Appendix F Sacramento Extension Capitol Cost Basis Report

Sacramento Extension Capital Cost Basis Report

March 2020 Prepared for: SJRRC Authored by: AECOM



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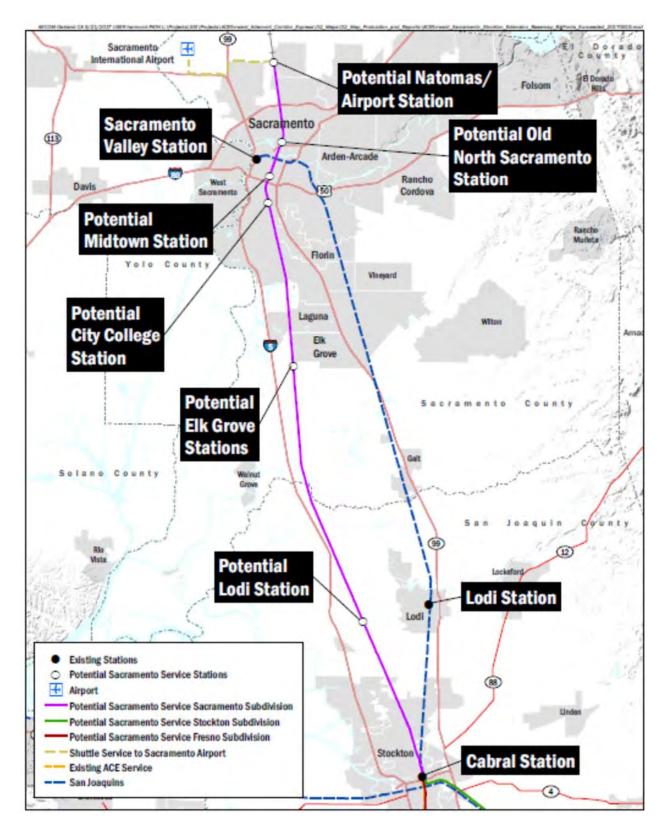
Appendix A: Cost Summary Appendix B: Station Sections

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List of Acronyms and Abbreviations

AC	Acres
ACE	Altamont Corridor Express
BART	Bay Area Rapid Transit
BCY	Bank Cubic Yard
CER	Conceptual Engineering Report
CY	Cubic Yard
Dog House	Signal house
EPC	engineer-procure-construct
FCY	Fill Cubic Yard
HVAC	heating, ventilation, and air conditioning
I&C	instrumentation and controls
kV	kilovolt(s)
LED	light-emitting diode
LF	Lineal Feet
LS	Lump Sum
mW	megawatt(s)
SF	Square Feet
SJRRC	San Joaquin Regional Rail Commission
TF	Track Feet
V	volt(s)
WBS	Work Breakdown Structure
WC	Work Category

General Map of the Project



Section 1: Introduction to the Estimate

1.1 General Introduction

The AECOM team prepared a comprehensive cost estimate for the Sacramento Extension Rail Project.

This document is to summarize the costs from the 2020 15% preliminary engineering design for the improvements associated with the Sacramento Extension. The projects include rail improvements and stations.

A master work breakdown structure (WBS) has been developed collectively by the AECOM team to provide a tracking framework for design, planning, scheduling, funding, and partnering as the Projects move forward. Work items are introduced with reference to the CSI coding system.

1.2 Overview of the Scope of Work

The Sacramento Extension is proposed by the San Joaquin Regional Rail Commission (SJRRC) to provide one element of the foundation for SJRRC's long-term vision of intercity passenger rail services.

The Sacramento Extension includes improvements to UPRR's Sacramento Subdivision in order to increase passenger rail service between Stockton and Sacramento. The existing service on the Fresno Subdivision is not capable of expansion therefore new service must be implemented on the Sacramento Subdivision. In order to provide service there is a need for rail improvements and stations.

Section 2: Scope of the Estimate

2.1 Sacramento Subdivision

The Sacramento Extension project is divided into station improvements and rail improvements. There are six stations planned for this segment, Lodi, Elk Grove, City College, Midtown, Old North Sacramento and Natomas. The track improvements include four curve locations that reduce the speed locally, with these improvements the train will not have to slow down for these curves. There is also a combination of two new sidings, three siding upgrades and three siding upgrade and extensions. There is also a crossover needed in the vicinity of 26th Avenue.

Section 3: Development of Cost Estimate

The development of this estimate was an integrated process within the AECOM team to collaborate in the development and review process of the design and costing. The steps to produce a complete package of reliable cost and budget to support the design are outlined below.

3.1 Estimate Summary

The Estimate Summary Sheet uses the WBS for the Project and cost segments to produce the cost summary sheets. This is the list of the key activities that make up the Project. It summarizes the line item cost for each key element of work that makes up the Project. Each key element has a related design and plans, take-off and unit rates work sheet showing the detailed cost development work included in each segment. These Estimate Summary Sheets are included in Appendix A.

3.2 Work Breakdown Structure (WBS)

The WBS was set up to develop a line item identifier for each key element of work on the Project. It is intended to develop integrated cost and schedule for each key element that can be used as a future individual construction contract or combined with other key elements to produce a construction package in the future.

3.3 Work Categories (WC)

The WC for the Project was developed to provide a systematic framework to develop and track the cost and schedule for the project. It focuses on the key elements for railroad construction. The estimate work sheets (tabs on the Summary Estimate) integrate the descriptions of work elements with the estimate of quantities take-off to develop the cost for each segment of the design.

3.4 Estimate of Quantities

The quantities used to develop the cost for this estimate were produced from designs developed by the AECOM design team. AECOM produced work activity quantities from this design and produced quantity summary sheets for each work activity. Specific track items such as track hardware, switches, and signals were quantified for pricing. Quantities from design sheets were back checked by AECOM to ensure that all quantities were accounted for throughout the estimate.

3.5 Estimate of Pricing

To develop the pricing for the cost estimate, the quantities developed in Section 3.4 were integrated with a standardized pricing sheet (tabs within the Microsoft Excel spreadsheets) listing all of the possible work activities that would be encountered in

each work area of each of the Projects. Each item is assigned a consistent unit rate for each of the activities to be used throughout the estimate. A factor was provided to adjust the standard cost rate for the work activities depending upon any differences from the standard rates, allowing for efficiency, markup, and difficulty of the work. This is a judgment based upon a review of the design documents and minimal field review of the work sites. Costs developed here are automatically transferred from the Estimate Summary Sheet into the Major Work Activity.

3.6 Contractor Markups

This section describes the basis of the cost estimate Scope of Work.

This Opinion of Probable Cost is classified as a Class 4 estimate as defined by the Association for the Advancement of Cost Engineers (AACE international). Class 4 estimates are prepared based on information where the preliminary engineering is from 15 percent complete, such as used for detailed strategic planning, business development, project screening, alternative scheme analysis, confirmation of economic and/or technical feasibility, and preliminary budget approval.

The Class 4 estimating methodology is parametric using equipment and/or system process factors, budgetary vendor quotes, scale-up factors, and parametric and modeling techniques. The expected accuracy ranges for this class of estimate are -15 percent to -30 percent on the low end and +20 percent to +50 percent on the high end.

Table 3-1. CER Opinion of Probable Cost Markup							
Cost Description	Markup (%)						
Inter-Agency Fees	0.80						
Environmental Mitigation	3.00						
Preliminary Engineering	0.00						
Design 35%	3.00						
Design 65%	3.00						
Design 90%	2.00						
Design Bid Set	2.00						
Construction Management	10.00						
Program Management	2.00						
Agency Administration	4.00						

Table 3-1 lists the probable cost markup to address the specific items listed in the table. The markups are indirect costs incurred by the contractor in the execution of the project.

Table 3-1. CER Opinion of Probable Cost Markup							
Cost Description	Markup (%)						
Design Services During Construction	0.00						
Railroad Flagging	2.00						
Escalation allowance ^a	0.00						
Add for whole unit factor	1.000						
Total markup factor	1.318						
Financing Costs	0.00						

^a Escalation is based on 0% per year compounded annually, to midpoint of construction. Escalation will be added when a construction schedule can be finalized.

Section 4: Estimate Methodology Reference Data

4.1 Opinion of Cost

This Opinion of Probable Cost has been prepared from the information available at the time of the estimate. The final construction costs and the total cost of implementation will depend on actual labor and material costs, competitive market conditions, implementation schedule, and other variable factors. As a result, the final costs could vary from the estimate presented in this document. Because of this variance, to help ensure proper evaluation and adequate funding, feasibility and funding needs must be carefully reviewed prior to making specific financial decisions.

4.2 Cost Resources

The following is a list of the various cost resources used in the development of this cost estimate:

- R.S. Means cost data manuals, 2015
- Recent bids and costs for local projects
- 50 plus years of construction experience
- Historical data from the design teams' similar completed projects
- Vendor and/or supplier quotes on equipment and materials where appropriate
- Estimator judgement

4.3 Labor Costs

The estimate reflects local area labor rates. The published prevailing trade labor rates are used for the counties that are included in the local area and other California involved counties.

Prevailing labor prices are a burdened rate, including employer payments such as worker's compensation, state taxes, fringe benefits, health and welfare, pensions, vacations/holidays, and training.

A 5 percent allowance for incidental overtime has been included. This calculation has been blended in with the unit rates of line items of work. Pricing includes local hire and SBE participation meeting current standards.

Labor Wage Rate Recap

The base wage and total fringe of 29 select trades are sourced from the Department of Industrial Relations' Prevailing Wage Determinates. Total wage accounts for various federal and state taxes, payroll, supervision, workers' compensation, and overhead and profit rates, as paid by the employer. Inside the main Current Construction Costs section of this book, this total wage rate is multiplied by column Labor Hours to obtain column Labor Cost.

Trade	Base Wage S	Total Fringe S	Payroll Tax S	Supervision \$	Wothers Comp	Workers Comp \$	Subtrital S	Overhead Profit	overhead. Pront \$	Total Wage Rate \$
Asbestos Worker	59.48	19.84	5.86	2.97	11.59%	6.89	95.04	2296	20.91	115.95
Bricklayer	36.50	28.44	3.76	1.83	14.55%	5.32	75.91	2796	20.49	96.40
Carpenter, Drywall/Lather	40,35	28.50	4.11	2.02	13.71%	5,53	80.51	3396	26.57	107.07
Carpenter, General	40.20	27.87	4.09	2.01	26.81%	10.78	84.95	27.96	22.94	107.85
Carpenter, Hardwood Floorer	40.35	27.72	4.11	2.02	26.81%	10.82	85.01	27.96	22.95	107.96
Cement Mason	30,00	23.66	3.16	1.50	14.55%	4.37	62,68	27%	16.92	79.6
Electrician	49.56	31.05	4.95	2.48	10.20%	5.06	93.09	20.96	18.62	111.71
Elevator Constructor	59.19	30,64	5.83	2.96	5.77%	3.42	102.03	3396	33.67	135.71
Glazier	41,63	22.72	4.24	2.09	18.55%	7.76	78.64	24%	18,87	97.53
Hod Carrier	32.84	19.69	3.42	1.64	14.55%	478	62.37	2796	16.84	79.2
Laborer, Demolition	28.14	20.13	299	3.43	12,72%	3.58	56,25	15%	8.44	64.6
Laborer, General	29.09	20,13	3.08	1.45	28.28%	8.23	61.98	1596	9.30	71.27
Operating Engineer, General	38,43	28,38	3.93	1.92	17.80%	6.84	79.50	15%	11.93	91.43
Operating Engineer, Oller	34.07	28.28	3.53	1.70	17.80%	6.06	73.65	1596	11.05	84.7
Painter, Drywali (Taper)	40,32	20.41	4.10	2.02	18.12%	7,31	74,64	25%	18,66	93.25
Painter, General	38,45	21.17	3.93	1.92	18.12%	6,97	72.44	25%	18.11	90.55
Pile Driver	39.59	28.38	4.04	1.98	17.83%	7.06	81.04	15%	12.16	93.20
Plasterer	37.48	25.11	3.84	1.87	19,2996	7.23	75.54	3396	24,93	100.44
Plumber	54.40	35.80	5.39	2.72	13.43%	731	105.62	15%	15.84	121.46
Resilient Floorer	29.55	18,37	3.12	1.45	10.99%	3.75	53.96	27%	14.57	68.5
Roofer	31.66	17.76	3.31	1.58	54.51%	17.26	71.57	2296	15.75	8733
Sheet Metal Worker. Deck & Siding	33.86	31.83	3.51	1.69	14.44%	4.89	75.78	1596	11.37	87.15
Sheet Metal Worker, Mechanical	54.85	36.79	5.43	274	14.44%	7.92	107.74	22%	23.70	131.4-
Sprinkler Fitter	52.42	25.77	5.21	2.62	9,1996	4.82	90.84	15%	13.63	104.48
Structural Iron Worker	33,50	28,20	3.48	1.68	32.87%	11.01	77.87	2196	16.35	94.23
Teamster, 4 yard	27.96	24.81	2.97	1.40	28.28%	791	65.05	15%	9.76	74.80
Teamster, 9.5 yard	28.91	24.81	3.06	1.45	28.28%	8.18	56.40	15%	9.96	76.3
Terrazzo Mechanic	40.42	25.58	4.11	2.02	7.74%	3.13	75.26	27.96	20,32	95,54
Tile Setter	38.24	17.82	3.91	191	11.24%	4.30	66.18	25%	16.55	82.73

Cost Indices

MATERIAL COST INDEX

23 Selected Materials	\$/Unit	2008	2009	2010	2011	2012	2013	2014	YOY Change
Aluminum Sheet 48"x96"	CWT	190.73	189.00	183.00	175.00	202.25	193.26	201.19	4.10%
Ashpalt Felt, 4 squares	ROLL	21.12	21.51	21.00	23.85	24.90	24.68	24.07	-2.47%
Block, Concrete 8x8x16	EA	1.43	1.42	1.47	1.47	1.55	1.57	1.62	3.18%
Brick, Standard Modular	м	348.97	351.00	368.00	348.00	356.00	362.21	367.50	1.46%
Cement, Portland	TON	101.76	102.00	98.95	98.09	101.24	102.99	107.34	4.22%
Concrete, Readymbx 3000 PSI	CY	92.26	93.80	85.00	84.15	85.46	90.37	94.00	4.02%
Copper Pipe, 1/2" type L	MLF	2,130.62	2,217.00	1,638.00	1,766.00	1,799.00	1,760.00	1,677.89	-4.67%
Glass, 1/4"	SF	5.15	5.31	5.09	5.25	5.52	5.58	5.75	3.05%
Gypsum Wall Board, 1/2" 4x8	MSF	253.03	238.34	234.37	251.03	255.00	265.85	290.96	9.45%
Insulation, Fiberglass batts, r13	MSF	274.80	279.80	307.00	312.50	351.00	363.90	354.28	-2.64%
Insulation, rigid, 1", poly iso	MSF	303.98	310.72	461.23	478.75	481.00	495.91	532.54	7.39%
Lath, Metal, 3.4#, Galvanized	CSY	210.13	215.74	208.80	222.23	236.00	232.85	263.74	13.26%
Lumber, framing, 2x4, 2x6	MBF	427.74	411.13	388.75	341.90	444.00	457.20	469.23	2.63%
Mason's Lime, 50# bags	TON	205.46	203.36	215.00	210.53	219.00	229.00	233.04	1.76%
PG 64 liquid bulk shipped	TON	274.79	286.04	477.50	557.00	570.00	570.00	558.59	-2.00%
Pipe, 8" c-900 PVC water	LF	8.85	8.82	8.93	9.55	9.26	9.15	9.30	1.59%
Pipe, Reinforced Concrete, 24"	LF	24.96	26.60	22.00	22.99	24.70	25.82	26.95	4.37%
Plywood 19/32" 4x8 CD exterior T+G	MSF	597.32	578.65	499.90	504.28	643.38	610.00	628.75	3.07%
Steel sheets, Stainless, 304, 4x8	CWT	198.17	179.74	176.00	183.95	144.50	157.25	159.95	1.72%
Steel, Reinforcing	CWT	40.90	40.36	40.30	42.06	36.20	35.80	36.79	2.77%
Steel, Structural Shapes	CWT	44.67	43.21	42.10	43.39	42.55	42.50	44.71	5.21%
Coal Tar Pitch, modified	TON	643.50	644.29	445.00	488.54	486.22	480.25	483.56	0.69%
Titanium Dioxide pigment	CWT	126.09	126.09	137.00	154.21	162.50	162.24	168.75	4.01%
Total Average Change (Non-weighted)									2.88%

Cost Indices

LABOR COST INDEX

9 Selected Trades, \$/hour	2008	2009	2010	2011	2012	2013	2014	YoY Change
Carpenters	47.13	50.89	52.87	53.75	55.08	56.77	58.39	2.85%
Bricklayers	47.66	51.17	53.27	54.10	55.07	56.18	57.93	3.11%
Iron Workers (Structural)	51.97	55.75	58.81	59.68	60.80	61.41	62.76	2.19%
Laborers (Building)	37.84	41.85	43.64	44.49	44.99	47.02	49.68	5.67%
Operating Engineers (Crane Operators)	51.06	54.92	57.01	57.85	58.89	60.27	64.55	7.10%
Plasterers	44.18	48.15	50.10	50.83	51.26	52.85	54.68	3.47%
Plumbers	53.78	59.14	61.09	62.16	62.97	64.65	67.66	4.65%
Electricians	54.89	57.21	59.29	59.68	61.00	62.07	64.50	3.91%
Teamsters	40.89	41.51	43.02	43.76	44.97	45.80	48.00	4.80%
Total Average Wage (Non-weighted)	47.71	51.18	53.23	54.03	55.00	56.34	58.68	4.20%

SUBCONTRACTS COST INDEX

	\$/Minimum							
21 Basic In-Place Materials	Quantity	Unit	2010	2011	2012	2013	2014	Change
Acoustic Celling, Incl grid, tiles	20,000 & up	SF	3.31	3.46	3.62	3.75	3.92	4.5396
Brick veneer, common, commercial	2,000 & up	SF	14.61	14.87	15.15	15.29	15.44	1.00%
Ceramic Tile 4x4, Mortar set	1,000 & up	SF	10.89	11.02	11.31	11.52	11.81	2.5296
Copper pipe, 1/2* Type L	2,000 & up	LF	12.15	11.89	12.31	12.55	12.79	1.91%
Ductwork, Galvanized iron, 16 ga	10,000 & up	#	8.27	8.31	8.79	8.89	8.93	0.45%
Flooring, Terrazzo, Cementitious	3,000 & up	SF	15.75	16.15	16.79	17.01	17.26	1.4796
Glass, Roat, 1/4"	1,000 & up	SF	9.87	9.97	10.15	10.40	10.71	2.98%
Glue Laminated beams, installed	10,000 & up	MBF	2,880.00	2,895.00	3,355.00	3,489.00	3,583.20	2.7096
Gypsum Wall Board, 5/8" 4x8	20,000& up	SF	2.12	2.16	2.29	2.36	2.43	3.10%
Insulation, 1 1/2" rigid, poly iso	5,000 & up	SF	1.55	1.60	1.67	1.85	2.01	8.50%
Metal Roof Deck 1 1/2*, 20 Ga., painted	10,000 & up	SF	3.15	3.16	3.35	3.45	3.58	3.7796
Paint, Interior, 3 coat over GWB, roll	10,000 & up	SF	0.71	0.78	0.81	0.82	0.83	1.10%
Piles, concrete, precast, 12"	2,000 & up	LF	43.59	43.15	43.41	44.56	45.91	3.03%
Plywood 19/32*, 4x8, cd exterior, T&G, floor	10,000 & up	SF	2.25	2.19	2.28	2.45	2.63	7.35%
Roofing, 4 ply, built up, 20 year	5,000 & up	SF	3.89	4.16	4.24	4.14	4.20	1.45%
Steel, Reinforcing	20,000 & up	#	0.82	0.80	0.82	0.84	0.87	3.57%
Steel, Structural Shapes	250,000 & up	#	1.54	1.49	1.41	1.55	1.68	8.39%
Stucco, Exterior, Production Residential	2,000 & up	SY	36.51	36.12	36.27	36.49	36.87	1.0496
Vinyl Composition Tile, 3/32*	10,000 & up	SF	2.89	3.05	3.09	3.15	3.22	2.2296
Wire #12, THHN, Pulled in conduit	10,000 & up	LF	0.94	0.92	0.88	0.89	0.91	2.25%
Wood Stud walls, 2x4	10,000 & up	BF	2.85	2.82	2.98	3.15	3.34	6.00%
Total Average Change (Non-weighted)								3.30%

4.4 Materials and Equipment

Materials and equipment costs include the California state sales tax rate of 9.38 percent on materials, both temporary and permanent, and purchased equipment and/or subcontracted services that are deemed taxable.

4.5 Escalation

The cost estimate unit costs are based on \$2017. A yearly escalation rate of 3.2% is applied to the construction total to provide a final construction total in \$2020.

Section 5: Assumptions, Inclusions, and Exclusions

5.1 General Assumptions and Inclusions

The following general assumptions were used in the development of the estimate:

- The estimate is based on the information contained in the 2020 15% preliminary engineering design drawing packet.
- The existing operating facility will remain functional during construction.
- Adequate staging areas for office trailers, workforce parking, and staging of materials and laydown areas will be available.
- Contractor's temporary facilities and consumables are included as part of general requirements, including water, wash water, and electricity.
- Storm Water Pollution and Prevention Plan installation and management is included in the site estimate.
- The required road closures and site access points will be provided during construction according to the construction schedule.

5.2 Major Assumptions

The estimate is based on the assumptions that the work will be done on a multifragmented general contractor basis, and the contractor will have a reasonable amount of time to complete the work.

It is assumed that the fabricated equipment will be manufactured in the United States. Manufacturing facilities for the track and rail hardware are assumed to be from a U.S. supplier.

The assumed method of procurement is General Contractor. A project of this nature and extent will likely be bid by several specialty major engineer-procure-construct (EPC) contractors qualified to execute a project of this size. Therefore, it will be critical to keep informed of bidding backlog and other market conditions to ensure competitive bids.

The timing of the advertisement of the bids and subsequent execution of the successful EPC contractor should be a major priority of the development team.

5.2.1 Geotechnical

Geotechnical assumptions used in the development of the estimate are presented below:

- Class 1 contaminated excavated material, not yet identified, will be hauled to a licensed hazardous waste disposal facility; cost not specifically calculated but included in the "rate" for excavation.
- Asphalt, demolition, and new paving are included.
- Embankment will be from a local borrow source near the construction fill site.

5.2.2 Civil

Civil assumptions used in the development of the estimate include site clearing and grading, temporary work for access to structures are included in the rates for the work items. Site improvements will include roads, storm water management, lighting, fencing, station amenities, and landscaping where shown on the plans or as required.

5.2.3 Structural

Cost for the bridges and stations will be in accordance with good engineering practices or designs where available.

5.2.4 Architectural

Architectural assumptions used in the development of the estimate are pricing for architectural finishes for building exterior walls, cladding, and roofs. Pricing allowances for streetscape landscaping and irrigation systems have been included based on a concept landscape. Allowances for landscaping are based on an allowance per square foot of surface area.

5.2.5 Railroad Signaling

Signal and signage are included as generally required by operating railroads. Signal control buildings, "dog houses," are included as well as local power for the signal operation. Some of the signals have been located on the design but additional signals or signage has been provided as necessary. The location of these signals is based on reasonable assumptions of their need. However, the Union Pacific Railroad will have the final say as to the required signal layout.

5.3 Excluded Costs

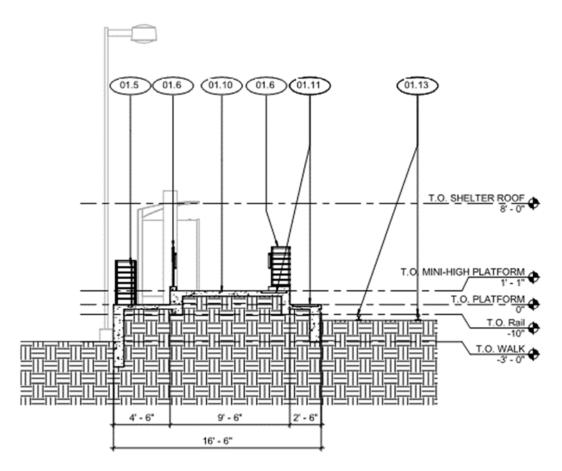
The cost estimate excludes the following costs:

- Remediation and/or mitigation of hazardous waste, unless specifically noted otherwise
- Land acquisition, other than for specific off-site facilities that will require land for those facilities
- Material adjustment allowances above and beyond what is included at the time of the cost estimate

Appendix A: Cost Summaries

	SACRAMENTO SUBDIVISION COST SUMMARY			
SEGMENT NUMBER	SEGMENT TITLE	PROJECT CONSTRUCTION COST	PROJECT ADD- ON PERCENTAGE	PROJECT TOTAL COST
Sacramento	Extension			
SE-T1	CURVE CORRECTION BETWEEN EAST MARCH LANE AND EAST SWAIN ROA	\$214,503	1.318	\$282,715
SE-T2	HAMMER LANE SIDING UPGRADE	\$6,751,816	1.318	\$8,898,894
SE-T3	LODI SIDING VARIANTS	\$20,380,900	1.318	\$26,862,026
SE-T4	THORNTON SIDING UPGRADE/EXTENSION	\$10,059,422	1.318	\$13,258,318
SE-T5	CURVE CORRECTION NORTH OF NEW HOPE ROAD	\$249,649	1.318	\$329,037
SE-T6	CURVE CORRECTION SOUTH OF DESMOND ROAD	\$260,793	1.318	\$343,725
SE-T7	PHILLIPS SIDING UPGRADE/EXTENSION	\$9,560,970	1.318	\$12,601,359
SE-T8a	ELK GROVE SIDING VARIANT 1	\$13,451,540	1.318	\$17,729,130
SE-T8b	ELK GROVE SIDING VARIANT 2	\$15,165,980	1.318	\$19,988,762
SE-T9	CURVE CORRECTION NORTH OF ELK GROVE STATION	\$228,075	1.318	\$300,603
SE-T10	POLLOCK SIDING UPGRADE	\$4,021,900	1.318	\$5,300,865
SE-T11	SOUTH SACRAMENTO SIDING UPGRADE	\$10,234,767	1.318	\$13,489,423
SE-T12	NEW CROSSOVER TRACK	\$2,379,115	1.318	\$3,135,674
SE-T13	DEL PASO SIDING UPGRADE/EXTENSION	\$30,152,714	1.318	\$39,741,276
SE-S1a	LODI STATION	\$23,294,715	1.318	\$30,702,435
SE-S1b	LODI STATION SOUTH ALTERNATIVE	\$24,394,230	1.318	\$32,151,595
SE-S2a	ELK GROVE STATION PLATFORM VARIANT 1 WITH PARKING	\$25,161,324	1.318	\$33,162,625
SE-S2b	ELK GROVE STATION PLATFORM VARIANT 2 WITH PARKING	\$25,875,674	1.318	\$34,104,139
SE-S2c	ELK GROVE STATION ACCESS VARIANT 1	\$4,210,467	1.318	\$5,549,395
SE-S2d	ELK GROVE STATION ACCESS VARIANT 2	\$7,462,628	1.318	\$9,835,743
SE-S3	CITY COLLEGE STATION	\$13,464,786	1.318	\$17,746,588
SE-S3	MIDTOWN STATION	\$19,525,780	1.318	\$25,734,978
SE-S5	OLD NORTH SACRAMENTO STATION	\$23,683,243	1.318	\$31,214,515
SE-S6	NATOMAS / AIRPORT STATION	\$24,993,552	1.318	\$32,941,502
SE-ML	NATOMAS/AIRPORT LAYOVER & MAINTENANCE	\$290,361,279	1.318	\$382,696,165

Appendix B: Station Sections





Appendix C: Signal Type Photos



CANTILEVER SIGNAL



CROSSOVER SIGNAL (ONE END)



GRADE CROSSING SIGNALS AND GATE



INTERMEDIATE SIGNALS (DOUBLE TRACK)



INTERMEDIATE SIGNALS (SINGLE TRACK)



PEDESTRIAN SIGNALS AND GATE

Sacramento Extension

Cost Estimate Back-up Tables

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
SE-T1	CURVE CORRECTION BETWEEN EAST MARCH LANE AND EAST	SWAIN R					
Estimate	DECODIDION						SUB TOTAL
Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	IUTAL PRICE	WORK ELEMENT
	CIVIL WORKS						\$71,580
600	CLEAR & GRUB LIGHT CLEAR & GRUB HEAVY DEMOLITION EARTHWORK COMMON EARTHWORK (EXCAVATION ROCK) DEMBANKMENT BORROW REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION RETAINING WALLS (10 T0 20 FEET TALL) RETAINING WALLS (10 T0 20 FEET TALL) RETAINING WALLS (10 T0 20 FEET TALL) SOIL NAIL WALLS MSE WALL ROADWAY SOUND WALL BOX CULVERT DOX CULVERT DRAINAGE (DIA-INCH-FOOT) IMPORTED BORROW ROADWAY ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY ASPHALT CONCRETE ROADWAY STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL STREET LIGHTING TRAFFIC CONCRETE K RAIL TEMPORARY CONCRETE BARIER STRIPPING PERMANENT FENCING VEHICULAR FENCE GATES	AC AC F BCY FCF LSF CY FSF SF FLY CY FLF CY FCY FCF LSF CY FSF SF FLY CY FLF SCY FCF LSF CY FSF SF FLY CY FLF SCY FCF LSF CY FSF SF FLY CY FLF SCY FCF LSF CY FSF SF FLY CY FLF SCY FSF SF SF FLY CY FLF SCY FSF SF SF SF FLY CY FLF SCY FSF SF	\$2,500 \$5,000 \$88 \$25 \$50 \$10 \$400 \$100 \$40 \$35 \$55 \$90 \$1,0000\$1,000\$1,0000\$1,0000\$1,	\$0 \$0 \$6,000 \$15,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 25.00% 25.00% 20.00% 20.00% 20.00% 50.00% 30.00%	\$0 \$0 \$0 \$7,800 \$19,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
2460) SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY LANDSCAPING PERMANENT UTILITY RELOCATIONS DEVELOP PERMANENT WATER SUPPLY YARD LIGHTING TRACK WORK	LF SF SY LF LS EACH	\$15 \$7 \$15 \$30 \$100,000 \$2,500	\$36,900 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00%	\$44,280 \$0 \$0 \$0 \$0 \$0	\$123,600
1030	REMOVE EXISTING TRACK REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK UPGRADE EXISTING TRACK TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC) TRACK PANELS CROSSOVER No.15 CROSSOVER No.20 TURNOUT (#7) TURNOUT (#8) TURNOUT (#10) TURNOUT (#10) TURNOUT (#10) TURNOUT (#15) TURNOUT (#15) TURNOUT (#20) TURNOUT (#24) DIAMOND CROSSING DERAIL BUMPING POST UPGRADE MAINTRACK TO CLASS 6	TF EACH TF TF TF SF EACH EACH EACH EACH EACH EACH EACH EACH	\$40 \$25,000 \$100 \$500 \$750 \$750 \$800,000 \$200,000 \$220,000 \$220,000 \$220,000 \$325,000 \$325,000 \$350,000 \$400,000 \$400,000 \$400,000 \$100,000 \$100,000 \$100,000	\$0 \$0 \$103,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 25.00% 20.00% 30.00% 20.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00%	\$0 \$0 \$123,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0
	PEDESTRIAN GATES & SIGNALS CANTILEVER SIGNAL DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH EACH EACH	\$100,000 \$200,000 \$250,000 \$20,000	\$0 \$0 \$0 \$0	20.00% 20.00%	\$0 \$0 \$0 \$0	φU

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF LF CY	\$200 \$400 \$500 \$500 \$500 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 30.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION CANOPY STATION PLATFORM STRUCTURES UPGRADE STATION PLATFORM STRUCTURES UPGRADE STATION PLATFORM STRUCTURES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SPACES SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 25.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 25.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	
TOTAL CONSTRUCTION COST						\$195,180

\$214,503

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			3/2/2020	Rev 2	Nev 3	Nev 4	
SE-T2	HAMMER LANE SIDING UPGRADE						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$28,800
	CLEAR & GRUB LIGHT	AC	\$2,500	\$0		\$0	
	CLEAR & GRUB HEAVY DEMOLITION	AC SF	\$5,000 \$8	\$0 \$0		\$0 \$0	
	EARTHWORK COMMON	BCY	\$25	\$0	30.00%	\$0	
	EARTHWORK (EXCAVATION ROCK) EMBANKMENT	BCY FCY	\$50 \$10	\$0 \$0		\$0 \$0	
	BORROW	FCY	\$25	\$0		\$0	
	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$0 \$0		\$0 \$0	
	RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION	SF CY	\$100 \$40	\$0 \$0		\$0 \$0	
	RETAINING WALLS (1 TO 10 FEET TALL)	SF	\$35	\$0	20.00%	\$0	
	RETAINING WALLS (10 TO 20 FEET TALL)	SF SF	\$60 \$70	\$0 \$0		\$0 \$0	
	SOIL NAIL WALLS MSE WALL ROADWAY	SF	\$70	\$0 \$0		\$0 \$0	
	SOUND WALL	LF	\$90	\$0	50.00%	\$0	
	BOX CULVERT BOX CULVERT	CY CY	\$1,000 \$1,000	\$0 \$0		\$0 \$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$1,000	\$0 \$0		\$0 \$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$0		\$0	
	IMPORTED BORROW ROADWAY ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES)	CY SF	\$25 \$25	\$0 \$0		\$0 \$0	
	AGGREGATE BASE ROADWAY	CY	\$25 \$45	\$0 \$0		\$0 \$0	
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0	25.00%	\$0	
	CONCRETE PAVEMENT GUARD RAIL ROADWAY	CY LF	\$210 \$30	\$0 \$0		\$0 \$0	
	ASPHALT DIKES ROADWAY	LF	\$30 \$4	\$0 \$0		\$0 \$0	
	STREET RESTORATIONS	SF	\$15	\$0		\$0	
	SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL	EACH EACH	\$200,000 \$100,000	\$0 \$0		\$0 \$0	
	STREET LIGHTING	EACH	\$4,500	\$0		\$0	
		DAYS	\$1,200	\$0 \$0		\$0 \$0	
	MINOR CONCRETE K RAIL TEMPORARY	CY LF	\$400 \$30	\$0 \$0		\$0 \$0	
	CONCRETE BARRIER	LF	\$50	\$0	30.00%	\$0	
	STRIPPING PERMANENT FENCING	LF LF	\$1 \$35	\$0 \$0		\$0 \$0	
	VEHICULAR FENCE GATES	EACH	\$2,000	\$0 \$0		\$0 \$0	
160	0 SILT FENCE and ORANGE FENCE	LF	\$15	\$24,000		\$28,800	
	EROSION CONTROL TEMPORARY LANDSCAPING PERMANENT	SF SY	\$7 \$15	\$0 \$0		\$0 \$0	
	UTILITY RELOCATIONS	LF	\$30	\$0		\$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0		\$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$5,334,800
	0 REMOVE EXISTING TRACK 2 REMOVE EXISTING TURNOUTS	TF EACH	\$40 \$25.000	\$24,000 \$50,000		\$28,800 \$55,000	
	SHIFT EXISTING TRACK	TF	\$100	\$00,000		\$33,000 \$0	
		TF	\$300	\$3,330,000		\$3,996,000	
60	0 TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF TF	\$500 \$450	\$300,000 \$0		\$375,000 \$0	
	GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF	\$750	\$0		\$0	
	TRACK PANELS	SF	\$75	\$0 \$0		\$0 \$0	
	CROSSOVER No.15 CROSSOVER No.20	EACH EACH	\$800,000 \$1,000,000	\$0 \$0		\$0 \$0	
	TURNOUT (#7)	EACH	\$200,000	\$0	10.00%	\$0	
	TURNOUT (#8) TURNOUT (#9)	EACH EACH	\$210,000 \$220,000	\$0 \$0		\$0 \$0	
	TURNOUT (#10)	EACH	\$250,000	\$0 \$0		\$0 \$0	
	TURNOUT (#14)	EACH	\$325,000	\$0		\$0	
	TURNOUT (#15) 2 TURNOUT (#20)	EACH EACH	\$350,000 \$400,000	\$0 8800,000\$		\$0 \$880,000	
·	TURNOUT (#24)	EACH	\$450,000	\$0		\$0	
	DIAMOND CROSSING	EACH	\$500,000	\$0		\$0	
	DERAIL BUMPING POST	EACH EACH	\$100,000 \$25,000	\$0 \$0		\$0 \$0	
	UPGRADE MAINTRACK TO CLASS 6	TF	\$100	\$0		\$0	
	SIGNAL WORK						\$780,000
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0		\$0	
	CANTILEVER SIGNAL DOG HOUSE (Signal House)	EACH EACH	\$200,000 \$250,000	\$0 \$0		\$0 \$0	
	NEW ELECTRIC SERVICE	EACH	\$20,000	\$0 \$0		\$0 \$0	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK 2 NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$650,000 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$780,000 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF LF CY	\$200 \$400 \$500 \$500 \$400 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
PARKING STRUCTURES BUS LANE AND UNLOADING	EACH EACH SF SF EACH SF SPACES SPACES SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 25.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$8 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	
TOTAL CONSTRUCTION COST						\$6,143,600

\$6,751,816

SACRAMENTO SUBDIVISION				DATE		
		Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-T3 LODI SIDING VARIANTS		0/2/2020				
Estimate DESCRIPTION Quantity	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
CIVIL WORKS						\$2,105,500
12.4 CLEAR & GRUB LIGHT	AC	\$2,500	\$31,000	40.00%	\$43,400	
CLEAR & GRUB HEAVY	AC	\$5,000	\$0	30.00%	\$0 \$0	
DEMOLITION 3400 EARTHWORK COMMON	SF BCY	\$8 \$25	\$0 \$85,000	30.00% 30.00%	\$0 \$110,500	
EARTHWORK (EXCAVATION ROCK)	BCY	\$50	\$0	30.00%	\$0	
EMBANKMENT 40000 BORROW	FCY FCY	\$10 \$25	\$0 \$1,000,000	30.00% 30.00%	\$0 \$1,300,000	
REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$0	30.00%	\$0	
RECONSTRUCT FREEWAY LANE 580	SF	\$100	\$0 \$0	50.00%	\$0 \$0	
STRUCTURE EXCAVATION RETAINING WALLS (1 TO 10 FEET TALL)	CY SF	\$40 \$35	\$0 \$0	25.00% 20.00%	\$0 \$0	
RETAINING WALLS (10 TO 20 FEET TALL)	SF	\$60	\$0	30.00%	\$0	
SOIL NAIL WALLS MSE WALL ROADWAY	SF SF	\$70 \$55	\$0 \$0	30.00% 25.00%	\$0 \$0	
SOUND WALL	LF	\$90	\$0 \$0	50.00%	\$0 \$0	
BOX CULVERT	CY	\$1,000	\$0	30.00%	\$0	
BOX CULVERT DRAINAGE (DIA-INCH-FOOT)	CY LF	\$1,000 \$12	\$0 \$0	30.00% 40.00%	\$0 \$0	
DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$0	40.00%	\$0	
	CY	\$25	\$0	25.00%	\$0	
ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$0 \$0	25.00% 25.00%	\$0 \$0	
ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0	25.00%	\$0	
CONCRETE PAVEMENT GUARD RAIL ROADWAY	CY LF	\$210 \$30	\$0 \$0	20.00% 25.00%	\$0 \$0	
ASPHALT DIKES ROADWAY	LF	\$30 \$4	\$0 \$0	25.00%	\$0 \$0	
STREET RESTORATIONS	SF	\$15	\$0	40.00%	\$0	
SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL	EACH EACH	\$200,000 \$100,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
STREET LIGHTING	EACH	\$4,500	\$0	20.00%	\$0	
	DAYS CY	\$1,200 \$400	\$0 \$0	50.00%	\$0 \$0	
MINOR CONCRETE K RAIL TEMPORARY	LF	\$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
CONCRETE BARRIER	LF	\$50	\$0	30.00%	\$0	
STRIPPING PERMANENT FENCING	LF LF	\$1 \$35	\$0 \$0	20.00% 20.00%	\$0 \$0	
VEHICULAR FENCE GATES	EACH	\$2,000	\$0	20.00%	\$0	
36200 SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY	LF SF	\$15	\$543,000	20.00%	\$651,600	
LANDSCAPING PERMANENT	SY	\$7 \$15	\$0 \$0	30.00% 30.00%	\$0 \$0	
UTILITY RELOCATIONS	LF	\$30	\$0	30.00%	\$0	
DEVELOP PERMANENT WATER SUPPLY YARD LIGHTING	LS EACH	\$100,000 \$2,500	\$0 \$0	30.00% 20.00%	\$0 \$0	
TRACK WORK						\$11,972,450
400 REMOVE EXISTING TRACK	TF	\$40	\$16,000	20.00%	\$19,200	
REMOVE EXISTING TURNOUTS	EACH	\$25,000	\$0	10.00%	\$0	
SHIFT EXISTING TRACK	TF TF	\$100	\$0 \$0	20.00% 20.00%	\$0 \$0	
UPGRADE EXISTING TRACK 17350 TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAS		\$300 \$500	\$0 \$8,675,000	25.00%	\$10,843,750	
TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF	\$450	\$0	25.00%	\$0	
255 GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC) TRACK PANELS	TF SF	\$750 \$75	\$191,250 \$0	20.00% 30.00%	\$229,500 \$0	
CROSSOVER No.15	EACH	\$800,000	\$0	20.00%	\$0	
	EACH	\$1,000,000	\$0	20.00%	\$0 \$0	
TURNOUT (#7) TURNOUT (#8)	EACH EACH	\$200,000 \$210,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
TURNOUT (#9)	EACH	\$220,000	\$0	10.00%	\$0	
TURNOUT (#10) TURNOUT (#14)	EACH EACH	\$250,000 \$325,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
TURNOUT (#15)	EACH	\$350,000	\$0	10.00%	\$0	
2 TURNOUT (#20) TURNOUT (#24)	EACH EACH	\$400,000 \$450,000	\$800,000 \$0	10.00% 10.00%	\$880,000 \$0	
DIAMOND CROSSING	EACH	\$500,000	\$0 \$0	10.00%	\$0 \$0	
DERAIL	EACH	\$100,000	\$0	10.00%	\$0	
BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0	20.00% 30.00%	\$0 \$0	
SIGNAL WORK						\$4,392,000
PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
1 CANTILEVER SIGNAL	EACH	\$100,000 \$200,000	\$200,000	20.00%	\$0 \$240,000	
3 DOG HOUSE (Signal House) 3 NEW ELECTRIC SERVICE	EACH EACH	\$250,000 \$20,000	\$750,000 \$60,000	20.00% 20.00%	\$900,000 \$72,000	
		φ20,000	φ00,000	20.00 %	φι 2,000	•

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK 2 NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS 5 NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$650,000 \$0 \$2,000,000 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$780,000 \$0 \$2,400,000 \$0	
BRIDGE STRUCTURES						\$75,000
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE 20 WIDEN CULVERT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF LF CY	\$200 \$400 \$500 \$400 \$500 \$550 \$400 \$3,000 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION CANOPY STATION PLATFORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH SF SF EACH SF SPACES SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 25.00% 30.00% 25.00% 25.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW LIGHT INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	÷0
						¢40 544 050
TOTAL CONSTRUCTION COST						\$18,544,950

\$20,380,900

	SACRAMENTO SUBDIVISION		David	D 0	DATE	Day 4	
			Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-T4	THORNTON SIDING UPGRADE/EXTENSION						
Estimate							SUB TOTAL
Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	WORK ELEMENT
	CIVIL WORKS						\$940,800
4.8	8 CLEAR & GRUB LIGHT	AC	\$2,500	\$12,000	40.00%	\$16,800	
	CLEAR & GRUB HEAVY	AC	\$5,000	\$0	30.00%	\$0	
1300	DEMOLITION DEARTHWORK COMMON	SF BCY	\$8 \$25	\$0 \$32,500	30.00% 30.00%	\$0 \$42,250	
	EARTHWORK (EXCAVATION ROCK)	BCY	\$50	\$0	30.00%	\$0	
1550	EMBANKMENT D BORROW	FCY FCY	\$10 \$25	\$0 \$387,500	30.00% 30.00%	\$0 \$503,750	
10000	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$007,000 \$0	30.00%	\$0	
	RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION	SF CY	\$100 \$40	\$0 \$0	50.00% 25.00%	\$0 \$0	
	RETAINING WALLS (1 TO 10 FEET TALL)	SF	\$35	\$0 \$0	20.00%	\$0 \$0	
	RETAINING WALLS (10 TO 20 FEET TALL)	SF	\$60	\$0	30.00%	\$0	
	SOIL NAIL WALLS MSE WALL ROADWAY	SF SF	\$70 \$55	\$0 \$0	30.00% 25.00%	\$0 \$0	
	SOUND WALL	LF	\$90	\$0	50.00%	\$0	
	BOX CULVERT BOX CULVERT	CY CY	\$1,000 \$1,000	\$0 \$0	30.00% 30.00%	\$0 \$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$1,000	\$0 \$0	40.00%	\$0 \$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$0	40.00%	\$0	
	IMPORTED BORROW ROADWAY ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES)	CY SF	\$25 \$25	\$0 \$0	25.00% 25.00%	\$0 \$0	
	AGGREGATE BASE ROADWAY	CY	\$45	\$0	25.00%	\$0	
	ASPHALT CONCRETE ROADWAY CONCRETE PAVEMENT	TONS CY	\$65 \$210	\$0 \$0	25.00% 20.00%	\$0 \$0	
	GUARD RAIL ROADWAY	LF	\$30	\$0 \$0	25.00%	\$0 \$0	
	ASPHALT DIKES ROADWAY	LF	\$4	\$0	25.00%	\$0	
	STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL	SF EACH	\$15 \$200,000	\$0 \$0	40.00% 20.00%	\$0 \$0	
	MODIFIED TRAFFIC SIGNAL	EACH	\$100,000	\$0	20.00%	\$0	
	STREET LIGHTING TRAFFIC CONTROL	EACH DAYS	\$4,500 \$1,200	\$0 \$0	20.00% 50.00%	\$0 \$0	
	MINOR CONCRETE	CY	\$400	\$0	30.00%	\$0 \$0	
		LF	\$30 \$50	\$0 ©0	30.00%	\$0 \$0	
	CONCRETE BARRIER STRIPPING	LF LF	\$50 \$1	\$0 \$0	30.00% 20.00%	\$0 \$0	
	PERMANENT FENCING	LF	\$35	\$0	20.00%	\$0	
2100	VEHICULAR FENCE GATES 0 SILT FENCE and ORANGE FENCE	EACH LF	\$2,000 \$15	\$0 \$315,000	20.00% 20.00%	\$0 \$378,000	
2.000	EROSION CONTROL TEMPORARY	SF	\$7	\$0	30.00%	\$0	
	LANDSCAPING PERMANENT UTILITY RELOCATIONS	SY LF	\$15 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0 \$0	30.00%	\$0 \$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$6,553,450
	0 REMOVE EXISTING TRACK	TF	\$40	\$16,000	20.00%	\$19,200	
2	2 REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK	EACH TF	\$25,000 \$100	\$50,000 \$0	10.00% 20.00%	\$55,000 \$0	
	0 UPGRADE EXISTING TRACK	TF	\$300	\$1,020,000	20.00%	\$1,224,000	
6950	D TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF TF	\$500 \$450	\$3,475,000 \$0	25.00% 25.00%	\$4,343,750 \$0	
3	5 GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF	\$450 \$750	\$26,250	20.00%	\$31,500	
	TRACK PANELS	SF	\$75	\$0	30.00%	\$0	
	CROSSOVER No.15 CROSSOVER No.20	EACH EACH	\$800,000 \$1,000,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TURNOUT (#7)	EACH	\$200,000	\$0	10.00%	\$0	
	TURNOUT (#8) TURNOUT (#9)	EACH EACH	\$210,000 \$220,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#10)	EACH	\$250,000	\$0	10.00%	\$0	
	TURNOUT (#14)	EACH EACH	\$325,000 \$350,000	\$0 \$0	10.00%	\$0 \$0	
2	TURNOUT (#15) 2 TURNOUT (#20)	EACH	\$350,000 \$400,000	۵۵ 8800,000\$	10.00% 10.00%	\$0 \$880,000	
	TURNOUT (#24)	EACH	\$450,000	\$0	10.00%	\$0	
	DIAMOND CROSSING DERAIL	EACH EACH	\$500,000 \$100,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	BUMPING POST	EACH	\$25,000	\$0 \$0	20.00%	\$0 \$0	
	UPGRADE MAINTRACK TO CLASS 6	15	\$100	\$U	30.00%	ΦU	\$1,584,000
		FACT	6 /00.00 ⁻	<u></u>	00.0051	A.C.	φ1,304,000
	PEDESTRIAN GATES & SIGNALS CANTILEVER SIGNAL	EACH EACH	\$100,000 \$200,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	1 DOG HOUSE (Signal House)	EACH	\$250,000	\$250,000	20.00%	\$300,000	
	1 NEW ELECTRIC SERVICE	EACH	\$20,000	\$20,000	20.00%	\$24,000	

EACH EACH EACH EACH EACH EACH MILE SF S	\$150,000 \$300,000 \$225,000 \$200,000 \$200,000 \$200,000 \$200,000 \$500 \$500 \$500 \$500 \$500 \$500 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$200,000 \$750 \$2,000,000 \$12 \$500,000 \$12 \$500,000 \$1,500,000 \$50,000 \$50,000 \$50,000 \$550,000 \$50,000 \$200,000 \$50,000 \$200,000 \$550 \$2,0000 \$2,0000 \$2,0000 \$2,0000 \$2,0000 \$2,0000 \$2,0000 \$2,0000 \$2,0000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,000000 \$2,000000 \$2,000000 \$2,000000000 \$2,0000000000	\$0 \$0 \$00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 30.00%	\$0 \$780,000 \$0 \$0 \$480,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$75,000 \$0
EACH EACH EACH EACH EACH MILE SF SF SF SF SF SF SF SF SF SF SF SF SF	\$300,000 \$225,000 \$200,000 \$200,000 \$200,000 \$200,000 \$500 \$500 \$500 \$500 \$500 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$500 \$5	\$0 \$650,000 \$0 \$400,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 30.00%	\$0 \$780,000 \$0 \$480,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EACH EACH EACH EACH MILE SF SF SF SF SF SF SF SF SF SF SF SF SF	\$325,000 \$500,000 \$250,000 \$200,000 \$200,000 \$200,000 \$500 \$500 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$550 \$400 \$500 \$12 \$500,000 \$12 \$500,000 \$12 \$500,000 \$200,000 \$512 \$500,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$500 \$200,000 \$200,000 \$200,000 \$500 \$200,000 \$200,000 \$500 \$200,000\$200 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,00000000 \$200,0000000000	\$650,000 \$0 \$400,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 30.00%	\$780,000 \$0 \$480,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EACH EACH EACH MILE SF SF SF SF SF SF SF SF SF SF SF SF SF	\$500,000 \$250,000 \$200,000 \$200,000 \$200,000 \$500 \$500 \$500 \$500 \$500 \$500 \$50	\$0 \$0 \$400,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 30.00%	\$0 \$480,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EACH EACH MILE SF SF SF SF SF SF SF SF SF SF SF SF SF	\$250,000 \$400,000 \$200,000 \$400 \$500 \$500 \$550 \$400 \$550 \$400 \$3,000 \$750 \$2,000,000 \$12 \$500,000 \$112 \$500,000 \$112 \$500,000 \$12,500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$750 \$2,000,000 \$2,0000\$2,000\$2,000\$2,0000\$2,0000\$2,000\$2,0000\$2,0000\$2,	\$0 \$400,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 30.00%	\$0 \$480,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EACH MILE SF SF SF SF SF SF SF SF SF SF SF SF SF	\$400,000 \$200,000 \$400 \$500 \$500 \$500 \$500 \$500 \$500 \$	\$400,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$480,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
MILE SF SF SF SF SF SF SF SF CY MILE EACH LS EACH LS EACH EACH	\$200,000 \$400 \$500 \$500 \$550 \$400 \$3,000 \$3,000 \$750 \$2,000,000 \$12 \$500,000 \$11,500,000 \$1,500,000 \$300 \$50,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$200,000 \$200,000 \$500,000 \$200,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$200,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,000 \$500,000 \$200,0000\$200,0000\$200,0000\$20000000000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	30.00% 50.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
SF SF SF SF SF SF SF SF SF SF SF SF SF S	\$200 \$400 \$500 \$500 \$500 \$550 \$400 \$3,000 \$750 \$2,000,000 \$200,000 \$12 \$500,000 \$112 \$500,000 \$112 \$500,000 \$30 \$500,000 \$500,000 \$500,000 \$500,000 \$500 \$5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
SF SF SF SF SF SF CY MILE EACH LS EACH LS EACH EACH	\$400 \$500 \$400 \$550 \$550 \$3,000 \$750 \$2,000,000 \$12 \$500,000 \$1,500,000 \$1,500,000 \$5,000 \$22,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
SF SF SF SF SF SF CY MILE EACH LS EACH LS EACH EACH	\$400 \$500 \$400 \$550 \$550 \$3,000 \$750 \$2,000,000 \$12 \$500,000 \$1,500,000 \$1,500,000 \$5,000 \$22,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0
SF SF SF SF SF LF CY MILE EACH LS EACH LF EACH	\$500 \$500 \$500 \$550 \$400 \$3,000 \$750 \$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$22,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	30.00% 30.00% 30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0	\$0
SF SF SF SF LF CY MILE EACH LS EACH LS EACH	\$500 \$400 \$550 \$400 \$3,000 \$750 \$2,000,000 \$200,000 \$12 \$500,000 \$11,500,000 \$1,500,000 \$300 \$30 \$2,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	30.00% 50.00% 30.00% 30.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0
SF SF SF LF CY MILE EACH LS EACH LS EACH	\$400 \$500 \$550 \$400 \$3,000 \$750 \$200,000 \$12 \$500,000 \$12 \$500,000 \$1,500,000 \$300 \$300 \$22,500	\$0 \$0 \$0 \$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0
SF SF LF CY MILE EACH LF EACH LS EACH LF EACH	\$500 \$550 \$400 \$3,000 \$750 \$200,000 \$12 \$500,000 \$1,500,000 \$1,500,000 \$50,000 \$22,500	\$0 \$0 \$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 25.00% 25.00% 25.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0
SF SF LF CY MILE EACH LF EACH LS EACH LF EACH	\$550 \$400 \$3,000 \$750 \$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500	\$0 \$0 \$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 25.00% 25.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0	\$0
SF LF CY MILE EACH LF EACH LS EACH LF EACH	\$400 \$3,000 \$750 \$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500	\$0 \$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 25.00% 25.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$75,000 \$0 \$0 \$0 \$0 \$0 \$0	\$0
LF CY MILE EACH LF EACH LS EACH LF EACH	\$3,000 \$750 \$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$22,500	\$60,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 30.00% 40.00% 30.00% 25.00%	\$75,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0
CY MILE EACH LF EACH LS EACH LF EACH	\$750 \$2,000,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 30.00% 40.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0	\$0
MILE EACH LF EACH LS EACH LF EACH	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$30 \$30 \$2,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00%	\$0 \$0 \$0 \$0	\$0
EACH LF EACH LS EACH LF EACH	\$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 40.00% 30.00% 25.00%	\$0 \$0 \$0	\$0
EACH LF EACH LS EACH LF EACH	\$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 40.00% 30.00% 25.00%	\$0 \$0 \$0	
EACH LF EACH LS EACH LF EACH	\$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500	\$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 40.00% 30.00% 25.00%	\$0 \$0 \$0	
LF EACH LS EACH LF EACH	\$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500	\$0 \$0 \$0 \$0 \$0	30.00% 40.00% 30.00% 25.00%	\$0 \$0	
EACH LS EACH LF EACH	\$500,000 \$1,500,000 \$50,000 \$30 \$2,500	\$0 \$0 \$0 \$0	40.00% 30.00% 25.00%	\$0	
LS EACH LF EACH	\$1,500,000 \$50,000 \$30 \$2,500	\$0 \$0 \$0	30.00% 25.00%		
EACH LF EACH	\$50,000 \$30 \$2,500	\$0 \$0	25.00%		
LF EACH	\$30 \$2,500	\$0		\$0	
EACH	\$2,500		30.00%	\$0 \$0	
		90	30.00%	\$0 \$0	
		\$0	30.00%	\$0	
					\$0
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EACH	\$13,000,000	\$0	20.00%	\$0	
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EAGIT	\$500,000	ψŪ	20.0070	ψυ	
					\$0
SF	\$4	\$0	25.00%	\$0	
SF	\$5	\$0	25.00%	\$0	
SF	\$6	\$0	25.00%	\$0	
SF	\$8	\$0	25.00%	\$0	
SF	\$10	\$0	25.00%	\$0	
SF	\$14	\$0	25.00%	\$0	
	\$16	\$0	25.00%	\$0	
VALUE	\$1	\$0	0.00%	\$0	
					\$0
LF	\$12,000	\$0	30.00%	\$0	
LF		\$0	30.00%	\$0	
LF	\$12,000	\$0		\$0	
LF		\$0	30.00%	\$0	
					\$0
DAVO	¢000	¢0	20.00%	¢0	ţŪ
DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
					\$0
FACH	\$8 000 000	\$0	0 00%	02	
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	EACH SF SF EACH SF SPACES SPACES SPACES SPACES SPACES EACH EACH SF SF SF SF SF SF SF SF SF SF SF SF SF	EACH \$32,000,000 SF \$200 SF \$75 SF \$300 EACH \$50,000 SF \$65 SF \$90 SPACES \$20,000 SF \$25 SPACES \$20,000 SF \$225 SPACES \$200 EACH \$450,000 EACH \$450,000 EACH \$300,000 SF \$16 SF \$16 SF \$10 SF \$112,000 LF \$112,000 LF \$12,000 LF \$12,000 SF \$900 DAYS \$900 DAYS \$900	EACH \$32,000,000 \$0 SF \$200 \$0 SF \$75 \$0 SF \$300 \$0 SF \$50,000 \$0 SF \$65 \$0 SF \$65 \$0 SF \$260 \$0 SPACES \$20,000 \$0 SF \$25 \$0 SPACES \$200 \$0 SF \$25 \$0 SPACES \$200 \$0 SF \$25 \$0 SPACES \$200 \$0 EACH \$450,000 \$0 EACH \$300,000 \$0 EACH \$300,000 \$0 EACH \$300,000 \$0 SF \$4 \$0 SF \$10 \$0 SF \$14 \$0 SF \$14 \$0 SF \$16 \$0 LF \$12,000	EACH \$32,000,000 \$0 50.00% SF \$200 \$0 20.00% SF \$75 \$0 20.00% SF \$300 \$0 20.00% EACH \$50,000 \$0 20.00% SF \$300 \$0 20.00% SF \$50,000 \$0 25.00% SF \$900 \$0 30.00% SPACES \$20,000 \$0 25.00% SPACES \$20,000 \$0 25.00% SPACES \$200 \$0 30.00% EACH \$450,000 \$0 25.00% SPACES \$200 \$0 30.00% EACH \$300,000 \$0 25.00% SF \$5 \$0 25.00% SF \$6 \$0 25.00% SF \$10 \$0 25.00% SF \$11 \$0 25.00% SF \$14 \$0 25.00% <t< td=""><td>EACH \$32,000,000 \$0 50.00% \$0 SF \$200 \$0 20.00% \$0 SF \$75 \$0 20.00% \$0 SF \$300 \$0 20.00% \$0 EACH \$50,000 \$0 25.00% \$0 SF \$655 \$0 30.00% \$0 SF \$900 \$0 25.00% \$0 SPACES \$20,000 \$0 25.00% \$0 SACH \$450,000 \$0 25.00% \$0 EACH \$300,000 \$0 25.00% \$0 SF \$6 \$0 25.00% \$0 SF \$10 \$0 25.00% \$0 SF \$14 \$0 25.00% \$0 <</td></t<>	EACH \$32,000,000 \$0 50.00% \$0 SF \$200 \$0 20.00% \$0 SF \$75 \$0 20.00% \$0 SF \$300 \$0 20.00% \$0 EACH \$50,000 \$0 25.00% \$0 SF \$655 \$0 30.00% \$0 SF \$900 \$0 25.00% \$0 SPACES \$20,000 \$0 25.00% \$0 SACH \$450,000 \$0 25.00% \$0 EACH \$300,000 \$0 25.00% \$0 SF \$6 \$0 25.00% \$0 SF \$10 \$0 25.00% \$0 SF \$14 \$0 25.00% \$0 <

\$9,153,250 \$10,059,422

	SACRAMENTO SUBDIVISION				DATE		
			Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-T5	CURVE CORRECTION NORTH OF NEW HOPE ROAD						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
Quantity	CIVIL WORKS						\$93,960
							,
1000	CLEAR & GRUB LIGHT CLEAR & GRUB HEAVY DEMOLITION EARTHWORK COMMON EARTHWORK (EXCAVATION ROCK) EMBANKMENT BORROW REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL) SOIL NAIL WALLS SOUND WALL BOX CULVERT BOX CULVERT BOX CULVERT DRAINAGE (DIA-INCH-FOOT) DRAINAGE (DIA-INCH-FOOT) IMPORTED BORROW ROADWAY ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY ASPHALT CONCRETE ROADWAY ASPHALT DIKES ROADWAY STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL STREET LIGHTING TRAFFIC CONTROL MINOR CONCRETE V. DWI TUPDCENDY	AC SFY BCYY FCY FS SF SF FFY SCY FFY FCY FFY SCY FFY SFY SFF FFY SCY FFY SCY FFY FFY FFY SCY FFY FFY FFY FFY FFY FFY FFY FFY FFY F	\$2,500 \$5,000 \$88 \$255 \$400 \$100 \$400 \$100 \$335 \$60 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$12 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$210 \$30 \$30 \$30 \$310 \$30 \$315 \$315 \$320,000 \$400 \$310,000 \$4,0000\$\$4,0000\$\$4,0000\$\$4,000	\$0 \$1,000 \$0 \$10,000 \$25,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 40.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 20.00\%\\ 20.00\%\\ 20.00\%\\ 20.00\%\\ 30.00\%\\ 20.00\%\\ 30.00\%\\ 30.00\%\\ 20.00\%\\ 20.00\%\\ 20.00\%\\ 20.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 20.00\%\\$	\$0 \$1,300 \$0 \$13,000 \$32,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
2620	K RAIL TEMPORARY CONCRETE BARRIER STRIPPING PERMANENT FENCING VEHICULAR FENCE GATES SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY LANDSCAPING PERMANENT UTILITY RELOCATIONS DEVELOP PERMANENT WATER SUPPLY YARD LIGHTING	LF LF LF EACH LF SF SY LF LS EACH	\$30 \$50 \$1 \$35 \$2,000 \$15 \$7 \$15 \$30 \$100,000 \$2,500	\$0 \$0 \$0 \$39,300 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 20.00% 20.00% 20.00% 30.00% 30.00% 30.00% 30.00% 20.00%	\$0 \$0 \$0 \$0 \$0 \$47,160 \$0 \$0 \$0 \$0 \$0 \$0	A400.000
	TRACK WORK						\$133,200
1110	REMOVE EXISTING TRACK REMOVE EXISTING TRANOUTS SHIFT EXISTING TRACK UPGRADE EXISTING TRACK TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC) TRACK PANELS CROSSOVER No.15 CROSSOVER No.20 TURNOUT (#7) TURNOUT (#7) TURNOUT (#10) TURNOUT (#10) TURNOUT (#14) TURNOUT (#15) TURNOUT (#20) TURNOUT (#24) DIAMOND CROSSING DERAIL BUMPING POST UPGRADE MAINTRACK TO CLASS 6	TF EACH TF TF TF TF SF EACH EACH EACH EACH EACH EACH EACH EACH	\$40 \$25,000 \$100 \$300 \$450 \$75 \$800,000 \$1,000,000 \$220,000 \$220,000 \$220,000 \$220,000 \$325,000 \$350,000 \$450,000 \$100,000 \$200,000 \$100,000 \$100,000	\$0 \$0 \$111,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 10.00% 20.00% 25.00% 25.00% 20.00% 20.00% 10.0	\$0 \$0 \$133,200 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
	SIGNAL WORK						\$0
	PEDESTRIAN GATES & SIGNALS CANTILEVER SIGNAL DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH EACH EACH	\$100,000 \$200,000 \$250,000 \$20,000	\$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00%	\$0 \$0 \$0 \$0	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF CY	\$200 \$400 \$500 \$500 \$500 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0 0 0 0 0 0 0 0 0 0 0
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12,500,000 \$15,500,000 \$30 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION CANOPY STATION PLATFORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SPACES EACH EACH	\$13,000,000 \$32,000,000 \$705 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 20.00% 25.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS	-		• -			\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	**

\$227,160

\$249,649

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
-T6	CURVE CORRECTION SOUTH OF DESMOND ROAD						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$78,300
	CLEAR & GRUB LIGHT	AC	\$2,500	\$0	40.00%	\$0	
0.1	1 CLEAR & GRUB HEAVY	AC	\$5,000	\$500	30.00%	\$650	
	DEMOLITION EARTHWORK COMMON	SF BCY	\$8 \$25	\$0 \$0	30.00% 30.00%	\$0 \$0	
	EARTHWORK (EXCAVATION ROCK)	BCY	\$50	\$0	30.00%	\$0	
	0 EMBANKMENT	FCY	\$10	\$5,000	30.00%	\$6,500	
500	0 BORROW REMOVE HOV LANE CONTROLS SYSTEM	FCY LF	\$25 \$400	\$12,500 \$0	30.00% 30.00%	\$16,250 \$0	
	RECONSTRUCT FREEWAY LANE 580	SF	\$100	\$0	50.00%	\$0	
	STRUCTURE EXCAVATION	CY	\$40	\$0	25.00%	\$0	
	RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL)	SF SF	\$35 \$60	\$0 \$0	20.00% 30.00%	\$0 \$0	
	SOIL NAIL WALLS	SF	\$70	\$0	30.00%	\$0	
	MSE WALL ROADWAY	SF	\$55	\$0	25.00%	\$0	
	SOUND WALL BOX CULVERT	LF CY	\$90 \$1,000	\$0 \$0	50.00% 30.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0	30.00%	\$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$0	40.00%	\$0	
	DRAINAGE (DIA-INCH-FOOT) IMPORTED BORROW ROADWAY	LF CY	\$12 \$25	\$0 \$0	40.00% 25.00%	\$0 \$0	
	ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES)	SF	\$25	\$0 \$0	25.00%	\$0 \$0	
	AGGREGATE BASE ROADWAY	CY	\$45	\$0	25.00%	\$0	
	ASPHALT CONCRETE ROADWAY CONCRETE PAVEMENT	TONS CY	\$65 \$210	\$0 \$0	25.00% 20.00%	\$0 \$0	
	GUARD RAIL ROADWAY	LF	\$30	\$0 \$0	25.00%	\$0 \$0	
	ASPHALT DIKES ROADWAY	LF	\$4	\$0	25.00%	\$0	
	STREET RESTORATIONS	SF EACH	\$15	\$0 \$0	40.00%	\$0 \$0	
	SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL	EACH	\$200,000 \$100,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	STREET LIGHTING	EACH	\$4,500	\$0	20.00%	\$0	
	TRAFFIC CONTROL	DAYS	\$1,200	\$0	50.00%	\$0	
	MINOR CONCRETE K RAIL TEMPORARY	CY LF	\$400 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	CONCRETE BARRIER	LF	\$50	\$0	30.00%	\$0	
	STRIPPING	LF	\$1	\$0	20.00%	\$0	
	PERMANENT FENCING VEHICULAR FENCE GATES	LF EACH	\$35 \$2,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
3050	0 SILT FENCE and ORANGE FENCE	LF	\$15	\$45,750	20.00%	\$54,900	
	EROSION CONTROL TEMPORARY	SF	\$7	\$0	30.00%	\$0	
	LANDSCAPING PERMANENT UTILITY RELOCATIONS	SY LF	\$15 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0	30.00%	\$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$159,000
	REMOVE EXISTING TRACK	TF	\$40	\$0	20.00%	\$0	
132	REMOVE EXISTING TURNOUTS 5 SHIFT EXISTING TRACK	EACH TF	\$25,000 \$100	\$0 \$132,500	10.00% 20.00%	\$0 \$159,000	
102	UPGRADE EXISTING TRACK	TF	\$300	\$0	20.00%	\$0	
	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST)	TF	\$500 \$450	\$0 ©	25.00%	\$0 \$0	
	TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF TF	\$450 \$750	\$0 \$0	25.00% 20.00%	\$0 \$0	
	TRACK PANELS	SF	\$75	\$0	30.00%	\$0	
	CROSSOVER No.15	EACH	\$800,000	\$0 ©0	20.00%	\$0 \$0	
	CROSSOVER №.20 TURNOUT (#7)	EACH EACH	\$1,000,000 \$200,000	\$0 \$0	20.00% 10.00%	\$0 \$0	
	TURNOUT (#8)	EACH	\$210,000	\$0	10.00%	\$0	
	TURNOUT (#9)	EACH	\$220,000	\$0	10.00%	\$0	
	TURNOUT (#10) TURNOUT (#14)	EACH EACH	\$250,000 \$325,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#15)	EACH	\$350,000	\$0 \$0	10.00%	\$0 \$0	
	TURNOUT (#20)	EACH	\$400,000	\$0	10.00%	\$0	
	TURNOUT (#24) DIAMOND CROSSING	EACH EACH	\$450,000 \$500,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	DERAIL	EACH	\$500,000 \$100,000	\$0 \$0	10.00%	\$0 \$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0	20.00% 30.00%	\$0 \$0	
	SIGNAL WORK		φ100	ψŪ	50.0070	ψŪ	\$0
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	ψŪ
	CANTILEVER SIGNAL	EACH	\$100,000 \$200,000	\$0 \$0	20.00%	\$0 \$0	
		EACH	\$250,000	\$0	20.00%	\$0	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6 BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT	EACH EACH EACH EACH EACH MILE SF SF SF SF SF SF SF SF SF SF SF SF SF	\$150,000 \$300,000 \$325,000 \$250,000 \$400,000 \$200,0000 \$200,000 \$200,0000 \$200,0000 \$200,00000 \$200,0000 \$200,0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 20.00% 20.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0
UNDERPASS STRUCTURE	CY	\$750	\$0	25.00%	\$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION PLATFORM STRUCTURES NEW STATION PAITORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 20.00% 25.00% 30.00% 25.00% 25.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$8 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

\$237,300

\$260,793

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
-T7	PHILLIPS SIDING UPGRADE/EXTENSION						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$828,500
3.5	5 CLEAR & GRUB LIGHT	AC	\$2,500	\$8,750	40.00%	\$12,250	
	CLEAR & GRUB HEAVY	AC	\$5,000	\$0 \$0	30.00%	\$0 \$0	
950	DEMOLITION) EARTHWORK COMMON	SF BCY	\$8 \$25	\$0 \$23,750	30.00% 30.00%	\$0 \$30,875	
	EARTHWORK (EXCAVATION ROCK)	BCY	\$50	\$0	30.00%	\$0	
1115	EMBANKMENT) BORROW	FCY FCY	\$10 \$25	\$0 \$278,750	30.00% 30.00%	\$0 \$362,375	
11150	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$278,750 \$0	30.00%	\$302,375	
	RECONSTRUCT FREEWAY LANE 580	SF	\$100	\$0	50.00%	\$0	
	STRUCTURE EXCAVATION RETAINING WALLS (1 TO 10 FEET TALL)	CY SF	\$40 \$35	\$0 \$0	25.00% 20.00%	\$0 \$0	
	RETAINING WALLS (10 TO 20 FEET TALL)	SF	\$60	\$0 \$0	30.00%	\$0 \$0	
	SOIL NAIL WALLS	SF	\$70	\$0	30.00%	\$0	
	MSE WALL ROADWAY SOUND WALL	SF LF	\$55 \$90	\$0 \$0	25.00% 50.00%	\$0 \$0	
	BOX CULVERT	CY	\$90 \$1,000	\$0 \$0	30.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0	30.00%	\$0	
	drainage (dia-inch-foot) Drainage (dia-inch-foot)	LF LF	\$12 \$12	\$0 \$0	40.00% 40.00%	\$0 \$0	
	IMPORTED BORROW ROADWAY	CY	\$25	\$0 \$0	25.00%	\$0 \$0	
	ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES)	SF	\$25	\$0	25.00%	\$0	
	AGGREGATE BASE ROADWAY	CY	\$45	\$0	25.00%	\$0	
	ASPHALT CONCRETE ROADWAY CONCRETE PAVEMENT	TONS CY	\$65 \$210	\$0 \$0	25.00% 20.00%	\$0 \$0	
	GUARD RAIL ROADWAY	LF	\$30	\$0	25.00%	\$0	
	ASPHALT DIKES ROADWAY	LF	\$4	\$0	25.00%	\$0	
	STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL	SF EACH	\$15 \$200,000	\$0 \$0	40.00% 20.00%	\$0 \$0	
	MODIFIED TRAFFIC SIGNAL	EACH	\$100,000	\$0	20.00%	\$0	
	STREET LIGHTING	EACH	\$4,500	\$0	20.00%	\$0	
	TRAFFIC CONTROL MINOR CONCRETE	DAYS CY	\$1,200 \$400	\$0 \$0	50.00% 30.00%	\$0 \$0	
	K RAIL TEMPORARY	LF	\$30	\$0	30.00%	\$0	
	CONCRETE BARRIER	LF	\$50	\$0	30.00%	\$0	
	STRIPPING PERMANENT FENCING	LF LF	\$1 \$35	\$0 \$0	20.00% 20.00%	\$0 \$0	
	VEHICULAR FENCE GATES	EACH	\$2,000	\$0 \$0	20.00%	\$0 \$0	
23500) SILT FENCE and ORANGE FENCE	LF	\$15	\$352,500	20.00%	\$423,000	
	EROSION CONTROL TEMPORARY LANDSCAPING PERMANENT	SF SY	\$7 \$15	\$0 \$0	30.00% 30.00%	\$0 \$0	
	UTILITY RELOCATIONS	LF	\$30	\$0	30.00%	\$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0	30.00%	\$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$6,287,200
) REMOVE EXISTING TRACK 2 REMOVE EXISTING TURNOUTS	TF EACH	\$40 \$25,000	\$16,000 \$50,000	20.00%	\$19,200 \$55,000	
	SHIFT EXISTING TACK	TF	\$25,000 \$100	\$50,000 \$0	10.00% 20.00%	\$55,000 \$0	
) UPGRADE EXISTING TRACK	TF	\$300	\$1,920,000	20.00%	\$2,304,000	
4760) TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF TF	\$500 \$450	\$2,380,000 \$0	25.00% 25.00%	\$2,975,000 \$0	
60) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF	\$450 \$750	\$0 \$45,000	25.00%	\$0 \$54,000	
	TRACK PANELS	SF	\$75	\$0	30.00%	\$0	
	CROSSOVER No.15 CROSSOVER No.20	EACH EACH	\$800,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TURNOUT (#7)	EACH	\$1,000,000 \$200,000	\$0 \$0	10.00%	\$0 \$0	
	TURNOUT (#8)	EACH	\$210,000	\$0	10.00%	\$0	
	TURNOUT (#9) TURNOUT (#10)	EACH EACH	\$220,000 \$250.000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#10) TURNOUT (#14)	EACH	\$250,000 \$325,000	\$0 \$0	10.00%	\$0 \$0	
	TURNOUT (#15)	EACH	\$350,000	\$0	10.00%	\$0	
2	2 TURNOUT (#20)	EACH EACH	\$400,000 \$450,000	\$800,000 \$0	10.00% 10.00%	\$880,000 \$0	
	TURNOUT (#24) DIAMOND CROSSING	EACH	\$450,000 \$500,000	\$0 \$0		\$0 \$0	
	DERAIL	EACH	\$100,000	\$0	10.00%	\$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0		\$0 \$0	
	SIGNAL WORK						\$1,584,000
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
	CANTILEVER SIGNAL 1 DOG HOUSE (Signal House)	EACH EACH	\$200,000 \$250,000	\$0 \$250,000	20.00% 20.00%	\$0 \$300,000	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK 2 NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS 1 NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$650,000 \$0 \$400,000 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$780,000 \$0 \$0 \$480,000 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE WIDEN CULVERT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF LF CY	\$200 \$400 \$500 \$500 \$400 \$550 \$400 \$3,000 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION PLATFORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 25.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF SF VALUE	\$4 \$5 \$8 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	ţŬ
TOTAL CONSTRUCTION COST						\$8,699,700

Escalation from 2017 to 2020 (9.9%)

\$9,560,970

	SACRAMENTO SUBDIVISION				DATE		
			Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-T8a	ELK GROVE SIDING VARIANT 1		0/2/2020				
Estimate							SUB TOTAL
Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	WORK ELEMENT
	CIVIL WORKS						\$1,215,350
7.1	CLEAR & GRUB LIGHT	AC	\$2,500	\$17,750	40.00%	\$24,850	
	CLEAR & GRUB HEAVY DEMOLITION	AC SF	\$5,000 \$8	\$0 \$0	30.00% 30.00%	\$0 \$0	
2000	EARTHWORK COMMON	BCY	\$25	\$50,000	30.00%	\$65,000	
	EARTHWORK (EXCAVATION ROCK)	BCY FCY	\$50 \$10	\$0 \$0	30.00%	\$0	
23000	EMBANKMENT BORROW	FCY	\$25	\$0 \$575,000	30.00% 30.00%	\$0 \$747,500	
	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$0	30.00%	\$0	
	RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION	SF CY	\$100 \$40	\$0 \$0	50.00% 25.00%	\$0 \$0	
	RETAINING WALLS (1 TO 10 FEET TALL)	SF	\$35	\$0 \$0	20.00%	\$0 \$0	
	RETAINING WALLS (10 TO 20 FEET TALL)	SF	\$60	\$0	30.00%	\$0	
	SOIL NAIL WALLS MSE WALL ROADWAY	SF SF	\$70 \$55	\$0 \$0	30.00% 25.00%	\$0 \$0	
	SOUND WALL	LF	\$90	\$0	50.00%	\$0	
	BOX CULVERT	CY	\$1,000	\$0	30.00%	\$0	
	BOX CULVERT DRAINAGE (DIA-INCH-FOOT)	CY LF	\$1,000 \$12	\$0 \$0	30.00% 40.00%	\$0 \$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$0	40.00%	\$0	
		CY	\$25	\$0	25.00%	\$0	
	ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$0 \$0	25.00% 25.00%	\$0 \$0	
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0	25.00%	\$0	
		CY LF	\$210	\$0 \$0	20.00%	\$0 \$0	
	GUARD RAIL ROADWAY ASPHALT DIKES ROADWAY	LF	\$30 \$4	\$0 \$0	25.00% 25.00%	\$0 \$0	
	STREET RESTORATIONS	SF	\$15	\$0	40.00%	\$0	
	SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL	EACH EACH	\$200,000 \$100,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	STREET LIGHTING	EACH	\$100,000	\$0 \$0	20.00%	\$0 \$0	
	TRAFFIC CONTROL	DAYS	\$1,200	\$0	50.00%	\$0	
	MINOR CONCRETE K RAIL TEMPORARY	CY LF	\$400 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	CONCRETE BARRIER	LF	\$50	\$0	30.00%	\$0	
	STRIPPING	LF	\$1	\$0	20.00%	\$0	
	PERMANENT FENCING VEHICULAR FENCE GATES	LF EACH	\$35 \$2,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
21000	SILT FENCE and ORANGE FENCE	LF	\$15	\$315,000	20.00%	\$378,000	
	EROSION CONTROL TEMPORARY	SF	\$7	\$0	30.00%	\$0	
	LANDSCAPING PERMANENT UTILITY RELOCATIONS	SY LF	\$15 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0	30.00%	\$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$7,036,450
400		TF	\$40	\$16,000	20.00%	\$19,200	
	REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK	EACH TF	\$25,000 \$100	\$0 \$0	10.00% 20.00%	\$0 \$0	
	UPGRADE EXISTING TRACK	TF	\$300	\$0	20.00%	\$0	
9850	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST)	TF	\$500	\$4,925,000	25.00%	\$6,156,250	
40	TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF TF	\$450 \$750	\$0 \$30,000	25.00% 20.00%	\$0 \$36,000	
	TRACK PANELS	SF	\$75	\$0	30.00%	\$0	
	CROSSOVER No.15 CROSSOVER No.20	EACH EACH	\$800,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TURNOUT (#7)	EACH	\$1,000,000 \$200,000	\$0 \$0	10.00%	\$0 \$0	
	TURNOUT (#8)	EACH	\$210,000	\$0	10.00%	\$0	
	TURNOUT (#9) TURNOUT (#10)	EACH EACH	\$220,000 \$250,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#14)	EACH	\$325,000	\$0 \$0	10.00%	\$0	
	TURNOUT (#15)	EACH	\$350,000	\$350,000	10.00%	\$385,000	
1	TURNOUT (#20) TURNOUT (#24)	EACH EACH	\$400,000 \$450,000	\$400,000 \$0	10.00% 10.00%	\$440,000 \$0	
	DIAMOND CROSSING	EACH	\$500,000	\$0	10.00%	\$0	
		EACH	\$100,000	\$0	10.00%	\$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0	20.00% 30.00%	\$0 \$0	
	SIGNAL WORK						\$1,908,000
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
	CANTILEVER SIGNAL	EACH	\$200,000	\$0	20.00%	\$0	
	DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH	\$250,000 \$20,000	\$500,000 \$40,000	20.00% 20.00%	\$600,000 \$48,000	
2			¥20,000	φ-10,000	20.0070	φ-10,000	-

EACH EACH EACH EACH EACH EACH MILE SF SF SF	\$150,000 \$300,000 \$325,000 \$250,000 \$400,000 \$200,000 \$200,000	\$0 \$0 \$650,000 \$0 \$0 \$400,000 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$780,000 \$0 \$480,000 \$0	
EACH EACH MILE SF SF SF	\$250,000 \$400,000 \$200,000 \$200	\$0 \$400,000 \$0	20.00% 20.00%	\$0 \$480,000	
SF SF SF	\$200		30.00%	\$0	
SF SF					
SF SF		÷ -			\$2,080,000
SF SF SF LF	\$400 \$500 \$400 \$500 \$550 \$400 \$3,000 \$750	\$0 \$0 \$1,600,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00% 25.00%	\$0 \$0 \$2,080,000 \$0 \$0 \$0 \$0 \$0	
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	¢2,000,000	¢o	25.00%	0.0	ψ υ
EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	23.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
					\$0
EACH EACH SF	\$13,000,000 \$32,000,000 \$200	\$0 \$0 \$0	20.00% 50.00% 20.00%	\$0 \$0 \$0	ψŪ
SF SF EACH SF SF SPACES SPACES SPACES EACH EACH	\$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 25.00% 30.00% 25.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
					\$0
SF SF SF SF SF SF Vill, VALUE	\$4 \$5 \$6 \$18 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
					\$0
LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
					\$0
DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
3					\$0
EACH	\$8,000,000	\$0	0.00%	\$0	
	LF CY MILE EACH LF EACH LF EACH LF EACH SF SF SF SF SF SF SF SF SF SF SF SF SF	LF \$3,000 CY \$750 MILE \$2,000,000 LF \$12 EACH \$200,000 LF \$12 EACH \$500,000 LF \$13,000 EACH \$2,500 LF \$30 EACH \$2,500 LF \$50 EACH \$22,500 LF \$50 SF \$75 SF \$300 EACH \$32,000,000 SF \$75 SF \$300 EACH \$32,000,000 SF \$75 SF \$300 EACH \$32,000,000 SF \$220 SF \$75 SF \$300 EACH \$32,000,000 SF \$55 SF \$300 EACH \$32,000,000 SF \$55 SF \$300 EACH \$300,000 SF \$55 SF \$300 EACH \$450,000 EACH \$450,000 EACH \$450,000 EACH \$300,000 SF \$25 SPACES \$200 EACH \$450,000 EACH \$300,000 SF \$114 SF \$114 SF \$116 VIII, VALUE \$11 LF \$12,000 LF \$12	LF \$3,000 \$0 CY \$750 \$0 MILE \$2,000,000 \$0 LF \$12 \$0 EACH \$500,000 \$0 LF \$12 \$0 EACH \$500,000 \$0 LF \$30 \$0 EACH \$50,000 \$0 LF \$30 \$0 EACH \$2,500 \$0 LF \$50 \$0 EACH \$2,000 \$0 SF \$75 \$0 SF \$200 \$0 SF \$200 \$0 SF \$200 \$0 SF \$200 \$0 SF \$90 \$0 SF \$90 \$0 SPACES \$2,000 \$0 SF \$25 \$0 SF \$200 \$0 EACH \$300,000 \$0 EACH \$300,000	LF \$3,000 \$0 25,00% MILE \$2,000,000 \$0 30,00% EACH \$200,000 \$0 30,00% LF \$12 \$0 30,00% EACH \$50,000 \$0 40,00% LS \$1,500,000 \$0 25,00% EACH \$50,000 \$0 25,00% LF \$30 \$0 30,00% EACH \$25,000 \$0 25,00% EACH \$21,000 \$0 20,00% EACH \$32,000,000 \$0 20,00% SF \$200 \$0 20,00% SF \$25 \$0 20,00% SPACES \$20,000 \$0 25,00%	LF \$3,000 \$0 25,00% \$0 MILE \$2,000,000 \$0 25,00% \$0 EACH \$200,000 \$0 30,00% \$0 LF \$12 \$0 30,00% \$0 EACH \$50,000 \$0 40,00% \$0 LF \$1,500,000 \$0 25,00% \$0 EACH \$50,000 \$0 25,00% \$0 LF \$2,500 \$0 30,00% \$0 EACH \$50,000 \$0 20,00% \$0 EACH \$2,000,000 \$0 20,00% \$0 SF \$200 \$0 20,00% \$0 SF \$20,000 \$0 20,00% \$0 SF \$20,000 \$0 25,00% \$0 SF \$20,000 \$0 25,00% \$0 SF \$20,000 \$0 25,00% \$0 SPACES \$2,000 \$0 25,00% <t< td=""></t<>

\$13,451,540

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
T8b	ELK GROVE SIDING VARIANT 2						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$1,215,350
7.1	CLEAR & GRUB LIGHT	AC	\$2,500	\$17,750	40.00%	\$24,850	
	CLEAR & GRUB HEAVY DEMOLITION	AC SF	\$5,000	\$0 \$0	30.00% 30.00%	\$0 \$0	
2000) EARTHWORK COMMON	BCY	\$8 \$25	\$0 \$50,000	30.00%	\$65,000	
	EARTHWORK (EXCAVATION ROCK)	BCY	\$50	\$0	30.00%	\$0	
23000	EMBANKMENT) BORROW	FCY FCY	\$10 \$25	\$0 \$575,000	30.00% 30.00%	\$0 \$747,500	
20000	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$0	30.00%	\$0	
	RECONSTRUCT FREEWAY LANE 580	SF	\$100	\$0	50.00%	\$0	
	STRUCTURE EXCAVATION RETAINING WALLS (1 TO 10 FEET TALL)	CY SF	\$40 \$35	\$0 \$0	25.00% 20.00%	\$0 \$0	
	RETAINING WALLS (10 TO 20 FEET TALL)	SF	\$60	\$0	30.00%	\$0	
	SOIL NAIL WALLS MSE WALL ROADWAY	SF SF	\$70 \$55	\$0 \$0	30.00% 25.00%	\$0 \$0	
	SOUND WALL	LF	\$90	\$0 \$0	50.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0	30.00%	\$0	
	BOX CULVERT DRAINAGE (DIA-INCH-FOOT)	CY LF	\$1,000 \$12	\$0 \$0	30.00% 40.00%	\$0 \$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$0 \$0	40.00%	\$0 \$0	
		CY	\$25	\$0 \$0	25.00%	\$0	
	ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$0 \$0	25.00% 25.00%	\$0 \$0	
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0	25.00%	\$0	
		CY LF	\$210	\$0 \$0	20.00%	\$0 \$0	
	GUARD RAIL ROADWAY ASPHALT DIKES ROADWAY	LF	\$30 \$4	\$0 \$0	25.00% 25.00%	\$0 \$0	
	STREET RESTORATIONS	SF	\$15	\$0	40.00%	\$0	
	SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL	EACH EACH	\$200,000 \$100,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	STREET LIGHTING	EACH	\$4,500	\$0 \$0	20.00%	\$0 \$0	
	TRAFFIC CONTROL	DAYS	\$1,200	\$0	50.00%	\$0	
	MINOR CONCRETE K RAIL TEMPORARY	CY LF	\$400 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	CONCRETE BARRIER	LF	\$50	\$0 \$0	30.00%	\$0	
	STRIPPING	LF LF	\$1	\$0	20.00%	\$0 \$0	
	PERMANENT FENCING VEHICULAR FENCE GATES	EACH	\$35 \$2,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
2100	SILT FENCE and ORANGE FENCE	LF	\$15	\$315,000	20.00%	\$378,000	
	EROSION CONTROL TEMPORARY LANDSCAPING PERMANENT	SF SY	\$7 \$15	\$0 \$0	30.00% 30.00%	\$0 \$0	
	UTILITY RELOCATIONS	LF	\$30	\$0		\$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0	30.00%	\$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
							\$7,036,450
400) REMOVE EXISTING TRACK REMOVE EXISTING TURNOUTS	TF EACH	\$40 \$25,000	\$16,000 \$0	20.00% 10.00%	\$19,200 \$0	
	SHIFT EXISTING TRACK	TF	\$100	\$0	20.00%	\$0	
0.950	UPGRADE EXISTING TRACK) TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST)	TF TF	\$300 \$500	\$0 \$4,925,000	20.00% 25.00%	\$0 \$6,156,250	
3030	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF	\$500 \$450	\$4,925,000 \$0	25.00% 25.00%	\$6,156,250 \$0	
40	GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF	\$750	\$30,000	20.00%	\$36,000	
	TRACK PANELS CROSSOVER No.15	SF EACH	75\$ 8800,000\$	\$0 \$0	30.00% 20.00%	\$0 \$0	
	CROSSOVER No.20	EACH	\$1,000,000	\$0	20.00%	\$0	
	TURNOUT (#7)	EACH	\$200,000 \$210,000	\$0 \$0	10.00%	\$0 \$0	
	TURNOUT (#8) TURNOUT (#9)	EACH EACH	\$210,000 \$220,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#10)	EACH	\$250,000	\$0	10.00%	\$0	
	TURNOUT (#14) TURNOUT (#15)	EACH EACH	\$325,000 \$350,000	\$0 \$350,000	10.00% 10.00%	\$0 \$385,000	
	TURNOUT (#20)	EACH	\$400,000	\$400,000	10.00%	\$440,000	
		EACH EACH	\$450,000 \$500,000	\$0 \$0		\$0 \$0	
	DIAMOND CROSSING DERAIL	EACH	\$500,000 \$100,000	\$0 \$0		\$0 \$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0	20.00%	\$0 \$0	
	SIGNAL WORK					• •	\$1,908,000
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
	CANTILEVER SIGNAL 2 DOG HOUSE (Signal House)	EACH EACH	\$200,000	\$0 \$500,000	20.00%	\$0 \$00,000	
		FACH	\$250,000	\$500,000	20.00%	\$600,000	

NEW INTERMEDIATE SIGNALS SINGLE TRACK	EACH	\$150,000	\$0	20.00%	\$0	
NEW INTERMEDIATE SIGNALS DOUBLE TRACK	EACH	\$300,000	\$0	20.00%	\$0	
	EACH	\$325,000	\$650,000	20.00%	\$780,000	
EW CROSSOVER SIGNALLING EW GRADE CROSSING SIGNALS	EACH EACH	\$500,000 \$250,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
EW CROSSING SIGNALS	EACH	\$400,000	\$400,000	20.00%	\$480,000	
GRADE SIGNALS TO CLASS 6	MILE	\$200,000	\$0	30.00%	\$0	
BRIDGE STRUCTURES						\$3,640,000
DGE REMOVAL	SF	\$200	\$0	50.00%	\$0	φ0,040,000
LROAD SHORT BRIDGE CONCRETE	SF	\$400	\$0 \$0	30.00%	\$0 \$0	
DAD AERIAL GUIDEWAY	SF	\$500	\$0	30.00%	\$0	
ROAD BRIDGE STEEL	SF	\$500	\$2,800,000	30.00%	\$3,640,000	
HWAY BRIDGE CONCRETE HWAY BRIDGE STEEL.	SF SF	\$400 \$500	\$0 \$0	50.00% 30.00%	\$0 \$0	
ESTLE BRIDGE STEEL	SF	\$550 \$550	\$0 \$0	30.00%	\$0 \$0	
DESTRIAN BRIDGE	SF	\$400	\$0	30.00%	\$0	
IDEN CULVERT	LF	\$3,000	\$0	25.00%	\$0	
NDERPASS STRUCTURE	CY	\$750	\$0	25.00%	\$0	
TRAIN CONTROL						\$0
DSITIVE TRAIN CONTROL AIN CONTROL SYSTEM	MILE EACH	\$2,000,000 \$200,000	\$0 \$0	25.00% 30.00%	\$0 \$0	
AIN CONTROL CABLING	LF	\$12	\$0	30.00%	\$0	
AIN CONTROL DIGITAL CBOSS	EACH	\$500,000	\$0	40.00%	\$0	
IPUTER TRAFFIC MANAGEMENT IMERCIAL ELECTRICAL SERVICE	LS EACH	\$1,500,000 \$50,000	\$0 \$0	30.00% 25.00%	\$0 \$0	
E UTILITIES WITHIN TRACKWAY	LF	\$50,000 \$30	\$0 \$0	30.00%	\$0 \$0	
E UTILITIES CROSSING TRACKS	EACH	\$2,500	\$0	30.00%	\$0	
E UTILITIES FIBER OPTIC PARALLEL TO TRACKS	LF	\$50	\$0	30.00%	\$0	
STATIONS						\$0
E A SMALL INTERMODEL STATION	EACH	\$13,000,000	\$0	20.00%	\$0	
K LARGE INTERMODEL STATION	EACH	\$32,000,000	\$0	50.00%	\$0	
ION PLATFORM STRUCTURES NEW	SF SF	\$200	\$0 \$0	20.00%	\$0 ©0	
ION CANOPY ION PLATFORM STRUCTURES UPGRADE	SF	\$75 \$300	\$0 \$0	20.00% 20.00%	\$0 \$0	
ION PRIMARY ELECTRICAL SERVICE	EACH	\$50,000	\$0	25.00%	\$0	
	SF	\$65	\$0	30.00%	\$0	
PECTION PIT RKING LOTS	SF SPACES	\$90 \$3,000	\$0 \$0	30.00% 25.00%	\$0 \$0	
KING STRUCTURES	SPACES	\$20,000	\$Ŭ	25.00%	\$0	
S LANE AND UNLOADING	SF	\$25	\$0	25.00%	\$0	
RKING LOT LIGHTING	SPACES	\$200	\$0	30.00%	\$0	
EVATORS CALATOR	EACH EACH	\$450,000 \$300,000	\$0 \$0	25.00% 25.00%	\$0 \$0	
RIGHT OF WAY						\$0
OW LAND ONLY	SF	\$4	\$0	25.00%	\$0	
OW AGRICULTURAL	SF	\$5	\$0	25.00%	\$0	
DW ORCHARDS	SF	\$6	\$0	25.00%	\$0	
W PAVED AREAS	SF	\$8 ¢10	\$0 \$0	25.00%	\$0 \$0	
W RESIDENTIAL AREA W LIGHT INDUSTRIAL AREA	SF SF	\$10 \$14	\$0 \$0	25.00% 25.00%	\$0 \$0	
DW HEAVY INDUSTRIAL AREA	SF	\$16	\$0 \$0	25.00%	\$0 \$0	
JSINESS RELOCATIONS (Value of business, relocation, goodwill, gal, appraisal, etc.)	VALUE	\$1	\$0	0.00%	\$0	
						\$0
	LF	¢10.000	\$0	30.00%	\$0	ψυ
JNNELING CONSTRUCTION NEW SINGLE BORE (DIA) JNNELING CONSTRUCTION NEW TWIN BORE (DIA)	LF	\$12,000	\$0 \$0	30.00%	\$0 \$0	
NGLE BORE RESTORE (DIA)	LF	\$12,000	\$0	30.00%	\$0	
VIN BORE RESTORE (DIA)	LF		\$0	30.00%	\$0	
GENERAL SUPPORT ITEMS						\$0
NT INTERFACE	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS			• -			\$0
	EACH	\$8,000,000	\$0	0.00%	\$0	ŞU
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						¢40.700.000
TOTAL CONSTRUCTION COST						\$13,799,800

\$15,165,980

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
SE-T9	CURVE CORRECTION NORTH OF ELK GROVE STATION						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$71,930
50 50	CLEAR & GRUB LIGHT 2 CLEAR & GRUB HEAVY DEMOLITION EARTHWORK COMMON EARTHWORK (EXCAVATION ROCK) 10 EMBANKMENT 10 BORROW REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL) SOIL NAIL WALLS MSE WALL ROADWAY SOUND WALL BOX CULVERT BOX CULVERT DRAINAGE (DIA-INCH-FOOT) IMPORTED BORROW ROADWAY ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY CONCRETE PAVEMENT GUARD RAIL ROADWAY STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL STREET LIGHTING TRAFFIC CONTROL MINOR CONCRETE K RAIL TEMPORARY CONCRETE BARRIER STRIPPING PERMANENT FENCING VEHICULAR FENCE GATES 10 SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY LANDSCAPING PERMANENT	AC AC FY BCY FF FF FF FF FF FF FY SY FF FF FF FF FY SY FF FF FF FF FY SY FF FF FF FF FF FY SY FACACH SY FF	\$2,500 \$5,000 \$8 \$25 \$400 \$100 \$100 \$400 \$100 \$100 \$100 \$1,0000\$1,000\$1,0000\$1,0000\$1,000\$1,0000\$1,0000\$1,0	\$0 \$1,000 \$0 \$5,000 \$12,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 40.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 20.00% 30.00% 30.00%	\$0 \$1,300 \$0 \$0 \$6,500 \$16,250 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$71,930
	UTILITY RELOCATIONS DEVELOP PERMANENT WATER SUPPLY	LF LS	\$30 \$100,000	\$0 \$0	30.00%	\$0 \$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$135,600
113	REMOVE EXISTING TRACK REMOVE EXISTING TURNOUTS 30 SHIFT EXISTING TRACK UPGRADE EXISTING TRACK TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC) TRACK PANELS CROSSOVER No.15 CROSSOVER No.20 TURNOUT (#7) TURNOUT (#7) TURNOUT (#8) TURNOUT (#10) TURNOUT (#10) TURNOUT (#14) TURNOUT (#15) TURNOUT (#20) TURNOUT (#20) TURNOUT (#24) DIAMOND CROSSING DERAIL BUMPING POST UPGRADE MAINTRACK TO CLASS 6	TF EACH TF TF TF EACH EACH EACH EACH EACH EACH EACH EACH	\$40 \$25,000 \$100 \$500 \$450 \$750 \$800,000 \$200,000 \$220,000 \$220,000 \$220,000 \$220,000 \$225,000 \$355,000 \$450,000 \$450,000 \$450,000 \$100,000 \$100,000 \$100,000	\$0 \$0 \$113,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	10.00% 20.00% 25.00% 25.00% 20.00% 30.00% 20.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00%	\$0 \$135,600 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
	SIGNAL WORK						\$0
	PEDESTRIAN GATES & SIGNALS CANTILEVER SIGNAL DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH EACH EACH	\$100,000 \$200,000 \$250,000 \$20,000	\$0 \$0 \$0 \$0	20.00% 20.00%	\$0	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6 BRIDGE STRUCTURES	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF CY	\$200 \$400 \$500 \$400 \$500 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 50.00\%\\ 30.00\%\\ 30.00\%\\ 50.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 25.00\%\\ 25.00\%\end{array}$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0
STATIONS TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION PLATFORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 20.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0
RIGHT OF WAY ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0
TUNNEL CONSTRUCTION TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	\$0
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

\$207,530

	SACRAMENTO SUBDIVISION				DATE		
			Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-T10	POLLOCK SIDING UPGRADE						
Estimate	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY .		SUB TOTAL
Quantity	DESCRIPTION	UNITS	001 00313	BASE COST	CONTINGENCI		WORK ELEMENT
	CIVIL WORKS						\$28,800
	CLEAR & GRUB LIGHT CLEAR & GRUB HEAVY	AC AC	\$2,500 \$5,000	\$0 \$0		\$0 \$0	
	DEMOLITION	SF	\$8	\$0	30.00%	\$0	
	EARTHWORK COMMON EARTHWORK (EXCAVATION ROCK)	BCY BCY	\$25 \$50	\$0 \$0		\$0 \$0	
	EMBANKMENT	FCY	\$10	\$0 \$0		\$0 \$0	
		FCY	\$25	\$0 \$0		\$0 \$0	
	REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580	LF SF	\$400 \$100	\$0 \$0		\$0 \$0	
	STRUCTURE EXCAVATION	CY	\$40	\$0	25.00%	\$0	
	RETAINING WALLS (1 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL)	SF SF	\$35 \$60	\$0 \$0		\$0 \$0	
	SOIL NAIL WALLS	SF	\$70	\$0 \$0		\$0	
	MSE WALL ROADWAY SOUND WALL	SF	\$55	\$0 \$0		\$0 ¢0	
	BOX CULVERT	LF CY	\$90 \$1,000	\$0 \$0		\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0		\$0	
	DRAINAGE (dia-inch-foot) Drainage (dia-inch-foot)	LF LF	\$12 \$12	\$0 \$0		\$0 \$0	
	IMPORTED BORROW ROADWAY	CY	\$25	\$0 \$0		\$0	
	ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES)	SF	\$25	\$0 \$0		\$0 \$0	
	AGGREGATE BASE ROADWAY ASPHALT CONCRETE ROADWAY	CY TONS	\$45 \$65	\$0 \$0		\$0 \$0	
	CONCRETE PAVEMENT	CY	\$210	\$0	20.00%	\$0	
	GUARD RAIL ROADWAY ASPHALT DIKES ROADWAY	LF LF	\$30 \$4	\$0 \$0		\$0 \$0	
	STREET RESTORATIONS	SF	\$15	\$0	40.00%	\$0	
	SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL	EACH EACH	\$200,000 \$100,000	\$0 \$0		\$0 \$0	
	STREET LIGHTING	EACH	\$100,000	\$0 \$0		\$0 \$0	
	TRAFFIC CONTROL	DAYS	\$1,200	\$0		\$0	
	MINOR CONCRETE K RAIL TEMPORARY	CY LF	\$400 \$30	\$0 \$0		\$0 \$0	
	CONCRETE BARRIER	LF	\$50	\$0	30.00%	\$0	
	STRIPPING PERMANENT FENCING	LF LF	\$1 \$35	\$0 \$0		\$0 \$0	
	VEHICULAR FENCE GATES	EACH	\$2,000	\$0 \$0		\$0 \$0	
1600	0 SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY	LF SF	\$15	\$24,000		\$28,800	
	LANDSCAPING PERMANENT	SY	\$7 \$15	\$0 \$0		\$0 \$0	
	UTILITY RELOCATIONS	LF	\$30	\$0		\$0	
	DEVELOP PERMANENT WATER SUPPLY YARD LIGHTING	LS EACH	\$100,000 \$2,500	\$0 \$0		\$0 \$0	
	TRACK WORK						\$2,850,800
60(0 REMOVE EXISTING TRACK	TF	\$40	\$24,000	20.00%	\$28.800	
	2 REMOVE EXISTING TURNOUTS	EACH	\$25,000	\$50,000	10.00%	\$55,000	
4200	SHIFT EXISTING TRACK 0 UPGRADE EXISTING TRACK	TF TF	\$100 \$300	\$0 \$1,260,000		\$0 \$1,512,000	
	0 TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST)	TF	\$500	\$300,000		\$375,000	
	TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF	\$450	\$0		\$0	
	GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC) TRACK PANELS	TF SF	\$750 \$75	\$0 \$0		\$0 \$0	
	CROSSOVER No.15	EACH	\$800,000	\$0	20.00%	\$0	
	CROSSOVER No.20 TURNOUT (#7)	EACH EACH	\$1,000,000 \$200,000	\$0 \$0		\$0 \$0	
	TURNOUT (#8)	EACH	\$210,000	\$0 \$0		\$0	
	TURNOUT (#9)	EACH	\$220,000	\$0 \$0		\$0 \$0	
	TURNOUT (#10) TURNOUT (#14)	EACH EACH	\$250,000 \$325,000	\$0 \$0		\$0 \$0	
	TURNOUT (#15)	EACH	\$350,000	\$0		\$0	
2	2 TURNOUT (#20) TURNOUT (#24)	EACH EACH	\$400,000 \$450,000	800,000\$\$ \$0		\$880,000 \$0	
	DIAMOND CROSSING	EACH	\$500,000	\$0	10.00%	\$0	
	DERAIL BUMPING POST	EACH EACH	\$100,000 \$25,000	\$0 \$0		\$0 \$0	
	UPGRADE MAINTRACK TO CLASS 6	TF	\$25,000 \$100	\$0 \$0		\$0 \$0	
	SIGNAL WORK						\$780,000
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
	CANTILEVER SIGNAL	EACH	\$200,000	\$0	20.00%	\$0	
	DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH	\$250,000 \$20,000	\$0 \$0		\$0 \$0	
			+,-,0	ψu		÷-	-

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK 2 NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$650,000 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$780,000 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF CY	\$200 \$400 \$500 \$400 \$500 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION PLATFORM STRUCTURES NEW STATION PLATFORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$200 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 25.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF SF VALUE	\$4 \$5 \$8 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	
TOTAL CONSTRUCTION COST						\$3,659,600
						<i>çc</i> , <i>000</i> ,000

Escalation from 2017 to 2020 (9.9%)

\$4,021,900

	SACRAMENTO SUBDIVISION		5.4	5	DATE		
			Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-T11	SOUTH SACRAMENTO SIDING UPGRADE						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$21,600
	CLEAR & GRUB LIGHT	AC	\$2,500	\$0	40.00%	\$0	
	CLEAR & GRUB HEAVY DEMOLITION	AC SF	\$5,000 \$8	\$0 \$0	30.00% 30.00%	\$0 \$0	
	EARTHWORK COMMON	BCY	\$25	\$0 \$0	30.00%	\$0	
	EARTHWORK (EXCAVATION ROCK)	BCY FCY	\$50 \$10	\$0 \$0	30.00% 30.00%	\$0 \$0	
	EMBANKMENT BORROW	FCY	\$25	\$0 \$0	30.00%	\$0 \$0	
	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$0 \$0	30.00%	\$0	
	RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION	SF CY	\$100 \$40	\$0 \$0	50.00% 25.00%	\$0 \$0	
	RETAINING WALLS (1 TO 10 FEET TALL)	SF	\$35	\$0	20.00%	\$0	
	RETAINING WALLS (10 TO 20 FEET TALL) SOIL NAIL WALLS	SF SF	\$60 \$70	\$0 \$0	30.00% 30.00%	\$0 \$0	
	MSE WALL ROADWAY	SF	\$55	\$0	25.00%	\$0	
	SOUND WALL BOX CULVERT	LF CY	\$90 \$1,000	\$0 \$0	50.00% 30.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0 \$0	30.00%	\$0 \$0	
		LF	\$12	\$0 \$0	40.00%	\$0 ©0	
	DRAINAGE (DIA-INCH-FOOT) IMPORTED BORROW ROADWAY	LF CY	\$12 \$25	\$0 \$0	40.00% 25.00%	\$0 \$0	
	ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES)	SF	\$25	\$0	25.00%	\$0	
	AGGREGATE BASE ROADWAY ASPHALT CONCRETE ROADWAY	CY TONS	\$45 \$65	\$0 \$0	25.00% 25.00%	\$0 \$0	
	CONCRETE PAVEMENT	CY	\$210	\$0	20.00%	\$0	
	GUARD RAIL ROADWAY ASPHALT DIKES ROADWAY	LF LF	\$30 \$4	\$0 \$0	25.00% 25.00%	\$0 \$0	
	STREET RESTORATIONS	SF	\$4 \$15	\$0 \$0	40.00%	\$0 \$0	
	SIGNALLED STREET TRAFFIC CONTROL	EACH	\$200,000	\$0 ©0	20.00%	\$0 ©0	
	MODIFIED TRAFFIC SIGNAL STREET LIGHTING	EACH EACH	\$100,000 \$4,500	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TRAFFIC CONTROL	DAYS	\$1,200	\$0	50.00%	\$0	
	MINOR CONCRETE K RAIL TEMPORARY	CY LF	\$400 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	CONCRETE BARRIER	LF	\$50	\$0	30.00%	\$0	
	STRIPPING PERMANENT FENCING	LF LF	\$1 \$35	\$0 \$0	20.00% 20.00%	\$0 \$0	
	VEHICULAR FENCE GATES	EACH	\$2,000	\$0 \$0	20.00%	\$0	
1200) SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY	LF SF	\$15 \$7	\$18,000 \$0	20.00% 30.00%	\$21,600 \$0	
	LANDSCAPING PERMANENT	SY	\$15	\$0 \$0	30.00%	\$0 \$0	
		LF	\$30	\$0 ©0	30.00%	\$0	
	DEVELOP PERMANENT WATER SUPPLY YARD LIGHTING	LS EACH	\$100,000 \$2,500	\$0 \$0	30.00% 20.00%	\$0 \$0	
	TRACK WORK						\$8,511,200
) REMOVE EXISTING TRACK	TF	\$40	\$16,000	20.00%	\$19,200	
2	2 REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK	EACH TF	\$25,000 \$100	\$50,000 \$0	10.00% 20.00%	\$55,000 \$0	
19950) UPGRADE EXISTING TRACK	TF	\$300	\$5,985,000	20.00%	\$7,182,000	
600	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST)		\$500	\$300,000	25.00%	\$375,000	
	TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF TF	\$450 \$750	\$0 \$0	25.00% 20.00%	\$0 \$0	
	TRACK PANELS	SF	\$75	\$0	30.00%	\$0	
	CROSSOVER No.15 CROSSOVER No.20	EACH EACH	\$800,000 \$1,000,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TURNOUT (#7)	EACH	\$200,000	\$0	10.00%	\$0	
	TURNOUT (#8) TURNOUT (#9)	EACH EACH	\$210,000 \$220,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#10)	EACH	\$250,000	\$0	10.00%	\$0	
	TURNOUT (#14)	EACH EACH	\$325,000 \$350,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#15) 2 TURNOUT (#20)	EACH	\$400,000	\$0,000	10.00%	\$880,000	
		EACH	\$450,000	\$0 \$0	10.00%	\$0 ©0	
	DIAMOND CROSSING DERAIL	EACH EACH	\$500,000 \$100,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0	20.00% 30.00%	\$0 \$0	
	SIGNAL WORK					·	\$780,000
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
	CANTILEVER SIGNAL	EACH	\$200,000	\$0	20.00%	\$0	
	DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH	\$250,000 \$20,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
			φ20,000	\$ U	20.00%	φυ	•

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK 2 NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$650,000 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$780,000 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF SF CY	\$200 \$400 \$500 \$500 \$400 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
PARKING STRUCTURES BUS LANE AND UNLOADING	EACH EACH SF SF EACH SF SPACES SPACES SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 25.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$8 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	
TOTAL CONSTRUCTION COST						\$9,312,800

\$10,234,767

	SACRAMENTO SUBDIVISION			5	DATE		
			Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-T12	NEW CROSSOVER TRACK						
Estimate							SUB TOTAL
Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	WORK ELEMENT
	CIVIL WORKS						\$21,600
	CLEAR & GRUB LIGHT	AC	\$2,500	\$0	40.00%	\$0	
	CLEAR & GRUB HEAVY	AC	\$5,000	\$0 ©	30.00%	\$0 ©0	
	DEMOLITION EARTHWORK COMMON	SF BCY	\$8 \$25	\$0 \$0	30.00% 30.00%	\$0 \$0	
	EARTHWORK (EXCAVATION ROCK)	BCY	\$50	\$0	30.00%	\$0	
	EMBANKMENT BORROW	FCY FCY	\$10 \$25	\$0 \$0	30.00% 30.00%	\$0 \$0	
	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$0	30.00%	\$0	
	RECONSTRUCT FREEWAY LANE 580	SF	\$100	\$0	50.00%	\$0 \$0	
	STRUCTURE EXCAVATION RETAINING WALLS (1 TO 10 FEET TALL)	CY SF	\$40 \$35	\$0 \$0	25.00% 20.00%	\$0 \$0	
	RETAINING WALLS (10 TO 20 FEET TALL)	SF	\$60	\$0	30.00%	\$0	
	SOIL NAIL WALLS MSE WALL ROADWAY	SF SF	\$70 \$55	\$0 \$0	30.00% 25.00%	\$0 \$0	
	SOUND WALL	LF	\$90	\$0 \$0	50.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0	30.00%	\$0	
	Box culvert Drainage (dia-inch-foot)	CY LF	\$1,000 \$12	\$0 \$0	30.00% 40.00%	\$0 \$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$0	40.00%	\$0	
	IMPORTED BORROW ROADWAY ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES)	CY SF	\$25 \$25	\$0 \$0	25.00% 25.00%	\$0 \$0	
	AGGREGATE BASE ROADWAY	CY	\$45	\$0 \$0	25.00%	\$0 \$0	
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0	25.00%	\$0	
	CONCRETE PAVEMENT GUARD RAIL ROADWAY	CY LF	\$210 \$30	\$0 \$0	20.00% 25.00%	\$0 \$0	
	ASPHALT DIKES ROADWAY	LF	\$4	\$0	25.00%	\$0	
	STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL	SF EACH	\$15 \$200,000	\$0 \$0	40.00% 20.00%	\$0 \$0	
	MODIFIED TRAFFIC SIGNAL	EACH	\$100,000	\$0 \$0	20.00%	\$0 \$0	
	STREET LIGHTING	EACH	\$4,500	\$0 ©0		\$0	
	TRAFFIC CONTROL MINOR CONCRETE	DAYS CY	\$1,200 \$400	\$0 \$0	50.00% 30.00%	\$0 \$0	
	K RAIL TEMPORARY	LF	\$30	\$0	30.00%	\$0	
	CONCRETE BARRIER STRIPPING	LF LF	\$50 \$1	\$0 \$0	30.00% 20.00%	\$0 \$0	
	PERMANENT FENCING	LF	\$35	\$0	20.00%	\$0	
1200	VEHICULAR FENCE GATES) SILT FENCE and ORANGE FENCE	EACH LF	\$2,000 \$15	\$0 \$18,000	20.00% 20.00%	\$0 \$21,600	
1200	EROSION CONTROL TEMPORARY	SF	\$7	\$0	30.00%	\$0	
	LANDSCAPING PERMANENT UTILITY RELOCATIONS	SY LF	\$15 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0 \$0	30.00%	\$0 \$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$1,219,200
400		TF EACH	\$40	\$16,000	20.00%	\$19,200	
	REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK	TF	\$25,000 \$100	\$0 \$0		\$0 \$0	
	UPGRADE EXISTING TRACK	TF	\$300	\$0		\$0	
	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF TF	\$500 \$450	\$0 \$0	25.00% 25.00%	\$0 \$0	
	GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF	\$750	\$0	20.00%	\$0	
	TRACK PANELS CROSSOVER No.15	SF EACH	75\$ 8800,000\$	\$0 \$0	30.00% 20.00%	\$0 \$0	
	1 CROSSOVER No.20	EACH	\$1,000,000	\$1,000,000	20.00%	\$1,200,000	
	TURNOUT (#7)	EACH	\$200,000	\$0	10.00%	\$0	
	TURNOUT (#8) TURNOUT (#9)	EACH EACH	\$210,000 \$220,000	\$0 \$0		\$0 \$0	
	TURNOUT (#10)	EACH	\$250,000	\$0	10.00%	\$0	
	TURNOUT (#14) TURNOUT (#15)	EACH EACH	\$325,000 \$350,000	\$0 \$0		\$0 \$0	
	TURNOUT (#20)	EACH	\$400,000	\$0	10.00%	\$0	
	TURNOUT (#24) DIAMOND CROSSING	EACH EACH	\$450,000 \$500,000	\$0 \$0		\$0 \$0	
	DERAIL	EACH	\$100,000	\$0 \$0		\$0 \$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0		\$0 \$0	
	SIGNAL WORK		÷	ψŪ		Ψ.	\$924,000
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
	CANTILEVER SIGNAL	EACH	\$200,000	\$0 \$0	20.00%	\$0 \$0	
	1 DOG HOUSE (Signal House) 1 NEW ELECTRIC SERVICE	EACH	\$250,000	\$250,000	20.00%	\$300,000	
	I NEW LEGTRIC SERVICE	EACH	\$20,000	\$20,000	20.00%	\$24,000	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL 1 NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$500,000 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$600,000 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE WIDEN CULVERT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF CY	\$200 \$400 \$500 \$400 \$500 \$550 \$400 \$3,000 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 50.00\%\\ 30.00\%\\ 30.00\%\\ 50.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 25.00\%\\ 25.00\%\\ \end{array}$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 25.00\%\\ 30.00\%\\ 40.00\%\\ 30.00\%\\ 25.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\end{array}$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION PLATFORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	$\begin{array}{c} 20.00\% \\ 50.00\% \\ 20.00\% \\ 20.00\% \\ 25.00\% \\ 30.00\% \\ 30.00\% \\ 25.00\% \\ 25.00\% \\ 25.00\% \\ 30.00\% \\ 25.00\% \\ 25.00\% \\ 25.00\% \end{array}$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF SF VALUE	\$4 \$5 \$8 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	
TOTAL CONSTRUCTION COST						\$2,164,800

\$2,379,115

	SACRAMENTO SUBDIVISION		Rev1	Rev 2	DATE Rev 3	Rev 4	
			3/2/2020				
SE-T13	DEL PASO SIDING UPGRADE/EXTENSION						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$7,849,500
ç	OCLEAR & GRUB LIGHT	AC	\$2,500	\$22,500	40.00%	\$31,500	
	CLEAR & GRUB HEAVY DEMOLITION	AC SF	\$5,000 \$8	\$0 \$0	30.00% 30.00%	\$0 \$0	
50000) EARTHWORK COMMON	BCY	\$25	\$1,250,000	30.00%	\$1,625,000	
	EARTHWORK (EXCAVATION ROCK)	BCY	\$50	\$0	30.00%	\$0	
100000	EMBANKMENT) BORROW	FCY FCY	\$10 \$25	\$0 \$2,500,000	30.00% 30.00%	\$0 \$3,250,000	
	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$0	30.00%	\$0	
	RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION	SF CY	\$100 \$40	\$0 \$0	50.00% 25.00%	\$0 \$0	
60000) RETAINING WALLS (1 TO 10 FEET TALL)	SF	\$40 \$35	\$2,100,000	20.00%	\$2,520,000	
	RETAINING WALLS (10 TO 20 FEET TALL)	SF	\$60	\$0	30.00%	\$0	
	SOIL NAIL WALLS MSE WALL ROADWAY	SF SF	\$70 \$55	\$0 \$0	30.00% 25.00%	\$0 \$0	
	SOUND WALL	LF	\$90	\$0 \$0	50.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0	30.00%	\$0	
	BOX CULVERT DRAINAGE (DIA-INCH-FOOT)	CY LF	\$1,000 \$12	\$0 \$0	30.00% 40.00%	\$0 \$0	
	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$0	40.00%	\$0	
		CY	\$25	\$0	25.00%	\$0	
	ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$0 \$0	25.00% 25.00%	\$0 \$0	
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0 \$0	25.00%	\$0	
		CY	\$210	\$0	20.00%	\$0	
	GUARD RAIL ROADWAY ASPHALT DIKES ROADWAY	LF LF	\$30 \$4	\$0 \$0	25.00% 25.00%	\$0 \$0	
	STREET RESTORATIONS	SF	\$15	\$0	40.00%	\$0	
	SIGNALLED STREET TRAFFIC CONTROL	EACH	\$200,000	\$0	20.00%	\$0	
	MODIFIED TRAFFIC SIGNAL STREET LIGHTING	EACH EACH	\$100,000 \$4,500	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TRAFFIC CONTROL	DAYS	\$1,200	\$0	50.00%	\$0	
	MINOR CONCRETE K RAIL TEMPORARY	CY LF	\$400 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	CONCRETE BARRIER	LF	\$50 \$50	\$0 \$0	30.00%	\$0 \$0	
	STRIPPING	LF	\$1	\$0	20.00%	\$0	
	PERMANENT FENCING VEHICULAR FENCE GATES	LF EACH	\$35 \$2,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
23500) SILT FENCE and ORANGE FENCE	LACIT	\$15	\$352,500	20.00%	\$423,000	
	EROSION CONTROL TEMPORARY	SF	\$7	\$0	30.00%	\$0	
	LANDSCAPING PERMANENT UTILITY RELOCATIONS	SY LF	\$15 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0	30.00%	\$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$14,240,000
) REMOVE EXISTING TRACK	TF	\$40	\$40,000	20.00%	\$48,000	
2	2 REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK	EACH TF	\$25,000 \$100	\$50,000 \$0	10.00% 20.00%	\$55,000 \$0	
) UPGRADE EXISTING TRACK	TF	\$300	\$1,830,000	20.00%	\$2,196,000	
13800) TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF TF	\$500 \$450	\$6,900,000	25.00%	\$8,625,000	
40) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF	\$450 \$750	\$0 \$30,000	25.00% 20.00%	\$0 \$36,000	
	TRACK PANELS	SF	\$75	\$0	30.00%	\$0	
-	CROSSOVER No.15 2 CROSSOVER No.20	EACH EACH	\$800,000 \$1,000,000	\$0 \$2,000,000	20.00% 20.00%	\$0 \$2,400,000	
2	TURNOUT (#7)	EACH	\$200,000	\$2,000,000 \$0	10.00%	\$2,400,000 \$0	
	TURNOUT (#8)	EACH	\$210,000	\$0	10.00%	\$0	
	TURNOUT (#9) TURNOUT (#10)	EACH EACH	\$220,000 \$250,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#14)	EACH	\$325,000	\$0	10.00%	\$0	
	TURNOUT (#15)	EACH	\$350,000	\$0	10.00%	\$0	
4	2 TURNOUT (#20) TURNOUT (#24)	EACH EACH	\$400,000 \$450,000	\$800,000 \$0	10.00% 10.00%	\$880,000 \$0	
	DIAMOND CROSSING	EACH	\$500,000	\$0	10.00%	\$0	
	DERAIL BUMPING POST	EACH EACH	\$100,000 \$25,000	\$0 \$0	10.00% 20.00%	\$0 \$0	
	UPGRADE MAINTRACK TO CLASS 6	TF	\$25,000 \$100	\$0 \$0	30.00%	\$0 \$0	
	SIGNAL WORK						\$3,432,000
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
	CANTILEVER SIGNAL	EACH	\$200,000	\$0	20.00%	\$0	
	3 DOG HOUSE (Signal House) 3 NEW ELECTRIC SERVICE	EACH EACH	\$250,000 \$20,000	\$750,000 \$60,000	20.00% 20.00%	\$900,000 \$72,000	
			<i>4</i> 20,000	\$20,000	20.0070	÷. 2,000	•

NEW INTERNALUATE SIGNALS SINGLE TRACK EACH S10,000 S0 20,00% S0 2 NEW INTERNALS SINGLE TRACK EACH S20,000 S400,000 20,00% S10,000 S20,00%	\$200,000 \$50,000 \$20,00% \$70,000 \$500,000 \$1,00,000 \$20,00% \$12,00,000 \$200,000 \$400,000 \$20,00% \$400,000 \$200,000 \$50 \$20,00% \$10,000 \$200,000 \$50 \$0,00% \$10,000 \$200,000 \$50 \$0,00% \$10,000 \$200,000 \$50 \$0,00% \$10,040,000 \$400 \$50 \$50,00% \$50 \$500 \$50,000 \$50,00% \$50 \$500 \$50,000 \$50,00% \$50 \$500,000 \$50 \$50,00% \$50 \$52,000,000 \$50 \$50,00% \$50 \$52,000,000 \$50 \$50,00% \$50 \$52,000,000 \$50 \$50,00% \$50 \$52,000,000 \$50 \$20,00% \$50 \$52,000,000 \$50 \$20,00% \$50 \$52,000,000 \$50 \$20,00% \$50 \$52,000,000 \$50 \$20,00%							
2 MeV CR3SEVER EACH 823.000 895.000 20.005 \$120.000 MEW CR3SEVER GIVALLING EACH 820.000 \$1.000.000 20.005 \$1.200.000 \$000 MEW CR3SEVER GIVALLING EACH \$20.000 \$1.000.000 20.005 \$1.200.000 \$000 MEW CR3SEVER GIVAL S0.000 \$1.0000.000 \$1.0000.000	\$325.000 \$560.000 20.00% \$780.000 \$260.000 \$0.000 20.00% \$1.00.000 \$200.000 \$0.000 20.00% \$1.00.000 \$200.000 \$0.000 20.00% \$1.00.000 \$200.000 \$0.000 20.00% \$1.00.000 \$200.000 \$0.000% \$0.00% \$0.00% \$400 \$0.000% \$0.00% \$0.00% \$400 \$0.000% \$0.00% \$0.00% \$400 \$0.000% \$0.00% \$0.00% \$400 \$0.000% \$0.00% \$0.00% \$500 \$0.000% \$0.00% \$0.00% \$500.000 \$0.000% \$0.000% \$0.00% \$200.000 \$0.000% \$0.000% \$0.000% \$200.000 \$0.000% \$0.000% \$0.000% \$200.000 \$0.000% \$0.000% \$0.000% \$200.000 \$0.000% \$0.000% \$0.000% \$0.000% \$1.50.000 \$0.000% \$0.000% \$0.000% \$0.000%<	INTERMEDIATE SIGNALS SINGLE TRACK	EACH	\$150,000	\$0	20.00%	\$0	
2. NEW CROSSOVER BIGNALLING EACH \$51,00,000 \$20,004 \$12,00,000 NEW CROSSING SIGNALS EACH \$250,000 \$30,004 \$10,00,000 NEW CROSSING SIGNALS EACH \$200,004 \$100,000	\$500.000 \$1.000.000 20.00% \$1.200.000 \$400.000 \$400.000 20.00% \$480.000 \$200.000 \$0 30.00% \$480.000 \$200 \$0 \$0.00% \$50 \$400 \$0 30.00% \$1,015.000 \$500 \$0.00% \$1,000.000 \$1,000.000 \$400 \$0 30.00% \$1,000.000 \$400 \$0 30.00% \$0 \$400 \$0 30.00% \$0 \$400 \$0 30.00% \$0 \$3550 \$0 30.00% \$0 \$3400 \$0 30.00% \$0 \$3500 \$0 25.00% \$0 \$12 \$0 30.00% \$0 \$10 \$22.000 \$0 25.00% \$0 \$11 \$0 20.00% \$0 \$0 \$25.000 \$0 20.00% \$0 \$0 \$25.000 \$0 20.00% \$0 \$0	INTERMEDIATE SIGNALS DOUBLE TRACK	EACH	\$300,000	\$0	20.00%	\$0	
NEW GRADE GROSSING SIGNALS EACH \$20,000 \$30 \$20,005 \$50 INCOME CONSTRUCTURES \$1,0 BRUGE REMOVAL RUE ON SHOULD STRUCTURES \$51 \$20,005 \$50,005 \$50 BRUGE STRUCTURES \$51 \$50,005 \$50,005 \$50 \$50,005 \$50 BRUGE REMOVAL RULEOD SHOL CONCRETE \$57 \$400,000 \$50,0005 \$50 \$50 AND ON SHOL SHOULD SHO	\$250,000 \$400,000 \$00,000 \$200,000 \$50,000 \$200,000 \$400,000 \$00,000 \$00,000 \$00,000 \$00,000 \$200,000 \$00,000 \$00,000 \$00,000 \$00,000 \$00,000 \$400 \$0 \$0,000 \$00,000 \$00,000 \$00,000 \$500 \$0 \$0,000 \$00,000 \$00,000 \$00,000 \$500,000 \$0 \$0,000 \$00,000 \$00,000 \$00,000 \$500,000 \$0 \$0,000 \$00,000 \$00,000 \$00,000 \$500,000 \$0 \$0,000 \$00,000 \$00,000 \$00,000 \$500,000 \$0 \$0,000 \$00,000 \$00,000 \$00,000 \$500,000 \$0 \$00,000 \$00,000% \$00,000% \$00,000% \$500,000 \$0 \$00,000% \$00,00% \$00,00% \$00,00% \$500,000 \$0 \$00,00% \$00,00% \$00,00% \$00,00% \$00,00% \$00,00% \$00,00% \$00,	TURNOUT SIGNAL	EACH	\$325,000	\$650,000	20.00%	\$780,000	
LEW CROSSING CATES & SIGNALS EACH \$100,000 \$10,000 \$20,000 \$100 BRIDGE STRUCTURES MILE \$200,000 \$10,000,000 \$10,000,000	\$400,000 \$400,000 \$20,00% \$460,000 \$200,000 \$0 \$0,00% \$10 \$200 \$0 \$0,00% \$0 \$200 \$0 \$0,00% \$0 \$200 \$0 \$0,00% \$0 \$500 \$20,00% \$0 \$0 \$500 \$0,00% \$0 \$0 \$500 \$0,000 \$0,00% \$0 \$500 \$0,00% \$0 \$0 \$500 \$0,000 \$0 \$20,00% \$0 \$100 \$0 \$20,00% \$0 \$0 \$20,000 \$0 \$20,00% \$0 \$0 \$100 \$0 \$0,00% \$0 \$0 \$100 \$0 \$0,00% \$0 \$0 \$100,000 \$0 \$0,00% \$0 \$0 \$100,000 \$0 \$0,00% \$0 \$0 \$100,000 \$0 \$0,00% \$0 \$0 \$100,000 \$0<	CROSSOVER SIGNALLING		\$500,000	\$1,000,000		\$1,200,000	
PEGRADE BIONALS TO CLASS 6 MILE \$200,000 50 30,00% 50 RINGE ESTRUCTURES \$1,0 RINGE REMOVAL \$5 \$50,00 \$50 \$50,00% \$50 RINGE REMOVAL \$5 \$50,00 \$50 \$50,00% \$50 RINGE REMOVAL \$5 \$50,00 \$50,000 \$30,00% \$50 RINGE REMOVAL \$5 \$500 \$50,000 \$30,00% \$50 RINGE REMOVAL \$5 \$500 \$50,000 \$30,00% \$50 RINGE REMOVE STEEL \$5 \$500,000 \$50,00% \$50 RINGE REMOVE STEEL \$5 \$500,000 \$50,00% \$50 RINGE REMOVE STEEL \$55,000 \$50,00% \$50 RINGE REMOVE STEEL \$50,000 \$50,00% \$50 RINGE REMOVE STEEL \$52,000,000 \$50,00% \$50 RINGE REAL \$52,000,000 \$50,00% \$50	\$200,000 \$0 30,00% \$0 \$200 \$0 50,00% \$0 \$400 \$0 50,00% \$0 \$500 \$60 30,00% \$1,915,000 \$500 \$00 30,00% \$1,915,000 \$500 \$00 30,00% \$0 \$500 \$0 30,00% \$0 \$500 \$0 30,00% \$0 \$500 \$00 30,00% \$0 \$500,000 \$0 20,00% \$0 \$52,000,000 \$0 20,00% \$0 \$12 \$0 30,00% \$0 \$50,000 \$0 20,00% \$0 \$52,000,000 \$0 20,00% \$0 \$52,000 \$0 20,00% \$0 \$200,000 \$0 20,00% \$0 \$200,000 \$0 20,00% \$0 \$20,00 \$0 20,00% \$0 \$30,00 \$0 20,00% \$0							
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No. No. No. No. No. ALROAD SHORT BRIDGE CONCRETE SF \$400 \$9 \$30.00% \$80 MIROAD SHORT BRIDGE CONCRETE SF \$500 \$900.000 \$30.00% \$80 MIROAD AREAL CONCRETE SF \$500 \$30.00% \$80 \$30.00% \$80 MIROAD AREAL CONCRETE SF \$500 \$30.00% \$80 \$30.00% \$80 MIREMAX BRIDGE STEEL SF \$500 \$30.00% \$80 \$30.00% \$80 MIREMAX BRIDGE STEEL SF \$500 \$30.00% \$80 \$30.00% \$80 MIREMAX STRUCTURE CY \$750.000 \$30.00% \$80 \$30.00% \$80 MIREMAX STRUCTURE EACH \$52.000.000 \$30.00% \$80 \$30.00% \$80 NUMELERANS STRUCTURE EACH \$53.000.000 \$30.00% \$30 \$30.00% \$80 NUMITER INFANCIAL ELTO TRACKS LF \$80.000 \$30.00% \$50 \$30.00% \$50	\$200 \$0 \$0,00% \$0 \$400 \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$500,000 \$0 \$20,0% \$0 \$12 \$0 \$0,00% \$0 \$51,000 \$0 \$0,00% \$0 \$50,000 \$0 \$0,00% \$0 \$52,000 \$0 \$0,00% \$0 \$50,000 \$0 \$0,00% \$0 \$50,000 \$0 \$20,00% \$0 \$50,000 \$0 \$20,00% \$0 \$50,000 \$0 \$20,00% \$0 \$50,000 \$0 \$20,00% \$0 <	RADE SIGNALS TO CLASS 6	MILE	\$200,000	\$0	30.00%	\$0	
SALERADA SHORT BEIDDE CONCRETE SF \$400 \$0 30.00% \$0 SALERADA SEALAL GUIDEWAY SF \$500 \$80.000 30.00% \$0 SALERADA SEALAL GUIDEWAY SF \$500 \$80.000 30.00% \$0 SALERADA SEALAL GUIDEWAY SF \$500 \$0 30.00% \$0 MISHAY BINDES CENCEL CY \$750 \$0 30.00% \$0 MISHAY BINDES STRUCTURE EA \$10.0000 \$0 25.00% \$0 MINCERATING EA \$50.0000 \$0 30.00% \$0 MINCE STRUCTURE EA \$50.0000 \$0 30.00% \$0 MINCE STRUCTURE EA \$50.0000 \$0 30.00% \$0 MINCE STRUCTURE EA	\$400 \$0 \$0,00% \$0 \$500 \$500 \$0,00% \$0 \$500 \$0,00% \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$0 \$500 \$0 \$0,00% \$0 \$0 \$500 \$0 \$0,00% \$0 \$0 \$500 \$0 \$20,00% \$0 \$0 \$500,000 \$0 \$20,00% \$0 \$0 \$50,000 \$0 \$0,00% \$0 \$0 \$50,000 \$0 \$0,00% \$0 \$0 \$50,000 \$0 \$0,00% \$0 \$0 \$50,000 \$0 \$0,00% \$0 \$0 \$51,000,000 \$0 \$0,00% \$0 \$0 \$50,000 \$0 \$0,00% \$0 \$0 \$50,000 \$0 \$2,00% \$0 \$0 \$50,000 \$0 \$2,00% \$0 \$0 \$50,000 <t< td=""><td>BRIDGE STRUCTURES</td><td></td><td></td><td></td><td></td><td></td><td>\$1,915,000</td></t<>	BRIDGE STRUCTURES						\$1,915,000
ALEROAD SHORT BRIDGE CONCRETE SF \$400 \$0 30.00% \$0 MARCADA SHULL GUIDEWAY SF \$500 \$00.00% \$0 \$00.00% \$0 MARCADA SHULL GUIDEWAY SF \$500 \$00.00% \$0 \$00.00% \$0 MARCADA SHULL GUIDEWAY SF \$500 \$0 \$0.00% \$0 MARCADA SHULL GUIDEWAY SF \$100 \$00 \$0 \$0.00% \$0 MARCADA SHULL GUIDEWAY SF \$100.0000 \$0 \$0.00% \$0 \$0.00% \$0 MARCADA SHULL GUIDEWAY SF \$100.0000 \$0 \$0.00% \$0 \$0.00% \$0 MARCADA SHULL GUIDEWAY	\$400 \$0 \$000% \$0 \$500 \$500 \$000% \$0 \$500 \$0 \$000% \$0 \$500 \$0 \$000% \$0 \$500 \$0 \$000% \$0 \$500 \$0 \$0.00% \$0 \$500 \$50 \$2.00% \$0 \$500 \$0 \$2.00% \$0 \$500,000 \$0 \$2.00% \$0 \$200,000 \$0 \$2.00% \$0 \$1.500,000 \$0 \$0.00% \$0 \$51.00,000 \$0 \$0.00% \$0 \$51.00,000 \$0 \$0.00% \$0 \$51.00,000 \$0 \$0.00% \$0 \$51.00,000 \$0 \$0.00% \$0 \$51.00,000 \$0 \$0.00% \$0 \$50.000 \$0 \$2.00% \$0 \$50.000 \$0 \$2.00% \$0 \$50.000 \$0 \$2.00% \$0 <td>)GE REMOVAL</td> <td>SF</td> <td>\$200</td> <td>\$0</td> <td>50.00%</td> <td>\$0</td> <td></td>)GE REMOVAL	SF	\$200	\$0	50.00%	\$0	
NLROAD BRIDGE STEEL SF Stool 880,0000 30.00% 80.0000 GRWAY BRIDGE OCNORETE SF Stool 80 30.00% 80 GRWAY BRIDGE STEEL SF Stool 80 30.00% 80 EDESTRUATE SF Stool 80 30.00% 80 EDESTRUATE SF Stool 30.00% 80 NDERPASS <structure< td=""> SF Stool 30.00% 80 SMIC ONTROL EACH \$200,000 50 25.00% \$0 SMIC ONTROL CABLING EACH \$200,000 \$0 20.00% \$0 SMIC CONTROL CABLING EACH \$200,000 \$0 30.00% \$0 SMIC CONTROL CABLING EACH \$100,000 \$0 30.00% \$0 SMIC CONTROL CABLING EACH \$100,000 \$0 30.00% \$0 SMIC CONTROL CABLING EACH \$13,000,000 \$0 20.00% \$0 SMIC CONTROL CABLING EACH \$13,000,000</structure<>	\$500 \$500,000 \$50,00% \$1,040,000 \$500 \$0 \$0,00% \$0 \$500 \$0 \$0,00% \$0 \$400 \$0 \$0,00% \$0 \$400 \$0 \$0,00% \$0 \$400 \$50 \$0,00% \$0 \$550 \$0 \$2,00% \$00 \$52,000,000 \$0 \$2,00% \$0 \$200,000 \$0 \$26,00% \$0 \$51,000 \$0 \$0,00% \$0 \$51,0000 \$0 \$20,00% \$0 \$51,0000 \$0 \$0,00% \$0 \$52,500 \$0 \$0,00% \$0 \$52,500 \$0 \$0,00% \$0 \$52,500 \$0 \$0,00% \$0 \$52,000 \$0 \$20,00% \$0 \$20,000 \$0 \$26,00% \$0 \$20,000 \$0 \$26,00% \$0 \$20,0000 \$0 \$26,00%	ROAD SHORT BRIDGE CONCRETE	SF	\$400	\$0	30.00%	\$0	
MAYA BRIDGE CONCRETE SF \$400 \$0 500 500 BAYAY BRIDGE STEEL SF \$550 \$0 30.00% \$0 BERLE BRIDGE STEEL SF \$550 \$0 30.00% \$0 DOD GATE EA \$550,000 \$700,000 25.00% \$00 BRITVE TRAIN CONTROL MLE \$2.000,000 \$0 25.00% \$0 BRITVE TRAIN CONTROL MLE \$2.000,000 \$0 25.00% \$0 AIN CONTROL CABLING EACH \$200,000 \$0 25.00% \$0 AIN CONTROL CABLING BOOS LF \$150,000 \$0 20.00% \$0 AIN CONTROL CABLING BOOS LF \$150,000 \$0 20.00% \$0 AIN CONTROL CABLING BOOS LF \$150,000 \$0 20.00% \$0 BITUTE TRAINFORMACEL ELECTRICAL SERVICE EACH \$2.500 \$0 30.00% \$0 BUTUTES TRAINFORMODEL STATION EACH \$3.00,000 \$0 20.00% \$0	\$400 \$0 \$0.00% \$0 \$550 \$0 \$0.00% \$0 \$550 \$0 \$0.00% \$0 \$5750 \$0 \$25.00% \$875.000 \$5750 \$0 \$25.00% \$80 \$52.000.000 \$0 \$30.00% \$0 \$52.000.000 \$0 \$30.00% \$0 \$50.0000 \$0 \$30.00% \$0 \$50.0000 \$0 \$30.00% \$0 \$50.0000 \$0 \$30.00% \$0 \$50.0000 \$0 \$30.00% \$0 \$50.0000 \$0 \$0.00% \$0 \$22.000 \$0 \$20.00% \$0 \$25.000 \$0 \$20.00% \$0 \$22.000 \$0 \$20.00% \$0 \$32.000 \$0 \$20.00% \$0 \$35.000 \$0 \$25.00% \$0 \$35.000 \$0 \$25.00% \$0 \$32.0000 \$0 \$25.00%	ROAD AERIAL GUIDEWAY		\$500	\$0	30.00%	\$0	
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\$30,152,714

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STRIPPING LF \$1 \$0 20.00% \$)
1200 PERMANENT FENCING LF \$35 \$42,000 20.00% \$50,40)
VEHICULAR FENCE GATES EACH \$2,000 \$0 20.00% \$ 7610 SILT FENCE and ORANGE FENCE LF \$15 \$114,150 20.00% \$136,90	
EROSION CONTROL TEMPORARY SF \$7 \$0 30.00%	
LANDSCAPING PERMANENT SY \$15 \$0 30.00% S UTILITY RELOCATIONS LF \$30 \$0 30.00% S	
1 DEVELOP PERMANENT WATER SUPPLY LS \$100,000 \$100,000 30.00% \$130,00	
YARD LIGHTING EACH \$2,500 \$0 20.00%	1
TRACK WORK	\$1,200,000
)
TRACK PANELS SF \$75 \$0 30.00% \$2 CROSSOVER № 15 EACH \$800,000 \$0 20.00% \$2	
1 CROSSOVER No.20 EACH \$1,000,000 \$1,000,000 20.00% \$1,200,00)
TURNOUT (#7) EACH \$200,000 \$0 10.00% \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000	
TURNOUT (#24) EACH \$450,000 \$0 10.00% \$2 DIAMOND CROSSING EACH \$500,000 \$0 10.00% \$2)
DERAIL EACH \$100,000 \$0 10.00%	
SIGNAL WORK	\$1,044,000
1 PEDESTRIAN GATES & SIGNALS EACH \$100,000 \$100,000 20.00% \$120,00	,
CANTILEVER SIGNAL EACH \$200,000 \$0 20.00%	
1 DOG HOUSE (Signal House) EACH \$250,000 \$20,000 \$300,00 1 NEW ELECTRIC SERVICE EACH \$20,000 \$20,000 \$20,000 \$24,00	

NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL 1 NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH MILE	\$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$500,000 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$600,000 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$2,812,500
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL 1 PEDESTRIAN TUNNEL ACCESS STRUCTURE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF EA LF CY	\$200 \$400 \$500 \$500 \$550 \$550 \$2,250,000 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,250,000 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 25.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$2,812,500 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$50,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$10,731,643
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION 27150 STATION PLATFORM STRUCTURES NEW 800 STATION CANOPY STATION PLATFORM STRUCTURES UPGRADE 1 STATION PRIMARY ELECTRICAL SERVICE 27150 STATION AMENITIES INSPECTION PIT 278 PARKING LOTS PARKING STRUCTURES 21750 BUS LANE AND UNLOADING 278 PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH SF SF EACH SF SPACES SPACES SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$200 \$450,000 \$300,000	\$0 \$5,430,000 \$60,000 \$50,000 \$1,764,750 \$834,000 \$834,000 \$543,750 \$55,600 \$0 \$50,600 \$0	20.00% 50.00% 20.00% 20.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$0 \$6,516,000 \$72,000 \$55,000 \$2,294,175 \$0 \$1,042,500 \$0 \$679,688 \$72,280 \$0 \$0 \$0 \$0 \$0 \$0	
RIGHT OF WAY						\$2,825,938
ROW LAND ONLY 452150 ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$0 \$2,260,750 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$2,825,938 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

\$21,196,283

Escalation from 2017 to 2020 (9.9%)

\$23,294,715

	SACRAMENTO SUBDIVISION		Rev1	Rev 2	DATE Rev 3	Rev 4	
			3/2/2020				
SE-S1b	LODI STATION SOUTH ALTERNATIVE						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$3,800,242
1	3 CLEAR & GRUB LIGHT	AC	\$2,500	\$32,500	40.00%	\$45,500	
	CLEAR & GRUB HEAVY DEMOLITION	AC SF	\$5,000 \$8	\$0 \$0	30.00% 30.00%	\$0 \$0	
1600		BCY	\$25	\$400,000		\$520,000	
	EARTHWORK (EXCAVATION ROCK) EMBANKMENT	BCY FCY	\$50 \$10	\$0 \$0	30.00% 30.00%	\$0 \$0	
	BORROW	FCY	\$25	\$0	30.00%	\$0	
	REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580	LF SF	\$400 \$100	\$0 \$0	30.00% 50.00%	\$0 \$0	
	STRUCTURE EXCAVATION	CY	\$40	\$0	25.00%	\$0	
	RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL)	SF SF	\$35 \$60	\$0 \$0	20.00% 30.00%	\$0 \$0	
	SOIL NAIL WALLS	SF	\$70	\$0	30.00%	\$0 \$0	
	MSE WALL ROADWAY SOUND WALL	SF LF	\$55 \$90	\$0 \$0	25.00% 50.00%	\$0 \$0	
	BOX CULVERT	CY	\$90	\$0 \$0	30.00%	\$0 \$0	
		CY	\$1,000	\$0	30.00%	\$0	
3822	4 DRAINAGE (DIA-INCH-FOOT) - Including Storm Water Management DRAINAGE (DIA-INCH-FOOT)	LF LF	\$12 \$12	\$458,687 \$0	40.00% 40.00%	\$642,162 \$0	
	IMPORTED BORROW ROADWAY	CY	\$25	\$0	25.00%	\$0	
7200	0 ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$1,800,000 \$0	25.00% 25.00%	\$2,250,000 \$0	
	ASCHALT CONCRETE ROADWAY	TONS	\$65	\$0 \$0	25.00%	\$0 \$0	
		CY	\$210	\$0	20.00%	\$0	
	GUARD RAIL ROADWAY ASPHALT DIKES ROADWAY	LF LF	\$30 \$4	\$0 \$0	25.00% 25.00%	\$0 \$0	
	STREET RESTORATIONS	SF	\$15	\$0	40.00%	\$0	
	SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL	EACH EACH	\$300,000 \$100,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	STREET LIGHTING	EACH	\$4,500	\$0	20.00%	\$0	
	TRAFFIC CONTROL MINOR CONCRETE	DAYS CY	\$1,200 \$400	\$0 \$0	50.00% 30.00%	\$0 \$0	
	K RAIL TEMPORARY	LF	\$30	\$0 \$0	30.00%	\$0 \$0	
	CONCRETE BARRIER STRIPPING	LF LF	\$50	\$0 \$0	30.00%	\$0 \$0	
180	0 PERMANENT FENCING	LF	\$1 \$35	\$63,000	20.00% 20.00%	\$0 \$75,600	
704	VEHICULAR FENCE GATES	EACH	\$2,000	\$0	20.00%	\$0	
761	0 SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY	LF SF	\$15 \$7	\$114,150 \$0	20.00% 30.00%	\$136,980 \$0	
	LANDSCAPING PERMANENT	SY	\$15	\$0	30.00%	\$0	
	UTILITY RELOCATIONS 1 DEVELOP PERMANENT WATER SUPPLY	LF LS	\$30 \$100,000	\$0 \$100,000	30.00% 30.00%	\$0 \$130,000	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$1,209,600
20		TF	\$40	\$8,000	20.00%	\$9,600	
	REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK	EACH TF	\$25,000 \$100	\$0 \$0	10.00% 20.00%	\$0 \$0	
	UPGRADE EXISTING TRACK	TF	\$300	\$0	20.00%	\$0	
	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF TF	\$500 \$450	\$0 \$0		\$0 \$0	
	GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF	\$750	\$0	20.00%	\$0	
	TRACK PANELS CROSSOVER №.15	SF EACH	\$75 \$800.000	\$0 \$0	30.00% 20.00%	\$0 \$0	
	1 CROSSOVER No.20	EACH	\$1,000,000	ەن \$1,000,000		\$0 \$1,200,000	
	TURNOUT (#7)	EACH	\$200,000	\$0	10.00%	\$0	
	TURNOUT (#8) TURNOUT (#9)	EACH EACH	\$210,000 \$220,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#10)	EACH	\$250,000	\$0	10.00%	\$0	
	TURNOUT (#14) TURNOUT (#15)	EACH EACH	\$325,000 \$350,000	\$0 \$0		\$0 \$0	
	TURNOUT (#20)	EACH	\$400,000	\$0	10.00%	\$0	
	TURNOUT (#24) DIAMOND CROSSING	EACH EACH	\$450,000 \$500,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	DERAIL	EACH	\$100,000	\$0		\$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0		\$0 \$0	
	SIGNAL WORK						\$1,044,000
	1 PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$100,000		\$120,000	
	CANTILEVER SIGNAL	EACH EACH	\$200,000 \$250,000	\$0		\$0 \$200,000	
	1 DOG HOUSE (Signal House)	EACH	\$250,000	\$250,000	20.00%	\$300,000	
	1 NEW ELECTRIC SERVICE	EACH	\$20,000	\$20,000	20.00%	\$24,000	

NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL 1 NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH MILE	\$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$500,000 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$600,000 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$2,812,500
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL 1 PEDESTRIAN TUNNEL ACCESS STRUCTURE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF EA LF CY	\$200 \$400 \$500 \$500 \$550 \$550 \$2,250,000 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,250,000 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 25.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$2,812,500 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$10,646,035
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION 27150 STATION PLATFORM STRUCTURES NEW 800 STATION PLATFORM STRUCTURES UPGRADE 1 STATION PRIMARY ELECTRICAL SERVICE 27150 STATION AMENITIES INSPECTION PIT 236 PARKING LOTS PARKING STRUCTURES 24400 BUS LANE AND UNLOADING 236 PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$5,430,000 \$60,000 \$50,000 \$1,764,750 \$0 \$708,000 \$0 \$610,000 \$47,200 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 20.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$6,516,000 \$72,000 \$55,000 \$2,294,175 \$0 \$885,000 \$885,000 \$61,360 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
RIGHT OF WAY						\$2,684,375
ROW LAND ONLY 429500 ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$0 \$2,147,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$2,684,375 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

\$22,196,752

Escalation from 2017 to 2020 (9.9%)

\$24,394,230

SACRAMENTO SUBDIVISION			Rev1	DATE Rev1 Rev 2 Rev 3 Rev 4			
			3/2/2020				
SE-S2a	ELK GROVE STATION PLATFORM VARIANT 1 WITH PARKING						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$2,214,319
12		AC AC	\$2,500	\$30,000	40.00%	\$42,000	
5000	CLEAR & GRUB HEAVY DEMOLITION	SF	\$5,000 \$8	\$0 \$0	30.00% 30.00%	\$0	
5000) EARTHWORK COMMON EARTHWORK (EXCAVATION ROCK)	BCY BCY	\$25 \$50	\$125,000 \$0	30.00% 30.00%	\$162,500 \$0	
) EMBANKMENT) BORROW	FCY FCY	\$10 \$25	\$150,000 \$375,000	30.00% 30.00%	\$195,000 \$487,500	
	REMOVE HOV LANE CONTROLS SYSTEM	LF SF	\$400 \$100	\$0 \$0	30.00% 50.00%	\$0	
	RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION	CY	\$40	\$0	25.00%	\$0 \$0	
	RETAINING WALLS (0 TO 10 FEET TALL)	SF SF	\$35 \$60	\$0 \$0	20.00% 30.00%	\$0 \$0	
	RETAINING WALLS (10 TO 20 FEET TALL) SOIL NAIL WALLS	SF	\$70	\$0 \$0	30.00%	\$0 \$0	
	MSE WALL ROADWAY SOUND WALL	SF LF	\$55 \$90	\$0 \$0	25.00% 50.00%	\$0 \$0	
	BOX CULVERT	CY	\$90 \$1,000	\$0 \$0	30.00%		
2529/	BOX CULVERT	CY LF	\$1,000 \$12	\$0 \$122 402	30.00% 40.00%	\$0 \$592,764	
35264	I DRAINAGE (DIA-INCH-FOOT) - Including Storm Water Management DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$423,403 \$0	40.00%	\$592,764 \$0	
10700		CY	\$25	\$0	25.00%	\$0	
10700) ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$267,500 \$0	25.00% 25.00%	\$334,375 \$0	
	ASPHALT CONCRETE ROADWAY CONCRETE PAVEMENT	TONS	\$65	\$0	25.00%	\$0	
	GUARD RAIL ROADWAY	CY LF	\$210 \$30	\$0 \$0	20.00% 25.00%	\$0 \$0	
	ASPHALT DIKES ROADWAY	LF	\$4	\$0 \$0	25.00%	\$0 \$0	
	STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL	SF EACH	\$15 \$300,000	\$0 \$0	40.00% 20.00%	\$0 \$0	
	MODIFIED TRAFFIC SIGNAL	EACH	\$100,000	\$0 \$0	20.00%	\$0 \$0	
	STREET LIGHTING TRAFFIC CONTROL	EACH DAYS	\$4,500 \$1,200	\$0 \$0	20.00% 50.00%	\$0 \$0	
	MINOR CONCRETE K RAIL TEMPORARY	CY LF	\$400 \$20	\$0 \$0	30.00% 30.00%	\$0 \$0	
	CONCRETE BARRIER	LF	\$30 \$50	\$0 \$0	30.00%	\$0 \$0	
2750		LF LF	\$1 \$25	\$0 ¢121.250	20.00%		
3750) PERMANENT FENCING VEHICULAR FENCE GATES	EACH	\$35 \$2,000	\$131,250 \$0	20.00% 20.00%	\$157,500 \$0	
6260) SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY	LF SF	\$15 \$7	\$93,900 \$0	20.00% 30.00%	\$112,680 \$0	
	LANDSCAPING PERMANENT	SY	\$15	\$0 \$0	30.00%		
1	UTILITY RELOCATIONS DEVELOP PERMANENT WATER SUPPLY	LF LS	\$30 \$100.000	\$0 \$100,000	30.00% 30.00%	\$0 \$130,000	
	YARD LIGHTING	EACH	\$2,500	\$100,000 \$0	20.00%	\$0	
	TRACK WORK						\$0
	REMOVE EXISTING TRACK	TF	\$40	\$0	20.00%		
	REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK	EACH TF	\$25,000 \$100	\$0 \$0	10.00% 20.00%		
		TF	\$300	\$0	20.00%		
	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF TF	\$500 \$450	\$0 \$0	25.00% 25.00%		
	GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF SF	\$750 \$75	\$0 \$0	20.00% 30.00%		
	TRACK PANELS CROSSOVER No.15	EACH	\$75 \$800,000	\$0 \$0	20.00%		
	CROSSOVER No.20	EACH	\$1,000,000	\$0 ©0	20.00%		
	TURNOUT (#7) TURNOUT (#8)	EACH EACH	\$200,000 \$210,000	\$0 \$0	10.00% 10.00%		
	TURNOUT (#9) TURNOUT (#10)	EACH EACH	\$220,000 \$250,000	\$0 \$0	10.00% 10.00%		
	TURNOUT (#10)	EACH	\$250,000	\$0 \$0	10.00%		
	TURNOUT (#15) TURNOUT (#20)	EACH EACH	\$350,000 \$400,000	\$0 \$0	10.00% 10.00%		
	TURNOUT (#20)	EACH	\$400,000	\$0 \$0	10.00%		
	DIAMOND CROSSING DERAIL	EACH EACH	\$500,000 \$100,000	\$0 \$0	10.00% 10.00%		
	BUMPING POST	EACH	\$25,000	\$0	20.00%	\$0	
	UPGRADE MAINTRACK TO CLASS 6	TF	\$100	\$0	30.00%	\$0	
		FACU	\$400 000	**	00.000	* 0	\$0
	PEDESTRIAN GATES & SIGNALS CANTILEVER SIGNAL	EACH EACH	\$100,000 \$200,000	\$0 \$0	20.00% 20.00%	\$0	
	DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH	\$250,000 \$20,000	\$0 \$0	20.00% 20.00%		
		2.001	<i>\</i> 20,000	ψŪ	20.00 /0	ψυ	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$2,925,000
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL 1 PEDESTRIAN BRIDGE WITH ACCESS STRUCTURES BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF EA LF CY	\$200 \$400 \$500 \$500 \$550 \$550 \$2,250,000 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,250,000 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$2,925,000 \$0 \$0	0.00 0.00 0.00 0.00 0.00 0.00
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$14,525,425
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION 27150 STATION PLATFORM STRUCTURES NEW 800 STATION PLATFORM STRUCTURES UPGRADE 1 STATION PRIMARY ELECTRICAL SERVICE 27150 STATION AMENITIES INSPECTION PIT 700 PARKING LOTS PARKING STRUCTURES 17000 BUS LANE AND UNLOADING 700 PARKING LOT LIGHTING 4 ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$200 \$450,000 \$300,000	\$0 \$5,430,000 \$60,000 \$55,000 \$1,764,750 \$2,100,000 \$2,100,000 \$425,000 \$140,000 \$1,800,000 \$0	20.00% 50.00% 20.00% 20.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$0 \$6,516,000 \$72,000 \$55,000 \$2,294,175 \$0 \$2,625,000 \$0 \$531,250 \$182,000 \$2,250,000 \$2,250,000 \$0	
RIGHT OF WAY						\$3,230,000
646000 ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$2,584,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$3,230,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$ 0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	\$0
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

TOTAL CONSTRUCTION COST

Escalation from 2017 to 2020 (9.9%)

\$22,894,744

\$25,161,324

SACRAMENTO SUBDIVISION			Rev1	DATE Rev1 Rev 2 Rev 3 Rev 4			
			3/2/2020				
SE-S2b	ELK GROVE STATION PLATFORM VARIANT 2 WITH PARKING						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$2,864,319
12	2 CLEAR & GRUB LIGHT	AC	\$2,500	\$30,000	40.00%	\$42,000	
	CLEAR & GRUB HEAVY DEMOLITION	AC SF	\$5,000 \$8	\$0 \$0	30.00% 30.00%	\$0 \$0	
5000) EARTHWORK COMMON EARTHWORK (EXCAVATION ROCK)	BCY BCY	\$25 \$50	\$125,000 \$0	30.00% 30.00%	\$162,500 \$0	
) EMBANKMENT	FCY	\$10	\$150,000	30.00%	\$195,000	
15000) BORROW REMOVE HOV LANE CONTROLS SYSTEM	FCY LF	\$25 \$400	\$375,000 \$0	30.00% 30.00%	\$487,500 \$0	
	RECONSTRUCT FREEWAY LANE 580	SF	\$100	\$0 ©	50.00%		
	STRUCTURE EXCAVATION RETAINING WALLS (0 TO 10 FEET TALL)	CY SF	\$40 \$35	\$0 \$0	25.00% 20.00%	\$0 \$0	
	RETAINING WALLS (10 TO 20 FEET TALL) SOIL NAIL WALLS	SF SF	\$60 \$70	\$0 \$0	30.00%	\$0 \$0	
	MSE WALL ROADWAY	SF	\$70 \$55	\$0 \$0	30.00% 25.00%	\$0 \$0	
	SOUND WALL BOX CULVERT	LF CY	\$90 \$1,000	\$0 \$0	50.00% 30.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0 \$0	30.00%	\$0	
35284	DRAINAGE (DIA-INCH-FOOT) - Including Storm Water Management DRAINAGE (DIA-INCH-FOOT)	LF LF	\$12 \$12	\$423,403 \$0	40.00% 40.00%		
	IMPORTED BORROW ROADWAY	CY	\$25	\$0 \$0	25.00%		
10700) ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$267,500 \$0	25.00% 25.00%		
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0	25.00%	\$0	
	CONCRETE PAVEMENT GUARD RAIL ROADWAY	CY LF	\$210 \$30	\$0 \$0	20.00% 25.00%	\$0 \$0	
	ASPHALT DIKES ROADWAY	LF	\$4	\$0	25.00%	\$0	
	STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL	SF EACH	\$15 \$300,000	\$0 \$0	40.00% 20.00%	\$0 \$0	
	MODIFIED TRAFFIC SIGNAL	EACH	\$100,000	\$0	20.00%	\$0	
	STREET LIGHTING TRAFFIC CONTROL	EACH DAYS	\$4,500 \$1,200	\$0 \$0	20.00% 50.00%	\$0 \$0	
		CY	\$400	\$0	30.00%	\$0	
	K RAIL TEMPORARY CONCRETE BARRIER	LF LF	\$30 \$50	\$0 \$0	30.00% 30.00%	\$0 \$0	
0750	STRIPPING	LF LF	\$1 \$25	\$0 \$124.050	20.00%		
3750) PERMANENT FENCING VEHICULAR FENCE GATES	EACH	\$35 \$2,000	\$131,250 \$0	20.00% 20.00%	\$157,500 \$0	
6260) SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY	LF SF	\$15 \$7	\$93,900 \$0	20.00% 30.00%		
	LANDSCAPING PERMANENT	SY	\$15	\$0	30.00%	\$0	
	I ELECTRICAL TRANSMISSION LINE RELOCATION I DEVELOP PERMANENT WATER SUPPLY	LS LS	\$500,000 \$100,000	\$500,000 \$100,000	30.00% 30.00%	\$650,000 \$130,000	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$0
	REMOVE EXISTING TRACK REMOVE EXISTING TURNOUTS	TF EACH	\$40 \$25,000	\$0 \$0	20.00% 10.00%		
	SHIFT EXISTING TRACK	TF	\$23,000 \$100	\$0 \$0	20.00%		
	UPGRADE EXISTING TRACK TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST)	TF TF	\$300 \$500	\$0 \$0	20.00% 25.00%		
	TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF	\$450	\$0	25.00%	\$0	
	GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC) TRACK PANELS	TF SF	\$750 \$75	\$0 \$0	20.00% 30.00%		
	CROSSOVER No.15	EACH	\$800,000	\$0	20.00%	\$0	
	CROSSOVER No.20 TURNOUT (#7)	EACH EACH	\$1,000,000 \$200,000	\$0 \$0	20.00% 10.00%		
		EACH	\$210,000	\$0 ©	10.00%		
	TURNOUT (#9) TURNOUT (#10)	EACH EACH	\$220,000 \$250,000	\$0 \$0	10.00% 10.00%		
	TURNOUT (#14) TURNOUT (#15)	EACH EACH	\$325,000 \$350,000	\$0 \$0	10.00% 10.00%		
	TURNOUT (#13)	EACH	\$400,000	\$0	10.00%		
	TURNOUT (#24) DIAMOND CROSSING	EACH EACH	\$450,000 \$500,000	\$0 \$0	10.00% 10.00%		
	DERAIL	EACH	\$100,000	\$0	10.00%	\$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0	20.00% 30.00%		
	SIGNAL WORK						\$0
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%		
	CANTILEVER SIGNAL DOG HOUSE (Signal House)	EACH EACH	\$200,000 \$250,000	\$0 \$0	20.00% 20.00%		
	NEW ELECTRIC SERVICE	EACH	\$20,000	\$0 \$0	20.00%		

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$2,925,000
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL 1 PEDESTRIAN BRIDGE WITH ACCESS STRUCTURES BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF EA LF CY	\$200 \$400 \$500 \$500 \$550 \$550 \$2,250,000 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,925,000 \$0 \$0	0.00 0.00 0.00 0.00 0.00 0.00
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$14,525,425
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION 27150 STATION PLATFORM STRUCTURES NEW 800 STATION PLATFORM STRUCTURES UPGRADE 1 STATION PRIMARY ELECTRICAL SERVICE 27150 STATION AMENITIES INSPECTION PIT 700 PARKING LOTS PARKING STRUCTURES 17000 BUS LANE AND UNLOADING 700 PARKING LOT LIGHTING 4 ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$200 \$450,000 \$300,000	\$0 \$5,430,000 \$60,000 \$55,000 \$1,764,750 \$2,100,000 \$2,100,000 \$425,000 \$140,000 \$1,800,000 \$0	20.00% 50.00% 20.00% 20.00% 30.00% 30.00% 25.00% 25.00% 30.00% 25.00% 25.00%	\$0 \$0 \$6,516,000 \$72,000 \$55,000 \$2,294,175 \$0 \$2,625,000 \$0 \$531,250 \$182,000 \$2,250,000 \$0 \$0	
RIGHT OF WAY						\$3,230,000
646000 ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$2,584,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$3,230,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	\$0
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS			·			\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

TOTAL CONSTRUCTION COST

Escalation from 2017 to 2020 (9.9%)

\$23,544,744

\$25,875,674

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
SE-S2c	ELK GROVE STATION ACCESS VARIANT 1		3/2/2020				
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
Quantity	CIVIL WORKS						\$3,626,450
2	2 CLEAR & GRUB LIGHT	AC	\$2,500	\$5,000	40.00%	\$7,000	
3000	CLEAR & GRUB HEAVY DEMOLITION	AC SF	\$5,000 \$8	\$0 \$24.000	30.00% 30.00%	\$0 \$31,200	
) EARTHWORK COMMON	BCY	\$25	\$75,000	30.00%	\$97,500	
4000	EARTHWORK (EXCAVATION ROCK) DEMBANKMENT	BCY FCY	\$50 \$10	\$0 \$40,000	30.00% 30.00%	\$0 \$52,000	
	BORROW	FCY	\$25	\$100,000	30.00%	\$130,000	
	REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580	LF SF	\$400 \$100	\$0 \$0	30.00% 50.00%	\$0 \$0	
	STRUCTURE EXCAVATION	CY	\$40	\$0	25.00%	\$0	
	RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL)	SF SF	\$35 \$60	\$0 \$0	20.00% 30.00%	\$0 \$0	
	SOIL NAIL WALLS	SF	\$70	\$0	30.00%	\$0 \$0	
	MSE WALL ROADWAY SOUND WALL	SF LF	\$55 \$90	\$0 \$0	25.00% 50.00%	\$0 \$0	
	BOX CULVERT	CY	\$90 \$1,000	\$0 \$0	30.00%	\$0 \$0	
750		CY	\$1,000	\$0	30.00%	\$0	
7500	DRAINAGE (DIA-INCH-FOOT) - Including Storm Water Management DRAINAGE (DIA-INCH-FOOT)	LF LF	\$12 \$12	\$90,000 \$0	40.00% 40.00%	\$126,000 \$0	
	IMPORTED BORROW ROADWAY	CY	\$25	\$0	25.00%	\$0	
47000) ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$1,175,000 \$0	25.00% 25.00%	\$1,468,750 \$0	
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0 \$0	25.00%	\$0 \$0	
	CONCRETE PAVEMENT GUARD RAIL ROADWAY	CY LF	\$210 \$30	\$0 \$0	20.00% 25.00%	\$0 \$0	
	ASPHALT DIKES ROADWAY	LF	\$30 \$4	\$0 \$0	25.00%	\$0 \$0	
		SF	\$15	\$0	40.00%	\$0	
	1 SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL	EACH EACH	\$300,000 \$100,000	\$300,000 \$0	20.00% 20.00%	\$360,000 \$0	
	STREET LIGHTING	EACH	\$4,500	\$0	20.00%	\$0	
	TRAFFIC CONTROL MINOR CONCRETE	DAYS CY	\$1,200 \$400	\$0 \$0	50.00% 30.00%	\$0 \$0	
	K RAIL TEMPORARY	LF	\$30	\$0	30.00%	\$0	
	CONCRETE BARRIER STRIPPING	LF LF	\$50 \$1	\$0 \$0	30.00% 20.00%	\$0 \$0	
	PERMANENT FENCING	LF	\$35	\$0 \$0	20.00%	\$0 \$0	
2000	VEHICULAR FENCE GATES D SILT FENCE and ORANGE FENCE	EACH LF	\$2,000 \$15	\$0 \$45,000	20.00% 20.00%	\$0 \$54,000	
5000	EROSION CONTROL TEMPORARY	SF	\$7	¢45,000 \$0	30.00%	\$04,000 \$0	
1000		SY LF	\$15 \$1 000	\$0 \$1,000,000	30.00%	\$0 \$1 200 000	
1000) OVERHEAD ELECTRIC LINE RELOCATION DEVELOP PERMANENT WATER SUPPLY	LF LS	\$1,000 \$100,000	\$1,000,000 \$0	30.00% 30.00%	\$1,300,000 \$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$0
	REMOVE EXISTING TRACK REMOVE EXISTING TURNOUTS	TF EACH	\$40 \$25,000	\$0 \$0	20.00% 10.00%	\$0 \$0	
	SHIFT EXISTING TRACK UPGRADE EXISTING TRACK	TF TF	\$100 \$300	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST)	TF	\$500	\$0 \$0	25.00%	\$0 \$0	
	TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF TF	\$450 \$750	\$0 \$0	25.00% 20.00%	\$0 \$0	
	TRACK PANELS	SF	\$75	\$0 \$0	30.00%	\$0 \$0	
	CROSSOVER No.15	EACH	\$800,000	\$0 \$0	20.00%	\$0 \$0	
	CROSSOVER No.20 TURNOUT (#7)	EACH EACH	\$1,000,000 \$200,000	\$0 \$0	20.00% 10.00%	\$0 \$0	
		EACH	\$210,000	\$0	10.00%	\$0	
	TURNOUT (#9) TURNOUT (#10)	EACH EACH	\$220,000 \$250,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#14)	EACH	\$325,000	\$0	10.00%	\$0	
	TURNOUT (#15) TURNOUT (#20)	EACH EACH	\$350,000 \$400,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#24)	EACH	\$450,000	\$0	10.00%	\$0	
	DIAMOND CROSSING DERAIL	EACH EACH	\$500,000 \$100,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH	\$25,000 \$100	\$0 \$0	20.00% 30.00%	\$0 \$0 \$0	
	SIGNAL WORK						\$(
	PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$0	20.00%	\$0	
	PEDESTRIAN GATES & SIGNALS CANTILEVER SIGNAL DOG HOUSE (Signal House)	EACH EACH EACH	\$100,000 \$200,000 \$250,000	\$0 \$0 \$0	20.00% 20.00% 20.00%	\$0 \$0 \$0	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE WITH ACCESS STRUCTURES BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF EA LF CY	\$200 \$400 \$500 \$500 \$500 \$550 \$2,000,000 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 50.00\%\\ 30.00\%\\ 30.00\%\\ 50.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 25.00\%\\ 25.00\%\end{array}$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0.00 0.00 0.00 0.00 0.00 0.00
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION PLATFORM STRUCTURES UPGRADE STATION PLATFORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SPACES EACH EACH	\$13,000,000 \$200 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 20.00% 30.00% 30.00% 25.00% 25.00% 25.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$204,730
40946 ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$8 \$10 \$14 \$16 \$1	\$163,784 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$204,730 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	\$0
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS		2000	<i>~~</i>		Ψ.	\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

\$3,831,180

\$4,210,467

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
SE-S2d	ELK GROVE STATION ACCESS VARIANT 2						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$6,585,650
1000 6000 10000 10000 10000 101000	CIVIL WORKS CLEAR & GRUB LIGHT CLEAR & GRUB HEAVY DEMOLITION EARTHWORK COMMON EARTHWORK (EXCAVATION ROCK) EMBANKMENT BORROW REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL) SOIL NAIL WALLS MSE WALL ROADWAY SOUND WALL BOX CULVERT DRAINAGE (DIA-INCH-FOOT) - Including Storm Water Management DRAINAGE (DIA-INCH-FOOT) - Including Storm Water Management DRAINAGE (DIA-INCH-FOOT) IMPORTED BORROW ROADWAY ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY ASPHALT CONCRETE ROADWAY ASPHALT CONCRETE ROADWAY SIRGET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL MIDOR CONCRETE K RAIL TEMPORARY CONCRETE BARRIER STRIPING PERMANENT FENCING VEHICULAR FENCE GATES SILT FENCE AND ORAMINE	AC G F Y Y Y F F F F F F F F Y Y F F Y S Y S	\$2,500 \$5,000 \$8 \$25 \$50 \$10 \$25 \$400 \$100 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$125 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$	\$10,000 \$0 \$8,000 \$150,000 \$250,000 \$00 \$00 \$00 \$00 \$180,000 \$180,000 \$180,000 \$180,000 \$0 \$180,000 \$0 \$100,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 25.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 40.00% 40.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 20.00% 20.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 20.00% 20.00% 20.00% 20.00% 20.00%	\$14,000 \$0 \$10,400 \$195,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$6,585,650
1750	EROSION CONTROL TEMPORARY LANDSCAPING PERMANENT OVERHEAD ELECTRIC LINE RELOCATION DEVELOP PERMANENT WATER SUPPLY	SF SY LF LS	\$7 \$15 \$1,000 \$100,000	\$0 \$0 \$1,750,000 \$0	30.00% 30.00%	\$0 \$0 \$2,275,000 \$0	
	YARD LIGHTING	EACH	\$2,500	\$0		\$0	
	TRACK WORK						\$0
	REMOVE EXISTING TRACK REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK UPGRADE EXISTING TRACK TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC) TRACK PANELS CROSSOVER No.15 CROSSOVER No.15 CROSSOVER No.20 TURNOUT (#7) TURNOUT (#8) TURNOUT (#9) TURNOUT (#10) TURNOUT (#10) TURNOUT (#14) TURNOUT (#15) TURNOUT (#20) TURNOUT (#24) DIAMOND CROSSING DERAIL BUMPING POST UPGRADE MAINTRACK TO CLASS 6	TF EACH TF TF TF EACH EACH EACH EACH EACH EACH EACH EACH	\$40 \$25,000 \$100 \$300 \$500 \$450 \$75 \$800,000 \$200,000 \$220,000 \$220,000 \$220,000 \$220,000 \$220,000 \$220,000 \$250,000 \$325,000 \$450,000 \$450,000 \$450,000 \$450,000 \$100,0000 \$100,0000 \$100,0000 \$100,0000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	10.00% 20.00% 25.00% 25.00% 20.00% 30.00% 20.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
	SIGNAL WORK						\$0
	PEDESTRIAN GATES & SIGNALS CANTILEVER SIGNAL DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH EACH EACH	\$100,000 \$200,000 \$250,000 \$20,000	\$0 \$0 \$0 \$0	20.00% 20.00%	\$0 \$0 \$0 \$0	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE WITH ACCESS STRUCTURES BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF EA LF CY	\$200 \$400 \$500 \$500 \$500 \$550 \$2,000,000 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 50.00\%\\ 30.00\%\\ 30.00\%\\ 50.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 25.00\%\\ 25.00\%\\ \end{array}$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0.00 0.00 0.00 0.00 0.00 0.00
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$0
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION STATION PLATFORM STRUCTURES NEW STATION PLATFORM STRUCTURES UPGRADE STATION PLATFORM STRUCTURES UPGRADE STATION PRIMARY ELECTRICAL SERVICE STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SPACES EACH EACH	\$13,000,000 \$200 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	20.00% 50.00% 20.00% 20.00% 30.00% 30.00% 25.00% 25.00% 25.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$204,730
40946 ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$8 \$10 \$14 \$16 \$1	\$163,784 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$204,730 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	\$0
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS		2000	<i>~~</i>		ΨŬ	\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

\$6,790,380

\$7,462,628

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
SE-S3 CITY COLLEGE ST	ΓΑΤΙΟΝ		5/2/2020				
		-					SUB TOTAL
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	WORK ELEMENT
	CIVIL WORKS						\$3,583,800
1 CLEAR & GRUB LI	GHT	AC	\$2,500	\$2,500	40.00%	\$3,500	
CLEAR & GRUB H DEMOLITION	EAVY	AC SF	\$5,000 \$8	\$0 \$0		\$0 \$0	
2200 EARTHWORK CO		BCY	\$25	\$55,000	30.00%	\$71,500	
EARTHWORK (EX EMBANKMENT	CAVATION ROCK)	BCY FCY	\$50 \$10	\$0 \$0		\$0 \$0	
BORROW		FCY	\$25	\$0	30.00%	\$0	
	NE CONTROLS SYSTEM REEWAY LANE 580	LF SF	\$400 \$100	\$0 \$0		\$0 \$0	
STRUCTURE EXC	AVATION	CY	\$40	\$0	25.00%	\$0	
	S (0 TO 10 FEET TALL) S (10 TO 20 FEET TALL)	SF SF	\$35 \$60	\$0 \$0		\$0 \$0	
SOIL NAIL WALLS	, ,	SF	\$70	\$0	30.00%	\$0	
MSE WALL ROAD SOUND WALL	WAY	SF LF	\$55 \$90	\$0 \$0		\$0 \$0	
BOX CULVERT		CY	\$1,000	\$0	30.00%	\$0	
BOX CULVERT DRAINAGE (DIA-I	NCH-FOOT)	CY LF	\$1,000 \$12	\$0 \$0		\$0 \$0	
DRAINAGE (DIA-I	NCH-FOOT)	LF	\$12	\$0	40.00%	\$0	
IMPORTED BORR	OW ROADWAY TRUCTION (BASE, PAVE, FINISHES)	CY SF	\$25 \$25	\$0 \$0		\$0 \$0	
AGGREGATE BAS	E ROADWAY	CY	\$45	\$0	25.00%	\$0	
ASPHALT CONCR CONCRETE PAVE		TONS CY	\$65 \$210	\$0 \$0		\$0 \$0	
GUARD RAIL ROA	ADWAY	LF	\$30	\$0	25.00%	\$0	
ASPHALT DIKES F STREET RESTOR		LF SF	\$4 \$15	\$0 \$0		\$0 \$0	
SIGNALLED STRE	ET TRAFFIC CONTROL	EACH	\$300,000	\$0	20.00%	\$0	
MODIFIED TRAFF		EACH EACH	\$100,000 \$4,500	\$0 \$0		\$0 \$0	
TRAFFIC CONTRO	DL	DAYS	\$1,200	\$0	50.00%	\$0	
MINOR CONCRET K RAIL TEMPORA		CY LF	\$400 \$30	\$0 \$0		\$0 \$0	
CONCRETE BARR	RIER	LF	\$50	\$0	30.00%	\$0	
1 STATION AREA M 1355 PERMANENT FEN		LS LF	\$3,451,890 \$35	\$3,451,890 \$47,425		\$3,451,890 \$56,910	
VEHICULAR FENC	E GATES	EACH	\$2,000	\$0	20.00%	\$0	
SILT FENCE and C EROSION CONTR		LF SF	\$15 \$7	\$0 \$0		\$0 \$0	
LANDSCAPING PE	ERMANENT	SY	\$15	\$0	30.00%	\$0	
UTILITY RELOCAT	TIONS NENT WATER SUPPLY	LF LS	\$30 \$100,000	\$0 \$0		\$0 \$0	
YARD LIGHTING		EACH	\$2,500	\$0 \$0		\$0 \$0	
	TRACK WORK						\$1,721,790
1730 REMOVE EXISTIN REMOVE EXISTIN		TF EACH	\$40 \$25,000	\$69,200 \$0		\$83,040 \$0	
SHIFT EXISTING T		TF	\$25,000 \$100	\$0 \$0		\$0 \$0	
UPGRADE EXISTI		TF TF	\$300 \$500	\$0 \$605.000		\$0 \$868.750	
	_, CONCRETE TIES, BALLAST & SUBBALLAST) _, WOOD TIES, BALLAST & SUBBALLAST)	TF	\$500 \$450	\$695,000 \$0		\$868,750 \$0	
GRADE CROSSIN TRACK PANELS	G TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF SF	\$750 \$75	\$0 \$0		\$0 \$0	
CROSSOVER No.1	15	EACH	\$75 \$800,000	\$0 \$0		\$0 \$0	
CROSSOVER No.2	20	EACH	\$1,000,000	\$0 \$0		\$0 \$0	
TURNOUT (#7) TURNOUT (#8)		EACH EACH	\$200,000 \$210,000	\$0 \$0		\$0 \$0	
TURNOUT (#9)		EACH	\$220,000	\$0 \$0		\$0 \$0	
TURNOUT (#10) TURNOUT (#14)		EACH EACH	\$250,000 \$325,000	\$0 \$0		\$0 \$0	
2 TURNOUT (#15)		EACH EACH	\$350,000	\$700,000 \$0		\$770,000 \$0	
TURNOUT (#20) TURNOUT (#24)		EACH	\$400,000 \$450,000	\$0 \$0		\$0 \$0	
DIAMOND CROSS DERAIL	ING	EACH EACH	\$500,000 \$100,000	\$0 \$0		\$0 \$0	
BUMPING POST		EACH	\$25,000	\$0	20.00%	\$0	
UPGRADE MAINTI	RACK TO CLASS 6	TF	\$100	\$0	30.00%	\$0	¢1 409 000
							\$1,428,000
PEDESTRIAN GAT CANTILEVER SIGI		EACH EACH	\$100,000 \$200,000	\$0 \$0		\$0 \$0	
2 DOG HOUSE (Sigr	nal House)	EACH	\$250,000	\$500,000	20.00%	\$600,000	
2 NEW ELECTRIC S	ERVICE	EACH	\$20,000	\$40,000	20.00%	\$48,000	•

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK 2 NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$650,000 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$780,000 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF SF LF CY	\$200 \$400 \$500 \$400 \$500 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 50.00\%\\ 30.00\%\\ 30.00\%\\ 50.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 25.00\%\\ 25.00\%\\ \end{array}$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES CROSSING TRACKS LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$5,518,263
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION 16725 STATION PLATFORM STRUCTURES NEW 400 STATION CANOPY STATION PLATFORM STRUCTURES UPGRADE 1 STATION PRIMARY ELECTRICAL SERVICE 16725 STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH SF SF EACH SF SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$200 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$0 \$3,345,000 \$30,000 \$0 \$50,000 \$1,087,125 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 20.00\% \\ 50.00\% \\ 20.00\% \\ 20.00\% \\ 10.00\% \\ 30.00\% \\ 30.00\% \\ 25.00\% \\ 25.00\% \\ 30.00\% \\ 25.00\% \\ 25.00\% \\ 25.00\% \end{array}$	\$0 \$0 \$4,014,000 \$36,000 \$0 \$55,000 \$1,413,263 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
RIGHT OF WAY						\$0
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS ROW RESIDENTIAL AREA ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$8 \$10 \$14 \$16 \$1	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

TOTAL	CONSTRU	CTION	COST
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\$12,251,853 \$13,464,786

	SACRAMENTO SUBDIVISION		Rev1 3/2/2020	Rev 2	DATE Rev 3	Rev 4	
SE-S3	MIDTOWN STATION						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMENT
	CIVIL WORKS						\$9,051,268
8500 4000 1 1 1100	CLEAR & GRUB LIGHT CLEAR & GRUB HEAVY DEMOLITION EARTHWORK COMMON EARTHWORK (EXCAVATION ROCK) EMBANKMENT BORROW REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580 STRUCTURE EXCAVATION RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL) SOIL NAIL WALLS MSE WALL ROADWAY SOUND WALL BOX CULVERT DRAINAGE (DIA-INCH-FOOT) DRAINAGE (DIA-INCH-FOOT) DRAINAGE (DIA-INCH-FOOT) IMPORTED BORROW ROADWAY ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY ASPHALT CONCRETE ROADWAY SIGNALLED STREET TRAFFIC CONTROL MODIFIED TRAFFIC SIGNAL STREET LIGHTING TRAFFIC CONTROL MINOR CONCRETE K RAIL TEMPORARY IN UPRR BIKE PATH STATION AREA MITIGATION PERMANENT FENCING VEHICULAR FENCE GATES SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY UNURR BIKE PATH STATION AREA MITIGATION PERMANENT FENCING VEHICULAR FENCE GATES SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY UNURR BIKE PATH STATION AREA MITIGATION PERMANENT FENCING VEHICULAR FENCE GATES SILT FENCE and ORANGE FENCE EROSION CONTROL TEMPORARY UTILITY RELOCATIONS DEVELOP PERMANENT UTILITY RELOCATIONS DEVELOP PERMANENT WATER SUPPLY YARD LIGHTING	AC AC SCY FCF FCF FCF FCF FCF FCF FCF FCY FCF FCF	\$2,500 \$5,000 \$8 \$25 \$50 \$100 \$400 \$100 \$400 \$1000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$100,000 \$4,500 \$100,000 \$4,500 \$4,500 \$100,000 \$100,0000\$100,0000\$100,0000\$100,0000\$100,0000\$100,0000\$10	\$5,000 \$68,000 \$100,000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$	$\begin{array}{c} 40.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 25.00\%\\ 25.00\%\\ 20.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 30.00\%\\ 40.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 20.00\%\\ 20.00\%\\ 30.00\%\\$	\$7,000 \$88,400 \$130,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
	TRACK WORK						\$2,060,255
3 485 755 170 1	REMOVE EXISTING TRACK REMOVE EXISTING TURNOUTS SHIFT EXISTING TRACK UPGRADE EXISTING TRACK TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC) TRACK PANELS CROSSOVER No.15 CROSSOVER No.20 TURNOUT (#7) TURNOUT (#8) TURNOUT (#8) TURNOUT (#10) TURNOUT (#10) TURNOUT (#14) TURNOUT (#15) TURNOUT (#24) DIAMOND CROSSING DERAIL BUMPING POST UPGRADE MAINTRACK TO CLASS 6	TF EACH TF TF TF TF EACH EACH EACH EACH EACH EACH EACH EACH	\$40 \$25,000 \$100 \$300 \$500 \$450 \$75 \$800,000 \$1,000,000 \$210,000 \$220,000 \$220,000 \$220,000 \$250,000 \$3350,000 \$450,000 \$450,000 \$100,000 \$25,000 \$100,000 \$100,000	\$19,400 \$75,000 \$377,500 \$145,500 \$127,500 \$0 \$0 \$0 \$250,000 \$0 \$800,000 \$0 \$800,000 \$0 \$800,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 20.00\%\\ 10.00\%\\ 20.00\%\\ 25.00\%\\ 25.00\%\\ 25.00\%\\ 20.00\%\\ 30.00\%\\ 20.00\%\\ 10.00\%\\ 10.00\%\\ 10.00\%\\ 10.00\%\\ 10.00\%\\ 10.00\%\\ 10.00\%\\ 10.00\%\\ 10.00\%\\ 10.00\%\\ 30.00\%\\ 30.00\%\\ \end{array}$	\$23,280 \$82,500 \$174,600 \$471,875 \$0 \$153,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
	SIGNAL WORK						\$1,428,000
	PEDESTRIAN GATES & SIGNALS CANTILEVER SIGNAL DOG HOUSE (Signal House) NEW ELECTRIC SERVICE	EACH EACH EACH EACH	\$100,000 \$200,000 \$250,000 \$20,000	\$0 \$0 \$500,000 \$40,000	20.00% 20.00% 20.00%	\$0 \$0 \$600,000 \$48,000	

NEW INTERMEDIATE SIGNALS SINGLE TRACK NEW INTERMEDIATE SIGNALS DOUBLE TRACK 2 NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH EACH MILE	\$150,000 \$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$650,000 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$780,000 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF LF CY	\$200 \$400 \$500 \$400 \$500 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 30.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$4,027,338
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION 12075 STATION PLATFORM STRUCTURES NEW 600 STATION CANOPY STATION PLATFORM STRUCTURES UPGRADE 1 STATION PRIMARY ELECTRICAL SERVICE 12075 STATION AMENITIES INSPECTION PIT PARKING LOTS PARKING STRUCTURES BUS LANE AND UNLOADING PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH SF SF EACH SF SPACES SPACES SPACES SPACES EACH EACH	\$13,000,000 \$200 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$225 \$200 \$450,000 \$300,000	\$0 \$0 \$2,415,000 \$45,000 \$50,000 \$784,875 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	$\begin{array}{c} 20.00\% \\ 50.00\% \\ 20.00\% \\ 20.00\% \\ 10.00\% \\ 30.00\% \\ 30.00\% \\ 25.00\% \\ 25.00\% \\ 30.00\% \\ 25.00\% \\ 25.00\% \\ 25.00\% \\ 25.00\% \end{array}$	\$0 \$0 \$2,898,000 \$54,000 \$55,000 \$1,020,338 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
RIGHT OF WAY						\$1,200,000
ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS ROW PAVED AREAS 120000 LEASE PURCHASE FOR BIKE PATH IN UPRR ROW ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$8 \$8 \$14 \$16 \$1	\$0 \$0 \$0 \$960,000 \$0 \$0 \$0 \$0	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$0 \$0 \$0 \$0 \$1,200,000 \$0 \$0 \$0	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS		••••	• -		••	\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	÷

\$17,766,861

\$19,525,780

	SACRAMENTO SUBDIVISION				DATE		
			Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-S5	OLD NORTH SACRAMENTO STATION		0/2/2020				
Estimate							SUB TOTAL
Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	WORK ELEMENT
	CIVIL WORKS						\$4,030,492
	1 CLEAR & GRUB LIGHT	AC	\$2,500	\$2,500	40.00%	\$3,500	
15500	CLEAR & GRUB HEAVY 00 DEMOLITION	AC SF	\$5,000 \$8	\$0 \$1,240,000	30.00% 30.00%	\$0 \$1,612,000	
	50 EARTHWORK COMMON	BCY	\$25	\$196,250	30.00%	\$255,125	
2350	EARTHWORK (EXCAVATION ROCK) 00 EMBANKMENT	BCY FCY	\$50 \$10	\$0 \$235,000	30.00% 30.00%	\$0 \$305,500	
	50 BORROW	FCY	\$25	\$391,250	30.00%	\$508,625	
	REMOVE HOV LANE CONTROLS SYSTEM RECONSTRUCT FREEWAY LANE 580	LF SF	\$400 \$100	\$0 \$0	30.00% 50.00%	\$0 \$0	
	STRUCTURE EXCAVATION	CY	\$40	\$0	25.00%	\$0	
1680	00 RETAINING WALLS (0 TO 10 FEET TALL) RETAINING WALLS (10 TO 20 FEET TALL)	SF SF	\$35 \$60	\$588,000 \$0	20.00% 30.00%	\$705,600 \$0	
	SOIL NAIL WALLS	SF	\$70	\$0	30.00%	\$0	
	MSE WALL ROADWAY SOUND WALL	SF LF	\$55 \$90	\$0 \$0	25.00% 50.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0 \$0	30.00%	\$0	
20/	BOX CULVERT 40 DRAINAGE (DIA-INCH-FOOT)	CY LF	\$1,000 \$12	\$0 \$35,284	30.00% 40.00%	\$0 \$49,397	
207	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$00,20 \$0	40.00%	\$0	
1050		CY SF	\$25	\$0 \$337.500	25.00%	\$0 \$421.875	
1350	00 ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	CY	\$25 \$45	500, 200 \$0	25.00% 25.00%	\$421,875 \$0	
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0	25.00%	\$0	
	CONCRETE PAVEMENT GUARD RAIL ROADWAY	CY LF	\$210 \$30	\$0 \$0	20.00% 25.00%	\$0 \$0	
	ASPHALT DIKES ROADWAY	LF	\$4	\$0	25.00%	\$0	
	STREET RESTORATIONS SIGNALLED STREET TRAFFIC CONTROL	SF EACH	\$15 \$300,000	\$0 \$0	40.00% 20.00%	\$0 \$0	
	MODIFIED TRAFFIC SIGNAL	EACH	\$100,000	\$0	20.00%	\$0	
	STREET LIGHTING TRAFFIC CONTROL	EACH DAYS	\$4,500 \$1,200	\$0 \$0	20.00% 50.00%	\$0 \$0	
	MINOR CONCRETE	CY	\$400	\$0	30.00%	\$0	
	K RAIL TEMPORARY CONCRETE BARRIER	LF LF	\$30 \$50	\$0 \$0	30.00% 30.00%	\$0 \$0	
	STRIPPING	LF	\$1	\$0	20.00%	\$0	
135	55 PERMANENT FENCING VEHICULAR FENCE GATES	LF EACH	\$35 \$2,000	\$47,425 \$0	20.00% 20.00%	\$56,910 \$0	
622	20 SILT FENCE and ORANGE FENCE	LF	\$15	\$93,300	20.00%	\$111,960	
	EROSION CONTROL TEMPORARY LANDSCAPING PERMANENT	SF SY	\$7 \$15	\$0 \$0	30.00% 30.00%	\$0 \$0	
	UTILITY RELOCATIONS	LF	\$30	\$0	30.00%	\$0	
	DEVELOP PERMANENT WATER SUPPLY YARD LIGHTING	LS EACH	\$100,000 \$2,500	\$0 \$0	30.00% 20.00%	\$0 \$0	
	TRACK WORK						\$0
	REMOVE EXISTING TRACK	TF	\$40	\$0	20.00%	\$0	ψŪ
	REMOVE EXISTING TURNOUTS	EACH	\$25,000	\$0	10.00%	\$0	
	SHIFT EXISTING TRACK UPGRADE EXISTING TRACK	TF TF	\$100 \$300	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST)	TF	\$500	\$0	25.00%	\$0	
	TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST) GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF TF	\$450 \$750	\$0 \$0	25.00% 20.00%	\$0 \$0	
	TRACK PANELS	SF	\$75	\$0	30.00%	\$0	
	CROSSOVER No.15 CROSSOVER No.20	EACH EACH	\$800,000 \$1,000,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TURNOUT (#7)	EACH	\$200,000	\$0	10.00%	\$0	
	TURNOUT (#8) TURNOUT (#9)	EACH EACH	\$210,000 \$220,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#10)	EACH	\$250,000	\$0	10.00%	\$0	
	TURNOUT (#14) TURNOUT (#15)	EACH EACH	\$325,000 \$350,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#20)	EACH	\$400,000	\$0 \$0	10.00%	\$0	
	TURNOUT (#24) DIAMOND CROSSING	EACH EACH	\$450,000 \$500,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	DERAIL	EACH	\$100,000	\$0	10.00%	\$0	
	BUMPING POST UPGRADE MAINTRACK TO CLASS 6	EACH TF	\$25,000 \$100	\$0 \$0	20.00% 30.00%	\$0 \$0	
	SIGNAL WORK						\$240,000
	2 PEDESTRIAN GATES & SIGNALS	EACH	\$100,000	\$200,000	20.00%	\$240,000	
	CANTILEVER SIGNAL DOG HOUSE (Signal House)	EACH EACH	\$200,000 \$250,000	\$0 \$0	20.00% 20.00%	\$0 \$0	
	NEW ELECTRIC SERVICE	EACH	\$20,000	\$0	20.00%	\$0	
	NEW INTERMEDIATE SIGNALS SINGLE TRACK	EACH	\$150,000	\$0	20.00%	\$0	•

NEW INTERMEDIATE SIGNALS DOUBLE TRACK NEW TURNOUT SIGNAL NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH MILE	\$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0	
BRIDGE STRUCTURES						\$1,950,000
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL 1 PEDESTRIAN TUNNEL ACCESS STRUCTURE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF EA LF CY	\$200 \$400 \$500 \$400 \$500 \$550 \$1,500,000 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,500,000 \$0 \$0	50.00% 30.00% 30.00% 50.00% 30.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,950,000 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$10,635,195
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION 27150 STATION PLATFORM STRUCTURES NEW 800 STATION CANOPY STATION PLATFORM STRUCTURES UPGRADE 1 STATION PRIMARY ELECTRICAL SERVICE 27150 STATION AMENITIES INSPECTION PIT 252 PARKING LOTS PARKING STRUCTURES 22000 BUS LANE AND UNLOADING 252 PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SF SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$22,000 \$22,000 \$22,000 \$22,000 \$22,000 \$22,000 \$20,000	\$0 \$5,430,000 \$60,000 \$50,000 \$1,764,750 \$0 \$756,000 \$550,000 \$550,400 \$0 \$0 \$0	$\begin{array}{c} 20.00\% \\ 50.00\% \\ 20.00\% \\ 20.00\% \\ 20.00\% \\ 30.00\% \\ 30.00\% \\ 25.00\% \\ 25.00\% \\ 25.00\% \\ 30.00\% \\ 25.00\% \\ 25.00\% \\ 25.00\% \end{array}$	\$0 \$0 \$6,516,000 \$72,000 \$55,000 \$2,294,175 \$0 \$945,000 \$687,500 \$665,520 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
RIGHT OF WAY						\$4,694,125
53700 ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS 142760 ROW PAVED AREAS ROW RESIDENTIAL AREA 57030 ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA 2000000 BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$214,800 \$0 \$1,142,080 \$798,420 \$0 \$2,000,000	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$268,500 \$0 \$1,427,600 \$0 \$998,025 \$0 \$2,000,000	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	
TOTAL CONSTRUCTION COST						\$21,549,812

\$23,683,243

	SACRAMENTO SUBDIVISION				DATE		
			Rev1 3/2/2020	Rev 2	Rev 3	Rev 4	
SE-S6	NATOMAS / AIRPORT STATION						
Estimate Quantity	DESCRIPTION	UNITS	UNIT COSTS	BASE COST	CONTINGENCY	TOTAL PRICE	SUB TOTAL WORK ELEMEN
Quantity	CIVIL WORKS						\$2,659,048
	4 CLEAR & GRUB LIGHT	AC	\$2,500	\$10,000	40.00%	\$14,000	
	CLEAR & GRUB HEAVY	AC	\$5,000	\$0	30.00%	\$0	
	0 DEMOLITION 0 EARTHWORK COMMON	SF BCY	\$8 \$25	\$1,440,000 \$25,000	30.00% 30.00%	\$1,872,000 \$32,500	
100	EARTHWORK (EXCAVATION ROCK)	BCY	\$50	¢20,000 \$0	30.00%	\$0 \$0	
	0 EMBANKMENT 0 BORROW	FCY FCY	\$10 \$25	\$90,000 \$200,000	30.00% 30.00%	\$117,000 \$260,000	
800	REMOVE HOV LANE CONTROLS SYSTEM	LF	\$400	\$200,000 \$0	30.00%	\$200,000	
	RECONSTRUCT FREEWAY LANE 580	SF	\$100	\$0	50.00%	\$0	
	STRUCTURE EXCAVATION RETAINING WALLS (0 TO 10 FEET TALL)	CY SF	\$40 \$35	\$0 \$0	25.00% 20.00%	\$0 \$0	
	RETAINING WALLS (10 TO 20 FEET TALL)	SF	\$60	\$0	30.00%	\$0	
	SOIL NAIL WALLS	SF	\$70 \$55	\$0 \$0	30.00%	\$0 ©0	
	MSE WALL ROADWAY SOUND WALL	SF LF	\$55 \$90	\$0 \$0	25.00% 50.00%	\$0 \$0	
	BOX CULVERT	CY	\$1,000	\$0	30.00%	\$0	
1176	BOX CULVERT 1 DRAINAGE (DIA-INCH-FOOT)	CY LF	\$1,000 \$12	\$0 \$141,134	30.00% 40.00%	\$0 \$197,588	
1170	DRAINAGE (DIA-INCH-FOOT)	LF	\$12	\$141,134 \$0	40.00%	\$197,588 \$0	
	IMPORTED BORROW ROADWAY	CY	\$25	\$0	25.00%	\$0	
	ROADWAY CONSTRUCTION (BASE, PAVE, FINISHES) AGGREGATE BASE ROADWAY	SF CY	\$25 \$45	\$0 \$0	25.00% 25.00%	\$0 \$0	
	ASPHALT CONCRETE ROADWAY	TONS	\$65	\$0 \$0	25.00%	\$0 \$0	
	CONCRETE PAVEMENT	CY	\$210	\$0	20.00%	\$0	
	GUARD RAIL ROADWAY ASPHALT DIKES ROADWAY	LF LF	\$30 \$4	\$0 \$0	25.00% 25.00%	\$0 \$0	
	STREET RESTORATIONS	SF	\$4 \$15	\$0 \$0	40.00%	\$0 \$0	
	SIGNALLED STREET TRAFFIC CONTROL	EACH	\$300,000	\$0	20.00%	\$0	
	MODIFIED TRAFFIC SIGNAL STREET LIGHTING	EACH EACH	\$100,000 \$4,500	\$0 \$0	20.00% 20.00%	\$0 \$0	
	TRAFFIC CONTROL	DAYS	\$1,200	\$0 \$0	50.00%	\$0 \$0	
	MINOR CONCRETE	CY	\$400	\$0	30.00%	\$0	
	K RAIL TEMPORARY CONCRETE BARRIER	LF LF	\$30 \$50	\$0 \$0	30.00% 30.00%	\$0 \$0	
	STRIPPING	LF	\$1	\$0	20.00%	\$0	
120	0 PERMANENT FENCING VEHICULAR FENCE GATES	LF EACH	\$35 \$2,000	\$42,000	20.00% 20.00%	\$50,400	
642	0 SILT FENCE and ORANGE FENCE	LF	\$2,000 \$15	\$0 \$96,300	20.00%	\$0 \$115,560	
	EROSION CONTROL TEMPORARY	SF	\$7	\$0	30.00%	\$0	
	LANDSCAPING PERMANENT UTILITY RELOCATIONS	SY LF	\$15 \$30	\$0 \$0	30.00% 30.00%	\$0 \$0	
	DEVELOP PERMANENT WATER SUPPLY	LS	\$100,000	\$0 \$0	30.00%	\$0 \$0	
	YARD LIGHTING	EACH	\$2,500	\$0	20.00%	\$0	
	TRACK WORK						\$6,739,2
40	0 REMOVE EXISTING TRACK REMOVE EXISTING TURNOUTS	TF EACH	\$40 \$25,000	\$16,000 \$0	20.00% 10.00%	\$19,200 \$0	
	SHIFT EXISTING TRACK	TF	\$25,000	\$0 \$0	20.00%	\$0 \$0	
	UPGRADE EXISTING TRACK	TF	\$300	\$0	20.00%	\$0	
668	0 TRACK (INCL RAIL, CONCRETE TIES, BALLAST & SUBBALLAST) TRACK (INCL RAIL, WOOD TIES, BALLAST & SUBBALLAST)	TF TF	\$500 \$450	\$3,340,000 \$0	25.00% 25.00%	\$4,175,000 \$0	
5	0 GRADE CROSSING TRACK COMPLETE (T+T+B+SB+P+AC+TC)	TF	\$750	\$37,500	20.00%	\$45,000	
	TRACK PANELS	SF	\$75	\$0	30.00%	\$0	
	1 CROSSOVER No.15 CROSSOVER No.20	EACH EACH	\$800,000 \$1,000,000	800,000\$\$ \$0	20.00% 20.00%	\$960,000 \$0	
	TURNOUT (#7)	EACH	\$200,000	\$0	10.00%	\$0	
	TURNOUT (#8) TURNOUT (#9)	EACH EACH	\$210,000 \$220,000	\$0 \$0	10.00% 10.00%	\$0 \$0	
	TURNOUT (#10)	EACH	\$250,000	\$0 \$0	10.00%	\$0 \$0	
	TURNOUT (#14)	EACH	\$325,000	\$0	10.00%	\$0	
	4 TURNOUT (#15) TURNOUT (#20)	EACH EACH	\$350,000 \$400,000	\$1,400,000 \$0	10.00% 10.00%	\$1,540,000 \$0	
	TURNOUT (#24)	EACH	\$450,000	\$0 \$0	10.00%	\$0 \$0	
	DIAMOND CROSSING	EACH	\$500,000	\$0	10.00%	\$0	
	DERAIL BUMPING POST	EACH EACH	\$100,000 \$25,000	\$0 \$0	10.00% 20.00%	\$0 \$0	
	UPGRADE MAINTRACK TO CLASS 6	TF	\$100	\$0	30.00%	\$0	
	SIGNAL WORK						\$3,528,0
		EACH	\$100,000	\$0	20.00%	\$0	
	PEDESTRIAN GATES & SIGNALS						
	1 CANTILEVER SIGNAL	EACH	\$200,000	\$200,000 \$500,000	20.00%	\$240,000 \$600,000	
:				\$200,000 \$500,000 \$40,000	20.00%	\$240,000 \$600,000 \$48,000	

NEW INTERMEDIATE SIGNALS DOUBLE TRACK 4 NEW TURNOUT SIGNAL 1 NEW CROSSOVER SIGNALLING NEW GRADE CROSSING SIGNALS 1 NEW CROSSING GATES & SIGNALS UPGRADE SIGNALS TO CLASS 6	EACH EACH EACH EACH EACH MILE	\$300,000 \$325,000 \$500,000 \$250,000 \$400,000 \$200,000	\$0 \$1,300,000 \$500,000 \$0 \$400,000 \$0	20.00% 20.00% 20.00% 20.00% 30.00%	\$0 \$1,560,000 \$600,000 \$0 \$480,000 \$0	
BRIDGE STRUCTURES						\$0
BRIDGE REMOVAL RAILROAD SHORT BRIDGE CONCRETE RAILROAD AERIAL GUIDEWAY RAILROAD BRIDGE STEEL HIGHWAY BRIDGE CONCRETE HIGHWAY BRIDGE STEEL. TRESTLE BRIDGE STEEL PEDESTRIAN BRIDGE BARRIER RAIL PERMANENT UNDERPASS STRUCTURE	SF SF SF SF SF SF LF CY	\$200 \$400 \$500 \$500 \$500 \$550 \$400 \$100 \$750	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50.00% 30.00% 30.00% 30.00% 30.00% 30.00% 30.00% 25.00% 25.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAIN CONTROL						\$0
POSITIVE TRAIN CONTROL TRAIN CONTROL SYSTEM TRAIN CONTROL CABLING TRAIN CONTROL DIGITAL CBOSS COMPUTER TRAFFIC MANAGEMENT COMMERCIAL ELECTRICAL SERVICE LINE UTILITIES WITHIN TRACKWAY LINE UTILITIES FIBER OPTIC PARALLEL TO TRACKS	MILE EACH LF EACH LS EACH LF EACH LF	\$2,000,000 \$200,000 \$12 \$500,000 \$1,500,000 \$50,000 \$30 \$2,500 \$50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	25.00% 30.00% 40.00% 30.00% 25.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
STATIONS						\$6,342,513
TYPE A SMALL INTERMODEL STATION TYPE K LARGE INTERMODEL STATION 14325 STATION PLATFORM STRUCTURES NEW 600 STATION CANOPY STATION PLATFORM STRUCTURES UPGRADE 1 STATION PRIMARY ELECTRICAL SERVICE 14325 STATION AMENITIES INSPECTION PIT 255 PARKING LOTS PARKING STRUCTURES 18000 BUS LANE AND UNLOADING 255 PARKING LOT LIGHTING ELEVATORS ESCALATOR	EACH EACH SF SF EACH SF SPACES SPACES SPACES SPACES EACH EACH	\$13,000,000 \$32,000,000 \$75 \$300 \$50,000 \$65 \$90 \$3,000 \$20,000 \$25 \$200 \$450,000 \$300,000	\$0 \$2,865,000 \$45,000 \$50,000 \$931,125 \$0 \$765,000 \$450,000 \$51,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	20.00% 50.00% 20.00% 20.00% 10.00% 30.00% 25.00% 25.00% 25.00% 25.00% 25.00%	\$0 \$3,438,000 \$54,000 \$55,000 \$1,210,463 \$0 \$956,250 \$0 \$562,500 \$66,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	
RIGHT OF WAY						\$3,473,325
64340 ROW LAND ONLY ROW AGRICULTURAL ROW ORCHARDS 59950 ROW PAVED AREAS ROW RESIDENTIAL AREA 31550 ROW LIGHT INDUSTRIAL AREA ROW HEAVY INDUSTRIAL AREA 2000000 BUSINESS RELOCATIONS (Value of business, relocation,goodwill, legal,appraisal,etc.)	SF SF SF SF SF SF VALUE	\$4 \$5 \$6 \$10 \$14 \$16 \$1	\$257,360 \$0 \$479,600 \$0 \$441,700 \$0 \$2,000,000	25.00% 25.00% 25.00% 25.00% 25.00% 25.00% 0.00%	\$321,700 \$0 \$599,500 \$0 \$552,125 \$0 \$2,000,000	
TUNNEL CONSTRUCTION						\$0
TUNNELING CONSTRUCTION NEW SINGLE BORE (DIA) TUNNELING CONSTRUCTION NEW TWIN BORE (DIA) SINGLE BORE RESTORE (DIA) TWIN BORE RESTORE (DIA)	LF LF LF LF	\$12,000 \$12,000	\$0 \$0 \$0 \$0	30.00% 30.00% 30.00% 30.00%	\$0 \$0 \$0 \$0	
GENERAL SUPPORT ITEMS						\$0
BART INTERFACE CALTRANS INTERFACE WORK	DAYS DAYS	\$900 \$900	\$0 \$0	20.00% 20.00%	\$0 \$0	
ROLLING STOCK & CAPITAL INVESTMENTS						\$0
ROLLING STOCK DMU EQUIPMENT	EACH	\$8,000,000	\$0	0.00%	\$0	

\$22,742,086

\$24,993,552