



INVITATION TO BID #2018-119
 Bridge Approach Repair:
 Clackamas River Bridge and Clear Creek Bridge
 ADDENDUM NUMBER 2
 January 3, 2019

On November 27, 2018, Clackamas County (“County”) published Invitation to Bid #2018-119 (“BID”) and amended with Addendum #1 on December 31, 2018. The County has found that it is in its interest to amend the BID through the issuance of this Addendum #2. Except as expressly amended below, all other terms and conditions of the original BID and subsequent Addenda shall remain unchanged.

- 1. Remove and replace BID SCHEDULE 'A' CLACKAMAS RIVER (SPRINGWATER ROAD) CARVER BRIDGE APPROACHES with the attached BID SCHEDULE 'A' titled CLACKAMAS RIVER (SPRINGWATER ROAD) CARVER BRIDGE APPROACHES, January 3, 2019, Addendum #2.**

***Note the following changes and additions are made to the Bid Schedule:**
 (Bid Items were placed in the section that corresponds with the Bid Item Spec. No. 00587 “Bridge Rails” and three bid items were created from one bid item for clarification.)

The following changes are made to the Project Bid Items:

a. Added items:

<u>Number</u>	<u>Item</u>	<u>Unit</u>	<u>Quantity</u>
29.	Concrete Rail Cleaning Refinishing and Repainting.	LS	ALL
30.	Galvanized dual Railing Cleaning Refinishing	LF	600
31.	Complete Bolting as Needed	LS	ALL

- 2. Remove and replace BID SCHEDULE 'B' CLEAR CREEK (SPRINGWATER ROAD) BRIDGE APPROACHES with the attached BID SCHEDULE 'B' titled CLEAR CREEK (SPRINGWATER ROAD) BRIDGE APPROACHES, January 3, 2019, Addendum #2.**

The following changes are made to the Project Bid Items:

a. Added item:

<u>Number</u>	<u>Item</u>	<u>Unit</u>	<u>Quantity</u>
10.	Removal of Structures and Obstructions	LS	1

A Bid **not** including these new Bid Sheets **will be rejected as non-responsive.**

- 3. Remove and replace SECTION 00587- BRIDGE RAILS of the Special Provisions for Highway Construction with the attached Section 00587 titled Addendum #2, January 3, 2019 Clackamas River (S Springwater Rd) Bridge and Clear Creek (S Springwater Rd) Bridge Approach Repair Construction, Page 51.**
- 4. Remove and replace SECTION 02010 – PORTLAND CEMENT, SECTION 02050- CURING MATERIALS, SECTION 02190- PRESERVATIVE TREATMENT OF LUMBER, SECTION 02210- COATING MATERIALS FOR TIMBER AND CONCRETE, SECTION**

02320- GEOSYNTHETICS, SECTION 02440- JOINT MATERIALS, of the Special Provisions for Highway Construction with the attached Sections 02010, 02050, 02190, 02210, 02320, and 02440, titled Addendum #2, January 3, 2019 Clackamas River (S Springwater Rd) Bridge and Clear Creek (S Springwater Rd) Bridge Approach Repair Construction, Page 62, and 63.

A Bid not including these new pages will be rejected as non-responsive.

These changes will be included in the Contract for this Project. It is understood that your Bid will be submitted accordingly.

Attachments:

New BID SCHEDULE 'A' titled CLACKAMAS RIVER (SPRINGWATER ROAD) CARVER BRIDGE APPROACHES, January 3, 2019, Addendum #2.

New BID SCHEDULE 'B' titled CLEAR CREEK (SPRINGWATER ROAD) BRIDGE APPROACHES, January 3, 2019, Addendum #2.

Special Provisions for Highway Construction- Clackamas River (S Springwater Rd) Bridge and Clear Creek (S Springwater Rd) Bridge Approach Repair Construction Pages 51, 62, and 63, Addendum #2, January 3, 2019.

End of Addendum #2

BID SCHEDULE 'A' CLACKAMAS RIVER (SPRINGWATER ROAD) CARVER BRIDGE APPROACHES

SPRINGWATER RD AT CLACKAMAS RIVER BRIDGE AND CLEAR CREEK BRIDGE APPROACH CONSTRUCTION						
Spec No.	Item No.	ITEM DESCRIPTION	UNIT	AMOUNT	UNIT PRICE	TOTAL PRICE
MOBILIZATION AND TRAFFIC CONTROL						
0196	1	EARLY COMPENSATION BONUS FOR WORKSITE ZONE A (MAX POSSIBLE)	FA	1	-	\$60,000.00
0196	2	EXTRA WORK AS AUTHORIZED	FA	1	-	\$35,000.00
0210	3	MOBILIZATION	LS	ALL		
TRAFFIC CONTROL						
0225	4	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LS	ALL		
0225	5	STRIPE REMOVAL	FOOT	1200		
0225	6	PORTABLE CHANGEABLE MESSAGE SIGNS (To be used for both work sites throughout the project)	EACH	3		
0225	7	FLAGGERS STATION LIGHTING	EACH	3		
EROSION CONTROL						
0280	8	EROSION CONTROL	LS	ALL		
0280	9	MATTING, TYPE C	SQYD	100		
0280	10	CHECK DAM, TYPE 1	EACH	10		
0280	11	INLET PROTECTION, TYPE 3	EACH	7		
0280	12	SEDIMENT BARRIER, TYPE 8	FOOT	100		
0290	13	POLLUTION CONTROL PLAN	LS	ALL		
ROADWORK						
0305	14	CONSTRUCTION SURVEY WORK	LS	ALL		
0310	15	REMOVAL OF PIPES	FOOT	40		
0310	16	REMOVAL OF SURFACINGS	LS	ALL		
0310	17	ASPHALT PAVEMENT SAW CUTTING	FOOT	75		
0310	18	REMOVAL AND DISPOSAL OF EXISTING SILT/WORK FENCING	LS	ALL		
0320	19	CLEARING AND GRUBBING	LS	ALL		
0330	20	GENERAL EXCAVATION (STA14+67 - 17+90)	CUYD	850		
0330	21	GENERAL EXCAVATION (Existing Staging Area)	CUYD	400		
0330	22	GENERAL EXCAVATION (Asphalt Surfacings & Agg Sta 7+85 - 10+00)	CUYD	100		
0350	23	SUBGRADE GEOTEXTILE (TYPE II GEOGRID)	SY	900		
DRAINAGE AND SEWERS						
0445	24	12 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	30		
0470	25	CONCRETE INLETS, TYPE GB-2	EACH	1		
0470	26	REPLACEMENT AND ADJUSTMENT OF EXISTING CATCH BASIN TOP / RIM	EACH	3		
0490	27	ADJUSTING CATCH BASINS	EACH	1		
0490	28	CONNECTION TO EXISTING STRUCTURES	EACH	1		
STRUCTURES						
0587	29	CONCRETE RAIL CLEANING REFINISHING AND REPAINTING (4,400' APPROX)	LS	ALL		
0587	30	GALVANIZED DUAL RAILING CLEANING REFINISHING	LF	600		
0587	31	COMPLETE BOLTING AS NEEDED	LS	ALL		

Spec No.	Item No.	ITEM DESCRIPTION	UNIT	AMOUNT	UNIT PRICE	TOTAL PRICE
BASES						
0620	32	COLD PLANE PAVEMENT REMOVAL, 0 - 3 INCH DEEP	SQYD	1,050		
0620	33	COLD PLANE PAVEMENT REMOVAL, 3 - 6 INCH DEEP	SQYD	400		
0640	34	AGGREGATE BASE	TON	520		
WEARING SURFACES						
0744	35	LEVEL 3, 1/2 INCH DENSE HMAC MIXTURE (Base /Leveling)	TON	650		
0744	36	LEVEL 3, 1/2 INCH DENSE HMAC MIXTURE (Wearing Course)	TON	875		
0749	37	EXTRA FOR ASPHALT APPROACHES	EACH	1		
0749	38	EXTRA FOR ASPHALT WALKS	SQFT	120		
0749	39	EXTRA FOR PEDESTRIAN LANDINGS	EACH	1		
0759	40	CONCRETE CURBS, STANDARD CURB	LF	90		
0759	41	CONCRETE WALKS	SQFT	680		
0759	42	RETROFIT CONCRETE SIDEWALK RAMPS	EACH	1		
0759	43	TRUNCATED DOMES ON NEW SURFACES	EACH	4		
0759	44	EXTRA FOR NEW SIDEWALK RAMPS	EACH	4		
PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES						
0851	45	STRIPE REMOVAL	FOOT	2400		
865	46	THERMOPLASTIC, EXTRUDED OR SPRAYED, SURFACE, NON-PROFILED	FOOT	7,100		
0867	47	PAVEMENT LEGEND, TYPE AB: ARROWS	EACH	4		
0867	48	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE STENCIL	EACH	4		
0867	49	PAVEMENT BAR, TYPE AB	SQFT	26		
0905	50	REMOVE AND REINSTALL EXISTING SIGNS	LS	ALL		
0910	51	WOOD SIGN POSTS	FBM	10		
0930	52	PERFORATED STEEL SQUARE TUBE SIGN SUPPORTS	LS	ALL		
0940	53	TYPE "R" SIGNS IN PLACE	SQFT	13		
0940	54	TYPE "G2" SIGNS IN PLACE	SQFT	14		
0990	55	DETECTOR LOOP INSTALLATION, SPRINGWATER RD @ HWY 224	LS	ALL		
RIGHT-OF-WAY DEVELOPMENT AND CONTROL						
1030	56	PERMANENT SEEDING, NATIVE (HYDROSEEDING)	ACRE	0.4		
1030	57	PERMANENT SEEDING, LAWN (HYDROSEEDING)	ACRE	0.2		
1040	58	TOP SOIL	CY	140		

PROPOSED COST BID SCHEDULE 'A' _____
(Numerically)

PROPOSED COST BID SCHEDULE 'A' _____
(Written in Words)

COMPANY NAME _____

AUTHORIZED SIGNATURE _____

BID SCHEDULE 'B': CLEAR CREEK (SPRINGWATER ROAD) BRIDGE APPROACHES

SPRINGWATER RD AT CLACKAMAS RIVER BRIDGE AND CLEAR CREEK BRIDGE APPROACH CONSTRUCTION						
Spec No.	Item No.	ITEM DESCRIPTION	UNIT	AMOUNT	UNIT PRICE	TOTAL PRICE
MOBILIZATION AND TRAFFIC CONTROL						
0196	1	EXTRA WORK AS AUTHORIZED	FA	1	-	\$20,000.00
0210	2	MOBILIZATION	LS	ALL		
TRAFFIC CONTROL						
0225	3	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LS	1		
0225	4	FLAGGERS STATION LIGHTING	EACH	3		
EROSION CONTROL						
0280	5	EROSION CONTROL	LS	1		
0280	6	SEDIMENT BARRIER, TYPE 8	FOOT	640		
0290	7	POLLUTION CONTROL PLAN	LS	1		
ROADWORK						
305	8	CONSTRUCTION SURVEY WORK	LS	1		
0310	9	ASPHALT PAVEMENT SAW CUTTING	FOOT	290		
0310	10	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1		
331	11	12 INCH SUBGRADE STABILATION	SY	50		
334	12	PREPARATION OF SHOULDERS	LS	1		
350	13	SUBGRADE GEOTEXTILE (TYPE II GEOGRID)	SY	620		
BASES						
0620	14	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	SQYD	1,400		
0620	15	COLD PLANE PAVEMENT REMOVAL, 4 INCH DEEP	SQYD	500		
0620	16	COLD PLANE PAVEMENT REMOVAL AND/OR EXCAVATION, 9 - 23 INCH DEEP	SQYD	65		
0620	17	COLD PLANE PAVEMENT REMOVAL AND/OR EXCAVATION, 26 INCH DEEP	SQYD	65		
0620	18	COLD PLANE PAVEMENT REMOVAL AND/OR EXCAVATION, 23 - 31 INCH DEEP	SQYD	230		
0620	19	COLD PLANE PAVEMENT REMOVAL AND/OR EXCAVATION, 26 - 34 INCH DEEP	SQYD	275		
0640	20	AGGREGATE SHOULDERS	TON	550		
0640	21	AGGREGATE BASE	TON	450		
WEARING SURFACES						
0744	22	LEVEL 3, 1/2 INCH DENSE HMAC MIXTURE @ 2" DEEP (Wearing Course)	TON	630		
0744	23	LEVEL 3, 1/2 INCH DENSE HMAC MIXTURE @ 0-10" DEEP (Base/Leveling Course)	TON	550		
PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES						
810	24	31 INCH GUARDRAIL, TYPE 2A	FT	312.5		
810	25	31 INCH GUARDRAIL, TYPE 3	FT	38		
810	26	GUARDRAIL TERMINALS, NON-FLARED	EA	2		
810	27	GUARDRAIL ANCHORS, TYPE 1 MODIFIED	EA	2		
810	28	GUARDRAIL END PIECES, TYPE B	EA	1		
810	29	EXTRA FOR 8 FOOT POSTS	EA	40		
810	30	GUARDRAIL TRANSITION	EA	3		
810	31	EXTRA FOR HAND DUG GUARDRAIL POST HOLES	EA	12		
820	32	REMOVE AND REINSTALL CONCRETE BARRIER	LS	1		
865	33	THERMOPLASTIC, EXTRUDED OR SPRAYED, SURFACE, NON-PROFILED	FOOT	11,000		

BID SCHEDULE 'B': CLEAR CREEK (SPRINGWATER ROAD) BRIDGE APPROACHES

SPRINGWATER RD AT CLACKAMAS RIVER BRIDGE AND CLEAR CREEK BRIDGE APPROACH CONSTRUCTION						
Spec No.	Item No.	ITEM DESCRIPTION	UNIT	AMOUNT	UNIT PRICE	TOTAL PRICE
867	34	PAVEMENT BAR, TYPE AB	SQFT	70		

PROPOSED COST BID SCHEDULE 'B' _____
(Numerically)

PROPOSED COST BID SCHEDULE 'B' _____
(Written in Words)

PROPOSED COST BID SCHEDULES 'A' AND 'B' _____
(Numerically)

PROPOSED COST BID SCHEDULES 'A' AND 'B' _____
(Written in Words)

COMPANY NAME _____

AUTHORIZED SIGNATURE _____

SECTION 00587 - BRIDGE RAILS

Comply with Section 00587 of the Standard Specifications modified as follows:

Add the following subsection:

00587.20 Working Drawings – For metal rails the previous stamped drawings will be provided upon request.

00587.42 Concrete Rails – Modify this subsection as follows:

Surface Finish – Replace this paragraph with the following paragraph:

- Bridge concrete railing was finished and painted, however light surface /cosmetic damage has occurred and will need to be refinished to match. All of this concrete rail will need cleaning (pressure washing at a minimum) and repainting. (From the top outside edge to the bottom inside edge where it joins to the sidewalk). Use paint meeting the specifications of 02210.10.
- The existing galvanized railing will require adjustment and completion of bolting specifically at the four ends of railing where the railing joins the concrete rail ends. In addition supply missing bolts, washers and align and secure rail ends to concrete
- Existing Dual Galvanized rail will require removal of overspray paint, removal of surface rust and field clod re-galvanization. Use cold galvanization meeting specification 2530.71 and/or found in the QPL under the same specification.

00587.90 Payment - The accepted quantities of work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

	Pay Item	Unit of Measurement
(a)	Concrete Rail Cleaning Refinishing and Repainting.	LS
(b)	Galvanized dual Railing Cleaning Refinishing	LF
(b)	Complete Bolting as Needed	LS

Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

Clackamas River (S Springwater Rd) Bridge and
Clear Creek (S Springwater Rd) Bridge Approach Repair Construction

SECTION 02010 - PORTLAND CEMENT

Comply with Section 02010 of the Standard Specifications modified as follows:

02010.10(b) Specifications - Replace this subsection, except the subsection number and title, with the following:

Portland cement shall conform to the requirements of AASHTO M 85 or ASTM C150 for low alkali cement except as follows:

- Cement shall have a total alkali content (sodium and potassium oxide calculated as $\text{Na}_2\text{O} + 0.658 \text{K}_2\text{O}$) not exceeding 0.60 percent.
- All cement types shall contain a maximum of 8 percent tricalcium aluminate (C_3A).
- The time-of-setting tests will be by either the Gillmore test or the Vicat test.
- Types I and II maximum fineness (specific surface) as determined by AASHTO T153 air permeability test shall be $430 \text{ m}^2/\text{kg}$. If $\text{C}_3\text{S} + 4.75 \text{ C}_3\text{A}$ is less than or equal to 90, the fineness criteria does not apply.

02010.20 Blended Hydraulic Cement - Replace this subsection, except for the subsection number and title, with the following:

Blended hydraulic cement shall be either Type IS-portland blast-furnace slag cement, Type IP-portland-pozzolan cement, Type IL-portland-limestone cement, or Type IT-ternary blended cement according to AASHTO M 240.

Furnish blended hydraulic cement from the QPL.

SECTION 02050 - CURING MATERIALS

Comply with Section 02050 of the Standard Specifications modified as follows:

02050.00 Scope - Replace this subsection, except for the subsection number and title, with the following:

This Section includes the requirements for liquid compounds, polyethylene films, and curing blankets used to cover concrete and other surfaces to retain moisture and to cure.

02050.10 Liquid Compounds - Replace this subsection, except for the subsection number and title, with the following:

Furnish liquid membrane-forming curing compounds from the QPL and meeting the requirements of ASTM C309, except that testing will be done according to ODOT TM 721.

All compounds shall be Type 1-D or Type 2, Class A or B.

Only Type 2, Class B resins will be allowed for the following concrete pavement applications:

- Plain concrete pavement repair.
- Continuously reinforced concrete pavement.
- Plain concrete pavement.
- Reinforced concrete pavement repair.

Before using liquid compounds, submit one quart samples of each lot for testing, except samples are not required for commercial grade concrete.

02050.40 Liquid Evaporation Reducer Compounds - Delete this subsection.

Clackamas River (S Springwater Rd) Bridge and
Clear Creek (S Springwater Rd) Bridge Approach Repair Construction

SECTION 02190 - PRESERVATIVE TREATMENT OF LUMBER

Comply with Section 02190 of the Standard Specifications modified as follows:

02190.20 Drying Time - Replace this subsection with the following subsection:

02190.20 Drying After Treatment - When using waterborne preservatives, as defined in AWPA P5, dry items according to AWPA T1, Section 7.

During the drying period and until the treated items are installed on the Project, separate each layer of treated items using spacers that are at least 1/2 inch thick.

The maximum moisture content shall be 19 percent prior to installation.

Collect all spacers and other treated wood waste from the construction site and dispose of them according to 00290.20.

SECTION 02210 - COATING MATERIALS FOR TIMBER AND CONCRETE

Comply with Section 02210 of the Standard Specifications modified as follows:

02210.10 Coating Materials for Concrete - Replace the text of this subsection with the following:

Furnish coatings complying with the following:

(a) System One Primer:

Generic Type:	Single-component, moisture-cured polyurethane
Vehicle Type:	Moisture-cured polyurethane
Solids:	50% minimum by volume
Color:	Close conformance to ODOT Formula No. 300-74, concrete gray.

Color chips are available from the ODOT Materials Laboratory.

(b) System One Top Coating Material:

Generic Type	Single-component, moisture-cured, graffiti-resistant aliphatic polyurethane
Vehicle Type	Moisture-cured polyurethane
Solids	52% minimum by volume
Density	8.25 lb/gal minimum
Color	Clear

SECTION 02320 - GEOSYNTHETICS

Comply with Section 02320 of the Standard Specifications modified as follows:

02320.10(A)(2) Geogrids – Add the following –

- Geo grid materials shall meet or exceed the QPL requirements and specifications of TENSAR BX TYPE 2 GEOGRID - SUBGRADE REINFORCEMENT.

SECTION 02440 – JOINT MATERIALS

Comply with Section 02440 of the Standard Specifications modified as follows:

02440.15 Lubricant/Adhesive - Replace this subsection, except for the subsection number and title, with the following:

Furnish a lubricant/adhesive conforming to ASTM D4070 and according to the recommendations of the seal manufacturer.