

**Colorado Water Conservation Board
Water Supply Reserve Account – Basin Funds
Application of La Plata County Palo Verde Public Improvement District #3**

Statement of Work – July 16 2014

Water Activity Name: La Plata County Palo Verde Public Improvement District #3 Water Delivery Project

Grant Recipient: La Plata County Palo Verde Public Improvement District #3

Funding Source:

This project seeks \$25,000 in funding from the Colorado Water Conservation Board Basin Account. The project has already been awarded a \$50,000 grant from the Southwestern Water Conservation District. The balance of the project costs will be paid through a loan from the Colorado Water Resources and Power Development Authority Drinking Water Revolving Loan Fund.

Introduction and Background:

The Palo Verde Water Delivery Project (the “Project”) will be constructed by the La Plata County Palo Verde Public Improvement District #3 (the “District”). The District consists of the Palo Verde subdivision, which is located on the eastern boundary of the City of Durango, approximately ¼ mile north of U.S. Highway 160 in the Grandview area. The Project will be constructed to deliver treated water from Durango’s municipal water system to the Palo Verde subdivision. It is notable that this project has been advanced through the initiative of the property owners themselves and will benefit approximately 50 people who live in the subdivision. Water will be provided by the City of Durango and each property will be individually metered. The City of Durango will also maintain the water lines that will be built by the District. The project is included on the 2014 Drinking Water Revolving Loan Fund Eligibility List. Goff Engineering has completed the engineering work and construction plans and specifications have been prepared.

Two last minute agreements with the adjacent property owners resulted in a revision to the project scope, and significant cost savings for the District. The savings resulting from those partnerships combined with competitive bids resulted in a reduced project cost.

- The Three Springs development located on the west side of Palo Verde has agreed to extend an 8” water main, at their cost, from the City’s 12” water main located in the Wilson Gulch Drive right-of-way, east to the west Oso Grande right-of-way and has committed doing so by October 1, 2014, reducing work that previously would have been completed by Palo Verde.
- The Oaks development located on the east side of Palo Verde has agreed to pay to replace a proposed 2” service line with an 8” water main to the east side of Palo Verde that will help provide the future Oaks development with a water system loop, insuring adequate pressure for the Oaks as well as system redundancy. This will benefit the District as the Oaks will pay the entire cost of the 8” water main, eliminating a proposed 1,140 lineal feet of a 2” service line and will allow the water meters to three lots being placed much closer to the actual dwellings, reducing the cost of their individual service line. The Oaks has agreed to pay the District \$46,483 for the 865 feet of the 8” water

main plus a 10% contingency to cover possible change order costs associated with this main. Residual funds will be returned to the Oaks upon completion. These costs are identified in the Alternate Bid less the deduct of \$17,100 for the 2' service line it replaces.

Objectives:

The objective of the project is the construction of 4,243 linear feet of 8-inch water main to serve up to 17 lots within the Palo Verde subdivision, including the installation of individual water meters, fire hydrants and payment of plant investment fees.

Tasks:

Task 1 – Construction of water line and installation of meters and fire hydrants.

Description of Task: The construction of 4,243 linear feet of 8-inch water main, and the installation of individual meters and fire hydrants.

Method/Procedure: The water main will be installed underground in the Oso Grande Drive right of way and a 30 access and utility easement and individual meters will be installed adjacent to each of the 17 properties to be served. Five fire hydrants will also be installed.

Deliverable: Operational water line, meters and fire hydrants.

Reporting and Final Deliverable: We expect that the project will be completed in three months from anticipated start date by August 31, 2014; therefore, we expect to provide one combined progress and final deliverable report in December, 2014.

Budget:

La Plata County Palo Verde Public Improvement District #3					
July 16 2014 - Revised Project Estimate					
Engineering and Design Services					
	Goff Engineering & Surveying-plan engineering	1	LS	\$5,000	\$5,000
Canyon Construction Bid Summary Cost					
ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL
1	8" PVC - C900 – AWWA C900 (in place, incl. trench, 3/8" washed pea bedding & screened backfill, tracer wire, warning tape)	3,378	LF	\$24	\$81,072
2	Standard Fire Hydrant Assembly (w/ 6" line from main, 8" by 6" Tee, Thrust Blocks, washed gravel, Gate Valve, and Valve Box)	5	EA	\$5,825	\$29,125
3	Flush-Blow-Off Hydrant 2" (w/ tap) Corporation Stop, Curb Stop Valve & Vault	1	EA	\$6,000	\$6,000
4	2" HDPE – Waterline Service – 200 PSI Rating – Lot 12 Complete inc. bedding, elbows, reducer/connection to 3/4" copper service at Meter Pit and temp. end cap & stake.	1,140	LF	\$15	\$17,100

5	1.5" PEX – Waterline Service – 200 PSI Rating – Lot 17 Complete inc. bedding, elbows, reducer/connection to ¾" copper service at Meter Pit and temp. end cap & stake.	520	LF	\$20	\$10,400
6	deleted				\$0
7	Residential Meter Assembly (inc. Corp Stop, Curb Stop valve and box, Meter Pit – Durango Utility Std.) The District will the Plant Investment Fees (PIF) which includes the meter only	17	EA	\$1,233	\$20,961
8	¾" - Type K Cooper Tubing meter service, from Corp Stop to Meter Pit, Per ASTM B-88 and B-251	460	LF	\$17	\$7,590
9	8" MJ End Caps/, complete incl. thrust block	2	EA	\$440	\$880
10	8" Restrained Blind Flange with thrust block	1	EA	\$380	\$380
11	Disinfection & pressure test – new 8" C900 Water Main & 2" and 1.5" Service lines, and exist. 8" DIP within Vista Norte St	1	LS	\$3,200	\$3,200
12	Meg-a-lug Fitting Connectors (incl. thrust blocking)	16	EA	\$89	\$1,424
13	8" DI – MJ Cross Fitting (incl. thrust blocking)	1	EA	\$800	\$800
14	8" DI Bend Fittings (incl. thrust blocking)	4	EA	\$350	\$1,400
15	8" MJ Gate Valve Installation (incl. riser, box, collar, conc. saddle) AWWA C-500 or 509	7	EA	\$1,717	\$12,019
16	deleted				\$0
17	CL 6 ABC (road base replacement to 6" compact)	400	TON	\$23	\$9,200
18	Export & Disposal (excess earthen material @ bedding)	600	CY	\$7	\$4,200
19	Minor re-Grading and Erosion Control w/ reseeding	1	LS	\$9,825	\$9,825
20	deleted				\$0
21	Traffic Control per MUTCD	1	LS	\$4,140	\$4,140
22	Construction Staking	1	LS	\$5,265	\$5,265
23	Material / Compaction Testing per COD Standards	1	LS	\$5,175	\$5,175
24	Mobilization inc. Bonding & Insurance	1	LS	\$45,970	\$45,970
Base Bid Subtotal					\$276,126
Canyon Construction Alternate Bid					
A1	[Deduct] 2" HDPE – Waterline Service – 200 PSI Rating – Lot 12 Complete inc. bedding, elbows, reducer/connection to ¾" copper service at Meter Pit and temp. end cap & stake.	1,140	LF	-\$15	-\$17,100

A2	[Add] 8" PVC - C900 – AWWA C900 (in place, incl. trench, 3/8" washed pea bedding & screened backfill, tracer wire, warning tape)	865	LF	\$30	\$25,950
A3	[Add] 8" Restrained Blind Flange with thrust block	1	EA	\$382	\$382
A4	[Add] 8" MJ Gate Valve Installation (incl. riser, box, collar, conc. saddle) AWWA C-500 or 509	2	EA	\$1,660	\$3,320
A5	[Add] 8" DI Bend Fittings (incl. thrust blocking)	3	EA	\$575	\$1,725
A6.1	deleted				\$0
A6.2	[Add] Air Vacuum Valve	1	EA	\$8,600	\$8,600
A7	[Add] Additional CL 6 road base & export - disposal	1	LS	\$3,700	\$3,700
A8	[Add] Mobilization inc. Bonding & Insurance - increase	1	LS	\$2,806	\$2,806
Alternate Bid					\$29,383
10% Construction Contingency					\$30,551
Construction Total* Base Bid plus Alternate and contingency					\$336,060
* Construction cost based on actual construction bid from Canyon Construction – June 25, 2014					
CWCB Water Supply Reserve Account – Basin Funds (applied to construction cost)					(\$25,000)
Adjusted Construction Total less CWCB Water Supply Reserve Account – Basin Funds					\$311,060
Construction Management & Inspection - In-Kind Contribution - La Plata County					
ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL
1	Construction Man. - Dir. Of Public Works	24	HR	\$62	\$1,488
2	Construction Man. - Project Engineer	40	HR	\$50	\$2,000
3	Construction Insp. - Dir. Of Public Works	16	HR	\$62	\$992
4	Construction Insp. - Project Engineer	40	HR	\$50	\$2,000
5	Construction Insp. - Engineering Inspector	260	HR	\$36	\$9,360
Construction Management & Inspection Total					\$15,840
Miscellaneous					
	City of Durango Plant Investment Fee Single Unit Dwelling - Fee assumes 3/4" meter	17	EA	\$5,582	\$94,894
	Bond counsel opinion and related legal fees	1	EA	\$20,000	\$20,000
	Environmental Assessment	1	EA	\$3,000	\$3,000
Total Project Cost - less CWCB Grant					\$449,794

Project Timeline

- Solicitation for construction bids – July 25 2014, COMPLETE
- Award bid – early August 2014 - IN PROCESS
- Construction Start, Notice to proceed – August 31, 2014
- Project completion – November 30, 2014
- CWCB Combined progress and final deliverable report - December 2014.