PRELIMINARY PROJECT REPORT ESTIMATE

03-SAC-05
EA 03-3C0000
(PM 9.7/22.5)

PROJECT DESCRIPTION:

Limits: **Phase 1 & Phase 2** (PM 9.7 to 22.5)

Proposed Improvement (Scope): Construct HOV Lanes

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	$ 93,500,000
TOTAL STRUCTURE ITEMS	$ 15,100,000
SUBTOTAL CONSTRUCTION COSTS	$ 108,600,000
TOTAL RIGHT OF WAY ITEMS	$ 2,400,000
TOTAL PROJECT COSTS	**$111,000,000**

Note: See Programming Sheet for construction year escalation factors

PRELIMINARY PROJECT REPORT ESTIMATE SUMMARY

03-SAC-05
EA 03-3C0000
(PM 9.7/22.5)

PROJECT DESCRIPTION:

Limits: **Phase 1**, From North of Morrison Creek to the US 50 Interchange (PM 13.0 to 22.5)

Proposed Improvement (Scope): Construct HOV Lanes

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	$	63,900,000
TOTAL STRUCTURE ITEMS	$	12,000,000
SUBTOTAL CONSTRUCTION COSTS	$	75,900,000
TOTAL RIGHT OF WAY ITEMS	$	900,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	**$**	**76,800,000**

Note: See Programming Sheet for construction year escalation factors

I. ROADWAY ITEMS

Section 1 Earthwork	Quantity	Unit	Unit Price	Item Cost	Section Cost
Roadway Excavation	136,233	CY	$ 12	$ 1,634,796	
Clearing & Grubbing	1	LS	$ 100,000	$ 100,000	
Cold Plane	128,836	SQYD	$ 1	$ 128,836	
Minor Concrete	55	cy	$ 500	$ 27,500	

Subtotal Earthwork $ 1,891,132

Section 2 Pavement Structural Section	Quantity	Unit	Unit Price	Item Cost	Section Cost
1. Asphalt Concrete (RAC) Type O	48,668	TON	$ 100	$ 4,866,800	
2. Asphalt Concrete (Dense Grade, Type A)	72,265	TON	$ 80	$ 5,781,200	
3. Aggregate Base	99,316	CY	$ 35	$ 3,476,060	

Subtotal Pavement Structural Section $ 14,124,060

Section 3 Drainage	Quantity	Unit	Unit Price	Item Cost	Section Cost
1. RR DI	10	EA	$ 5,000	$ 50,000	
2. Abandon Culvert	170	FT	$ 70	$ 11,900	
3. Remove Culvert	70	FT	$ 80	$ 5,600	
4. Install DI	5	EA	$ 5,000	$ 25,000	
5. Extend Culverts 8"	300	FT	$ 80	$ 24,000	
6. Extend Culverts 18"	150	FT	$ 150	$ 23,000	
7. Extend Culverts 24"	225	FT	$ 170	$ 38,000	
8. Extend Culverts 30"	100	FT	$ 220	$ 22,000	
9. Extend Culverts 36"	200	FT	$ 250	$ 50,000	
10. 18" FES	2	EA	$ 625	$ 1,000	
11. 24" FES	3	EA	$ 645	$ 2,000	
12. 30" FES	1	EA	$ 740	$ 1,000	
13. 36" FES	2	EA	$ 900	$ 2,000	
14. SWPPP	1	LS	$ 8,000	$ 8,000	
Grated Line Drain	23,800	LF	$ 150	$ 3,570,000	

Subtotal Drainage $ 3,833,500

Section 4 Specialty Items	Quantity	Unit	Unit Price	Item Cost	Section Cost
1. Soundwalls/Retaining Walls	3,300	SQFT	$ 40	$ 132,000	
2. Environmental - Permit and Mitigation Costs	1	LS	$ 100,000	$ 100,000	
3. Aesthetic Treatment	1	LS	$ 400,000	$ 400,000	
4. Environmental - Non-Mitigation	1	LS	$ 65,000	$ 65,000	
5. Erosion Control	10,000	SQYD	$ 3	$ 25,000	
6. Plant (Group U)	500	EA	$ 110	$ 55,000	
7. Replace Highway Planting and Irrigation	13	AC	$ 100,000	$ 1,275,000	
8. Plant Establishment	1	LS	$ 250,000	$ 250,000	
9. AB for Maintenance Acess Path	10,000	CY	$ 75	$ 750,000	
10. Paving for Maintenance Worker Safety	100	CY	$ 400	$ 40,000	
11. Soundwall Aesthetics	1	LS	$ 144,000	$ 144,000	
12. Tree Removal	500	EA	$ 500	$ 250,000	
13. Water Connections	6	EA	$ 50,000	$ 300,000	
14. Remove Dbl Thrie-Beam Barrier	400	FT	$ 15	$ 6,000	
15. Concrete Median Barrier (Type 60)	26,748	FT	$ 50	$ 1,337,400	
16. Concrete Median Barrier (Type 60D)		FT	$ 75	$ -	
17. Temporary Railing (Type K)	124,000	FT	$ 20	$ 2,480,000	
18. Temporary Crash Cushion	6	EA	$ 600	$ 3,600	
19. Safety shape Concrete Barrier (Type 27)	26,874	FT	$ 60	$ 1,612,440	
20. Remove Exist Concrete Barrier (Type 50)	28,058	FT	$ 50	$ 1,402,900	
21. Remove/Replace Failed PCC slabs*	-		$ -	$ -	
22. NPDES (includes construction BMPs)	1	LS	$ 1,000,000	$ 1,000,000	

*Not included in this project

Subtotal Specialty Items $ 11,628,340

Section 5 Traffic Items	Quantity	Unit	Unit Price	Item Cost	Section Cost
1. COZEEP	**300**	DAYS	$ 2,000	$ 600,000	
2. Traffic Management Plan/Traffic Control	**300**	DAYS	$ 1,300	$ 390,000	
3. Traffic Lighting and Electrical	**1**	LS	$ 2,000,000	$ 2,000,000	
4. TOS	**1**	LS	$ 1,250,000	$ 1,250,000	
5. Construction Area Signs	**1**	LS	$ 100,000	$ 100,000	
6. Signing and Striping	**1**	LS	$ 4,200,000	$ 4,200,000	
7. Portable Chageable Message Signs	**15**	EA	$ 2,600	$ 39,000	

Subtotal Traffic Items $ 8,579,000

TOTAL SECTIONS 1 thru 5 $ 40,056,032

Section 6 Minor Items — **Section Cost**

$ 40,056,032 (Subtotal Sections 1 thru 5) x (10%) = $ 4,005,603

Subtotal Minor Items $ 4,005,603

Section 7 Roadway Mobilization — **Section Cost**

$ 44,061,635 (Subtotal Sections 1 thru 6) x (10%) = $ 4,406,164

Subtotal Roadway Mobilization $ 4,406,164

Section 8 Roadway Additions — **Section Cost**

Supplemental Work

$ 44,061,635 (Subtotal Sections 1 thru 6) x (10%) = $ 4,406,164

Contingencies

$ 44,061,635 (Subtotal Sections 1 thru 6) x (25%) = $ 11,015,409

Subtotal Roadway Additions $ 15,421,572

TOTAL ROADWAY ITEMS $ 63,889,371
(Subtotal Sections 1 thru 8)

CALL $ 63,900,000

Estimate Prepared By	Nancy Xu (Print Name)	**Phone #**	530-741-4558	**Date**	12/12/2012
Estimate Checked By	Jerry Cagle (Print Name)	**Phone #**	530-741-4534	**Date**	1/3/2013

II. STRUCTURES ITEMS

Structure	Quantity	Unit	Unit Price	Item Cost
Land Park UP (24-0226)	1	LS	$ 58,000	$ 58,000
Sutterville Rd OC (24-0256)	1	LS	$ 2,267,000	$ 2,267,000
Rte 5/160 Sep & OH (24-0296)	1	LS	$ 5,605,000	$ 5,605,000
Casilida Way POC (24-0254)	1	LS	$ 3,478,000	$ 3,478,000
Gloria Drive OC (254-0258)	1	LS	$ 570,000	$ 570,000

Subtotal Structures Items $ 11,978,000

Railroad Related Costs: _____ $ -

_____ $ -

_____ $ -

Subtotal Railroad Items $ -

TOTAL STRUCTURES ITEMS $ 11,978,000

CALL $ 12,000,000

COMMENTS:

Estimate Prepared By Eric Burgeson (Print Name) **Phone #** 916-227-8446 **Date** 10/31/2012

NOTE: If appropriate, attach additional pages and backup

III. RIGHT OF WAY ITEMS

	CURRENT VALUES	ESCALATION RATES	ESCALATED VALUE
A. Total Acquisition Cost	$ 178,750	5%	$ 226,828
B. Mitigation acquisition & credits	$ -	5%	$ -
C. Project development Permit Fees	$ 3,000	0%	$ 3,807
D. Utility Relocation (State Share)	$ 520,000	2%	$ 659,863
E. Relocation Assistance (RAP	$ -	0%	$ -
F. Clerance/Demolition	$ -	0%	$ -
G. Title & Escrow		0%	

TOTAL RIGHT OF WAY ITEMS $ 890,000

Anticipated Date of Right of Way Certification: 1-Oct-16
(Date to which Values are Escalated)

F. Construction Contract Work

Brief Description of Work:

Right of Way Branch Cost Estimate for Work*

*This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate.
Do Not include in Right of Way Items.

COMMENTS:

Estimate Prepared By Lee Ann Lambirth (Print Name) **Phone #** 530-741-5140 **Date** 11/18/2011

NOTE: If appropriate, attach additional pages and backup

PRELIMINARY PROJECT REPORT ESTIMATE SUMMARY

03-SAC-05
EA 03-3C0000
(PM 9.7/22.5)

PROJECT DESCRIPTION:

Limits: Phase 2, 1.1 mile south of Elk Grove Blvd to south of Morrison Creek (PM 9.7 To 13.0)

Proposed Improvement (Scope): Construct HOV Lanes

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	$	29,600,000
TOTAL STRUCTURE ITEMS	$	3,100,000
SUBTOTAL CONSTRUCTION COSTS	$	32,700,000
TOTAL RIGHT OF WAY ITEMS	$	1,500,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	**$**	**34,200,000**

Note: See Programming Sheet for construction year escalation factors

I. ROADWAY ITEMS

Section 1 Earthwork	Quantity	Unit	Unit Price	Item Cost	Section Cost
Roadway Excavation	**116,217**	CY	$ 12	$ 1,394,604	
Clearing & Grubbing	**1**	LS	$ 100,000	$ 100,000	
Cold Plane	**115,890**	SQFT	$ 1	$ 115,890	

Subtotal Earthwork $ 1,610,494

Section 2 Pavement Structural Section	Quantity	Unit	Unit Price	Item Cost	Section Cost
1. Asphalt Concrete (RAC) Type O	**17,350**	TON	$ 100	$ 1,735,000	
2. Asphalt Concrete (Dense Grade, Type A)	**41,785**	TON	$ 80	$ 3,342,800	
3. Aggregate Base	**94,872**	CY	$ 35	$ 3,320,520	

Subtotal Pavement Structural Section $ 8,398,320

Section 3 Drainage	Quantity	Unit	Unit Price	Item Cost	Section Cost
1. RR DI	**5**	EA	$ 1,000	$ 5,000	
2. Abandon Culvert	**500**	FT	$ 70	$ 35,000	
3. Remove Culvert	-	FT	$ 80	$ -	
4. Install DI	**15**	EA	$ 5,000	$ 75,000	
5. Extend Culverts 8"	**300**	FT	$ 80	$ 24,000	
6. Extend Culverts 18"	**80**	FT	$ 150	$ 12,000	
7. Extend Culverts 24"	**115**	FT	$ 170	$ 20,000	
8. Extend Culverts 30"	**65**	FT	$ 220	$ 14,000	
9. Extend Culverts 36"	**200**	FT	$ 250	$ 50,000	
10. 18" FES	**2**	EA	$ 625	$ 1,000	
11. 24" FES	**3**	EA	$ 645	$ 2,000	
12. 30" FES	**1**	EA	$ 740	$ 1,000	
13. 36" FES	**2**	EA	$ 900	$ 2,000	
14. SWPPP	**1**	LS	$ 8,000	$ 8,000	
15. Reline double 72" culvert	**1**	LS	$ 146,000	$ 146,000	

Subtotal Drainage $ 395,000

Section 4 Specialty Items	Quantity	Unit	Unit Price	Item Cost	Section Cost
1. Soundwalls/Retaining Walls	-	SQFT	$ 40	$ -	
2. Environmental - Permit and Mitigation Costs	**1**	LS	$ 753,207	$ 753,207	
3. Aesthetic Treatment	-	LS		$ -	
4. Environmental - Non-Mitigation	**1**	LS	$ 30,000	$ 30,000	
5. Erosion Control	**40,000**	SQYD	$ 3	$ 100,000	
6. Plant (Group U)	**200**	EA	$ 110	$ 22,000	
7. Replace Highway Planting and Irrigation	**5**	AC	$ 100,000	$ 500,000	
8. Plant Establishment	**1**	LS	$ 150,000	$ 150,000	
9. AB for Maintenance Acess Path	-	CY	$ 75	$ -	
10. Paving for Maintenance Worker Safety	**100**	CY	$ 400	$ 40,000	
11. Soundwall Aesthetics	-	LS		$ -	
12. Tree Removal	-	EA	$ 500	$ -	
13. Water Connections	**2**	EA	$ 50,000	$ 100,000	
14. Remove Dbl Thrie-Beam Barrier	**11,373**	FT	$ 15	$ 170,595	
15. Concrete Median Barrier (Type 60)	**16,910**	FT	$ 50	$ 845,500	
16. Concrete Median Barrier (Type 60D)	-	FT	$ 75	$ -	
17. Temporary Railing (Type K)	**40,000**	FT	$ 20	$ 800,000	
18. Temporary Crash Cushion	**6**	EA	$ 600	$ 3,600	
19. Safety shape Concrete Barrier (Type 27)	-	FT	$ 60	$ -	
20. Remove Exist Concrete Barrier (Type 50)	-	FT	$ 50	$ -	
21. Remove/Replace Failed PCC slabs*	-		$ -	$ -	
22. NPDES (includes construction BMPs)	**1**	LS	$ 750,000	$ 750,000	

*Not included in this project

Subtotal Specialty Items $ 4,264,902

Section 5 Traffic Items	Quantity	Unit	Unit Price	Item Cost	Section Cost
1. COZEEP	**150**	DAYS	$ 2,000	$ 300,000	
2. Traffic Management Plan/Traffic Control	**150**	DAYS	$ 1,300	$ 195,000	
3. Traffic Lighting and Electrical	**1**	LS	$ 1,000,000	$ 1,000,000	
4. TOS	**1**	LS	$ 250,000	$ 250,000	
5. Construction Area Signs	**1**	LS	$ 100,000	$ 100,000	
6. Signing and Striping	**1**	LS	$ 2,000,000	$ 2,000,000	
7. Portable Chageable Message Signs	**10**	EA	$ 2,600	$ 26,000	

Subtotal Traffic Items $ 3,871,000

TOTAL SECTIONS 1 thru 5 $ 18,539,716

Section 6 Minor Items — **Section Cost**

$ 18,539,716 (Subtotal Sections 1 thru 5)	x (10%) =	$ 1,853,972

Subtotal Minor Items $ 1,853,972

Section 7 Roadway Mobilization — **Section Cost**

$ 20,393,688 (Subtotal Sections 1 thru 6)	x (10%) =	$ 2,039,369

Subtotal Roadway Mobilization $ 2,039,369

Section 8 Roadway Additions — **Section Cost**

Supplemental Work

$ 20,393,688 (Subtotal Sections 1 thru 6)	x (10%) =	$ 2,039,369

Contingencies

$ 20,393,688 (Subtotal Sections 1 thru 6)	x (25%) =	$ 5,098,422

Subtotal Roadway Additions $ 7,137,791

TOTAL ROADWAY ITEMS $ 29,570,847
(Subtotal Sections 1 thru 8)

CALL $ 29,600,000

Estimate Prepared By	Nancy Xu (Print Name)	**Phone #**	530-741-4558	**Date**	12/12/2012
Estimate Checked By	Jerry Cagle (Print Name)	**Phone #**	530 741 4534	**Date**	1/3/2013

II. STRUCTURES ITEMS

Structure		Quantity	Unit	Unit Price	Item Cost
Beach Lake Bridge (24-0262L/R)		1	LS	$ 3,069,000	$ 3,069,000

Subtotal Structures Items $ 3,069,000

Railroad Related Costs: _____ $ -

_____ $ -

_____ $ -

Subtotal Railroad Items $ -

TOTAL STRUCTURES ITEMS $ 3,069,000

CALL $ 3,100,000

COMMENTS:

Estimate Prepared By Eric Burgeson (Print Name) **Phone #** 916 227-8446 **Date** 10/31/2012

NOTE: If appropriate, attach additional pages and backup

III. RIGHT OF WAY ITEMS

	CURRENT VALUES	ESCALATION RATES	ESCALATED VALUE
A. Total Acquisition Cost	$ 8,125	5%	$ 10,308
B. Mitigation acquisition & credits	$ 1,198,000	5%	$ 1,519,816
C. Project development Permit Fees	$ 15,000	0%	$ 19,029
D. Utility Relocation (State Share)		2%	$ -
E. Relocation Assistance (RAP	$ -	0%	$ -
F. Clerance/Demolition	$ -	0%	$ -
G. Title & Escrow		0%	

TOTAL RIGHT OF WAY ITEMS $ 1,549,000

Anticipated Date of Right of Way Certification: 1-Oct-16
(Date to which Values are Escalated)

F. Construction Contract Work

Brief Description of Work:

Right of Way Branch Cost Estimate for Work*

*This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate.
Do Not include in Right of Way Items.

COMMENTS:

Estimate Prepared By Lee Ann Lambirth (Print Name) **Phone #** 530-741-5140 **Date** 11/18/2011

NOTE: If appropriate, attach additional pages and backup