



Preliminary Opinion of Costs (Capital & Support)

Kenmar Road Interchange Signal Concept
City of Fortuna

9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$497,000.00	\$497,000.00
2	Remove Metal Beam Guard Railing	LF	600	\$16.00	\$9,600.00
3	Remove Roadside Sign	EA	29	\$102.00	\$2,958.00
4	Remove Asphalt Concrete Dike	LF	4140	\$4.00	\$16,560.00
5	Remove Concrete (Curb & Gutter)	LF	2400	\$10.00	\$24,000.00
6	Remove Tree	EA	7	\$1,400.00	\$9,800.00
7	Roadway Excavation	CY	7370	\$67.00	\$493,790.00
8	Class 2 Aggregate Base	CY	11350	\$70.00	\$794,500.00
9	Hot Mix Asphalt (Type A)	TON	6790	\$140.00	\$950,600.00
10	Bridge (US 101 Over Kenmar Road)	LS	1	\$4,700,000.00	\$4,700,000.00
11	Detectable Warning Surface	SQFT	300	\$35.00	\$10,500.00
12	Minor Concrete (Curb)	CY	4	\$1,320.00	\$5,280.00
13	Minor Concrete (Curb and Gutter)	CY	149	\$806.00	\$120,427.99
14	Minor Concrete (Sidewalk)	CY	130	\$680.00	\$88,400.00
15	Storm Drain System	LS	1	\$100,000.00	\$100,000.00
16	Midwest Guard Rail System (Wood Post)	LF	440	\$80.00	\$35,200.00
17	Thermoplastic Traffic Stripe	LF	10520	\$1.25	\$13,150.00
18	Thermoplastic Pavement Marking	SQFT	1684	\$6.00	\$10,101.00
19	Signs	EA	45	\$350.00	\$15,750.00
20	Signal and Lighting	LS	3	\$225,000.00	\$675,000.00
21	Lighting & Electrical	LS	1	\$100,000.00	\$100,000.00
22	Planting and Irrigation	SQFT	39500	\$5.00	\$197,500.00
23	Mobilization	LS	1	\$837,400.00	\$837,400.00
24	Minor/ Supplemental Items	%	25%	\$8,373,116.99	\$2,093,279.25
Subtotal (Construction Costs)					\$ 11,800,796.23
Construction Contingency					\$ 2,950,199.06
Total Construction Costs					\$ 14,750,995.29
Total Construction Budget (Rounded)					\$ 14,751,000.00
Right of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00	\$0.00
2	Utility Relocation (TBD)	LS	1	\$200,000.00	\$200,000.00
Total Right of Way (Capital) and Utility Relocation Costs					\$ 200,000.00
Total Project Capital Cost					\$ 14,951,000.00
Project Support Costs					
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 747,600.00
3	PS&E		Con. Costs	20%	\$ 2,950,200.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$ -
5	Construction Support and Management		Con. Costs	15%	\$ 2,212,700.00
Total Project Support Costs					\$ 5,910,500.00
Total Estimated Project Costs					\$ 20,861,500.00
Rounded					\$ 20,870,000.00

Assumptions

1. All new paving.
2. Only R/W costs are for private properties (not County, City, or State).
3. Bridge removal included in the cost for each bridge.



Preliminary Opinion of Costs (Capital & Support)

Kenmar Road Interchange Roundabout Concept - Option 1a
City of Fortuna

9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$140,000.00	\$140,000.00
2	Remove Metal Beam Guard Railing	LF	850	\$16.00	\$13,600.00
3	Remove Roadside Sign	EA	29	\$102.00	\$2,958.00
4	Remove Asphalt Concrete Dike	LF	2460	\$4.00	\$9,840.00
5	Remove Concrete (Curb & Gutter)	LF	1210	\$10.00	\$12,100.00
6	Remove Tree	EA	7	\$1,400.00	\$9,800.00
7	Roadway Excavation	CY	5060	\$67.00	\$339,020.00
8	Class 2 Aggregate Base	CY	5510	\$70.00	\$385,700.00
9	Hot Mix Asphalt (Type A)	TON	3060	\$140.00	\$428,400.00
10	Detectable Warning Surface	SQFT	300	\$35.00	\$10,500.00
11	Minor Concrete (Curb)	CY	36	\$1,320.00	\$47,520.00
12	Minor Concrete (Curb - Truck Apron)	CY	47	\$1,160.00	\$54,520.00
13	Minor Concrete (Curb and Gutter)	CY	187	\$806.00	\$150,722.00
14	Minor Concrete (Stamped Concrete - Truck Apron)	CY	230	\$615.00	\$141,450.00
15	Minor Concrete (Sidewalk)	CY	125	\$680.00	\$85,000.00
16	Storm Drain System	LS	1	\$180,000.00	\$180,000.00
17	Midwest Guard Rail System (Wood Post)	LF	820	\$80.00	\$65,600.00
18	Thermoplastic Traffic Stripe	LF	4650	\$1.25	\$5,812.50
19	Thermoplastic Pavement Marking	SQFT	1276	\$6.00	\$7,656.00
20	Signs	EA	55	\$350.00	\$19,250.00
21	Lighting & Electrical	LS	1	\$260,000.00	\$260,000.00
22	Planting and Irrigation	SQFT	13900	\$5.00	\$69,500.00
23	Mobilization	LS	1	\$229,900.00	\$229,900.00
24	Minor/ Supplemental Items	%	25%	\$2,298,948.50	\$574,737.13
Subtotal (Construction Costs)					\$ 3,243,585.63
Construction Contingency					25% \$ 810,896.41
Total Construction Costs					\$ 4,054,482.03
Total Construction Budget (Rounded)					\$ 4,054,500.00
Right of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	3800	\$20.00	\$76,000.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
Total Right of Way (Capital) and Utility Relocation Costs					\$ 276,000.00
Total Project Capital Cost					\$ 4,330,500.00
Project Support Costs					
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 216,600.00
3	PS&E		Con. Costs	20%	\$ 810,900.00
4	Right of Way Engineering & Acquisition		1-Parcels	\$25k/EA	\$ 25,000.00
5	Construction Support and Management		Con. Costs	15%	\$ 608,200.00
Total Project Support Costs					\$ 1,660,700.00
Total Estimated Project Costs					\$ 5,991,200.00
Rounded					\$ 6,000,000.00

Assuptions

1. All new paving.
2. Only R/W costs are for private properties (not County, City, or State).
3. Removing railroad tracks and equipment not included.



Preliminary Opinion of Costs (Capital & Support)

Kenmar Road Interchange Roundabout Concept - Option 1b
City of Fortuna

9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$140,000.00	\$140,000.00
2	Remove Metal Beam Guard Railing	LF	850	\$16.00	\$13,600.00
3	Remove Roadside Sign	EA	29	\$102.00	\$2,958.00
4	Remove Asphalt Concrete Dike	LF	2460	\$4.00	\$9,840.00
5	Remove Concrete (Curb & Gutter)	LF	1210	\$10.00	\$12,100.00
6	Remove Tree	EA	6	\$1,400.00	\$8,400.00
7	Roadway Excavation	CY	5160	\$67.00	\$345,720.00
8	Class 2 Aggregate Base	CY	5860	\$70.00	\$410,200.00
9	Hot Mix Asphalt (Type A)	TON	3270	\$140.00	\$457,800.00
10	Detectable Warning Surface	SQFT	360	\$35.00	\$12,600.00
11	Minor Concrete (Curb)	CY	26	\$1,320.00	\$34,320.00
12	Minor Concrete (Curb - Truck Apron)	CY	32	\$1,160.00	\$37,120.00
13	Minor Concrete (Curb and Gutter)	CY	192	\$806.00	\$154,752.00
14	Minor Concrete (Stamped Concrete - Truck Apron)	CY	170	\$615.00	\$104,550.00
15	Minor Concrete (Sidewalk)	CY	153	\$680.00	\$104,040.00
16	Storm Drain System	LS	1	\$180,000.00	\$180,000.00
17	Midwest Guard Rail System (Wood Post)	LF	820	\$80.00	\$65,600.00
18	Thermoplastic Traffic Stripe	LF	5000	\$1.25	\$6,250.00
19	Thermoplastic Pavement Marking	SQFT	1578	\$6.00	\$9,468.00
20	Signs	EA	40	\$350.00	\$14,000.00
21	Lighting & Electrical	LS	1	\$220,000.00	\$220,000.00
22	Planting and Irrigation	SQFT	10300	\$5.00	\$51,500.00
23	Mobilization	LS	1	\$225,500.00	\$225,500.00
24	Minor/ Supplemental Items	%	25%	\$2,254,818.00	\$563,704.50
Subtotal (Construction Costs)					\$ 3,184,022.50
Construction Contingency					25% \$ 796,005.63
Total Construction Costs					\$ 3,980,028.13
Total Construction Budget (Rounded)					\$ 3,980,100.00
Right of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00	\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
Total Right of Way (Capital) and Utility Relocation Costs					\$ 200,000.00
Total Project Capital Cost					\$ 4,180,100.00
Project Support Costs					
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 209,100.00
3	PS&E		Con. Costs	20%	\$ 796,100.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$ -
5	Construction Support and Management		Con. Costs	15%	\$ 597,100.00
Total Project Support Costs					\$ 1,602,300.00
Total Estimated Project Costs					\$ 5,782,400.00
Rounded					\$ 5,790,000.00

Assuptions

1. All new paving.
2. Only R/W costs are for private properties (not County, City, or State).
3. Removing railroad tracks and equipment not included.



Preliminary Opinion of Costs (Capital & Support)

Kenmar Road Interchange Roundabout Concept - Option 2
City of Fortuna

9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$182,000.00	\$182,000.00
2	Remove Metal Beam Guard Railing	LF	850	\$16.00	\$13,600.00
3	Remove Roadside Sign	EA	29	\$102.00	\$2,958.00
4	Remove Asphalt Concrete Dike	LF	2450	\$4.00	\$9,800.00
5	Remove Concrete (Curb & Gutter)	LF	1200	\$10.00	\$12,000.00
6	Remove Tree	EA	7	\$1,400.00	\$9,800.00
7	Roadway Excavation	CY	5510	\$67.00	\$369,170.00
8	Class 2 Aggregate Base	CY	6590	\$70.00	\$461,300.00
9	Hot Mix Asphalt (Type A)	TON	3770	\$140.00	\$527,800.00
10	Retaining Wall	LS	1	\$635,000.00	\$635,000.00
11	Detectable Warning Surface	SQFT	420	\$35.00	\$14,700.00
12	Minor Concrete (Curb)	CY	16	\$1,320.00	\$21,120.00
13	Minor Concrete (Curb - Truck Apron)	CY	32	\$1,160.00	\$37,120.00
14	Minor Concrete (Curb and Gutter)	CY	133	\$806.00	\$107,198.00
15	Minor Concrete (Stamped Concrete - Truck Apron)	CY	170	\$615.00	\$104,550.00
16	Minor Concrete (Sidewalk)	CY	139	\$680.00	\$94,520.00
17	Storm Drain System	LS	1	\$180,000.00	\$180,000.00
18	Midwest Guard Rail System (Wood Post)	LF	990	\$80.00	\$79,200.00
19	Thermoplastic Traffic Stripe	LF	6180	\$1.25	\$7,725.00
20	Thermoplastic Pavement Marking	SQFT	1151	\$6.00	\$6,906.24
21	Signs	EA	50	\$350.00	\$17,500.00
22	Lighting & Electrical	LS	1	\$260,000.00	\$260,000.00
23	Planting and Irrigation	SQFT	14100	\$5.00	\$70,500.00
24	Mobilization	LS	1	\$304,300.00	\$304,300.00
25	Minor/ Supplemental Items	%	25%	\$3,042,467.24	\$760,616.81
	Subtotal (Construction Costs)				\$ 4,289,384.05
	Construction Contingency			25%	\$ 1,072,346.01
	Total Construction Costs				\$ 5,361,730.06
	Total Construction Budget (Rounded)				\$ 5,361,800.00
Right of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00	\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
	Total Right of Way (Capital) and Utility Relocation Costs				\$ 200,000.00
	Total Project Capital Cost				\$ 5,561,800.00
Project Support Costs					
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 278,100.00
3	PS&E		Con. Costs	20%	\$ 1,072,400.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$ -
5	Construction Support and Management		Con. Costs	15%	\$ 804,300.00
	Total Project Support Costs				\$ 2,154,800.00
	Total Estimated Project Costs				\$ 7,716,600.00
	Rounded				\$ 7,720,000.00

Assuptions

1. All new paving.
2. Only R/W costs are for private properties (not County, City, or State).
3. Removing railroad tracks and equipment not included.



Preliminary Opinion of Costs (Capital & Support)

12th Street Interchange Signal Concept
City of Fortuna

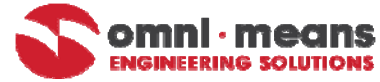
9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$672,000.00	\$672,000.00
2	Remove Roadside Sign	EA	35	\$102.00	\$3,570.00
3	Remove Concrete Sidewalk	SQFT	1970	\$4.50	\$8,865.00
4	Remove Concrete (Curb & Gutter)	LF	4500	\$10.00	\$45,000.00
5	Roadway Excavation	CY	13950	\$67.00	\$934,650.00
6	Embankment	CY	9334	\$25.00	\$233,350.00
7	Class 2 Aggregate Base	CY	22250	\$70.00	\$1,557,500.00
8	Hot Mix Asphalt (Type A)	TON	13190	\$140.00	\$1,846,600.00
9	Bridge (12th Street Over US 101)	LS	1	\$4,500,000.00	\$4,500,000.00
10	Bridge (Riverwalk Drive Over Strong's Creek)	LS	1	\$1,500,000.00	\$1,500,000.00
11	Bridge (Dinsmore Drive Realignment Over Strong's Creek)	LS	1	\$1,200,000.00	\$1,200,000.00
12	Bridge (US 101 NB On-Ramp Over Rohner Creek)	LS	1	\$550,000.00	\$550,000.00
13	Detectable Warning Surface	SQFT	192	\$35.00	\$6,720.00
14	Minor Concrete (Curb and Gutter)	CY	265	\$806.00	\$213,590.00
15	Minor Concrete (Sidewalk)	CY	403	\$680.00	\$274,040.00
16	Storm Drain System	LS	1	\$180,000.00	\$180,000.00
17	Midwest Guard Rail System (Wood Post)	LF	350	\$80.00	\$28,000.00
18	Thermoplastic Traffic Stripe	LF	27620	\$1.25	\$34,525.00
19	Thermoplastic Pavement Marking	SQFT	4101	\$6.00	\$24,606.00
20	Signs	EA	40	\$350.00	\$14,000.00
21	Signal & Lighting	LS	4	\$225,000.00	\$900,000.00
22	Lighting and Sign Illumination	LS	1	\$450,000.00	\$450,000.00
23	Planting and Irrigation	SQFT	147000	\$5.00	\$735,000.00
24	Mobilization	LS	1	\$1,524,100.00	\$1,524,100.00
25	Minor/ Supplemental Items	%	25%	\$15,240,016.00	\$3,810,004.00
	Subtotal (Construction Costs)				\$ 21,246,120.00
	Construction Contingency			25%	\$ 5,311,530.00
	Total Construction Costs				\$ 26,557,650.00
	Total Construction Budget (Rounded)				\$ 26,557,700.00
	Right of Way (Capital) and Utility Relocation Costs:				
1	Right Of Way	SQFT	215900	\$20.00	\$4,318,000.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
	Total Right of Way (Capital) and Utility Relocation Costs				\$ 4,518,000.00
	Total Project Capital Cost				\$ 31,075,700.00
	Project Support Costs				
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 1,553,800.00
3	PS&E		Con. Costs	20%	\$ 5,311,600.00
4	Right of Way Engineering & Acquisition		11-Parcels	\$25k/EA	\$ 275,000.00
5	Construction Support and Management		Con. Costs	15%	\$ 3,983,700.00
	Total Project Support Costs				\$ 11,124,100.00
	Total Estimated Project Costs				\$ 42,199,800.00
	Rounded				\$ 42,200,000.00

Assumptions

- All new paving.
- Only R/W costs are for private properties (not County, City, or State).
- Bridge removal is included in the cost for each bridge.



Preliminary Opinion of Costs (Capital & Support)

12th Street Interchange Roundabout Concept - SB Option 1
City of Fortuna

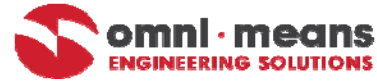
8/26/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$238,000.00	\$238,000.00
2	Remove Metal Beam Guard Railing	LF	298	\$16.00	\$4,768.00
3	Remove Roadside Sign	EA	14	\$102.00	\$1,428.00
4	Remove Asphalt Concrete Dike	LF	255	\$4.00	\$1,020.00
5	Remove Concrete (Curb & Gutter)	LF	941	\$10.00	\$9,410.00
6	Bridge Removal	LS	1	\$140,000.00	\$140,000.00
7	Remove Tree	EA	3	\$1,400.00	\$4,200.00
8	Roadway Excavation	CY	4030	\$67.00	\$270,010.00
9	Class 2 Aggregate Base	CY	5750	\$70.00	\$402,500.00
10	Hot Mix Asphalt (Type A)	TON	3230	\$140.00	\$452,200.00
11	Structural Concrete, Bridge	LS	1	\$1,510,000.00	\$1,510,000.00
12	Retaining Wall	SQFT	2710	\$75.00	\$203,250.00
13	Detectable Warning Surface	SQFT	360	\$35.00	\$12,600.00
14	Minor Concrete (Curb)	CY	50	\$1,320.00	\$66,000.00
15	Minor Concrete (Curb - Truck Apron)	CY	28	\$1,160.00	\$32,480.00
16	Minor Concrete (Curb and Gutter)	CY	106	\$806.00	\$85,436.00
17	Minor Concrete (Stamped Concrete)	CY	9	\$820.00	\$7,380.00
18	Minor Concrete (Stamped Concrete - Truck Apron)	CY	180	\$615.00	\$110,700.00
19	Minor Concrete (Sidewalk)	CY	172	\$680.00	\$116,960.00
20	Storm Drain System	LS	1	\$100,000.00	\$100,000.00
21	Midwest Guard Rail System (Wood Post)	LF	475	\$80.00	\$38,000.00
22	Thermoplastic Traffic Stripe	LF	5070	\$1.25	\$6,337.50
23	Thermoplastic Pavement Marking	SQFT	1010	\$6.00	\$6,057.00
24	Signs	EA	50	\$350.00	\$17,500.00
25	Lighting & Electrical	LS	1	\$260,000.00	\$260,000.00
26	Planting and Irrigation	SQFT	12500	\$5.00	\$62,500.00
27	Mobilization	LS	1	\$392,100.00	\$392,100.00
28	Minor/ Supplemental Items	%	25%	\$3,920,736.50	\$980,184.13
Subtotal (Construction Costs)					\$ 5,531,020.63
Construction Contingency					25% \$ 1,382,755.16
Total Construction Costs					\$ 6,913,775.78
Total Construction Budget (Rounded)					\$ 6,913,800.00
Right of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	5100	\$20.00	\$102,000.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
Total Right of Way (Capital) and Utility Relocation Costs					\$ 302,000.00
Total Project Capital Cost					\$ 7,215,800.00
Project Support Costs					
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 360,800.00
3	PS&E		Con. Costs	20%	\$ 1,382,800.00
4	Right of Way Engineering & Acquisition		2-Parcels	\$25k/EA	\$ 50,000.00
5	Construction Support and Management		Con. Costs	15%	\$ 1,037,100.00
Total Project Support Costs					\$ 2,830,700.00
Total Estimated Project Costs					\$ 10,046,500.00
Rounded					\$ 10,050,000.00

Assuptions

- All new paving.
- Only R/W costs are for private properties (not County, City, or State).



Preliminary Opinion of Costs (Capital & Support)

12th Street Interchange Roundabout Concept - SB Option 2a
City of Fortuna

9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$238,000.00	\$238,000.00
2	Remove Metal Beam Guard Railing	LF	550	\$16.00	\$8,800.00
3	Remove Roadside Sign	EA	16	\$102.00	\$1,632.00
4	Remove Asphalt Concrete Dike	LF	482	\$4.00	\$1,928.00
5	Remove Concrete (Curb & Gutter)	LF	910	\$10.00	\$9,100.00
6	Remove Tree	EA	1	\$1,400.00	\$1,400.00
7	Roadway Excavation	CY	4590	\$67.00	\$307,530.00
8	Class 2 Aggregate Base	CY	4170	\$70.00	\$291,900.00
9	Hot Mix Asphalt (Type A)	TON	2350	\$140.00	\$329,000.00
10	Bridge (Riverwalk Drive Over Strong's Creek)	LS	1	\$1,375,000.00	\$1,375,000.00
11	Bridge Widening (12th Street Over US 101)	LS	1	\$950,000.00	\$950,000.00
12	Minor Concrete (Curb)	CY	26	\$1,320.00	\$34,320.00
13	Minor Concrete (Curb - Truck Apron)	CY	17	\$1,160.00	\$19,720.00
14	Minor Concrete (Curb and Gutter)	CY	96	\$806.00	\$77,376.00
15	Minor Concrete (Stamped Concrete - Truck Apron)	CY	90	\$615.00	\$55,350.00
16	Minor Concrete (Sidewalk)	CY	129	\$680.00	\$87,720.00
17	Storm Drain System	LS	1	\$120,000.00	\$120,000.00
18	Midwest Guard Rail System (Wood Post)	LF	515	\$80.00	\$41,200.00
19	Thermoplastic Traffic Stripe	LF	4630	\$1.25	\$5,787.50
20	Thermoplastic Pavement Marking	SQFT	403	\$6.00	\$2,418.00
21	Signs	EA	40	\$350.00	\$14,000.00
22	Lighting & Electrical	LS	1	\$200,000.00	\$200,000.00
23	Planting and Irrigation	SQFT	8200	\$5.00	\$41,000.00
24	Dinsmore Drive Realignment (2a)	LS	1	\$2,086,000.00	\$2,086,000.00
25	Mobilization	LS	1	\$606,200.00	\$606,200.00
26	Minor/ Supplemental Items	%	25%	\$6,061,181.50	\$1,515,295.38
	Subtotal (Construction Costs)				\$8,420,676.88
	Construction Contingency			25%	\$ 2,105,169.22
	Total Construction Costs				\$10,525,846.09
	Total Construction Budget (Rounded)				\$10,525,800.00
	Right of Way (Capital) and Utility Relocation Costs:				
1	Right Of Way	SQFT	0	\$20.00	\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
	Total Right of Way (Capital) and Utility Relocation Costs				\$ 200,000.00
	Total Project Capital Cost				\$10,725,800.00
	Project Support Costs				
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 536,300.00
3	PS&E		Con. Costs	20%	\$ 2,105,200.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$ -
5	Construction Support and Management		Con. Costs	15%	\$ 1,578,900.00
	Total Project Support Costs				\$ 4,220,400.00
	Total Estimated Project Costs				\$ 14,946,200.00
	Rounded				\$ 14,950,000.00

Assumptions

1. All new paving.
2. Only R/W costs are for private properties (not County, City, or State).
3. Removing railroad tracks and equipment not included.



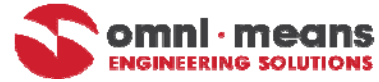
Preliminary Opinion of Costs (Capital Only)

Dinsmore Drive Realignment Alt 2a for 12th Street Interchange Roundabout Concept - SB Option 2a
 City of Fortuna

9/16/2016
 25-3247-03/2132

Construction Costs:

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$14,000.00	\$14,000.00
2	Remove Tree	EA	8	\$1,400.00	\$11,200.00
3	Roadway Excavation	CY	1430	\$67.00	\$95,810.00
4	Class 2 Aggregate Base	CY	3840	\$70.00	\$268,800.00
5	Hot Mix Asphalt (Type A)	TON	2310	\$140.00	\$323,400.00
6	Bridge (Dinsmore Drive Realignment Over Strong's Cr	LS	1	\$1,200,000.00	\$1,200,000.00
7	Minor Concrete (Curb and Gutter)	CY	34	\$806.00	\$27,404.00
8	Minor Concrete (Sidewalk)	CY	42	\$680.00	\$28,560.00
9	Storm Drain System	LS	1	\$50,000.00	\$50,000.00
10	Thermoplastic Traffic Stripe	LF	4740	\$1.25	\$5,925.00
11	Thermoplastic Pavement Marking	SQFT	44	\$6.00	\$264.00
12	Signs	EA	8	\$350.00	\$2,800.00
13	Lighting & Electrical	LS	1	\$50,000.00	\$50,000.00
14	Planting and Irrigation	SQFT	1450	\$5.00	\$7,250.00
15					
	Subtotal (Construction Costs)				\$2,085,413.00



Preliminary Opinion of Costs (Capital & Support)

12th Street Interchange Roundabout Concept - SB Option 2b
City of Fortuna

9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$238,000.00	\$238,000.00
2	Remove Metal Beam Guard Railing	LF	550	\$16.00	\$8,800.00
3	Remove Roadside Sign	EA	16	\$102.00	\$1,632.00
4	Remove Asphalt Concrete Dike	LF	482	\$4.00	\$1,928.00
5	Remove Concrete (Curb & Gutter)	LF	910	\$10.00	\$9,100.00
6	Remove Tree	EA	1	\$1,400.00	\$1,400.00
7	Roadway Excavation	CY	4590	\$67.00	\$307,530.00
8	Class 2 Aggregate Base	CY	4170	\$70.00	\$291,900.00
9	Hot Mix Asphalt (Type A)	TON	2350	\$140.00	\$329,000.00
10	Bridge (Riverwalk Drive Over Strong's Creek)	LS	1	\$1,375,000.00	\$1,375,000.00
11	Bridge Widening (12th Street Over US 101)	LS	1	\$950,000.00	\$950,000.00
12	Minor Concrete (Curb)	CY	26	\$1,320.00	\$34,320.00
13	Minor Concrete (Curb - Truck Apron)	CY	17	\$1,160.00	\$19,720.00
14	Minor Concrete (Curb and Gutter)	CY	96	\$806.00	\$77,376.00
15	Minor Concrete (Stamped Concrete - Truck Apron)	CY	90	\$615.00	\$55,350.00
16	Minor Concrete (Sidewalk)	CY	129	\$680.00	\$87,720.00
17	Storm Drain System	LS	1	\$120,000.00	\$120,000.00
18	Midwest Guard Rail System (Wood Post)	LF	515	\$80.00	\$41,200.00
19	Thermoplastic Traffic Stripe	LF	4630	\$1.25	\$5,787.50
20	Thermoplastic Pavement Marking	SQFT	403	\$6.00	\$2,418.00
21	Signs	EA	40	\$350.00	\$14,000.00
22	Lighting & Electrical	LS	1	\$200,000.00	\$200,000.00
23	Planting and Irrigation	SQFT	8200	\$5.00	\$41,000.00
24	Dinsmore Drive Realignment (2b)	LS	1	\$643,000.00	\$643,000.00
25	Mobilization	LS	1	\$461,900.00	\$461,900.00
26	Minor/ Supplemental Items	%	25%	\$5,080,081.50	\$1,270,020.38
	Subtotal (Construction Costs)				\$6,588,101.88
	Construction Contingency			25%	\$ 1,647,025.47
	Total Construction Costs				\$8,235,127.34
	Total Construction Budget (Rounded)				\$8,235,100.00
Right of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00	\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
	Total Right of Way (Capital) and Utility Relocation Costs				\$ 200,000.00
	Total Project Capital Cost				\$8,435,100.00
Project Support Costs					
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 421,800.00
3	PS&E		Con. Costs	20%	\$ 1,647,100.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$ -
5	Construction Support and Management		Con. Costs	15%	\$ 1,235,300.00
	Total Project Support Costs				\$ 3,304,200.00
	Total Estimated Project Costs				\$ 11,739,300.00
	Rounded				\$ 11,740,000.00

Assuptions

1. All new paving.
2. Only R/W costs are for private properties (not County, City, or State).
3. Removing railroad tracks and equipment not included.



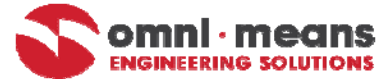
Preliminary Opinion of Costs (Capital Only)

Dinsmore Drive Realignment Alt 2b for 12th Street Interchange Roundabout Concept - SB Option 2b
 City of Fortuna

9/16/2016
 25-3247-03/2132

Construction Costs:

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$14,000.00	\$14,000.00
2	Remove Tree	EA	5	\$1,400.00	\$7,000.00
3	Roadway Excavation	CY	1350	\$67.00	\$90,450.00
4	Class 2 Aggregate Base	CY	1980	\$70.00	\$138,600.00
5	Hot Mix Asphalt (Type A)	TON	950	\$140.00	\$133,000.00
6	Minor Concrete (Curb and Gutter)	CY	20	\$806.00	\$16,120.00
7	Minor Concrete (Sidewalk)	CY	285	\$680.00	\$193,800.00
8	Storm Drain System	LS	1	\$20,000.00	\$20,000.00
9	Thermoplastic Traffic Stripe	LF	1400	\$1.25	\$1,750.00
10	Thermoplastic Pavement Marking	SQFT	22	\$6.00	\$132.00
11	Signs	EA	3	\$350.00	\$1,050.00
12	Lighting & Electrical	LS	1	\$20,000.00	\$20,000.00
13	Planting and Irrigation	SQFT	1400	\$5.00	\$7,000.00
14					
	Subtotal (Construction Costs)				\$642,902.00



Preliminary Opinion of Costs (Capital & Support)

12th Street Interchange Roundabout Concept - SB Option 2c
City of Fortuna

9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$238,000.00	\$238,000.00
2	Remove Metal Beam Guard Railing	LF	550	\$16.00	\$8,800.00
3	Remove Roadside Sign	EA	16	\$102.00	\$1,632.00
4	Remove Asphalt Concrete Dike	LF	482	\$4.00	\$1,928.00
5	Remove Concrete (Curb & Gutter)	LF	910	\$10.00	\$9,100.00
6	Remove Tree	EA	1	\$1,400.00	\$1,400.00
7	Roadway Excavation	CY	4590	\$67.00	\$307,530.00
8	Class 2 Aggregate Base	CY	4170	\$70.00	\$291,900.00
9	Hot Mix Asphalt (Type A)	TON	2350	\$140.00	\$329,000.00
10	Bridge (Riverwalk Drive Over Strong's Creek)	LS	1	\$1,375,000.00	\$1,375,000.00
11	Bridge Widening (12th Street Over US 101)	LS	1	\$950,000.00	\$950,000.00
12	Minor Concrete (Curb)	CY	26	\$1,320.00	\$34,320.00
13	Minor Concrete (Curb - Truck Apron)	CY	17	\$1,160.00	\$19,720.00
14	Minor Concrete (Curb and Gutter)	CY	96	\$806.00	\$77,376.00
15	Minor Concrete (Stamped Concrete - Truck Apron)	CY	90	\$615.00	\$55,350.00
16	Minor Concrete (Sidewalk)	CY	129	\$680.00	\$87,720.00
17	Storm Drain System	LS	1	\$120,000.00	\$120,000.00
18	Midwest Guard Rail System (Wood Post)	LF	515	\$80.00	\$41,200.00
19	Thermoplastic Traffic Stripe	LF	4630	\$1.25	\$5,787.50
20	Thermoplastic Pavement Marking	SQFT	403	\$6.00	\$2,418.00
21	Signs	EA	40	\$350.00	\$14,000.00
22	Lighting & Electrical	LS	1	\$200,000.00	\$200,000.00
23	Planting and Irrigation	SQFT	8200	\$5.00	\$41,000.00
24	Dinsmore Drive Realignment (2c)	LS	1	\$266,000.00	\$266,000.00
25	Mobilization	LS	1	\$424,200.00	\$424,200.00
26	Minor/ Supplemental Items	%	25%	\$4,241,181.50	\$1,060,295.38
	Subtotal (Construction Costs)				\$5,963,676.88
	Construction Contingency			25%	\$ 1,490,919.22
	Total Construction Costs				\$7,454,596.09
	Total Construction Budget (Rounded)				\$7,454,600.00
Right of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00	\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
	Total Right of Way (Capital) and Utility Relocation Costs				\$ 200,000.00
	Total Project Capital Cost				\$7,654,600.00
Project Support Costs					
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 382,800.00
3	PS&E		Con. Costs	20%	\$ 1,491,000.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$ -
5	Construction Support and Management		Con. Costs	15%	\$ 1,118,200.00
	Total Project Support Costs				\$ 2,992,000.00
	Total Estimated Project Costs				\$ 10,646,600.00
	Rounded				\$ 10,650,000.00

Assuptions

1. All new paving.
2. Only R/W costs are for private properties (not County, City, or State).
3. Removing railroad tracks and equipment not included.



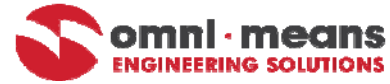
Preliminary Opinion of Costs (Capital Only)

Dinsmore Drive Realignment 2c Alt for 12th Street Interchange Roundabout Concept - SB Option 2c
 City of Fortuna

9/16/2016
 25-3247-03/2132

Construction Costs:

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$14,000.00	\$14,000.00
2	Remove Tree	EA	4	\$1,400.00	\$5,600.00
3	Roadway Excavation	CY	490	\$67.00	\$32,830.00
4	Class 2 Aggregate Base	CY	860	\$70.00	\$60,200.00
5	Hot Mix Asphalt (Type A)	TON	490	\$140.00	\$68,600.00
6	Minor Concrete (Curb and Gutter)	CY	15	\$806.00	\$12,090.00
7	Minor Concrete (Sidewalk)	CY	36	\$680.00	\$24,480.00
8	Storm Drain System	LS	1	\$20,000.00	\$20,000.00
9	Thermoplastic Traffic Stripe	LF	450	\$1.25	\$562.50
10	Thermoplastic Pavement Marking	SQFT	22	\$6.00	\$132.00
11	Signs	EA	3	\$350.00	\$1,050.00
12	Lighting & Electrical	LS	1	\$20,000.00	\$20,000.00
13	Planting and Irrigation	SQFT	1210	\$5.00	\$6,050.00
	Subtotal (Construction Costs)				\$265,594.50



Preliminary Opinion of Costs (Capital & Support)

12th Street Interchange Roundabout Concept - NB Option 1
City of Fortuna

9/16/2016
25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$266,000.00	\$266,000.00
2	Remove Roadside Sign	EA	16	\$102.00	\$1,632.00
3	Remove Asphalt Concrete Dike	LF	215	\$4.00	\$860.00
4	Remove Concrete (Curb & Gutter)	LF	2005	\$10.00	\$20,050.00
5	Remove Tree	EA	1	\$1,400.00	\$1,400.00
6	Roadway Excavation	CY	7140	\$67.00	\$478,380.00
7	Class 2 Aggregate Base	CY	9350	\$70.00	\$654,500.00
8	Hot Mix Asphalt (Type A)	TON	5290	\$140.00	\$740,600.00
9	Bridge Widening (12th Street Over US 101)	LS	1	\$950,000.00	\$950,000.00
10	Bridge Widening (NB 101 On-Ramp Over Rohner Creek)	LS	1	\$550,000.00	\$550,000.00
11	Detectable Warning Surface	SQFT	660	\$35.00	\$23,100.00
12	Minor Concrete (Curb)	CY	35	\$1,320.00	\$46,200.00
13	Minor Concrete (Curb - Truck Apron)	CY	27	\$1,160.00	\$31,320.00
14	Minor Concrete (Curb and Gutter)	CY	231	\$806.00	\$186,186.00
15	Minor Concrete (Driveway)	CY	43	\$420.00	\$18,060.00
16	Minor Concrete (Stamped Concrete)	CY	7	\$820.00	\$5,740.00
17	Minor Concrete (Stamped Concrete - Truck Apron)	CY	100	\$615.00	\$61,500.00
18	Minor Concrete (Sidewalk)	CY	313	\$680.00	\$212,840.00
19	Storm Drain System	LS	1	\$120,000.00	\$120,000.00
20	Thermoplastic Traffic Stripe	LF	9610	\$1.25	\$12,012.50
21	Thermoplastic Pavement Marking	SQFT	1904	\$6.00	\$11,424.00
22	Signs	EA	40	\$350.00	\$14,000.00
23	Lighting & Electrical	LS	1	\$200,000.00	\$200,000.00
24	Planting and Irrigation	SQFT	21300	\$5.00	\$106,500.00
25	Mobilization	LS	1	\$444,700.00	\$444,700.00
26	Minor/ Supplemental Items	%	25%	\$4,446,304.50	\$1,111,576.13
	Subtotal (Construction Costs)				\$ 6,268,580.63
	Construction Contingency			25%	\$ 1,567,145.16
	Total Construction Costs				\$ 7,835,725.78
	Total Construction Budget (Rounded)				\$ 7,835,800.00
	Right of Way (Capital) and Utility Relocation Costs:				
1	Right Of Way	SQFT	51700	\$20.00	\$1,034,000.00
2	Utility Relocation	ALLOW	1	\$200,000.00	\$200,000.00
	Total Right of Way (Capital) and Utility Relocation Costs				\$ 1,234,000.00
	Total Project Capital Cost				\$ 9,069,800.00
	Project Support Costs				
1	Project Initiation Document			TBD	-
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$ 453,500.00
3	PS&E		Con. Costs	20%	\$ 1,567,200.00
4	Right of Way Engineering & Acquisition		4-Parcels	\$25k/EA	\$ 100,000.00
5	Construction Support and Management		Con. Costs	15%	\$ 1,175,400.00
	Total Project Support Costs				\$ 3,296,100.00
	Total Estimated Project Costs				\$ 12,365,900.00
	Rounded				\$ 12,370,000.00

Assumptions

1. All new paving.
2. Only R/W costs are for private properties (not County, City, or State).
3. Removing railroad tracks and equipment not included.

MORRISON STRUCTURES, INC.

1890 Park Marina Drive, Suite 104

Redding, CA 96001

BRIDGE GENERAL PLAN ESTIMATE

OR PLANNING ESTIMATE

STRUCTURE	Strongs Cr Br on Riverwalk Replace	4C-085	COUNTY	HUM	RCVD. BY
TYPE	Signal Concept - CIP SLAB	DIST.	1	ROUTE	DINSMORE DR
LENGTH	99	X WIDTH	74	=	7326 SF
PROJECT INCLUDES			1	STRUCTURES	QUANTITIES BY
AND \$				ROADWORK	RLM
				CHECKED BY	DATE
					EST. NO. 1
					DATE 8/29/2016

	CONTRACT ITEMS	UNIT	QUANTITY	PRICE	AMOUNT
1	STRUCTURE EXCAVATION (BRIDGE)	CY	430	\$ 157.50	\$ 67,725.00
2	STRUCTURE BACKFILL (BRIDGE)	CY	320	\$ 112.50	\$ 36,000.00
3	FURNISH CLASS 90 PILING ALT "V"	LF	3832	\$ 46.00	\$ 176,272.00
4	DRIVE CLASS 90 PILING ALT "V"	EA	32	\$ 1,625.00	\$ 52,000.00
5	STRUCTURAL CONCRETE, BRIDGE	CY	800	\$ 1,050.00	\$ 840,000.00
6	JOINT SEAL (MR=1 ")	LF	148	\$ 70.00	\$ 10,360.00
7	BAR REINFORCING STEEL (BRIDGE)	LB	123000	\$ 1.40	\$ 172,200.00
8	CONCRETE BARRIER (TYPE 732 SW)	LF	280	\$ 280.00	\$ 78,400.00
9	TUBULAR HANDRAILING	LF	280	\$ 70.00	\$ 19,600.00
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COMMENTS: _____

 COSTS ESTIM FOR 2016 CONSTRUCTION

SUBTOTAL		\$ 1,452,557.00
MOBILIZATION	(10 %)	\$ 161,395.22
SUBTOTAL STRUCTURE ITEMS		\$ 1,613,952.22
CONTINGENCIES	(25 %)	\$ 403,488.06
BRIDGE TOTAL	(\$ 275 / SF	\$ 2,017,440.28
BRIDGE REMOVAL (CONTINGENCIES INCL)		\$ 50,000.00
WORK BY RAILROAD OR UTILITY FORCES		\$ -
GRAND TOTAL		\$ 2,067,440.28
FOR BUDGET PURPOSES - USE		\$ 2,068,000.00

COMMENTS: _____

MORRISON STRUCTURES, INC.

1890 Park Marina Dr., Ste 104

Redding, CA 96001

BRIDGE GENERAL PLAN ESTIMATE

OR PLANNING ESTIMATE

STRUCTURE	Kenmar Rd Ret Wall RW@US101			COUNTY	HUM	RCVD. BY	
TYPE	TYPE 1 & GRND ANCHOR	DIST.	1	ROUTE	US101	P.M.	
LENGTH	180	X WIDTH	14.5	=	2610	SF	EST. NO. 1
PROJECT INCLUDES	1 ret wall	STRUCTURES		QUANTITIES BY	RLM	DATE	9/2/2016
AND \$		ROADWORK		CHECKED BY		DATE	

#	CONTRACT ITEMS	UNIT	QUANTITY	PRICE	AMOUNT
1	STRUCTURE EXCAVATION (RETAINING WALL)	CY	260	\$ 125.00	\$ 32,500.00
2	STRUCTURE EXCAVATION (GROUND ANCHOR WALL)	CY	106	\$ 125.00	\$ 13,250.00
3	STRUCTURE BACKFILL (RETAINING WALL)	CY	200	\$ 125.00	\$ 25,000.00
4	STRUCTURE BACKFILL (GROUND ANCHOR WALL)	CY	10	\$ 275.00	\$ 2,750.00
5	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	CY	14	\$ 205.00	\$ 2,870.00
6	GROUND ANCHOR	EA	60	\$ 5,450.00	\$ 327,000.00
7	STRUCTURAL CONCRETE, RETAINING WALL	CY	125	\$ 825.00	\$ 103,125.00
8	BAR REINFORCING STEEL (RETAINING WALL)	LB	27150	\$ 1.35	\$ 36,652.50
9	STRUCTURAL SHOTCRETE	CY	56	\$ 1,125.00	\$ 63,000.00
10	3" PLASTIC PIPE (RETAINING WALL)	LF	96	\$ 32.00	\$ 3,072.00
11	GEOCOMPOSITE DRAIN	LS	1	\$ 6,000.00	\$ 6,000.00
12	MINOR CONCRETE (GUTTER)	CY	6	\$ 1,350.00	\$ 8,100.00
13	CABLE RAILING	LF	180	\$ 63.00	\$ 11,340.00
14				\$ -	\$ -
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31				\$ -	\$ -

COMMENTS: _____ _____ COST ESTIM FOR 2016 CONSTRUCTION _____ _____ _____ _____ _____ _____ _____ _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>SUBTOTAL</td><td style="text-align: right;">\$ 634,659.50</td></tr> <tr><td>MOBILIZATION (10 %)</td><td style="text-align: right;">\$ 70,517.72</td></tr> <tr><td>SUBTOTAL STRUCTURE ITEMS</td><td style="text-align: right;">\$ 705,177.22</td></tr> <tr><td>CONTINGENCIES (25 %)</td><td style="text-align: right;">\$ 176,294.31</td></tr> <tr><td>TOTAL (\$ 338 / SF)</td><td style="text-align: right;">\$ 881,471.53</td></tr> <tr><td>BRIDGE REMOVAL (CONTINGENCIES INCL)</td><td style="text-align: right;">\$ -</td></tr> <tr><td>WORK BY RAILROAD OR UTILITY FORCES</td><td style="text-align: right;">\$ -</td></tr> <tr><td>GRAND TOTAL</td><td style="text-align: right;">\$ 881,471.53</td></tr> <tr><td>FOR BUDGET PURPOSES - USE</td><td style="text-align: right;">\$ 881,000.00</td></tr> </table>	SUBTOTAL	\$ 634,659.50	MOBILIZATION (10 %)	\$ 70,517.72	SUBTOTAL STRUCTURE ITEMS	\$ 705,177.22	CONTINGENCIES (25 %)	\$ 176,294.31	TOTAL (\$ 338 / SF)	\$ 881,471.53	BRIDGE REMOVAL (CONTINGENCIES INCL)	\$ -	WORK BY RAILROAD OR UTILITY FORCES	\$ -	GRAND TOTAL	\$ 881,471.53	FOR BUDGET PURPOSES - USE	\$ 881,000.00
SUBTOTAL	\$ 634,659.50																		
MOBILIZATION (10 %)	\$ 70,517.72																		
SUBTOTAL STRUCTURE ITEMS	\$ 705,177.22																		
CONTINGENCIES (25 %)	\$ 176,294.31																		
TOTAL (\$ 338 / SF)	\$ 881,471.53																		
BRIDGE REMOVAL (CONTINGENCIES INCL)	\$ -																		
WORK BY RAILROAD OR UTILITY FORCES	\$ -																		
GRAND TOTAL	\$ 881,471.53																		
FOR BUDGET PURPOSES - USE	\$ 881,000.00																		

COMMENTS:

MORRISON STRUCTURES, INC.

1890 Park Marina Drive, Suite 104

Redding, CA 96001

BRIDGE GENERAL PLAN ESTIMATE

OR PLANNING ESTIMATE

STRUCTURE	KENMAR RD UC/HWY 101 (04-0128)	Replace	COUNTY	HUM	RCVD. BY
TYPE	PC PS I-GIRDER	DIST.	1	ROUTE	101
LENGTH	114	X WIDTH	86.33	=	9842 SF
PROJECT INCLUDES			1	STRUCTURES	QUANTITIES BY RLM
AND \$			ROADWORK	CHECKED BY	DATE 9/2/2016

	CONTRACT ITEMS	UNIT	QUANTITY	PRICE	AMOUNT
1	TEMPORARY RAILING (TYPE K)	LF	1480	\$ 45.00	\$ 66,600.00
2	STRUCTURE EXCAVATION (BRIDGE)	CY	3235	\$ 80.00	\$ 258,800.00
3	STRUCTURE EXCAVATION (RET WALL)	CY	1320	\$ 80.00	\$ 105,600.00
4	STRUCTURE BACKFILL (BRIDGE)	CY	1623	\$ 80.00	\$ 129,840.00
5	STRUCTURE BACKFILL (RET WALL)	CY	700	\$ 70.00	\$ 49,000.00
6	FURNISH PILING(CLASS 90)(ALT "V")	LF	12342	\$ 40.00	\$ 493,680.00
7	DRIVE PILING (CLASS 90)(ALT "V")	EA	308	\$ 1,275.00	\$ 392,700.00
8	STRUCTURAL CONCRETE APPROACH SLAB	CY	211	\$ 1,150.00	\$ 242,650.00
9	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	363	\$ 450.00	\$ 163,350.00
10	STRUCTURAL CONCRETE, BRIDGE	CY	875	\$ 1,200.00	\$ 1,050,000.00
11	STRUCTURAL CONCRETE, RETAINING WALL	CY	600	\$ 1,000.00	\$ 600,000.00
12	FURNISH PC PS CONC GIRDER (110'-120')	EA	13	\$ 30,420.00	\$ 395,460.00
13	ERECT PC PS CONC GIRDER	EA	13	\$ 6,425.00	\$ 83,525.00
14	JOINT SEAL (MR=1")	LF	180	\$ 75.00	\$ 13,500.00
15	BAR REINFORCING STEEL (BRIDGE)	LB	206000	\$ 1.35	\$ 278,100.00
16	BAR REINFORCING STEEL (RETAINING WALL)	LB	71000	\$ 1.35	\$ 95,850.00
17	CONCRETE BARRIER (TYPE 742)	LF	348	\$ 230.00	\$ 80,040.00
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COMMENTS: 2-STAGE REMOVE
 AND REPLACE
 Ret Wall type Wing Walls on Piles
 COSTS ESTIM FOR 2016 CONSTRUCTION

SUBTOTAL			\$ 4,498,695.00
MOBILIZATION	(10 %)		\$ 499,855.00
SUBTOTAL STRUCTURE ITEMS			\$ 4,998,550.00
CONTINGENCIES	(25 %)		\$ 1,249,637.50
BRIDGE TOTAL	(\$ 635 / SF		\$ 6,248,187.50
BRIDGE REMOVAL (CONTINGENCIES INCL)			\$ 180,000.00
WORK BY RAILROAD OR UTILITY FORCES			\$ -
GRAND TOTAL			\$ 6,428,187.50
FOR BUDGET PURPOSES - USE			\$ 6,429,000.00

COMMENTS: _____

