

COUNCIL AGENDA: AUGUST 3, 2010

SUBJECT: AUTHORIZATION TO ADVERTISE FOR BIDS – MARTIN HILL & ROCKY HILL WATER RESERVOIRS PROJECT

SOURCE: Public Works Department - Engineering Division

COMMENT: Plans and Project Manual have been prepared for the Martin Hill & Rocky Hill Water Reservoirs Project. These documents are available for Council's review in the La Barca Conference Room. The Martin Hill Water Reservoir consists of the construction of a 3.0-million-gallon reservoir, 2,800-gpm booster pumping station, approximately 1.25 miles of 16-inch water main, and appurtenant facilities. The Rocky Hill Water Reservoir consists of the construction of a 0.55-million-gallon reservoir, modifications to the existing Granite Hills booster pumping station, approximately 0.5 miles of 16-inch water main, and appurtenant facilities.

The estimated probable cost for the project is a combined total of \$4,471,826.00 (\$3,359,371.00 for Martin Hill, \$1,112,455.00 for Rocky Hill) with \$447,182.60 (\$335,937.10 for Martin Hill, \$111,245.50 for Rocky Hill) required for the construction contingency (10%). Construction management, quality control and inspection will be handled through a separate contract with Dee Jaspar & Associates, Inc. City staff time is estimated to be ¼ percent (\$11,100) due to the assistance by the stated firm. The total combined estimated cost for the project is \$4,930,188.60. Estimates of Probable Cost are attached for Council's review.

The two California Infrastructure and Economic Development Bank (CIEDB) loans are the funding sources for the project as approved in the 2009/2010 Annual Budget and as proposed in the 2010/2011 Annual Budget.

RECOMMENDATION: That the City Council:

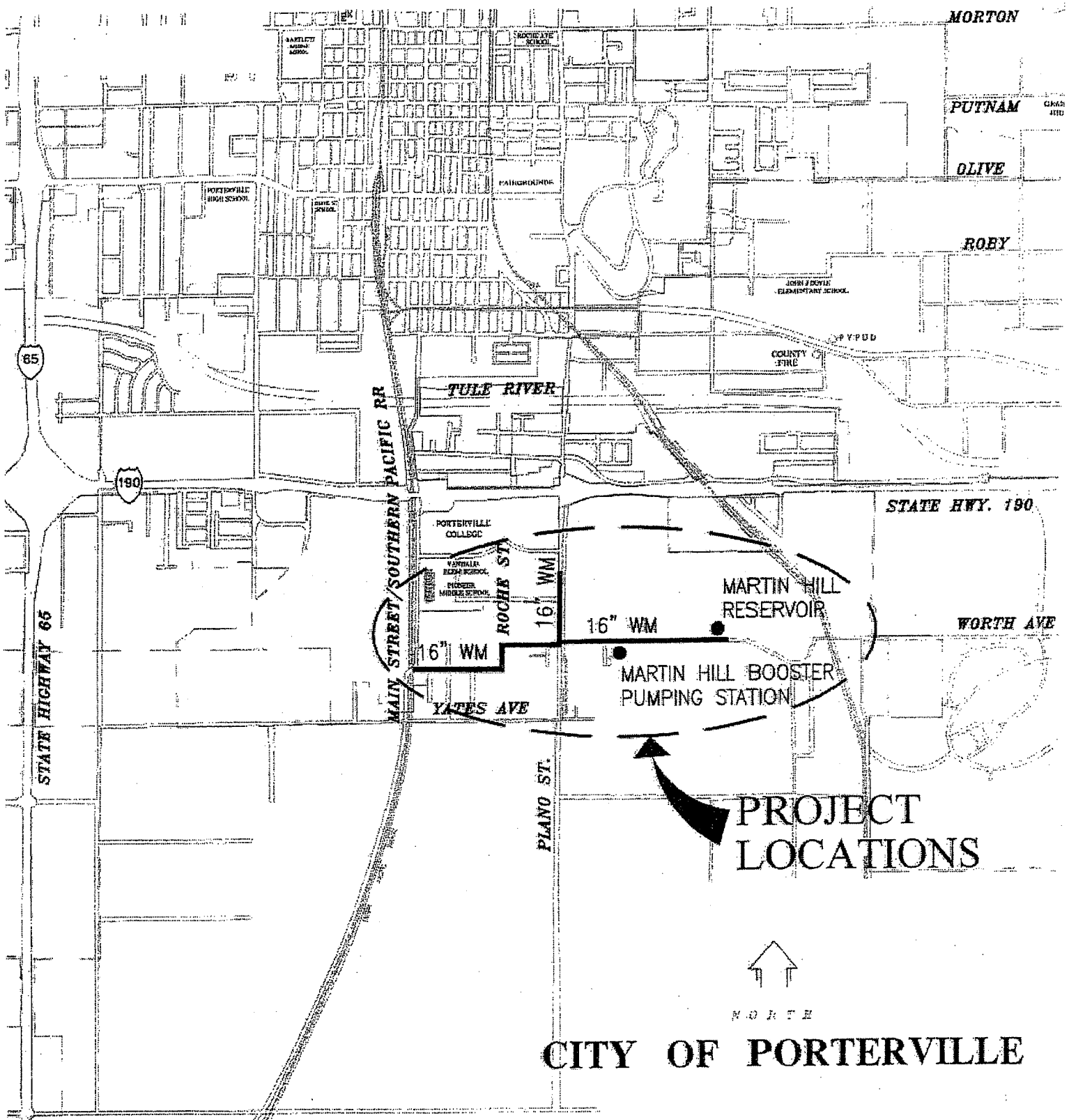
1. Approve the expenditure of funds proposed in the 2010/2011 Annual Budget for the Rocky Hill Reservoir Project;
2. Approve staff's recommended Plans and Project Manual; and
3. Authorize staff to advertise for bids for the Martin Hill & Rocky Hill Water Reservoirs Project.

ATTACHMENTS: Locator Maps
Estimates of Probable Cost

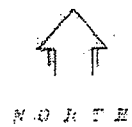
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Item No. 2



PROJECT LOCATIONS

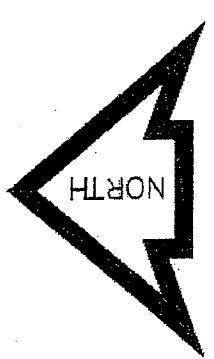
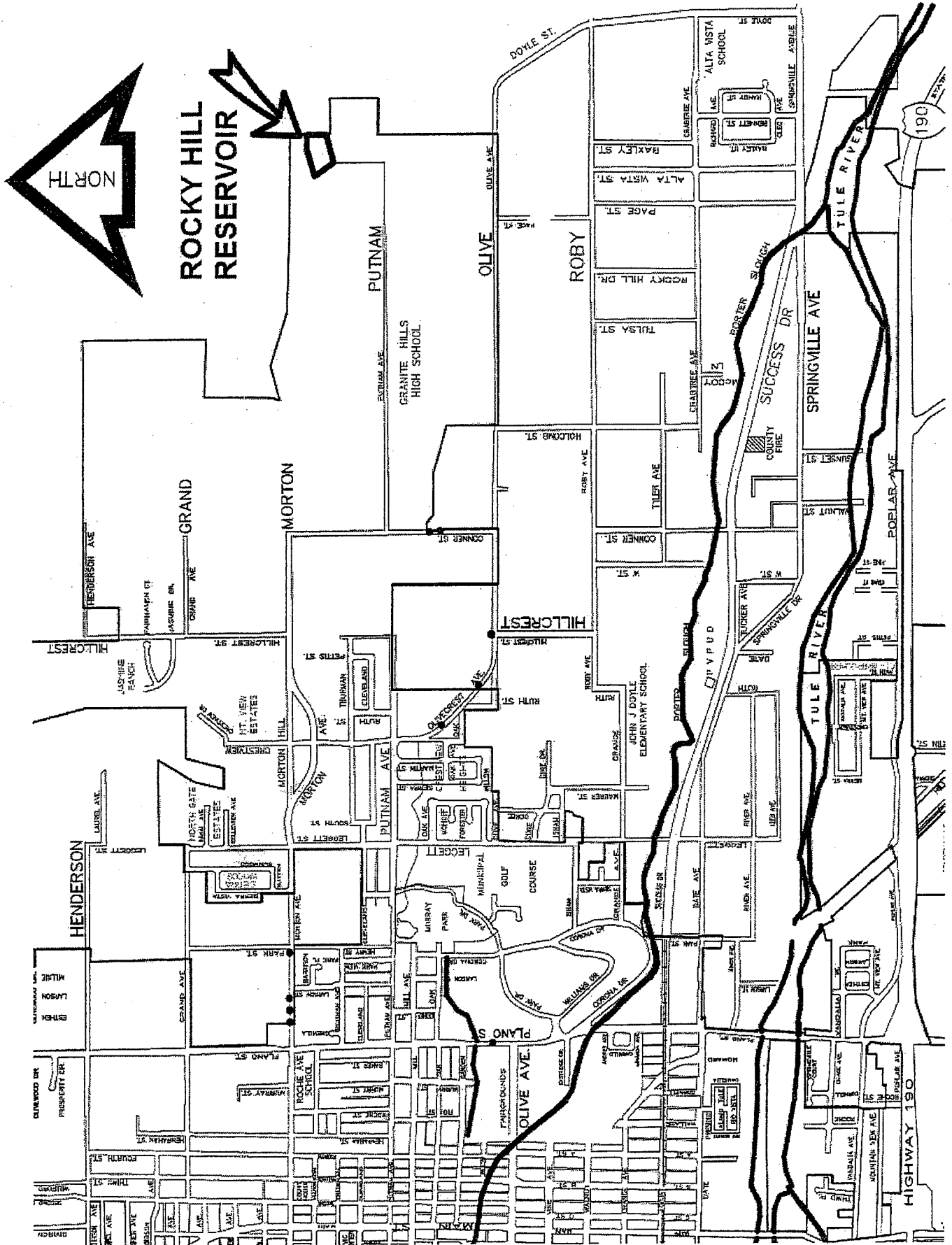


CITY OF PORTERVILLE

LOCATION MAP
NOT TO SCALE

VICINITY MAP

N.T.S.



ROCKY HILL
RESERVOIR

HIGHWAY 190

AECOM
 1360 E. Spruce Avenue, Suite 101, Fresno, CA 93720
 T 559.448.8222 F 559.448.8233 www.aecom.com

1/15/2010

City of Porterville
 Martin Hill Reservoir Water System Improvements
 Project No. 89-9742
 Final Engineer's Construction Cost Estimate

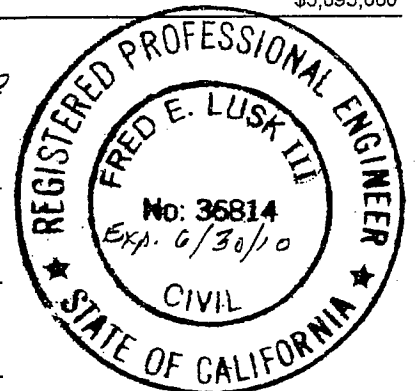
Item	Item Description	Quantity	Unit	Unit Price	Amount
1.	Mobilization and Demobilization (\$100,000 maximum)	1 Job	LS	\$100,000	\$100,000
2.	Sheeting, Shoring, & Bracing	1 Job	LS	\$10,000	\$10,000
3.	Traffic Regulation	1 Job	LS	\$8,000	\$8,000
4.	Notice of Intent to Discharge (NOID), Storm Water Pollution Prevention Plan (SWPPP), and Monitoring Plan (MP)	1 Job	LS	\$5,000	\$5,000
5.	Erosion Control	1 Job	LS	\$6,000	\$6,000
6.	Construction Surveying and Staking	1 Job	LS	\$25,000	\$25,000
7.	O&M Manuals (\$5,000 minimum)	1 Job	LS	\$5,000	\$5,000
8.	Record Drawings (\$5,000 minimum)	1 Job	LS	\$5,000	\$5,000
9.	Clearing, Stripping, & Grubbing	1 Job	LS	\$6,000	\$6,000
10.	Earthwork	1 Job	LS	\$48,000	\$48,000
11.	Pumping Station Site Yard Piping and Appurtenances	1 Job	LS	\$140,000	\$140,000
12.	Horizontal Split-Case Centrifugal Pumps and Motors	2	Ea	\$40,000	\$80,000
13.	Miscellaneous Work at Pumping Station Site	1 Job	LS	\$7,500	\$7,500
14.	Tank Ringwall Foundation	56	CY	\$1,500	\$84,000
15.	Aggregate Base for Tank Base	880	Tn	\$30	\$26,400
16.	Oil-sand Blanket for Tank Base	228	Tn	\$60	\$13,680
17.	3-Million-Gallon Welded Steel Water Tank and Appurtenances	1 Job	LS	\$1,850,000	\$1,850,000
18.	Miscellaneous Work at Tank Site	1 Job	LS	\$35,000	\$35,000
19.	Aggregate Base Course and Aggregate Base Surfacing	530	Tn	\$30	\$15,900
20.	Asphalt Concrete Paving	45	Tn	\$90	\$4,050
21.	Concrete Curbing	245	LF	\$16	\$3,920
22.	Chain Link Fence	935	LF	\$24	\$22,440
23.	Sliding and Swing Gates	1 Job	LS	\$6,000	\$6,000
24.	Irrigation	1 Job	LS	\$10,000	\$10,000
25.	Landscaping	1 Job	LS	\$30,000	\$30,000
26.	Electrical Work	1 Job	LS	\$190,000	\$190,000
27.	Instrumentation Work	1 Job	LS	\$70,000	\$70,000
28.	16-inch-diameter Pipeline	6,651	LF	\$48	\$319,259
29.	16-inch-diameter Butterfly Valves	10	Ea	\$6,000	\$60,000
30.	Connections to Existing Water Mains	1 Job	LS	\$8,000	\$8,000
31.	8-inch-diameter Branch Stubs with Gate Valves	5	Ea	\$2,000	\$10,000
32.	Blowoff Assemblies	1	Ea	\$3,000	\$3,000
33.	2-inch Combination Air Valve Assemblies	3	Ea	\$3,000	\$9,000
34.	3-inch Combination Air Valve Assemblies	1	Ea	\$3,500	\$3,500
35.	Pipeline and Equipment Disinfection	1 Job	LS	\$20,000	\$20,000
36.	Asphalt Pavement Resurfacing Along Pipeline Trench	6,651	LF	\$18	\$119,722
Subtotal					\$3,359,371
Contingency (10%±)					\$335,629
Total Estimated Construction Cost (to nearest \$1,000)					\$3,695,000

Fred E. Lusk III Jan. 19, 2010
 Prepared by: Fred E. Lusk III, AECOM Date

Michael K. Reed 7/27/2010
 Reviewed by: Michael K. Reed, City Engineer Date

B. Rodriguez 7/27/10
 Reviewed by: Baldomero S. Rodriguez, Public Works Director Date

J. Lollis 07/29/10
 Reviewed by: John Lollis, City Manager Date



AECOM Water

FINAL ENGINEER'S ESTIMATE

Rocky Hill Pressure Zone 1 Project

City of Porterville

June 2010

By: Roberts Engineering

Item No.	Quantity	Unit	Description	Unit Price	Extension Price
1	1	L. S.	Mobilization and Demobilization	\$10,000.00	\$10,000.00
2	1	L. S.	Excavation and Compacted Embankment for Water Tank site, other than for water and overflow buried pipelines and fittings	\$40,000.00	\$40,000.00
3	1	L. S.	Complete Water tank, including foundation , overflow piping, discharge piping, valves and appurtenances	\$550,000.00	\$550,000.00
4	1	L. S.	Modification of Booster Pumps by PACO Pumps, including Variable Frequency Drive and all pump work and fittings	\$38,000.00	\$38,000.00
5	1	L. S.	All Electrical Power System, including all wiring, lighting, and electrical service at tank site and connection of the booster pumps.	\$32,500.00	\$32,500.00
6	1	L. S.	All Control System, including radios, antennas, programmable logic controllers, wiring, mounting brackets, poles, and buried conduits including trenching and compacted backfill and including all integration with the existing City of Porterville's control system and all training as set forth in the specifications.	\$40,000.00	\$40,000.00
7	2,575	L.F.	16 inch AWWA C905 piping including all trenching and compacted backfill.	\$65.00	\$167,375.00
8	1	EA.	16 inch 11.25 degree AWWA C110 bend, including concrete thrust block or mechanical joint restraint system, trenching and compacted backfill	\$500.00	\$500.00
9	7	EA.	16 inch 22.5 degree AWWA C110 bend, including concrete thrust block or mechanical joint restraint system, trenching and compacted backfill.	\$600.00	\$4,200.00
10	1	EA.	16 inch adjustable 0 to 20 degree AWWA C110 bend, including concrete thrust block or mechanical joint restraint system, trenching and compacted backfill.	\$900.00	\$900.00

11	2	EA.	16 inch 45 degree AWWA C110 bend, including concrete thrust block or mechanical joint restraint system, trenching and compacted backfill.	\$600.00	\$1,200.00
12	1	L.S.	16 inch X 12 inch X 16 inch AWWA C110 Tee, including flanged adaptor on 12 inch outlet, concrete thrust block or mechanical joint restraint system, trenching and compacted backfill.	\$900.00	\$900.00
13	1	L.S.	Connection of 16-inch water transmission line to existing 10-inch water line, including 10-inch gate valve with flanged adaptor, 10-inch to 16-inch increaser, and removal of existing blow-off, all trenching and compacted backfill	\$4,000.00	\$4,000.00
14	1	L.S.	12 inch AWWA C509 Flanged Gate Valve, including complete installation, concrete thrust block or mechanical joint restraint system, trenching and compacted backfill	\$2,000.00	\$2,000.00
15	1	L.S.	12 inch AWWA Class D Blind Flange including installation	\$150.00	\$150.00
16	2,550	L.F.	8 inch Pressure Rated Rubber Gasket SDR 26 Piping, including all trenching and compacted backfill.	\$35.00	\$89,250.00
17	1	EA.	8 inch 11.25 degree AWWA C110 bend, including concrete thrust block or mechanical joint restraint system, trenching and compacted backfill	\$300.00	\$300.00
18	8	EA.	8 inch 22.5 degree AWWA C110 bend, including concrete thrust block or mechanical joint restraint system, trenching and compacted backfill.	\$300.00	\$2,400.00
19	1	EA.	8 inch adjustable 0 to 20 degree AWWA C110 bend, including concrete thrust block or mechanical joint restraint system, trenching and compacted backfill.	\$400.00	\$400.00
20	2	EA.	8 inch 45 degree AWWA C110 bend, including concrete thrust block or mechanical joint restraint system, trenching and compacted backfill.	\$400.00	\$800.00
21	1	EA.	Pressure Manhole Assembly as shown on plans	\$4,000.00	\$4,000.00

22	1	L.S.	Provide 2-inch Air Release and Vacuum Valve (CAV) on 16-inch water transmission line and 2-inch vent on 8-inch IPS Class 125 pipe, as shown on the plans	\$3,500.00	\$3,500.00
23	1,110	LF.	Chain Link Fencing, including all labor, material, equipment, and installation	\$18.00	\$19,980.00
24	2	EA.	16-foot swing type Chain Link Gates	\$300.00	\$600.00
25	50	LF.	Trench Resurfacing, including all saw cutting, paving and compacted base	\$20.00	\$1,000.00
26	1	L.S.	Access road grading, including all labor, equipment, and compaction as shown on the plans	\$3,500.00	\$3,500.00
27	925	Tons	Furnish and Install 4-inch thick Class 2 Aggregate Base Road Surfacing for access road and around tank perimeter, including all grading, labor, equipment, material and compaction	\$18.00	\$16,650.00
28	1	L.S.	Landscaping including Irrigation System	\$35,000.00	\$35,000.00
29	1	L.S.	Sheeting and Shoring	\$5,000.00	\$5,000.00
30	1	L.S.	Traffic Control	\$1,000.00	\$1,000.00
31	1	L.S.	Section Monument Restoration	\$1,000.00	\$1,000.00
32	1	L.S.	Asbestos Dust Mitigation, including compliance with approved conditions and all State Regulations per the Asbestos Dust Mitigation Plan	\$35,000.00	\$35,000.00
33	1	L.S.	Provide San Joaquin Valley Unified Air Pollution Control District approved construction dust control plan, including filing and maintaining of appropriate paperwork as required	\$1,250.00	\$1,250.00
34	1	EA.	All items not including in items 1 through 24 above necessary to make this a complete and operable system in accordance with the Plans and Specifications	\$100.00	\$100.00

	Subtotal	\$1,112,455.00
	Contingency	\$111,245.50
	Total Estimated Construction Cost (to nearest \$1,000)	\$1,224,000.00

Charles W. Roberts / ss July 26, 2010
 Prepared by: Charles W. Roberts Date

Michael K. Reed 7-27-2010
 Reviewed By: Michael K. Reed, City Engineer Date

Michael K. Reed 7-28-2010
 Reviewed By: Baldomero S. Rodriguez, Public Works Director Date

J. L. Lolis 07/28/10
 Reviewed By: John Lolis, City Manager Date