

AMENDMENT NO. 1

to the

REQUEST FOR PROPOSALS

for the

WEST CASPER ZONE II WATER SYSTEM IMPROVEMENTS
PROJECT 15-59

by

CITY OF CASPER
200 N. David
Casper, Wyoming 82601

ADDENDUM DATE: May 25, 2016

Receipt of this Amendment must be acknowledged by filling in the spaces provided below and including one (1) copy attached to the Proposal.

APPROVED: (CITY OF CASPER)



Scott R. Baxter, P.E.

ACKNOWLEDGMENT OF RECEIPT OF
AMENDMENT (CONSULTANT)

Firm

By: Signature

Title

Date Received

AMENDMENT NO. 1

to the RFP for the

WEST CASPER ZONE II WATER SYSTEM IMPROVEMENTS
PROJECT 15-59

for the City of Casper, Wyoming

AMENDMENT DATE: May 25, 2016

This amendment to the Request for Proposals is hereby made a part of the Contract Documents for the above titled project, to the same extent as though it were originally contained therein.

All consultants are expected to thoroughly examine each item enumerated herein, regardless of its apparent application and shall be responsible for furnishing all services required in the scope of work as the items indicate.

Design Phase

ADD Paragraph 12 as follows:

12. The Consultant shall make provisions within the project proposal and fee proposal for all coordination, correspondence, applications, documentation, meetings, etc. with regard to the following parties and governmental entities.
 - a. Property Owners (Utility Easement Negotiations) – The Consultant shall initiate and coordinate all utility easement negotiations with appropriate property owners. The City of Casper will provide legal review, support and forms as necessary and will provide engineering staff for all applicable correspondence and negotiations. The Consultant shall include estimated fees based upon the tentative timetable included in the RFP.
 - b. Wyoming Department of Transportation – The Consultant shall make application for all appropriate permits and shall obtain approved permits from WYDOT with respect to water transmission main placement within the WYDOT right-of-way on CY Avenue.
 - c. Wyoming Department of Environmental Quality – The Consultant shall make application for all appropriate permits and shall obtain approved permits from WDEQ with respect to water transmission main installation and connection to the existing water system.
 - d. US Army Corps of Engineers (Wetland Disturbance) – The Consultant shall delineate any wetlands which are expected to be affected as part of the project construction and shall notify the USACOE, apply for all appropriate permits and shall obtain approved permits with respect to water transmission main installation affecting wetlands.

Construction Phase

Paragraph 4h – REMOVE the words “and all Davis Bacon requirements including Davis Bacon wage requirements job reports, payrolls, interview information and documentation.”

TIMETABLE

Change the date for item 4 from “February 15, 2016” to “February 15, 2017.”

Late Proposals

Change the word “Tuesday” to “Thursday.”

Reference Materials

After the 2006 City of Casper Water System Master Plan Level I Study was completed, further study was completed by Civil Engineering Professionals, Inc. in 2014 and is summarized in the attached Technical Memorandum labeled Exhibit “A.”



Technical Memorandum

Date: July 29, 2014
To: David Hill, City of Casper
From: Nick Larsen
Tom Brauer
WO #: 14-42
Subject: West Zone II Transmission Main

Purpose

The 2006 Casper Master Plan Level I Study identified that the western Pressure Zone II of the City of Casper water system is in need of redundancy to provide a more reliable water source to the customers in this area. This Technical Memorandum (TM) supplements the Casper Master Plan providing a more in depth study specifically addressing alternatives for improving redundancy to western Pressure Zone II. This TM is broken up into five sections: Purpose, Background, Alternatives, Recommended Alternative, and Cost Estimate.

Background

The 2006 Casper Master Plan Level I Study identified the need for a redundant transmission main to provide water to the western Pressure Zone II. The western Pressure Zone II consists of Webb Creek, Indian Hills, Westland Park, Skyline Ranches, and Gothberg Subdivisions, as well as a small portion of Paradise Valley Subdivision. Water is pumped into the western Pressure Zone II through a single pump station (Southwest Pump Station) with no alternate supply source. The water is pumped into the Southwest Water Storage Tank located on a hill adjacent to the Gothberg and Webb Creek subdivisions.

As part of the 2003 Level I Study for the South Garden Creek Water Supply Study the Level II Study for the Squaw/Wolf Creek area was completed. The Squaw/Wolf Creek area has expressed concerns over diminishing groundwater supplies. The 2003 study recommended that the Squaw/Wolf Creek area form a water district to become an outside-City retail water customer. A preliminary design for a connection to the City water system and a distribution system for the Squaw/Wolf Creek area was proposed in this study as well as financing options. The residents in the area did not form an improvements and service district and the project was never constructed; however, there is still a real concern over diminishing groundwater supplies and a need for reliable potable water service in the area. The 2006 Casper Master Plan confirms that Pressure Zone II has the additional pumping and storage capacity required for the projected water demands identified in the Squaw/Wolf Creek Level II Study.

The proposed Southwest Zone II Transmission Main would not only provide a redundant water source to the Webb Creek, Indian Hills, and Gothberg subdivisions, it would also provide a great benefit to the existing residents in the Squaw/Wolf Creek area.

Alternatives

CEPI identified three possible water main corridors. The alternatives are identified in Figure 1 and detailed below.

- Option 1
 - Install 12-inch PVC water main in Wolf Creek Rd. from West 40th St. to CY Ave.
 - Install 12-inch PVC water main from Wolf Creek Rd. to the existing 12-inch stub south-east of Walmart.
 - Install 12-inch PVC water main adjacent to CY Ave. inside the WYDOT right-of-way from Wolf Creek Rd. to Coates Rd. and connect to the existing 16-inch Pressure Zone II water main in Coates Rd. The crossings at Wolf Creek and Squaw Creek will be challenging. The existing slope from CY Ave. to the creeks is very steep with large culverts at the bottom that are near the right-of-way. It is anticipated that the water main will need to be installed outside of the WYDOT right-of-way and additional easements for these two crossing will be necessary.

- Option 2
 - Install 12-inch PVC water main from Wolf Creek Rd. to the existing 12-inch stub south-east of Walmart.
 - Install 12-inch PVC water main in Wolf Creek Rd. from the Walmart connection to West 40th St.
 - Install 12-inch PVC water main from the intersection of Wolf Creek Rd. and 40th St. to the platted Tavares Rd. Easements will be required for this section.
 - Install 12-inch PVC water main on Tavares Rd. north to CY Ave.
 - Install 12-inch PVC water main adjacent to CY Ave. inside the WYDOT right-of-way from Tavares Rd. to Coates Rd. and connect to the existing 16-inch Pressure Zone II water main in Coates Rd.

- Option 3
 - Install 12-inch PVC water main in Wolf Creek Rd. from West 38th St. south approximately 2,000 linear feet.
 - Install 12-inch PVC water main from the west end of Eagle Dr. to the platted Tavares Rd. Easements will be required for this section.
 - Install 12-inch PVC water main on Tavares Rd. north to CY Ave.
 - Install 12-inch PVC water main adjacent to CY Ave. inside the WYDOT right-of-way from Tavares Rd. to Coates Rd. and connect to the existing 16-inch Pressure Zone II water main in Coates Rd.

Table 1 identifies the key components for each Alternative.

Table 1

<u>Criteria</u>	<u>Option 1</u>	<u>Option 2</u>	<u>Option 3</u>
Total Length	13,400 LF	13,200 LF	13,750 LF
Access for Maintenance	Very Accessible	Difficult – Large portion of water main in easements away from existing roads	Difficult – Large portion of water main in easements away from existing roads
Required Easement Length	2,150 LF (Majority of water main inside WYDOT ROW)	5,650 LF	6,600 LF
Ability to Serve Existing and Potential Development	Minimal	Excellent	Excellent
Creek Crossing	Very Difficult	Moderate Difficulty	Moderate Difficulty

Recommended Alternative

CEPI analyzed each water main corridor with the criteria listed above. All three options provide the necessary redundancy for southwest Pressure Zone II with each option having specific challenges and benefits; however, Option No. 2 is the recommended option. The location of the Option No. 2 water main will best serve the existing water system customers and potential future customers. The Option No. 2 water main runs through the middle of the Squaw/Wolf Creek area allowing for easy connectivity when this area elects to form a district and connect to the City's water system. Additionally, WYDOT was contacted regarding installation of the waterline in the CY Avenue Right-of-way; no formal approval was provided at the time of completion of this technical memorandum. WYDOT has historically been very reluctant to allow large wet utilities to parallel their right-of-way due to concerns regarding potential pipeline rupture and protection of the right-of-way for future construction.

Cost Estimate

The estimate cost for designing and constructing the proposed Option No. 2 water main is \$2,600,000.00. The estimate has been developed using actual costs from other similar recent projects in the greater Casper area. The costs are detailed in Table 2.

Table 2 - West Zone II Transmission Main - Option 2 Cost Estimate

Preparation of Final Design and Specifications				\$183,420.00
Permitting and Mitigation				\$15,000.00
Legal Fees				\$15,000.00
Acquisition of Access and Right-of-way				\$50,000.00
Construction Costs				
Description	Quantity	Unit	Unit Cost	Total
Mobilization and Bonds	1	LS	\$200,000.00	\$200,000.00
12-inch PVC Waterline	13,200	LF	56.00	739,200.00
12-inch Fittings	25	EA	1,200.00	30,000.00
12-inch Valves	15	EA	3,000.00	45,000.00
Creek Crossing	2	EA	15,000.00	30,000.00
Air Release Valves	13	EA	8,000.00	104,000.00
Fire Hydrant Assembly	20	EA	7,000.00	140,000.00
Connect to Existing Pipelines	9	EA	3,000.00	27,000.00
Select Backfill	4,500	CY	20.00	90,000.00
Foundation Material	500	CY	50.00	25,000.00
Asphalt Patching	5,200	SY	70.00	364,000.00
Traffic Control	1	LS	40,000.00	40,000.00
Construction Cost Subtotal No. 1				\$1,834,200.00
Engineering Services During Construction (10%)				\$183,420.00
Construction Cost Subtotal No. 2				\$2,017,620.00
Contingency (15% of CCS No. 2)				\$302,640.00
Construction Cost Total				\$2,320,260.00
TOTAL PROJECT COST				\$2,584,000.00