

Cost Estimate

Cost Estimate for Opening Year 2030

Category		Ramsey Trumpet	Ramsey Diamond	Ramsey Tight Diamond	Main SPUI	Main Hook	Main Tight Diamond
Section	Item						
1	Earthwork	\$ 1,760,000	\$ 2,357,000	\$ 5,524,000	\$ 3,241,000	\$ 2,156,000	\$ 1,959,000
2	Pavement Structural Section	\$ 6,479,000	\$ 12,268,000	\$ 13,734,000	\$ 7,004,000	\$ 6,641,000	\$ 7,133,000
3	Drainage	\$ 824,000	\$ 1,463,000	\$ 1,926,000	\$ 1,025,000	\$ 880,000	\$ 910,000
4	Specialty Items	\$ 165,000	\$ 293,000	\$ 386,000	\$ 205,000	\$ 176,000	\$ 182,000
5	Environmental	\$ 412,000	\$ 732,000	\$ 963,000	\$ 513,000	\$ 440,000	\$ 455,000
6	Traffic Items	\$ 412,000	\$ 732,000	\$ 963,000	\$ 513,000	\$ 440,000	\$ 455,000
7	Detours	\$ 412,000	\$ 732,000	\$ 963,000	\$ 513,000	\$ 440,000	\$ 455,000
8	Minor Items	\$ 942,000	\$ 1,672,000	\$ 2,202,000	\$ 1,171,000	\$ 792,000	\$ 819,000
9	Roadway Mobilization	\$ 1,141,000	\$ 2,025,000	\$ 2,666,000	\$ 1,419,000	\$ 880,000	\$ 910,000
10	Supplemental Work	\$ 457,000	\$ 810,000	\$ 1,067,000	\$ 568,000	\$ 352,000	\$ 364,000
11	State Furnished	\$ 229,000	\$ 405,000	\$ 534,000	\$ 284,000	\$ 176,000	\$ 182,000
12	Time-Related Overhead	\$ 685,000	\$ 1,215,000	\$ 1,600,000	\$ 851,000	\$ 528,000	\$ 546,000
13	Total Roadway Contingency	\$ 3,479,000	\$ 6,175,000	\$ 9,757,000	\$ 4,325,000	\$ 7,301,000	\$ 2,273,000
14	Structure Items	\$ 10,734,000	\$ 16,930,000	\$ 16,957,000	\$ 21,230,000	\$ 17,412,000	\$ 21,968,000
15	Right of Way	\$ 3,438,000	\$ 5,530,000	\$ 3,749,000	\$ 10,363,000	\$ 9,215,000	\$ 12,501,000
16	Support Cost	\$ 5,050,000	\$ 8,533,000	\$ 10,078,000	\$ 8,515,000	\$ 9,878,000	\$ 6,278,000
Total Project Cost		\$ 36,619,000	\$ 61,872,000	\$ 73,069,000	\$ 61,740,000	\$ 57,707,000	\$ 57,390,000

COST ESTIMATE SUMMARY			
Section	Item	Current Cost (2024)	Escalated Cost (2030)
1	Earthwork	\$ 4,602,984	\$ 5,523,580
2	Pavement Structural Section	\$ 11,444,844	\$ 13,733,813
3	Drainage	\$ 1,604,783	\$ 1,925,739
4	Specialty Items	\$ 320,957	\$ 385,148
5	Environmental	\$ 802,391	\$ 962,870
6	Traffic Items	\$ 802,391	\$ 962,870
7	Detours	\$ 802,391	\$ 962,870
8	Minor Items	\$ 1,834,267	\$ 2,201,120
9	Roadway Mobilization	\$ 2,221,501	\$ 2,665,801
10	Supplemental Work	\$ 888,600	\$ 1,066,320
11	State Furnished	\$ 444,300	\$ 533,160
12	Time-Related Overhead	\$ 1,332,900	\$ 1,599,481
13	Total Roadway Contingency	\$ 8,130,693	\$ 9,756,831
14	Structure Items	\$ 14,130,395	\$ 16,956,474
15	Right of Way	\$ 3,123,588	\$ 3,748,306
16	Support Cost	\$ 8,397,918	\$ 10,077,501
Total Project Cost		\$ 60,884,903	\$ 73,061,883

CAPITAL OUTLAY COST					
PART I: ROADWAY ITEMS SUMMARY					
Section 1: Earthwork					
Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	12,562	\$32.47	\$ 407,888
198010	Imported Borrow (Fill)	CY	165,487	\$25.35	\$ 4,195,095
<i>Subtotal Earthwork</i>					\$ 4,602,984

Section 2: Pavement Structural Section					
Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	37,560	\$43.50	\$ 1,633,860
260203	Class 2 Aggregate Base (AB)	CY	40,957	\$179.09	\$ 7,334,989
280000	Lean Concrete Base (LCB)	CY	4,659	\$141.38	\$ 658,689
390132	Hot Mix Asphalt (Type A)	TON	17,986	\$101.04	\$ 1,817,305
<i>Subtotal Pavement</i>					\$ 11,444,844

Sections 3-11: Additional Roadway Items

Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 1,604,783
Section 4	Speciality Items	Progress Schedule (Critical Path Metho Sound Wall (Masonry Block) Minor Concrete (Wall) Remove Sound Wall Lead Compliance Plan Treated Wood Waste Remove Barrier Cable Railing Terminal System (Type CAT) Crash Cushion (Insert Type) Rock Stain	2.00%	\$ 320,957
Section 5	Environmental	Environmental Mitigation Landscape And Irrigation Erosion Control NPDES	5.00%	\$ 802,391
Section 6	Traffic Items	Traffic Electrical Traffic Signing and Striping Traffic Management Plan Stage Construction and Traffic Handlin	5.00%	\$ 802,391
Section 7	Detours	Includes constructing, maintaining, and Roadway Excavation Imported Borrow Hot Mix Asphalt (Type A) Class 2 Aggregate Base Class 4 Aggregate Subbase Temporary Drainage Inlet Protection Temporary Railing (Type K) Temporary Signal System Temporary Pavement Marking (Paint) Temporary Fence (Insert Type)	5.00%	\$ 802,391
Section 8	Minor Items	Total of Section 1-7 x 9% 8A - Americans with Disabilities Act Ite 8B - Bike Path Items 8C - Other Minor Items	9.00%	\$ 1,834,267
Section 9	Roadway Mobilization	Total of Section 1-8 x 10%	10.00%	\$ 2,221,501
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 888,600

Section 11	State Furnished Materials	Total of Section 1-8 x 2% Resident Engineers Office Traffic Management Plan - Public Infor Water Expenses Traffic Monitoring Station (X) Traffic Controller Assembly Traffic Signal Controller Assembly COZEEP Contract Reflective Numbers and Edge Sealer Tow Truck Service Patrol Annual Construction General Permit F	2.00%	\$ 444,300
Section 12	Time-Related Overhead	Total of Roadway and Structures Contract Items excluding Mobilization	6.00%	\$ 1,332,900
Section 13	Total Roadway Contingency	Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50%, PSR (initiation) 25%, Draft PR (draft approval) 20%, PR (approval) 15%, after PR approval 10%, Final PS&E 5%)	30.00%	\$ 8,130,693
<i>Subtotals Section 3-13</i>				\$ 19,185,175

PART II: STRUCTURE ITEMS

Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	25,645	\$380.00	\$ 9,745,100
510051	Retaining Wall (Mainline)	LF	0	\$5,400.00	\$ -
510052	Retaining Wall (Alts, Ramps)	LF	0	\$2,000.00	\$ -
			<i>Time-Related Overhead</i>	10.00%	\$ 974,510
			<i>Structures Mobilization</i>	10.00%	\$ 974,510
			<i>Structures Contingency</i>	25.00%	\$ 2,436,275
<i>Subtotal Structure Items</i>					\$ 14,130,395

PART III: RIGHT OF WAY

Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	265,485	\$6.00	\$ 1,592,910
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$15.00	\$ -
ROW 3	Commercial Property (buildings and critical open space)	SF	80562	\$19.00	\$ 1,530,678
<i>Subtotal Right of Way</i>					\$ 3,123,588

TOTAL SUPPORT COST

PART IV: SUPPORT COST ESTIMATE SUMMARY

Sections 16: Support Cost Items

Code	Description	Percent	Cost
PA/ED	PA/ED Support	4.00%	\$ 2,099,479
PS&E	PS&E Support	4.00%	\$ 2,099,479
ROW	Right of Way Support	4.00%	\$ 2,099,479
CS	Construction Support	4.00%	\$ 2,099,479
<i>Subtotal Support Cost</i>			\$ 8,397,918

COST ESTIMATE SUMMARY			
Section	Item	Current Cost (2024)	Escalated Cost (2025)
1	Earthwork	\$ 1,963,759	\$ 2,356,511
2	Pavement Structural Section	\$ 10,222,803	\$ 12,267,364
3	Drainage	\$ 1,218,656	\$ 1,462,387
4	Specialty Items	\$ 243,731	\$ 292,477
5	Environmental	\$ 609,328	\$ 731,194
6	Traffic Items	\$ 609,328	\$ 731,194
7	Detours	\$ 609,328	\$ 731,194
8	Minor Items	\$ 1,392,924	\$ 1,671,509
9	Roadway Mobilization	\$ 1,686,986	\$ 2,024,383
10	Supplemental Work	\$ 674,794	\$ 809,753
11	State Furnished	\$ 337,397	\$ 404,877
12	Time-Related Overhead	\$ 1,012,192	\$ 1,214,630
13	Total Roadway Contingency	\$ 5,145,307	\$ 6,174,368
14	Structure Items	\$ 14,107,804	\$ 16,929,365
15	Right of Way	\$ 4,608,198	\$ 5,529,837
16	Support Cost	\$ 7,110,806	\$ 8,532,967
Total Project Cost		\$ 51,553,341	\$ 61,864,010

CAPITAL OUTLAY COST					
PART I: ROADWAY ITEMS SUMMARY					
Section 1: Earthwork					
Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	7,256	\$30.81	\$ 223,557
198010	Imported Borrow (Fill)	CY	156,212	\$11.14	\$ 1,740,202
<i>Subtotal Earthwork</i>					\$ 1,963,759

Section 2: Pavement Structural Section					
Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	35,462	\$57.78	\$ 2,048,994
260203	Class 2 Aggregate Base (AB)	CY	38,542	\$179.09	\$ 6,902,487
280000	Lean Concrete Base (LCB)	CY	0	\$573.73	\$ -
390132	Hot Mix Asphalt (Type A)	TON	15,382	\$82.65	\$ 1,271,322

Subtotal Pavement \$ 10,222,803

Sections 3-11: Additional Roadway Items

Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 1,218,656
Section 4	Speciality Items	Progress Schedule (Critical Path Method) Sound Wall (Masonry Block) Minor Concrete (Wall) Remove Sound Wall Lead Compliance Plan Treated Wood Waste Remove Barrier Cable Railing Terminal System (Type CAT) Crash Cushion (Insert Type) Rock Stain	2.00%	\$ 243,731
Section 5	Environmental	Environmental Mitigation Landscape And Irrigation Erosion Control NPDES	5.00%	\$ 609,328
Section 6	Traffic Items	Traffic Electrical Traffic Signing and Striping Traffic Management Plan Stage Construction and Traffic Handling	5.00%	\$ 609,328
Section 7	Detours	Includes constructing, maintaining, and Roadway Excavation Imported Borrow Hot Mix Asphalt (Type A) Class 2 Aggregate Base Class 4 Aggregate Subbase Temporary Drainage Inlet Protection Temporary Railing (Type K) Temporary Signal System Temporary Pavement Marking (Paint) Temporary Fence (Insert Type)	5.00%	\$ 609,328
Section 8	Minor Items	Total of Section 1-7 x 9% 8A - Americans with Disabilities Act Items 8B - Bike Path Items 8C - Other Minor Items	9.00%	\$ 1,392,924
Section 9	Roadway Mobilization	Total of Section 1-8 x 10%	10.00%	\$ 1,686,986

Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$	674,794
Section 11	State Furnished Materials	Total of Section 1-8 x 2% Resident Engineers Office Traffic Management Plan - Public Infor Water Expenses Traffic Monitoring Station (X) Traffic Controller Assembly Traffic Signal Controller Assembly COZEEP Contract Reflective Numbers and Edge Sealer Tow Truck Service Patrol Annual Construction General Permit F	2.00%	\$	337,397
Section 12	Time-Related Overhead	Total of Roadway and Structures Contract Items excluding Mobilization	6.00%	\$	1,012,192
Section 13	Total Roadway Contingency	Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50%, PSR (initiation) 25%, Draft PR (draft approval) 20%, PR (approval) 15%, after PR approval 10%, Final PS&E 5%)	25.00%	\$	5,145,307
				<i>Subtotals Section 3-13</i>	\$ 13,539,972

PART II: STRUCTURE ITEMS					
Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	25,604	\$380.00	\$ 9,729,520
	Columns				
510051	Retaining Wall (Mainline)	LF		\$5,400.00	\$ -
510052	Retaining Wall (Alts, Ramps)	LF		\$2,000.00	\$ -
				<i>Time-Related Overhead</i>	10.00% \$ 972,952
				<i>Structures Mobilization</i>	10.00% \$ 972,952
				<i>Structures Contingency</i>	25.00% \$ 2,432,380
				<i>Subtotal Structure Items</i>	\$ 14,107,804

PART III: RIGHT OF WAY					
Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	246,556	\$6.42	\$ 1,582,890
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$16.12	\$ -

ROW 3	Commercial Property (buildings and critical open space)	SF	72562	\$20.42	\$ 1,481,716
			<i>Conserved Land (MSHCP and others)</i>	5.00%	\$ 1,543,592
				<i>Subtotal Right of Way</i>	\$ 4,608,198

TOTAL SUPPORT COST

PART IV: SUPPORT COST ESTIMATE SUMMARY

Sections 16: Support Cost Items

Code	Description	Percent	Cost
PA/ED	PA/ED Support	4.00%	\$1,777,701.43
PS&E	PS&E Support	4.00%	\$1,777,701.43
ROW	Right of Way Support	4.00%	\$1,777,701.43
CS	Construction Support	4.00%	\$1,777,701.43
		<i>Subtotal Support Cost</i>	\$7,110,805.72

COST ESTIMATE SUMMARY			
Section	Item	Current Cost (2024)	Escalated Cost (2030)
1	Earthwork	\$ 1,466,202	\$ 1,759,442
2	Pavement Structural Section	\$ 5,398,753	\$ 6,478,504
3	Drainage	\$ 686,496	\$ 823,795
4	Specialty Items	\$ 137,299	\$ 164,759
5	Environmental	\$ 343,248	\$ 411,897
6	Traffic Items	\$ 343,248	\$ 411,897
7	Detours	\$ 343,248	\$ 411,897
8	Minor Items	\$ 784,664	\$ 941,597
9	Roadway Mobilization	\$ 950,316	\$ 1,140,379
10	Supplemental Work	\$ 380,126	\$ 456,152
11	State Furnished	\$ 190,063	\$ 228,076
12	Time-Related Overhead	\$ 570,189	\$ 684,227
13	Total Roadway Contingency	\$ 2,898,463	\$ 3,478,156
14	Structure Items	\$ 8,944,978	\$ 10,733,973
15	Right of Way	\$ 2,864,427	\$ 3,437,313
16	Support Cost	\$ 4,208,275	\$ 5,049,930
Total Project Cost		\$ 30,509,995	\$ 36,611,994

CAPITAL OUTLAY COST					
PART I: ROADWAY ITEMS SUMMARY					
Section 1: Earthwork					
Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	4,200	\$30.81	\$ 129,402
198010	Imported Borrow (Fill)	CY	120,000	\$11.14	\$ 1,336,800
<i>Subtotal Earthwork</i>					\$ 1,466,202
Section 2: Pavement Structural Section					
Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	15,000	\$57.78	\$ 866,700
401000	Concrete Pavement	CY	18,000	\$179.09	\$ 3,223,620
731627	Minor Concrete (Curb, Sidewalk and Curb Ramp)	CY	840	\$573.73	\$ 481,933
390132	Hot Mix Asphalt (Type A)	TON	10,000	\$82.65	\$ 826,500
<i>Subtotal Pavement</i>					\$ 5,398,753

Sections 3-11: Additional Roadway Items

Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 686,496
		Progress Schedule (Critical Path Method)		
		Sound Wall (Masonry Block)		
		Minor Concrete (Wall)		
		Remove Sound Wall		
		Lead Compliance Plan		
		Treated Wood Waste		
		Remove Barrier		
		Cable Railing		
		Terminal System (Type CAT)		
		Crash Cushion (Insert Type)		
Section 4	Speciality Items	Rock Stain	2.00%	\$ 137,299
		Environmental Mitigation		
		Landscape And Irrigation		
		Erosion Control		
Section 5	Environmental	NPDES	5.00%	\$ 343,248
		Traffic Electrical		
		Traffic Signing and Striping		
		Traffic Management Plan		
Section 6	Traffic Items	Stage Construction and Traffic Handling	5.00%	\$ 343,248
		Includes constructing, maintaining, and re		
		Roadway Excavation		
		Imported Borrow		
		Hot Mix Asphalt (Type A)		
		Class 2 Aggregate Base		
		Class 4 Aggregate Subbase		
		Temporary Drainage Inlet Protection		
		Temporary Railing (Type K)		
		Temporary Signal System		
		Temporary Pavement Marking (Paint)		
Section 7	Detours	Temporary Fence (Insert Type)	5.00%	\$ 343,248
		Total of Section 1-7 x 9%		
		8A - Americans with Disabilities Act Items		
		8B - Bike Path Items		
		8C - Other Minor Items		
Section 8	Minor Items		9.00%	\$ 784,664
Section 9	Roadway Mobilization	Total of Section 1-8 x 10%	10.00%	\$ 950,316
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 380,126

	Total of Section 1-8 x 2%			
	Resident Engineers Office			
	Traffic Management Plan - Public Informa			
	Water Expenses			
	Traffic Monitoring Station (X)			
	Traffic Controller Assembly			
	Traffic Signal Controller Assembly			
	COZEEP Contract			
	Reflective Numbers and Edge Sealer			
	Tow Truck Service Patrol			
Section 11	State Furnished Materials	Annual Construction General Permit Fee	2.00%	\$ 190,063
		Total of Roadway and Structures		
Section 12	Time-Related Overhead	Contract Items excluding Mobilization	6.00%	\$ 570,189
		Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50%, PSR (initiation) 25%, Draft PR (draft approval) 20%, PR (approval) 15%, after PR approval 10%, Final PS&E 5%)	25.00%	\$ 2,898,463
Section 13	Total Roadway Contingency			
				<i>Subtotals Section 3-13</i> \$ 7,627,360

PART II: STRUCTURE ITEMS

Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	12,000	\$380.00	\$ 4,560,000
510051	Retaining Wall (Mainline)	LF		\$5,400.00	\$ -
510052	Retaining Wall (Alts, Ramps)	LF	5,000	\$321.79	\$ 1,608,950
				<i>Time-Related Overhead</i>	10.00% \$ 616,895
				<i>Structures Mobilization</i>	10.00% \$ 616,895
				<i>Structures Contingency</i>	25.00% \$ 1,542,238
				<i>Subtotal Structure Items</i>	\$ 8,944,978

PART III: RIGHT OF WAY

Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	112,071	\$6.42	\$ 719,496
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$16.12	\$ -
ROW 3	Commercial Property (buildings and critical open space)	SF	62458	\$20.42	\$ 1,275,392
				<i>Conserved Land (MSHCP and others)</i>	5.00% \$ 869,539
				<i>Subtotal Right of Way</i>	\$ 2,864,427

TOTAL SUPPORT COST

PART IV: SUPPORT COST ESTIMATE SUMMARY

Sections 16: Support Cost Items

Code	Description	Percent	Cost
PA/ED	PA/ED Support	4.00%	\$ 1,052,069
PS&E	PS&E Support	4.00%	\$ 1,052,069
ROW	Right of Way Support	4.00%	\$ 1,052,069
CS	Construction Support	4.00%	\$ 1,052,069
<i>Subtotal Support Cost</i>			\$ 4,208,275

COST ESTIMATE SUMMARY				
Section	Item		Current Cost (2024)	Escalated Cost (2030)
1	Earthwork		\$ 2,700,196	\$ 3,240,235
2	Pavement Structural Section		\$ 5,836,194	\$ 7,003,432
3	Drainage		\$ 853,639	\$ 1,024,367
4	Specialty Items		\$ 170,728	\$ 204,873
5	Environmental		\$ 426,819	\$ 512,183
6	Traffic Items		\$ 426,819	\$ 512,183
7	Detours		\$ 426,819	\$ 512,183
8	Minor Items		\$ 975,709	\$ 1,170,851
9	Roadway Mobilization		\$ 1,181,692	\$ 1,418,031
10	Supplemental Work		\$ 472,677	\$ 567,212
11	State Furnished		\$ 236,338	\$ 283,606
12	Time-Related Overhead		\$ 709,015	\$ 850,819
13	Total Roadway Contingency		\$ 3,604,162	\$ 4,324,994
14	Structure Items		\$ 17,691,160	\$ 21,229,392
15	Right of Way		\$ 8,635,009	\$ 10,362,010
16	Support Cost		\$ 7,095,516	\$ 8,514,620
Total Project Cost			\$ 51,442,494	\$ 61,730,993

CAPITAL OUTLAY COST

PART I: ROADWAY ITEMS SUMMARY

Section 1: Earthwork

Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	15,846	\$30.81	\$ 488,215
198010	Imported Borrow (Fill)	CY	198,562	\$11.14	\$ 2,211,981
<i>Subtotal Earthwork</i>					\$ 2,700,196

Section 2: Pavement Structural Section

Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	14,282	\$57.78	\$ 825,224
401000	Concrete Pavement	CY	13,658	\$179.09	\$ 2,446,011
731627	Minor Concrete (Curb, Sidewalk, and Curb Ramp)	CY	2,545	\$573.73	\$ 1,460,424
390132	Hot Mix Asphalt (Type A)	TON	13,364	\$82.65	\$ 1,104,535
<i>Subtotal Pavement</i>					\$ 5,836,194

Sections 3-11: Additional Roadway Items

Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 853,639
Section 4	Speciality Items	Progress Schedule (Critical Path Methc	2.00%	\$ 170,728
Section 5	Environmental	Environmental Mitigation	5.00%	\$ 426,819
Section 6	Traffic Items	Traffic Electrical	5.00%	\$ 426,819
Section 7	Detours	Includes constructing, maintaining, anc	5.00%	\$ 426,819
Section 8	Minor Items	Total of Section 1-7 x 9%	9.00%	\$ 975,709
Section 9	Roadway Mobilization	Total of Section 1-8 x 10%	10.00%	\$ 1,181,692
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 472,677
Section 11	State Furnished Materials	Total of Section 1-8 x 2%	2.00%	\$ 236,338
Section 12	Time-Related Overhead	Total of Roadway and Structures	6.00%	\$ 709,015
Section 13	Total Roadway Contingency	Recommended Total Contingency:	25.00%	\$ 3,604,162
<i>Subtotals Section 3-13</i>				\$ 9,484,420

PART II: STRUCTURE ITEMS

Code	Item	Unit	Quantity	Unit Price	Cost
A	PS Box Girder	SF	30,502	\$400.00	\$ 12,200,800
081917	Retaining Wall (Alts, Ramps)	LF	0	\$402.20	\$ -
				<i>Time-Related Overhead</i>	10.00% \$ 1,220,080
				<i>Structures Mobilization</i>	10.00% \$ 1,220,080
				<i>Structures Contingency</i>	25.00% \$ 3,050,200
<i>Subtotal Structure Items</i>					\$ 17,691,160

PART III: RIGHT OF WAY

Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	458,956	\$6.42	\$ 2,946,498
ROW 2	Residential Property (homes, garages, barns, and	SF	0	\$16.12	\$ -
ROW 3	Commercial Property (buildings and critical open space)	SF	225,625	\$20.42	\$ 4,607,263
				<i>Conserved Land (MSHCP and others)</i>	5.00% \$ 1,081,249
				<i>Subtotal Right of Way</i>	\$ 8,635,009

TOTAL SUPPORT COST**PART IV: SUPPORT COST ESTIMATE SUMMARY****Sections 16: Support Cost Items**

Code	Description	Percent	Cost
PA/ED	PA/ED Support	4.00%	\$ 1,773,879
PS&E	PS&E Support	4.00%	\$ 1,773,879
ROW	Right of Way Support	4.00%	\$ 1,773,879
CS	Construction Support	4.00%	\$ 1,773,879
		<i>Subtotal Support Cost</i>	\$ 7,095,516

COST ESTIMATE SUMMARY

Section	Item	Current Cost (2024)	Escalated Cost (2030)
1	Earthwork	\$ 1,796,304	\$ 2,155,565
2	Pavement Structural Section	\$ 5,533,351	\$ 6,640,021
3	Drainage	\$ 732,965	\$ 879,559
4	Specialty Items	\$ 146,593	\$ 175,912
5	Environmental	\$ 366,483	\$ 439,779
6	Traffic Items	\$ 366,483	\$ 439,779
7	Detours	\$ 366,483	\$ 439,779
8	Minor Items	\$ 659,669	\$ 791,603
9	Roadway Mobilization	\$ 732,965	\$ 879,559
10	Supplemental Work	\$ 293,186	\$ 351,823
11	State Furnished	\$ 146,593	\$ 175,912
12	Time-Related Overhead	\$ 439,779	\$ 527,735
13	Total Roadway Contingency	\$ 6,083,613	\$ 7,300,336
14	Structure Items	\$ 14,509,860	\$ 17,411,832
15	Right of Way	\$ 7,678,775	\$ 9,214,530
16	Support Cost	\$ 8,230,910	\$ 9,877,092
		\$ 48,084,013	\$ 57,700,815

CAPITAL OUTLAY COST**PART I: ROADWAY ITEMS SUMMARY****Section 1: Earthwork**

Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	13,465	\$30.81	\$ 1,551,592
198010	Imported Borrow (Fill)	CY	186,592	\$11.14	\$ 244,712
<i>Subtotal Earthwork</i>					\$ 1,796,304

Section 2: Pavement Structural Section

Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	14,282	\$57.78	\$ 825,214
280000	Lean Concrete Base (LCB)	CY	12,512	\$247.77	\$ 3,100,098
390132	Hot Mix Asphalt (Type A)	TON	19,456	\$82.65	\$ 1,608,038
<i>Subtotal Pavement</i>					\$ 5,533,351

Sections 3-11: Additional Roadway Items

Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$732,965
Section 4	Speciality Items	Progress Schedule (Critical Path Metho Sound Wall (Masonry Block) Minor Concrete (Wall) Remove Sound Wall Lead Compliance Plan Treated Wood Waste Remove Barrier Cable Railing Terminal System (Type CAT) Crash Cushion (Insert Type) Rock Stain	2.00%	\$ 146,593
Section 5	Environmental	Environmental Mitigation Landscape And Irrigation Erosion Control NPDES	5.00%	\$ 366,483
Section 6	Traffic Items	Traffic Electrical Traffic Signing and Striping Traffic Management Plan Stage Construction and Traffic Handlin	5.00%	\$ 366,483
Section 7	Detours	Includes constructing, maintaining, and Roadway Excavation Imported Borrow Hot Mix Asphalt (Type A) Class 2 Aggregate Base Class 4 Aggregate Subbase Temporary Drainage Inlet Protection Temporary Railing (Type K) Temporary Signal System Temporary Pavement Marking (Paint) Temporary Fence (Insert Type)	5.00%	\$ 366,483
Section 8	Minor Items	Total of Section 1-7 x 9% 8A - Americans with Disabilities Act It 8B - Bike Path Items 8C - Other Minor Items	9.00%	\$ 659,669
Section 9	Roadway Mobilization	Total of Section 1-8 x 10%	10.00%	\$ 732,965
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 293,186

Section 11	State Furnished Materials	Total of Section 1-8 x 2% Resident Engineers Office Traffic Management Plan - Public Infor Water Expenses Traffic Monitoring Station (X) Traffic Controller Assembly Traffic Signal Controller Assembly COZEEP Contract Reflective Numbers and Edge Sealer Tow Truck Service Patrol Annual Construction General Permit F	2.00%	\$ 146,593
Section 12	Time-Related Overhead	Total of Roadway and Structures Contr	6.00%	\$ 439,779
Section 13	Total Roadway Contingency	Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50%, PSR (initiation) 25%, Draft PR (draft approval) 20%, PR (approval) 15%, after PR approval 10%, Final PS&E 5%)	25.00%	\$ 1,832,414
Subtotals Section 3-13				\$ 6,083,613

PART II: STRUCTURE ITEMS

Code	Item	Unit	Quantity	Unit Price	Cost
510053	PS Box Girder	SF	25,017	\$400.00	\$10,006,800
	Time-Related Overhead			10.00%	\$ 1,000,680
	Structures Mobilization			10.00%	\$ 1,000,680
	Structures Contingency			25.00%	\$ 2,501,700
	<i>Subtotal Structure Items</i>				\$ 14,509,860

PART III: RIGHT OF WAY

Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	568,840	\$6.42	\$3,651,953
ROW 2	Residential Property (homes, garages, barns, and major	SF	0	\$16.12	\$0
ROW 3	Commercial Property (buildings and critical open space	SF	119425	\$20.42	\$2,438,659
	Conserved Land (MSHCP and others)			5.00%	\$ 1,588,163

Subtotal Right of Way				\$ 7,678,775
TOTAL SUPPORT COST				
PART IV: SUPPORT COST ESTIMATE SUMMARY				
Sections 16: Support Cost Items				
Code	Description		Percent	Cost
PA/ED	PA/ED Support		4.00%	\$2,057,727
PS&E	PS&E Support		4.00%	\$2,057,727
ROW	Right of Way Support		4.00%	\$ 2,057,727.00
CS	Construction Support		4.00%	\$ 2,057,727
Subtotal Support Cost				\$ 8,230,910

COST ESTIMATE SUMMARY

Section	Item	Current Cost (2024)	Escalated Cost (2030)
1	Earthwork	\$ 1,632,376	\$ 1,958,851
2	Pavement Structural Section	\$ 5,944,055	\$ 7,132,867
3	Drainage	\$ 757,643	\$ 909,172
4	Specialty Items	\$ 151,529	\$ 181,834
5	Environmental	\$ 378,822	\$ 454,586
6	Traffic Items	\$ 378,822	\$ 454,586
7	Detours	\$ 378,822	\$ 454,586
8	Minor Items	\$ 681,879	\$ 818,255
9	Roadway Mobilization	\$ 757,643	\$ 909,172
10	Supplemental Work	\$ 303,057	\$ 363,669
11	State Furnished	\$ 151,529	\$ 181,834
12	Time-Related Overhead	\$ 454,586	\$ 545,503
13	Total Roadway Contingency	\$ 1,894,108	\$ 2,272,929
14	Structure Items	\$ 18,305,960	\$ 21,967,152
15	Right of Way	\$ 10,417,356	\$ 12,500,828
16	Support Cost	\$ 5,231,052	\$ 6,277,262
		\$ 47,819,238	\$ 57,383,085

CAPITAL OUTLAY COST**PART I: ROADWAY ITEMS SUMMARY****Section 1: Earthwork**

Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	43,818	\$30.81	\$ 1,350,033
198010	Imported Borrow (Fill)	CY	25,345	\$11.14	\$ 282,343
	<i>Subtotal Earthwork</i>				\$ 1,632,376

Section 2: Pavement Structural Section

Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	17,858	\$57.78	\$ 1,031,835
401000	Concrete Pavement	CY	13,564	\$179.09	\$ 2,429,177
731627	Minor Concrete (Curb, Sidewalk, and Curb Ramp)	CY	2,077	\$573.73	\$ 1,191,637
390132	Hot Mix Asphalt (Type A)	TON	15,625	\$82.65	\$ 1,291,406
	<i>Subtotal Pavement</i>				\$ 5,944,055

Sections 3-11: Additional Roadway Items

Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 757,643
Section 4	Speciality Items	Progress Schedule (Critical Path Metho Sound Wall (Masonry Block) Minor Concrete (Wall) Remove Sound Wall Lead Compliance Plan Treated Wood Waste Remove Barrier Cable Railing Terminal System (Type CAT) Crash Cushion (Insert Type) Rock Stain	2.00%	\$ 151,529
Section 5	Environmental	Environmental Mitigation Landscape And Irrigation Erosion Control NPDES	5.00%	\$ 378,822
Section 6	Traffic Items	Traffic Electrical Traffic Signing and Striping Traffic Management Plan Stage Construction and Traffic Handlin	5.00%	\$ 378,822
Section 7	Detours	Includes constructing, maintaining, and Roadway Excavation Imported Borrow Hot Mix Asphalt (Type A) Class 2 Aggregate Base Class 4 Aggregate Subbase Temporary Drainage Inlet Protection Temporary Railing (Type K) Temporary Signal System Temporary Pavement Marking (Paint) Temporary Fence (Insert Type)	5.00%	\$ 378,822
Section 8	Minor Items	Total of Section 1-7 x 9% 8A - Americans with Disabilities Act It 8B - Bike Path Items 8C - Other Minor Items	9.00%	\$ 681,879
Section 9	Roadway Mobilization	Total of Section 1-8 x 10%	10.00%	\$ 757,643
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 303,057

Section 11	State Furnished Materials	Total of Section 1-8 x 2% Resident Engineers Office Traffic Management Plan - Public Infor Water Expenses Traffic Monitoring Station (X) Traffic Controller Assembly Traffic Signal Controller Assembly COZEEP Contract Reflective Numbers and Edge Sealer Tow Truck Service Patrol Annual Construction General Permit F	2.00%	\$ 151,529
Section 12	Time-Related Overhead	Total of Roadway and Structures Contract Items excluding Mobilization	6.00%	\$ 454,586
Section 13	Total Roadway Contingency	Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50%, PSR (initiation) 25%, Draft PR (draft approval) 20%, PR (approval) 15%, after PR approval 10%, Final PS&E 5%)	25.00%	\$ 1,894,108
Subtotals Section 3-13				\$ 6,288,438

PART II: STRUCTURE ITEMS

Code	Item	Unit	Quantity	Unit Price	Cost
	PS Box Girder	SF	31,562	\$400.00	\$ 12,624,800
510051	Retaining Wall (Mainline)	LF	0	\$5,400.00	\$ -
18917	Retaining Wall (Alts, Ramps)	LF	0	\$402.20	\$ -
<i>Time-Related Overhead</i>				10.00%	\$ 1,262,480
<i>Structures Mobilization</i>				10.00%	\$ 1,262,480
<i>Structures Contingency</i>				25.00%	\$ 3,156,200
Subtotal Structure Items					\$ 18,305,960

PART III: RIGHT OF WAY

Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	658,114	\$6.42	\$ 4,225,092
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$16.12	\$ -
ROW 3	Commercial Property (buildings and critical open space)	SF	278952	\$20.42	\$ 5,696,200
	<i>Conserved Land (MSHCP and others)</i>			5.00%	\$ 496,065
	<i>Subtotal Right of Way</i>				\$ 10,417,356

TOTAL SUPPORT COST**PART IV: SUPPORT COST ESTIMATE SUMMARY****Sections 16: Support Cost Items**

Code	Description	Percent	Cost
PA/ED	PA/ED Support	4.00%	\$ 1,307,763
PS&E	PS&E Support	4.00%	\$ 1,307,763
ROW	Right of Way Support	4.00%	\$ 1,307,763
CS	Construction Support	4.00%	\$ 1,307,763
	<i>Subtotal Support Cost</i>		\$ 5,231,052

