

Preliminary Cost Estimate ©

EA: 04-0Q3100 PID: 418000070

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PID: 418000070

District-County-Route: 04-CC-680

PM: 14.7 - 24.5

Type of Estimate : Project Scope Summary Report

Program Code : 20.XX.400.100

Project Limits : 14.7/24.5: On I-680 from Oakvale Rd OC to Slightly north of Marina Vista Road

Project Description: I-680 Northbound Express Lane Completion Project

Scope : To complete the Interstate 680 (I-680) express lane network in Contra Costa County, California, to improve system continuity, congestion relief, and operations.

Alternative : Alternative # 2 Phase#1

SUMMARY OF PROJECT COST ESTIMATE

	<u>Current Year Cost</u>
TOTAL ROADWAY COST	\$ 86,172,100
TOTAL STRUCTURES COST	\$ 8,174,745
TOTAL ROADWAY CONTINGENCY	\$ 17,234,500
TOTAL STRUCTURE CONTINGENCY	\$ 1,857,897
SUBTOTAL CONSTRUCTION COST	<u>\$ 113,439,241</u>
TOTAL RIGHT OF WAY COST	<u>\$ 4,000,000</u>
TOTAL CAPITAL OUTLAY COSTS	\$ 117,440,000
PA/ED SUPPORT	\$ 17,310,000
PS&E SUPPORT	\$ 15,880,000
RIGHT OF WAY SUPPORT	\$ 1,100,000
CONSTRUCTION SUPPORT	<u>\$ 20,420,000</u>
TOTAL SUPPORT COST	\$ 54,710,000
SYSTEM INTERGRATION COST	<u>\$ 18,000,000 *</u>
TOTAL SYSTEM INTERGRATION COST	\$ 18,000,000 *

* - System Intergration Cost includes a 30% Contingency

TOTAL PROJECT COST	\$ 191,000,000
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I. ROADWAY ITEMS SUMMARY

	Section	Cost
1	Earthwork	\$ 7,911,300
2	Pavement Structural Section	\$ 13,894,000
3	Drainage	\$ 4,000,000
4	Specialty Items	\$ 19,590,200
5	Environmental	\$ 7,701,300
6	Traffic Items	\$ 8,052,200
7	Detours	\$ 500,000
8	Minor Items	\$ 6,164,900
9	Roadway Mobilization	\$ 6,781,400
10	Supplemental Work	\$ 1,835,100
11	State Furnished	\$ 2,031,300
12	Time-Related Overhead	\$ 7,710,400
13	Total Roadway Contingency	\$ 17,234,500
TOTAL ROADWAY ITEMS		\$ 103,406,600

SECTION 1: EARTHWORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
190101 Roadway Excavation	CY	61,770 x	78.00 = \$	4,818,060
190105 Roadway Excavation (Type Z-2) (Aerially Deposited Lead)	CY	5,830 x	372.00 = \$	2,168,760
152320 Lead Compliance Plan	LS	x	= \$	-
194001 Ditch Excavation	CY	x	= \$	-
19801X Imported Borrow	CY	38,070 x	20.00 = \$	761,400
192037 Structure Excavation (Retaining Wall)	CY	- x	28.00 = \$	-
192048 Structure Excavation, Retaining Wall (Sound Wall)	CY	- x	35.00 = \$	-
192049 Structure Excavation (Soldier Pile Wall)	CY	- x	150.00 = \$	-
192055 Structure Excavation (Soil Nail Wall)	CY	- x	45.00 = \$	-
192060 Structure Excavation (Ground Anchor Wall)	CY	- x	102.00 = \$	-
193013 Structure Backfill (Retaining Wall)	CY	- x	122.00 = \$	-
193020 Structure Backfill, Retaining Wall (Sound Wall)	CY	- x	54.00 = \$	-
193027 Structure Backfill (Ground Anchor Wall)	CY	- x	275.00 = \$	-
193028 Structure Backfill (Soil Nail Wall)	CY	- x	32.00 = \$	-
193029 Structure Backfill (Soldier Pile Wall)	CY	- x	197.00 = \$	-
193116 Concrete Backfill (Soldier Pile Wall)	CY	- x	290.00 = \$	-
193031 Pervious Backfill Material (Retaining Wall)	CY	x	= \$	-
170103 Clearing & Grubbing	LS	1 x	120,200.00 = \$	120,200
100100 Develop Water Supply	LS	1 x	42,800.00 = \$	42,800
19801X Imported Borrow	CY/TON	x	= \$	-
210130 Duff	ACRE	x	= \$	-
XXXXXX Some Item	Unit	x	= \$	-

TOTAL EARTHWORK SECTION ITEMS	\$ 7,911,300
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SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code	Unit	Quantity	Unit Price (\$)	Cost
401050 Jointed Plain Concrete Pavement	CY	4,340 x	487.00 = \$	2,113,580
400050 Continuously Reinforced Concrete Pavement	CY	- x	450.00 = \$	-
404092 Seal Pavement Joint	LF	x	= \$	-
404093 Seal Isolation Joint	LF	x	= \$	-
413117 Seal Concrete Pavement Joint (Silicone)	LF	x	= \$	-
413118 Seal Pavement Joint (Asphalt Rubber)	LF	x	= \$	-
280010 Rapid Strength Concrete Base	CY	x	= \$	-
410095 Dowel Bar (Drill and Bond)	EA	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	33,620 x	142.00 = \$	4,774,040
390137 Rubberized Hot Mix Asphalt (Gap Graded)	TON	7,030 x	224.00 = \$	1,574,720
390402 Rubberized Hot Mix Asphalt-Open Graded (Open Graded Friction Cou	TON	2,090 x	193.00 = \$	403,370
39300X Geosynthetic Pavement Interlayer (Type X)	SQYD	x	= \$	-
398200 Cold Plane Asphalt Concrete Pavement	SQYD	175,736 x	7.00 = \$	1,230,152
260203 Class 2 Aggregate Base	CY	31,090 x	90.00 = \$	2,798,100
290201 Asphalt Treated Permeable Base	CY	1,660 x	230.00 = \$	381,800
250201 Class 2 Aggregate Subbase	CY	4,923 x	63.00 = \$	310,149
374002 Asphaltic Emulsion (Fog Seal Coat)	TON	x	= \$	-
397005 Tack Coat	TON	x	= \$	-
377501 Slurry Seal	TON	x	= \$	-
3750XX Screenings (Type XX)	TON	x	= \$	-
374492 Asphaltic Emulsion (Polymer Modified)	TON	x	= \$	-
370001 Sand Cover (Seal)	TON	x	= \$	-
731530 Minor Concrete (Textured Paving)	CY	x	= \$	-
731502 Minor Concrete (Miscellaneous Construction)	CY	x	= \$	-
39407X Place Hot Mix Asphalt Dike (Type X)	LF	x	= \$	-
150771 Remove Asphalt Concrete Dike	LF	x	= \$	-
420201 Grind Existing Concrete Pavement	SQYD	x	= \$	-
150860 Remove Base and Surfacing	CY	x	= \$	-
390095 Replace Asphalt Concrete Surfacing	CY	x	= \$	-
15312X Remove Concrete	LF/CY/LS	x	= \$	-
394090 Place Hot Mix Asphalt (Miscellaneous Area)	SQYD	x	= \$	-
153103 Cold Plane Asphalt Concrete Pavement	SQYD	x	= \$	-
39405X Shoulder Rumble Strip (HMA, X-In Indentations)	STA	x	= \$	-
413113 Repair Spalled Joints, Polyester Grout	SQYD	x	= \$	-
420102 Groove Existing Concrete Pavement	SQYD	x	= \$	-
390136 Minor Hot Mix Asphalt	TON	x	= \$	-
394095 Roadside Paving (Miscellaneous Areas)	SQYD	x	= \$	-
280000 Lean Concrete Base	CY	x	149.00 = \$	-
682049 Class 3 Permeable Material	CY	2,000 x	92 = \$	184,000
66393 Hot Mix Asphalt Smoothness Incentive (LS)	LS	1 x	124,000.00 = \$	124,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS	\$ 13,894,000
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SECTION 3: DRAINAGE

Item code	Unit	Quantity	Unit Price (\$)	Cost
15080X Remove Culvert	EA/LF	x	= \$	-
150820 Modify Inlet	EA	x	= \$	-
155232 Sand Backfill	CY	x	= \$	-
15020X Abandon Culvert	EA/LF	x	= \$	-
152430 Adjust Inlet	LF	x	= \$	-
155003 Cap Inlet	EA	x	= \$	-
510501 Minor Concrete	CY	x	= \$	-
510502 Minor Concrete (Minor Structure)	CY	x	= \$	-
5105XX Minor Concrete (Type XX)	CY	x	= \$	-
620XXX XX" Alternative Pipe Culvert (Type X)	LF	x	= \$	-
6411XX XX" Plastic Pipe	LF	x	= \$	-
65XXXX XX" Reinforced Concrete Pipe (Type X)	LF	x	= \$	-
6650XX XX" Corrugated Steel Pipe (0.XXX" Thick)	LF	x	= \$	-
68XXXX XX" Plastic Pipe (Edge Drain)	LF	x	= \$	-
69011X XX" Corrugated Steel Pipe Downdrain (0.XXX" Thick)	LF	x	= \$	-
70321X XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF	x	= \$	-
70XXXX XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF	x	= \$	-
7050XX XX" Steel Flared End Section	EA	x	= \$	-
703233 Grated Line Drain	LF	x	= \$	-
72XXXX Rock Slope Protection (Type and Method)	CY/TON	x	= \$	-
72901X Rock Slope Protection Fabric (Class X)	SQYD	x	= \$	-
721420 Concrete (Ditch Lining)	CY	x	= \$	-
721430 Concrete (Channel Lining)	CY	x	= \$	-
750001 Miscellaneous Iron and Steel	LB	x	= \$	-
XXXXXX Drainage	LS	1 x	4,000,000 = \$	4,000,000
XXXXXX Additional Drainage				
TOTAL DRAINAGE ITEMS				\$ 4,000,000

SECTION 4: SPECIALTY ITEMS

Item code	Unit	Quantity	Unit Price (\$)	Cost
080050 Progress Schedule (Critical Path Method)	LS	x	= \$	-
582001 Sound Wall (Masonry Block)	SQFT	86,695 x	47.00 = \$	4,074,665
510530 Minor Concrete (Wall)	CY	x	= \$	-
730045 Minor Concrete (Gutter) (CY)	CY	-	492.00 = \$	-
600051 Remove Sound Wall	LF	1,234 x	93.50 = \$	115,379
070030 Lead Compliance Plan	LS	x	= \$	-
141120 Treated Wood Waste	LB	x	= \$	-
153221 Remove Concrete Barrier	LF	x	= \$	-
150662 Remove Metal Beam Guard Railing	LF	x	= \$	-
150668 Remove Flared End Section	EA	x	= \$	-
8000XX Chain Link Fence (Type XX)	LF	x	= \$	-
80XXXX XX" Chain Link Gate (Type CL-6)	EA	x	= \$	-
832001 Metal Beam Guard Railing	LF	x	= \$	-
839301 Single Thrie Beam Barrier	LF	x	= \$	-
839310 Double Thrie Beam Barrier	LF	x	= \$	-
839521 Cable Railing	LF	927 x	40.00 = \$	37,080
8395XX Terminal System (Type CAT)	EA	x	= \$	-
839585 Alternative Flared Terminal System	EA	x	= \$	-
839584 Alternative In-line Terminal System	EA	x	= \$	-
839640 Concrete Barrier (Type 60M)	LF	19,923 x	77.00 = \$	1,534,071
839642 Concrete Barrier (Type 60MC)	LF	2,258 x	214.00 = \$	483,212
839643 Concrete Barrier (Type 60MD)	LF	2,471 x	109.00 = \$	269,339
839741 Concrete Barrier (Type 836)	LF	3,791 x	126.00 = \$	477,666
839746 Concrete Barrier (Type 842)	LF	5,467 x	190.00 = \$	1,038,730
4906XX CIDH Concrete Piling (Insert Diameter)	LF	x	= \$	-
839XXX Crash Cushion (Insert Type)	EA	x	= \$	-
83XXXX Concrete Barrier (Insert Type)	LF	x	= \$	-
520101 Bar Reinforcing Steel	LB	- x	0.93 = \$	-
520103 Bar Reinforced Steel (Retaining Wall)	LB	- x	1.28 = \$	-
520114 Bar Reinforcing Steel, Retaining Wall (Sound Wall)	LB	- x	1.02 = \$	-
510059 Structure Concrete, Retaining Wall (Sound Wall)	CY	- x	685.00 = \$	-
510060 Structural Concrete, Retaining Wall	CY	- x	691.00 = \$	-
510072 Structural Concrete, Barrier Slab	CY	- x	786.00 = \$	-
530200 Structural Shotcrete	CY	- x	800.00 = \$	-
XXXXXX Concrete Retaining Wall, Type 1 (Mod)	SQFT	1,949 x	133.52 = \$	260,230
513553 Retaining Wall (Masonry Wall)	SQFT	x	= \$	-
511035 Architectural Treatment	SQFT	77,474 x	8.00 = \$	619,792
598001 Anti-Graffiti Coating	SQFT	x	= \$	-
203070 Rock Stain	SQFT	x	= \$	-
5136XX Reinforced Concrete Crib Wall (Type X)	SQFT	x	= \$	-
83954X Transition Railing (Type X)	EA	x	= \$	-
780440 Prepare And Stain Concrete	SQFT	- x	4.00 = \$	-
839561 Rail Tensioning Assembly	EA	x	= \$	-
83958X End Anchor Assembly (Type X)	EA	x	= \$	-
460300 Soil Nail	LF	8,660 x	20.00 = \$	173,200
XXXXXX Soil Nail Wall	SQFT	11,977 x	77.40 = \$	927,020
490737 Drive Pile (Class 90)	EA	- x	1,003.00 = \$	-
490736 Furnish Piling (Class 90)	LF	- x	45.00 = \$	-
477020 Mechanically Stabilized Embankment	SQFT	65,497 x	72.00 = \$	4,715,784
490605 36" Cast-In-Drilled-Hole Concrete Piling	LF	- x	432.00 = \$	-
460210 Ground Anchor (Subhorizontal)	EA	- x	6,016.00 = \$	-
550203 Furnish Structural Steel (Bridge)	LB	- x	1.92 = \$	-
490400 24" Drilled Hole	LF	- x	167.00 = \$	-
4903XX Steel Soldier Pile (W18x119)	LF	- x	164.00 = \$	-
4903XX Steel Soldier Pile (W18x50)	LF	- x	41.00 = \$	-
575004 Timber Lagging	MFBM	- x	7,616.00 = \$	-
681132 Geocomposite Drain	SQFT	- x	9.67 = \$	-
5201XX Welded Headed Studs (3/4"x6")	EA	- x	60.00 = \$	-
490615 18" Cast-In-Drilled-Hole Concrete Piling	LF	3,200 x	1,520.00 = \$	4,864,000
XXXXXX Some Item	Unit	x	= \$	-
TOTAL SPECIALTY ITEMS				\$ 19,590,200

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
	LS	x	= \$	-
130670	Temporary Reinforced Silt Fence	LF	x = \$	-
141000	Temporary Fence (Type ESA)	LF	x = \$	-
<i>Subtotal Environmental Mitigation</i>				\$ -

5B - LANDSCAPE AND IRRIGATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
20XXXX	Highway Planting	LS 1 x	200,000 = \$	200,000
20XXXX	Irrigation System	LS 1 x	50,000 = \$	50,000
204099	Plant Establishment Work	LS x	= \$	-
204101	Extend Plant Establishment Work	LS x	= \$	-
20XXXX	Follow-up Landscape Project	LS x	= \$	-
150685	Remove Irrigation Facility	LS x	= \$	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS x	= \$	-
206400	Check and Test Existing Irrigation Facilities	LS x	= \$	-
21011X	Imported Topsoil (X)	CY/TON x	= \$	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	QFT/SQYD x	= \$	-
200122	Weed Germination	SQYD x	= \$	-
208304	Water Meter	EA x	= \$	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF x	= \$	-
20890X	Extend X" Conduit (Use for Extension of Irrigation x-overs)	LF x	= \$	-
<i>Subtotal Landscape and Irrigation</i>				\$ 250,000

5C - EROSION CONTROL

Item code	Unit	Quantity	Unit Price (\$)	Cost
210010	Move In/Move Out (Erosion Control)	EA x	= \$	-
210350	Fiber Rolls	LF x	= \$	-
210360	Compost Sock	LF x	= \$	-
2102XX	Rolled Erosion Control Product (X)	SQFT x	= \$	-
21025X	Bonded Fiber Matrix	QFT/ACRE x	= \$	-
210300	Hydromulch	SQFT x	= \$	-
210420	Straw	SQFT x	= \$	-
210430	Hydroseed	SQFT x	= \$	-
210600	Compost	SQFT x	= \$	-
210630	Incorporate Materials	SQFT x	= \$	-
2030XX	Erosion Control	LS 1 x	750,000 = \$	750,000
<i>Subtotal Erosion Control</i>				\$ 750,000

5D - NPDES

Item code	Unit	Quantity	Unit Price (\$)	Cost
130300	Prepare SWPPP	LS 1 x	10,005 = \$	10,005
130200	Prepare WPCP	LS x	= \$	-
130100	Job Site Management	LS 1 x	75,040 = \$	75,040
130330	Storm Water Annual Report	EA 2 x	2,000.00 = \$	4,000
130310	Rain Event Action Plan (REAP)	EA 46 x	500.00 = \$	23,000
130320	Storm Water Sampling and Analysis Day	EA 1 x	166,191 = \$	166,191
130520	Temporary Hydraulic Mulch	SQYD x	= \$	-
130550	Temporary Hydroseed	SQYD x	= \$	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA x	= \$	-
130640	Temporary Fiber Roll	LF x	= \$	-
820113	Treatment BMPs	LS 1 x	1,870,039.28 = \$	1,870,039
XXXXXX	Design Pollution Prevention (DPP) BMPs	LS 1 x	888,031.03 = \$	888,031
XXXXXX	Full Trash Control System BMPs	LS 1 x	684,887.00 = \$	684,887
XXXXXX	Hydromodification BMPs	LS 1 x	1,870,039.28 = \$	1,870,039
XXXXXX	Construction Site BMPs	LS 1 x	1,110,038.64 = \$	1,110,039
XXXXXX	Some Item	x	= \$	-
<i>Subtotal NPDES</i>				\$ 6,701,271

TOTAL ENVIRONMENTAL	\$ 7,701,300
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Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS x	= \$	-
066596	Additional Water Pollution Control**	LS 1 x	3,573 = \$	3,573
066597	Storm Water Sampling and Analysis***	LS 1 x	1,787 = \$	1,787
XXXXXX	Annual Construction General Permit fees	LS 1 x	1,881 = \$	1,881
<i>Subtotal Supplemental Work for NDPS</i>				\$ 7,241

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code	Unit	Quantity	Unit Price (\$)	Cost
860460 Lighting and Sign Illumination	LS	x	= \$	-
860201 Signal and Lighting	LS	x	= \$	-
860990 Closed Circuit Television System	LS	x	= \$	-
86110X Ramp Metering System (Location X)	LS	x	= \$	-
86070X Interconnection Conduit and Cable	LF/LS	x	= \$	-
560208 Furnish Sign Structure (Tabular)	LB	52,000	x 4.14	= \$ 215,280
560209 Install Sign Structure (Tabular)	LB	52,000	x 0.37	= \$ 19,240
560218 Furnish Sign Structure (Truss)	LB	151,000	x 3.67	= \$ 554,170
560219 Install Sign Structure (Truss)	LB	151,000	x 0.28	= \$ 42,280
498044 36" CIDHC Pile (Sign Foundation)	LF	20	x 1,372.00	= \$ 27,440
498048 48" CIDHC Pile (Sign Foundation)	LF	356	x 1,525.00	= \$ 542,900
498052 60" CIDHC Pile (Sign Foundation)	LF	176	x 1,469.00	= \$ 258,544
86080X Inductive Loop Detectors	EA/LS	x	= \$	-
8609XX Traffic Monitoring Station (Type X)	LS	x	= \$	-
150757 Remove Sign Structure	EA	11	x 4,700.00	= \$ 51,700
151581 Reconstruct Sign Structure	EA	x	= \$	-
152641 Modify Sign Structure	EA	x	= \$	-
860090 Maintain Existing Traffic Management System Ele	LS	x	= \$	-
86XXXX Fiber Optic Conduit System	LS	x	= \$	-
860461A Lighting and Electronic Tolling System	LS	1	x 2,724,659.15	= \$ 2,724,659
XXXXX Modifying Existing Electrical Systems	Unit	1	x 1,741,995.19	= \$ 1,741,995
<i>Subtotal Traffic Electrical</i>				\$ 6,178,208

6B - Traffic Signing and Striping

Item code	Unit	Quantity	Unit Price (\$)	Cost
566011 Roadside Sign - One Post	EA	x	= \$	-
566012 Roadside Sign - Two Post	EA	x	= \$	-
5602XX Furnish Sign	SQFT	x	= \$	-
568016 Install Sign Panel on Existing Frame	SQFT	x	= \$	-
150711 Remove Painted Traffic Stripe	LF	x	= \$	-
141101 Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF	x	= \$	-
150712 Remove Painted Pavement Marking	SQFT	x	= \$	-
150742 Remove Roadside Sign	EA	x	= \$	-
152320 Reset Roadside Sign	EA	x	= \$	-
152390 Relocate Roadside Sign	EA	x	= \$	-
82010X Delineator (Class X)	EA	x	= \$	-
840502 Thermoplastic Traffic Stripe (Enhanced Wet Night)	LF	x	= \$	-
846012 Thermoplastic Crosswalk and Pavement Marking	SQFT	x	= \$	-
120090 Construction Area Signs	LS	x	= \$	-
84XXXX Permanent Pavement Delineation	LS	x	= \$	-
820710 Furnish Laminated Panel Sign (1" Type A)	SQFT	4,050	x 27.00	= \$ 109,350
820870 Install Sign Overlay	SQFT	151	x 56.00	= \$ 8,456
<i>Subtotal Traffic Signing and Striping</i>				\$ 117,806

6C - Traffic Management Plan

Item code	Unit	Quantity	Unit Price (\$)	Cost
128652 Portable Changeable Message Signs	LS	1	x \$ 297,777	= \$ 297,777
<i>Subtotal Traffic Management Plan</i>				\$ 297,777

6C - Stage Construction and Traffic Handling

Item code	Unit	Quantity	Unit Price (\$)	Cost
120199 Traffic Plastic Drum	EA	x	= \$	-
120165 Channelizer	EA	300	x 35.00	= \$ 10,500
120120 Type III Barricade	EA	100	x 100.00	= \$ 10,000
129100 Temporary Crash Cushion Module	EA	60	x 200.00	= \$ 12,000
120100 Traffic Control System	LS	1	x 1,250,000.00	= \$ 1,250,000
129110 Temporary Crash Cushion	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	6,905.00	x 24.42	= \$ 168,620
4 Temporary Traffic Stripe	LF	7,240	x 1.00	= \$ 7,240
82010X Delineator (Class X)	EA	x	= \$	-
XXXXXX Traffic Handling	LS	x	= \$	-
<i>Subtotal Stage Construction and Traffic Handling</i>				\$ 1,458,360

TOTAL TRAFFIC ITEMS	\$ 8,052,200
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SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
190101 Roadway Excavation	CY	x	= \$	-
19801X Imported Borrow	CY/TON	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
26020X Class 2 Aggregate Base	TON/CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
130620 Temporary Drainage Inlet Protection	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
128601 Temporary Signal System	LS	x	= \$	-
120149 Temporary Pavement Marking (Paint)	SQFT	x	= \$	-
80010X Temporary Fence (Type X)	LF	x	= \$	-
XXXXXX Detour	LS	1	x 500,000 = \$	500,000

* Includes constructing, maintaining, and removal

TOTAL DETOURS	\$	500,000
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SUBTOTAL SECTIONS 1 through 7	\$	61,649,000
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SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items	2.0%	\$	1,232,980
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8B - Bike Path Items

Bike Path Items	4.0%	\$	2,465,960
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8C - Other Minor Items

Other Minor Items	4.0%	\$	2,465,960
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Total of Section 1-7	\$	61,649,000	x	10.0%	= \$	6,164,900
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TOTAL MINOR ITEMS	\$	6,164,900
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SECTIONS 9: ROADWAY MOBILIZATION

Item code	Unit	Quantity	Unit Price (\$)	Cost		
999990						
Total Section 1-8	\$	67,813,900	x	10%	= \$	6,781,390

TOTAL ROADWAY MOBILIZATION	\$	6,781,400
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SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066670 Payment Adjustments For Price Index Fluctuations	LS	1	x 35,000.00 = \$	35,000
066094 Value Analysis	LS	1	x 10,000.00 = \$	10,000
066070 Maintain Traffic	LS	1	x 30,000.00 = \$	30,000
066919 Dispute Resolution Board	LS	1	x 7,500.00 = \$	7,500
066921 Dispute Resolution Advisor	LS		x = \$	-
066015 Federal Trainee Program	LS		x = \$	-
066610 Partnering	LS	1	x 20,000.00 = \$	20,000
066204 Remove Rock and Debris	LS		x = \$	-
066222 Locate Existing Crossover	LS		= \$	-
066700 Additional Traffic Control	LS	1	x 30,000.00 = \$	30,000
XXXXXX Some Item	Unit		= \$	-

<i>Cost of NPDES Supplemental Work specified in Section 5D</i>	= \$	7,241
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Total Section 1-8	\$	67,813,900	2.5%	= \$	1,695,348
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TOTAL SUPPLEMENTAL WORK	\$	1,835,100
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SECTION 11: AGENCY FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
066105	Resident Engineers Office	LS	1	x	100,000.00	=	\$100,000
066063	Traffic Management Plan - Public Information	LS	1	x	25,000.00	=	\$25,000
066901	Water Expenses	LS		x		=	\$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	\$0
066841	Traffic Controller Assembly	LS		x		=	\$0
066840	Traffic Signal Controller Assembly	LS		x		=	\$0
066062	COZEEP Contract	LS	1	x	525,000.00	=	\$525,000
066838	Reflective Numbers and Edge Sealer	LS		x		=	\$0
066065	Tow Truck Service Patrol	LS		x		=	\$0
066916	Annual Construction General Permit Fee	LS		x		=	\$0
066860	Maintain Existing Electrical System	LS	1	x	25,000.00	=	\$25,000
XXXXXX	Some Item	Unit		x		=	\$0
		Total Section 1-8	\$ 67,813,900		2%	= \$	1,356,278
TOTAL STATE FURNISHED							\$2,031,300

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization \$77,103,383 (used to calculate TRO)
 Total Construction Cost \$88,494,341 (used to check if project is greater than \$5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) =

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
090100	Time-Related Overhead	WD	435	X	\$17,725	=	\$7,710,400
TOTAL TIME-RELATED OVERHEAD							\$7,710,400

SECTION 13: ROADWAY CONTINGENCY

Risk Amount from Risk Register		(for Known Risks)	0%		\$0
Additional or Residual Contingency		(for Unknown/Undefined Risks)	20%		\$17,234,420
Total Section 1-12	\$	86,172,100	x	<input type="text" value="20%"/>	= \$17,234,420
TOTAL CONTINGENCY*					\$17,234,500

II. STRUCTURE ITEMS

Bridge 1		Bridge 2			
DATE OF ESTIMATE	03/01/23		03/01/23		00/00/00
Bridge Name	Contra Costa Canal Undercrossing		Treat Blvd Overpass		XXXXXXXXXXXXXXXXXXXX
Bridge Number	28-0135		TBD		57-XXX
Structure Type	RC T-BEAM		CIP/PS BOX		XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	33 LF		41.5 LF		0 LF
Total Bridge Length (Feet)	132.5 LF		420 LF		0 LF
Total Area (Square Feet)	4373 SQFT		17430 SQFT		0 SQFT
Structure Depth (Feet)	2.5 LF		7.66 LF		0 LF
Footing Type (pile or spread)	Pile		Shaft		Pile
Cost Per Square Foot	\$315		\$347		\$0
COST OF EACH	\$1,378,480		\$6,053,106		\$0

Bridge 3					
DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Bridge Name	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0 LF		0 LF		0 LF
Total Bridge Length (Feet)	0 LF		0 LF		0 LF
Total Area (Square Feet)	0 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	0 LF		0 LF		0 LF
Footing Type (pile or spread)	Pile		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0		\$0		\$0
COST OF EACH	\$0		\$0		\$0

TOTAL COST OF BRIDGES	\$7,431,586
TOTAL COST OF BUILDINGS	\$0
STRUCTURES MOBILIZATION 10%	\$743,159
STRUCTURES CONTINGENCY* 25%	\$1,857,897
TOTAL COST OF STRUCTURES	\$10,032,641

Estimate Prepared By: _____
 XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way Data Sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill, Fees		\$	1,861,000
	A2) SB-1210		\$	10,000
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	6,000
H)	Environmental Review		\$	0
I)	Condemnation Settlements	<u>0%</u>	\$	0
J)	Design Appreciation Factor	<u>0%</u>	\$	0
K)	Utility Relocation (Construction Cost)		\$	\$ 2,123,000

L)	TOTAL RIGHT OF WAY ESTIMATE	\$4,000,000
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M)	TOTAL R/W ESTIMATE: Escalated	\$7,077,095
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N)	RIGHT OF WAY SUPPORT	\$515,125
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IV. SUPPORT COST ESTIMATE SUMMARY

Run a [Support Cost Estimate Summary](#)

report (D11 Project Management Support onramp) for component data.

Total by FY		Unescalated-Risk Loaded				Total \$	Escalated (4.2% per year for ETC, effective 1/2/2018)				Total \$
		PA&ED	PS&E	RW	CON		PA&ED	PS&E	RW	CON	
<2016	Expended										
	ETC										
2017	Expended										
	ETC										
2018	Expended										
	ETC										
2019	Expended										
	ETC										
2020	Expended										
	ETC										
2021	Expended										
	ETC										
2022	Expended	\$3,902,310				\$3,902,310	\$3,902,310				\$3,902,310
	ETC										
2023	Expended					\$3,902,310	\$3,902,310				\$3,902,310
	ETC	\$3,902,310					\$3,902,310				
2024	Expended					\$5,997,318	\$1,323,881	\$4,764,272	\$161,052	\$0	\$6,249,205
	ETC	\$1,270,520	\$4,572,238	\$154,560							
2025	Expended					\$9,468,276		\$9,944,160	\$336,153	\$0	\$10,280,313
	ETC		\$9,158,676	\$309,600							
2026	Expended					\$9,359,109		\$530,139	\$17,921	\$10,040,518	\$10,588,579
	ETC		\$468,583	\$15,840	\$8,874,686						
2027	Expended					\$8,874,686					\$10,462,220
	ETC								\$0	\$10,462,220	
2028	Expended										
	ETC										
2029	Expended										
	ETC										
>2030	Expended										
	ETC										
EAC (Expended + ETC)		\$9,075,139	\$14,199,497	\$480,000	\$17,749,371	\$41,504,008	\$9,128,501	\$15,238,572	\$515,125	\$20,502,739	\$45,384,936
Risk Amount from Risk Register		\$100,000	\$100,000	\$100,000	\$100,000	Escalated Risk Amou	\$104,200	\$108,576	\$110,833	\$120,339	\$443,948
Support Escalation Rate		4.2%	4.2%	4.2%	4.2%						
Duration to mid-point component		1.00	2.00	2.50	4.50						
Total including Risk Amount		\$9,175,139	\$14,299,497	\$580,000	\$17,849,371	Total Esc. Support Co	\$9,232,701	\$15,347,148	\$625,958	\$20,623,077	\$45,828,884
Approved Budget (PRSM)											
Difference (Budget - EAC)		-\$9,075,139	-\$14,199,497	-\$480,000	-\$17,749,371	-\$41,504,008	\$9,232,701	-\$15,238,572	-\$515,125	-\$20,502,739	-\$27,023,734
Support Ratio (EAC / Cap Cost)		7.7%	12.1%	0.4%	15.1%	35.3%	7.8%	13.0%	0.4%	17.5%	38.6%

Total Capital Cost:	\$117,440,000
Total Capital Outlay Support Cost:	\$45,384,936
Overall Percent Support Cost:	38.65%