DESCHUTES COUNTY ROAD DEPARTMENT

ADDENDUM NO. 2

HUNNELL RD: LOCO RD TO TUMALO RD

The Bidding Documents for the HUNNELL RD: LOCO RD TO TUMALO RD project are amended as follows:

BIDDING DOCUMENTS

SCHEDULE OF BID ITEMS

Replace "BI 011 – Subgrade Stabilization" with "BI 011 – 24 Inch Subgrade Stabilization".

Replace "BI 056 – 12 Inch Combination Air Release / Air Vacuum Valve Assembly" with "BI 056 – 1 Inch Combination Air Release / Air Vacuum Valve Assembly".

Replace "BI 058 – 2 Inch Tapping Saddle and 2 Inch Valve Assembly" with "BI 058 – 1 Inch Double Strap Tapping Saddle and 1 Inch Corp Stop".

Change the quantity of "BI 059 – 2 Inch Copper Water Service Line" from 110 FOOT to 72 FOOT.

SPECIAL PROVISIONS

Replace "Section 00331 – Subgrade Stabilization" in the Special Provisions with the following:

SECTION 00331 - SUBGRADE STABILIZATION

Comply with Section 00331 of the Standard Specifications modified as follows:

00331.42 Backfill – Add the following sentence to the end of this subsection:

Backfill shall be Stone Embankment conforming to the requirements of Section 00330.16 for the full depth of subgrade stabilization.

In Subsection "01050.90 Payment" of the Special Provisions, replace items (i) and (k) with the following:

Pay Item	**Unit of Measurement**
(i) 1 Inch Combination Air Release / Air Vacuum Valve Assembly	Each
(k) 1 Inch Double Strap Tapping Saddle and 1 Inch Corp Stop	Each

BIDDING PLANS

Replace sheets G05, RD22.1, RD25 and RD51 in the Bidding Plans with the revised sheets, which are attached to this Addendum. Changes to the above-mentioned sheets are summarized below:

Sheet G05:

- Remove Note 2 regarding Check Dam height.

Sheet RD22.1:

- Added Note 5 regarding potable water and irrigation pipe spacer requirements within HDPE sleeves.

Sheet RD25:

- Remove Water Main Note #1 on water line at approx. STA 262+60.
- Remove Water Main Note #4 on water line at approx. STA 202+25.
- Add Water Main Note #7 to 2" private water service connection.
- Clarify typo in Water Main Note #2.

Sheet RD51:

- Add Water Main Note #4 to 2" private water service connection.

The Bidding Documents for the HUNNELL RD: LOCO RD TO TUMALO RD project are amended as described above.

Cody Smith, PE
County Engineer

12/2/2022
Date

I acknowledge receipt of Addendum No. 2.

SIGNATURE OF BIDDER

Date

THIS ADDENDUM, EXCLUDING ATTACHMENTS, SHALL BE SIGNED AND SUBMITTED WITH THE BID PROPOSAL BY THE BIDDER.

SCHEDULE OF BID ITEMS

ITEM NO.	SPEC SECTION	ITEM	UNIT	QTY	UNIT PRICE	AMOUNT
		Part 00200 - Temporary Features and Appurtenances				
001	00210	Mobilization	LS	1	$	$
002	00221	Temporary Work Zone Traffic Control, Complete	LS	1	$	$
003	00280	Erosion Control	LS	1	$	$
004	00280	Check Dam, Type 1	EACH	98	$	$
005	00280	Sediment Fence	FOOT	23000	$	$
		Part 00300 - Roadwork				
006	00305	Construction Survey Work	LS	1	$	$
007	00310	Removal of Structures and Obstructions	LS	1	$	$
008	00310	Asphalt Pavement Saw Cutting	FOOT	720	$	$
009	00320	Clearing and Grubbing	LS	1	$	$
010	00330	General Excavation	CUYD	31019	$	$
011	00331	Subgrade Stabilization	SQYD	1500	$	$
012	00390	Riprap Backing	SQYD	221	$	$
013	00390	Loose Riprap, Class 200	CUYD	125	$	$
014	00390	Riprap Basins	CUYD	16	$	$
		Part 00400 - Drainage and Sewers				
015	00441	Canal Crossing - Bowery	LS	1	$	$
016	00441	Canal Crossing - Elder	LS	1	$	$
017	00441	Canal Crossing - Butte	LS	1	$	$
018	00441	Canal Crossing - 8-Inch Private	LS	1	$	$
019	00441	Canal Crossing - 12-Inch Private	LS	1	$	$
020	00445	12-Inch Culvert Pipe, 5 Foot Depth	FOOT	83	$	$
021	00490	Adjusting Boxes	EACH	9	$	$
		Part 00500 - Bridges				
022	00568	Canal Crossing - S.I.D. Main	LS	1	$	$
		Part 00600 - Bases				
023	00641	Aggregate Base & Shoulders	TON	31580	$	$
		Part 00700 - Wearing Surfaces				
024	00744	Level 3, 1/2 Inch ACP	TON	14660	$	$
025	00744	PG 58-34 Asphalt in Level 3, 1/2 Inch ACP	TON	807	$	$
026	00749	Extra for Asphalt Approaches	EACH	22	$	$
027	00759	Concrete Curbs, Standard Curb	FOOT	4700	$	$
028	00759	Concrete Islands	SQFT	3400	$	$
		Part 00800 - Permanent Traffic Safety and Guidance Devices				
029	00810	Midwest Guardrail System, Type 2A	FOOT	30	$	$
030	00810	Midwest Guardrail System, Type 4	FOOT	10	$	$
031	00810	Guardrail End Pieces, Type B	EACH	1	$	$
032	00810	Guardrail Transition	EACH	4	$	$
033	00810	Guardrail Terminals, Flared	EACH	3	$	$
034	00855	Bi-Directional Yellow Type IAR Markers, Recessed	EACH	380	$	$
035	00856	Permanent Surface Mounted Tubular Markers	EACH	52	$	$
036	00865	Thermoplastic, Sprayed, Surface, Non-Profiled	FOOT	110893	$	$
037	00867	Pavement Bar, Type AB	SQFT	170	$	$
038	00867	Pavement Legend, Type AB: "STOP"	EACH	5	$	$

SCHEDULE OF BID ITEMS

ITEM NO.	SPEC SECTION	ITEM	UNIT	QTY	UNIT PRICE	AMOUNT
		Part 00900 - Permanent Traffic Control and Illumination Systems				
039	00905	Remove Existing Signs	LS	1	$	$
040	00920	Sign Support Footings	LS	1	$	$
041	00930	Perforated Steel Square Tube Slip Base Sign Supports	LS	1	$	$
042	00940	Signs, Standard Sheeting, Sheet Aluminum	SQFT	348	$	$
043	00990	Speed Feedback System	EACH	6	$	$
		Part 01000 - Right of Way Development and Control				
044	01012	Water Quality Swale	SQYD	3233	$	$
045	01030	Permanent Seeding	ACRE	6	$	$
046	01030	Water Quality Seeding	ACRE	0.7	$	$
047	01050	Removing and Rebuilding Fence	FOOT	1406	$	$
048	01050	20 Foot Double Gates	EACH	2	$	$
049	01070	Remove and Reinstall Mailbox Supports	EACH	51	$	$
		Part 01100 - Water Supply Systems				
050	01140	12 Inch Potable Water Pipe, Fittings & Couplings w/ Restrained Joints and Class B Backfill	FOOT	574	$	$
051	01140	4 Inch Potable Water Pipe, Fittings & Couplings w/ Restrained Joints and Class B Backfill	FOOT	1000	$	$
052	01150	12 Inch Gate Valve	EACH	4	$	$
053	01150	4 Inch Gate Valve	EACH	2	$	$
054	01150	2 Inch Gate Valve	EACH	1	$	$
055	01150	Blowoff Assembly, 2 Inch	EACH	1	$	$
056	01150	1 Inch Combination Air Release / Air Vacuum Valve Assembly	EACH	3	$	$
057	01150	4 Inch Tapping Sleeve and 4 Inch Valve Assembly	EACH	1	$	$
058	01150	1 Inch Double Strap Tapping Saddle and 1 Inch Corp Stop	EACH	1	$	$
059	01170	2 Inch Copper Water Service Line	FOOT	72	$	$
060	01170	1 Inch Water Meter Assembly	EACH	1	$	$

TOTAL BID: _____

FOR DESCHUTES COUNTY USE ONLY

ADD _____ % FOR NON-RESIDENT BIDDER _____

WATER QUALITY SWALE DATA

NUMBER	PLAN SHEET	LOCATION	BEGIN STA	END STA	LENGTH	R/L
1	EC01	LOW POINT	114+45	116+34	189	R,L
2	EC01	LOW POINT	119+46	121+41	195	R,L
3	EC02	DRAINAGE CURB	126+06	127+50	144	R
4	EC02	LOW POINT	126+06	127+73	167	L
5	EC02	DRIVEWAY #1	127+97	128+36	39	L
6	EC03	LOW POINT	139+47	141+40	193	R,L
7	EC03	DRIVEWAY#2	145+59	145+81	22	R
8	EC03	DRIVEWAY #3	147+32	147+92	60	R
9	EC03-EC04	LOW POINT	147+42	149+34	192	L
10	EC03-EC04	LOW POINT	148+07	149+34	127	R
11	EC04	LOW POINT	157+96	158+10	14	R
12	EC04	DRAINAGE CURB	160+65	160+96	31	R
13	EC05	DRIVEWAY #8	168+31	168+83	52	L
14	EC05	LOW POINT	168+47	169+76	129	R
15	EC05	LOW POINT	169+07	169+76	69	L
16	EC05	HARRIS WAY	171+45	171+65	20	R
17	EC05-EC06	LOW POINT	171+95	173+82	187	L
18	EC06	DRAINAGE CURB	174+80	175+00	20	R
19	EC06	LOW POINT	178+65	179+81	116	R
20	EC06	LOW POINT	178+90	180+16	126	L
21	EC06	DWY #11 & #13	180+05	180+66	61	R
22	EC06	DRIVEWAY #12	180+35	180+86	51	L
23	EC06	DRIVEWAY #13	180+87	181+28	41	R
24	EC07	DRIVEWAY #17	185+63	185+79	16	R
25	EC07	DRIVEWAY #18	187+30	187+74	44	L
26	EC07	DRIVEWAY #19	188+90	189+29	39	L
27	EC07	LOWE LANE	191+97	192+51	54	R
28	EC07	LOW POINT	193+28	195+05	177	L
29	EC07	LOW POINT	193+80	195+05	125	R
30	EC08	DRIVEWAY #21	198+27	198+54	27	R
31	EC08	DRAINAGE CURB	199+12	199+50	38	R
32	EC08	LOW POINT	199+56	201+27	171	L
33	EC08	LOW POINT	200+20	201+52	132	R
34	EC09	LOW POINT	211+28	213+40	212	R
35	EC09	DRIVEWAY #26	211+52	212+25	73	L
36	EC09	DRIVEWAY #26	212+56	213+40	84	L
37	EC09	DRAINAGE CURB	214+82	215+05	23	R
38	EC09	DRIVEWAY #27	214+91	215+14	23	L
39	EC10	DRIVEWAY #31	226+84	227+00	16	L
40	EC10	SUNBEAM LANE*	227+37	227+68	31	R

WATER QUALITY SWALE DATA

NUMBER	PLAN SHEET	LOCATION	BEGIN STA	END STA	LENGTH	R/L
41	EC10	DRAINAGE CURB	230+10	230+35	25	R
42	EC10	DRIVEWAY #32	230+24	230+49	25	L
43	EC10-EC11	LOW POINT	231+55	233+44	189	R
44	EC10	LOW POINT	231+72	232+86	114	L
45	EC11	DRIVEWAY #34	235+45	236+06	61	R
46	EC11	DRIVEWAY #35	236+27	236+45	18	L
47	EC11	DRIVEWAY #36	237+68	238+06	38	R
48	EC11	LOW POINT	238+10	239+99	189	L
49	EC11	LOW POINT	238+28	239+99	171	R
50	EC11	DRIVEWAY #40	243+15	243+32	17	R
51	EC11	DRIVEWAY #41	243+82	243+95	13	L
52	EC12	DRIVEWAY #42	247+30	247+55	25	R
53	EC12	DRIVEWAY #43	247+43	247+68	25	L
54	EC12	LOW POINT	249+07	250+76	169	R
55	EC12	LOW POINT	249+07	251+00	193	L
56	EC12	DRIVEWAY #45	251+33	251+65	32	L
57	EC12	DRIVEWAY #46	251+70	251+96	26	R
58	EC12	DRIVEWAY #47	254+06	254+22	16	R
59	EC12	DRIVEWAY #48	254+40	254+58	18	L
61	EC13	DRAINAGE CURB	260+70	261+04	34	R
62	EC13	LOW POINT	262+74	263+37	77	L
63	EC13	DRIVEWAY #51	263+48	264+70	122	R
64	EC13	LOW POINT	264+55	266+80	225	L
65	EC13	LOW POINT	265+03	267+85	282	R
66	EC14	LOW POINT	269+87	273+18	331	R
67	EC14	LOW POINT	270+88	272+15	127	L
68	EC14	DRIVEWAY #55	272+29	273+18	89	L
69	EC14	DRIVEWAY #60	275+35	276+34	99	R
70	EC14	DRIVEWAY #59	275+56	275+89	33	L
71	EC14	DWY #59 & #61	276+10	276+81	71	L
72	EC14	LOW POINT	276+53	278+54	201	R
73	EC14	LOW POINT	277+06	278+19	113	L
74	EC14	DWY #62 & #64	278+35	279+76	141	L
75	EC15	LOW POINT	281+83	284+20	237	R,L
76	EC15	DRIVEWAY #70	287+62	287+86	24	R
77	EC15	DRIVEWAY #71	287+96	288+20	24	L
78	EC15	DWY #72 & #74	289+53	289+99	46	R
79	EC15	DWY #73 & 75	290+09	290+65	56	L
80	EC15	DRIVEWAY #74	290+16	290+28	12	R
81	EC15	DRIVEWAY #75	290+91	291+27	36	L

CHECK DAM DATA

PLAN SHEET	BEGIN STA	END STA	R/L	LENGTH	MAX GRADE	MAX SPACING	QUANTITY*
EC01-EC02	122+77	125+20	R,L	243	3.85%	100	3
EC02	128+33	129+83	L	150	3.29%	100	2
EC02-EC03	135+05	139+15	R,L	410	5.30%	100	5
EC03	144+52	147+08	R,L	256	3.00%	100	3
EC04	155+58	158+04	R,L	246	5.74%	100	3
EC04-EC05	158+04	161+66	L	362	4.70%	100	4
EC05	165+61	168+09	R,L	248	4.20%	100	3
EC06	174+00	175+00	R,L	100	2.40%	100	1
EC06	176+50	178+50	L	200	3.70%	100	2
EC06-EC07	184+62	190+13	R,L	551	4.60%	100	6
EC07-EC08	195+95	199+17	R,L	322	2.50%	100	4
EC08-EC09	208+30	211+20	R,L	290	4.30%	100	3
EC09	215+00	217+00	L	200	4.00%	100	2
EC09-EC10	220+16	221+30	R,L	114	2.10%	100	2
EC10	224+10	227+00	L	290	4.90%	100	3
EC10	229+30	230+50	R,L	120	2.70%	100	2
EC11	234+32	236+45	L	213	3.70%	100	3
EC11	236+45	237+75	R,L	130	3.70%	100	2
EC11-EC12	242+37	248+69	R,L	632	5.20%	100	7
EC12	251+39	255+83	R,L	444	4.30%	100	5
EC12	259+22	261+12	L	190	3.60%	100	2

*NOTES:
1. CONSTRUCT CHECK DAMS PER ODOT STD DWG RD1005, AGGREGATE CHECK DAM - TYPE 1.
2. CHECK DAMS TO HAVE A HEIGHT OF 4".
3. QUANTITY IS # OF DAMS PER SIDE OF ROAD.

2

REGISTERED PROFESSIONAL ENGINEER
94,828
OREGON
MAY 15, 2019
NICOLAS G. SPEROS
EXPIRES: 06/30/24

100% SUBMITTAL

P:\03-Bend\DCO (Deschutes County)\DCO-01 (Hunnell Road)\DCO01-DWGS\Sheets\ DCO-01_G03-G05 Typical Sections.dwg

DESCHUTES COUNTY

DATE	NO.	DESCRIPTION
2022.12.01	2	REMOVE CHECK DAM NOTE #2

REVISIONS

DESIGNED: HHPR TEAM
DRAWN: MD
CHECKED: NS
DATE: 10.28.2022

HHPR Harper Houf Peterson Righellis Inc.
ENGINEERS♦PLANNERS
LANDSCAPE ARCHITECTS♦SURVEYORS
250 NW Franklin Ave, Suite 404, Bend, OR 97703
phone: 541.318.1161 www.hhpr.com fax: 541.318.1141

DRAINAGE DATA

HUNNELL ROAD: LOCO ROAD TO TUMALO ROAD PROJECT

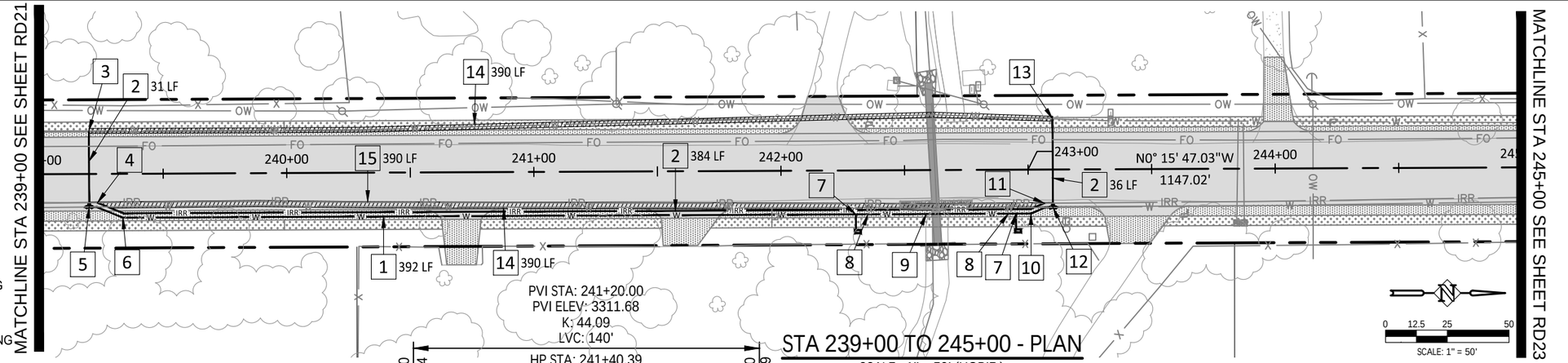
DESCHUTES COUNTY, OREGON

SHEET NO. G05

JOB NO. DC0-01

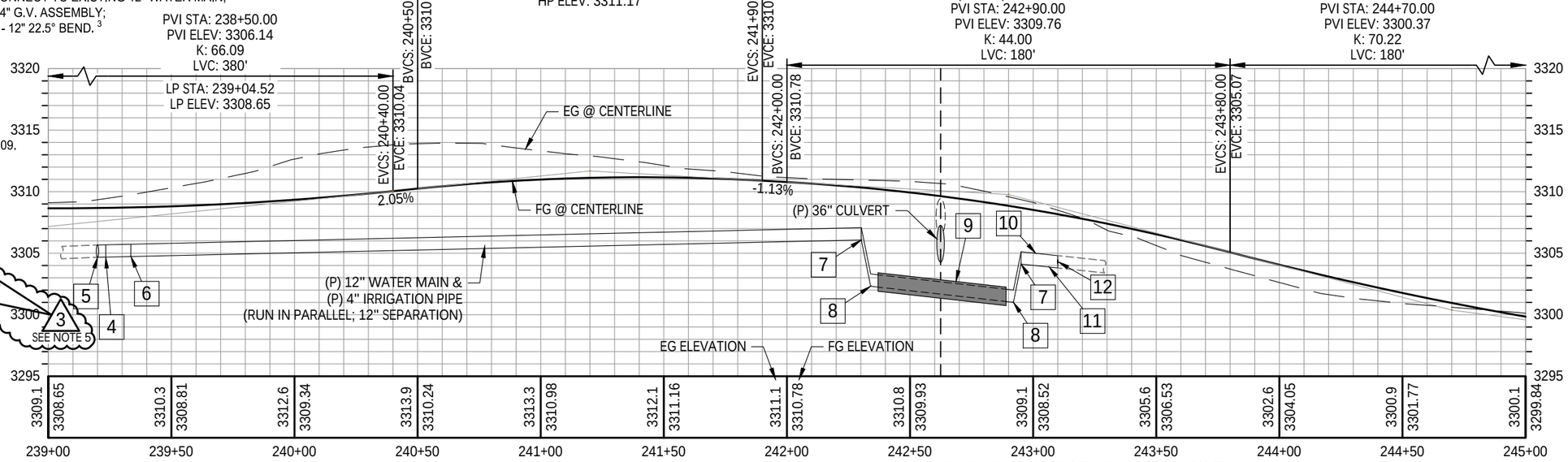
WATER MAIN NOTES: [1]

1. CONSTRUCT 12" D.I. WATER PIPE. SEE PLAN FOR LENGTH.
2. CONSTRUCT 4" D.I. WATER PIPE. SEE PLAN FOR LENGTH.
3. STA 239+20.00, 17.4' L
   CUT EXISTING 4" WATER MAIN; INSTALL 1 - 4" 90° BEND [3]; CONNECT TO EXISTING 4" DOMESTIC WATER MAIN CONTINUING SOUTH.
4. STA 239+23.36, 11.6' R
   CUT EXISTING 4" IRRIGATION LINE; INSTALL 1 - 4" 22.5° BEND [3]; CONNECT TO EXISTING 4" IRRIGATION MAIN CONTINUING SOUTH.
5. STA 239+20.00, 13.4' R
   12" WAT: INSTALL STRADDLE BLOCK [4]; CUT EXISTING 12" WATER MAIN; INSTALL 1 - 12" TEE [3];
   SOUTH LEG: INSTALL 1 - 12" G.V. ASSEMBLY; CONNECT TO EXISTING 12" WATER MAIN;
   WEST LEG: INSTALL 1 - 12" x 4" REDUCER [3]; 1 - 4" G.V. ASSEMBLY;
   NORTH LEG: INSTALL 1 - 12" G.V. ASSEMBLY; 1 - 12" 22.5° BEND. [3]
6. STA 239+33.57, 17.7' R [2]
   12" WAT: INSTALL 1 - 12" 22.5° BEND. [3]
   4" IRR: INSTALL 1 - 4" 22.5° BEND. [3]
7. STA 242+30.23, 17.7' R & 242+95.08, 17.7' R [2]
   12" WAT: INSTALL 1 - 12" 45° VERTICAL BEND [3];
   1 - AIR RELIEF VALVE PER DETAIL ON SHEET G09.
   4" IRR: INSTALL 1 - 4" 45° VERTICAL BEND. [3]
8. STA 242+34.00, 17.7' R & STA 242+92.00, 17.7' R [2]
   12" WAT: INSTALL 1 - 12" 45° VERTICAL BEND [3];
   4" IRR: INSTALL 1 - 4" 45° VERTICAL BEND. [3]
9. STA 242+37.00, 17.7' R TO 242+89.00, 17.7' R [2]
   12" WAT: 12" WATER PIPE TO BE ENCASED IN 18" SDR17 HDPE PIPE WITH WELDED JOINTS. [5]
   4" IRR: 4" IRRIGATION PIPE TO BE ENCASED IN 10" SDR17 HDPE PIPE WITH WELDED JOINTS. [5]
10. STA 243+01.08, 17.7' R [2]
    12" WAT: INSTALL 1 - 12" 22.5° BEND. [3]
    4" IRR: INSTALL 1 - 4" 22.5° BEND. [3]
11. STA 243+06.53, 13.6' R
    CUT EXISTING 4" IRRIGATION LINE; INSTALL 1 - 4" 22.5° BEND [3]; CONNECT TO EXISTING 4" IRRIGATION MAIN CONTINUING SOUTH.
12. STA 243+10.00, 15.4' R
    12" WAT: INSTALL STRADDLE BLOCK [4]; CUT EXISTING 12" WATER MAIN; INSTALL 1 - 12" TEE [3];
    SOUTH LEG: INSTALL 1 - 12" G.V. ASSEMBLY; 1 - 12" 22.5° BEND [3];
    WEST LEG: INSTALL 1 - 12" x 4" REDUCER [3]; 1 - 4" G.V. ASSEMBLY;
    NORTH LEG: INSTALL 1 - 12" G.V. ASSEMBLY; CONNECT TO EXISTING 12" WATER MAIN.
13. STA 243+10.00, 20.5' L
    CUT EXISTING 4" WATER MAIN; INSTALL 1 - 4" 90° BEND; CONNECT TO EXISTING 4" DOMESTIC WATER MAIN CONTINUING NORTH.
14. DEMO & REMOVE EXISTING WATER PIPE TO LIMITS SHOWN ON PLAN. SEE PLAN FOR LENGTH.
15. DEMO & REMOVE EXISTING IRRIGATION PIPE TO LIMITS SHOWN ON PLAN. SEE PLAN FOR LENGTH.



STA 239+00 TO 245+00 - PLAN

SCALE: 1" = 50' (HORIZ.)



STA 239+00 TO 245+00 - PROFILE

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

NOTES:
1. ALL WATER IMPROVEMENTS TO BE CONSTRUCTED PER AVION WATER COMPANY STANDARDS AND SPECIFICATIONS. SEE SHEETS G08 AND G09 FOR STANDARD DETAILS. CONTRACTOR TO COORDINATE WATER MAIN SHUT-OFF WITH AVION WATER COMPANY.
2. STATION & OFFSET REPRESENTS POSITION OF PROPOSED 12" WATER MAIN FITTINGS. PROPOSED 4" IRRIGATION PIPE AND FITTINGS SHALL RUN IN PARALLEL AT 12" SEPARATION, OFFSET TO THE WEST.
3. RESTRAIN FITTINGS PER TABLE ON SHEET G08.
4. STRADDLE BLOCK SIZING SHALL BE APPROVED BY AVION WATER PRIOR TO CONSTRUCTION. APPROXIMATE DIMENSIONS: 6' WIDTH X 2' LENGTH X 5' DEPTH WITH #4 BAR REINFORCEMENT 12" O.C. BOTH WAYS.
5. PIPE WITHIN HDPE SLEEVE SHALL BE RESTRAINED WITH MECHANICAL SPACERS AT THE JOINT ON EACH LENGTH OF PIPE. CAP SLEEVES AT END TO PREVENT DEBRIS FROM ENTERING THE SLEEVES.

3

LEGEND:

- W — (E) WATER LINE
- IRR — (E) IRRIGATION LINE
- W — (P) WATER LINE
- IRR — (P) IRRIGATION LINE
- IRR — DEMO IRRIGATION LINE
- W — DEMO WATER LINE

100% SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER
94,828
OREGON
MAY 15, 2019
NICOLAS G. SPEROS
EXPIRES: 06/30/24

DATE	NO.	DESCRIPTION
2022.12.02	1	WATER NOTE CLARIFICATIONS

REVISIONS

DESIGNED: HHPR TEAM
DRAWN: MD
CHECKED: NS
DATE: 10.28.2022

Harper Houf Peterson Righellis Inc.
ENGINEERS✦PLANNERS
LANDSCAPE ARCHITECTS✦SURVEYORS
250 NW Franklin Ave, Suite 404, Bend, OR 97703
phone: 541.318.1161 www.hhpr.com fax: 541.318.1141

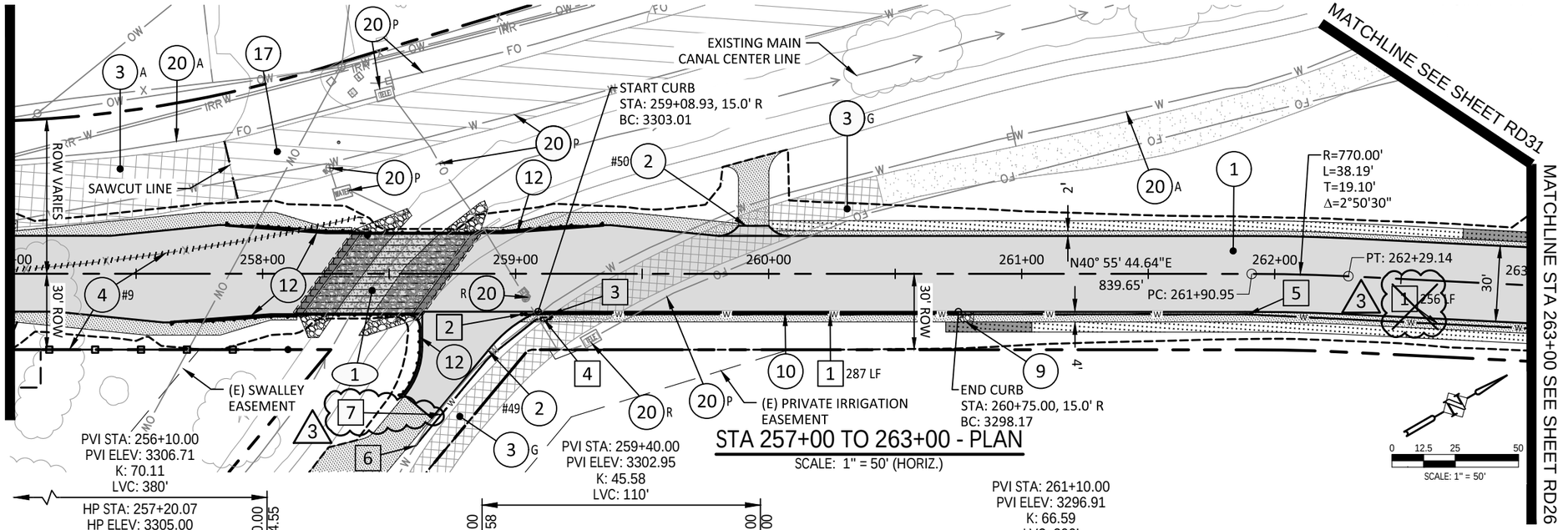
WATER MAIN RELOCATION PLAN & PROFILE - STA 239+00 TO 245+00

HUNNELL ROAD: LOCO ROAD TO TUMALO ROAD PROJECT

DESCHUTES COUNTY, OREGON

SHEET NO. RD22.1
JOB NO. DC0-01

P:\03-Bend\DCO (Deschutes County)\DCO-01 (Hunnell Road)\DCO01-DWGS\Sheets\ DCO-01_ RD-C Plan & Profile (233+00 - 293+00).dwg



STA 257+00 TO 263+00 - PLAN

SCALE: 1" = 50' (HORIZ.)

STA 257+00 TO 263+00 - PROFILE

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

CONSTRUCTION NOTES:

1. CONSTRUCT NEW AC ROADWAY SECTION PER TYPICAL SECTION DETAIL ON SHEET G03.
2. CONSTRUCT DRIVEWAY APRON. SEE SHEET G06 FOR TABLE AND DETAILS. DRIVEWAY NUMBER NOTED ON PLAN.
3. DEMO & REMOVE EXISTING ROADWAY SECTION. ASPHALT (A) OR GRAVEL (G) AS NOTED.
4. REMOVE EXISTING FENCE WHERE IT CONFLICTS WITH PROPOSED IMPROVEMENTS. SEE SHEET G07 FOR TABLE AND DETAILS. SEGMENT # SHOWN ON PLAN. VERIFY WITH ENGINEER PRIOR TO REBUILDING OR REPLACING FENCE.
9. INSTALL 6-FT LONG, 12" DEPTH, RIPRAP BASIN IN PLACE OF AGGREGATE SHOULDER.
10. CONSTRUCT STANDARD CONCRETE CURB PER ODOT STD DWG RD700. (H=12"; E=6")
12. CONSTRUCT GUARDRAIL. SEE SHEET RD57 FOR MORE INFORMATION.
17. EXISTING HUNNELL RD AC ROADWAY AND RIGHT-OF-WAY. PROTECT TO PROVIDE ACCESS TO EXISTING DRIVEWAYS.
20. EXISTING UTILITY. PROTECT (P), ABANDON (A), OR RELOCATE (R) AS NOTED. RELOCATION TO BE COMPLETED BY OTHERS.

IRRIGATION CANAL NOTES:

1. PROPOSED IRRIGATION CANAL CROSSING STRUCTURE. SEE SHEET CX04 FOR MORE INFORMATION.

WATER MAIN NOTES: [1]

1. CONSTRUCT 4" D.I. WATER PIPE. SEE PLAN FOR LENGTH.
2. STA 259+02.48, 16.0'R INSTALL 1 - 2" BLOWOFF ASSEMBLY & 1 - 4" G.V. ASSEMBLY PER DETAIL ON SHEET G09. [3]
3. STA 259+13.93, 16.0'R INSTALL 1 - 4" x 1" DOUBLE STRAP SADDLE; 1 - 1" CORPORATION STOP
4. STA 259+11.18, 18.0' R INSTALL 1 - 1" WATER METER AND BACKFLOW DEVICE PER DETAIL ON SHEET G09. WATER METER AND BACKFLOW DEVICE TO BE PROVIDED BY AVION WATER COMPANY. COORDINATE WITH AVION FOR INSTALLATION.
5. STA 261+89.48, 16.0' R DEFLECT AS NECESSARY. DO NOT EXCEED MANUFACTURER SPECS; SEE SHEET RD26 FOR 4" MAIN CONTINUATION NORTH.
6. STA 258+60.41, 68.0' R CONNECT TO EXISTING 2" WATER SERVICE. ABANDON EXISTING WATER SERVICE PIPE UPSTREAM OF CONNECTION.
7. CONSTRUCT 72 LF 2" COPPER WATER SERVICE. [3]

NOTE:
1. ALL WATER IMPROVEMENTS TO BE CONSTRUCTED PER AVION WATER COMPANY STANDARDS AND SPECIFICATIONS. SEE SHEETS G08 AND G09 FOR STANDARD DETAILS.

LEGEND:
- W (E) WATER LINE
- W (P) WATER LINE

100% SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER
94,828
OREGON
MAY 15, 2019
NICOLAS G. SPEROS
EXPIRES: 06/30/24

DATE	NO.	DESCRIPTION
2022.12.02	1	WATER NOTE CLARIFICATIONS

REVISIONS

DESIGNED: HHPR TEAM
DRAWN: MD
CHECKED: NS
DATE: 10.28.2022

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
250 NW Franklin Ave, Suite 404, Bend, OR 97703
phone: 541.318.1161 www.hhpr.com fax: 541.318.1141

PLAN & PROFILE - STA 257+00 TO 263+00

HUNNELL ROAD: LOCO ROAD TO TUMALO ROAD PROJECT

DESCHUTES COUNTY, OREGON

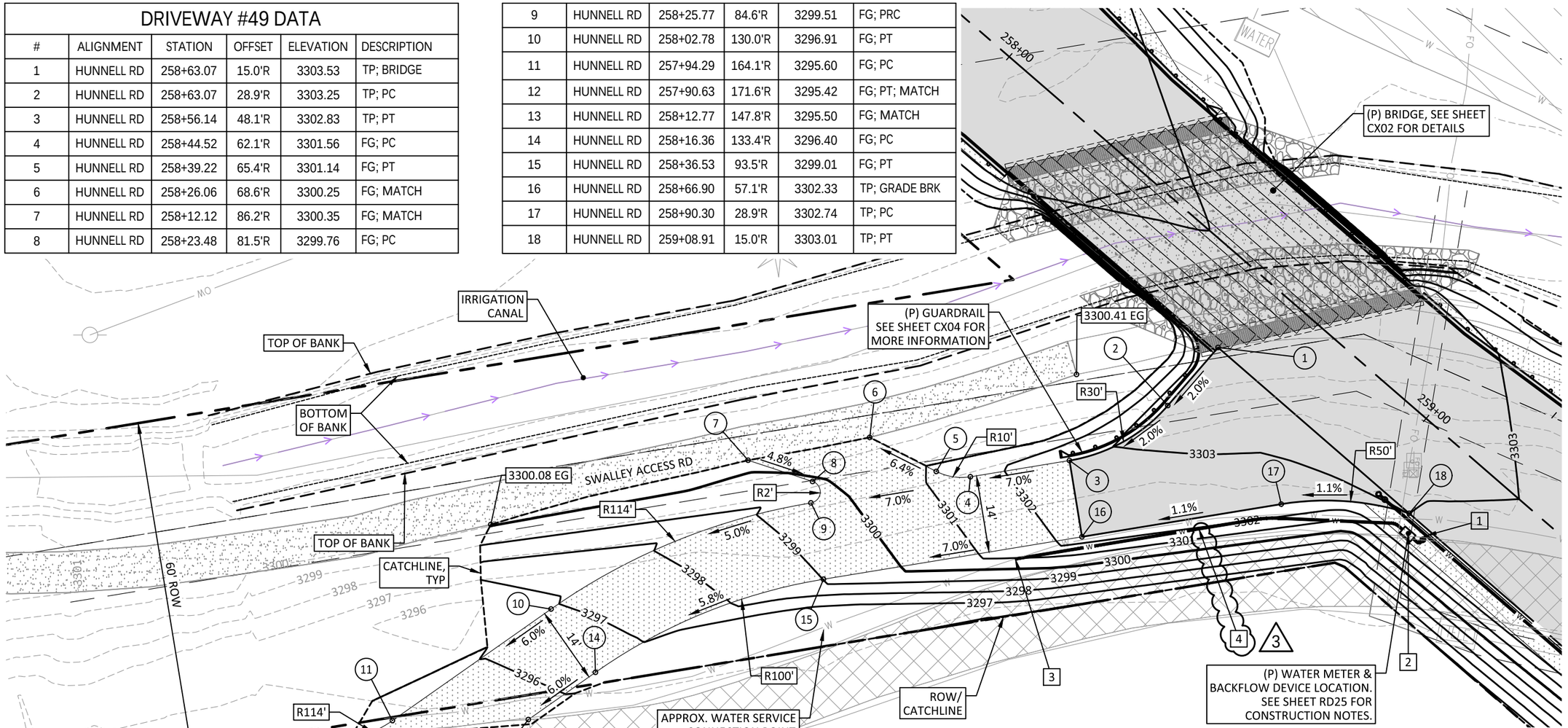
SHEET NO. RD25

JOB NO. DC0-01

P:\03-Bend\DCO (Deschutes County)\DCO-01 (Hunnell Road)\DCO01-DWGS\Sheets\ DCO-01_ RD-C Plan & Profile (233+00 - 293+00).dwg

DRIVEWAY #49 DATA

#	ALIGNMENT	STATION	OFFSET	ELEVATION	DESCRIPTION
1	HUNNELL RD	258+63.07	15.0'R	3303.53	TP; BRIDGE
2	HUNNELL RD	258+63.07	28.9'R	3303.25	TP; PC
3	HUNNELL RD	258+56.14	48.1'R	3302.83	TP; PT
4	HUNNELL RD	258+44.52	62.1'R	3301.56	FG; PC
5	HUNNELL RD	258+39.22	65.4'R	3301.14	FG; PT
6	HUNNELL RD	258+26.06	68.6'R	3300.25	FG; MATCH
7	HUNNELL RD	258+12.12	86.2'R	3300.35	FG; MATCH
8	HUNNELL RD	258+23.48	81.5'R	3299.76	FG; PC
9	HUNNELL RD	258+25.77	84.6'R	3299.51	FG; PRC
10	HUNNELL RD	258+02.78	130.0'R	3296.91	FG; PT
11	HUNNELL RD	257+94.29	164.1'R	3295.60	FG; PC
12	HUNNELL RD	257+90.63	171.6'R	3295.42	FG; PT; MATCH
13	HUNNELL RD	258+12.77	147.8'R	3295.50	FG; MATCH
14	HUNNELL RD	258+16.36	133.4'R	3296.40	FG; PC
15	HUNNELL RD	258+36.53	93.5'R	3299.01	FG; PT
16	HUNNELL RD	258+66.90	57.1'R	3302.33	TP; GRADE BRK
17	HUNNELL RD	258+90.30	28.9'R	3302.74	TP; PC
18	HUNNELL RD	259+08.91	15.0'R	3303.01	TP; PT



WATER MAIN NOTES*:

1. STA 259+13.93, 16.0'R
   INSTALL 1 - 4" x 1" DOUBLE STRAP SADDLE;
   1 - 1" CORPORATION STOP
2. STA 259+11.18, 18.0' R
   INSTALL 1 - 1" WATER METER AND BACKFLOW DEVICE PER DETAIL ON SHEET G09. WATER METER AND BACKFLOW DEVICE TO BE PROVIDED BY AVION WATER COMPANY. COORDINATE WITH AVION FOR INSTALLATION.
3. STA 258+60.41, 68.0' R
   CONNECT TO EXISTING 2" WATER SERVICE.
   ABANDON EXISTING WATER SERVICE PIPE UPSTREAM OF CONNECTION.

ABBREVIATIONS	
TP	TOP OF PAVEMENT
BC	BOTTOM FACE OF CURB
TC	TOP FACE OF CURB
FG	FINISHED GRADE
EG	EXISTING GRADE

4 CONSTRUCT 72 LF 2" COPPER WATER SERVICE. 3

0 5 10 20
SCALE: 1" = 20'

DRIVEWAY #49
SCALE: 1" = 20'

100% SUBMITTAL

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DATE	NO.	DESCRIPTION
2022.12.02	3	WATER NOTE CLARIFICATIONS

REVISIONS

DESIGNED: HHPR TEAM
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DRIVEWAY DETAILS
HUNNELL ROAD: LOCO ROAD TO TUMALO ROAD PROJECT
DESCHUTES COUNTY, OREGON

SHEET NO. RD51
JOB NO. DC0-01

P:\03-Bend\DCO (Deschutes County)\DCO-01 (Hunnell Road)\DCO01-DWGS\Sheets\ DCO-01_ RD-F Driveway Details.dwg