

SCOPE OF WORK
Main Water Line Supply Connections Project No. 666-12-126
VA Medical Center, Sheridan, WY
January 23, 2015

Introduction:

The Sheridan Wyoming Veteran's Medical Center has a 100 plus year old 8" raw water line that runs from the VA's water filtration plant to B58 below the water tower that is used for irrigation. The line has deteriorated to the point where it is no longer reliable and must be replaced. The line is approximately 1.7 miles long and parallels another 10" potable water line owned by the VA which was replaced around 1985. The raw water line was originally cast iron with lead joints but over the years sections have been replaced with ductile iron and also PVC. There are no accurate records of repairs but there is a corporate knowledge of where these repairs exist amongst the VA maintenance staff. The raw water line crosses at least 6 private property owners and the VA has obtained 30' wide maintenance easement on these properties. There are two taps known to be on the line.

Statement of Work:

Contractor shall provide equipment, material, and labor required to replace the raw water line with a new 10" water line using pipe burst and direct bore methods and other work as per drawings and specifications. Piping shall be welded HDPE pipe. Good relationships with the private land owners must be maintained during the construction. The line replacement will encompass the entire 1.7 miles of raw water line from the water filtration plant to B58 including the entrance infrastructure where the raw water line separates before the potable water system at the water filtration plant and the shut off valve at B58 near the water tower. There will be two switching points so that potable and irrigation waters can be changed between the lines for various reasons such as water line breaks.

Note: Project shall begin in August to allow property owners to cut late season hay on the proposed water line route. Total length of the project shall be 120 calendar days.

Statement of Bid Items:

A. The Bid Proposal consists of a Base Bid and Seven (7) Add Alternates to replace the existing 8-inch raw water line and a section of the existing parallel 10-inch potable water line with 10-inch high density polyethylene pipe (HDPE) water lines with HDPE bends using butt-fused joints by way of the static pull and/or splitting methods of pipe bursting and some mechanical joint thrust restraint, ductile iron bends, a directional bore under Soldier Creek and some open cut excavation/backfill. In addition to the pipe installation, two precast concrete flow control structures, two air release manholes, two residential water service manholes, fire hydrants and isolation valves will be installed, complete and operational.

It is the intent to convert the majority of the newly constructed existing raw water line for usage as the Medical Center's potable water line. The existing potable water line will then become the line for raw water use to the Medical Center.

The work shall include, but is not limited to, pipe line disinfection, cathodic protection of metallic fillings, gravel surfacing, resetting of fences, seeding, fertilizing, mulching and other necessary or Owner required incidentals.

There are seven (7) Add Alternates to the Bid Proposal to give the Owner several construction options or priorities, depending upon the costs of the work and availability or access to the different property ownerships along the project route.

Each Add Alternate is for a different property owner as described below and shown on the plans. All Bidders shall complete and provide a Bid Proposal for the Base Bid and all seven Add Alternates. The Owner reserves the right to waive any informalities, and may choose to accept or reject any of the Bids or Add Alternates for whatever is advantageous or cost effective to the Owner.

B. The Base Bid is for that portion of the water improvements across the VA Medical Center property at each end of the project using 10-inch HDPE pipe using butt-fused welded joints and bends or MJ ductile iron bends. The improvements would include the replacement of an existing air release manhole. There are also two (2) water service connections / reconnections that will be required with the Base Bid. At Stations 48+65 and 57+84 on the plans there are currently (two) 2-inch water services connected to the existing 10-inch potable water line. The Base Bid will require that these existing 2-inch water services be connected to both 10-inch water lines via the water service manhole and piping detail shown on plan detail Sheet CU504.

Said price shall include all equipment, labor costs, incidental materials and costs for connecting or reconnecting to existing lines, disinfecting and pressure testing of all new water systems. The restoration work includes any grading work, seeding, fertilizing and mulching.

C. Add Alternate No. One would increase the length and extent of the pipe bursting/splitting on the existing 8-inch raw water line for installation of new 10-inch HDPE pipe and bends through the property belonging to the Sheridan Heights Ranch, about 3,700 linear feet between approximate Stations 11+70 to 48+70. The improvements would include the replacement of an existing air release manhole.

Said price shall include all equipment, labor costs, incidental materials and costs for connecting or reconnecting to existing lines, disinfecting and pressure testing of all new water systems. The restoration work includes any grading work, seeding, fertilizing and mulching.

D. Add Alternate No. Two would increase the length and extent of the pipe bursting/splitting on the existing 8-inch raw water line for the installation of new 10-inch HDPE pipe with butt-fused joints and bends through the property belonging to the Double Eagle, LLC, about 920 linear feet between approximate Stations 48+70 to 57+90.

Said price shall include all equipment, labor costs, incidental materials and costs for connecting or reconnecting to existing lines, disinfecting and pressure testing of all new water systems. The restoration work includes any grading work, seeding, fertilizing and mulching.

E. Add Alternate No. Three would increase the length and extent of the pipe bursting/splitting on the existing 8-inch raw water line for the installation of new 10-inch HDPE pipe through the property belonging to William and Evelyn Ebzery, about 585 linear feet between approximate Stations 57+90 to 63+75 using butt-fused welded bends and joints.

Said price shall include all equipment, labor costs, incidental materials and costs for connecting or reconnecting to existing lines, disinfecting and pressure testing of all new water systems. The restoration work includes any grading work, seeding, fertilizing and mulching.

E. Add Alternate No. Four would replace the existing 10-inch potable water line for approximately 980 lineal feet between approximate Stations 57+18 to 67+10 right using the pipe bursting/splitting and open cut methods for the installation of new 10-inch HDPE, fire hydrant and isolation gate valves.

Said price shall include all equipment, labor costs, incidental materials and costs for connecting or reconnecting to existing lines, disinfecting and pressure testing of all new water systems. The restoration work includes any grading work, seeding, fertilizing and mulching.

F. Add Alternate No. Five would increase the length and extent of the pipe bursting on the existing 8-inch raw water line for the installation of new 10-inch HDPE pipe using butt-fused joints through the property belonging to Mydland, Elmer Milton Trustee, about 300 linear feet between approximate Stations 63+75 to 66+70.

Said price shall include all equipment, labor costs, incidental materials and costs for connecting or reconnecting to existing lines, disinfecting and pressure testing of all new water systems. The restoration work includes any grading work, seeding, fertilizing and mulching.

G. Add Alternate No. Six would increase the length and extent of the pipe bursting of the existing 8-inch raw water line for the installation of new 10-inch HDPE pipe through the property belonging to Wesley and Anna Richards for about 270 linear feet between approximate Stations 66+70 to 69+40. The improvements would also include the abandonment of a section of the existing 8-inch raw water line under Soldier Creek and the replacement of this section with new 10-inch HDPE pipe using the directional bore method of installation, new fire hydrant, isolation gate valves, bends and fittings.

Said price shall include all equipment, labor costs, incidental materials and costs for connecting or reconnecting to existing lines, disinfecting and pressure testing of all new water systems. The restoration work includes any grading work, seeding, fertilizing and mulching.

H. Add Alternate No. Seven would increase the length and extent of the pipe bursting on the existing 8-inch raw water line for the installation of new 10-inch HDPE pipe through the property belonging to Rice and Sons, about 2,055 linear feet between approximate Stations 69+40 to 89+95 using butt-fused welded bends and joints.

Said price shall include all equipment, labor costs, incidental materials and costs for connecting or reconnecting to existing lines, disinfecting and pressure testing of all new water systems. The restoration work includes any grading work, seeding, fertilizing and mulching.

Codes:

All work shall be provided in accordance with the most current edition of the following criteria:

- a. VA Construction Specifications provided with bid package.
- b. Drawings showing floor plan.
- c. VA Design and Construction Procedures. VA PG-18-3.
- d. National Fire Protection Association Codes (NFPA)
- e. Occupational Safety and Health Administration (OSHA) standards.

End of Statement of Work

Bid Package: The bid package, drawings and specifications, will be delivered to the contracting officer separate from this 2237.

VA Contacts:

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