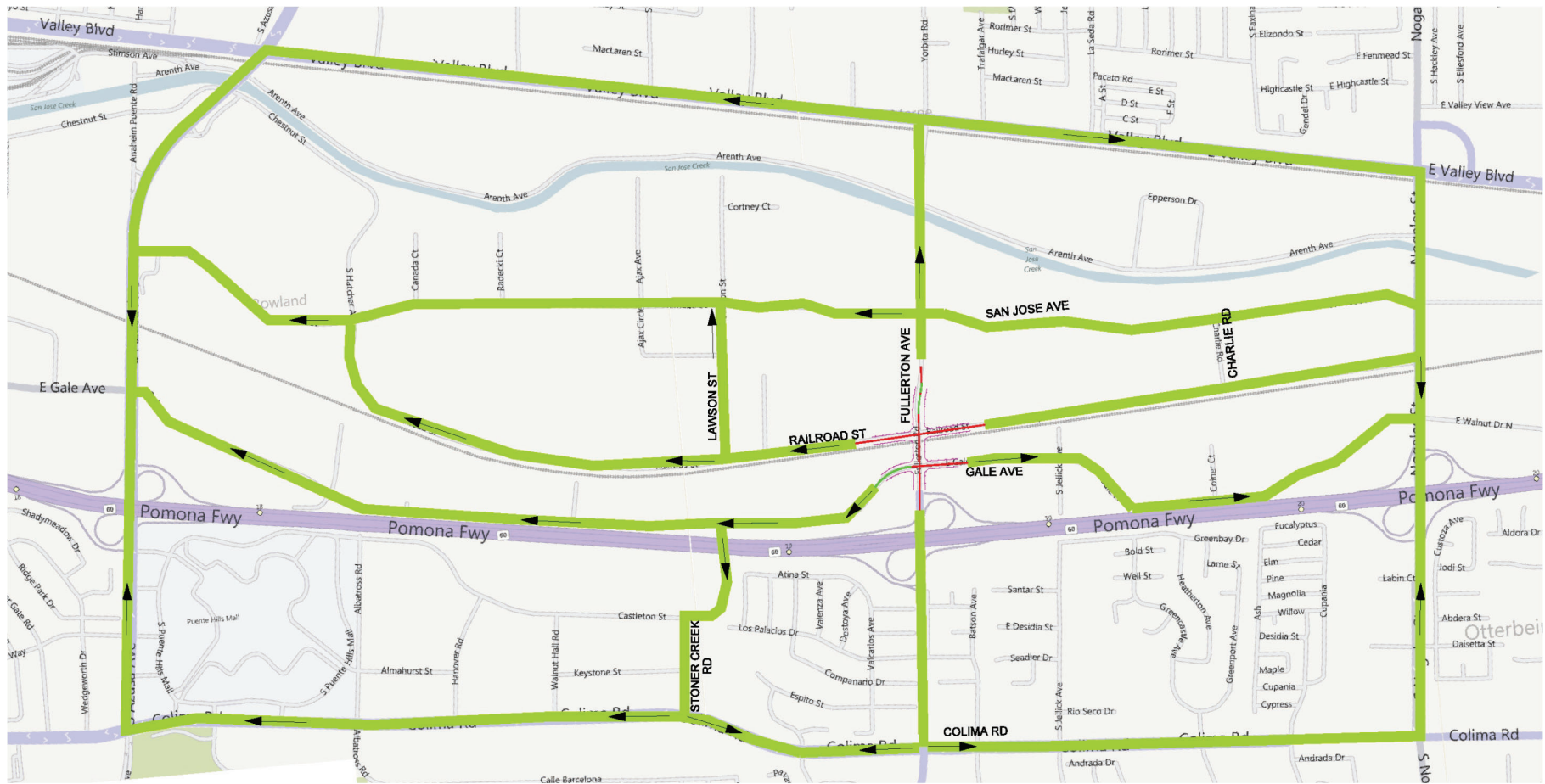


Source: JL Patterson & Associates, Inc.



Source: JL Patterson & Associates, Inc.

ACE Task 2 Preliminary Cost Estimate

Fullerton Road - LA Sub
Underpass

WORK DESCRIPTION-FULLERTON ROAD UNDERCROSSING	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE
CIVIL CONTRACTOR				
Civil / Grading/Drainage				
Mobilization/Demobilization (8% Civil)	1	LS	\$2,469,052	2,469,052
Clearing & Grubbing (3% Civil)	1	LS	\$925,894	925,894
Traffic (7% Civil)	1	LS	\$2,160,420	2,160,420
Earth Work - Cut	13,310	CY	\$40	532,404
Earth Work -Fill		CY	\$30	-
Civil Work (C&G, AC, SW, Etc.)	1	LS	\$5,700,000	5,700,000
Environmental	1	LS	\$300,000	300,000
Crossings				
Remove Existing Panels (2 Pairs)	480	LF	\$20	9,600
New Crossing Panels (2 Pairs)	480	LF	\$1,200	576,000
Total			\$ 12,673,000	
Structural				
Solder Pile Lagging Wall	35,505	SF	\$96	3,408,480
Solder Pile Lagging Wall (sidewalk)	50,459	SF	\$75	3,784,425
Railing at Retaining Walls	4,725	LF	\$25	118,125
Excavation	149,647	CY	\$45	6,734,115
Bridge Cost	1	LS	\$5,900,000	5,900,000
Total			\$19,945,000.00	
Utilities <small>Note 1 & 2</small>				
Relocation of Water/Gas/Cable/Telephone/SCE (poles & underground)	1	LS	\$3,800,000	3,800,000
Sanitary Sewer, Storm Drain				
CIVIL CONTRACTOR TOTAL \$				
				36,419,000
UNION PACIFIC RAILROAD				
Track work				
(Shoofly Track)				
Install New Track	2,969	TF	\$350	1,039,152
Remove Track	2,969	TF	\$120	356,281
Shift Track	3,245	TF	\$225	730,108
Crossings				
Remove Crossing House and Gates	1	LS	\$50,000	50,000
New Temporary Crossing House and Gates Removal and Reprogramming of Temporary Crossings Detour Road	1	EA	\$500,000	500,000
UPPR RAILROAD TOTAL \$				2,676,000
SUB TOTAL \$				39,095,000
PROJECT COST				
CIVIL / STRUCTURAL ENGINEERING:				
Geotechnical Investigation (3% Construction)	1	LS	\$1,172,850	1,172,850
Survey/ Aerial Mapping (2% Construction)	1	LS	\$781,900	781,900
Design & Design Support (10% Construction)	1	LS	\$3,909,500	3,909,500
Right-of-Way-Acquisitions <small>Note 3,4& 5</small>	1	LS	\$52,552,080	52,552,080
Construction Management (10% Construction)	1	LS	\$3,909,500	3,909,500
Agency Costs (16% Construction) <small>Note 6</small>	1	LS	\$6,255,200	6,255,200
Program Management Costs (8% Construction) <small>Note 7</small>	1	LS	\$3,127,600	3,127,600
Flagging (6% Construction)	1	LS	\$2,345,700	2,345,700
Permitting/City Requirement (1% Construction)	1	LS	\$390,950	390,950
Sub Total PROJECT COST \$				74,445,000
Project Costs not Inclusive of ROW Acquisitions \$				21,893,000.00
Not Inclusive of ROW Acquisitions				
Contingency				
Total \$				113,540,000
30% \$				18,296,000
Grand Total \$				131,836,000

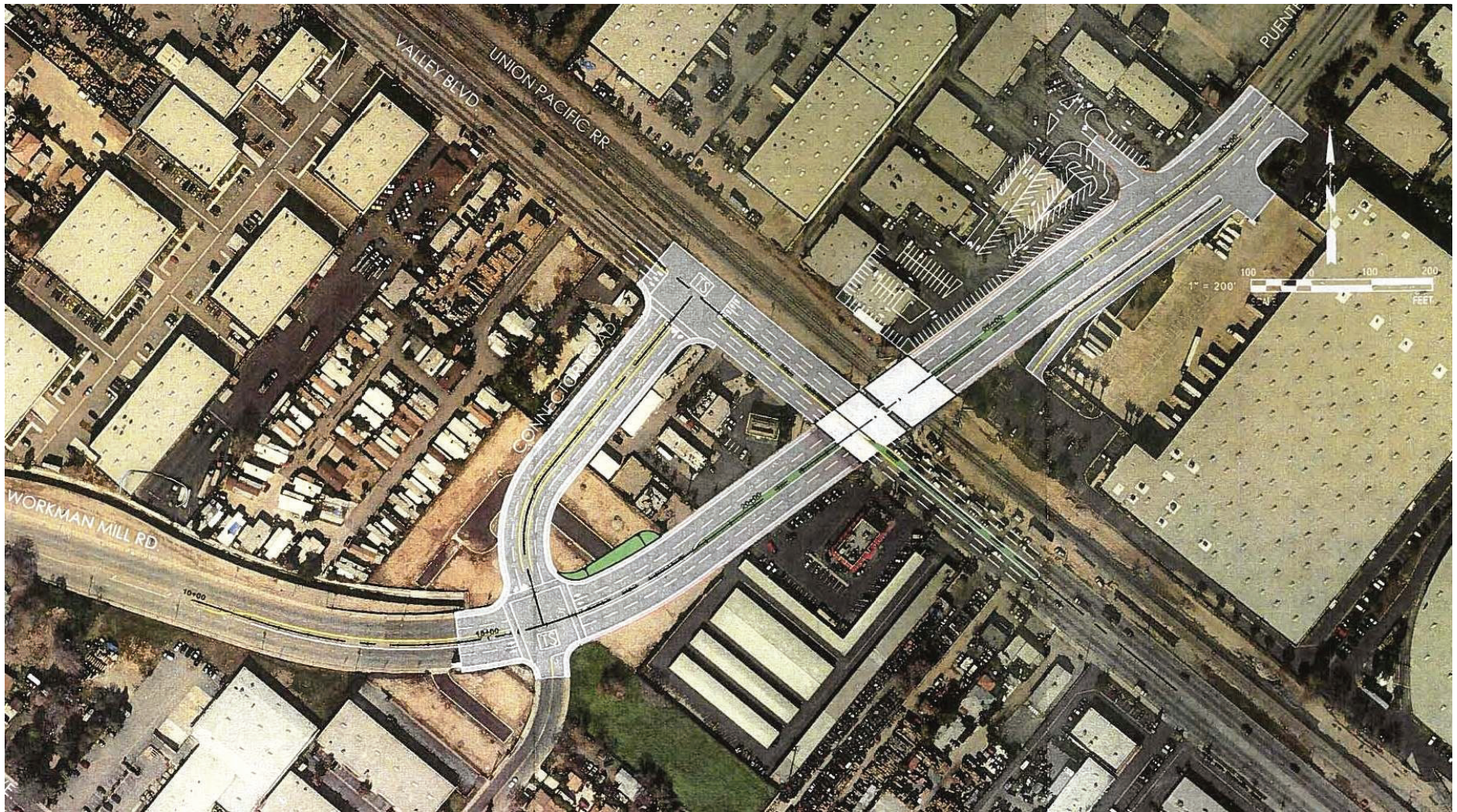
Notes

1. Utility relocation cost estimates assume all affected utilities (sewer and storm drain) can be relocated by gravity flow systems similar to the existing systems.
2. Cost for drainage item includes construction of one storm drain pump station at the project area.
3. Right of Way cost estimates are based on \$100/SF which covers the land and building allowance for full takes or areas affected by part takes.
4. Right of Way costs do not include any associated relocation costs or severance damages to the business operators.
5. Right of Way costs include a 25% allowance for acquisition costs, (appraisals, negotiation, labor, legal, closing cost, etc.)
6. Agency Costs include Agency Project Management direct labor and Agency indirect costs.
7. Program Management costs include third party project support costs such as community outreach, environmental management, DBE and labor compliance, and property survey.
8. This estimate is prepared using construction cost information based on current dollar cost as of 2011.

APPENDIX M
PUENTE AVENUE AT UPRR ALHAMBRA SUBDIVISION



Source: Puente Avenue at Valley Boulevard Grade Separation Project,
City of Industry, California, AECOM. August, 2009.



Source: Puente Avenue at Valley Boulevard Grade Separation Project,
 City of Industry, California, AECOM. August, 2009.

ACE Task 2 Preliminary Cost Estimate

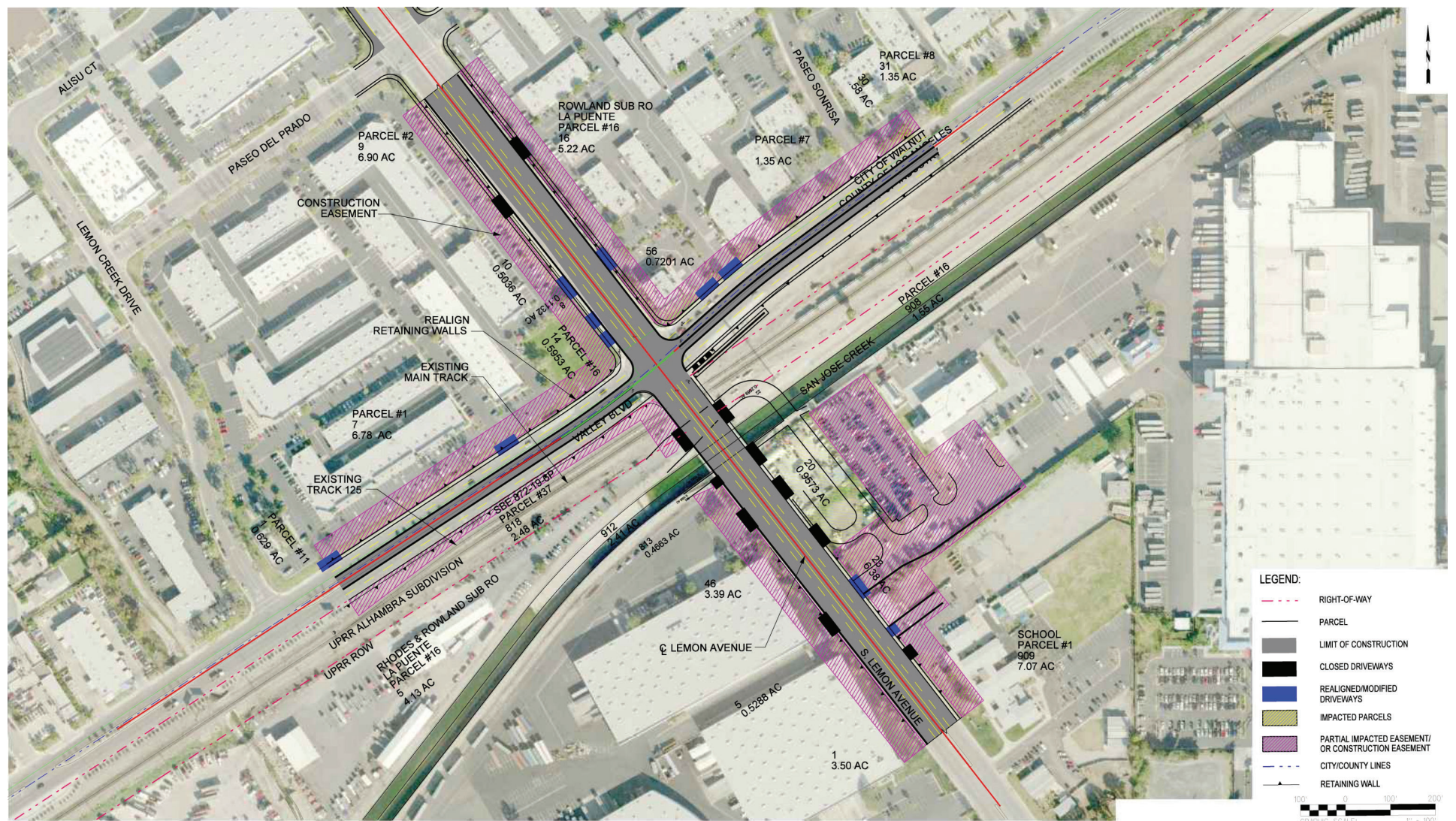
Puente Avenue -Alhambra Sub
Underpass

WORK DESCRIPTION-FAIRWAY DRIVE UNDERCROSSING	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE
CIVIL CONTRACTOR				
Civil/Grading/Drainage				
Mobilization/Demobilization (8% Civil)	1	LS	\$1,540,568	\$ 1,540,568
Clearing & Grubbing (3% Civil)	1	LS	\$577,713	\$ 577,713
Traffic (7% Civil)	1	LS	\$1,347,997	\$ 1,347,997
Earth Work - Excavation	70,000	CY	\$40	\$ 2,800,000
Civil Works - Roadway	1	LS	\$2,139,200	\$ 2,139,200
Detour Road - None provided at this time				
Drainage	1	LS	\$2,233,000	\$ 2,233,000
Removals	1	LS	\$608,400	\$ 608,400
Environmental/Landscaping	1	LS	\$475,000	\$ 475,000
Structural	Total		\$ 11,721,878	10,215,500
	1	LS	\$10,215,500	\$ 10,215,500
Utilities ^{Note 1 & 2}				
(Sewer/Water)	1	LS	\$786,000	\$ 786,000
CIVIL CONTRACTOR TOTAL				\$ 22,723,000
UNION PACIFIC RAILROAD				
Track work & Related Items				
	1	LS	\$5,652,000	\$ 5,652,000
UPRR RAILROAD TOTAL				\$ 5,652,000
SUB TOTAL				\$ 28,375,000
PROJECT COSTS				
CIVIL / STRUCTURAL ENGINEERING:				
Geotechnical Investigation (3% Construction)	1	LS	\$851,300	\$ 851,300
Survey/ Aerial Mapping (2% Construction)	1	LS	\$567,500	\$ 567,500
Design & Design Support (10% Construction)	1	LS	\$2,837,500	\$ 2,837,500
Right-of-Way-Acquisitions ^{Note 3,4& 5}	1	LS	\$25,286,940	\$ 25,286,940
Construction Management (10% Construction)	1	LS	\$2,837,500	\$ 2,837,500
Agency Costs (16% Construction) ^{Note 6}	1	LS	\$4,540,000	\$ 4,540,000
Program Management Costs (8% Construction) ^{Note 7}	1	LS	\$2,270,000	\$ 2,270,000
Flagging (6% Construction)	1	LS	\$1,702,500	\$ 1,702,500
Permitting/City Requirement (1% Construction)	1	LS	\$283,800	\$ 283,800
Sub Total PROJECT COST				\$ 41,177,040
Project costs not inclusive of ROW Acquisition				\$ 15,890,100
Not inclusive of ROW Acquisitions				
		Contingency	Total	\$ 69,552,040
		30%	\$	13,279,530
Grand Total				\$ 82,832,000
Rev-month-day-year				

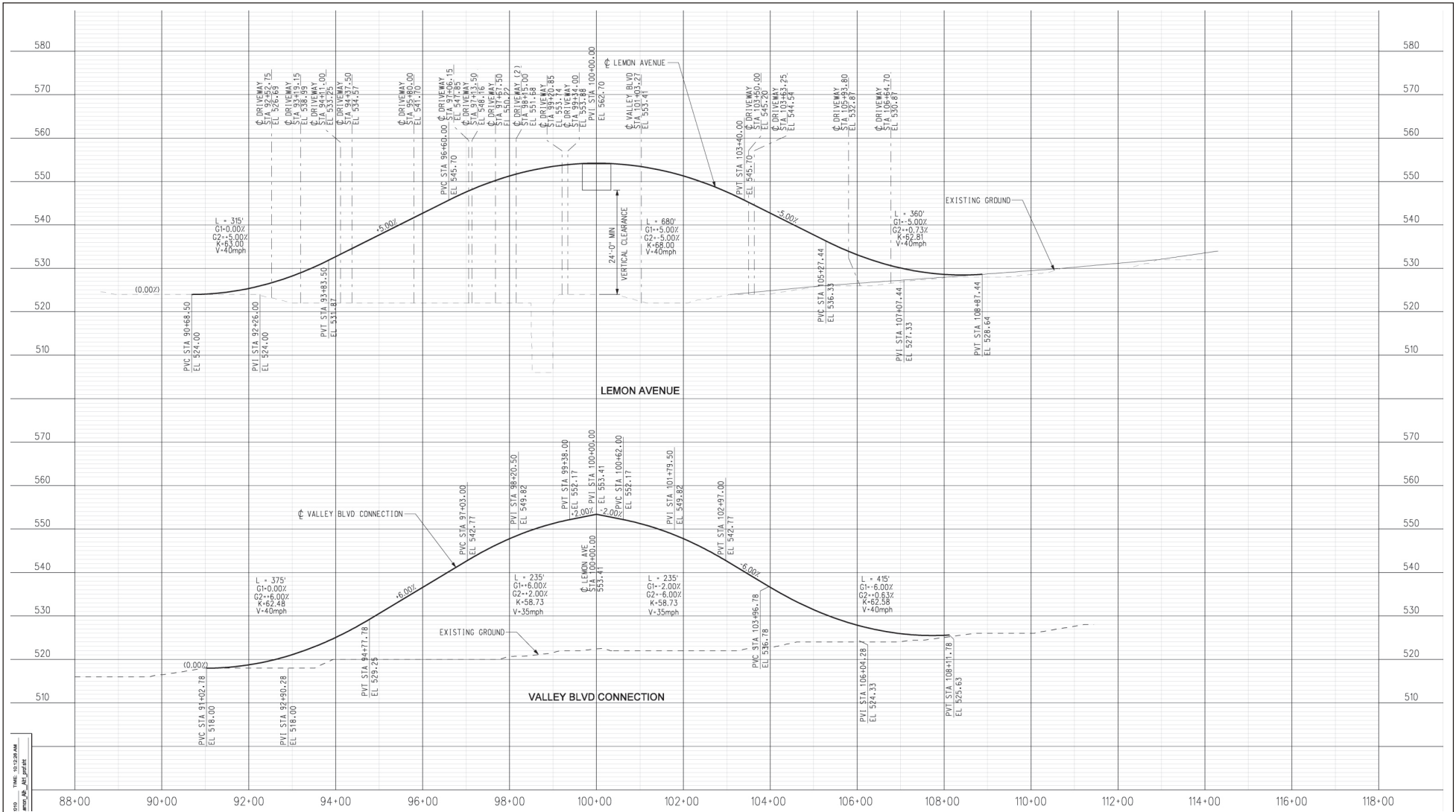
- Notes**
- Utility relocation cost estimates assume all affected utilities (sewer and storm drain) can be relocated by gravity flow systems similar to the existing systems
 - Utilities does not include easement relocation costs for Time Warner, SCG
 - Right of Way cost estimates are based on \$100/SF which covers the land and building allowance for full takes or areas affected by part takes.
 - Right of Way costs do not include any associated relocation costs or severance damages to the business operators.
 - Right of Way costs include a 26% allowance for acquisition costs. (appraisals, negotiation, labor, legal, closing cost, etc.)
 - Agency Costs include Agency Project Management direct labor and Agency indirect costs.
 - Program Management costs include third party project support costs such as community outreach, environmental management, DBE and labor compliance, and property survey.
 - This estimate is prepared using construction cost information based on current dollar cost as of 2011.

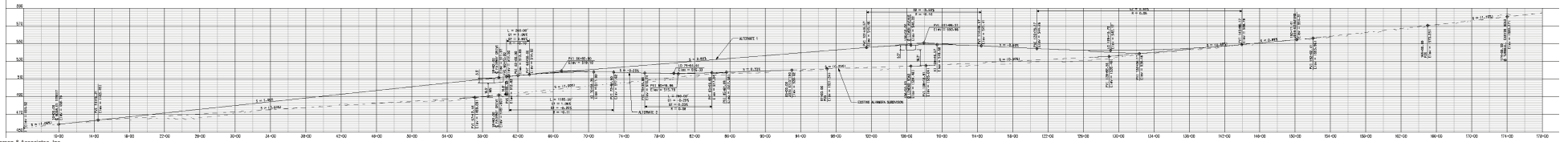
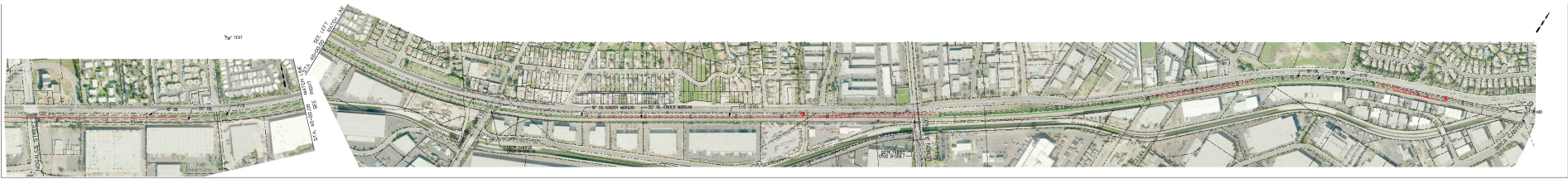
APPENDIX N

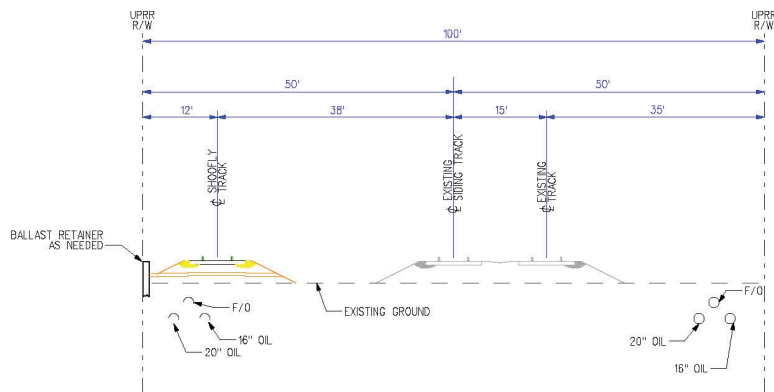
FAIRWAY DRIVE AND LEMON AVENUE AT UPRR ALHAMBRA SUBDIVISION OPTIONS



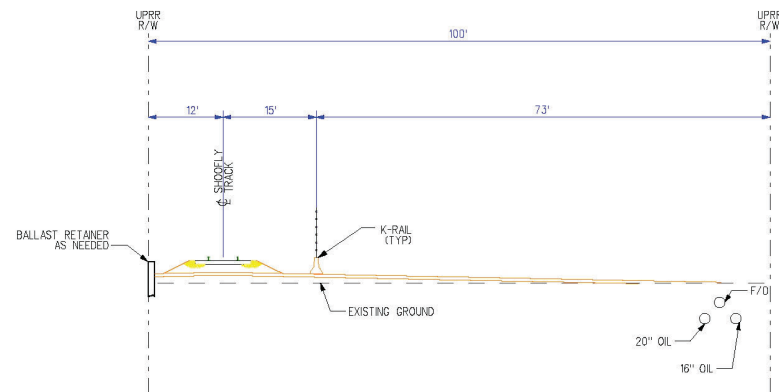
Source: JL Patterson & Associates, Inc.



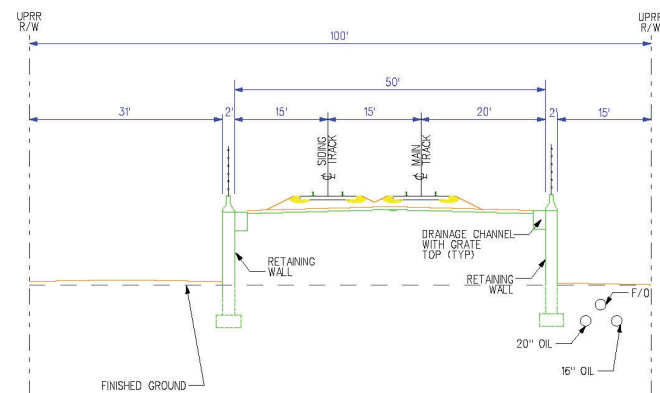
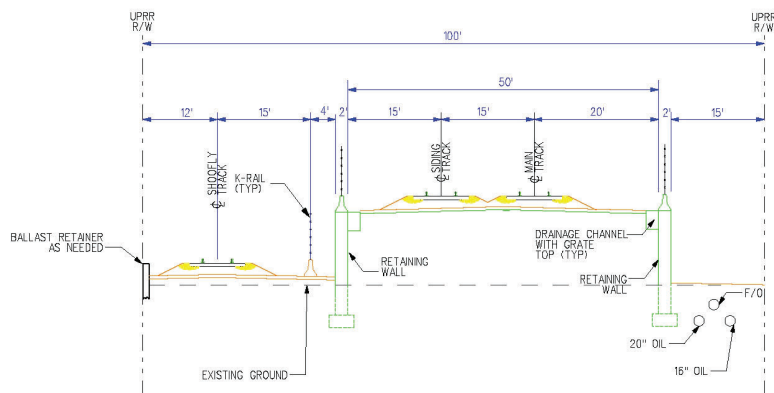




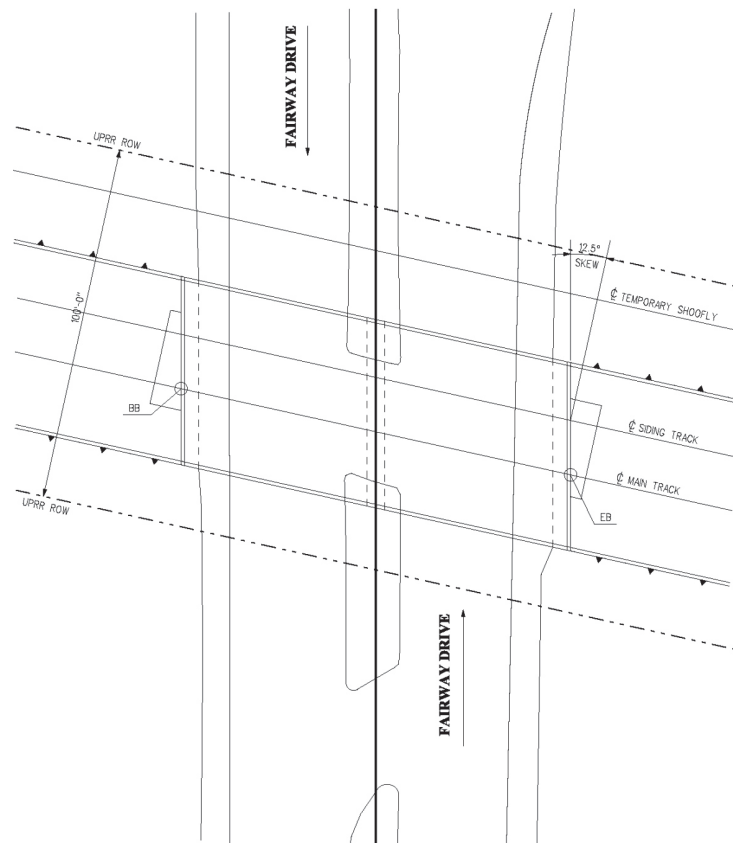
**1 CONSTRUCT SHOO-FLY TRACK
RELOCATE UTILITIES TO THE SOUTH**



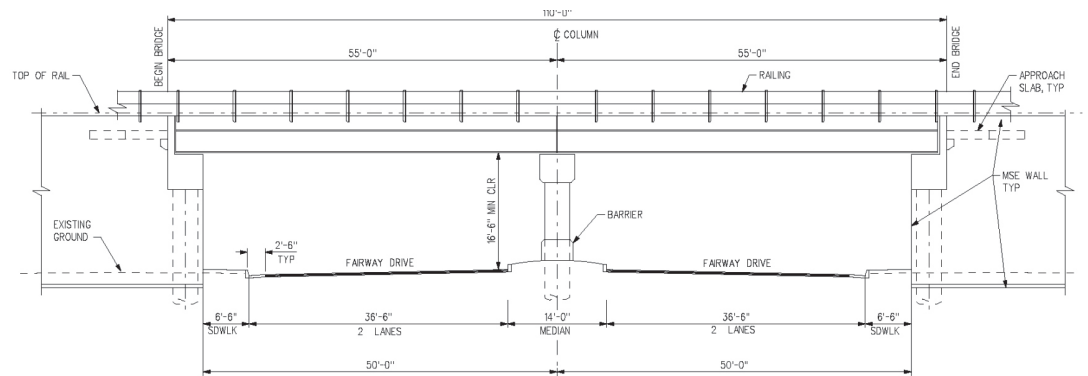
**2 MOVE TRAFFIC TO SHOO-FLY
REMOVE EXISTING MAIN TRACK**



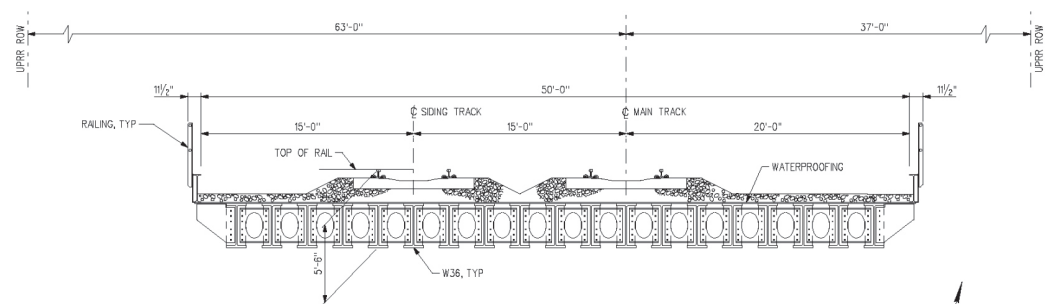
Source: JL Patterson & Associates, Inc.



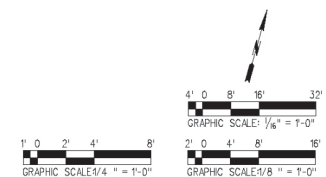
PLAN VIEW
SCALE: 1/16" = 1'-0"



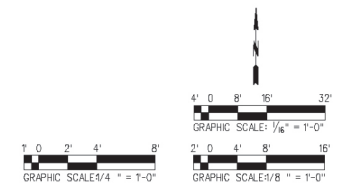
SECTION NORMAL TO FAIRWAY DRIVE
SCALE: 1/8" = 1'-0"



TYPICAL SECTION
SCALE: 1/4" = 1'-0"



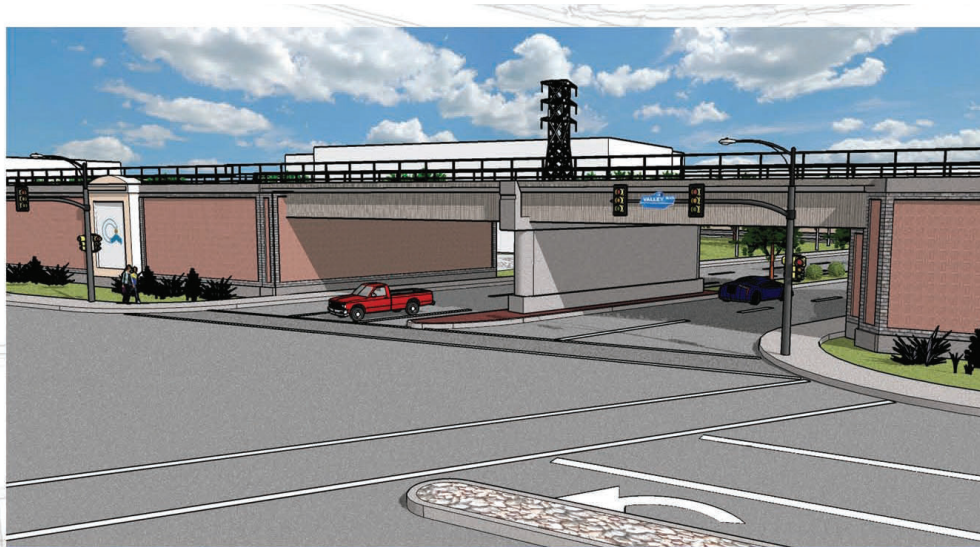
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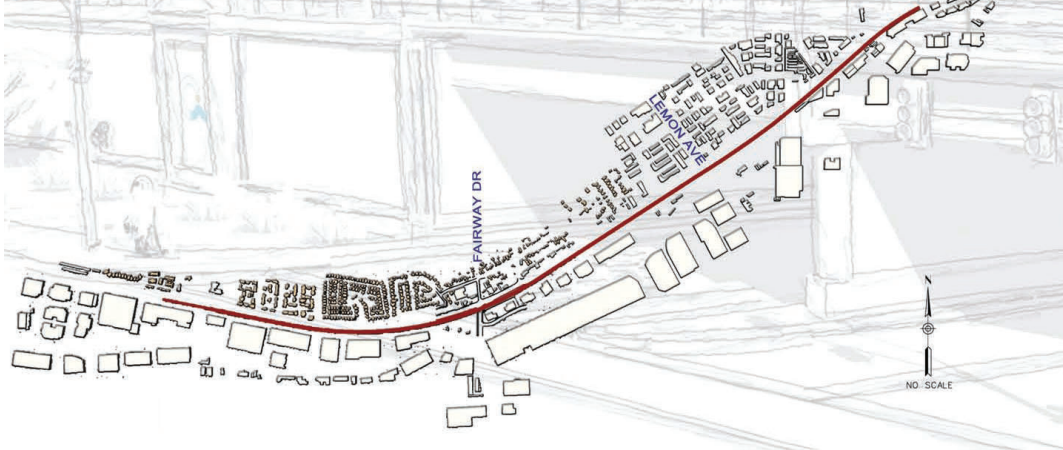


GRADE SEPARATION - FAIRWAY DRIVE

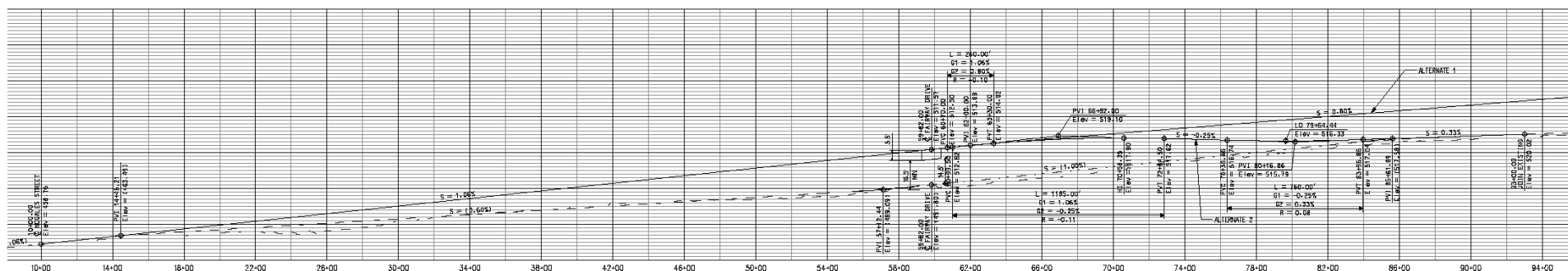
Source: JL Patterson & Associates, Inc.



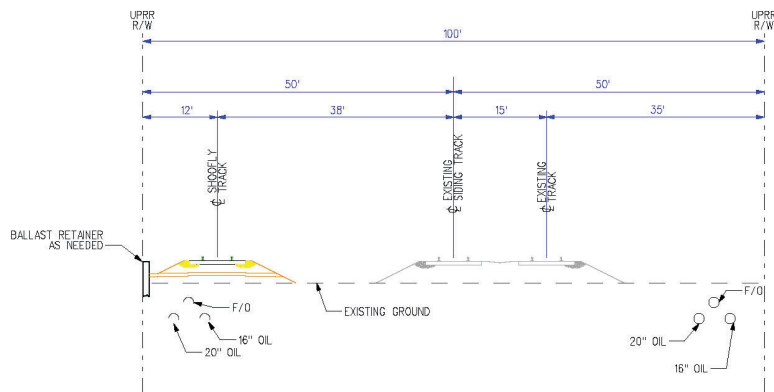
FAIRWAY DRIVE: GRADE SEPARATED BRIDGE



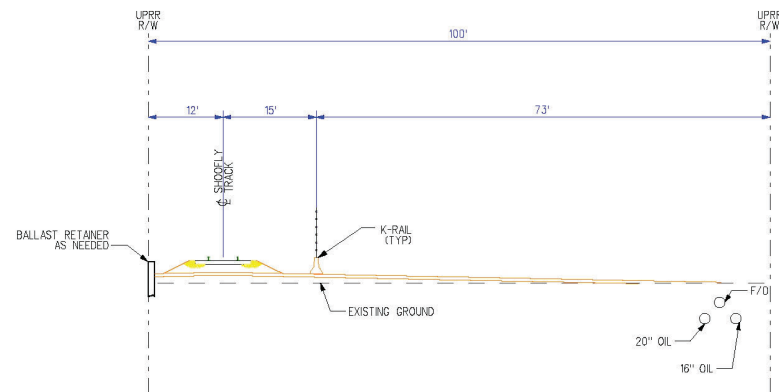
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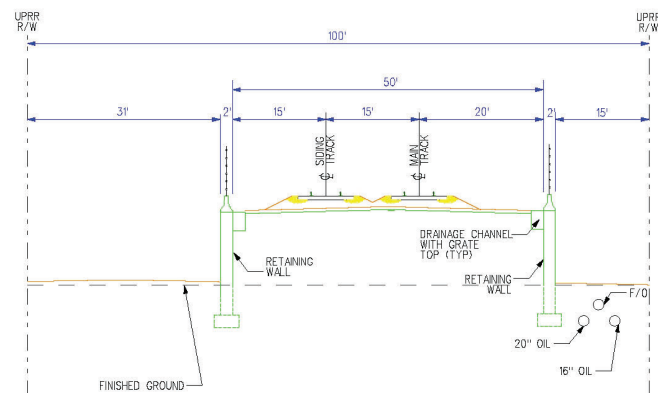
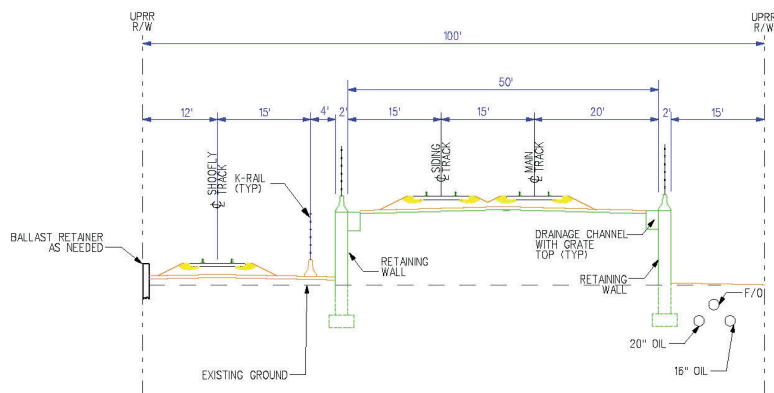
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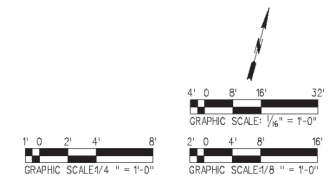
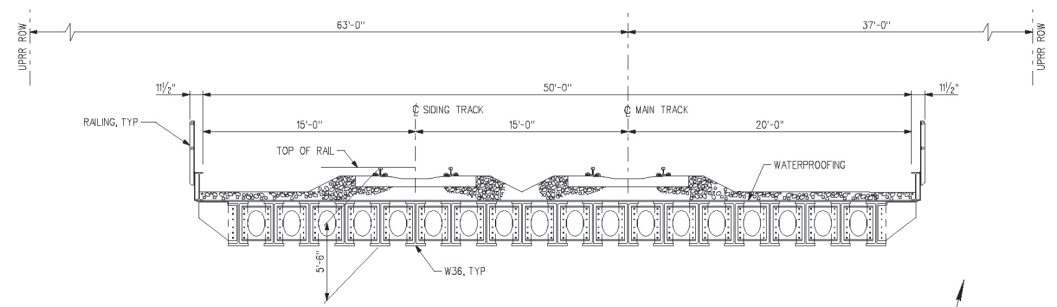
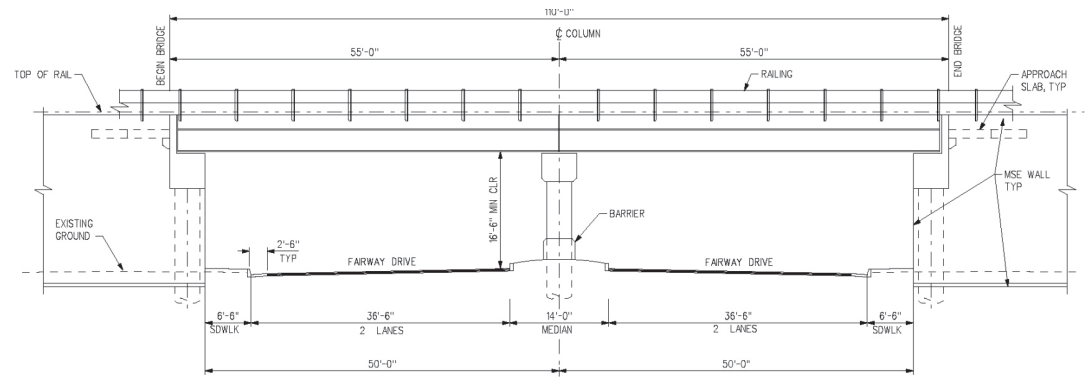
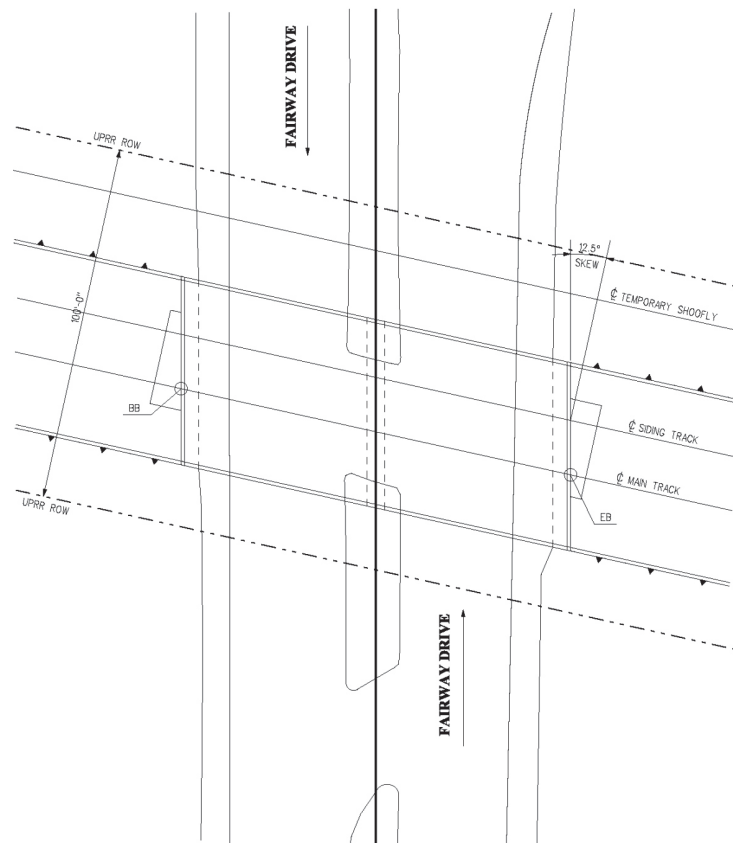
**1 CONSTRUCT SHOO-FLY TRACK
RELOCATE UTILITIES TO THE SOUTH**



**2 MOVE TRAFFIC TO SHOO-FLY
REMOVE EXISTING MAIN TRACK**



Source: JL Patterson & Associates, Inc.



Source: JL Patterson & Associates, Inc.



GRADE SEPARATION - FAIRWAY DRIVE

Source: JL Patterson & Associates, Inc.

ACE Task 2 Preliminary Cost Estimate

Fairway Drive Flyover - Alhambra Sub
Option 2

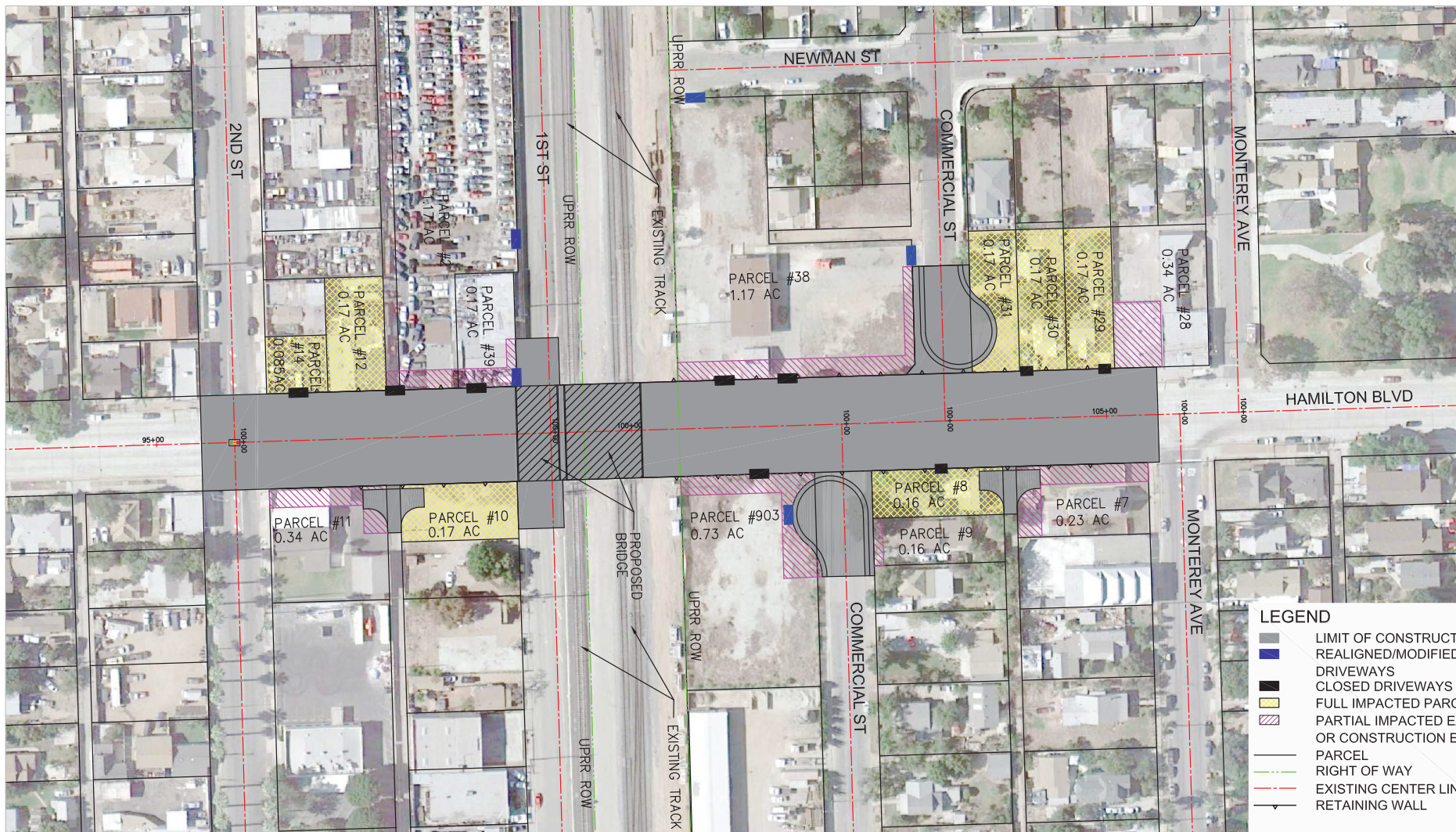
WORK DESCRIPTION FAIRWAY- FLYOVER (Option 2)		EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE
CIVIL CONTRACTOR FLYOVER					
Civil / Grading/Drainage					
Mobilization/Demobilization (8% Civil)	1	LS		\$2,163,974	2,163,974
Clearing & Grubbing (3% Civil)	1	LS		\$811,490	811,490
Traffic (7% Civil)	1	LS		\$1,893,477	1,893,477
Earth Work - Cut	15,370	CY		\$25	384,250
Earth Work - Fill (misc. import, overex)	7,690	CY		\$80	615,200
Civil Work (C&G, AC, SW, etc.)	1	LS		\$1,250,000	1,250,000
Environmental - remediation	1	LS		\$500,000	500,000
TOTAL				\$7,618,000	
Structural					
MSE Wall (include Backfill of W = 0.9H)	153,690	SF		\$96	14,754,240
Railing at Retaining Walls	16,600	LF		\$25	415,000
Backfill (Not Inclusive of MSE fill)	105,133	CY		\$45	4,730,985
Fairview Drive Bridge	1	LS		\$2,700,000	2,700,000
TOTAL				\$22,600,000	
Utilities ^{Note 1}					
Longitudinal (Oil, Fiber & misc. utilities)	1	LS		\$1,700,000	1,700,000
CIVIL CONTRACTOR SUB TOTAL					31,919,000
UPRR WORK					
Track work (New Main Track)					
Main - Furnish & Install New Track (CWFR) (Ballast up)	7,925	TF		\$242	1,917,850
Main - Furnish & Install Turnout	2	EA		\$221,000	442,000
Signal					2,360,000
Remove Existing Signals 1 crossings	1	LS		\$50,000	50,000
Install New Grade Crossing for Fairway Drive	1	LS		\$500,000	500,000
Wayside Signals in Structure	1	LS		\$500,000	500,000
UPRR RAILROAD TOTAL					3,410,000
SUB TOTAL					35,329,000
PROJECT COST					
CIVIL / STRUCTURAL ENGINEERING:					
Geotechnical Investigation (3% Construction)	1	LS		\$1,059,870	1,059,870
Survey/ Aerial Mapping (2% Construction)	1	LS		\$706,580	706,580
Design & Design Support (10% Construction)	1	LS		\$3,532,900	3,532,900
Right-of-Way-Acquisitions ^{Note 2, 3 & 4}	1	LS		\$1,260,000	1,260,000
Construction Management (10% Construction)	1	LS		\$3,532,900	3,532,900
Agency Costs (16% Construction) ^{Note 5}	1	LS		\$5,652,640	5,652,640
Program Management Costs (8% Construction) ^{Note 6}	1	LS		\$2,826,320	2,826,320
Flagging (6% Construction)	1	LS		\$2,119,740	2,119,740
Permitting/City Requirement (1% Construction)	1	LS		\$353,290	353,290
Sub Total PROJECT COST					21,044,000
Project Costs not Inclusive of ROW Acquisitions	\$	19,784,240.00			
Not Inclusive of ROW Acquisitions					
Contingency				Total	56,373,000
				30%	16,533,900
Grand Total	\$				72,907,000

Notes

1. Utility relocation cost estimates assume all affected utilities (sewer and storm drain) can be relocated by gravity flow systems similar to the existing systems.
2. Right of Way cost estimates are based on \$100/SF which covers the land and building allowance for full takes or areas affected by part takes.
3. Right of Way costs do not include any associated relocation costs or severance damages to the business operators.
4. Right of Way costs include a 26% allowance for acquisition costs. (appraisals, negotiation, labor, legal, closing cost, etc.)
5. Agency Costs include Agency Project Management direct labor and Agency indirect costs.
6. Program Management costs include third party project support costs such as community outreach, environmental management, DBE and labor compliance, and property survey.
8. This estimate is prepared using construction cost information based on current dollar cost as of 2011.

APPENDIX O

HAMILTON BOULEVARD AT LOS ANGELES/ALHAMBRA SUBDIVISION



- LEGEND**
- LIMIT OF CONSTRUCTION
 - REALIGNED/MODIFIED DRIVEWAYS
 - CLOSED DRIVEWAYS
 - FULL IMPACTED PARCEL
 - PARTIAL IMPACTED EASEMENT/ OR CONSTRUCTION EASEMENT
 - PARCEL
 - RIGHT OF WAY
 - EXISTING CENTER LINE
 - RETAINING WALL

