

ATTACHMENT C

Alternative B

Preliminary Cost Estimate

I-80 Express Lanes
Preliminary Project Cost Estimate Summary

District-County-Route:	04-Sol.-80
PM:	11.2-29.3
Project No.:	0412000332K
Program Code:	HB4C

PROJECT DESCRIPTION:

Limits: I-80 Express Lanes - Red Top Road to I-505

Scope: Alternative B - HOV conversion and proposed widening of
I-80, replacement of non-standard interchanges, placement of median barrier,
continuous ingress/egress striping and CHP enforcement areas.

SUMMARY OF PROJECT COST ESTIMATE

PROJECT CONSTRUCTION COSTS

ROADWAY ITEMS (2011 Value)	\$ 770,982,000
STRUCTURE ITEMS (2011 Value)	\$ 129,780,000
SUBTOTAL CONSTRUCTION (2011 Value)	\$ 900,762,000

CAPITAL OUTLAY SUPPORT

ENGINEERING (18% of Construction Costs)	\$ 162,137,000
RIGHT OF WAY SUPPORT (12% of R/W Costs)	\$ 8,686,000
CONSTRUCTION SUPPORT (15% of Construction Costs)	\$ 162,137,000
SUBTOTAL CAPITAL OUTLAY SUPPORT	\$ 332,960,000

ESCALATED PROJECT COSTS

ROADWAY ITEMS (2015 Value)	\$ 842,750,000
STRUCTURE ITEMS (2015 Value)	\$ 141,860,000
SUBTOTAL CONSTRUCTION (2015 Value)	\$ 984,610,000
RIGHT OF WAY (2015 Value)	\$ 72,381,000
CAPITAL OUTLAY SUPPORT (From Above)	\$ 332,960,000
TOTAL ESCALATED PROJECT COST (2015 Value)	\$ 1,390,000,000

02/17/12

(Date)

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I. ROADWAY ITEMS

<u>Section 1 - Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>	<u>Section Cost</u>
Roadway Excavation	6,160,000	CY	\$15	\$92,400,000	
Imported Borrow	0	CY	\$10	\$0	
Clearing & Grubbing	1	LS	\$570,000	\$570,000	
Develop Water Supply	1	LS	\$140,000	\$140,000	
Top Soil Reapplication	1	LS	\$60,000	\$60,000	
Stepped Slopes and Slope Rounding (Contour Grading)	1	LS	\$150,000	\$150,000	
Contaminated Soil Excavation (Type Y-1) (ADL)	572,000	CY	\$20	\$11,440,000	
Contaminated Soil Excavation (Type Y-2) (ADL)	386,000	CY	\$30	\$11,580,000	
Contaminated Soil Excavation (Type Z-2) (ADL)	19,100	CY	\$200	\$3,820,000	
			Subtotal Earthwork		\$120,160,000
<u>Section 2 - Structural Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>	<u>Section Cost</u>
Asphalt Concrete (Open Graded)	159,000	Ton	\$80	\$12,720,000	
Asphalt Concrete (HMA)	400,000	Ton	\$90	\$36,000,000	
Lean Concrete Base	198,000	CY	\$110	\$21,780,000	
Class 3 Aggregate Base	0	CY	\$0	\$0	
Class 4 Aggregate Subbase	474,000	CY	\$20	\$9,480,000	
Treated Permeable Base	0	CY	\$0	\$0	
Subgrade Enhancement Fabric	63,400	SQYD	\$1.00	\$63,400	
Remove OGAC	1,730,000	SQYD	\$2.00	\$3,460,000	
			Subtotal Pavement Structural Section		\$83,503,400
<u>Section 3 - Drainage</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>	<u>Section Cost</u>
Large Drainage Facilities	7	EA	\$250,000	\$1,750,000	
Project Drainage	1	LS	\$9,000,000	\$9,000,000	
Hydromodification	1	LS	\$3,000,000	\$3,000,000	
Grated Line Drain	0	LF	\$130	\$0	
Edge Drains	0	LF	\$0	\$0	
			Subtotal Drainage		\$13,750,000

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<u>Section 4 - Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>	<u>Section Cost</u>
Retaining Walls ⁽¹⁾	315,000	SQFT	\$150	\$47,250,000	
Soundwalls ⁽¹⁾	253,000	SQFT	\$16	\$4,048,000	
Equipment/Animal Passes	0	EA	\$0	\$0	
Water Pollution Control	1	LS	\$30,000,000	\$30,000,000	
Hazararoudous Waste Investigation and/or Mitigation Work	0	LS	\$0	\$0	
R/W Fence	51,700	LF	\$12	\$620,400	
Environmental Compliance	0	LS	\$0	\$0	
Concrete Barrier	89,500	LF	\$48	\$4,296,000	
MBGR	1	LS	\$300,000	\$300,000	
Remove Concrete Barrier	11,000	LF	\$20	\$220,000	
Remove K-Rail	49,900	LF	\$2	\$99,800	
Remove MBGR	8,490	LF	\$8	\$69,194	
Remove Thrie Beam Railing	51,900	LF	\$10	\$519,000	
Remove Sound Wall	135,000	SQFT	\$4	\$540,000	
Remove Existing Facilities ⁽²⁾	1	LS	\$100,000	\$100,000	
Resident Engineer Office	1	LS	\$500,000	\$500,000	
Interchange Replacement - Small	1	LS	\$13,600,000	\$13,600,000	
Interchange Replacement - Medium	1	LS	\$70,200,000	\$70,200,000	
Interchange Replacement - Large	1	LS	\$60,500,000	\$60,500,000	
			Subtotal Specialty Items		\$232,862,394
<u>Section 5 - Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>	<u>Section Cost</u>
Lighting (New & Relocate)	1	LS	\$205,000	\$205,000	
Traffic Delineation Items	1	LS	\$480,000	\$480,000	
Traffic Signals	0	LS	\$0	\$0	
Traffic Operating Systems	1	LS	\$1,000,000	\$1,000,000	
Roadside Sign	1	LS	\$200,000	\$200,000	
Overhead Sign	17	EA	\$200,000	\$3,400,000	
Lightweight Overhead Gantry	34	EA	\$100,000	\$3,400,000	
Bridge Mounted Sign	6	EA	\$80,000	\$480,000	
Traffic Control System	1	LS	\$570,000	\$570,000	
Transportation Management Plan	1	LS	\$500,000	\$500,000	
System Integrator and Hardware	1	LS	\$10,600,000	\$10,600,000	
K-Rail	111,000	LF	\$10	\$1,110,000	
Stage Construction	1	LS	\$2,100,000	\$2,100,000	
			Subtotal Traffic Items		\$24,045,000

(1) MSE and Non-Standard Retaing Walls are included in the Structures Section

(2) Removal of Existing Facilities entails Curb & Gutter, Sidewalk, Lighting, etc.

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<u>Section 6: Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>	<u>Section Cost</u>
Highway Planting	0	AC	\$0	\$0	
Replacement Planting	0	AC	\$0	\$0	
Irrigation Modification	1	LS	\$250,000	\$250,000	
Relocate Existing Irrigation	1	LS	\$375,000	\$375,000	
Irrigation Crossovers	1	LS	\$25,000	\$25,000	
			Subtotal Planting and Irrigation		\$650,000

<u>Section 7: Roadside Management & Safety</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Unit Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments	1	LS	\$100,000	\$100,000	
Gore Area Pavement	1	LS	\$50,000	\$50,000	
Pavement Beyond Gore Area	1	LS	\$50,000	\$50,000	
Miscellaneous Paving	1	LS	\$100,000	\$100,000	
Erosion Control	1	LS	\$3,350,000	\$3,350,000	
Slope Protection	1	LS	\$100,000	\$100,000	
Side Slopes/Embankment Slopes	1	LS	\$100,000	\$100,000	
Maintenance Vehicle Pull Outs	0	EA	\$0	\$0	
Roadside Facilities (Crash Cushions)	1	LS	\$50,000	\$50,000	
Off-Freeway Access (Gates, etc.)	0	LS	\$0	\$0	
			Subtotal Roadside Management & Safety		\$3,900,000

TOTAL SECTIONS: 1 thru 7 **\$478,870,794**

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			<u>Unit Cost</u>	<u>Section Cost</u>
<u>Section 8 - Minor Items</u>	(Includes 10% TRO)			
Subtotal Sections 1 - 7	<u>\$478,870,794</u>	X <u>15%</u>	<u>\$71,830,619</u>	
			TOTAL MINOR ITEMS:	<u>\$71,831,000</u>
 <u>Section 9 - Roadway Mobilization</u>				
Subtotal Sections 1 - 8	<u>\$550,701,413</u>	X <u>10%</u>	<u>\$55,070,141</u>	
			TOTAL ROADWAY MOBILIZATION	<u>\$55,070,000</u>
 <u>Section 10 - Roadway Additions</u>				
Supplemental Work				
Subtotal Sections 1 - 8	<u>\$550,701,413</u>	X <u>10%</u>	<u>\$55,070,141</u>	
Contingencies				
Subtotal Sections 1 - 8	<u>\$550,701,413</u>	X <u>20%</u>	<u>\$110,140,283</u>	
			TOTAL ROADWAY ADDITIONS	<u>\$165,210,000</u>
			TOTAL ROADWAY ITEMS	<u>\$770,982,000</u>
				(Total of Sections 1 - 8)

Estimate
 Prepared By: Sean Charles, P.E. (510) 698-6300 02/17/12
 (Print Name) (Phone) (Date)

Estimate
 Checked By: Brian Stewart, P.E. (925) 974-2572 02/17/12
 (Print Name) (Phone) (Date)

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II. STRUCTURES ITEMS

Bridge Name	<u>Red Top Road Undercrossing</u> 23-0165 Widen Existing EB	<u>Green Valley Creek Bridge</u> 23-0004 Widen Existing	<u>Dan Wilson Creek Bridge</u> 23-0006 Widen Existing	<u>Suisun Creek Bridge</u> 23-0007 Widen Existing	<u>W Fairfield Ped UC</u> 23-0093 Widen Existing
Structure Type	_____	_____	_____	_____	_____
New Width (Ft)	_____	_____	_____	_____	_____
Widening Width (Ft)	_____	_____	_____	_____	_____
Retrofit Width (Ft)	_____	_____	_____	_____	_____
Span Lengths (Ft)	_____	_____	_____	_____	_____
Total New Area (SQ Ft)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Widening Area (SQ Ft)	<u>523</u>	<u>1,972</u>	<u>2,155</u>	<u>2,250</u>	<u>4,980</u>
Total Retrofit Area (SQ.Ft)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Footing Type (pile/spread)	_____	_____	_____	_____	_____
Cost per Sq. ft of New	<u>\$250</u>	<u>\$250</u>	<u>\$250</u>	<u>\$250</u>	<u>\$250</u>
Cost per Sq. ft of Widening	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>
Cost per Sq. ft of Retrofit	<u>\$16</u>	<u>\$16</u>	<u>\$16</u>	<u>\$16</u>	<u>\$16</u>
Including: Mobilization: 10% Contingency: 20%					
Total Cost for Widening	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Total Cost for Widening	<u>\$ 157,000</u>	<u>\$ 592,000</u>	<u>\$ 647,000</u>	<u>\$ 675,000</u>	<u>\$ 1,494,000</u>
Total Cost for Retrofit	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Bridge Removal	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Total Cost for Structures	<u>\$ 157,000</u>	<u>\$ 592,000</u>	<u>\$ 647,000</u>	<u>\$ 675,000</u>	<u>\$ 1,494,000</u>
Railroad Related Costs	_____	_____	_____	_____	_____
				TOTAL STRUCTURE ITEMS	<u>\$ 3,565,000</u>
				(Structure Sheet A)	

COMMENTS:

Estimate Prepared By: Sean Charles, PE 02/17/12
(Date)

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II. STRUCTURES ITEMS

Bridge Name	Suisun Valley Road Overcrossing	Ledgewood Creek Bridge	Ledgewood Creek Bridge	W Texas Street Undercrossing	Ped UC for W Texas On-Ramp
	23-0140 Relocated	23-0008 L/R Reconstructed	23-0008 S Reconstructed	23-0106 L/R Reconstructed	TBD New
Structure Type					
New Width (Ft)	47.00	136.00	137.00	284.00	74.00
Widening Width (Ft)					
Retrofit Width (Ft)					
Span Lengths (Ft)	422.0	211.0	36.0	184.0	36.0
Total New Area (SQ Ft)	19,834	28,696	4,932	52,256	2,664
Total Widening Area (SQ Ft)	0	0	0	0	0
Total Retrofit Area (SQ.Ft)	0	0	0	0	0
Footing Type (pile/spread)					
Cost per Sq. ft of New	\$250	\$250	\$250	\$250	\$250
Cost per Sq. ft of Widening	\$300	\$300	\$300	\$300	\$300
Cost per Sq. ft of Retrofit	\$16	\$16	\$16	\$16	\$16
Including: Mobilization: 10% Contingency: 20%					
Total Cost for Widening	\$ 4,545,000	\$ 6,893,500	\$ 1,172,500	\$ 12,465,000	\$ 666,000
Total Cost for Widening	\$ -	\$ -	\$ -	\$ -	\$ -
Total Cost for Retrofit	\$ -	\$ -	\$ -	\$ -	\$ -
Bridge Removal	\$ 414,000	\$ 280,500	\$ 60,500	\$ 599,000	\$ -
Total Cost for Structures	\$ 4,959,000	\$ 7,174,000	\$ 1,233,000	\$ 13,064,000	\$ 666,000
Railroad Related Costs					
TOTAL STRUCTURE ITEMS					\$ 27,096,000
(Structure Sheet B)					

COMMENTS:

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(Date)

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II. STRUCTURES ITEMS

Bridge Name	Travis Blvd Overcrossing 23-0061 R/L Reconstructed	North Texas Overcrossing 23-0102 Reconstructed	Cherry Glen Overcrossing 23-0160 Relocated	Rivera Rd Overcrossing 23-0107 Reconstructed	Alamo Creek Bridge 23-0010 Widen Existing
Structure Type					
New Width (Ft)	100.00	88.00	46.00	46.00	
Widening Width (Ft)					50.00
Retrofit Width (Ft)					
Span Lengths (Ft)	355.0	295.0	264.0	297.0	140.0
Total New Area (SQ Ft)	35,500	25,960	12,144	13,662	0
Total Widening Area (SQ Ft)	0	0	0	0	7,000
Total Retrofit Area (SQ.Ft)	0	0	0	0	0
Footing Type (pile/spread)					
Cost per Sq. ft of New	\$250	\$250	\$250	\$250	\$250
Cost per Sq. ft of Widening	\$300	\$300	\$300	\$300	\$250
Cost per Sq. ft of Retrofit	\$16	\$16	\$16	\$16	\$16
Including: Mobilization: 10% Contingency: 20%					
Total Cost for Widening	\$ 8,286,500	\$ 6,075,000	\$ 2,875,500	\$ 3,223,000	\$ -
Total Cost for Widening	\$ -	\$ -	\$ -	\$ -	\$ 1,750,000
Total Cost for Retrofit	\$ -	\$ -	\$ -	\$ -	\$ -
Bridge Removal	\$ 588,500	\$ 415,000	\$ 160,500	\$ 193,000	\$ -
Total Cost for Structures	\$ 8,875,000	\$ 6,490,000	\$ 3,036,000	\$ 3,416,000	\$ 1,750,000
Railroad Related Costs					
TOTAL STRUCTURE ITEMS					\$ 23,567,000
(Structure Sheet C)					

COMMENTS:

Estimate Prepared By: Sean Charles, PE 02/17/12
(Date)

District-County-Route: 04-Sol.-80
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II. STRUCTURES ITEMS

Bridge Name	Alamo Creek WB On-Ramp	Alamo Creek EB Ramps	Alamo Dr Overcrossing	Davis Street Overcrossing	Mason Street Undercrossing
	TBD New	TBD New	23-0013 Relocated	23-0023 L/R Relocated	23-0051 L/R Widen Existing
Structure Type					
New Width (Ft)	40.00	95.00	116.00	114.00	
Widening Width (Ft)					60.00
Retrofit Width (Ft)					
Span Lengths (Ft)	130.0	175.0	360.0	290.0	300.0
Total New Area (SQ Ft)	5,200	16,625	41,760	33,060	0
Total Widening Area (SQ Ft)	0	0	0	0	18,000
Total Retrofit Area (SQ.Ft)	0	0	0	0	0
Footing Type (pile/spread)					Spread
Cost per Sq. ft of New	\$250	\$250	\$250	\$250	\$130
Cost per Sq. ft of Widening	\$300	\$300	\$300	\$300	\$340
Cost per Sq. ft of Retrofit	\$16	\$16	\$16	\$16	\$16
Including: Mobilization: 10% Contingency: 20%					
Total Cost for Widening	\$ 1,300,000	\$ 4,156,000	\$ 9,855,000	\$ 7,701,000	\$ -
Total Cost for Widening	\$ -	\$ -	\$ -	\$ -	\$ 6,120,000
Total Cost for Retrofit	\$ -	\$ -	\$ -	\$ -	\$ -
Bridge Removal	\$ -	\$ -	\$ 585,000	\$ 564,000	\$ -
Total Cost for Structures	\$ 1,300,000	\$ 4,156,000	\$ 10,440,000	\$ 8,265,000	\$ 6,120,000
Railroad Related Costs					
TOTAL STRUCTURE ITEMS					\$ 30,281,000
(Structure Sheet D)					

COMMENTS:

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(Date)

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II. STRUCTURES ITEMS

Bridge Name	<u>Ulatis Creek Bridge</u> 23-0052 L/R Widen Existing	<u>Nut Tree Rd Overcrossing</u> 23-0145 Relocated	<u>Pine Tree Crk Bridge</u> 23-0036 L Widen Existing	<u>Horse Creek Bridge</u> 23-0011 L Widen Existing	<u>80E to 505N Connector</u> 23-0104G Relocated
Structure Type					
New Width (Ft)		136.00			40.00
Widening Width (Ft)	75.00		35.00	22.00	
Retrofit Width (Ft)					
Span Lengths (Ft)	210.0	265.0	105.0	130.0	1,000.0
Total New Area (SQ Ft)	0	36,040	0	0	40,000
Total Widening Area (SQ Ft)	15,750	0	3,675	2,860	0
Total Retrofit Area (SQ.Ft)	0	0	0	0	0
Footing Type (pile/spread)	CIDH				
Cost per Sq. ft of New	\$130	\$250	\$250	\$250	\$250
Cost per Sq. ft of Widening	\$300	\$300	\$300	\$300	\$300
Cost per Sq. ft of Retrofit	\$16	\$16	\$16	\$16	\$16
Including: Mobilization: 10% Contingency: 20%					
Total Cost for Widening	\$ -	\$ 8,339,500	\$ -	\$ -	\$ 9,634,000
Total Cost for Widening	\$ 4,725,000	\$ -	\$ 1,103,000	\$ 858,000	\$ -
Total Cost for Retrofit	\$ -	\$ -	\$ -	\$ -	\$ -
Bridge Removal	\$ -	\$ 670,500	\$ -	\$ -	\$ 366,000
Total Cost for Structures	\$ 4,725,000	\$ 9,010,000	\$ 1,103,000	\$ 858,000	\$ 10,000,000
Railroad Related Costs					
TOTAL STRUCTURE ITEMS					\$ 25,696,000
(Structure Sheet E)					

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(Date)

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II. STRUCTURES ITEMS

Bridge Name	505S to 80E Connector 23-0146F Relocated	Grassland Dr Overcrossing TBD New	Horse Creek Bridge 23-0073 R Widen Existing		
Structure Type					
New Width (Ft)	40.00	100.00	60.00		
Widening Width (Ft)					
Retrofit Width (Ft)					
Span Lengths (Ft)	1,400.0	160.0	105.0		
Total New Area (SQ Ft)	56,000	16,000	6,300		
Total Widening Area (SQ Ft)	0	0	0		
Total Retrofit Area (SQ.Ft)	0	0	0		
Footing Type (pile/spread)					
Cost per Sq. ft of New	\$250	\$250	\$250		
Cost per Sq. ft of Widening	\$300	\$300	\$300		
Cost per Sq. ft of Retrofit	\$16	\$16	\$16		
Including: Mobilization: 10% Contingency: 20%					
Total Cost for Widening	\$ 13,842,500	\$ 4,000,000	\$ 1,575,000		
Total Cost for Widening	\$ -	\$ -	\$ -		
Total Cost for Retrofit	\$ -	\$ -	\$ -		
Bridge Removal	\$ 157,500	\$ -	\$ -		
Total Cost for Structures	\$ 14,000,000	\$ 4,000,000	\$ 1,575,000		
Railroad Related Costs					
			TOTAL STRUCTURE ITEMS	\$ 19,575,000	
			(Structure Sheet F)		
			TOTAL COMBINED STRUCTURE ITEMS	\$ 129,780,000	
			(Structure Sheets A-F)		

COMMENTS:

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(Date)

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III. RIGHT OF WAY ITEMS

Right-of-Way estimates should consider the probable highest and best use and type and intent of improvements at the time of acquisition. Assume acquisition including utility relocation occurs at the right of way certification milestone as shown in the Funding and Scheduling Section of the PSR. For further guidance see Chapter 1, Caltrans Right of Way Procedural Handbook.

	Current Values (Future Use) (2011)	Escalation Rate (%/yr)	Escalated Value (2015)
A. Acquisition (Fee & TCE), including excess lands and damages to remainders	\$53,200,000	5%/Yr	\$ 64,665,000
B. Utility Relocation (State share)	\$6,000,000	5%/Yr	\$ 7,290,000
C. Relocation Assistance	\$ -	5%/Yr	\$ -
D. Clearance / Demolition	\$ -	5%/Yr	\$ -
E. R/W Services - Title and Escrow Fees	\$ 300,000	5%/Yr	\$ 365,000
Easement (Utility Corridor)	\$ 50,000	5%/Yr	\$ 61,000
TOTAL RIGHT OF WAY ITEMS	\$ 59,550,000		\$72,381,000

F. Construction Contract Work

Brief Description of Work:

Right of Way Branch Cost Estimate for Work* _____

amount is to

COMMENTS:

Estimate prepared by: Brian Stewart, P.E. (925) 974-2572 02/17/12
 (Print Name) (Phone) (Date)