

CARSON CITY PURCHASING AND CONTRACTS
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NOTICE TO CONTRACTORS
BID #1011-243
East-West Water Transmission Main Project – Phase I
”PWP # CC-2011-301

July 5, 2011

Addendum No. 2

Replace the bid proposal in it's entirety with the following:
Bid Proposal:

BID # 1011-243**BID TITLE:** EAST-WEST WATER TRANSMISSION MAIN PROJECT – PHASE I

NOTICE: No substitution or revision to this Bid Proposal form will be accepted. Carson City will reject any Bid that is received that has changes or alterations to this document. Although the Prevailing Wages are provided in this bid document, the bidder is responsible to verify with the Labor Commissioner if any addendums have been issued. The successful bidder will be required to provide the current Prevailing Wages used in preparation of their bid within 24 hours of bid submission.

PRICES will be valid for sixty (60) calendar days after the bid opening which is indicated in the Notice to Contractors.

A COPY OF CONTRACTOR'S "CERTIFICATE" of eligibility issued by the State of Nevada Contractors' Board as proof of Bidder's compliance with the provisions of N.R.S. 338.147 must be submitted with his/her bid for the preference to be considered. This Statute does not apply to projects expected to cost less than \$250,000.

COMPLETION of this project is expected **PURSUANT TO THE BID DOCUMENTS.**

BIDDER acknowledges receipt of _____ Addendums.

SUMMARY

Description		Scheduled Value	Unit	Unit Price	Total Price
SCHEDULE A: BASE BID WORK					
BP.1)	Mobilization, Demobilization And Clean-Up (Sp 2.2.1)	1	LS		
BP.2)	Surveying (Sp 2.2.2)	1	LS		
BP.3)	Traffic Control (Sp 2.2.3)	1	LS		
BP.4)	Clearing And Grubbing (Sp 2.2.4)	1	LS		
BP.5)	Changeable Message Board (Sp 2.2.5)	1	EA		
BP.6)	Remove Composite Surface (Sp 2.2.6)	15,000	SY		
BP.7)	Remove Pcc Pavement Sidewalk Or Flat Work (Sp 2.2.6)	100	SY		
BP.8)	Remove PCC Curb & Gutter (Sp 2.2.6)	800	LF		
BP.9)	Removal Of Other Existing Improvements (Sp 2.2.6)	1	LS		
BP.10)	Removal Bituminous Surface By Cold Milling (Sp 2.2.7)	780	SY		
BP.11)	Unclassified Excavation (Estimated At 1500 Cy) (Sp 2.2.8)	1	LS		
BP.12)	Type 2 Class "B" Aggregate Base (Sp 2.2.9)	200	CY		
BP.13)	Type 1 PCC Curb & Gutter W/ Agg Base (Sp 2.2.10)	4,300	LF		
BP.14)	6-Inch Retaining Curb W/ Agg Base (Sp 2.2.10)	200	LF		

Description		Scheduled Value	Unit	Unit Price	Total Price
BP.15	PCC Sidewalk, 4 Inch Thickness W/ Agg Base (Sp 2.2.10)	24,000	SF		
BP.16	PCC Concrete, 6 Inch Thickness W/ Agg Base (Sp 2.2.10)	3,000	SF		
BP.17	Detectable Warning Cast Iron Plates (Sp 2.2.10)	210	SF		
BP.18	5" Plantmix Bituminous Pavement Type 3 Aggregate, NV 64-28 NV W/ 16" Type 2 Agg Base (Sp 2.2.11)	16,000	SF		
BP.19	4" Plantmix Bituminous Pavement Type 3 Aggregate, NV 64-28 NV W/ 12" Type 2 Agg Base (Sp 2.2.11)	95,000	SF		
BP.20	3" Plantmix Bituminous Pavement Type 3 Aggregate, NV 64-28 NV W/ 6" Type 2 Agg Base (Sp 2.2.11)	52,000	SF		
BP.21	2" Plantmix Bituminous Pavement Type 3 Aggregate, NV 64-28 NV (Sp 2.2.11)	7,000	SF		
BP.22	Plantmix Miscellaneous Area (Sp 2.2.11)	850	SY		
BP.23	Adjust Existing Manhole Or ARV To New Finish Grade (Sp 2.2.12)	10	EA		
BP.24	Adjust Existing Water Or Gas Valve To New Finish Grade (Sp 2.2.12)	12	EA		
BP.25	Permanent Pavement Paint (White, Width Varies), (Sp 2.2.13)	900	SF		
BP.26	Permanent Pavement Paint (4-Inch Solid White) (Sp 2.2.13)	5400	LF		
BP.27	Permanent Pavement Paint (8-Inch Solid Yellow) (Sp 2.2.13)	275	LF		
BP.28	Permanent Pavement Paint (8-Inch Solid White) (Sp 2.2.13)	475	LF		
BP.29	Permanent Pavement Paint (4-Inch Double Solid Yellow) (Sp 2.2.13)	3,100	LF		
BP.30	Permanent Signs - Ground Mounted Metal Supports (Sp 2.2.14)	72	SF		
BP.31	6-Foot High Chain Link Fence, Temporary Fencing (Sp 2.2.15)	10,000	LF		
BP.32	4-Foot High Wire Fence (Sp 2.2.15)	1,100	LF		
BP.33	Flexible Guide Posts (Bolt Down) (Sp 2.2.16)	11	EA		
BP.34	Class A Monuments (Sp 2.2.17)	10	EA		
BP.35	Weed Cloth And Pre-Emergent (Sp 2.2.18)	3,000	SF		
BP.36	3-Inch To 8-Inch Rounded River Cobble (Sp 2.2.19)	100	CY		
BP.37	4-Inch To 8-Inch Rip Rap (Sp 2.2.19)	250	CY		
BP.38	Over Excavation Of Unsuitable Materials (Sp 2.2.20)	1,000	CY		
BP.39	Type 4R Catch Basin (Sp 2.2.21)	6	EA		

Description		Scheduled Value	Unit	Unit Price	Total Price
BP.40	Type 3 Catch Basin (Sp 2.2.21)	2	EA		
BP.41	15 Inch Class III Or Class IV Rcp Storm Drain (Sp 2.2.21)	19	LF		
BP.42	18 Inch Class IV Rcp Storm Drain (Sp 2.2.21)	316	LF		
BP.43	24 Inch Class IV Rcp Storm Drain (Sp 2.2.21)	105	LF		
BP.44	18 Inch NDOT Type 1 Metal End Section (Sp 2.2.21)	1	EA		
BP.45	18 Inch NDOT Type 1 RCP End Section (Sp 2.2.21)	1	EA		
BP.46	NDOT Headwall for 18" (Sp 2.2.21)	2	EA		
BP.47	NDOT Headwall for 24" (Sp 2.2.21)	2	EA		
BP.48	Roadside Ditch - Width Varies (Sp 2.2.21)	700	LF		
BP.49	60 Inch Storm Drain Manhole Type 1B (Sp 2.2.22)	1	EA		
BP.50	4-Inch PVC Conduit, Schedule 40 (Sp 2.2.23)	15,000	LF		
BP.51	4-Inch Fusible PVC (Sp 2.2.23)	2,850	LF		
BP.52	2-Inch PVC Conduit, Schedule 80 (Sp 2.2.23)	3,100	LF		
BP.53	Conductor Wire (Street Light Service) (Sp 2.2.23)	12,000	LF		
BP.54	NDOT #9 Pullbox (Street Light Service And City Fiber Optic) (Sp 2.2.23)	26	EA		
BP.55	100 Amp Underground Electrical Service Panel (Street Light Service) (Sp 2.2.23)	1	EA		
BP.56	NDOT Type 7 Steel Pole With 15-Foot Mast Arm, NDOT Foundation And LED Luminaire (Sp 2.2.23)	12	EA		
BP.57	Abandon Existing Water Valve (Sp 2.2.24)	1	EA		
BP.58	6 Inch PVC C905 Water Main DR 25 (Sp 2.2.25)	60	LF		
BP.59	10 Inch PVC C905 Water Main DR 25 (Sp 2.2.25)	20	LF		
BP.60	24 Inch PVC C905 Water Main DR 25, Installation Only (Sp 2.2.25)	1100	LF		
BP.61	24 Inch PVC C905 Water Main DR 25 (Sp 2.2.25)	3400	LF		
BP.62	24 Inch Fusible PVC C905 Water Main DR 25 (HDD Section) (Sp 2.2.25)	940	LF		
BP.63	36 Inch Fusible PVC C905 Casing DR 25	940	LF		

Description		Scheduled Value	Unit	Unit Price	Total Price
	(HDD Section) (Sp 2.2.25)				
BP.64	8 Inch Gate Valve (Sp 2.2.26)	1	EA		
BP.65	10 Inch Cut In Gate Valve (Sp 2.2.26)	1	EA		
BP.66	24 Inch Butterfly Valve, Installation Only (Sp 2.2.26)	5	EA		
BP.67	Water Main Line Location Riser (Sp 2.2.26)	2	EA		
BP.68	2-Inch PE Service Line (Sp 2.2.27)	40	LF		
BP.69	Fire Hydrant Assembly (Sp 2.2.28)	1	EA		
BP.70	Sample Hydrant Assembly (Sp 2.2.28)	1	EA		
BP.71	Pipe Bollard (Sp 2.2.29)	2	EA		
BP.72	Air Relief Valve (Sp 2.2.30)	1	EA		
BP.73	Temporary Pavement Patch (Sp 2.2.31)	1	LS		
BP.74	Hydroseeding (Sp 2.2.32)	200,000	SF		
Subtotal Schedule A					
SCHEDULE B: ADDITIVE ALTERNATIVES					
BP.A.1	ADD ALTERNATIVE 1: TRENCHING, BACKFILL AND PAVEMENT PATCH FOR UNANTICIPATED ADJUSTMENT OF EXISTING PRIVATE UNDERGROUND UTILITIES	500	LF		
Subtotal Schedule B					
Total Bid Price					

BP.76 Total Bid Price Written in Words:

GC 3.7 CITY-FURNISHED MATERIALS

Add the following:

The City is furnishing (5) five 24-inch Butterfly Valves for use on the project. Contractor is responsible to picking up valves from the City Corporate Yard at 3505 Butti Way, transporting it to the site and installing them, see SP 2.2.26 for installation bid item.

GC 7.4.5 Traffic Access

Add the following:

The intersection of Saliman Road and Robinson Street may be closed to traffic from the notice to proceed date through August 21, 2011. Butti Way may be closed to through traffic during construction. Access to the City Yard and offices must be maintained throughout construction. All traffic detours must be approved by the construction manager prior to the installation of signage.

Replace SP 2.2.8 with the following:

2.2.8 Unclassified Excavation (Estimated at 1500 CY)

- A. Work under this bid item shall conform to the requirements of Section 1008 of the Technical Specifications and other applicable Technical Specifications contained herein. The estimated quantity listed for Unclassified Excavation is provided for Bidders information only. This quantity has been estimated by calculating the theoretical volume of material to be excavated below an assumed 0.4 foot strip of existing surface improvements and cleared materials. No guarantee of the accuracy of this volume is provided as it is up to the Bidder to determine the actual quantity of material to be excavated.
- B. Measurement for this item will be per lump sum.
- C. Payment for this item will be made at the lump sum price named in the Proposal Summary and is not subject to adjustment under section GC 6.4.4, which price shall constitute full compensation for verification of actual material quantity, excavation, removal of excess material off the project site, embankment construction, compaction, subgrade preparation and all other labor, tools, equipment, materials and incidentals required to perform the work.

SP 2.2.10

Remove the 6' Wide Valley Gutter Bid Item

Replace SP 2.25 with the following:

- 2.2.25 6-Inch PVC C905 Water Main DR 25,
10-Inch PVC C905 Water Main DR 25,
24-Inch PVC C905 Water Main DR 25, Installation only,
24-Inch PVC C905 Water Main DR 25,
24-Inch Fusible PVC C905 Water Main DR25,
36-Inch Fusible PVC C905 Water Main DR25

- A. Work under these bid items shall conform to the requirements of Sections 2001 through 2021, as applicable, of the Technical Specifications and other applicable Technical Specifications contained herein.

PVC pressure piping shall be manufactured by CertainTeed Corporation; Diamond Plastic Corporation; Northern American Pipe Corporation or Northern Pipe Products, or equal. Any other manufacturer shall require a formal substitution request

Carson City has pre ordered some 24-inch watermain pipe for this project. The installation only bid item is for installing this pipe. This pipe is to be used on Robinson Street from "WM" 10+00 to approximately "WM" 21+00 only. This pipe is to be picked and transported by the Contractor from the City's Corporate Yard, coordinate with Construction Manager.

Casing spacer shall be placed as shown on the plans are included with the Fusible PVC bid item, no separate measurement will be made. Fusible PVC shall be horizontal directional drilled per the following specification:

PART 1

1.1 SUMMARY

A. This Section includes horizontal directional drilling, also commonly called directional boring, to install high density polyethylene pressure pipe including the following:

1. Pilot Hole
2. Ream and Pull Back
3. Drilling Fluids
4. Environmental Provisions

1.2 DEFINITIONS

- A. EPDM: Ethylene-propylene-diene-monomer rubber
- B. FRP: Fiberglass-reinforced plastic
- C. PPI: Plastics Pipe Institute

1.3 SUBMITTALS

- A. As-Built of Pilot Hole
- B. Log of Pull Back Forces
- C. Informational Submittals: As follows:
1. Installation plan including the following:
 - a. Location and size of drilling and receiving pits
 - b. Method of Dewatering
 - c. Proposed equipment
 - d. Method of removing spoils materials
 - e. Drilling plan including types of drilling fluids, cleaning and recycling equipment estimated flow rates, and procedures for minimizing drilling fluid escape.

- f. Survey plan to track and locate pilot hole.

PART 2: PRODUCTS

2.1 PIPE MATERIALS

- A. Fusible PVC

2.2 TRACER WIRE

2.3 CASING SPACERS

PART 3: EXECUTION

3.1 PILOT HOLE: Monitor the position of the drill string with downhole drill guidance system as the pilot bore advances. Provide and maintain instrumentation to locate the pilot hole and measure drilling fluid flow and pressure. Alignment Tolerances for the Pilot hole shall be plus/minus 3.0-feet horizontally and 1.0-feet vertically from the alignment identified on the Drawings unless otherwise approved by the CONSTRUCTION MANAGER or as allowed by these Specifications. CONTRACTOR shall ensure that the minimum depth of cover as identified on the Drawings is maintained by the proposed pipeline, and may construct the pipe line to a depth greater than that as shown on the Drawings provided that a positive gradient is maintained on the pipeline at all times and that no "crest" or "high-points" are created in the pipeline alignment.

3.2 AS-BUILT SURVEY: Determine the actual horizontal and vertical alignment of the pilot bore at intervals not exceeding 25 feet. Submit a complete set of as-built drawings showing all bores (successful and failed) within 30 calendar days of completing the work. The drawings shall show the appropriate elevations and be referenced to the project benchmark and datum. Include bore notes on the as-built drawing stating the final bore diameter, product diameter, drilling fluid composition, composition of any other material used to fill the annular void between the bore path and the product.

3.3 REAM AND PULL BACK:

- A. Reaming: Ream the pilot hole upon completion of the pilot bore. The number and size of the reaming operations shall be at the discretion of the CONTRACTOR.
- B. Pulling Loads: Continuously measure and record the force exerted on the pipe during pull back of the Fusible PVC pipe using a load sensor between the pulling equipment and the pipe. Limit the pull back force to the maximum allowed by the pipe manufacturer. Control the pull applied to the pipe by devices such as hydraulic pressure regulator and a load sensor between the pulling equipment and the pipe.
- C. Torsion and Stresses: Install a swivel to connect the Fusible PVC pipe to the drill pipe during pull back.

- D. Pipeline Support: Support pipe with rollers and side boom during pull back.
- E. Tracer Wire: Install a minimum of two separate continuous tracer wires along with Fusible PVC pipe. Tracer wires shall be located on opposite sides of the pipe. Connect any break in the conductor lines with an electrical clamp or solder, and coat the connection with a rubber or plastic insulator to maintain the integrity of the connection from corrosion. Clamp connections must be made of brass or copper and of the butt end type with wires secured by compression. Soldered connections shall be made by tight spiral winding of each wire around the other with a finished length of three (3) inches minimum.
- F. Pipe Cleaning: Upon completion of pull back operations, clean pipe with cleaning pigs to remove residual water, drilling fluids, and debris.

3.5 DRILLING FLUIDS: Use drilling fluids that comply with all environmental regulations. Provide written certification that all chemicals and materials to be added are environmentally safe and not corrosive to the installation. Make provisions for handling drilling fluids and cuttings at entry and exit pits. Do not discharge drilling fluids into waterway. Maintain a closed loop drilling fluid system. Dispose of excess drilling fluids at a permitted location. Monitor drilling fluid pumping rate, pressures, viscosity and density during pilot hole bore, back reaming and pipe installation.

3.6 COMPLETION OF INSTALLATION: Upon completion of work, backfill entry and exit pits, re vegetate disturbed areas and clean site as shown on drawings.

3.7 FAILED BORE PATH: Remove materials installed in a failed bore path. Fill all voids by injecting all annular space with excavatable flowable fill. Submit a revised plan to the ENGINEER for approval before resuming work at another location.

3.8 FIELD QUALITY CONTROL:

- A. As Built Survey: At completion of pilot hole drilling, provide a tabulation of the coordinates referenced to the drilled entry point, which accurately describes the location of the pilot hole and deviation from horizontal and vertical alignment shown on the drawings.
- B. Pressure Test: Conduct pressure test in accordance with the Technical Specifications, replace leaking pipe using new materials, and repeat testing until leakage is within allowed tolerances.

B. Measurement of these items will be per Lineal Foot through valves and fittings in place.

- C. Payment for installing these items will be made at the unit price named in the Proposal Summary, which price shall constitute full compensation for transporting city furnished pipe, sawcutting, excavation, drilling, furnishing and placing the pipe including pipe, casing spacers, fittings, thrust blocks and restraining devices, imported bedding, backfill, locating wire and tape and all other work, labor, equipment and materials necessary for a complete installation.

Replace SP 2.2.26 with the following:

2.2.26 8-Inch Gate Valve,
10-Inch Gate Valve,
24-Inch Butterfly Valve, installation only
Water Main Line Location Riser

- A. Work under these bid items shall conform to the requirements of Sections 2001 through 2021, as applicable, of the Technical Specifications and other applicable Technical Specifications contained herein.

Work under these bid items include cut in valves as shown on the plans.

- B. Measurement of these items will be for Each gate valve or water main location riser.
- C. Payment for installing these items will be made at the unit price named in the Proposal Summary, which price shall constitute full compensation for furnishing or transporting city furnished butterfly valves to the site, and placing the gate valve including thrust block and restraining devices, riser, valve box and cover, imported bedding, backfill, de-watering, stabilization, locating wire and tape, portland cement concrete collar, asphalt concrete, and all other work, labor, equipment and materials necessary for a complete installation.

As of 7/1.2011, the following questions have been received. Answers are provided in italics.

1. How long can the 10" water main on Saliman remain closed? There could be a problem with doing the tie in before the 24" is tested and disinfected.
The 10" water main in Saliman Road may be closed notice to proceed date through August 21, 2011.
2. What type of traffic control will the City allow for Robinson/Saliman intersection construction? Will we be allowed to close that intersection during working hours? Can it be closed for 24 hours?
Please see the traffic access revision in this addendum.
3. What deflection test is required on the casing pipe to drilled?
The deflection test is removed from this item, see revision to SP2.2.25 in this addendum.
4. How are the spandrels paid for on the valley gutters?
The valley gutters and pans are paid for under the PCC Concrete, 6-inch thickness with AGG Base bid item. See revision to SP 2.2. 10 in this addendum.
5. Bid Item BP.17 call for 5,000 square feet of PCC Concrete (6-Inch). Per our take off we can only find 976 square feet which is the commercial aprons. Can you tell us where the remaining quantity be located.
This question is addressed in this addendum.
6. I need help locating the specification for the casing spacers that go on the 24" FPVC in the directional drill. Can you tell me where to find it in the spec's, please.
This question is addressed in this addendum.