

**SAN FELIPE RD & SHORE RD BARRIER RAIL REPLACEMENT**  
**SAN BENITO COUNTY**  
**March 14, 2019**

**ENGINEER'S ESTIMATE**

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE	TOTAL COST
1	05XXXX	Construction Survey	LS	1	\$10,000.00	\$10,000.00
2	120090	Construction Area Signs	LS	1	\$5,000.00	\$5,000.00
3	120100	Traffic Control System	LS	1	\$35,000.00	\$35,000.00
4	120159	Temporary Traffic Stripe (Paint)	LF	1,210	\$0.35	\$423.50
5	120165	Channelizer (Surface Mounted)	EA	70	\$30.00	\$2,100.00
6	120300	Temporary Pavement Marker	EA	9	\$3.00	\$27.00
7	128651	Portable Changeable Message Sign	EA	2	\$5,000.00	\$10,000.00
8	129000	Temporary Railing (Type K)	LF	1,180	\$30.00	\$35,400.00
9	129100	Temporary Crash Cushion Module	EA	56	\$180.00	\$10,080.00
10	12XXXX	Temporary Alternative Crash Cushion	EA	4	\$7,500.00	\$30,000.00
11	130200	Prepare Water Pollution Control Program	LS	1	\$5,000.00	\$5,000.00
12	150711	Remove Painted Traffic Stripe	LF	4,290	\$0.50	\$2,145.00
13	150712	Remove Painted Pavement Marking	SF	64	\$2.50	\$160.00
14	150722	Remove Pavement Marker	EA	45	\$1.00	\$45.00
15	157560	Bridge Removal (Portion)	LS	1	\$70,000.00	\$70,000.00
16	15XXXX	Pothole Utility	EA	2	\$800.00	\$1,600.00
17	160102	Clearing and Grubbing	LS	1	\$4,000.00	\$4,000.00
18	190101	Roadway Excavation	CY	40	\$150.00	\$6,000.00
19	198010	Imported Borrow	CY	100	\$100.00	\$10,000.00
20	390132	Hot Mix Asphalt (Type A)	TON	70	\$200.00	\$14,000.00
21	510053	Structural Concrete, Bridge	CY	12	\$4,000.00	\$48,000.00
22	520102	Bar Reinforcing Steel (Bridge)	LB	3000	\$2.50	\$7,500.00
23	839543	Transition Railing (Type WB-31)	EA	6	\$3,500.00	\$21,000.00
24	839584	Alternative In-Line Terminal System	EA	5	\$3,500.00	\$17,500.00
25	839585	Alternative Flared Terminal System	EA	1	\$3,600.00	\$3,600.00
26	839718	Concrete Barrier (Type 732R)	LF	145	\$650.00	\$94,250.00
27	83XXXX	Alternative Crash Cushion	EA	2	\$37,500.00	\$75,000.00
28	832005	Midwest Guard Railing (Wood Post)	LF	75	\$60.00	\$4,500.00
29	840504	Paint 4" Traffic Stripe (2-Coat)	LF	3,400	\$1.65	\$5,610.00
30	840515	Paint Pavement Marking (2-Coat)	SF	22	\$5.00	\$110.00
31	850111	Pavement Marker (Retroreflective)	EA	18	\$1.30	\$23.40
32	999990	Mobilization	LS	1	\$58,674.88	\$58,674.88
Subtotal						\$586,748.78
Contingency (10%)						\$58,674.88
<b>Total</b>						<b>\$645,423.66</b>