

ADDENDUM 02
TOWN OF COULEE CITY – REDUCTION OF INFLOW AND INFILTRATION TO
WASTEWATER SYSTEM

ITEM 1 –

REVISED BID DOCUMENTS

A revised set of plans, REVISED BID DOCUMENTS (PER ADDENDUM 02) have been prepared showing changes discussed in this Addendum and Addendum 01. There may be some changes that are discussed in general in the Addendum but are shown specifically in the REVISED BID DOCUMENTS. The revised set of plans replaces the BID DOCUMENTS initially provided for the project. This revised set of plans, REVISED BID DOCUMENT (PER ADDENDUM 02) dated March 05, 2010 shall be used for preparation of bids.

ITEM 2 –

BASIS OF BID

A revised BASIS OF BID has been prepared to show changes to quantities that resulted from the changes discussed below. The revised BASIS OF BID dated March 05, 2010 shall be used for preparation of bids.

ITEM 3 –

Clarification on location and quantity of bedrock.

Four test holes were excavated to determine approximate depth of bedrock in project areas. Locations and depths are shown on attached plan set. In general, bedrock may be expected in pipe trenches closest to Adams Street. In general as one move farther west from Adams Street the bedrock is deeper than the pipe trench. An estimated quantity based on previous work is presented in the Basis for Bid.

ITEM 4 –

CONSTRUCTION NOTES

Several existing water meters and boxes are on private property and need to be moved closer to the water main into the City Right of Way. Therefore a new note is shown in the plan set.

Construction Notes:

Number 5: NOT USED is changed to:

5. LOCATE METER AND METER BOX CLOSER TO WATER MAIN IN CITY RIGHT OF WAY. LOCATE WITH DIRECTION FROM CITY.

Also a new note is entered to show location of 2-inch water services with meters.

Number 6: NOT USED is changed to read:

6. 2 "WATER SERVICE AND METER, INSTALL PER DETAIL 4 SHEET C2.2.

ITEM 5 –

DELETING FROM PROJECT INSTALLATION OF 6-INCH PIPE ON I.8 NE

Plan Sheet C1.3 RD I.8 NE

Pipe installation and/or replacement shown on plan sheet C1.3 between ST 23+15 and ST 28+10 is deleted from the project. Detail 2/C2.1 for pipe connections at Locust and I.8 is

deleted and the detail designation is used for a new 2 inch connection at Lewis and Newell Streets. Detail 1/C2.1 for pipe connections at the intersection of Washington Street and I.8 NE is revised and is shown in the revised plan set.

Approximately 495 linear feet of 6 inch PVC pipe will not be replaced and is therefore removed from the Quantity Tabulation and Basis for Bid. The valve replacement on Locust Street and I.8 NE is also within this stretch (ST23+15 to ST28+10) and is therefore also removed from the work. Quantities for bid items associated with this change; for example, **Remove Abandoned Pipe, Saw cut Existing Pavement, Removal of Pavement, and Trench Restoration for Pavement and Gravel**, and others are revised.

New quantities for the bid items associated with this change are shown in the revised **SUMMARY OF QUANTITIES and QUANTITY TABULATION** on the revised plan set and on the revised **BASIS OF BID**.

ITEM 6 -

Thrust restraint for pipe

The preferred method for pipe restraint for this project is being changed from concrete thrust blocks to Megalugs. Thrust blocks are to be used only where necessary and/or shown in the plans. Thrust blocks are appropriate for some fittings so the Typical Thrust Block Detail remains in the plan set. As stated in **Special Provisions 7-09.5 Payment** all concrete thrust blocks or thrust restraint are included in the unit price cost for pipe installation. Thrust restraint includes all megalugs and bell restraint harness.

One thrust block detail showing an elbow with hooks and thrust block were removed from the detail sheet. See revised plan sheet.

ITEM 7 -

Sheet C2.1 DETAILS – WATERLINE CONNECTIONS

Each detail has been revised to show minimum restraining length (L_r) for all connections. All fittings are changed from flange to cast iron mechanical joints. EBAA Iron Series 2000PV mechanical joint restraints (or equal) and EBAA Iron Series 1500 bell restraint harness (or equal) are specified for all mechanical joints and joint restraint. All fittings and appurtenances must comply with ANSI/AWWA C153 standards for cast iron fittings. Revised sheet is included in the revised plan set.

ITEM 8 -

BID ITEM – SERVICE CONNECTION 1 INCH DIAMETER INCL. METER

Bid Item is changed to:

“SERVICE CONNECTION ¾ INCH DIAMETER INCL. METER.”

There are 19 - ¾ inch water meters to be installed on the project. The BASIS OF BID and SUMMARY OF QUANTITIES are revised to show quantities on each street.

ITEM 9 -

NEW BID ITEM – SERVICE CONNECTION 2 INCH DIAMETER

Two inch polyethylene pipe service line has been added to two places in this project; at the intersection of Newell and Lewis Streets and on Walnut Street. There is approximately 343 linear feet of 2-inch poly pipe line to be installed. There are two ¾-inch water services on the 2-inch service line north of Lewis Street.

A detail (2/C-2.1) for the connection to the 6 inch PVC water main on Lewis Street is shown on the revised plan set.

The addition is shown in the revised **BASIS OF BID** and **SUMMARY OF QUANTITIES** and **QUANTITY TABULATION** on plan sheet G-1.2.

ITEM 10 -

NEW BID ITEM - SERVICE CONNECTION 2 INCH DIAMETER INCL. METER

Two 2-inch service connections including meter have been added to the project on Walnut Street (ST3+37 and ST 7+50). The addition is shown on the revised BASIS OF BID.

A new detail has been added to plan sheet C2.4 for installation of the 2 inch services and meters. The change is also shown in the revised plan set in **SUMMARY OF QUANTITIES** and **QUANTITY TABULATION**.

ITEM 11 -

SPECIAL PROVISIONS

The following section **7-08** and subsection **7-08.1 – 7-08.5** are added to SPECIAL PROVISIONS in the specifications.

7-08 GENERAL PIPE INSTALLATION REQUIREMENTS

7-08.1 Description

Supplement section **7-08.1** as follows:

“These requirements apply to all water main installation.”

7-08.3(1)B Shoring (Trench Safety Systems)

Supplement section **7-08.3(1)B** with the following:

All trench excavations for water main installation and groundwater collection system facilities shall have adequate safety systems in compliance with all federal, state, and local safety standards. See *WAC 296-155 Part N Excavation, Trenching, and Shoring* and the Washington Industrial Safety and Health Act, Chapter 49.17 RCW. The Contractor shall be fully and solely responsible for providing the necessary back slope, cribbing, trench boxes, etc., as required to meet the specified safety requirement for the trench for all persons entering the trench.

For bidding purposes the quantity for Trench Safety System was estimated as the entire installed length of water main, the groundwater collection trench, and storm sewer pipe.

7-08.3(1)C Bedding the Pipe

All references to the Standard Plan for water main installation shall refer to the Water Pipe Trench Section Detail in the Contract Plans.

Add the following sections after **7-08.3(4)**:

7-08.3(5) Surface Restoration

Unless stated specifically to the contrary in the contract plans, the contractor shall replace all surface material and shall restore paving, curbing, sidewalks, gutters, fences, sod, topsoil, and other items disturbed, to a condition equal to that before the work began; furnishing all labor, material, and equipment necessary to do this work. Traveled streets shall be kept open and

maintained by the contractor after the backfilling and before surfacing or final inspection. Unless otherwise paid for under Trench Restoration (*See 8-02 - Restoration*), the cost of all such work shall be absorbed in the unit bid price for pipe installation. There will be no separate payment for surface restoration of trench for the two-inch polyethylene water pipe, or water service pipes.

7-08.3(6) Concrete Encasement

Encase sanitary sewer pipe in concrete where clearance with new water line does not meet required separation as indicated on the construction drawings. Concrete shall have 28-day minimum compressive strength of 2,000 psi. Where the water main is replacing an existing main the sewer pipe should already be encased in a steel casing. If the water main installation does not disturb the sewer casing then no further concrete encasing is necessary. However, if the casing is damaged or does not extend ten feet on either side of the new water main, the casing shall be extended and/or repaired to the satisfaction of the engineer. For bidding purposes it is assumed that all sewer pipes crossing existing water mains will need five more feet of encasement and new water lines will need full twenty feet of concrete encasement. Concrete encasement is incidental to installation of any water line.

7-08.4 Measurement

Delete the fourth through sixth paragraphs of section **7-08.4** and replace with the following:

There will be no specific unit of measure for trench excavation, trench backfill, clearing and grubbing, Gravel Backfill for Pipe Zone Bedding, dewatering, or concrete encasement.

“Trench Safety System” will be measured along the centerline of all installed mainline pipes over four feet in depth measured from six (6) inches below invert to the ground surface. Measurement for Trench Safety Systems will be by the linear foot measured along the pipe centerline with no reductions for structures.

There will be no separate measurement for Underground Utility locates as required in Section 7-08.3(1)D, Underground Utilities. All costs of investigation and any necessary protection, support, removal, or relocation of existing structures shall be included in the contract bid price for laying pipe.

7-08.5 Payment

Supplement section **7-08.5** with the following:

There will be no separate payment for trench excavation, trench backfill, Gravel Backfill for Pipe Zone Bedding, marking tape, clearing and grubbing, dewatering, concrete encasement, removal of trees or shrubs, or loading, hauling, and dumping of the excavated or removed material. All costs associated with this work shall be considered incidental and be included in related bid items.

“Trench Safety System” per linear foot of pipe installed.

All costs for trench safety systems for service connections shall be incidental. The unit contract price, per linear foot, for “Trench Safety Systems”, shall be full compensation for furnishing all labor, equipment, materials and all other incidentals necessary to meet the requirements of the Washington Industrial Safety and Health Act, Chapter 49.17 RCW.

ITEM 12 -

Dewatering of pipe trenches

Historically the groundwater elevation east of Adams Street increases in the late winter and spring. The groundwater is generally closest to the ground surface below the land between Adams and Newell Streets. Although drainage tiles are installed to limit groundwater elevation in the area there may be up to 1 foot of water in the pipe trenches closest to Adams Street.

7-09.5 Payment

In the first paragraph beginning with *“The unit Contract price per linear foot for each size and kind of “PVC Pipe for Water Main...”* **Dewatering** is added as an incidental cost to payment for PVC pipe.

With this correction the first paragraph in 7-09.5 Payment now states:

“ The unit Contract price per linear foot for each size and kind of “PVC Pipe for Water Main ___ In. Diam.” shall be full pay for all Work to complete the installation of the water main including but not limited to trench excavation, dewatering, bedding, laying and jointing pipe and fitting, backfilling, concrete thrust blocking or thrust restraint, testing, flushing, disinfecting the pipeline, clean up, vertical and/or horizontal deflection, polyethylene encasement, haul of materials, potholing, detectable marking tape, and compaction.

“Dewatering” lump sum is deleted.

ITEM 13 -

SPECIAL PROVISION

7-14 HYDRANTS

7-14.5 Payment

Payment for reconnecting existing hydrant is amended to except out a new valve which is paid for in *Bid Item 10 Gate Valve 6 inch*. Amended the section reads as follows:

“Reconnecting Existing Hydrant”, per

The unit Contract price per each for “Reconnecting Existing Hydrant” shall be full pay for all Work to reconnect the existing hydrant, excepting however, a new valve and that new pipe used for the connection will be paid as specified in Sections 7-12.5 and 7-09.5 respectively.

ITEM 14 -

SPECIAL PROVISION 7-15 WATER SERVICE CONNECTIONS

7-15.3 Construction Requirements

Delete trench restoration from the supplement. The corrected supplement reads as follows:
“Details for installation and type of service connections are shown on the Plans. Contractor is responsible to provide all materials and work as needed to install new service connections from existing main to location of new water meter or to install new service connection from new main to location of existing water meter(s). This work includes but is not limited to, tapping new or existing main, excavating, trenching and laying service pipe, installing new meter box, natural trench restoration, meter setter, and new meter. It also includes removal and delivery to City personnel all existing meter boxes and meters and abandoning existing service line.

7-15.3(3) Water Meters

There are only $\frac{3}{4}$ inch and 2 inch meters specified on this project.

Corrected supplement reads:

All existing meters shall be replaced with remote-read ¾" (or 2- inch as noted on plans) multijet flow meter (with 7 ½ inch lay length) for handheld radio read system as approved by Town of Coulee City. All meters shall be compatible with City's "drive-by" radio read system. Existing meters are: Master Meter Inc multijet meter with Dialog 3G-DS. Coordinate installation of meters with Town.

7-15.4 Measurement

This item is revised to include 2 inch meters; the corrected section reads:

Measurement of two-inch and smaller service connections will be per each for each size installed.

7-15.5 Payment

Section is changed so that *natural surface* restoration is incidental in the installation of each service connection. Surface restoration requiring gravel or pavement restoration for trenches are paid for per linear foot.

Corrected section reads:

"Service Connection ____in Diam. Incl. Meter." per each.

The unit contract price per each for "Service Connection ____in Diam. Incl. Meter." Shall be full pay for all work to install a new service connection, including but not limited to, excavating, tapping the main, laying and jointing the pipe and fittings and appurtenances, natural surface restoration, furnishing and installing the water meter box, meter setter, and meter, backfilling, testing, flushing, and disinfection of the service connection.

The following section is added to **7-15.5 Payment**:

"Service Connection 2 in. Diam." per lf.

The unit contract price per linear foot for Service Connection 2 inch Diam." shall be full pay for all work to install the two-inch polyethylene pipe as shown in the detail on the plans, including but not limited to, excavating, tapping the main, the tapping saddle, furnishing and installing hydrant at dead end, laying and jointing the pipe, and all other fittings and appurtenance (including connecting to valve), natural surface restoration, backfilling, testing, flushing, and disinfection of the service connection pipe.

ITEM 15 -

SPECIAL PROVISION 8-02 SURFACE RESTORATION

The following section is added.

8-02.3(19) Natural Surface Restoration

Natural Surface Restoration of a trench involves placing a minimum of 6 inches, lightly compacted, native soil raked to match existing grade as detailed in the contract plans. The surface is to be fertilized and seeded with grass seed appropriate for the region. Natural surface restoration of any trench is to be included in the price of pipe installed in that trench.

ITEM 16 -

Guard rail line type has been added to LINETYPE & DEFINITION in plan sheet G1.1

ARTICLE 5 - BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

BASIS OF BID (MARCH 5, 2010)

Item No.	Item Description	Unit	Est. Quantity	Unit Price	Total Estimated Price
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SECTION 1 - PREPARATION

1	MOBILIZATION	L.S.	1	\$	\$
2	REMOVE ABANDONED PIPE	L.F.	1,880	\$	\$
3	SAWCUT EXISTING PAVEMENT	L.F.	925	\$	\$
4	REMOVAL OF PAVEMENT, SIDEWALK, AND CURB	S.Y.	154	\$	\$

SECTION 7 - WATERLINES

5	ROCK EXCAVATION	CY	70	\$	\$
6	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CY	20	\$	\$
7	PLUGGING EXISTING PIPE	EACH	10	\$	\$
8	ABANDON SMALL DIAMETER SERVICE PIPE	EACH	1	\$	\$
9	PVC PIPE FOR WATER MAIN 6 IN. DIAM.	LF	2,846	\$	\$
10	GATE VALVE 6 IN	EACH	13	\$	\$
11	CONNECTING TO EXISTING PIPE 6 IN	EACH	5	\$	\$
12	CONNECTING TO EXISTING PIPE 8 IN	EACH	1	\$	\$
13	HYDRANT ASSEMBLY	EACH	4	\$	\$
14	RECONNECTING EXISTING HYDRANT	EACH	2	\$	\$
15	SERVICE CONNECTION 2 IN DIAM.	LF	343	\$	\$
16	SERVICE CONNECTION 2 IN DIAM. INCL METER	EACH	2	\$	\$
17	SERVICE CONNECTION 1 IN. DIAM. INCL METER	EACH	19	\$	\$

SECTION 18 - TRAFFIC

18	PROJECT TEMPORARY TRAFFIC CONTROL	LS	1	\$	\$
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Item No.	Item Description	Unit	Est. Quantity	Unit Price	Total Estimated Price
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SECTION 19 - OTHER ITEMS

19	TRENCH SAFETY SYSTEM	L.F.	3,443		
20	TRENCH RESTORATION - PAVEMENT	L.F.	463	\$	\$
21	TRENCH RESTORATION - GRAVEL	L.F.	2639	\$	\$
22	CONTRACTOR SURVEYING	L.S.	1	\$	\$
23	TEMPORARY CONSTRUCTION SIGN	EACH	1	\$	\$
24	TRIMMING AND CLEANUP	LS	1	\$	\$

SUBTOTAL	(Sum of Items 1 - 24)	_____
TAX	7.90%	_____
TOTAL		_____