	INDEX NUMBER: [ ] SHEET: [ ]	INDEX NUMBER: [ ] SHEET: [ ]



MATCH LINE - SEE PREVIOUS SHEET

NOTE: SECURITY TOWER VS. CCTV

MSF SITE: 30.0 ACRES  
 STORAGE CAPACITY: 24 - 3 CAR TRAINS  
 72 CARS TOTAL  
 190FT RADIUS TURNOUTS  
 MIN RADIUS = 100'

DESIGNED BY T. THORNTON S. WALLON CHECKED BY T. THORNTON T. WALLON DATE 09/17/14		CONTRACT NO. PS-4370-2622 DRAWING NO. 0 SCALE HORIZ: 1"=60' VERT: N/A SHEET NO.						
PROJECT MANAGER STV KOA CORPORATION PLANNING & ENGINEERING 10000 Wilshire Blvd, Suite 200 Beverly Hills, California 90210 TEL (310) 204-1700 Fax (310) 204-1705		EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR LIGHT RAIL TRANSIT ALTERNATIVE MAINTENANCE FACILITY AETNA - 3 CAR TRAINS						
REV	DATE	BY	APP	REQ NO	EXPRES	SCALE	REASON	DESCRIPTION
SCALES HORIZ: 1"=60' VERT: N/A							INDEX NUMBER SHEET	