



Oregon

Tina Kotek, Governor

Department of Transportation
Statewide Project Delivery Branch
Project Development Section
Project Controls Office
555 13th St NE
Salem, OR 97301

DATE: October 22, 2026

Addendum No. 3

TO: PLAN HOLDERS

PREPARED BY: Sean R. Triana ^{2026.10.22}
15:35:13 -07'00'
Sean Triana

APPROVED BY: Palo Giscombe ^{2026.10.22}
15:45:51 -07'00' P.E.
Palo Giscombe

FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

SUBJECT: I-84 (Westbound): Union Pacific Railroad Bridge (Hood River) Project
Columbia River Highway
Hood River County
Grading, Drainage, Structures, Paving, Signing, and Roadside Development
(Bids Closing November 19, 2026)

The following change is made to the Project Bid Booklet:

The following change is made to the Project Bid Items:

Deleted items:

<u>Number</u>	<u>Item</u>
1270	CSL Tests

Make a copy of and use the new attached Bid Schedule if submitting a paper Bid. If submitting an electronic Bid through BidExpress®, delete all prior downloaded bid files and use the Zip file available on BidExpress® by selecting "All Bid Files and Amendments" that includes the new updates in the attached Bid Schedule. A Bid **not** including this new Bid Schedule **will be rejected as non-responsive**.

The following changes are made to the Project Special Provisions:

1. Subsection 00330.42(c)(3) Embankment Slope Protection - The paragraph that begins with the words "Construct the outer..." is replaced with the following:

In addition to the requirements of 00330.01 and other requirements of this subsection, place an additional 3 to 6 inches of materials favorable for the germination of seed and growth of

grass onto the completed embankment slopes. Place materials in accordance with 01040.43(c).

2. Subsection 00195.11(d) Fuel Price Adjustment - Item "CSL TESTS" is deleted.
3. Section 00512 Drilled Shafts - This Section is replaced with Section 00512. See attachment for full text.

Make copies of the new attached Bid Schedule to replace the Bid Schedule in the Project Special Provisions.

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

st:PG

Attachments: New Bid Schedule
Replaced Special Provisions Section(s)

**OREGON DEPARTMENT OF TRANSPORTATION
BID SCHEDULE**

CONTRACT NO.: 15707 **PROJECT:** I-84 (WESTBOUND): UNION PACIFIC RAILROAD BRIDGE
(HOOD RIVER)
PROJECT KEY: 21683 **ADDENDUM NO.:** 3

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE	BID AMOUNT
			(IN FIGURES)	(IN FIGURES)

SECTION: 0001 TEMPORARY FEATURES AND APPURTENANCES

0010	0210-0100000A MOBILIZATION	ALL LUMP SUM		
0020	0221-0100000A TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	ALL LUMP SUM		
0030	0222-0102000J TEMPORARY SIGNS	1,505.00 SQFT		
0040	0222-0162000E SEQUENTIAL ARROW SIGNS	2.00 EACH		
0050	0222-0164000E PORTABLE CHANGEABLE MESSAGE SIGNS	2.00 EACH		
0060	0222-0167300E PORTABLE CHANGEABLE MESSAGE SIGNS, ROLLER MOUNTED	2.00 EACH		
0070	0222-0167500E RADAR SPEED TRAILER	1.00 EACH		
0080	0223-0168000T FLAGGERS	150.00 HOUR		
0090	0223-0168100T FLAGGER STATION LIGHTING	150.00 HOUR		
0100	0223-0169000E TRAFFIC CONTROL SUPERVISOR	75.00 EACH		
0110	0223-0172000T PILOT CARS	40.00 HOUR		
0120	0223-0175000T TOW TRUCK	330.00 HOUR		
0130	0224-0105000E TEMPORARY BARRICADES, TYPE III	16.00 EACH		

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ADDENDUM NO.: 3

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			(IN FIGURES)	(IN FIGURES)
0140	0224-0145000E TEMPORARY PLASTIC DRUMS	396.00 EACH		
0150	0225-0153000F TEMPORARY STRIPING	12,798.00 FOOT		
0160	0225-0154000F STRIPE REMOVAL	4,904.00 FOOT		
0170	0226-0119000E TEMPORARY BRIDGE CONNECTIONS	2.00 EACH		
0180	0226-0126100F TEMPORARY BARRIER	6,850.00 FOOT		
0190	0226-0134000E TEMPORARY IMPACT ATTENUATOR, NARROW SITE SYSTEM	2.00 EACH		
0200	0226-0137000E MOVING TEMPORARY IMPACT ATTENUATORS, NARROW SITE SYSTEM	3.00 EACH		
0210	0226-0138000E TEMPORARY IMPACT ATTENUATOR, TRUCK MOUNTED	2.00 EACH		
0220	0226-0141100E REFLECTIVE BARRIER PANELS	1,261.00 EACH		
0230	0226-0141300E REPAIR TEMPORARY IMPACT ATTENUATOR, NARROW SITE SYSTEM	1.00 EACH		
0240	0226-0141400E REPAIR TEMPORARY IMPACT ATTENUATOR, TRUCK MOUNTED	1.00 EACH		
0250	0226-0148000U MOBILE BARRIER	15.00 DAY		
0260	0231-0100000A CONSTRUCT AND REMOVE TEMPORARY ACCESS ROAD	ALL LUMP SUM		

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			(IN FIGURES)	(IN FIGURES)
0270	0245-0100000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LWB2 1154+37	ALL LUMP SUM		
0280	0245-0100000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LWB2 1164+00	ALL LUMP SUM		
0290	0245-0101000U BYPASS PUMP MONITORING	2.00 DAY		
0300	0280-0100000A EROSION CONTROL	ALL LUMP SUM		
0310	0280-0101000J PLASTIC SHEETING	2,000.00 SQYD		
0320	0280-0105010J MATTING, TYPE A	49,000.00 SQYD		
0330	0280-0105050J MATTING, TYPE E	7,900.00 SQYD		
0340	0280-0105100J COMPOST EROSION BLANKET	28,000.00 SQYD		
0350	0280-0106010E CHECK DAM, TYPE 1	7.00 EACH		
0360	0280-0106030E CHECK DAM, TYPE 3	10.00 EACH		
0370	0280-0106040E CHECK DAM, TYPE 4	20.00 EACH		
0380	0280-0110000A EROSION AND SEDIMENT CONTROL MANAGER	ALL LUMP SUM		
0390	0280-0110010E CONSTRUCTION ENTRANCE, TYPE 1	7.00 EACH		
0400	0280-0111010E TIRE WASH FACILITY, TYPE 1	1.00 EACH		

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			(IN FIGURES)	(IN FIGURES)
0410	0280-0112500E CONCRETE WASHOUT FACILITY	3.00 EACH		
0420	0280-0113000F SEDIMENT FENCE	900.00 FOOT		
0430	0280-0114030E INLET PROTECTION, TYPE 3	5.00 EACH		
0440	0280-0114040E INLET PROTECTION, TYPE 4	7.00 EACH		
0450	0280-0115030F SEDIMENT BARRIER, TYPE 3	5,100.00 FOOT		
0460	0280-0115040E SEDIMENT BARRIER, TYPE 4	20.00 EACH		
0470	0280-0119000E STRAW BALE	10.00 EACH		
0480	0290-0100000A POLLUTION CONTROL PLAN	ALL LUMP SUM		
0490	0290-0102000A WORK CONTAINMENT PLAN	ALL LUMP SUM		
0500	0290-0200000A TURBIDITY MONITORING	ALL LUMP SUM		
0510	0294-0100000A HEALTH AND SAFETY PLAN	ALL LUMP SUM		
0520	0294-0200010M CONTAMINATED SOIL DISPOSAL	1,068.00 TON		
0530	0294-0500000A LEAD COMPLIANCE PLAN	ALL LUMP SUM		
0540	0294-0600000A SEGREGATE AND STOCKPILE CONTAMINATED SOIL	ALL LUMP SUM		
0550	0295-0300000J REMOVE ASBESTOS MATERIAL, FRIABLE	3,000.00 SQFT		

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			(IN FIGURES)	(IN FIGURES)
0560	0295-0500000A BULK ASBESTOS SAMPLING, ANALYTICAL TESTING, AND REPORTING	ALL LUMP SUM		
0570	0298-0100000A PH MONITORING WELLS	ALL LUMP SUM		
0580	0298-0200000A ABANDON EXISTING WELLS	ALL LUMP SUM		
0590	1999-9Z90000A ACTIVE TREATMENT SYSTEM	ALL LUMP SUM		

SECTION: 0002 ROADWORK

0600	0305-0100000A CONSTRUCTION SURVEY WORK	ALL LUMP SUM		
0610	0310-0100000F REMOVAL OF PIPES	318.00 FOOT		
0620	0310-0103000J REMOVAL OF SURFACINGS	4,700.00 SQYD		
0630	0310-0104000E REMOVAL OF INLETS	7.00 EACH		
0640	0310-0106000A REMOVAL OF STRUCTURES AND OBSTRUCTIONS	ALL LUMP SUM		
0650	0310-0107000A REMOVAL OF ASPHALT CONCRETE WEARING SURFACE	ALL LUMP SUM		
0660	0310-0113000A REMOVAL OF GUARDRAIL	ALL LUMP SUM		
0670	0310-0119120F ASPHALT PAVEMENT SAWCUTTING, 6 TO 14 INCHES DEEP	4,300.00 FOOT		

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			(IN FIGURES)	(IN FIGURES)
0680	0320-0100000R CLEARING AND GRUBBING	5.50 ACRE		
0690	0330-0101000K DITCH EXCAVATION	47.00 CUYD		
0700	0330-0105000K GENERAL EXCAVATION	27,500.00 CUYD		
0710	0330-0126000K STONE EMBANKMENT	3,335.00 CUYD		
0720	0350-0104000J RIPRAP GEOTEXTILE, TYPE 2	70.00 SQYD		
0730	0350-0105000J SUBGRADE GEOTEXTILE	9,800.00 SQYD		
0740	0390-0105000K LOOSE RIPRAP, CLASS 50	73.00 CUYD		
0750	0390-0111000K LOOSE RIPRAP, CLASS 200	24.00 CUYD		
0760	1999-9Z90000A DESIGN DRAWINGS	ALL LUMP SUM		
0770	1999-9Z90000A ISM WORK PLATFORM	ALL LUMP SUM		
0780	1999-9Z90000A PRECONSTRUCTION MIX DESIGN TEST PROGRAM AND DEMONSTRATION PROGRAM	ALL LUMP SUM		
0790	1999-9Z90000A PROVIDE JET GROUTING EQUIPMENT	ALL LUMP SUM		
0800	1999-9Z90000A SOIL-CEMENT COLUMNS	ALL LUMP SUM		

SECTION: 0003 DRAINAGE AND SEWERS

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			(IN FIGURES)	(IN FIGURES)
0810	0405-0100000K ROCK EXCAVATION	20.00 CUYD		
0820	0405-0104000K BOULDER EXCAVATION	10.00 CUYD		
0830	0405-0106000K TRENCH FOUNDATION	10.00 CUYD		
0840	0406-0200000F CASING, STEEL	70.00 FOOT		
0850	0415-0100000F MAINLINE VIDEO INSPECTION	930.00 FOOT		
0860	0415-0401000F MAINLINE VIDEO WITH LASER PROFILE INSPECTION	573.00 FOOT		
0870	0445-010018BF 18 INCH CULVERT PIPE, 10 FT DEPTH	161.00 FOOT		
0880	0445-030024BF 24 INCH SANITARY SEWER PIPE, 10 FT DEPTH	429.00 FOOT		
0890	0445-030024CF 24 INCH SANITARY SEWER PIPE, 20 FT DEPTH	144.00 FOOT		
0900	0445-035012AF 12 INCH STORM SEWER PIPE, 5 FT DEPTH	214.00 FOOT		
0910	0445-035012BF 12 INCH STORM SEWER PIPE, 10 FT DEPTH	142.00 FOOT		
0920	0445-035018AF 18 INCH STORM SEWER PIPE, 5 FT DEPTH	171.00 FOOT		
0930	0445-060012AF 12 INCH DUCTILE IRON PIPE, 5 FT DEPTH	29.00 FOOT		
0940	0445-060018AF 18 INCH DUCTILE IRON PIPE, 5 FT DEPTH	82.00 FOOT		

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ADDENDUM NO.: 3

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			(IN FIGURES)	(IN FIGURES)
0950	0445-0700120E SLOPED END SECTIONS, 12 INCH	2.00 EACH		
0960	0445-0700180E SLOPED END SECTIONS, 18 INCH	4.00 EACH		
0970	0445-0740000E 3 PIECE ELBOW FOR SLOPE PIPE, 18 INCH X 12 INCH	4.00 EACH		
0980	0445-0750000A INSTALLING 24 INCH PIPE UNDER RAILROAD	ALL LUMP SUM		
0990	0445-0750000A INSTALLING 36 INCH PIPE UNDER RAILROAD	ALL LUMP SUM		
1000	0460-0100000J PAVED CULVERT END SLOPES	180.00 SQFT		
1010	0470-0100000E CONCRETE SANITARY SEWER MANHOLES	7.00 EACH		
1020	0470-0101000E CONCRETE STORM SEWER MANHOLES	2.00 EACH		
1030	0470-0106000E CONCRETE MANHOLES, LARGE PRECAST	3.00 EACH		
1040	0470-0311000E CONCRETE INLETS, TYPE D	4.00 EACH		
1050	0470-0312000E CONCRETE INLETS, TYPE D (MODIFIED)	7.00 EACH		
1060	0470-0315000E CONCRETE INLETS, TYPE G-2	3.00 EACH		
1070	0480-0100000F DRAINAGE CURBS	350.00 FOOT		
1080	0490-0104000E CONNECTION TO EXISTING STRUCTURES	2.00 EACH		

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			(IN FIGURES)	(IN FIGURES)
1090	0490-0123000E EXTRA FOR MANHOLES OVER EXISTING SEWERS	4.00 EACH		
1100	0495-0100000J TRENCH RESURFACING	39.00 SQYD		
1110	1999-9Z90000E EXPLORATORY EXCAVATIONS	10.00 EACH		

SECTION: 0004 BRIDGES

1120	0512-0100001A PROVIDE DRILLING EQUIPMENT	1.00 LS		
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SECTION: 0005 STRUCTURE NO 24318

1130	0223-0170000E RAILROAD FLAGGER SERVICES	420.00 EACH		
1140	0252-0104000A TEMPORARY WORK BRIDGES	ALL LUMP SUM		
1150	0253-0106000A TEMPORARY WORK ACCESS AND CONTAINMENT	ALL LUMP SUM		
1160	0256-0109100A TEMPORARY RETAINING WALL A	ALL LUMP SUM		
1170	0256-0109100A TEMPORARY RETAINING WALL B	ALL LUMP SUM		
1180	0350-0100000J DRAINAGE GEOTEXTILE, TYPE 1	80.00 SQYD		
1190	0430-0100080F 8 INCH DRAIN PIPE	120.00 FOOT		
1200	0510-0100000A SHORING, CRIBBING, AND COFFERDAMS	ALL LUMP SUM		

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			(IN FIGURES)	(IN FIGURES)
1210	0510-0101000A STRUCTURE EXCAVATION	ALL LUMP SUM		
1220	0510-0108000A GRANULAR STRUCTURE BACKFILL	ALL LUMP SUM		
1230	0512-0101000A DRILLED SHAFT CONCRETE	ALL LUMP SUM		
1240	0512-0104000A DRILLED SHAFT REINFORCEMENT, GRADE 60	ALL LUMP SUM		
1250	0512-0104000A DRILLED SHAFT REINFORCEMENT, GRADE 80	ALL LUMP SUM		
1260	0512-0105000F CSL TEST ACCESS TUBES	5,200.00 FOOT		
1270	0000-0100000A DELETED BID ITEM	ALL LUMP SUM	0.00	0.00
1280	0512-0110000F DRILLED SHAFT EXCAVATION, 48 INCH DIAMETER	300.00 FOOT		
1290	0512-0114000F DRILLED SHAFT EXCAVATION, 96 INCH DIAMETER	498.00 FOOT		
1300	0530-0104000O REINFORCEMENT, GRADE 60	172,390.00 LB		
1310	0530-0104000O REINFORCEMENT, GRADE 80	152,710.00 LB		
1320	0530-0104100O COATED REINFORCEMENT, GRADE 80	303,000.00 LB		
1330	0540-0210000A DECK CONCRETE, CLASS HPC(IC)4500	ALL LUMP SUM		
1340	0540-0302000A GENERAL STRUCTURAL CONCRETE, CLASS 4000	ALL LUMP SUM		

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			(IN FIGURES)	(IN FIGURES)
1350	0540-0401000J SURFACE TEXTURING	3,322.00 SQYD		
1360	0543-0100000J ARCHITECTURAL TREATMENT	100.00 SQYD		
1370	0543-0200000A TEST PANELS	ALL LUMP SUM		
1380	0545-0100100J REINFORCED CONCRETE BRIDGE APPROACH SLABS	204.00 SQYD		
1390	0545-0100200F BRIDGE APPROACH SLEEPER SLABS	96.00 FOOT		
1400	0560-0102000A STEEL PLATE GIRDER	ALL LUMP SUM		
1410	0560-0103000A STEEL PLATE GIRDER WITH HAUNCH	ALL LUMP SUM		
1420	0582-0020000E BEARING DEVICES, 15 INCH WIDE, 15 INCH LONG, 3 INCH THICK	5.00 EACH		
1430	0582-0020000E BEARING DEVICES, 18 INCH WIDE, 18 INCH LONG, 3 1/2 INCH THICK	15.00 EACH		
1440	0582-0020000E BEARING DEVICES, 23 INCH WIDE, 23 INCH LONG, 5 1/2 INCH THICK	10.00 EACH		
1450	0582-0020000E BEARING DEVICES, 28 INCH WIDE, 28 INCH LONG, 3 1/2 INCH THICK	5.00 EACH		
1460	0583-0201000F PVC CONDUIT SYSTEM, 3 INCH DIAMETER	1,609.00 FOOT		
1470	0585-0214000A STRIP SEALS	ALL LUMP SUM		
1480	0587-0126100A TYPE "F" CONCRETE RAIL, 42 INCH	ALL LUMP SUM		

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			(IN FIGURES)	(IN FIGURES)
1490	0587-0136000A ORNAMENTAL PROTECTIVE SCREENING	ALL LUMP SUM		
1500	0842-0401000E BRIDGE IDENTIFICATION MARKERS	2.00 EACH		

SECTION: 0006 STRUCTURE NO 02443

1510	0223-0170000E RAILROAD FLAGGER SERVICES	210.00 EACH		
1520	0253-0106000A TEMPORARY WORK ACCESS AND CONTAINMENT	ALL LUMP SUM		
1530	0501-0100000A BRIDGE REMOVAL WORK	ALL LUMP SUM		

SECTION: 0007 STRUCTURE NO 24391

1540	0543-0100000J ARCHITECTURAL TREATMENT	1,002.00 SQYD		
1550	0543-0200000A TEST PANELS	ALL LUMP SUM		
1560	0596-A002000A RETAINING WALL, MSE	ALL LUMP SUM		

SECTION: 0008 RETAINING WALL

1570	0596-B002000A RETAINING WALL, PREFABRICATED MODULAR GRAVITY	ALL LUMP SUM		
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SECTION: 0009 BASES

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			(IN FIGURES)	(IN FIGURES)
1580	0620-0104000J COLD PLANE PAVEMENT REMOVAL, 0 - 2 INCHES DEEP	350.00 SQYD		
1590	0620-0120000J COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	890.00 SQYD		
1600	0620-0125000J COLD PLANE PAVEMENT REMOVAL, 6 INCHES DEEP	286.00 SQYD		
1610	0641-0102000M AGGREGATE BASE	6,600.00 TON		
1620	0641-0130000M AGGREGATE SHOULDERS	2,710.00 TON		

SECTION: 0010 WEARING SURFACES

1630	0745-0422000M LEVEL 4, 1/2 INCH LIME TREATED ACP	7,004.00 TON		
1640	0745-0434000M LEVEL 4, 1/2 INCH LIME TREATED ACP IN LEVELING	130.00 TON		
1650	0745-0451000M LEVEL 4, 1/2 INCH LIME TREATED ACP IN TEMPORARY	360.00 TON		
1660	0745-0640100M PG 70-22ER ASPHALT IN LEVEL 4, 1/2 INCH ACP	443.00 TON		
1670	0756-0101000J PLAIN CONCRETE PAVEMENT, UNDOWELED, 6 INCHES THICK	112.00 SQYD		

SECTION: 0011 PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVICES

1680	0810-0119000E GUARDRAIL ANCHORS, TYPE 1	2.00 EACH		
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			(IN FIGURES)	(IN FIGURES)
1690	0810-0123000E GUARDRAIL END PIECES, TYPE C	2.00 EACH		
1700	0810-0126000E GUARDRAIL TRANSITION	2.00 EACH		
1710	0810-0128000E GUARDRAIL CONNECTIONS	2.00 EACH		
1720	0810-0129000E GUARDRAIL TERMINALS, NON- FLARED	1.00 EACH		
1730	0810-0132200E GUARDRAIL TERMINALS, DOWNSTREAM ANCHOR TERMINAL	3.00 EACH		
1740	0810-0146100F MIDWEST GUARDRAIL SYSTEM, TYPE 2A WEATHERIZED	2,314.00 FOOT		
1750	0810-0146100F MIDWEST GUARDRAIL SYSTEM, TYPE 3 WEATHERIZED	50.00 FOOT		
1760	0840-0100000E DELINEATORS, TYPE 1	22.00 EACH		
1770	0840-0105000E DELINEATORS, TYPE 5	8.00 EACH		
1780	0840-0106000E MILEPOST MARKER POSTS	1.00 EACH		
1790	0842-0101001E FACILITY FIELD MARKERS, TYPE S1 GREEN	3.00 EACH		
1800	0842-0102001E FACILITY FIELD MARKERS, TYPE S1 RED	3.00 EACH		
1810	0842-0103001E FACILITY FIELD MARKERS, TYPE S2	6.00 EACH		
1820	0842-0202000E CULVERT DRAINAGE MARKERS, TYPE 2	10.00 EACH		

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			(IN FIGURES)	(IN FIGURES)
1830	0855-0106100E MONO-DIRECTIONAL WHITE TYPE IAR MARKERS, RECESSED	60.00 EACH		
1840	0857-0101000L CONTINUOUS RUMBLE STRIPS	0.44 MILE		
1850	0857-0101500L GAP PATTERN RUMBLE STRIPS	0.38 MILE		
1860	0865-0203000F METHYL METHACRYLATE, WET WEATHER, GROOVED, NON- PROFILED	7,000.00 FOOT		

SECTION: 0012 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS

1870	0905-0100000A REMOVE EXISTING SIGNS	ALL LUMP SUM		
1880	0905-0101000A REMOVE AND REINSTALL EXISTING SIGNS	ALL LUMP SUM		
1890	0910-0100000K WOOD SIGN POSTS	92.00 FBM		
1900	0920-0100000A SIGN SUPPORT FOOTINGS	ALL LUMP SUM		
1910	0930-0106000A EXIT NUMBER SIGN MOUNTS	ALL LUMP SUM		
1920	0930-0111000A MULTI-POST BREAKAWAY SIGN SUPPORTS	ALL LUMP SUM		
1930	0930-0112000A TRIANGULAR BASE BREAKAWAY SIGN SUPPORTS	ALL LUMP SUM		
1940	0940-0201000J SIGNS, STANDARD SHEETING, EXTRUDED ALUMINUM	220.00 SQFT		

**OREGON DEPARTMENT OF TRANSPORTATION
BID SCHEDULE**

CONTRACT NO.: 15707 **PROJECT:** I-84 (WESTBOUND): UNION PACIFIC RAILROAD BRIDGE
(HOOD RIVER)
PROJECT KEY: 21683 **ADDENDUM NO.:** 3

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE	BID AMOUNT
			(IN FIGURES)	(IN FIGURES)
1950	0940-0202000J SIGNS, STANDARD SHEETING, SHEET ALUMINUM	12.00 SQFT		

SECTION: 0013 RIGHT-OF-WAY DEVELOPMENT AND CONTROL

1960	1012-0100000A WATER QUALITY SWALE, D01801	ALL LUMP SUM		
1970	1012-0100000A WATER QUALITY SWALE, D01802	ALL LUMP SUM		
1980	1012-0100000A WATER QUALITY SWALE, D01803	ALL LUMP SUM		
1990	1030-0101000R WEED CONTROL	5.20 ACRE		
2000	1030-0103000R TEMPORARY SEEDING	2.00 ACRE		
2010	1030-0108000R PERMANENT SEEDING	5.50 ACRE		
2020	1030-0113000R WETLAND SEEDING	0.50 ACRE		
2030	1040-0153000E SHRUBS, #1 CONTAINER	1,100.00 EACH		
2040	1040-0180000E PLANT CUTTINGS, GREATER THAN 1 INCH	650.00 EACH		
2050	1040-0183000E WETLAND PLANTS, PLUGS	2,500.00 EACH		
2060	1040-0202000E WOODY COARSE DEBRIS	5.00 EACH		
2070	1040-0203000E BOULDERS	10.00 EACH		

**OREGON DEPARTMENT OF TRANSPORTATION
BID SCHEDULE**

CONTRACT NO.: 15707 **PROJECT:** I-84 (WESTBOUND): UNION PACIFIC RAILROAD BRIDGE
(HOOD RIVER)
PROJECT KEY: 21683 **ADDENDUM NO.:** 3

ITEM NO	ITEM DESCRIPTION	QUANTITY AND UNITS	UNIT PRICE	BID AMOUNT
			(IN FIGURES)	(IN FIGURES)
2080	1050-0100000F TYPE 1 FENCE	317.00 FOOT		
2090	1050-0135000F CL-4 MODIFIED CHAIN LINK FENCE	840.00 FOOT		

SECTION: 0014 WATER SUPPLY SYSTEMS

2100	1140-0145000F 12 INCH POTABLE WATER PIPE, FITTINGS & COUPLINGS WITH RESTRAINED JOINTS AND CLASS B BACKFILL	109.00 FOOT		
2110	1140-0190000K EXTRA TRENCH EXCAVATION WITH CLASS B BACKFILL	100.00 CUYD		
2120	1140-0300000E 12 INCH CONNECTION TO 12 INCH EXISTING MAIN	2.00 EACH		

TOTAL BID: _____

SECTION 00512 - DRILLED SHAFTS

Comply with Section 00512 of the Standard Specifications modified as follows:

00512.14(a) Mineral Slurry - Replace the paragraph that begins "Use mineral slurry ..." with the following paragraph:

Use mineral slurry meeting the following requirements:

00512.14(b) Synthetic Slurries - Replace the paragraph that begins "Select synthetic slurries from ..." with the following paragraph:

Select synthetic slurries from the QPL. Use synthetic slurries according to the manufacturer's recommendations and the Contractor's quality control plan. The allowed Sand content of synthetic slurry is less than 1.0 percent prior to final cleaning and immediately prior to concrete placement.

00512.14(c) Water Slurry - Replace the paragraph that begins "Water may be used as ..." with the following paragraph:

Water may be used as slurry when casing is used for the entire length of the drilled shaft. Use of water slurry without full-length casing will only be allowed with the Engineer's approval. Use water slurry meeting the following requirements:

00512.15 Crosshole Sonic Log Access Tubes - Replace the bullet that begins "Steel access tubes shall ..." with the following bullet:

- Use steel access tubes at least 1 1/2 inch inside diameter Schedule 40 pipe meeting ASTM A53, Grade A or B, Type E, F, or S.

Replace the bullet that begins "Access tube acceptance ..." with the following bullet:

- Access tube acceptance is based on manufacturer's certification that the furnished Material meets the requirements of this Specification.

00512.18 Crosshole Sonic Log Cement Grout - Replace this subsection, except for the subsection number and title, with the following:

Furnish non-epoxy grout or tendon grout from the QPL or furnish a pumpable CSL cement grout consisting of neat cement and water that has a water-cement ratio between 0.38 and 0.45. Furnish portland cement for the pumpable CSL cement grout meeting the requirements of Section 02010.

00512.30 Personnel Qualifications - Replace this subsection, except for the subsection number and title, with the following:

Perform the drilled shaft construction Work using a company and personnel experienced in drilled shaft construction Work. Submit a list to the Engineer for approval identifying the on-site supervisors and drill rig operators assigned to the Project and the company's experience relevant to the Project. Submit experience relevant to the anticipated subsurface materials, groundwater conditions, shaft size, depth and any special construction techniques required. Also provide the experience qualifications of the company performing the quality assurance testing. Before the preconstruction conference, provide the following information to verify the firm's experience and the qualifications of personnel scheduled to perform the drilled shaft construction and quality assurance testing:

- Submit a project reference list of at least three separate foundation projects, successfully completed in the last 5 years, with Drilled Shafts of diameters and depths equal to or larger than those shown in the Plans and in ground conditions similar to those indicated. Include a brief description of each project and the owner's contact person's name and current phone number for each project listed.
- Submit a resume for on-site supervisors with at least 2 years' experience in supervising construction of drilled shaft foundations of similar size (diameter and depth) and scope to those shown in the Plans and in similar geotechnical conditions to those described in the geotechnical report. Submit experience that includes the direct supervisory responsibility for the on-site construction operations.
- Submit a resume for drill operators with at least 1 year of experience in the construction of drilled shaft foundations.
- Perform quality assurance testing using an independent testing organization retained by the Contractor and approved by the Agency. Provide personnel experienced in operating the specific quality assurance testing Equipment. Submit the CSL testing firm qualifications according to 00512.40(a). Provide a quality assurance testing firm that has successfully performed quality assurance testing on a minimum of five projects during the last 3 years. Provide quality assurance testing personnel that have been trained in the operation of the quality assurance Equipment and have at least 1 year of experience in operating quality assurance testing Equipment on a minimum of 10 shafts.

The Engineer will respond within 21 Calendar Days after receipt of the submittal. Do not begin Work on any drilled shafts until the qualifications have been approved. The Engineer may suspend the drilled shaft construction if the Contractor substitutes unapproved personnel during construction. Submit requests for substitution of either on-site supervisors, drill operators, or CSL testing personnel to the Engineer, who will have 7 Calendar Days to respond to each request. Additional costs resulting from the suspension of Work due to the changing of personnel is the Contractor's responsibility, and no adjustment in Contract Time resulting from the suspension of Work is allowed.

00512.40(a) Drilled Shaft Installation Plan - Replace the paragraph that begins "The Engineer will approve or reject ..." with the following paragraph:

The Engineer will approve or reject the drilled shaft installation plan within 21 Calendar Days after receipt of all submissions. Provide any additional information and submit a revised plan, if requested, for review and approval. All procedural approvals given by the Engineer are subject to trial in the field and will not relieve the Contractor of the responsibility to satisfactorily complete the Work. Submit requests for modification of adopted procedures to

the Engineer. Allow 21 Calendar Days for approval of modifications. Do not begin drilled shaft construction Work until all drilled shaft submittals have been approved.

00512.41 Drilled Shaft Coordination Meeting - Replace the paragraph that begins "Hold a drilled shaft coordination ..." with the following paragraph:

Hold a drilled shaft coordination meeting at least 7 Calendar Days before beginning any shaft construction Work at the site to discuss construction procedures, schedules, staging, personnel, Equipment to be used, and other elements of the approved shaft installation plan as specified in 00512.40. If synthetic slurry is used to construct the shafts, discuss the frequency of scheduled site visits to the Project Site by the synthetic slurry manufacturer's representative. Those attending the meeting include:

Replace the bullet that begins "**Representing the Contractor** ..." with the following bullet:

- **Representing the Contractor** - The superintendent, on-site supervisors, and all supervisors in charge of excavating the shaft, placing the casing, mixing and installing slurry (as applicable), placing the steel reinforcing bars, and placing the concrete. If synthetic slurry is used to construct the shafts, the slurry manufacturer's representative and a Contractor's employee trained in the use of the synthetic slurry are required to also attend.

00512.43(a) Drilled Shaft Excavation, General - Replace the paragraph that begins "Excavate Drilled Shafts to the ..." with the following paragraph:

Excavate Drilled Shafts to the dimensions and elevations shown or as directed. Provide and maintain stabilized drilled shaft sidewalls and bottoms for the full depth of the excavation, using approved Materials, Equipment and methods. If caving or other unstable conditions occur during any construction procedure, stop further construction, notify the Engineer, and stabilize the shaft excavation by approved methods and submit a revised installation plan that addresses the problem and prevents further instability. Do not continue with shaft construction until any damage that occurred has been repaired according to the Specifications and until receiving the Engineer's approval of the revised shaft installation plan.

Add the following paragraph to the end of this subsection:

Variations in the bearing layer elevation from that shown are anticipated. Provide Equipment on-site capable of excavating an additional 5 feet of depth below that shown.

00512.43(c) Temporary Casing - Replace this subsection, except for the subsection number and title, with the following:

Provide Temporary Casing of sufficient quantities to accommodate the full design depths as shown.

00512.43(d) Unexpected Drilled Shaft Obstructions - Replace this subsection, except for the subsection number and title, with the following:

Remove any natural or manmade object encountered that was not revealed by the Agency's site investigation, and that would cause a significant decrease in the rate of advancement if

removed using the techniques and Equipment used successfully to excavate the shaft. The Engineer is the sole judge of the significance of any reduced rate of shaft advancement and the classification of any unexpected obstructions. Removal of unexpected obstructions from the shaft excavation will be paid according to 00195.20.

00512.43(e) Lost Tools - Replace this subsection, except for the subsection number and title, with the following:

Promptly remove drilling tools lost in the excavation. Lost tools will not be considered unexpected obstructions. Remove lost tools without additional compensation. Drilling tools lost during the course of removing unexpected drilled shaft obstructions will be paid according to 00195.20.

00512.43(f) Drilling Slurry Installation - Replace the paragraph that begins "If synthetic drilling slurry is ..." with the following paragraph:

If synthetic drilling slurry is selected, provide a manufacturer's representative to provide technical assistance at the site prior to use of the slurry, and have them remain at the site during construction and completion of a minimum of one drilled shaft to adjust the slurry mix for the specific site subsurface conditions. After the manufacturer's representative is no longer at the site, provide the approved personnel trained in the use of the synthetic slurry for the remainder of the shaft slurry operations to supervise the proper slurry mix design and quality control procedures.

Replace the paragraph that begins "All in hole drilling ..." with the following paragraph:

Meet the required slurry specifications during excavation and prior to concrete placement. Clean, recirculate, de-sand or replace the slurry to maintain the required slurry properties.

00512.43(g) Drilling Slurry Inspection and Testing - Replace the paragraph that begins "Mix and thoroughly ..." with the following paragraph:

Mix and thoroughly hydrate all drilling slurries in an appropriate storage facility. Collect sample sets from the storage facility and perform tests to ensure the slurry conforms to the specified Material properties before introduction into the drilled shaft excavation. A sample set consists of samples taken at mid-depth and within 24 inches of the bottom of the storage facility.

Replace the paragraph that begins "Sample and test all slurry ..." with the following paragraph:

Sample and test all slurry in the presence of the Engineer, unless otherwise directed. Provide the sample sets of slurry within the excavation consisting of samples taken at mid-depth of the excavation and within 24 inches of the bottom of the excavation. Collect and test sample sets during the drilling operation as necessary to ensure the specified properties of the slurry are maintained. Clean, recirculate, de-sand, or replace the slurry as necessary to maintain the specified slurry properties. Final cleaning of the excavation and placement of concrete is not allowed until the test results indicate the slurry properties are as specified.

00512.43(h) Clean Out - Replace the paragraph that begins "Use appropriate means, such ..." with the following paragraph:

Use appropriate means, such as a cleanout bucket, pump or air lift, to clean the bottom of the drilled shaft excavations. No more than 2 inches of loose or disturbed material is allowed at the bottom of the excavation for end-bearing Drilled Shafts. No more than 6 inches of loose or disturbed material is allowed at the bottom of the excavation for side friction Drilled Shafts. Assume end-bearing shafts unless otherwise shown or specified. Shaft cleanliness is determined by the Engineer.

Add the following subsection:

00512.45(e) Rock Socket - At locations requiring minimum shaft penetrations into specific bearing layers, furnish steel reinforcing bar cages, including CSL access tubes if specified, ____ feet longer than the lengths shown. Add the increased length to the bottom of the cage. Trim the shaft steel reinforcing bar cage to the proper length prior to placing it in the excavation. Shift or trim CSL access tubes (if present) to the revised cage length. If CSL tubes are cut, adapt the ends of the tubes to receive the watertight caps as specified.

00512.46 Crosshole Sonic Log Test Access Tubes - Replace the paragraph that begins "Furnish and install access tubes ..." with the following paragraph:

Furnish and install access tubes for CSL testing as shown. Attach CSL access tubes securely to the interior of the reinforcement cage as near to parallel as possible in each drilled shaft and in the pattern shown. Extend the access tubes from the bottom of the reinforcement cage to at least 24 inches above the top of the shaft. When joints are required to achieve full-length access tubes, furnish watertight joints. Do not damage the access tubes during reinforcement cage installation and concrete placement. Fill the tubes with potable water, according to 02020.10(b), as soon as possible, but no more than 1 hour after concrete placement and reinstall the top watertight caps. Check water level and top off as needed.

00512.47(a) Concrete Placement - Replace the paragraph that begins "Allow a maximum of 60 minutes ..." with the following paragraph:

Allow a maximum of 60 minutes between concrete placements and use no concrete older than 90 minutes from batch time. Use procedures for concrete placement ensuring that the concrete within the shaft becomes a monolithic, homogeneous unit.

00512.47(b) Casing Removal - Replace the paragraph that begins "Under free-fall placement ..." with the following paragraph:

Under free-fall placement, deposit concrete through the center of the reinforcement cage by a method that prevents segregation of Aggregates and splashing of concrete on the reinforcement cage. Place concrete so that the free-fall is vertical down the center of the shaft without hitting the sides, the steel reinforcing bars or steel cage bracing.

00512.47(e) Dry Shaft Concrete Placement - Replace the paragraph that begins "Remove all Temporary Casing during ..." with the following paragraph:

Remove all Temporary Casing during or after completion of concrete placement. Do not start Temporary Casing removal until the level of fresh concrete within the casing has reached a depth of at least 10 feet or the level necessary to adequately counteract the external hydrostatic pressure head. As the Temporary Casing is withdrawn, maintain a minimum 5 feet head of concrete above the bottom of the casing. A slight downward movement of the casing while exerting downward pressure, or hammering or vibrating the casing is allowed to facilitate extraction. Extract the casing so that concrete is cast directly against the surrounding in-situ material. Check the elevation of the top of the reinforcing cage before and after Temporary Casing extraction for conformance with the construction tolerance criteria of 00512.42. Casing that cannot be extracted during, or immediately after, the concrete placement operation may be cause for rejection of the shaft.

00512.48 Drilled Shaft Testing and Acceptance - Replace the paragraph that begins "Acceptance of Drilled Shafts..." with the following paragraph:

Acceptance of Drilled Shafts will be based on the Engineer's review of the results of CSL, or other, integrity testing (if conducted), field inspection reports and visual observations during drilled shaft construction. The Engineer has final authority on the approval of Drilled Shafts. For shafts that are integrity tested, the Engineer will determine final acceptance of each tested shaft, based on the integrity test results and inspection reports and will provide a response to the Contractor within 14 Calendar Days of the performance of the tests.

00512.48(a) Crosshole Sonic Log Testing - Replace this subsection, except the subsection number and title, with the following:

The Agency will provide crosshole sonic log testing and analysis on each drilled shaft in general accordance with ASTM D6760. Provide access to the CSL testing firm necessary to do the CSL testing Work. Allow for 6 hours at each drilled shaft to set up and perform the testing. Furnish electrical power (a 115 volt, 55 - 60 cycle AC outlet, 10 amp minimum) for the Agency's use during the installation and operation of the testing instruments.

Schedule the CSL testing of each drilled shaft with the Engineer at least 7 Calendar Days in advance. Allow at least 3 Calendar Days and sufficient concrete curing time to attain at least 50 percent of the specified design strength before testing unless otherwise approved.

For Drilled Shafts constructed using non-contact splice methods, allow Agency to complete CSL testing after the initial pour to the bottom of the splice region. Do not begin column reinforcement Work or pouring of the splice region until approved by the Engineer.

00512.48(b) Contractor's Crosshole Sonic Log Test Reports - Delete this subsection.

00512.48(c) Additional Testing and Investigation - Replace the paragraph that begins "If requested by the Engineer ..." with the following paragraph:

If requested by the Engineer, drill a core hole in any questionable quality shaft to explore the shaft condition. The Engineer will determine the number, location and depths of the core holes. Submit the method and Equipment used to drill and remove cores from the shaft to the Engineer for review and approval prior to drilling. Use a coring method that provides complete core recovery and minimizes abrasion and erosion of the core. If a defect is confirmed, as determined by the Engineer, all investigation costs associated with identifying

the defect will be at no additional cost to the Agency and no extension of the Project completion date will be granted, regardless of whether the identified defect is repaired or not.

00512.80(a) Furnish Drilling Equipment - Replace the title of this subsection with “**Provide Drilling Equipment**”

00512.80(d) Drilled Shaft Concrete - Add the following at the end of this subsection:

The estimated quantity of drilled shaft concrete is:

Structure	Quantity (Cubic Yard)
24318	1,145

The estimated quantity of drilled shaft concrete includes the concrete required to extend the shafts according to 00512.43(a).

00512.80(e) Drilled Shaft Reinforcement - Add the following at the end of the paragraph:

The estimated quantity of drilled shaft reinforcement is:

Structure Number	Uncoated Reinforcement Quantity (Pound)	
	Grade 60	Grade 80
24318	49,800	353,100

The estimated quantity of drilled shaft reinforcement includes the reinforcement required to extend the shafts according to 00512.45.

00512.90 Payment - Replace the Pay Item Furnish Drilling Equipment with the following Pay Item:

Pay Item	Unit of Measurement
(a) Provide Drilling Equipment	Lump Sum

Replace the paragraph that begins "Item (a) includes ..." with the following paragraph:

Item (a) includes providing and moving the drilling Equipment to the Project, setting up the Equipment at the various locations on the Project and removing the Equipment from the Project.

Replace the paragraph that begins "In item (b) ..." with the following paragraph:

In item (b), the diameter of the shaft casing is inserted in the blank.

Replace the paragraph that begins "In item (c) ..." with the following paragraph:

In item (c), the diameter of the shaft is inserted in the blank. Item (c) includes excavating the shafts and disposing of the excavated material and for providing, placing, splicing, and removing temporary shaft casing and forms.

Replace the paragraph that begins "In item (e) ..." with the following paragraph:

In item (e), the grade of reinforcement is inserted in the blank.

Replace the paragraph that begins "Payment will be payment ..." with the following paragraph:

Payment will be payment in full for furnishing and placing all Materials, and for providing all Equipment, labor, and Incidentals necessary to complete the Work as specified.