

PUD NO. 1 OF SKAGIT COUNTY

**JUDY RESERVOIR TO MOUNT VERNON TRANSMISSION PIPELINE
PHASE 2**

January 27, 2021

ADDENDUM NO. 4

To All Planholders and/or Prospective Bidders:

The following changes, additions, and/or deletions are hereby made a part of the project bid documents for the Judy Reservoir to Mount Vernon Transmission Pipeline Phase 2 and shall have the same effect as if set forth therein. Receipt of this Addendum must be acknowledged on your Bidder’s Proposal form. Failure to acknowledge receipt of this Addendum may result in your bid proposal being disqualified.

GENERAL CLARIFICATIONS

VOLUME 1 ITEMS – SPECIFICATIONS

A. PROPOSALS – 5 – Bid Item #53 shall be modified from what is shown below:

53	Furnish & Install Seismic Resistant Harness Couplings 198+05, 201+75, 205+50, & 209+25	4	EA	\$	\$
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to the following:

53	Furnish & Install Seismic Resistant Harness Couplings 149+40 and 154+20	2	EA	\$	\$
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Clarification: All other seismic resistant harness couplings will be paid for in the various furnish and install bid items (#34 through-#42) of the transmission line piping. These two are separated and stand-alone due to them being right at the transition point between two separate pipe wall thicknesses, therefore not being covered under the other bid items.

B. PROPOSALS – 5 – Bid Item #54

Clarification: All other seismic resistant double ball joint fittings will be paid for in the various furnish and install bid items (#34 through-#42) of the transmission line piping. These two are separated and stand-alone due to them being right at the transition point between two separate pipe wall thicknesses, therefore not being covered under the other bid items.

C. PROPOSALS – 7 – Bid Items #95 & 96

Delete the following quantities for bid items 95 and 96 as shown below:

95	Furnish, Place and Compact Hot Mix Asphalt Concrete for Final Patch and Driveway Restoration	482	TN	\$	\$
96	Furnish, Place, and Compact Hot Mix Asphalt Pavement Overlay	2,523	TN	\$	\$

Replace them with the following quantities as shown below:

95	Furnish, Place and Compact Hot Mix Asphalt Concrete for Final Patch and Driveway Restoration	276	TN	\$	\$
96	Furnish, Place, and Compact Hot Mix Asphalt Pavement Overlay	2,980	TN	\$	\$

D. 01025 – Replace ITEMS 39 & 40 with the revised versions as shown below:

ITEM 39. INSTALL 36" STEEL PIPE (CROSS COUNTRY)

- A. Measurement for payment for install 36" steel pipe (cross country) shall be based upon the number of linear feet of pipe actually installed outside of road right-of-way as determined by horizontal measurement along the pipe centerline.
- B. Payment for installing 36-inch steel pipe shall be made at the unit price per linear foot named in the Bid Schedule. Price shall constitute full compensation for all labor, materials and equipment required for pipeline alignment survey control, potholing, regrading, protection of existing water system, saw-cutting and asphalt removal, excavation, dewatering in the trench, pipe installation, joint assembly including ~~passholes~~, **fittings (less those covered under separate bid items)**, lining and coating repair, pipe laying, trenching, furnishing and placing bedding, backfilling and compaction, in accordance with requirements of the Contract Documents. The item shall also include compensation for all labor, material and equipment required for the placement of stockpiled topsoil and to haul and dispose of excess soil.
- C. Payment for installation of Steel Pipe at Nookachamps Creek Crossing (Item #41), East Fork Nookachamps Creek (Item #76), SR 9 Crossing (Item #75), and Clear Lake Tributary Crossing (Item #81) are not included in this Item.

ITEM 40. INSTALL 36" STEEL PIPE (ROAD RIGHT-OF-WAY)

- A. Measurement for payment for install 36" steel pipe (road right-of-way) shall be based upon the number of linear feet of pipe actually installed within road Right-of-Way as determined by horizontal measurement along the pipe centerline.
- B. Payment for installing 36-inch steel pipe shall be made at the unit price per linear foot named in the Bid Schedule. Price shall constitute full compensation for all labor, materials and equipment required for pipeline alignment survey control; surveying of pre-construction conditions to support restoration activities; potholing; regrading, protection of existing water system, incidental road sign, mailbox and guardrail removal and replacement; saw cutting and asphalt removal; excavation; regrading, dewatering in the trench; pipe installation; joint assembly including pass holes, **fittings (less those covered under separate bid items)**, lining and coating repair; pipe laying; trenching; furnishing and placing bedding; backfilling and compaction in accordance with requirements of the Contract Documents. The item shall also include compensation for all labor, material and equipment required for the placement of stockpiled topsoil and to haul and dispose of excess soil.
- C. Payment for installation of Steel Pipe at Nookachamps Creek Crossing (Item #41), East Fork Nookachamps Creek (Item #76), SR 9 Crossing (Item #75), and Clear Lake Tributary Crossing (Item #81) are not included in this Item.

E. 01025 – Replace ITEMS 53 & 54 with the revised versions as shown below

**ITEM 53. FURNISH AND INSTALL SEISMIC RESISTANT HARNESS COUPLINGS
STATIONS ~~198+05, 201+75, 205+50, & 209+25~~ 149+40 & 154+20**

MEASUREMENT AND PAYMENT

Judy Reservoir to Mount Vernon
Transmission Pipeline Phase 2

01025 - 11

Issued for Bidding
November 23, 2020



- A. Measurement for furnish and install seismic restraint harness couplings shall be per each based upon the number of seismic resistant harness couplings installed.
- B. Payment for furnish and install seismic restraint harness couplings shall be made at the unit price named in the Bid Schedule. Price shall constitute full compensation for furnishing and installing each seismic resistant harness coupling **not already covered in ITEMS 34-42.**

**ITEM 54. FURNISH AND INSTALL SEISMIC RESISTANT DOUBLE BALL JOINT
FITTINGS STATIONS 212+93 AND 213+53**

- A. Measurement for furnish and install seismic resistant double ball joint fittings shall be per each based upon the number of seismic resistant double ball joint fittings installed.
- B. Payment for furnish and install seismic resistant double ball joint fittings shall be made at the unit price named in the Bid Schedule. Price shall constitute full compensation for furnishing and installing each seismic resistant double ball joint fitting **not already covered in ITEMS 34-42.**

F. 01601 – Reference 01601 – 2.3.C. – Delete the period after May 8, 2020 and add the following: “and January 20, 2021.”

G. 02150 – Delete 02150 – 3.2.D.2 & 3 as shown below:

- ~~2. Test fillet welds of field single welded lap joint using the magnetic particle testing procedures and acceptance criteria set forth in AWS D1.1, Section 6.14.5, Table 6.1.~~
- ~~3. Test field butt welds by 100 percent radiographic of the first two welded pipe joints, and 10 percent of the joints thereafter using methods and acceptance criteria in API Standard 1104. If visual inspection notes questionable welding or a test fails, then testing shall be on a continuous basis until acceptable welds are accomplished. Repair welds deficient in size by adding weld metal.~~

H. 15202 – BUTTERFLY VALVES

- 1. Delete 15202-2.1.C.1.b as shown below:

C. Materials:

1. Valve bodies:

- a. ASTM A126, Class B or ASTM A536 Grade 65-45-12 ductile iron.
- b. ~~Wafer valves may be constructed of ASTM A48, Class 40 cast iron.~~

2. Revise 15202-2.1.D.2.a & delete 15202-2.1.D.2.b as shown below:

D. Design Requirements:

1. Seat type: Resilient.

2. Body type:

- a. ~~Wafer Lug (laying length may vary from AWWA C504).~~ **Short body with flanged ends.**
- b. ~~Equip wafer type with fully tapped anchor lugs drilled per ASME B16.5.~~

VOLUME 2 ITEMS – APPENDICES

I. APPENDIX F – Drone video of water transmission line alignment.

Add the following you tube address to Appendix F which shows the updated drone flight flown on January 20, 2021.

Drone Video of Water Transmission Pipeline Alignment (01/20/2021)

<https://www.youtube.com/watch?v=BUHIkpBcQhc>

Clarification: This updated Drone video was flown after the September 2020 Drainage District Maintenance Project Completion which indicates improvements to the surface water levels between Clear Lake and Beaver Lake.

VOLUME 3 ITEMS – PLANS

02C157 – Scale is incorrect. Delete the incorrect numbers (0, 20, 40, 80) on the scale in feet bars on both the ESC PLAN and RESTORATIONS PLAN. Replace them with the correct numbers of (0, 10, 20, 40).

04C005 – Add the following note to Detail 5 on 04C005:

“This detail applies to the following planting zones indicated on the 02C and 04C drawings: Wetland Forest Mix, Scrub-Shrub Planting, Upland Forest Mix 1, Upland Forest Mix 2 & Upland Shrub Mix.”

05C214 – Revise the following note: "PROFILE GRADE AND PIVOT POINT" and replace it with "PROFILE GRADE".

07C003 – The following shall be added to the bottom of each detail on 07C003 to better clarify which details correspond to which area and which bid item:

Detail 4/07C003 – Bid Item #95 – Wayward Ext to Schulberg (02C144) & Taylor Tenderholt Driveway (02C153)

Detail 5/07C003 – Bid Item #95 – Path between the 7th Day Adv. Church & College Way (02C101)

Detail 6/07C003 – Bid Item #95 – Fox Rd. (02C136 & 02C164), Wayward Way (02C144), Timber Ln. (02C151) and Austin Rd. (02C163)

Detail 7/07C003 – Bid Item #96 – Beaver Lake Rd. (02C134 & 02C164) and Old Day Creek Rd. (02C153-02C157)

07C004 – The following shall be added to the bottom of each detail on 07C004 to better clarify which details correspond to which area and which bid item:

Detail 1/07C004 – Bid Item #96 – College Way (SR-538) (02C101)

Detail 2/07C004 – Bid Item #96 – 7th Day Adv. Church (02C101)

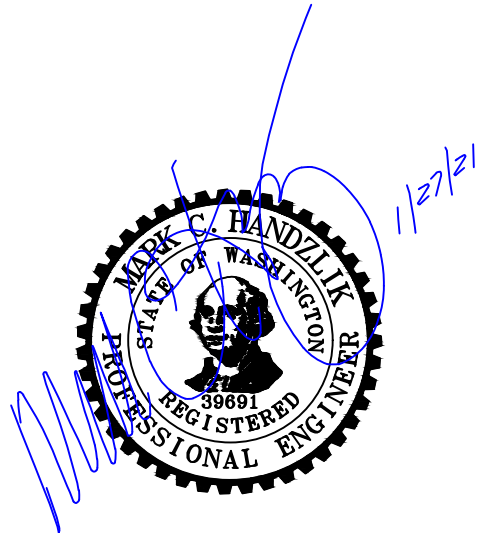
OTHER ITEMS

Addendum No. 4 - BIDDER QUESTIONS AND ANSWERS Attached hereto:

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 4 in the Bid Form. Bid Forms submitted without acknowledgement will be considered in non-conformance.

This Addendum consists of these five (5) pages and three (3) pages of attachments for a total of eight (8) pages.

Mark Handzlik, P.E.
PUD No.1 of Skagit County



Judy Reservoir to Mount Vernon Transmission Line - Phase 2 - Pre-bid & Post Pre-Bid Meeting Question Log

Note: The cut off for questions was Friday January 22, 2021 at 5:00 PM per Add. No. 3

Addendum

Question	Responsible	Response	
<p>In the Civil Symbology Legend, there is Asphalt Overlay, and Asphalt Overlay II, noted with their respective layer details. I am having a hard time locating where in the restoration sheets the Asphalt Overlay II areas are. I am seeing a small portion of Fox Rd. on SHT 02C164 with Overlay II hash marks, but not on any other Restoration Sheets.</p> <p>With those layer details provided, it seems it is up to the bidder to decipher which quantities fall under bid item 95 (driveway restoration) and bid item 96 (Asphalt Overlay). Reviewing the plan sheets I believe there may be a scale error on sheet 02C157, the area for asphalt is doubled when using the scale noted on the plan sheet vs. all other restoration areas prior. Using the scale noted, Station to Station length is 200 LF not the standard 100 LF.</p> <p>To reference the restoration detail discrepancies please review sheets 02C152-02C157 For Old Day Creek Rd. I do not see any layer details for Asphalt Overlay II on these sheets. When referring to the Pavement Restoration Details is states that there is both Asphalt Overlay and Asphalt Overlay II sections in this area....please clarify</p>	District	<p>In the Civil Symbology Legend, there is Asphalt Overlay, and Asphalt Overlay II, noted with their respective layer details. I am having a hard time locating where in the restoration sheets the Asphalt Overlay II areas are. I am seeing a small portion of Fox Rd. on SHT 02C164 with Overlay II hash marks, but not on any other Restoration Sheets. - <i>You are correct in that is the only location that Asphalt Overlay II is shown is on 02C164 . It is shown here to denote the line between the two separate paving sections. One for Fox Rd. and one for Beaver Lake Rd. as referenced on sheet 02C164 via the restoration notes.</i></p> <p>With those layer details provided, it seems it is up to the bidder to decipher which quantities fall under bid item 95 (driveway restoration) and bid item 96 (Asphalt Overlay). <i>This will be clarified via Addendum.</i></p> <p>Reviewing the plan sheets I believe there may be a scale error on sheet 02C157, the area for asphalt is doubled when using the scale noted on the plan sheet vs. all other restoration areas prior. Using the scale noted, Station to Station length is 200 LF not the standard 100 LF. <i>You are correct. A correction will be included in the Addendum.</i></p> <p>To reference the restoration detail discrepancies please review sheets 02C152-02C157 For Old Day Creek Rd. I do not see any layer details for Asphalt Overlay II on these sheets. When referring to the Pavement Restoration Details is states that there is both Asphalt Overlay and Asphalt Overlay II sections in this area....please clarify - <i>See previous response above.</i></p>	4
<p>On Sheet 04C004 the tables show the quantity of restoration totaling 40 acres. We have performed a takeoff of the disturbed areas that are identified on the plans and they show 59 acres of restoration. The bid items for the restoration are all Lump Sum. Does the District expect the contractor to include 59 acres of restoration, knowing the quantity of restoration is greater than what is represented on Sheet 04C004? Or is it expected that the contractor include the 40 acres of restoration and a contract adjustment will be made if the final restoration quantities differ from those represented on Sheet 04C004?</p>	District	<p>The restoration bid item quantities as shown on sheet 04C004 are accurate and reflect the individual landscape restoration types based on the symbols and their associated hatching. The optional construction areas are not included in these quantities. They are paid for in bid items 22, 23 & 24. Pasture Seed Mix shall be used for Optional Construction Area No. 1 & 3. Wetland Seed Mix shall be used for Optional Construction Area No. 2.</p>	4
<p>Wanted to bring section 15202-2.1-C.1.b and 15202-2.1-D.2 to our attention regarding the specified Wafer Lug. Wafer lugs are specifications not flanged butterfly valves.</p>	District	<p>This will be clarified via Addendum.</p>	4
<p>On Sheet 07C023 Note 9 specifies that 3 – 1” Innerducts are to be installed in the conduit for the future fiber optic line. There is no other mention of innerduct elsewhere in the plans and specifications. Please confirm that the innerducts are required and requirements for the materials used in the innerducts.</p>	District	<p>Note #9 on 07C023 will be deleted per Addendum No. 3 which deletes the 3 ea - 1" innerducts. Fiber is not part of this contract. Just pullstrings within the 4-inch conduit between vaults</p>	4
<p>1) The AWWA specifications for installation of 4” and larger pipe requires that the pipe be assembled and welded in the trench. Will the District allow the pipe to be assembled, and welded on the bank at the top of the trench and then hoisted into place?</p>	District	<p>No!</p>	4
<p>2) On Sheet 05C214, there is a note on the cross section at the centerline of the section calling out the “profile grade and pivot point”. There isn’t any crossfall shown on this section. We assume that this note should read “profile grade”. Please confirm that our assumption is correct and that there is no crossfall.</p>	HDR	<p>You are correct! "PROFILE GRADE AND PIVOT POINT" will be revised via Addendum to read "PROFILE GRADE".</p>	4
<p>3) There isn’t a finish called out on the precast deck panels. It is assumed that a broom finish will be acceptable. Please confirm that this is correct.</p>	District	<p>Yes!</p>	4
<p>Will a revised BID SCHEDULE be issued to correct bid quantities addressed in Addenda?</p>	District	<p>The bidder will need to revise the Bid Quantities per Addendum. No revised Schedule will be issued.</p>	4

•Plan sheet 210 of 338, detail 5 “Planting Area Soil Preparation Sequence of Work” states 3 inches of soil amendment to be incorporate 10 inches into subgrade and then placement of 3” of wood chip mulch. Is it the PUD’s intention that the entire 5.22 acres of planting zones listed on plan sheet 209 receive 3 inches of soil amendment incorporated 10 inches into subgrade and then placement of 3” of wood chip mulch? Or is detail 5 on plan sheet 210 only applicable to smaller isolated areas?	HDR	The following note to Detail 5 on 04C005 will be added via Addendum: “This detail applies to the following planting zones indicated on the 02C and 04C drawings: Wetland Forest Mix, Scrub-Shrub Planting, Upland Forest Mix 1, Upland Forest Mix 2 & Upland Shrub Mix.”	4
Is there a condition of award attached to this project? The MWBE and DBE language isn’t clear.	District	Refer to Addendum No. 2 which included the reissuing of specification section 00950 - STATE AND FEDERAL FUNDING REQUIREMENTS. This addresses and clarifies what is and what is not required. Also, refer to Addendum No. 1 which removes and replaces section 1-03.8 Award and Execution of Contract.	4
1.Ductile iron pipe – Per section 15062 ductile iron pipe is referenced for the project for up to 64” diameter. Similar the fittings are clearly defined for the pipe to be restrained mechanically without the use of set screws or gripping wedges as to TR-Flex and FlexRing. Per the drawings, sheets 07C011 Standard details (detail 1) and 07C0113 Standard details (detail A) show the connection of welded tangential outlets for 36” ductile iron pipe as well as 36” steel pipe. The price of steel (domestic especially) has increased in the last three months. US hot rolled steel surpassed the forecasted \$757.00 per ton in November and is expected to reach \$900.00 per ton in the first quarter of 2021. Bid items 35-38 Furnish 36” Steel Pipe, ___” wall with lining and coating references the cost of the new pipeline to be installed. Would there be an additional bid item to reference DI pipe to be utilized as the transmission mainline pipe material? With the use of DI pipe, station 82+00 to 283+80 would no longer require a class E flange to meet working pressure rating of 250 PSI as ductile iron pipe mechanically restrained is already rated for 250-350 PSI working pressure. This would also allow the contractor to use the same bolt kits throughout the project as opposed to differing bolt lengths between the two flange class thicknesses.	District	There will be no additional bid item to reference DI pipe to be utilized as the transmission mainline pipe material. The mainline pipe material shall be welded steel as specified.	4
2.Bid Item 53 Furnish & Install Seismic Resistant Harness Couplings – The bid proposal notes the unit price for installation of harness couplings at STA 198+05, 201+75, 205+50 and 213+53. The measurement and payment also states full compensation for the furnish and install of bolted couplings at these stations, however, there is also two more additional bolted harnesses located at STA 149+40 and 154+20. Where would the measurement and payment for these two harnesses be covered?	District	This will be clarified via Addendum	4
3.Similar to bid item 53, Bid Item 54 Furnish Seismic Resistant Double Ball Joint Fittings, this bid item measurement and payment is specific to stations STA 212+93 and 213+53. Where is the measurement and payment for the additional double ball expansion joints located at STA 169+84 and 172+37.	District	This will be clarified via Addendum	4
Bid Item 76 Furnish and Install Bridge Structure and Piping notes it starts at STA 169+96 and ends at STA 172+24. This does not include the two additional flexible expansion joints.	District	This will be clarified via Addendum	4

<p>Is there an option of adding an alternate schedule C to the bid proposal for bid items 34-40 & 42? This would allow the district to review the options and prices of both steel and ductile iron without having to re-issue drawings? The HDD could still be welded steel under the Nookachamps Creek, but would have a flange connection with insulating gasket kits on either side. Or flexring ductile iron pipe could meet all needed requirements for this installation. I would also ask if the ductile iron spec could include the note of having a zinc coating to the pipe. The specifications already call for the ductile iron pipe to be poly encased. If the ductile iron pipe for this project was zinc coated and V-bio encased (v-bio includes an anti-microbial and anti-corrosion material) this eliminate the need for the cathodic protection system for the majority of the project. Only the casing pipe and HDD would potentially need cathodic protection. If ductile iron pipe was allowed, this would also eliminate the requirement for Bid Item 86 Furnish and Install Manway. With DI pipe utilized, there would be no need to re-enter the pipe to install the field applied polyurethane lining on field welded joints.</p>	District	No!	4
<p>One other point that was brought up from a ductile iron manufacturer, was that due to current steel demands, ductile iron pipe could be manufactured and delivered in a much shorter lead time than the noted steel pipe. I have attached the following ductile iron specifications that would be an optional addition to the current special provisions section 15062. Please note that flexring ductile iron meets all needed requirements for this project, including the horizontal directional drill portion.</p>	District	The decision to go with cathodically protected welded steel for the transmission line as currently specified was made early on in the design process.	4
<p>Is a licensed electrician required to install the underground fiber line (UGF) and Hand Holes (HH) on this project?</p>	District	Yes. We received clarification from L&I on a previous project which does require all of the District's fiber optic conduit to be installed by a licensed electrician as stated in the bid documents.	4
<p>Will an L & I inspection be required for the UGF?</p>	District	A permit and L&I inspection will be required.	4