

22 Rd (H.5 to I.6) Waterline Improvement Project Description:

- Approx 2,650 LF of 12-inch DR18 C900 and domestic di fittings starting near the existing fire hydrant north of GVP and extending through the I Rd intersection; approx. 3,065 LF of 8-inch DR18 C900 and domestic di fittings within the I Rd intersection and extending north to the ex. 8-inch near Stockard drain (I.6).
- In I Rd intersection: planning to reconnect the ex E & W waterlines (EB lanes); install (2) 12-inch GVs, 12-inch FL tee, 12-inch FLxFL DI spool; 12x8 FLxMJ tee (or approved combination); 8-inch C900; (2) 8-inch GVs; 8-inch FL tee; and hydrant near the NE corner. The 12- & 8-inch stubs (for future) get permanent BOs and all QA/QC.
- Two 2-inch domestic waterline re-connections to the proposed 12-inch will be planned outage after QA/QC of 12-inch mainline with mechanical disinfection (swabbing) and flushing.
- Water services will be connected to these mains (Bid Item 6a-6e). The District has a note regarding the appropriate pipe service saddle (brass top with stainless bands). Of the 23 service reconnections as described, approximately one-half are on the 12-inch; 6 services are far side road crossings to the 8-inch north of I Rd. The District shows those as bored/trenchless. Surface restoration related to Bid Item 6 should be included there as indicated.
- 4 new fire hydrant assemblies are proposed: (1) on the 12-inch & (3) on the 8-inch main. Those are shown as Bid Item 8 with a qty of 4 ea includes: trench excavation, backfill, surface restoration, hydrant assy.
- The majority of surface restoration is Class C gravel road shoulder; asphalt surface restoration through I Rd and asphalt drives as shown on dwgs and described in bid schedule.
- Similarly, with the majority of construction occurring along the road shoulder, the District will allow excavated native to be moisture-conditioned as necessary and compacted in lifts meeting the specification requirements. Otherwise, under asphalt road surfaces, Class E pit run import should be placed/compacted in trench zone. All pipe zone material for this project will be Class B or C. Select aggregate base course compacted 12-inch thick under asphalt and 6-inch thick on shoulder (Bid Item 2a-2b).
- Bid Item 3 – Engineering-Directed Material to be used only as directed by Engineer for various purposes, but generally to address/improve unsuitable subgrade and provide foundation stabilization. The District is not performing this work even though the unit prices have been filled into the bid schedule; rather, this is the unit price the District will pay for base, pit run, and rock. These unit prices are above the average observed from previous bids. It's acceptable to the District and more than reasonable for the Contractor. We have tried leaving this bid item out and negotiate pricing which hasn't always worked well; we have tried

making the qty small so the extended price has little effect on the total bid amount, but that isn't cost effective for the District either.

- Base mapping was provided by the County's Engineer doing 22 Rd with locate verification for proofing. North of I Rd, there will be periodic conflicts with phone for construction of the 8-inch. The District chose the best corridor based on future Co improvements and phone will need to be stripped out and relayed as necessary.
- The County performed some subsurface investigation in 22 Rd north of I Rd to classify geotechnical conditions. They have agreed to allow this to be informational only – we have/will make this available from our website where other Contract Documents can be downloaded after you are a planholder. Essentially, you get an opinion of the subgrade material and the depth of groundwater which is generally below our TO pipe.
- All equipment, labor and materials required by the contractor to manage/mitigate groundwater conditions during all phases of construction shall be considered incidental to the work. Any necessary discharge permitting is the responsibility of the contractor to obtain and maintain.
- Note 17 Sht 3 describes the District's opinion of construction sequence which is generally described as constructing mainline South to North; performing successful QA/QC; re-connecting existing mains and services; abandonment of existing facilities; site restoration and etc.
- The District discussed the traffic control requirements with the County just prior to the meeting. The likelihood of a road closure on 22 Rd south of I was slight to begin with, but with the current closure of 22 Rd J-K plan on flaggers. The 22/I intersection will require a temporary road closure with advance message board sign. The District will include a traffic control adder for flagger days to the bid schedule.
- The Contractor should bid every item on the schedule of values.

Project Milestones:

- Bid Date: May 7, 2020 at 2pm
- Notice-of-Award within a week, Notice-to-Proceed once Contract, Insurance, Performance & Payment Bonds rec'd
- Anticipated Construction Start is late May/early June.
- Substantial Completion: July 31, 2020
- Final Completion: August 14, 2020

Construction Staking

- Owner may provide construction staking as needed; ie fittings, grade critical locations, and other areas as necessary. The District can stake the limits of asphalt removal.

- Contractor must provide necessary QC Surveying to assure construction within tolerances described in the Contract Documents.

Easements

- N/A all of the Project is within the MC ROWs

Access Roads & Staging Area

- Staging Areas will be the Contractor's responsibility.

Project Water

- Ute Water will have project water available at no charge to the Contractor for loading the mainline, soil moisture-conditioning, dust control, and road maintenance as necessary using one of the existing appurtenances on our water system adjacent to the work area as approved by the District.
- The Contractor must provide labor and equipment necessary to use the water. The water truck must have an approved backflow prevention device.
- Water for flushing the main will be available. We would assume connect both ends with necessary means of loading & evacuating air; flush both directions to an opposite side fire hydrant and the blow offs.

Project Permits

- Owner will obtain the necessary MC and GJ City ROW Utility permits. Please submit your traffic control plan ASAP.

Subsurface Conditions

- Base mapping with utilities and subsurface investigation provided by Mesa Co

Traffic Control

- Lori Seeley (MC)

QA/QC

- The Contractor shall chlorinate the main line and appurtenances as necessary to obtain a minimum chlorine residual in accordance with the Contract Documents.
- Owner will provide bacteriological laboratory sampling of the water from the main after flushing. If the presence of a bacterial indicator exists, additional chlorination or flushing could be required at no expense to the Owner.
- After successful bacteriological testing, the Contractor shall perform a field hydrostatic pressure test of the system for 4 hours within the allowable leakage described in the Contract Documents at the low point.
- Owner will hire a qualified materials testing firm to provide: laboratory and field testing of backfill material including soils, concrete, asphalt, and etc.

Submittals

- Owner will review submittals and provide comments in a timely manner.

Addendum Items

- Addendum No.1 – domestic di fitting requirement & traffic control flaggers

Other

- Owner will not require record drawings from the Contractor.

Contractor Questions

- Will it be the Contractor's responsibility to determine the protection requirements for Xcel OHP?

- ✓ District has discussed this with GVP. Based on our opinion of trench excavation and proximity of OHP poles, there should be more than 3-ft of undisturbed earth between edge of trench and OHP poles.

If the Contractor anticipates this becoming less than 3-feet, the Contractor must coordinate with GVP's Operations Supervisor (Mark Shaffer @ 970.260-8179) to protect OHP poles (holding poles as needed).

During these discussions, GVP asked the District's Contractor to coordinate construction schedule with GVP's Operations Supervisor (Mark Shaffer @ 970.260-8179) to mark OHP conductors.

OHP protection will be the Contractor's responsibility.

- Will the Project (Owner or Mesa Co) have any unusual PPE requirements for COVID?
 - ✓ The District has not been made aware of anything different than the current common sense message.

Utility Owners

- Gas – Xcel Energy
- Electric – Grand Valley Power
- Sewer – NA
- Phone – Century Link
- Cable – Charter
- Irrigation – 22 Road Lateral Company