

Appendix J-1											
MREFPP Phase WC-1A Tierrecita Vallejo											
Phase WC-1A											
Phase WC-1B											
Bid Item	M&P Item	Spec Section			Included in Phase	Estimated Quantity	Bid Unit Price	Bid Price (Quantity x Bid Unit Price)	Estimated Quantity	Bid Unit Price	Bid Price (Quantity x Bid Unit Price)
1	1	01 71 23	Mobilization/Demobilization	LS	x	1	700,000.00	700,000.00	1	400,000.00	400,000.00
2	2	01 71 23	Supplemental Construction Surveying	LS	x	1	20,000.00	20,000.00	1	20,000.00	20,000.00
3	3	01 14 13	Pre-Condition Roadway Assessment	LS	x	1	5,000.00	5,000.00	1	5,000.00	5,000.00
4	4	01 14 13	Post-Condition Roadway Assessment	LS	x	1	5,000.00	5,000.00	1	5,000.00	5,000.00
5	87	01 32 36, 01 32 00	Video Monitoring and Documentation (Project-wide)	LS	x	1	10,000.00	10,000.00	1	10,000.00	10,000.00
6	87	01 32 36, 01 32 00	Video Monitoring and Documentation (Televised Gate well and Pipe at HWY83)	LS		0	0.00	0.00	0	5,000.00	0
7	5	01 43 00	Quality Control	LS	x	1	15,000.00	15,000.00	1	15,000.00	15,000.00
8	6	01 50 00	Temporary Staging Areas (For all phases)	LS	x	1	20,000.00	20,000.00	1	20,000.00	20,000.00
9	7	01 51 36	Control of Water and Dewatering	LS	x	1	50,000.00	50,000.00	1	50,000.00	50,000.00
10	8	01 55 26	Traffic and Pedestrian Safety Control Measures	LS	x	1	20,000.00	20,000.00	1	20,000.00	20,000.00
11			Traffic and Pedestrian Safety Control Measures Flagging at RR Crossing	LS	x	1	250,000.00	250,000.00			
11	9	01 57 13	Filter Sack	EA		5	0.00	0.00	0	2,000.00	0
12	10	01 50 00	Temporary Tree Protection Fencing	LF	x	1,000	1.00	1,000.00	0	1.00	0
13	11	01 50 00	Construction Fence (Orange)	LF	x	2,000	2.00	4,000.00	1,000	2.00	2,000.00
14	48	01 50 00	Erosion Control Log (Sediment Log Ditch Check)	LF		0	0.00	0.00	0	9.00	0
15	12	01 57 13	Rock Construction Entrance	EA	x	2	2,000.00	4,000.00	2	2,000.00	4,000.00
16	13	01 57 13	Temporary Erosion Control Blanket (All Types)	SY	x	5,000	4.00	20,000.00	5,000	4.00	20,000.00
17	14	01 57 13	Silt Fence (Regular)	LF	x	6,000	3.00	18,000.00	3,000	3.00	9,000.00
18	14	01 57 13	Silt Fence (Heavy Duty)	LF	x	500	5.00	2,500.00	500	5.00	2,500.00
19	15	01 57 13	Temporary Sedimentation Basin	CY	x	5,000	3.00	15,000.00	1,000	3.00	3,000.00
20	16	01 57 13	Inlet Protection (All Types)	EA	x	10	500.00	5,000.00	0	500.00	0
21	17	01 57 13	Temporary Rock Filter Dike	LF	x	100	75.00	7,500.00	20	75.00	1,500.00
22	18	01 57 13	Erosion Control Log (All Types)	LF	x	500	4.00	2,000.00	500	4.00	2,000.00
23	19	01 57 13	Concrete Washout	EA	x	1	2,500.00	2,500.00	0	2,500.00	0
24	20	01 57 13	Floating Silt Curtain	LF	x	550	20.00	11,000.00	1,500	20.00	30,000.00
25	21	01 57 13	Temporary Seeding	AC	x	7	1,800.00	12,600.00	3	1,800.00	5,400.00
26	22	01 57 13	Temporary Mulching (All Types)	AC	x	7	400.00	2,800.00	3	400.00	1,200.00
27	23	01 57 13	Temporary Hydromulching	AC	x	7	2,500.00	17,500.00	3	2,500.00	7,500.00
28	63	01 14 13	Aggregate Surface Course (Gravel Levee Access Ramp)	TON	x	250	45.00	11,250.00	250	45.00	11,250.00
29	24	01 14 13	Dust Control	LS	x	1	45,000.00	45,000.00	1	15,000.00	15,000.00
30	25	02 41 00	Sawcut All Pavement	LF	x	110	8.00	880.00		8.00	0
31	26	02 41 00	Remove Concrete Pavement	SY	x	24	12.00	288.00	0	12.00	0
32	27	02 41 00	Remove Bituminous Pavement	SY	x	3,340	10.00	33,400.00	1,000	10.00	10,000.00
33	28	02 41 00	Remove Fence (Chainlink)	LF	x	108	8.00	864.00	60	8.00	480.00
34	88	02 41 00	Property Hazardous Substance Abatement (Residence)	EA	x	1	5,000.00	5,000.00	0	5,000.00	0
35	29	02 41 00	Remove Structure (Residence, Foundation Only)	EA	x	1	7,000.00	7,000.00	0	15,000.00	0
36	29	02 41 00	Remove Structure (Shed)	EA	x	2	500.00	1,000.00	0	500.00	0
37	30	02 41 00	Remove Septic (Underground Tank and Drain Field)	EA	x	1	3,000.00	3,000.00	0	3,000.00	0
38	31	02 41 00	Remove Aggregate (Gravel)	SY	x	2,490	4.00	9,960.00	0	4.00	0
39	32	02 41 00	Remove & Plug Water Well	EA	x	1	1,500.00	1,500.00	0	1,500.00	0
40	98	02 41 00	Remove Sheet pile at Rock Riffle	SF		0	0.00	0.00	1,130	10.00	11,300.00
41	33	02 41 00	Remove Pipe (Water, All Sizes)	LF	x	160	20.00	3,200.00	0	20.00	0
42	33	02 41 00	Remove Pipe (Water Services)	LF	x	100	13.00	1,300.00	0	13.00	0
43	34	02 41 00	Remove and Salvage Landscaping Bricks	LS	x	1	500.00	500.00	0	500.00	0
44	35	02 41 00	Remove End Section (Flared End Section)	EA	x	3	300.00	900.00	4	300.00	1,200.00
45	36	02 41 00	Remove Manhole (Storm, Precast Concrete)	EA	x	2	2,000.00	4,000.00	0	2,000.00	0
46	37	02 41 00	Remove Gate Valve (All Sizes)	EA	x	2	800.00	1,600.00	0	800.00	0
47	38	02 41 00	Remove Irrigation Line (All Sizes)	LF	x	585	10.00	5,850.00	0	10.00	0
48	39	02 41 00	Remove Storm Pipe (All Sizes)	LF	x	464	30.00	13,920.00	240	30.00	7,200.00

49	40	02 41 00	Remove Railroad Monitoring Well, Complete	LS		0	0.00	0.00		4,000.00	0
50	41	02 41 00	Remove Storm Gatewell	LS	x	1	15,000.00	15,000.00	2	15,000.00	30,000
51	42	02 41 00	Remove and Salvage Fire Hydrant	EA	x	3	1,200.00	3,600.00	0	1,200.00	0
52	43	31 35 00	Salvage, Stockpile, Reinstall Riprap	BCY		0	0.00	0.00	160	50.00	8,000
53	31	02 41 00	Remove Aggregate (RipRap)	SY	x	2,718	15.00	40,770.00	0	15.00	0
54	44	03 30 00	Cast-in-Place Concrete (Reinforced Concrete Cradle)	CY	x	10	600.00	6,000.00		600.00	0
55	44	03 30 00	Cast-in-Place Concrete (Reinforced Concrete Collar at NAWIS Casing Pipe)	CY		0	0.00	0.00	5	600.00	3,000
56	45	31 10 00	Clearing and Grubbing (Light and Dense, all Types)	AC	x	17	5,000.00	85,000.00	13	5,000.00	65,000
57	46	31 20 00	Salvage and Stockpile Topsoil (4" avg)	ECY	x	8,250	8.00	66,000.00	8250	8.00	66,000
58	47	31 20 00	Topsoil (Salvaged 4" avg)	ECY	x	8,250	8.00	66,000.00	8250	8.00	66,000
59	48	31 20 00	Topsoil (Import)	ECY	x	5,740	20.00	114,800.00	2460	30.00	73,800
60	49	31 20 00	Soil Scarification (6")	SY	x	40,600	2.00	81,200.00	17400	2.00	34,800
61	50	31 20 00	Exploration Trench (All Types)	BCY	x	13,400	12.00	160,800.00	350	12.00	4,200
62	50	31 20 00	Exploration Trench (Allowance for found Utilities)	BCY	x	10,000	10.00	100,000.00	200	18.00	3,600
63	51	31 20 00	Haul and Dispose Excavated Material Off-Site	BCY	x	10,000	14.00	140,000.00	23000	14.00	322,000
64	52	31 20 00	Excavation (Remove Existing Levee)	BCY	x	7,800	8.00	62,400.00	7800	8.00	62,400
65	52	31 20 00	Excavation (Unclassified)	BCY	x	6,060	8.00	48,480.00	14140	8.00	113,120
66	53	31 20 00	Levee Fill (Exploration Trench Fill)	BCY	x	17,150	15.00	257,250.00	7350	15.00	110,250
67	53	31 20 00	Levee Fill	BCY	x	163,625	13.00	2,127,125.00	70125	15.00	1,051,875
68	54	31 20 00	Common Fill/Embankment	BCY	x	51,100	5.00	255,500.00	21900	5.00	109,500
69	52	31 20 00	Levee Closure Stockpile (RR Crossing Fill & Incidentals)	BCY	x	1,450	20.00	29,000.00	0	20.00	0
70	54	31 20 00	Import (Unclassified)	BCY	x	0	14.00	0.00	5000	14.00	70,000
71	55	31 35 00	Aggregate Bedding (Type B1 at Oxbow)	TON		0	0.00	0.00	160	50.00	8,000
72	56	31 35 00	Fine Filter Aggregate (Sand) (Gatewell)	ECY		0	0.00	0.00	80	15.00	1,200
73	57	31 35 00	Riprap (Type R20)	TON		0	0.00	0.00	190	65.00	12,350
74	58	31 35 00	Turf Reinforcement Mat (TRM)	SY		0	0.00	0.00	0	15.00	0
75	91	31 35 26	Seepage Relief Trench (Complete w/ 8" perforated HDPE, pipe, cleanouts, manholes, valves, haul and dispose of material)	LF	x	2,150	200.00	430,000.00	0	200.00	0
76	59	32 11 23	Haul Road Restoration	LS	x	1	20,000.00	20,000.00	1	10,000.00	10,000
77	100	32 12 16	Mill and Overlay (5th Ave SW and 41st St NW)	SY		0	0.00	0.00	0	15.00	0
78	60	32 11 23	Roadway Subgrade Preparation	SY	x	5,400	2.00	10,800.00	0	2.00	0
79	61	32 11 23	Geotextile Fabric (Roadway Type R-1)	SY	x	3,380	2.50	8,450.00	0	2.50	0
80	62	32 11 13	Aggregate Base Course (CL V)	TON	x	1,940	20.00	38,800.00	0	28.00	0
81	63	32 11 13	Aggregate Surface Course (CL V Gravel Roadway)	TON	x	2,580	80.00	206,400.00	0	80.00	0
82	64	32 12 16	Bituminous Pavement (Superpave FAA 41 w/ PG 58-28 Asphalt Cement)	TON	x	580	90.00	52,200.00	0	90.00	0
83	95	32 31 13	Fence (Decorative)	LF		0	0.00	0.00		160.00	0
84	65	32 92 00	Levee Turf Seeding	AC	x	9.5	3,500.00	33,250.00	3.9	3,500.00	13,650
85	66	32 92 00	High Performance Turf Seeding	AC	x	0.5	4,500.00	2,070.00	0	4,500.00	0
86	67	32 92 00	Prairie Seeding	AC	x	4.6	5,000.00	23,000.00	12.66	5,000.00	63,300
87	68	32 92 00	Wetland Seeding	AC		0	0.00	0.00	0.8	12,000.00	9,600
88	55	31 35 00	Aggregate Bedding (Type B1 at Oxbow Crossing and River Bank)	TON		0	0.00	0.00	158	50.00	7,900
89	55	31 35 00	Aggregate Bedding (Type B2)	TON	x	900	50.00	45,000.00	323	50.00	16,150
90	57	31 35 00	Riprap (Type R80 at River Bank)	TON	x	3,000	55.00	165,000.00	1200	65.00	78,000
91	94	32 92 00	Tree (1.5" B&B Deciduous)	EA	x	25	530.00	13,250.00	0	530.00	0

92	69	33 31 14	Casing Pipe (28", Augured and Jacked (Storm))	LF		0	0.00	0.00	50	500.00	25,000
93	69	33 31 14	Casing Pipe (42", Augured and Jacked (Storm))	LF		0	0.00	0.00	55	700.00	38,500
94	70	33 31 14	Expose & Inspect Casing Pipe (at NAWWS)	LS		0	0.00	0.00	1	25,000.00	25,000
95	71	33 31 14	Casing Fill Modification (Jet Sand/Fill Bentonite at NAWWS)	LS		0	0.00	0.00	1	90,000.00	90,000
96	72	31 23 19	Control of Water and Dewatering (Casing Pipe Modifications at NAWWS)	LS		0	0.00	0.00	1	10,000.00	10,000
97	73	33 31 14	Gate Valve, Box and Riser (6")	EA	x	2	2,000.00	4,000.00	0	2,000.00	0
98	73	33 31 14	Gate Valve, Box and Riser (24")	EA		0	0.00	0.00	0	30,000.00	0
99	74	33 31 14	DI Tee (8"x6")	EA	x	2	1,000.00	2,000.00	0	1,000.00	0
100	75	33 11 13	Pipe Insulation (Polystyrene, R-19)	SF	x	200	6.00	1,200.00	0	6.00	0
101	76	33 11 13	Water Main (6", PVC)	LF	x	27	50.00	1,350.00	0	50.00	0
102	77	33 11 13	Hydrant (5")	EA	x	2	4,500.00	9,000.00	0	4,500.00	0
103	78	33 11 13	Connect to Existing Water Main (8")	EA	x	2	3,000.00	6,000.00	0	3,000.00	0
104	78	33 11 13	Connect to Existing Water Main (24")	EA		0	0.00	0.00	0	15,000.00	0
105	80	33 41 13	Storm Catch Basin Structure (48" DIA Manhole Area Inlet, RCP)	EA	x	5	4,800.00	24,000.00	0	4,800.00	0
106	80	33 41 13	Storm Catch Basin Structure (60" DIA Manhole Area Inlet, RCP)	EA		0	0.00	0.00	0	6,200.00	0
107	80	33 41 13	Storm Catch Basin Structure (84" DIA Manhole Area Inlet, RCP)	EA	x	1	10,000.00	10,000.00	0	10,000.00	0
108	79	33 41 13	Storm Manhole (48" DIA, RCP)	EA	x	6	4,800.00	28,800.00	0	4,800.00	0
109	79	33 41 13	Storm Manhole (60" DIA, RCP)	EA		0	0.00	0.00	0	6,200.00	0
110	79	33 41 13	Storm Manhole (72" DIA, RCP)	EA		0	0.00	0.00	0	7,500.00	0
111	82	33 41 13	Storm Sewer End Section (18" FES, RCP)	EA	x	1	950.00	950.00	0	950.00	0
112	82	33 41 13	Storm Sewer End Section (30" FES, RCP)	EA		0	0.00	0.00	0	1,200.00	0
113	82	33 41 13	Storm Sewer End Section (36" FES, RCP)	EA	x	2	1,500.00	3,000.00	0	1,500.00	0
114	81	33 41 13	Storm Sewer (15", RCP)	LF		0	0.00	0.00	0	75.00	0
115	81	33 41 13	Storm Sewer (18", RCP)	LF	x	1,860	80.00	148,800.00	0	80.00	0
116	81	33 41 13	Storm Sewer (18", RCP Jack)	LF		0	0.00	0.00	0	350.00	0
117	81	34 41 13	Storm Sewer (30", RCP)	LF		0	0.00	0.00	0	120.00	0
118	81	33 41 13	Storm Sewer (36", RCP)	LF	x	236	160.00	37,760.00	0	160.00	0
119	81	34 41 13	Storm Sewer (18", PVC C-900)	LF		0	0.00	0.00	0	80.00	0
120	83	03 34 10	Controlled Low-Strength Material (CLSM)	CY	x	200	250.00	50,000.00	20	250.00	5,000
121	84	34 41 00	Signs (Traffic)	SF	x	10	500.00	5,000.00	0	500.00	0
122	85	32 33 00	Barrier (Vehicle)	EA		0	0.00	0.00	0	700.00	0
123	85	34 71 13	Barrier (Chain)	EA	x	5	2,050.00	10,250.00	0	2,050.00	0
124	96	35 20 16	Gatewell (Tierrequita Vallejo Gatewell)	LS	x	1	200,000.00	200,000.00	0	200,000.00	0
125	97	35 20 16	Gatewell Modification (Highway 83 Modifications)	LS	x	1	25,000.00	25,000.00	0	25,000.00	0
126	86	31 62 16	Steel Sheet Pile (Railroad Crossing)	SFF		0	0.00	0.00	3013	40.00	120,520
127	86	31 62 16	Steel Sheet Pile (Temporary Cofferdam, Parallel @ Oxbow Levee)	SFF		0	0.00	0.00	1800	50.00	90,000
128	93	31 62 16	Vinyl Sheet Pile (Moe Property)	SFF		0	0.00	0.00	39412	24.00	945,888
129	52	02 41 00	Excavation (Unclassified, Gatewell Preconsolidation Surcharge)	BCY	x	2,200	15.00	33,000.00	0	15.00	0
130	4	01 71 23	Mobilization/Demobilization (for Rock Riffle Structure)	LS		0	0.00	0.00	1	100,000.00	100,000
131	89	31 37 00	Remove Existing Rock Riffle Structure	LS		0	0.00	0.00	1	50,000.00	50,000
132	99	31 37 00	Channel Excavation at Rock Riffle Structure	BCY		0	0.00	0.00	2320	18.00	41,760
133	86	31 62 16	Steel Sheet Pile (at Rock Riffle Structure)	SFF		0	0.00	0.00	2200	35.00	77,000
134	7	31 23 19	Control of Water and Dewatering (Rock Riffle Structure)	LS		0	0.00	0.00	1	100,000.00	100,000
135	61	32 11 23	Geotextile Fabric (at Rock Riffle Structure)	SY		0	0.00	0.00	1350	3.00	4,050
136	90	31 37 00	Rock Riffle Structure (Engineered Fill, Channel)	TON		0	0.00	0.00	400	50.00	20,000
137	90	31 37 00	Rock Riffle Structure (Granular Filter - Channel and Bank)	TON		0	0.00	0.00	800	50.00	40,000
138	90	31 37 00	Rock Riffle Structure (Base Rock and Surface Riprap Type R140)	TON		0	0.00	0.00	2000	60.00	120,000
139	90	31 37 00	Rock Riffle Structure (River Bank Stabilization Riprap Type R80)	TON		0	0.00	0.00	700	60.00	42,000
140	90	31 37 00	Rock Riffle Structure (Chinking Rock, Upstream Riffle and Peninsula)	TON		0	0.00	0.00	110	80.00	8,800
141	90	31 37 00	Rock Riffle Structure (Cobbles)	TON		0	0.00	0.00	60	60.00	3,600
142	92	31 37 00	Boulders (3'-4' Nominal Diameter at Rock Riffle Structure)	EA		0	0.00	0.00	151	400.00	60,400

							Anticipated Accuracy Range Low	Point Estimate	Anticipated Accuracy Range High	Anticipated Accuracy Range Low	Point Estimate	Anticipated Accuracy Range High
							-10%			-10%		
			SUBTOTAL				6,010,260	6,678,067		4,608,669	5,120,743	
			CONTINGENCY (5%-10%)					333,903			512,074	
			SUBTOTAL - OPINION OF CONSTRUCTION COST				6,310,773	7,011,970	7,713,167	5,069,536	5,632,817	6,196,099
			LANDS & EASEMENTS (PER ESTIMATE)									
			LANDS & EASEMENTS (FEE TITLE ACQUISITION)									
			PLANNING, ENGINEERING & DESIGN (PED) (12%)									
			CONSTRUCTION MANAGEMENT (CM) (7%)									
			TOTAL OPINION OF COST				6,310,773	7,011,970	7,713,167	5,069,536	5,632,817	6,196,099