

**SR 120 / UNION ROAD INTERCHANGE PROJECT**

Engineers Estimate \$20,000,000

January 30, 2019

**TEICHERT CONSTRUCTION - STOCKTON, CA**

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITIES	UNIT	UNIT PRICE	TOTAL
<b>ROADWAY ITEMS</b>					
1	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	1	LS	\$ 5,000.00	\$ 5,000.00
2	DEVELOP WATER SUPPLY	1	LS	\$ 50,000.00	\$ 50,000.00
3	CONSTRUCTION AREA SIGNS	1	LS	\$ 25,000.00	\$ 25,000.00
4	TRAFFIC CONTROL SYSTEM	1	LS	\$ 1,335,000.00	\$ 1,335,000.00
5	TYPE III BARRICADE	1	EA	\$ 100.00	\$ 100.00
6	TEMPORARY PAVEMENT MARKING (PAINT)	1,112	SQFT	\$ 4.50	\$ 5,004.00
7	TEMPORARY TRAFFIC STRIPE (PAINT)	65,269	LF	\$ 0.50	\$ 32,634.50
8	CHANNELIZER (SURFACE MOUNTED)	507	EA	\$ 40.00	\$ 20,280.00
9	TEMPORARY PAVEMENT MARKER	1,007	EA	\$ 5.50	\$ 5,538.50
10	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA	\$ 25,000.00	\$ 50,000.00
11	TEMPORARY RAILING (TYPE K)	9,500	LF	\$ 16.00	\$ 152,000.00
12	TEMPORARY CRASH CUSHION MODULE	123	EA	\$ 175.00	\$ 21,525.00
13	JOB SITE MANAGEMENT	1	LS	\$ 50,000.00	\$ 50,000.00
14	PREPARE STORM WATER POLLUTION PREVENTION PLAN	1	LS	\$ 2,500.00	\$ 2,500.00
15	STORM WATER ANNUAL REPORT	2	EA	\$ 1,200.00	\$ 2,400.00
16	TEMPORARY DRAINAGE INLET PROTECTION	20	EA	\$ 250.00	\$ 5,000.00
17	TEMPORARY CONSTRUCTION ENTRANCE	4	EA	\$ 6,000.00	\$ 24,000.00
18	TEMPORARY CONCRETE WASHOUT	1	LS	\$ 20,000.00	\$ 20,000.00
19	CLEARING AND GRUBBING (LS)	1	LS	\$ 95,000.00	\$ 95,000.00
20	ROADWAY EXCAVATION	68,680	CY	\$ 18.00	\$ 1,236,240.00
21	IMPORTED BORROW (CY)	274,700	CY	\$ 14.00	\$ 3,845,800.00
22	8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	1,216	LF	\$ 22.00	\$ 26,752.00
23	IMPORTED TOPSOIL (CY)	3,163	CY	\$ 29.00	\$ 91,727.00
24	BONDED FIBER MATRIX (SQFT)	107,724	SQFT	\$ 0.15	\$ 16,158.60
25	HYDROMULCH	1,366,765	SQFT	\$ 0.03	\$ 41,002.95
26	FIBER ROLLS	30,857	LF	\$ 2.50	\$ 77,142.50
27	HYDROSEED	1,582,213	SQFT	\$ 0.07	\$ 110,754.91
28	COMPOST (CY)	145	CY	\$ 45.00	\$ 6,525.00
29	CLASS 2 AGGREGATE BASE (CY)	24,674	CY	\$ 48.00	\$ 1,184,352.00
30	ASPHALT TREATED PERMEABLE BASE	1,352	CY	\$ 130.00	\$ 175,760.00
31	HOT MIX ASPHALT (TYPE A)	25,373	TON	\$ 80.00	\$ 2,029,840.00
32	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	5,421	TON	\$ 120.00	\$ 650,520.00
33	COLD PLANE ASPHALT CONCRETE PAVEMENT	44,754	SQYD	\$ 2.00	\$ 89,508.00
34	REMOVE BASE AND SURFACING	50	CY	\$ 120.00	\$ 6,000.00
35	54" CAST-IN-DRILLED-HOLE CONCRETE PILING	28	LF	\$ 1,000.00	\$ 28,000.00
36	60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	203	LF	\$ 1,000.00	\$ 203,000.00
37	MINOR CONCRETE (MINOR STRUCTURE) [F]	29	CY	\$ 1,350.00	\$ 39,150.00
38	FURNISH SIGN STRUCTURE (TRUSS) [F]	169,360	LB	\$ 4.40	\$ 745,184.00
39	INSTALL SIGN STRUCTURE (TRUSS) [F]	169,360	LB	\$ 0.30	\$ 50,808.00
40	REMOVE SIGN STRUCTURE (EA)	4	EA	\$ 3,500.00	\$ 14,000.00
41	RELOCATE SIGN STRUCTURE	2	EA	\$ 17,500.00	\$ 35,000.00
42	PEDESTRIAN BARRICADE	1	EA	\$ 750.00	\$ 750.00
43	18" ALTERNATIVE PIPE CULVERT	1,555	LF	\$ 65.00	\$ 101,075.00
44	36" ALTERNATIVE PIPE CULVERT	16	LF	\$ 450.00	\$ 7,200.00
45	8" PLASTIC PIPE	32	LF	\$ 60.00	\$ 1,920.00
46	18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	434	LF	\$ 85.00	\$ 36,890.00
47	3" PLASTIC PIPE (EDGE DRAIN)	3,666	LF	\$ 25.00	\$ 91,650.00
48	3" PLASTIC PIPE (EDGE DRAIN OUTLET)	746	LF	\$ 40.00	\$ 29,840.00
49	18" CONCRETE FLARED END SECTION	13	EA	\$ 1,300.00	\$ 16,900.00
50	18" ALTERNATIVE FLARED END SECTION	21	EA	\$ 800.00	\$ 16,800.00
51	ABANDON CULVERT (EA)	1	EA	\$ 2,500.00	\$ 2,500.00
52	REMOVE INLET	1	EA	\$ 1,000.00	\$ 1,000.00

53	REMOVE FLARED END SECTION (EA)	11	EA	\$	500.00	\$	5,500.00
54	ROCK SLOPE PROTECTION (60 lb, Class II, METHOD B) (CY)	187	CY	\$	200.00	\$	37,400.00
55	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	571	SQYD	\$	20.00	\$	11,420.00
56	MINOR CONCRETE (STAIRCASE)	129	SY	\$	400.00	\$	51,600.00
57	MINOR CONCRETE (CURB TYPE A1-8)	135	CY	\$	950.00	\$	128,250.00
58	MINOR CONCRETE (CURB TYPE A2-6)	66	CY	\$	800.00	\$	52,800.00
59	MINOR CONCRETE (DRIVEWAY)	25	CY	\$	500.00	\$	12,500.00
60	MINOR CONCRETE (SIDEWALK)	43	CY	\$	450.00	\$	19,350.00
61	MINOR CONCRETE (TEXTURED PAVING)	404	CY	\$	825.00	\$	333,300.00
62	MINOR CONCRETE (CURB RAMP)	6	CY	\$	2,000.00	\$	12,000.00
63	MISCELLANEOUS IRON AND STEEL [F]	3,837	LB	\$	5.00	\$	19,185.00
64	SURVEY MONUMENT (TYPE D)	2	EA	\$	1,000.00	\$	2,000.00
65	REMOVE AND REPLACE MONUMENT	2	EA	\$	1,500.00	\$	3,000.00
66	CHAIN LINK FENCE (TYPE CL-6)	241	LF	\$	35.00	\$	8,435.00
67	REMOVE CHAIN LINK FENCE	383	LF	\$	5.00	\$	1,915.00
68	DELINEATOR (CLASS 1)	123	EA	\$	75.00	\$	9,225.00
69	PAVEMENT MARKER (RETROREFLECTIVE)	2,195	EA	\$	5.50	\$	12,072.50
70	OBJECT MARKER	28	EA	\$	40.00	\$	1,120.00
71	REMOVE MARKER	545	EA	\$	1.00	\$	545.00
72	REMOVE ROADSIDE SIGN	35	EA	\$	100.00	\$	3,500.00
73	RELOCATE ROADSIDE SIGN	15	EA	\$	250.00	\$	3,750.00
74	RELOCATE ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD)	8	EA	\$	100.00	\$	800.00
75	FURNISH LAMINATED PANEL SIGN (1"- TYPE A)	1,766.60	SQFT	\$	32.00	\$	56,531.20
76	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	915	SQFT	\$	17.00	\$	15,555.00
77	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	10	SQFT	\$	22.00	\$	220.00
78	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-FRAMED)	28	SQFT	\$	50.00	\$	1,400.00
79	ROADSIDE SIGN - ONE POST	79	EA	\$	180.00	\$	14,220.00
80	ROADSIDE SIGN - TWO POST	1	EA	\$	325.00	\$	325.00
81	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	4	EA	\$	100.00	\$	400.00
82	MIDWEST GUARDRAIL SYSTEM (STEEL POST)	937.5	LF	\$	40.00	\$	37,500.00
83	VEGETATION CONTROL (MINOR CONCRETE)	1,560	SQYD	\$	70.00	\$	109,200.00
84	METAL RAILING (54")	1,115	LF	\$	150.00	\$	167,250.00
85	DOUBLE MIDWEST GUARDRAIL SYSTEM (STEEL POST)	100	LF	\$	50.00	\$	5,000.00
86	HANDRAILING [F]	171	LF	\$	425.00	\$	72,675.00
87	CONNECT GUARD RAILING TO STRUCTURE [F]	6	EA	\$	105.00	\$	630.00
88	TRANSITION RAILING (TYPE WB-31)	5	EA	\$	4,300.00	\$	21,500.00
89	RAIL TENSIONING ASSEMBLY	2	EA	\$	650.00	\$	1,300.00
90	END ANCHOR ASSEMBLY (TYPE SFT)	13	EA	\$	750.00	\$	9,750.00
91	ALTERNATIVE IN-LINE TERMINAL SYSTEM	15	EA	\$	3,500.00	\$	52,500.00
92	CRASH CUSHION (TYPE CAT) BACKUP	2	EA	\$	5,300.00	\$	10,600.00
93	CONCRETE BARRIER (TYPE 60MC)	177	LF	\$	275.00	\$	48,675.00
94	CONCRETE BARRIER (TYPE 842B) [F]	389	LF	\$	180.00	\$	70,020.00
95	REMOVE GUARDRAIL	1,445	LF	\$	6.00	\$	8,670.00
96	THERMOPLASTIC TRAFFIC STRIPE	84,449	LF	\$	1.40	\$	118,228.60
97	THERMOPLASTIC PAVEMENT MARKING	2,933	SQFT	\$	9.00	\$	26,397.00
98	REMOVE THERMOPLASTIC TRAFFIC STRIPE	28,954	LF	\$	0.75	\$	21,715.50
99	12" RUMBLE STRIP (ASPHALT CONCRETE PAVEMENT)	62	STA	\$	200.00	\$	12,400.00
<b>STRUCTURE (UNION OVERCROSSING)</b>							
100	STRUCTURE EXCAVATION (BRIDGE) [F]	490	CY	\$	100.00	\$	49,000.00
101	STRUCTURE BACKFILL (BRIDGE) [F]	318	CY	\$	110.00	\$	34,980.00
102	LEAN CONCRETE BACKFILL [F]	11	CY	\$	350.00	\$	3,850.00
103	12" WATER SUPPLY LINE	263	LF	\$	375.00	\$	98,625.00
104	FURNISH PILING (CLASS 200) (ALTERNATIVE W)	4,851	LF	\$	65.00	\$	315,315.00
105	DRIVE PILE (CLASS 200) (ALTERNATIVE W)	78	EA	\$	2,250.00	\$	175,500.00
106	PRESTRESSING CAST-IN-PLACE CONCRETE	1	LS	\$	130,000.00	\$	130,000.00
107	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R 10S)	15	CY	\$	1,375.00	\$	20,625.00
108	STRUCTURAL CONCRETE, BRIDGE FOOTING [F]	174	CY	\$	560.00	\$	97,440.00
109	STRUCTURAL CONCRETE, BRIDGE [F]	657	CY	\$	850.00	\$	558,450.00
110	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) [F]	349	CY	\$	810.00	\$	282,690.00
111	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ 10) [F]	38	CY	\$	1,150.00	\$	43,700.00

112	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R 10D)	15	CY	\$	1,800.00	\$	27,000.00
113	DRILL & BOND DOWEL	795	LF	\$	55.00	\$	43,725.00
114	CLEAN EXPANSION JOINT	174	LF	\$	50.00	\$	8,700.00
115	JOINT SEAL (MR 1/2")	91	LF	\$	100.00	\$	9,100.00
116	JOINT SEAL (MR 1 1/2")	274	LF	\$	150.00	\$	41,100.00
117	BAR REINFORCING STEEL (BRIDGE) [F]	280,624	LB	\$	1.25	\$	350,780.00
118	BAR REINFORCING STEEL (EPOXY COATED) (BRIDGE) [F]	5,945	LB	\$	4.00	\$	23,780.00
119	HEADED BAR REINFORCEMENT [F]	234	EA	\$	25.00	\$	5,850.00
120	FURNISH POLYESTER CONCRETE OVERLAY	189	CF	\$	100.00	\$	18,900.00
121	PLACE POLYESTER CONCRETE OVERLAY [F]	1,335	SQFT	\$	18.00	\$	24,030.00
122	BRIDGE REMOVAL (PORTION)	1	LS	\$	75,000.00	\$	75,000.00
123	MISCELLANEOUS METAL (RESTRAINER- CABLE TYPE) [F]	562	LB	\$	25.00	\$	14,050.00
124	10" WELDED STEEL PIPE CASING (BRIDGE)	49	LF	\$	230.00	\$	11,270.00
125	18" WELDED STEEL PIPE CASING (BRIDGE)	54	LF	\$	250.00	\$	13,500.00
126	SLOPE PAVING (CONCRETE)	36	CY	\$	2,200.00	\$	79,200.00
127	MINOR CONCRETE (BRIDGE MEDIAN)	34	CY	\$	850.00	\$	28,900.00
128	MISCELLANEOUS METAL (BRIDGE) [F]	1,224	LB	\$	11.00	\$	13,464.00
129	BRIDGE DECK DRAINAGE SYSTEM [F]	1,677	LB	\$	16.00	\$	26,832.00
130	CHAIN LINK RAILING (TYPE 7) [F]	251	LF	\$	125.00	\$	31,375.00
131	CONCRETE BARRIER (TYPE 25A) [F]	21	LF	\$	375.00	\$	7,875.00
132	CONCRETE BARRIER (TYPE 842 R) [F]	234	LF	\$	225.00	\$	52,650.00
133	CONCRETE BARRIER (TYPE 832) [F]	252	LF	\$	160.00	\$	40,320.00
<b>STRUCTURE (EB ON-RAMP PUC)</b>							
134	STRUCTURE EXCAVATION (BRIDGE) [F]	76	CY	\$	100.00	\$	7,600.00
135	STRUCTURE BACKFILL (BRIDGE) [F]	49	CY	\$	110.00	\$	5,390.00
136	FURNISH PILING (CLASS 200) (ALT "W")	471	LF	\$	65.00	\$	30,615.00
137	DRIVE PILE (CLASS 200) (ALT "W")	10	EA	\$	2,725.00	\$	27,250.00
138	STRUCTURAL CONCRETE, BRIDGE [F]	52	CY	\$	950.00	\$	49,400.00
139	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) [F]	115	CY	\$	710.00	\$	81,650.00
140	BAR REINFORCING STEEL (BRIDGE) [F]	26,318	LB	\$	1.50	\$	39,477.00
141	SLOPE PAVING (CONCRETE)	18	CY	\$	2,100.00	\$	37,800.00
142	CALIFORNIA ST-70 BRIDGE RAIL [F]	144	LF	\$	575.00	\$	82,800.00
<b>STRUCTURE (EB ON-RAMP BIKE LOOP)</b>							
143	STRUCTURE EXCAVATION (BRIDGE) [F]	51	CY	\$	100.00	\$	5,100.00
144	STRUCTURE BACKFILL (BRIDGE) [F]	35	CY	\$	110.00	\$	3,850.00
145	FURNISH PILING (CLASS 200) (ALT "W")	185	LF	\$	65.00	\$	12,025.00
146	DRIVE PILE (CLASS 200) (ALT "W")	4	EA	\$	4,000.00	\$	16,000.00
147	STRUCTURAL CONCRETE, BRIDGE [F]	27	CY	\$	1,000.00	\$	27,000.00
148	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) [F]	48	CY	\$	850.00	\$	40,800.00
149	BAR REINFORCING STEEL (BRIDGE) [F]	12,785	LB	\$	1.50	\$	19,177.50
150	SLOPE PAVING (CONCRETE)	13	CY	\$	1,900.00	\$	24,700.00
151	METAL RAILING (54 INCH)	144	LF	\$	290.00	\$	41,760.00
<b>STRUCTURE (WB OFF-RAMP BIKE LOOP)</b>							
152	STRUCTURE EXCAVATION (BRIDGE) [F]	64	CY	\$	100.00	\$	6,400.00
153	STRUCTURE BACKFILL (BRIDGE) [F]	50	CY	\$	110.00	\$	5,500.00
154	FURNISH PILING (CLASS 200) (ALT "W")	236	LF	\$	65.00	\$	15,340.00
155	DRIVE PILE (CLASS 200) (ALT "W")	4	EA	\$	4,000.00	\$	16,000.00
156	STRUCTURAL CONCRETE, BRIDGE [F]	42	CY	\$	1,000.00	\$	42,000.00
157	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) [F]	48	CY	\$	850.00	\$	40,800.00
158	BAR REINFORCING STEEL (BRIDGE) [F]	15,861	LB	\$	1.50	\$	23,791.50
159	SLOPE PAVING (CONCRETE)	24	CY	\$	1,800.00	\$	43,200.00
160	METAL RAILING (54 INCH)	168	LF	\$	280.00	\$	47,040.00
<b>STRUCTURE (WB OFF-RAMP PUC)</b>							
161	STRUCTURE EXCAVATION (BRIDGE) [F]	113	CY	\$	100.00	\$	11,300.00
162	STRUCTURE BACKFILL (BRIDGE) [F]	74	CY	\$	125.00	\$	9,250.00
163	FURNISH PILING (CLASS 200) (ALT "W")	978	LF	\$	65.00	\$	63,570.00
164	DRIVE PILE (CLASS 200) (ALT "W")	16	EA	\$	2,850.00	\$	45,600.00
165	STRUCTURAL CONCRETE, BRIDGE [F]	92	CY	\$	900.00	\$	82,800.00
166	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) [F]	211	CY	\$	690.00	\$	145,590.00
167	BAR REINFORCING STEEL (BRIDGE) [F]	44,616	LB	\$	1.50	\$	66,924.00

168	SLOPE PAVING (CONCRETE)	27	CY	\$	1,900.00	\$	51,300.00
169	CALIFORNIA ST-70 BRIDGE RAIL [F]	152	LF	\$	610.00	\$	92,720.00
<b>TRAFFIC AND LIGHTING ITEMS</b>							
170	SIGNAL AND LIGHTING SYSTEM	1	LS	\$	620,000.00	\$	620,000.00
171	REMOVING EXISTING ELECTRICAL SYSTEM (SIGNAL AND LIGHTING SYSTEM)	1	LS	\$	40,000.00	\$	40,000.00
172	MODIFYING EXISTING ELECTRICAL SYSTEM (LIGHTING SYSTEM)	1	LS	\$	100,000.00	\$	100,000.00
173	LIGHTING SYSTEM	1	LS	\$	375,000.00	\$	375,000.00
174	LIGHTING (CITY STREET)	1	LS	\$	660,000.00	\$	660,000.00
175	RAMP METERING SYSTEM	1	LS	\$	130,000.00	\$	130,000.00
176	MODIFYING EXISTING ELECTRICAL SYSTEM (TRAFFIC MONITORING STATION SYSTEM)	1	LS	\$	110,000.00	\$	110,000.00
177	MODIFYING EXISTING ELECTRICAL SYSTEM (CHANGEABLE MESSAGE SIGN SYSTEM)	1	LS	\$	75,000.00	\$	75,000.00
178	CAMERA SYSTEMS	1	LS	\$	115,000.00	\$	115,000.00
179	MODIFYING EXISTING ELECTRICAL SYSTEM (ROADSIDE WEATHER INFORMATION SYSTEM)	1	LS	\$	35,000.00	\$	35,000.00
180	MODIFYING EXISTING ELECTRICAL SYSTEM (FIBER OPTIC SYSTEM)	1	LS	\$	260,000.00	\$	260,000.00
<b>WATER LINE ITEMS</b>							
181	12" DUCTILE IRON CEMENT-MORTAR LINED PIPE	1639	LF	\$	50.00	\$	81,950.00
182	RELOCATE FIRE HYDRANT	1	EA	\$	2,000.00	\$	2,000.00
183	REMOVE FIRE HYDRANT	1	EA	\$	1,000.00	\$	1,000.00
184	INSTALL FIRE HYDRANT ASSEMBLY	1	EA	\$	6,500.00	\$	6,500.00
185	MOBILIZATION	1	LS	\$	2,300,000.00	\$	2,300,000.00
<b>ADDITIONAL ITEMS</b>							
186	CONTRACTOR-SUPPLIED BIOLOGIST (LS)	1	LS	\$	20,000.00	\$	20,000.00
187	SETTLEMENT PLATFORM	50	EA	\$	1,400.00	\$	70,000.00
188	ROLLED EROSION CONTROL PRODUCT (NETTING)	107,724	SQFT	\$	0.75	\$	80,793.00
						BID TOTAL:	\$ 23,724,400.76