ATTACHMENT D

PRELIMINARY COST ESTIMATE

101-280 MANAGED LANES					
	ALTERNATIVE				
	1A Escalated Cost	1B Escalated Cost	1C Escalated Cost	2A Escalated Cost	2B Escalated Cost
CONSTRUCTION COST	$ 333,305,275	$ 547,656,999	$ 547,656,999	$ 200,337,370	$ 430,433,764
RIGHT OF WAY COST	$ 47,835,738	$ 56,145,269	$ 56,145,269	$ -	$ 43,982,097
PA/ED COST	$ 26,664,422	$ 43,812,560	$ 43,812,560	$ 16,026,990	$ 34,434,701
PS&E COST	$ 59,994,950	$ 98,578,260	$ 98,578,260	$ 36,060,727	$ 77,478,077
CONSTRUCTION MANAGEMENT COST	$ 49,995,791	$ 82,148,550	$ 82,148,550	$ 30,050,606	$ 64,565,065
TOTAL PROJECT COST	$ 517,796,176	$ 828,341,637	$ 828,341,637	$ 282,475,692	$ 650,893,704

101-280 MANAGED LANES ESCALATED COST ESTIMATE

San Mateo County	1A-Option 1	1A-Option 2	1B	1C	1D	1E	2A	2B
TOTAL ROADWAY COST	$ 169,143,138	$ 157,667,984	$ 169,143,138	$ 169,143,138	$ 169,143,138	$ 169,143,138	$ 119,202,837	$ 119,202,837
TOTAL STRUCTURES COST	$ 38,503,944	$ 30,192,865	$ 38,503,944	$ 38,503,944	$ 38,503,944	$ 38,503,944	$ 7,838,090	$ 7,838,090
SUBTOTAL CONSTRUCTION COST	$ 207,647,082	$ 187,860,849	$ 207,647,082	$ 207,647,082	$ 207,647,082	$ 207,647,082	$ 127,040,928	$ 127,040,928
TOTAL RIGHT OF WAY COST	$ 12,163,172	$ 477,896	$ 12,163,172	$ 12,163,172	$ 12,163,172	$ 12,163,172	$ -	$ -
TOTAL CAPITAL OUTLAY COSTS	**$ 219,811,000**	**$ 188,339,000**	**$ 219,811,000**	**$ 219,811,000**	**$ 219,811,000**	**$ 219,811,000**	**$ 127,041,000**	**$ 127,041,000**

San Francisco County	1A-Option 1	1A-Option 2	1B	1C	1D	1E	2A	2B
TOTAL ROADWAY COST	$ 115,438,946	$ 115,438,946	$ 132,622,152	$ 132,622,152	$ 120,635,264	$ 109,228,025	$ 73,296,443	$ 98,872,731
TOTAL STRUCTURES COST	$ 10,219,248	$ 10,219,248	$ 207,387,765	$ 207,387,765	$ 133,669,173	$ 207,995,892	$ -	$ 204,520,105
SUBTOTAL CONSTRUCTION COST	$ 125,658,194	$ 125,658,194	$ 340,009,917	$ 340,009,917	$ 254,304,437	$ 317,223,917	$ 73,296,443	$ 303,392,836
TOTAL RIGHT OF WAY COST	$ 35,672,566	$ 35,672,566	$ 43,982,097	$ 43,982,097	$ 128,770,099	$ 126,880,461		$ 43,982,097
TOTAL CAPITAL OUTLAY COSTS	**$ 161,331,000**	**$ 161,331,000**	**$ 383,993,000**	**$ 383,993,000**	**$ 383,075,000**	**$ 444,105,000**	**$ 73,297,000**	**$ 347,375,000**

TOTAL PROJECT COST	**$ 381,150,000**	**$ 349,670,000**	**$ 603,810,000**	**$ 603,810,000**	**$ 602,890,000**	**$ 663,920,000**	**$ 200,340,000**	**$ 474,420,000**

ALTERNATIVE 1

SAN MATEO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SM-101

PM: 19.2-26.1

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : South of San Bruno Ave along 101 to San Mateo/San Francisco County Line

Project Description: Maximum w/Northbound Direct Connector

Scope : Addition of Managed Lane

Alternative : Alternative 1

SUMMARY OF PROJECT COST ESTIMATE 1 - San Mateo

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 150,194,266	$ 169,143,138
TOTAL STRUCTURES COST	$ 34,190,400	$ 38,503,944
SUBTOTAL CONSTRUCTION COST	$ 184,384,666	$ 207,647,082
TOTAL RIGHT OF WAY COST	$ 11,924,679	$ 12,163,172
TOTAL CAPITAL OUTLAY COSTS	$ 196,310,000	$ 219,811,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 197,000,000	$ 220,000,000

If Project has been programmed enter Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)		/	
Estimated Construction Start (Month/Year)		/	
Number of Working Days =			
Estimated Mid-Point of Construction (Month/Year)		/	
Estimated Construction End (Month/Year)		/	
Number of Plant Establishment Days			

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	1,153,300
2	**Pavement Structural Section**	$	31,071,000
3	**Drainage**	$	8,575,000
4	**Specialty Items**	$	9,987,500
5	**Environmental**	$	5,500,000
6	**Traffic Items**	$	31,324,200
7	**Detours**	$	-
8	**Minor Items**	$	7,008,900
9	**Roadway Mobilization**	$	9,462,000
10	**Supplemental Work**	$	3,784,800
11	**State Furnished**	$	4,731,000
12	**Time-Related Overhead**	$	7,557,666
13	**Roadway Contingency**	$	30,038,900
	TOTAL ROADWAY ITEMS	**$**	**150,194,266**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	88,710	x	13.00	=	$	1,153,230
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 1,153,300

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	20000000.00	=	$	20,000,000
839708	Concrete Barrier (Type 60GC)	LF	15,840	x	150.00	=	$	2,376,000
839700	Concrete Barrier (Type 732)	LF	11,400	x	100.00	=	$	1,140,000
XXXXXX	Pavement	SQFT	755,500	x	10.00	=	$	7,555,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 31,071,000

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	220	x	10,000	=	$	2,200,000
XXXXXX	Drainage	LF	37,500	x	170.00	=	$	6,375,000

TOTAL DRAINAGE ITEMS $ 8,575,000

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT	84,625	x	100.00	=	$	8,462,500
XXXXXX	Bridge Deck Surfacing	SY	50,000	x	8.00	=	$	400,000
XXXXXX	Bridge Joints	LF	4,500	x	50.00	=	$	225,000
XXXXXX	Bridge Barrier	LF	6,000	x	150.00	=	$	900,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 9,987,500

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	1	x	1,400,000.00	=	$	1,400,000
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*1,400,000*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	600,000.00	=	$	600,000
XXXXXX	Pocket Parks	LS		x		=	$	-
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LN-MI	14	x	250000	=	$	3,500,000
					Subtotal Erosion Control		*$*	*3,500,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**5,500,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	11,600,000.00	=	$	11,600,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	10	x	80,000.00	=	$	800,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	4	x	350,000.00	=	$	1,400,000
XXXXXX	ITS - CCTV	EA	3	x	20,000.00	=	$	60,000
XXXXXX	ITS - Signal Interconnect	LS	0	x		=	$	-
XXXXXX	ITS - Roadway Detectors (By Location)	EA	32	x	10,000.00	=	$	320,000
86XXXX	Fiber Optic Conduit System	LF		x		=	$	-
860401	Enhanced Lighting	LS	1	x	600,000.00	=	$	600,000

Subtotal Traffic Electrical $ *17,440,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	8	x	400,000.00	=	$	3,200,000
XXXXXX	Enhanced Signing	LS	1	x	60,000.00	=	$	60,000
846007	High Visibility Striping	LF	253,440	x	1.20	=	$	304,128
XXXXXX	Span OH Structure	EA	4	x	300,000.00	=	$	1,200,000
XXXXXX	OH Structure	EA	22	x	150,000.00	=	$	3,300,000
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	470,000	x	1.00	=	$	470,000

Subtotal Traffic Signing and Striping $ *9,134,128*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	4,000,000.00	=	$	4,000,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	37,500	x	20.00	=	$	750,000
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *4,750,000*

TOTAL TRAFFIC ITEMS $ 31,324,200

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 87,611,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	7,008,880
Total of Section 1-7	$	87,611,000	x	8.0%	=	$	7,008,880

TOTAL MINOR ITEMS $ 7,008,900

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	94,619,900	x	10%	=	$	9,461,990

TOTAL MOBILIZATION $ 9,462,000

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	94,619,900		4%	=	$	3,784,796

TOTAL SUPPLEMENTAL WORK $ 3,784,800

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	94,619,900		5%	= $	4,730,995

TOTAL STATE FURNISHED $4,731,000

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$125,961,100	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$146,788,100	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$7,557,666

TOTAL TIME-RELATED OVERHEAD $7,557,666

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)
Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	120,155,366	x	**25%**	=	$30,038,842

TOTAL CONTINGENCY $30,038,900

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	10/24/18	10/24/18	10/24/18
Bridge Name	COLMA CREEK	S. SF BELT RAILWAY OH	S. SF OH
Bridge Number	350118	350121	350094L
Structure Type	RC SLAB ON RC PILES	STEEL GIRDER	STEEL GIRDER
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)	1350 SQFT	1650 SQFT	11100 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILES	SPREAD	PILE
Cost Per Square Foot	$420	$500	$500
COST OF EACH	**$567,000**	**$825,000**	**$5,550,000**

	Bridge 4	Bridge 5	Bridge 6
DATE OF ESTIMATE	10/24/18	10/24/18	10/24/18
Bridge Name	S. SF OH	SIERRA POINT OH	OYSTER POINT OC
Bridge Number	350094R	350130	
Structure Type	STEEL GIRDER	STEEL GIRDER	
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)	10100 SQFT	23000 SQFT	10000 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILE	STEEL GIRDER	xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$500	$500	$500
COST OF EACH	**$5,050,000**	**$11,500,000**	**$5,000,000**

TOTAL COST OF BRIDGES		**$28,492,000**
TOTAL COST OF BUILDINGS		**$0**
Structures Mobilization Percentage	10%	**$2,849,200**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage	10%	**$2,849,200**

TOTAL COST OF STRUCTURES $34,190,400

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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		$	8,924,679
	A2)	SB-1210		$	0
B)		Acquisition of Offsite Mitigation		$	0
C)	C1)	Utility Relocation (State Share)		$	3,000,000
	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		$	0
H)		Environmental Review		$	0
I)		Condemnation Settlements	0%	$	0
J)		Design Appreciation Factor	0%	$	0
K)		Utility Relocation (Construction Cost)		$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$11,924,679**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$12,163,172**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

ALTERNATIVE 1

SAN FRANCISCO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SF-101/280

PM: 0.00-T7.226

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : San Mateo/San Francisco County Line to 280/5th Street

Project Description: Maximum w/C-D road; South San Francisco OH option 1

Scope : Addition of Managed Lane

Alternative : Alternative 1A

SUMMARY OF PROJECT COST ESTIMATE- San Francisco

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 102,506,480	$ 115,438,946
TOTAL STRUCTURES COST	$ 9,074,400	$ 10,219,248
SUBTOTAL CONSTRUCTION COST	$ 111,580,880	$ 125,658,194
TOTAL RIGHT OF WAY COST	$ 34,973,104	$ 35,672,566
TOTAL CAPITAL OUTLAY COSTS	$ 146,554,000	$ 161,331,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 147,000,000	$ 162,000,000

If Project has been programmed enter Programmed Amount

Month / Year

Date of Estimate (Month/Year) _____ /

Estimated Construction Start (Month/Year) _____ /

Number of Working Days =

Estimated Mid-Point of Construction (Month/Year) _____ /

Estimated Construction End (Month/Year) _____ /

Number of Plant Establishment Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	247,000
2	**Pavement Structural Section**	$	9,312,500
3	**Drainage**	$	2,887,000
4	**Specialty Items**	$	24,707,500
5	**Environmental**	$	3,440,000
6	**Traffic Items**	$	19,780,800
7	**Detours**	$	-
8	**Minor Items**	$	4,830,000
9	**Roadway Mobilization**	$	6,520,500
10	**Supplemental Work**	$	2,608,200
11	**State Furnished**	$	3,260,300
12	**Time-Related Overhead**	$	4,411,380
13	**Roadway Contingency**	$	20,501,300
	TOTAL ROADWAY ITEMS	**$**	**102,506,480**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	19,000	x	13.00	=	$	247,000
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 247,000

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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		=	$	-
	Pavement	SQFT	234,750	x	10.00	=	$	2,347,500
390132	Hot Mix Asphalt (Type A)	TON		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	4000000.00	=	$	4,000,000
839708	Concrete Barrier (Type 60GC)	LF	10,000	x	150.00	=	$	1,500,000
839700	Concrete Barrier (Type 732)	LF	6,650	x	100.00	=	$	665,000
839700	Concrete Barrier (Type 60)	LF	8,000	x	100.00	=	$	800,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 9,312,500

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	100	x	10,000	=	$	1,000,000
XXXXXX	Drainage	LF	11,100	x	170.00	=	$	1,887,000

TOTAL DRAINAGE ITEMS $ 2,887,000

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT	167,675	x	100.00	=	$	16,767,500
XXXXXX	Bridge Deck Surfacing	SY	180,000	x	8.00	=	$	1,440,000
XXXXXX	Bridge Joints	LF	10,000	x	50.00	=	$	500,000
XXXXXX	Bridge Barrier	LF	40,000	x	150.00	=	$	6,000,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 24,707,500

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	1	x	340,000.00	=	$	340,000
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*340,000*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	200,000.00	=	$	200,000
XXXXXX	Pocket Parks	LS	1	x	400,000.00	=	$	400,000
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LN-MI	10	x	250000	=	$	2,500,000
					Subtotal Erosion Control		*$*	*2,500,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**3,440,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	7,700,000.00	=	$	7,700,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	8	x	80,000.00	=	$	640,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	5	x	350,000.00	=	$	1,750,000
XXXXXX	ITS - CCTV	EA	10	x	20,000.00	=	$	200,000
XXXXXX	ITS - Signal Interconnect	LS	1	x	350,000.00	=	$	350,000
XXXXXX	ITS - Roadway Detectors (By Location)	EA	25	x	10,000.00	=	$	250,000
86XXXX	Fiber Optic Conduit System	LF		x		=	$	-
860401	Enhanced Lighting	LS	1	x	250,000.00	=	$	250,000

Subtotal Traffic Electrical $ *13,800,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	2	x	400,000.00	=	$	800,000
XXXXXX	Enhanced Signing	LS	1	x	40,000.00	=	$	40,000
846007	High Visibility Striping	LF	104,000	x	1.20	=	$	124,800
XXXXXX	Span OH Structure	EA		x		=	$	-
XXXXXX	OH Structure	EA	4	x	150,000.00	=	$	600,000
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	316,000	x	1.00	=	$	316,000

Subtotal Traffic Signing and Striping $ *2,480,800*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	2,500,000.00	=	$	2,500,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	50,000	x	20.00	=	$	1,000,000
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *3,500,000*

TOTAL TRAFFIC ITEMS $ 19,780,800

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 60,374,800

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	4,829,984
Total of Section 1-7	$	60,374,800	x	8.0%	=	$	4,829,984

TOTAL MINOR ITEMS $ 4,830,000

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	65,204,800	x	10%	=	$	6,520,480

TOTAL MOBILIZATION $ 6,520,500

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	65,204,800		4%	=	$	2,608,192

TOTAL SUPPLEMENTAL WORK $ 2,608,200

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	65,204,800		5%	= $	3,260,240

TOTAL STATE FURNISHED $3,260,300

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$73,523,000	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$86,668,200	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$4,411,380

TOTAL TIME-RELATED OVERHEAD $4,411,380

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)
Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	82,005,180	x	**25%**	=	$20,501,295

TOTAL CONTINGENCY $20,501,300

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	10/24/18	10/24/18	10/24/18
Bridge Name	THIRD ST UC - NB	THIRD ST UC - SB	PAUL AVE UC-NB
Bridge Number	340030	340030	340056
Structure Type	RC BOX GIRDER	RC BOX GIRDER	BOX GIRDER
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)	12000 SQFT	2650 SQFT	3300 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILES	SPREAD	PILE
Cost Per Square Foot	$400	$400	$400
COST OF EACH	**$4,800,000**	**$1,060,000**	**$1,320,000**

	Bridge 4	Bridge 5	
DATE OF ESTIMATE	10/24/18	00/00/00	00/00/00
Bridge Name	PAUL AVE UC-SB	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
Bridge Number	340056	57-XXX	57-XXX
Structure Type	BOX GIRDER	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
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)	955 SQFT	0 SQFT	0 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILE	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$400	$0	$0
COST OF EACH	**$382,000**	**$0**	**$0**

TOTAL COST OF BRIDGES	**$7,562,000**
TOTAL COST OF BUILDINGS	**$0**

Structures Mobilization Percentage	10%	**$756,200**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage	10%	**$756,200**

TOTAL COST OF STRUCTURES	**$9,074,400**

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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		$	31,973,104
	A2)	SB-1210		$	0
B)		Acquisition of Offsite Mitigation		$	0
C)	C1)	Utility Relocation (State Share)		$	3,000,000
	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		$	0
H)		Environmental Review		$	0
I)		Condemnation Settlements	0%	$	0
J)		Design Appreciation Factor	0%	$	0
K)		Utility Relocation (Construction Cost)		$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$34,973,104**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$35,672,566**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

ALTERNATIVE 1B

SAN FRANCISCO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SF-101/280

PM: 0.00-T7.226

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : San Mateo/San Francisco County Line to 280/5th Street

Project Description: Maximum w/Northbound Direct Connector

Scope : Addition of Managed Lane

Alternative : Alternative 1B

SUMMARY OF PROJECT COST ESTIMATE- San Francisco

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 117,764,676	$ 132,622,152
TOTAL STRUCTURES COST	$ 184,154,400	$ 207,387,765
SUBTOTAL CONSTRUCTION COST	$ 301,919,076	$ 340,009,917
TOTAL RIGHT OF WAY COST	$ 43,119,703	$ 43,982,097
TOTAL CAPITAL OUTLAY COSTS	$ 345,039,000	$ 383,993,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 346,000,000	$ 384,000,000

If Project has been programmed enter Programmed Amount

Month / Year

Date of Estimate (Month/Year) _____ /

Estimated Construction Start (Month/Year) _____ /

Number of Working Days =

Estimated Mid-Point of Construction (Month/Year) _____ /

Estimated Construction End (Month/Year) _____ /

Number of Plant Establishment Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

Office Engineer / Cost Estimate Certifier	Date	Phone
	xx/xx/xxxx	(xxx) xxx-xxxx

Approved by Project Manager

Project Manager	Date	Phone
	xx/xx/xxxx	(xxx) xxx-xxxx

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	222,300
2	**Pavement Structural Section**	$	8,158,000
3	**Drainage**	$	2,698,300
4	**Specialty Items**	$	24,707,500
5	**Environmental**	$	4,300,000
6	**Traffic Items**	$	22,197,600
7	**Detours**	$	-
8	**Minor Items**	$	4,982,700
9	**Roadway Mobilization**	$	6,726,700
10	**Supplemental Work**	$	2,690,700
11	**State Furnished**	$	3,363,400
12	**Time-Related Overhead**	$	14,164,476
13	**Roadway Contingency**	$	23,553,000
	TOTAL ROADWAY ITEMS	**$**	**117,764,676**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	17,100	x	13.00	=	$	222,300
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 222,300

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	4000000.00	=	$	4,000,000
839708	Concrete Barrier (Type 60GC)	LF	10,000	x	150.00	=	$	1,500,000
839700	Concrete Barrier (Type 732)	LF	6,500	x	100.00	=	$	650,000
XXXXXX	Pavement	SQFT	200,800	x	10.00	=	$	2,008,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 8,158,000

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	100	x	10,000	=	$	1,000,000
XXXXXX	Drainage	LF	9,990	x	170.00	=	$	1,698,300

TOTAL DRAINAGE ITEMS $ 2,698,300

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT	167,675	x	100.00	=	$	16,767,500
XXXXXX	Bridge Deck Surfacing	SY	180,000	x	8.00	=	$	1,440,000
XXXXXX	Bridge Joints	LF	10,000	x	50.00	=	$	500,000
XXXXXX	Bridge Barrier	LF	40,000	x	150.00	=	$	6,000,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 24,707,500

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	1	x	1,200,000.00	=	$	1,200,000
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*1,200,000*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	200,000.00	=	$	200,000
XXXXXX	Pocket Parks	LS	1	x	400,000.00	=	$	400,000
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LN-MI	10	x	250000	=	$	2,500,000
					Subtotal Erosion Control		*$*	*2,500,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**4,300,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	10,000,000.00	=	$	10,000,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	8	x	80,000.00	=	$	640,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	5	x	350,000.00	=	$	1,750,000
XXXXXX	ITS - CCTV	EA	10	x	20,000.00	=	$	200,000
XXXXXX	ITS - Signal Interconnect	LS	1	x	350,000.00	=	$	350,000
XXXXXX	ITS - Roadway Detectors (By Location)	EA	25	x	10,000.00	=	$	250,000
86XXXX	Fiber Optic Conduit System	LF		x		=	$	-
860401	Enhanced Lighting	LS	1	x	250,000.00	=	$	250,000

Subtotal Traffic Electrical $ *16,100,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	2	x	400,000.00	=	$	800,000
XXXXXX	Enhanced Signing	LS	1	x	40,000.00	=	$	40,000
846007	High Visibility Striping	LF	104,000	x	1.20	=	$	124,800
XXXXXX	Span OH Structure	EA	2	x	300,000.00	=	$	600,000
XXXXXX	OH Structure	EA	6	x	150,000.00	=	$	900,000
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	333,000	x	1.00	=	$	333,000

Subtotal Traffic Signing and Striping $ *3,397,800*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	2,500,000.00	=	$	2,500,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	9,990	x	20.00	=	$	199,800
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *2,699,800*

TOTAL TRAFFIC ITEMS $ 22,197,600

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 62,283,700

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	4,982,696
Total of Section 1-7	$	62,283,700	x	8.0%	=	$	4,982,696

TOTAL MINOR ITEMS $ 4,982,700

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	67,266,400	x	10%	=	$	6,726,640

TOTAL MOBILIZATION $ 6,726,700

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	67,266,400		4%	=	$	2,690,656

TOTAL SUPPLEMENTAL WORK $ 2,690,700

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	67,266,400		5%	= $	3,363,320

TOTAL STATE FURNISHED $3,363,400

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$236,074,600	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$264,201,600	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$14,164,476

TOTAL TIME-RELATED OVERHEAD $14,164,476

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	94,211,676	x	**25%**	=	$23,552,919

TOTAL CONTINGENCY $23,553,000

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	10/24/18	10/24/18	10/24/18
Bridge Name	THIRD ST UC - NB	THIRD ST UC - SB	PAUL AVE UC-NB
Bridge Number	340030	340030	340056
Structure Type	RC BOX GIRDER	RC BOX GIRDER	BOX GIRDER
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)	8500 SQFT	2650 SQFT	2800 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILES	PILES	PILE
Cost Per Square Foot	$400	$400	$400
COST OF EACH	**$3,400,000**	**$1,060,000**	**$1,120,000**

	Bridge 4	Bridge 5	
DATE OF ESTIMATE	10/24/18	10/24/18	00/00/00
Bridge Name	PAUL AVE UC-SB	NB DIRECT CONNECTOR	xxxxxxxxxxxxxxxxxxx
Bridge Number	340056	(SOUTH OF I-280)	57-XXX
Structure Type	BOX GIRDER	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
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)	955 SQFT	295000 SQFT	0 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILE	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$400	$500	$0
COST OF EACH	**$382,000**	**$147,500,000**	**$0**

TOTAL COST OF BRIDGES		**$153,462,000**
TOTAL COST OF BUILDINGS		**$0**
Structures Mobilization Percentage	10%	**$15,346,200**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage	10%	**$15,346,200**

TOTAL COST OF STRUCTURES $184,154,400

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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		$	40,119,703
	A2)	SB-1210		$	0
B)		Acquisition of Offsite Mitigation		$	0
C)	C1)	Utility Relocation (State Share)		$	3,000,000
	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		$	0
H)		Environmental Review		$	0
I)		Condemnation Settlements	0%	$	0
J)		Design Appreciation Factor	0%	$	0
K)		Utility Relocation (Construction Cost)		$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$43,119,703**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$43,982,097**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

ALTERNATIVE 1C

SAN FRANCISCO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SF-101/280

PM: 0.00-T7.226

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : San Mateo/San Francisco County Line to 280/5th Street

Project Description: Maximum w/Reversible Direct Connector

Scope : Addition of Managed Lane

Alternative : Alternative 1C

SUMMARY OF PROJECT COST ESTIMATE-San Francisco

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 117,764,676	$ 132,622,152
TOTAL STRUCTURES COST	$ 184,154,400	$ 207,387,765
SUBTOTAL CONSTRUCTION COST	$ 301,919,076	$ 340,009,917
TOTAL RIGHT OF WAY COST	$ 43,119,703	$ 43,982,097
TOTAL CAPITAL OUTLAY COSTS	$ 345,039,000	$ 383,993,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 346,000,000	$ 384,000,000

If Project has been programmed enter Programmed Amount

Month / Year

Date of Estimate (Month/Year) _____ /

Estimated Construction Start (Month/Year) _____ /

Number of Working Days =

Estimated Mid-Point of Construction (Month/Year) _____ /

Estimated Construction End (Month/Year) _____ /

Number of Plant Establishment Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

Office Engineer / Cost Estimate Certifier	Date	Phone
	xx/xx/xxxx	(xxx) xxx-xxxx

Approved by Project Manager

Project Manager	Date	Phone
	xx/xx/xxxx	(xxx) xxx-xxxx

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	222,300
2	**Pavement Structural Section**	$	8,158,000
3	**Drainage**	$	2,698,300
4	**Specialty Items**	$	24,707,500
5	**Environmental**	$	4,300,000
6	**Traffic Items**	$	22,197,600
7	**Detours**	$	-
8	**Minor Items**	$	4,982,700
9	**Roadway Mobilization**	$	6,726,700
10	**Supplemental Work**	$	2,690,700
11	**State Furnished**	$	3,363,400
12	**Time-Related Overhead**	$	14,164,476
13	**Roadway Contingency**	$	23,553,000
	TOTAL ROADWAY ITEMS	**$**	**117,764,676**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	17,100	x	13.00	=	$	222,300
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 222,300

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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)	CY		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	4000000.00	=	$	4,000,000
839708	Concrete Barrier (Type 60GC)	LF	10,000	x	150.00	=	$	1,500,000
839700	Concrete Barrier (Type 732)	LF	6,500	x	100.00	=	$	650,000
XXXXXX	Pavement	SQFT	200,800	x	10.00	=	$	2,008,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 8,158,000

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	100	x	10,000	=	$	1,000,000
XXXXXX	Drainage	LF	9,990	x	170.00	=	$	1,698,300

TOTAL DRAINAGE ITEMS $ 2,698,300

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT	167,675	x	100.00	=	$	16,767,500
XXXXXX	Bridge Deck Surfacing	SY	180,000	x	8.00	=	$	1,440,000
XXXXXX	Bridge Joints	LF	10,000	x	50.00	=	$	500,000
XXXXXX	Bridge Barrier	LF	40,000	x	150.00	=	$	6,000,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 24,707,500

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	1	x	1,200,000.00	=	$	1,200,000
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*1,200,000*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	200,000.00	=	$	200,000
XXXXXX	Pocket Parks	LS	1	x	400,000.00	=	$	400,000
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LN-MI	10	x	250000	=	$	2,500,000
					Subtotal Erosion Control		*$*	*2,500,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**4,300,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	10,000,000.00	=	$	10,000,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	8	x	80,000.00	=	$	640,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	5	x	350,000.00	=	$	1,750,000
XXXXXX	ITS - CCTV	EA	10	x	20,000.00	=	$	200,000
XXXXXX	ITS - Signal Interconnect	LS	1	x	350,000.00	=	$	350,000
XXXXXX	ITS - Roadway Detectors (By Location)	EA	25	x	10,000.00	=	$	250,000
86XXXX	Fiber Optic Conduit System	LF		x		=	$	-
860401	Enhanced Lighting	LS	1	x	250,000.00	=	$	250,000

Subtotal Traffic Electrical $ *16,100,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	2	x	400,000.00	=	$	800,000
XXXXXX	Enhanced Signing	LS	1	x	40,000.00	=	$	40,000
846007	High Visibility Striping	LF	104,000	x	1.20	=	$	124,800
XXXXXX	OH Structure	EA	6	x	150,000.00	=	$	900,000
XXXXXX	Span OH Structure	EA	2	x	300,000.00	=	$	600,000
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	333,000	x	1.00	=	$	333,000

Subtotal Traffic Signing and Striping $ *3,397,800*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	2,500,000.00	=	$	2,500,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	9,990	x	20.00	=	$	199,800
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *2,699,800*

TOTAL TRAFFIC ITEMS $ 22,197,600

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 62,283,700

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	4,982,696
Total of Section 1-7	$	62,283,700	x	8.0%	=	$	4,982,696

TOTAL MINOR ITEMS $ 4,982,700

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	67,266,400	x	10%	=	$	6,726,640

TOTAL MOBILIZATION $ 6,726,700

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	67,266,400		4%	=	$	2,690,656

TOTAL SUPPLEMENTAL WORK $ 2,690,700

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	67,266,400		5%	= $	3,363,320

TOTAL STATE FURNISHED $3,363,400

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$236,074,600	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$264,201,600	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$14,164,476

TOTAL TIME-RELATED OVERHEAD $14,164,476

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	94,211,676	x	**25%**	=	$23,552,919

TOTAL CONTINGENCY $23,553,000

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	10/24/18	10/24/18	10/24/18
Bridge Name	THIRD ST UC - NB	THIRD ST UC - SB	PAUL AVE UC-NB
Bridge Number	340030	340030	340056
Structure Type	RC BOX GIRDER	RC BOX GIRDER	BOX GIRDER
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)	8500 SQFT	2650 SQFT	2800 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILES	SPREAD	PILE
Cost Per Square Foot	$400	$400	$400
COST OF EACH	**$3,400,000**	**$1,060,000**	**$1,120,000**

	Bridge 4	Bridge 5	
DATE OF ESTIMATE	10/24/18	10/24/18	00/00/00
Bridge Name	PAUL AVE UC-SB	REVERSIBLE DIRECT CONN.	xxxxxxxxxxxxxxxxxxx
Bridge Number	340056	(SOUTH OF I-280)	57-XXX
Structure Type	BOX GIRDER		xxxxxxxxxxxxxxxxxxx
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)	955 SQFT	295000 SQFT	0 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILE	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$400	$500	$0
COST OF EACH	**$382,000**	**$147,500,000**	**$0**

TOTAL COST OF BRIDGES	**$153,462,000**
TOTAL COST OF BUILDINGS	**$0**

Structures Mobilization Percentage 10% **$15,346,200**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage 10% **$15,346,200**

TOTAL COST OF STRUCTURES $184,154,400

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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		$	40,119,703
	A2)	SB-1210		$	0
B)		Acquisition of Offsite Mitigation		$	0
C)	C1)	Utility Relocation (State Share)		$	3,000,000
	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		$	0
H)		Environmental Review		$	0
I)		Condemnation Settlements	0%	$	0
J)		Design Appreciation Factor	0%	$	0
K)		Utility Relocation (Construction Cost)		$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$43,119,703**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$43,982,097**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

ALTERNATIVE 1D

SAN FRANCISCO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SF-101/280

PM: 0.00-T7.226

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : San Mateo/San Francisco County Line to 280/5th Street

Project Description: Maximum w/Direct Connector via exist Northbound US 101 to SB I-280 connector

Scope : Addition of Managed Lane

Alternative : Alternative 1D

SUMMARY OF PROJECT COST ESTIMATE- San Francisco

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 107,120,662	$ 120,635,264
TOTAL STRUCTURES COST	$ 118,694,400	$ 133,669,173
SUBTOTAL CONSTRUCTION COST	$ 225,815,062	$ 254,304,437
TOTAL RIGHT OF WAY COST	$ 126,245,195	$ 128,770,099
TOTAL CAPITAL OUTLAY COSTS	$ 352,061,000	$ 383,075,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 353,000,000	$ 384,000,000

If Project has been programmed enter Programmed Amount

Month / Year

Date of Estimate (Month/Year) _____ /

Estimated Construction Start (Month/Year) _____ /

Number of Working Days =

Estimated Mid-Point of Construction (Month/Year) _____ /

Estimated Construction End (Month/Year) _____ /

Number of Plant Establishment Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	162,700
2	**Pavement Structural Section**	$	6,050,000
3	**Drainage**	$	2,224,000
4	**Specialty Items**	$	24,707,500
5	**Environmental**	$	4,300,000
6	**Traffic Items**	$	21,198,800
7	**Detours**	$	-
8	**Minor Items**	$	4,691,500
9	**Roadway Mobilization**	$	6,333,500
10	**Supplemental Work**	$	2,533,400
11	**State Furnished**	$	3,166,800
12	**Time-Related Overhead**	$	10,328,262
13	**Roadway Contingency**	$	21,424,200
	TOTAL ROADWAY ITEMS	**$**	**107,120,662**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	12,510	x	13.00	=	$	162,630
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 162,700

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	4000000.00	=	$	4,000,000
839708	Concrete Barrier (Type 60GC)	LF	10,000	x	150.00	=	$	1,500,000
839700	Concrete Barrier (Type 732)	LF	4,600	x	100.00	=	$	460,000
XXXXXX	Pavement	SQFT	9,000	x	10.00	=	$	90,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 6,050,000

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	100	x	10,000	=	$	1,000,000
XXXXXX	Drainage	LF	7,200	x	170.00	=	$	1,224,000

TOTAL DRAINAGE ITEMS $ 2,224,000

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT	167,675	x	100.00	=	$	16,767,500
XXXXXX	Bridge Deck Surfacing	SY	180,000	x	8.00	=	$	1,440,000
XXXXXX	Bridge Joints	LF	10,000	x	50.00	=	$	500,000
XXXXXX	Bridge Barrier	LF	40,000	x	150.00	=	$	6,000,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 24,707,500

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	1	x	1,200,000.00	=	$	1,200,000
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*1,200,000*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	200,000.00	=	$	200,000
XXXXXX	Pocket Parks	LS	1	x	400,000.00	=	$	400,000
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LN-MI	10	x	250000	=	$	2,500,000
					Subtotal Erosion Control		*$*	*2,500,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**4,300,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	10,000,000.00	=	$	10,000,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	8	x	80,000.00	=	$	640,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	5	x	350,000.00	=	$	1,750,000
XXXXXX	ITS - CCTV	EA	10	x	20,000.00	=	$	200,000
XXXXXX	ITS - Signal Interconnect	LS	1	x	350,000.00	=	$	350,000
XXXXXX	ITS - Roadway Detectors (By Location)	EA	25	x	10,000.00	=	$	250,000
86XXXX	Fiber Optic Conduit System	LS		x		=	$	-
860401	Enhanced Lighting	LS	1	x	250,000.00	=	$	250,000

Subtotal Traffic Electrical $ *16,100,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	2	x	400,000.00	=	$	800,000
XXXXXX	Enhanced Signing	LS	1	x	40,000.00	=	$	40,000
846007	High Visibility Striping	LF	104,000	x	1.20	=	$	124,800
XXXXXX	Span OH Structure	EA		x		=	$	-
XXXXXX	OH Structure	EA	4	x	150,000.00	=	$	600,000
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	290,000	x	1.00	=	$	290,000

Subtotal Traffic Signing and Striping $ *2,454,800*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	2,500,000.00	=	$	2,500,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	7,200	x	20.00	=	$	144,000
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *2,644,000*

TOTAL TRAFFIC ITEMS $ 21,198,800

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 58,643,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	4,691,440
Total of Section 1-7	$	58,643,000	x	8.0%	=	$	4,691,440

TOTAL MINOR ITEMS $ 4,691,500

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	63,334,500	x	10%	=	$	6,333,450

TOTAL MOBILIZATION $ 6,333,500

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	63,334,500		4%	=	$	2,533,380

TOTAL SUPPLEMENTAL WORK $ 2,533,400

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	63,334,500		5%	= $	3,166,725

TOTAL STATE FURNISHED $3,166,800

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$172,137,700	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$194,062,600	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$10,328,262

TOTAL TIME-RELATED OVERHEAD $10,328,262

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)
Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	85,696,462	x	**25%**	=	$21,424,116

TOTAL CONTINGENCY $21,424,200

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	10/24/18	10/24/18	10/24/18
Bridge Name	THIRD ST UC - NB	THIRD ST UC - SB	PAUL AVE UC-NB
Bridge Number	340030	340030	340056
Structure Type	RC BOX GIRDER	RC BOX GIRDER	BOX GIRDER
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)	8500 SQFT	2650 SQFT	3300 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILES	PILES	PILE
Cost Per Square Foot	$400	$400	$400
COST OF EACH	**$3,400,000**	**$1,060,000**	**$1,320,000**

	Bridge 4	Bridge 5	
DATE OF ESTIMATE	10/24/18	10/24/18	00/00/00
Bridge Name	PAUL AVE UC-SB	NB DIRECT CONNECTOR	xxxxxxxxxxxxxxxxxxx
Bridge Number	340056	(NORTH OF I-280)	57-XXX
Structure Type	BOX GIRDER	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
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)	955 SQFT	185500 SQFT	0 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILE	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$400	$500	$0
COST OF EACH	**$382,000**	**$92,750,000**	**$0**

TOTAL COST OF BRIDGES	**$98,912,000**
TOTAL COST OF BUILDINGS	**$0**

Structures Mobilization Percentage 10% **$9,891,200**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage 10% **$9,891,200**

TOTAL COST OF STRUCTURES $118,694,400

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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		$	123,245,195
	A2)	SB-1210		$	0
B)		Acquisition of Offsite Mitigation		$	0
C)	C1)	Utility Relocation (State Share)		$	3,000,000
	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		$	0
H)		Environmental Review		$	0
I)		Condemnation Settlements	0%	$	0
J)		Design Appreciation Factor	0%	$	0
K)		Utility Relocation (Construction Cost)		$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$126,245,195**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$128,770,099**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

ALTERNATIVE 1E

SAN FRANCISCO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SF-101/280

PM: 0.00-T7.226

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : San Mateo/San Francisco County Line to 280/5th Street

Project Description: Maximum Northbound Direct Connector on north side of I-280

Scope : Addition of Managed Lane

Alternative : Alternative 1E

SUMMARY OF PROJECT COST ESTIMATE- San Francisco

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 96,991,360	$ 109,228,025
TOTAL STRUCTURES COST	$ 184,694,400	$ 207,995,892
SUBTOTAL CONSTRUCTION COST	$ 281,685,760	$ 317,223,917
TOTAL RIGHT OF WAY COST	$ 124,392,609	$ 126,880,461
TOTAL CAPITAL OUTLAY COSTS	$ 406,079,000	$ 444,105,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 407,000,000	$ 445,000,000

If Project has been programmed enter Programmed Amount

Month / Year

Date of Estimate (Month/Year) _____ /

Estimated Construction Start (Month/Year) _____ /

Number of Working Days =

Estimated Mid-Point of Construction (Month/Year) _____ /

Estimated Construction End (Month/Year) _____ /

Number of Plant Establishment Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	222,300
2	**Pavement Structural Section**	$	6,358,000
3	**Drainage**	$	2,224,000
4	**Specialty Items**	$	24,707,500
5	**Environmental**	$	4,300,000
6	**Traffic Items**	$	12,139,800
7	**Detours**	$	-
8	**Minor Items**	$	3,996,200
9	**Roadway Mobilization**	$	5,394,800
10	**Supplemental Work**	$	2,158,000
11	**State Furnished**	$	2,697,400
12	**Time-Related Overhead**	$	13,395,060
13	**Roadway Contingency**	$	19,398,300
	TOTAL ROADWAY ITEMS	**$**	**96,991,360**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	17,100	x	13.00	=	$	222,300
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 222,300

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	4000000.00	=	$	4,000,000
839708	Concrete Barrier (Type 60GC)	LF	10,000	x	150.00	=	$	1,500,000
839700	Concrete Barrier (Type 732)	LF	6,500	x	100.00	=	$	650,000
XXXXXX	Pavement	SQFT	20,800	x	10.00	=	$	208,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 6,358,000

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	100	x	10,000	=	$	1,000,000
XXXXXX	Drainage	LF	7,200	x	170.00	=	$	1,224,000

TOTAL DRAINAGE ITEMS $ 2,224,000

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT	167,675	x	100.00	=	$	16,767,500
XXXXXX	Bridge Deck Surfacing	SY	180,000	x	8.00	=	$	1,440,000
XXXXXX	Bridge Joints	LF	10,000	x	50.00	=	$	500,000
XXXXXX	Bridge Barrier	LF	40,000	x	150.00	=	$	6,000,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 24,707,500

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	1	x	1,200,000.00	=	$	1,200,000
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*1,200,000*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	200,000.00	=	$	200,000
XXXXXX	Pocket Parks	LS	1	x	400,000.00	=	$	400,000
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LN-MI	10	x	250000	=	$	2,500,000
					Subtotal Erosion Control		*$*	*2,500,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**4,300,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	12,000,000.00	=	$	12,000,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	8	x	80,000.00	=	$	640,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	5	x	350,000.00	=	$	1,750,000
XXXXXX	ITS - CCTV	EA	10	x	20,000.00	=	$	200,000
XXXXXX	ITS - Signal Interconnect	LS	1	x	350,000.00	=	$	350,000
XXXXXX	ITS - Roadway Detectors (By Location)	EA	25	x	10,000.00	=	$	250,000
86XXXX	Fiber Optic Conduit System	LF		x		=	$	-
860401	Enhanced Lighting	LS	1	x	250,000.00	=	$	250,000

Subtotal Traffic Electrical $ *6,100,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	2	x	400,000.00	=	$	800,000
XXXXXX	Enhanced Signing	LS	1	x	40,000.00	=	$	40,000
846007	High Visibility Striping	LF	104,000	x	1.20	=	$	124,800
XXXXXX	OH Structure	EA	6	x	150,000.00	=	$	900,000
XXXXXX	Span OH Structure	EA	2	x	300,000.00	=	$	600,000
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	331,000	x	1.00	=	$	331,000

Subtotal Traffic Signing and Striping $ *3,395,800*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	2,500,000.00	=	$	2,500,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	7,200	x	20.00	=	$	144,000
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *2,644,000*

TOTAL TRAFFIC ITEMS $ 12,139,800

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 49,951,600

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	3,996,128
Total of Section 1-7	$	49,951,600	x	8.0%	=	$	3,996,128

TOTAL MINOR ITEMS $ 3,996,200

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	53,947,800	x	10%	=	$	5,394,780

TOTAL MOBILIZATION $ 5,394,800

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	53,947,800		4%	=	$	2,157,912

TOTAL SUPPLEMENTAL WORK $ 2,158,000

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	53,947,800		5%	= $	2,697,390

TOTAL STATE FURNISHED $2,697,400

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$223,251,000	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$248,892,400	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$13,395,060

TOTAL TIME-RELATED OVERHEAD $13,395,060

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)
Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	77,593,060	x	**25%**	=	$19,398,265

TOTAL CONTINGENCY $19,398,300

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	10/24/18	10/24/18	10/24/18
Bridge Name	THIRD ST UC - NB	THIRD ST UC - SB	PAUL AVE UC-NB
Bridge Number	340030	340030	340056
Structure Type	RC BOX GIRDER	RC BOX GIRDER	BOX GIRDER
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)	12000 SQFT	2650 SQFT	2800 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILES	PILES	PILE
Cost Per Square Foot	$400	$400	$400
COST OF EACH	**$4,800,000**	**$1,060,000**	**$1,120,000**

	Bridge 4	Bridge 5	
DATE OF ESTIMATE	10/24/18	10/24/18	00/00/00
Bridge Name	PAUL AVE UC-SB	NB DIRECT CONNECTOR	xxxxxxxxxxxxxxxxxxx
Bridge Number	340056	(NORTH OF I-280)	57-XXX
Structure Type	BOX GIRDER	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
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)	955 SQFT	293100 SQFT	0 SQFT
Structure Depth (Feet)	0 LF	0 LF	0 LF
Footing Type (pile or spread)	PILE	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$400	$500	$0
COST OF EACH	**$382,000**	**$146,550,000**	**$0**

TOTAL COST OF BRIDGES		**$153,912,000**
TOTAL COST OF BUILDINGS		**$0**
Structures Mobilization Percentage	10%	**$15,391,200**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage	10%	**$15,391,200**

TOTAL COST OF STRUCTURES $184,694,400

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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		$	121,392,609
	A2)	SB-1210		$	0
B)		Acquisition of Offsite Mitigation		$	0
C)	C1)	Utility Relocation (State Share)		$	3,000,000
	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		$	0
H)		Environmental Review		$	0
I)		Condemnation Settlements	0%	$	0
J)		Design Appreciation Factor	0%	$	0
K)		Utility Relocation (Construction Cost)		$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$124,392,609**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$126,880,461**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

ALTERNATIVE 2

SAN MATEO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SM-101

PM: 19.2-26.1

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : South of San Bruno Ave along 101 to San Mateo/San Francisco County Line

Project Description: Minimum Footprint

Scope : Addition of Managed Lane

Alternative : Alternative 2A

SUMMARY OF PROJECT COST ESTIMATE- San Mateo

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 105,848,708	$ 119,202,837
TOTAL STRUCTURES COST	$ 6,960,000	$ 7,838,090
SUBTOTAL CONSTRUCTION COST	$ 112,808,708	$ 127,040,928
TOTAL RIGHT OF WAY COST	$ -	$ -
TOTAL CAPITAL OUTLAY COSTS	$ 112,809,000	$ 127,041,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 113,000,000	$ 128,000,000

If Project has been programmed enter Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)		/	
Estimated Construction Start (Month/Year)		/	
Number of Working Days =			
Estimated Mid-Point of Construction (Month/Year)		/	
Estimated Construction End (Month/Year)		/	
Number of Plant Establishment Days			

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	650,000
2	**Pavement Structural Section**	$	28,002,000
3	**Drainage**	$	5,971,500
4	**Specialty Items**	$	1,525,000
5	**Environmental**	$	2,050,000
6	**Traffic Items**	$	24,242,900
7	**Detours**	$	-
8	**Minor Items**	$	4,995,400
9	**Roadway Mobilization**	$	6,743,700
10	**Supplemental Work**	$	2,697,500
11	**State Furnished**	$	3,371,900
12	**Time-Related Overhead**	$	4,429,008
13	**Roadway Contingency**	$	21,169,800
	TOTAL ROADWAY ITEMS	**$**	**105,848,708**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	50,000	x	13.00	=	$	650,000
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 650,000

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	20000000.00	=	$	20,000,000
839708	Concrete Barrier (Type 60GC)	LF	15,840	x	150.00	=	$	2,376,000
839700	Concrete Barrier (Type 732)	LF	11,400	x	100.00	=	$	1,140,000
XXXXXX	Pavement	SQFT	448,600	x	10.00	=	$	4,486,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 28,002,000

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	220	x	10,000	=	$	2,200,000
XXXXXX	Drainage	LF	22,185	x	170.00	=	$	3,771,450

TOTAL DRAINAGE ITEMS $ 5,971,500

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x		=	$	-
XXXXXX	Bridge Deck Surfacing	SY	50,000	x	8.00	=	$	400,000
XXXXXX	Bridge Joints	LF	4,500	x	50.00	=	$	225,000
XXXXXX	Bridge Barrier	LF	6,000	x	150.00	=	$	900,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 1,525,000

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	1	x	450,000.00	=	$	450,000
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*450,000*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	600,000.00	=	$	600,000
XXXXXX	Pocket Parks	LS		x		=	$	-
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LS	1	x	1000000	=	$	1,000,000
					Subtotal Erosion Control		*$*	*1,000,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**2,050,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	11,600,000.00	=	$	11,600,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	10	x	80,000.00	=	$	800,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	4	x	350,000.00	=	$	1,400,000
XXXXXX	ITS - CCTV	EA	3	x	20,000.00	=	$	60,000
XXXXXX	ITS - Signal Interconnect	LS	0	x		=	$	-
XXXXXX	ITS - Roadway Detectors (By Location)	EA	32	x	10,000.00	=	$	320,000
86XXXX	Fiber Optic Conduit System	LF		x		=	$	-
860401	Enhanced Lighting	LS	1	x	600,000.00	=	$	600,000

Subtotal Traffic Electrical $ *17,440,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	8	x	400,000.00	=	$	3,200,000
XXXXXX	Enhanced Signing	LS	1	x	60,000.00	=	$	60,000
846007	High Visibility Striping	LF	253,440	x	1.20	=	$	304,128
XXXXXX	Span OH Structure	EA		x		=	$	-
XXXXXX	OH Structure	EA		x		=	$	-
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	195,000	x	1.00	=	$	195,000

Subtotal Traffic Signing and Striping $ *4,359,128*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	2,000,000.00	=	$	2,000,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	22,185	x	20.00	=	$	443,700
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *2,443,700*

TOTAL TRAFFIC ITEMS $ 24,242,900

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 62,441,400

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	4,995,312
Total of Section 1-7	$	62,441,400	x	8.0%	=	$	4,995,312

TOTAL MINOR ITEMS $ 4,995,400

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	67,436,800	x	10%	=	$	6,743,680

TOTAL MOBILIZATION $ 6,743,700

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	67,436,800		4%	=	$	2,697,472

TOTAL SUPPLEMENTAL WORK $ 2,697,500

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	67,436,800		5%	= $	3,371,840

TOTAL STATE FURNISHED $3,371,900

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization $73,816,800 (used to calculate TRO)

Total Construction Cost (excluding TRO and Contingency) $87,209,900 (used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$4,429,008

TOTAL TIME-RELATED OVERHEAD $4,429,008

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	84,678,908	x	**25%**	=	$21,169,727

TOTAL CONTINGENCY $21,169,800

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

Bridge 1

DATE OF ESTIMATE	10/24/18		00/00/00		00/00/00
Bridge Name	SIERRA POINT OH		xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx
Bridge Number	350130		57-XXX		57-XXX
Structure Type	STEEL GIRDER		xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx
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)	11600 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	0 LF		0 LF		0 LF
Footing Type (pile or spread)			PILES		PILE
Cost Per Square Foot	$500		$400		$400
COST OF EACH	**$5,800,000**		**$0**		**$0**

DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Name	xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx
Width (Feet) [out to out]	0 LF		0 LF		0 LF
Total 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		xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$400		$500		$0
COST OF EACH	**$0**		**$0**		**$0**

TOTAL COST OF BRIDGES	**$5,800,000**
TOTAL COST OF BUILDINGS	**$0**

Structures Mobilization Percentage 10% **$580,000**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage 10% **$580,000**

TOTAL COST OF STRUCTURES $6,960,000

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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	$	0
	A2)	SB-1210	$	0
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	$	0
H)		Environmental Review	$	0
I)		Condemnation Settlements 0%	$	0
J)		Design Appreciation Factor 0%	$	0
K)		Utility Relocation (Construction Cost)	$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$0**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$0**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

ALTERNATIVE 2A

SAN FRANCISCO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SF-101/280

PM: 0.00-T7.226

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : San Mateo/San Francisco County Line to 280/5th Street

Project Description: Minimum Footprint

Scope : Addition of Managed Lane

Alternative : Alternative 2A

SUMMARY OF PROJECT COST ESTIMATE- San Francisco

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 54,415,448	$ 73,296,443
TOTAL STRUCTURES COST	$ -	$ -
SUBTOTAL CONSTRUCTION COST	$ 54,415,448	$ 73,296,443
TOTAL RIGHT OF WAY COST	$ -	$ -
TOTAL CAPITAL OUTLAY COSTS	$ 54,416,000	$ 73,297,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 54,500,000	$ 73,300,000

If Project has been programmed enter Programmed Amount

	Month	/	Year
Date of Estimate (Month/Year)		/	
Estimated Construction Start (Month/Year)		/	
Number of Working Days =			
Estimated Mid-Point of Construction (Month/Year)		/	
Estimated Construction End (Month/Year)		/	
Number of Plant Establishment Days			

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

	xx/xx/xxxx	(xxx) xxx-xxxx
Office Engineer / Cost Estimate Certifier	**Date**	**Phone**

Approved by Project Manager

	xx/xx/xxxx	(xxx) xxx-xxxx
Project Manager	**Date**	**Phone**

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	-
2	**Pavement Structural Section**	$	5,960,000
3	**Drainage**	$	1,000,000
4	**Specialty Items**	$	7,940,000
5	**Environmental**	$	700,000
6	**Traffic Items**	$	16,646,100
7	**Detours**	$	-
8	**Minor Items**	$	2,579,700
9	**Roadway Mobilization**	$	3,482,600
10	**Supplemental Work**	$	1,393,100
11	**State Furnished**	$	1,741,300
12	**Time-Related Overhead**	$	2,089,548
13	**Roadway Contingency**	$	10,883,100
	TOTAL ROADWAY ITEMS	**$**	**54,415,448**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	0	x	13.00	=	$	-
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ -

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	4000000.00	=	$	4,000,000
839708	Concrete Barrier (Type 60GC)	LF	10,000	x	150.00	=	$	1,500,000
839700	Concrete Barrier (Type 732)	LF	4,600	x	100.00	=	$	460,000
839700	Concrete Barrier (Type 60)	LF		x		=	$	-

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 5,960,000

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	100	x	10,000	=	$	1,000,000
XXXXXX	Drainage	LF		x		=	$	-

TOTAL DRAINAGE ITEMS $ 1,000,000

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT		x		=	$	-
XXXXXX	Bridge Deck Surfacing	SY	180,000	x	8.00	=	$	1,440,000
XXXXXX	Bridge Joints	LF	10,000	x	50.00	=	$	500,000
XXXXXX	Bridge Barrier	LF	40,000	x	150.00	=	$	6,000,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 7,940,000

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	0	x	200,000.00	=	$	-
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*-*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	200,000.00	=	$	200,000
XXXXXX	Pocket Parks	LS	1	x	400,000.00	=	$	400,000
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LS	1	x	100000	=	$	100,000
					Subtotal Erosion Control		*$*	*100,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**700,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	7,400,000.00	=	$	7,400,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	8	x	80,000.00	=	$	640,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	5	x	350,000.00	=	$	1,750,000
XXXXXX	ITS - CCTV	EA	10	x	20,000.00	=	$	200,000
XXXXXX	ITS - Signal Interconnect	LS	1	x	350,000.00	=	$	350,000
XXXXXX	ITS - Roadway Detectors (By Location)	EA	25	x	10,000.00	=	$	250,000
86XXXX	Fiber Optic Conduit System	LF		x		=	$	-
860401	Enhanced Lighting	LS	1	x	250,000.00	=	$	250,000

Subtotal Traffic Electrical $ *13,500,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	2	x	400,000.00	=	$	800,000
XXXXXX	Enhanced Signing	LS	1	x	40,000.00	=	$	40,000
846007	High Visibility Striping	LF	104,000	x	1.20	=	$	124,800
XXXXXX	Span OH Structure	EA		x		=	$	-
XXXXXX	OH Structure	EA	2	x		=	$	-
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	81,300	x	1.00	=	$	81,300

Subtotal Traffic Signing and Striping $ *1,646,100*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	1,500,000.00	=	$	1,500,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	0	x	20.00	=	$	-
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *1,500,000*

TOTAL TRAFFIC ITEMS $ 16,646,100

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 32,246,100

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	2,579,688
Total of Section 1-7	$	32,246,100	x	8.0%	=	$	2,579,688

TOTAL MINOR ITEMS $ 2,579,700

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	34,825,800	x	10%	=	$	3,482,580

TOTAL MOBILIZATION $ 3,482,600

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	34,825,800		4%	=	$	1,393,032

TOTAL SUPPLEMENTAL WORK $ 1,393,100

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	34,825,800		5%	= $	1,741,290

TOTAL STATE FURNISHED $1,741,300

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$34,825,800	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$41,442,800	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$2,089,548

TOTAL TIME-RELATED OVERHEAD $2,089,548

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)
Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	43,532,348	x	**25%**	=	$10,883,087

TOTAL CONTINGENCY $10,883,100

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	10/24/18	10/24/18	10/24/18
Bridge Name	THIRD ST UC - NB	THIRD ST UC - SB	PAUL AVE UC-NB
Bridge Number	340030	340030	340056
Structure Type	RC BOX GIRDER	RC BOX GIRDER	BOX GIRDER
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)	PILES	PILES	PILE
Cost Per Square Foot	$400	$400	$400
COST OF EACH	**$0**	**$0**	**$0**

	Bridge 4	Bridge 5	
DATE OF ESTIMATE	10/24/18	10/24/18	00/00/00
Bridge Name	PAUL AVE UC-SB	NEW CONNECTOR	xxxxxxxxxxxxxxxxxxx
Bridge Number	340056	XX-XXX	57-XXX
Structure Type	BOX GIRDER	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
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	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$400	$500	$0
COST OF EACH	**$0**	**$0**	**$0**

TOTAL COST OF BRIDGES		**$0**
TOTAL COST OF BUILDINGS		**$0**
Structures Mobilization Percentage	10%	**$0**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage	10%	**$0**
TOTAL COST OF STRUCTURES		**$0**

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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	$	0
	A2)	SB-1210	$	0
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	$	0
H)		Environmental Review	$	0
I)		Condemnation Settlements 0%	$	0
J)		Design Appreciation Factor 0%	$	0
K)		Utility Relocation (Construction Cost)	$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$0**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$0**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required

ALTERNATIVE 2B

SAN FRANCISCO COUNTY

PROJECT

PLANNING COST ESTIMATE ©

EA: 04-3J100K PID: 415000084

EA: 04-3J100K

PID: 415000084

District-County-Route: 04-SF-101/280

PM: 0.00-T7.226

Type of Estimate : Project Scope Summary Report

Program Code : STIP

Project Limits : San Mateo/San Francisco County Line to 280/5th Street

Project Description: Minimum Footprint w/Northbound direct connector

Scope : Addition of Managed Lane

Alternative : Alternative 2B

SUMMARY OF PROJECT COST ESTIMATE- San Francisco

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	$ 87,796,156	$ 98,872,731
TOTAL STRUCTURES COST	$ 181,608,000	$ 204,520,105
SUBTOTAL CONSTRUCTION COST	$ 269,404,156	$ 303,392,836
TOTAL RIGHT OF WAY COST	$ 43,119,703	$ 43,982,097
TOTAL CAPITAL OUTLAY COSTS	$ 312,524,000	$ 347,375,000
PA/ED SUPPORT	$ -	$ -
PS&E SUPPORT	$ -	$ -
RIGHT OF WAY SUPPORT	$ -	$ -
CONSTRUCTION SUPPORT	$ -	$ -
TOTAL SUPPORT COST	$ -	$ -
TOTAL PROJECT COST	$ 313,000,000	$ 348,000,000

If Project has been programmed enter Programmed Amount

Month / Year

Date of Estimate (Month/Year) _____ /

Estimated Construction Start (Month/Year) _____ /

Number of Working Days =

Estimated Mid-Point of Construction (Month/Year) _____ /

Estimated Construction End (Month/Year) _____ /

Number of Plant Establishment Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Reviewed by District O.E. or Cost Estimate Certifier

Office Engineer / Cost Estimate Certifier	Date	Phone
	xx/xx/xxxx	(xxx) xxx-xxxx

Approved by Project Manager

Project Manager	Date	Phone
	xx/xx/xxxx	(xxx) xxx-xxxx

I. ROADWAY ITEMS SUMMARY

	Section		Cost
1	**Earthwork**	$	156,000
2	**Pavement Structural Section**	$	7,095,500
3	**Drainage**	$	1,680,000
4	**Specialty Items**	$	13,315,000
5	**Environmental**	$	1,940,000
6	**Traffic Items**	$	20,441,800
7	**Detours**	$	-
8	**Minor Items**	$	3,570,300
9	**Roadway Mobilization**	$	4,819,900
10	**Supplemental Work**	$	1,928,000
11	**State Furnished**	$	2,410,000
12	**Time-Related Overhead**	$	12,880,356
13	**Roadway Contingency**	$	17,559,300
	TOTAL ROADWAY ITEMS	**$**	**87,796,156**

Estimate Prepared By :

Name and Title Date Phone

Estimate Reviewed By :

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

EA: 04-3J100K PID: 415000084

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price ($)			Cost
190101	Roadway Excavation	CY	12,000	x	13.00	=	$	156,000
152320	Lead Compliance Plan	LS		x		=	$	-
194001	Ditch Excavation	CY		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
192037	Structure Excavation (Retaining Wall)	CY		x		=	$	-
193013	Structure Backfill (Retaining Wall)	CY		x		=	$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		=	$	-
16010X	Clearing & Grubbing	LS/ACRE		x		=	$	-
170101	Develop Water Supply	LS		x		=	$	-
19801X	Imported Borrow	CY/TON		x		=	$	-
210130	Duff	ACRE		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL EARTHWORK SECTION ITEMS $ 156,000

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price ($)			Cost
401050	Jointed Plain Concrete Pavement	CY		x		=	$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		=	$	-
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		x		=	$	-
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		x		=	$	-
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		=	$	-
26020X	Class 2 Aggregate Base	CY		x		=	$	-
290201	Asphalt Treated Permeable Base	CY		x		=	$	-
250401	Class 4 Aggregate Subbase	CY		x		=	$	-
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		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX				x		=	$	-
XXXXXX	Pavement Rehabilitation	LS	1	x	4,000,000.00	=	$	4,000,000
839708	Concrete Barrier (Type 60GC)	LF	10,000	x	150.00	=	$	1,500,000
839700	Concrete Barrier (Type 732)	LF	8,300	x	100.00	=	$	830,000
XXXXXX	Pavement	SQFT	76,550	x	10	=	$	765,500

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS $ 7,095,500

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" Thi	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		=	$	-
XXXXXX	Drainage System Upgrades	EA	100	x	10,000	=	$	1,000,000
XXXXXX	Drainage	LF	4,000	x	170.00	=	$	680,000

TOTAL DRAINAGE ITEMS $ 1,680,000

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		x		=	$	-
510530	Minor Concrete (Wall)	CY		x		=	$	-
15325X	Remove Sound Wall	LF/LS		x		=	$	-
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		x		=	$	-
8395XX	Terminal System (Type CAT)	EA		x		=	$	-
839585	Alternative Flared Terminal System	EA		x		=	$	-
839584	Alternative In-line Terminal System	EA		x		=	$	-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF		x		=	$	-
839XXX	Crash Cushion (Insert Type)	EA		x		=	$	-
83XXXX	Concrete Barrier (Insert Type)	LF		x		=	$	-
520103	Bar Reinforced Steel (Retaining Wall)	LB		x		=	$	-
510060	Structural Concrete, Retaining Wall	SQFT	53,750	x	100.00	=	$	5,375,000
XXXXXX	Bridge Deck Surfacing	SY	180,000	x	8.00	=	$	1,440,000
XXXXXX	Bridge Joints	LF	10,000	x	50.00	=	$	500,000
XXXXXX	Bridge Barrier	LF	40,000	x	150.00	=	$	6,000,000
203070	Rock Stain	SQFT		x		=	$	-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT		x		=	$	-
83954X	Transition Railing (Type X)	EA		x		=	$	-
597601	Prepare and Stain Concrete	SQFT		x		=	$	-
839561	Rail Tensioning Assembly	EA		x		=	$	-
83958X	End Anchor Assembly (Type X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

TOTAL SPECIALTY ITEMS $ 13,315,000

EA: 04-3J100K PID: 415000084

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
	Environmental Mitigation	LS	1	x	340,000.00	=	$	340,000
130670	Temporary Reinforced Silt Fence	LF		x		=	$	-
141000	Temporary Fence (Type ESA)	LF		x		=	$	-
					Subtotal Environmental Mitigation		*$*	*340,000*

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Unit Price ($)			Cost
XXXXXX	Landscape/Hardscape	LS	1	x	200,000.00	=	$	200,000
XXXXXX	Pocket Parks	LS	1	x	400,000.00	=	$	400,000
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	SQFT/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		=	$	-
					Subtotal Landscape and Irrigation		*$*	*600,000*

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	SQFT/ACRE		x		=	$	-
210300	Hydromulch	SQFT		x		=	$	-
210420	Straw	SQFT		x		=	$	-
210430	Hydroseed	SQFT		x		=	$	-
210600	Compost	SQFT		x		=	$	-
XXXXXX	Temporary & Permanent BMP's	LS	1	x	1000000	=	$	1,000,000
					Subtotal Erosion Control		*$*	*1,000,000*

5D - NPDES

Item code		Unit	Quantity		Unit Price ($)			Cost
130300	Prepare SWPPP	LS		x		=	$	-
130200	Prepare WPCP	LS		x		=	$	-
130100	Job Site Management	LS		x		=	$	-
130330	Storm Water Annual Report	EA		x		=	$	-
130310	Rain Event Action Plan (REAP)	EA		x		=	$	-
130320	Storm Water Sampling and Analysis Day	EA		x		=	$	-
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		=	$	-
130900	Temporary Concrete Washout	LS		x		=	$	-
130710	Temporary Construction Entrance	EA		x		=	$	-
130610	Temporary Check Dam	LF		x		=	$	-
130620	Temporary Drainage Inlet Protection	EA		x		=	$	-
130730	Street Sweeping	LS		x		=	$	-
					Subtotal NPDES		*$*	*-*

TOTAL ENVIRONMENTAL	**$**	**1,940,000**

Supplemental Work for NPDES

066595	Water Pollution Control Maintenance Sharing*	LS		x		=	$	-
066596	Additional Water Pollution Control**	LS		x		=	$	-
066597	Storm Water Sampling and Analysis***	LS		x		=	$	-
XXXXXX	Some Item	LS		x		=	$	-
					Subtotal Supplemental Work for NDPS		*$*	*-*

*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
	Tolling System	LS	1	x	10,000,000.00	=	$	10,000,000
	Entrance Overhead Sign	EA		x		=	$	-
	Pricing Overhead Sign	EA		x		=	$	-
	Toll Gantry	EA		x		=	$	-
	Exit Overhead Sign	EA		x		=	$	-
XXXXXX	Transit Signal Priority	EA	2	x	80,000.00	=	$	160,000
XXXXXX	Ramp Metering (Adaptive)	EA	8	x	80,000.00	=	$	640,000
XXXXXX	TSMO/ITS Strategies	LS	1	x	2,500,000.00	=	$	2,500,000
5602XX	Install Sign Structure (Type X)	LB		x		=	$	-
498040	XX" CIDHC Pile (Sign Foundation)	LF		x		=	$	-
86080X	Inductive Loop Detectors	EA/LS		x		=	$	-
8609XX	Traffic Monitoring Station (Type X)	LS		x		=	$	-
XXXXXX	ITS - CMS	EA	5	x	350,000.00	=	$	1,750,000
XXXXXX	ITS - CCTV	EA	10	x	20,000.00	=	$	200,000
XXXXXX	ITS - Signal Interconnect	LS	1	x	350,000.00	=	$	350,000
XXXXXX	ITS - Roadway Detectors (By Location)	EA	25	x	10,000.00	=	$	250,000
86XXXX	Fiber Optic Conduit System	LF		x		=	$	-
860401	Enhanced Lighting	LS	1	x	250,000.00	=	$	250,000

Subtotal Traffic Electrical $ *16,100,000*

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		=	$	-
XXXXXX	Park & Ride Facilities	EA	1	x	200,000.00	=	$	200,000
XXXXXX	Bike/Ped Connectivity Improvements	EA	1	x	400,000.00	=	$	400,000
XXXXXX	Variable Speed Control	EA	2	x	400,000.00	=	$	800,000
XXXXXX	Enhanced Signing	LS	1	x	40,000.00	=	$	40,000
846007	High Visibility Striping	LF	104,000	x	1.20	=	$	124,800
XXXXXX	Span OH Structure	EA	2	x	300,000.00	=	$	600,000
XXXXXX	OH Structure	EA	3	x	150,000.00	=	$	450,000
861100	Ramp Metering System	LS		x		=	$	-
84XXXX	Permanent Pavement Delineation	LF	147,000	x	1.00	=	$	147,000

Subtotal Traffic Signing and Striping $ *2,761,800*

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price ($)			Cost
12865X	Portable Changeable Message Signs	EA/LS		x		=	$	-

Subtotal Traffic Management Plan $ *-*

6C - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price ($)			Cost
120199	Traffic Plastic Drum	EA		x		=	$	-
12016X	Channelizer (Type X)	EA		x		=	$	-
120120	Type III Barricade	EA		x		=	$	-
129100	Temporary Crash Cushion Module	EA		x		=	$	-
120100	Traffic Control System	LS	1	x	1,500,000.00	=	$	1,500,000
129110	Temporary Crash Cushion	EA		x		=	$	-
129000	Temporary Railing (Type K)	LF	4,000	x	20.00	=	$	80,000
120149	Temporary Pavement Marking (Paint)	SQFT		x		=	$	-
82010X	Delineator (Class X)	EA		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

Subtotal Stage Construction and Traffic Handling $ *1,580,000*

TOTAL TRAFFIC ITEMS $ 20,441,800

EA: 04-3J100K PID: 415000084

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	Some Item	LS		x		=	$	-

* Includes constructing, maintaining, and removal

TOTAL DETOURS $ -

SUBTOTAL SECTIONS 1 through 7 $ 44,628,300

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items							
ADA Items				0.0%		$	-
8B - Bike Path Items							
Bike Path Items				0.0%		$	-
8C - Other Minor Items							
Other Minor Items				8.0%		$	3,570,264
Total of Section 1-7	$	44,628,300	x	8.0%	=	$	3,570,264

TOTAL MINOR ITEMS $ 3,570,300

SECTIONS 9: MOBILIZATION

Item code								
999990	Total Section 1-8	$	48,198,600	x	10%	=	$	4,819,860

TOTAL MOBILIZATION $ 4,819,900

SECTION 10: SUPPLEMENTAL WORK

Item code		Unit	Quantity		Unit Price ($)			Cost
066670	Payment Adjustments For Price Index Fluctuations	LS		x		=	$	-
066094	Value Analysis	LS		x		=	$	-
066070	Maintain Traffic	LS		x		=	$	-
066919	Dispute Resolution Board	LS		x		=	$	-
066921	Dispute Resolution Advisor	LS		x		=	$	-
066015	Federal Trainee Program	LS		x		=	$	-
066610	Partnering	LS		x		=	$	-
066204	Remove Rock and Debris	LS		x		=	$	-
066222	Locate Existing Crossover	LS		x		=	$	-
XXXXXX	Some Item	Unit		x		=	$	-

*Cost of **NPDES** Supplemental Work specified in Section 5D* = $ -

Total Section 1-8	$	48,198,600		4%	=	$	1,927,944

TOTAL SUPPLEMENTAL WORK $ 1,928,000

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price ($)		Cost
066105	Resident Engineers Office	LS		x		=	$0
066063	Traffic Management Plan - Public Information	LS		x		=	$0
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		x		=	$0
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
XXXXXX	Some Item	Unit		x		=	$0
	Total Section 1-8	$	48,198,600		5%	= $	2,409,930

TOTAL STATE FURNISHED $2,410,000

SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	$214,672,600	(used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	$238,964,500	(used to check if project is greater than $5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **6%**

Item code		Unit	Quantity		Unit Price ($)		Cost
090100	Time-Related Overhead	WD	0	X	#DIV/0!	=	$12,880,356

TOTAL TIME-RELATED OVERHEAD $12,880,356

Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)
Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	$	70,236,856	x	**25%**	=	$17,559,214

TOTAL CONTINGENCY $17,559,300

EA: 04-3J100K PID: 415000084

II. STRUCTURE ITEMS

	Bridge 1				Bridge 2
DATE OF ESTIMATE	10/24/18		00/00/00		10/24/18
Bridge Name	THIRD ST UC - NB		xxxxxxxxxxxxxxxxxxx		PAUL AVE UC-NB
Bridge Number	340030		57-XXX		340056
Structure Type	RC BOX GIRDER		xxxxxxxxxxxxxxxxxxx		BOX GIRDER
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)	6900 SQFT		0 SQFT		2700 SQFT
Structure Depth (Feet)	0 LF		0 LF		0 LF
Footing Type (pile or spread)	PILES		xxxxxxxxxxxxxxxxxxx		PILE
Cost Per Square Foot	$400		$400		$400
COST OF EACH	**$2,760,000**		**$0**		**$1,080,000**

	Bridge 3				
DATE OF ESTIMATE	10/24/18		00/00/00		00/00/00
Bridge Name	NB DIRECT CONNECTOR		xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx
Bridge Number	(SOUTH OF I-280)		57-XXX		57-XXX
Structure Type	xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx
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)	295000 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	0 LF		0 LF		0 LF
Footing Type (pile or spread)	xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	$500		$0		$0
COST OF EACH	**$147,500,000**		**$0**		**$0**

TOTAL COST OF BRIDGES	**$151,340,000**
TOTAL COST OF BUILDINGS	**$0**

Structures Mobilization Percentage 10% **$15,134,000**

Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage 10% **$15,134,000**

TOTAL COST OF STRUCTURES $181,608,000

Estimate Prepared By: _____ _____

XXXXXXXXXXXXXXXXX ------ Division of Structures Date

EA: 04-3J100K PID: 415000084

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		$	40,119,703
	A2)	SB-1210		$	0
B)		Acquisition of Offsite Mitigation		$	0
C)	C1)	Utility Relocation (State Share)		$	3,000,000
	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		$	0
H)		Environmental Review		$	0
I)		Condemnation Settlements	0%	$	0
J)		Design Appreciation Factor	0%	$	0
K)		Utility Relocation (Construction Cost)		$	0

L)	**TOTAL RIGHT OF WAY ESTIMATE**	**$43,119,703**
M)	**TOTAL R/W ESTIMATE: Escalated**	**$43,982,097**
N)	**RIGHT OF WAY SUPPORT**	**$0**

Support Cost Estimate Prepared By _____
Project Coordinator[1] Phone

Utility Estimate Prepared By _____
Utility Coordinator[2] Phone

R/W Acquisition Estimate Prepared By _____
Right of Way Estimator[3] Phone

Note: Items G & H applied to items A + B

[1] When estimate has Support Costs only [2] When estimate has Utility Relocation [3] When R/W Acquisition is required