

LINN COUNTY ROAD DEPARTMENT

OVERALL PROJECT LENGTH: 0.13 MILES

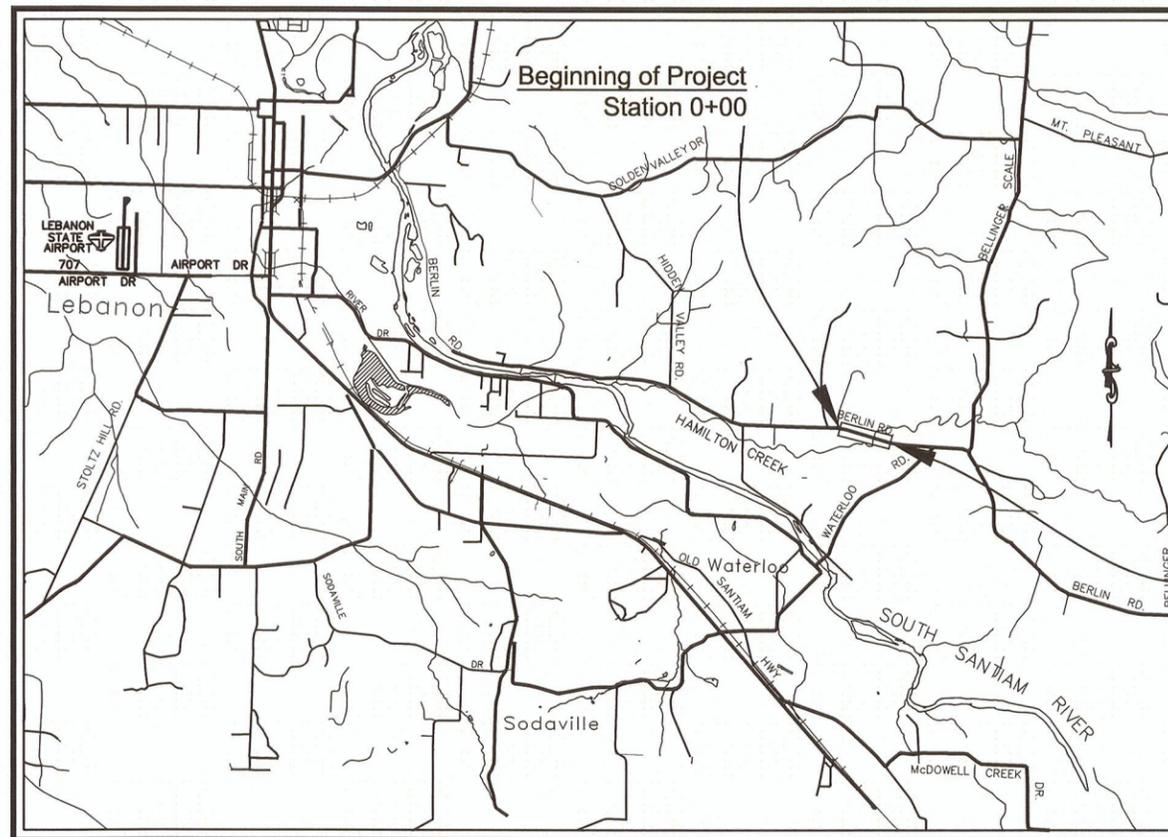
BRIDGES AND ROADWAY BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY BRIDGE NO. BR0020B-0490
ODOT BRIDGE NO. 23838

MARCH 2020



PROJECT LOCATION



End of Project
Station 7+00

SEE SHEET 2 FOR SHEET INDEX

WARNING

If this bar does not
measure 1" then drawing
is not to scale



English
Units

ATTENTION:
Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain a copy of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987.)



**LINN COUNTY
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**COUNTY
COMMISSION**
ROGER NYQUIST
CHAIRMAN
JOHN LINDSEY
WILLIAM TUCKER

ROADMASTER
DARRIN L. LANE, P.E.
COUNTY ENGINEER
CHARLES R. KNOLL, P.E.

DATE:	REVISION:	BY:	BRIDGE NO:	0020B-0490	DATE:	02/18/2020
			PROJECT NO:	CB1303		
			TRS:	T. 12 S., R. 01 W., SEC. 21		
			DESIGNED BY:	A. Potts	CHECKED BY:	K. Groom
			DRAFTED BY:	A. Potts	REVIEWED BY:	C. Knoll

BERLIN ROAD: HAMILTON
CREEK BRIDGE

LINN COUNTY

TITLE SHEET

SCALE: no scale
SHEET 1

K:\Projects - Current\BR 0020B-0490 - Hamilton Creek - Berlin Road\Drawings\Base Map.dwg 2/21/2020 2:37 PM

SHEET INDEX	
SHEET 1	TITLE SHEET
SHEET 2	SHEET INDEX, LEGEND, NOTES, STANDARD DRAWINGS & ABBREVIATIONS
SHEET 3	EXISTING STRUCTURE
SHEET 4	TRAFFIC CONTROL PLAN
SHEET 5	TYPICAL SECTIONS
SHEET 6	PLAN & PROFILE
SHEET 7	STORMWATER DRAINAGE PLAN
SHEET 8	EROSION CONTROL PLAN
SHEET 9	SIGNING & STRIPING PLAN
SHEET BR-01	PLAN & ELEVATION
SHEET BR-02	GENERAL NOTES
SHEET BR-03	FOUNDATION DATA SHEET
SHEET BR-04	FOUNDATION PLAN & DETAILS
SHEET BR-05	DECK PLAN & TYPICAL SECTION
SHEET BR-06	P/S BOX DETAILS
SHEET BR-07	BENT DETAILS
SHEET BR-08	WINGWALL DETAILS
SHEET BR-09	RAIL & MISC. DETAILS

Standard Drawing and Detail Numbers:

ROADWAY

RD610	-Asphalt Concrete Pavement Details
<u>GUARDRAIL</u>	
RD400, RD405	-Guardrail and Metal Median Barrier and Parts
RD410	-Guardrail Parts (Thrie Beam)
RD415	-Guardrail and Metal Median Barrier Parts
RD420	-Energy Absorbing Terminal
RD440	-Bridge End Installation
DET1455	-Bridge Rail End Protection (Type 4)

EROSION CONTROL

RD1032	-Sediment Barriers (Type 8)
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BRIDGE RAIL

BR200	-Concrete Bridge Rail, Type "F"
BR203	-Transition Concrete Bridge Rail to Guardrail
BR233	-Thrie Beam Rail and Transition
BR236	-Trailing End Bridge Connection Concrete Bridge Rail to Guardrail
BR256	-Pedestrian Rail on Type "F" Concrete Bridge Rail

REINFORCED PRESTRESSED SLABS AND BOX GIRDERS

BR440, BR445	-48" Precast Prestressed Box and Details
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OTHER BRIDGE SHEETS

BR165	-Bridge End Panel
BR140	-Expansion Joints

PERMANENT SIGNING

TM200	-Sign Installation Details
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PAVEMENT MARKINGS

TM500	-Pavement Marking Standard Detail Blocks
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TEMPORARY TRAFFIC CONTROL

TM800	-Tables, Abrupt Edge and PCMS Details
TM820	-Temporary Barricades
TM821, TM822	-Temporary Sign Supports
TM840	-Closure Details
TM870, RD500	-Traffic Control Plan

SIGN, ILLUMINATION, AND SIGNAL SUPPORT STRUCTURES

TM676, TM677	-Sign Attachments and Mounts
TM681, TM687	-Perforated Steel Square Tube (PSST) Sign Support Installation, Anchor Foundation and Slip Base Foundation
TM688	

MISC.

RD810	-Barbed and Woven Wire Fences
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ABBREVIATION LEGEND			
ACP	ASPHALT CONCRETE PAVEMENT	LT	LEFT
ACWS	ASPHALT CONCRETE WEARING SURFACE	LS	LUMP SUM
A.D.	ALGEBRAIC DIFFERENCE	MAX	MAXIMUM
BP	BEGINNING OF PROJECT	MIN	MINIMUM
BVCE	BEGIN VERTICAL CURVE ELEVATION	MHMAC	MINOR HOT MIX ASPHALT CONCRETE
BVCS	BEGIN VERTICAL CURVE STATION	NOM	NOMINAL
CL	CENTERLINE	OF	OUTER FACE
C-C	CENTER TO CENTER	O-O	OUT TO OUT
CTR	CENTER	OHW	ORDINARY HIGH WATER
DIA, Ø	DIAMETER	PC	POINT OF CURVE
DWG	DRAWING	PI	POINT OF INTERSECTION
ELEV	ELEVATION	PT	POINT OF TANGENT
EOP	EDGE OF PAVEMENT	PVI	POINT OF VERTICAL INTERSECTION
EOS	EDGE OF SHOULDER	REINF	REINFORCEMENT
EP	END OF PROJECT	RT	RIGHT
EVCE	END VERTICAL CURVE ELEVATION	SHLDR	SHOULDER
EVCS	END VERTICAL CURVE STATION	SHT	SHEET
EX, EXTG	EXISTING	SL	SLOPE
EA	EACH	STA	STATION
IE	INVERT ELEVATION	STD	STANDARD
IF	INNER FACE	TANG	TANGENT
K	LENGTH OF CURVE/ DIFFERENCE IN GRADE	TYP	TYPICAL
L	LENGTH	VC	VERTICAL CURVE

LEGEND	
	CONTOURS
	RIGHT OF WAY
	EXISTING/NEW CENTERLINE
	EXISTING EDGE OF PAVEMENT
	EXISTING SHOULDER
	EXISTING DRIVEWAY
	EXISTING OVERHEAD POWER LINES
	EXISTING UNDERGROUND TELEPHONE
	EXISTING FENCE
	EXISTING GUARDRAIL
	EXISTING TOP OF BANK
	EXISTING CREEK
	EDGE OF PAVEMENT
	SHOULDER
	SAW CUT LINE
	DRAINAGE CURB
	SEDIMENT BARRIER
	RIGHT OF WAY
	CATCHLINES
	EXISTING SIGN & POST
	SIGN & POST
	EXISTING POWER POLE AND GUY WIRE
	GUARDRAIL
	PAVING LIMITS

NOTES:

- PROPERTY LINES AND INFORMATION AND EXISTING STRUCTURES ARE SHOWN FOR REFERENCE PURPOSES ONLY.
- PROTECT ALL SURVEY MONUMENTS AND PROPERTY PINS.
- UNLESS OTHERWISE NOTED OR ORDERED BY THE ENGINEER, CLEAR AND GRUB TO THE PROPOSED CATCH LINES.
- UNLESS OTHERWISE NOTED OR ORDERED BY THE ENGINEER, CUT, DECK, & PLACE ALL TREES 10in OR LARGER IN DIAMETER AT A LOCATION SELECTED BY THE RESPECTIVE PROPERTY OWNER. TREE SYMBOL SHOWN DOES NOT REPRESENT ACTUAL SIZE OR QUANTITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE PRIOR TO PLACING A BID IN ORDER TO DETERMINE THE EXACT SIZE AND QUANTITIES OF THE TREES AND OTHER MATERIALS THAT WILL NEED TO BE CLEARED AND GRUBBED.



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			DESIGNED BY: A. Potts	CHECKED BY: K. Groom
			DRAFTED BY: A. Potts	REVIEWED BY: C. Knoll

BERLIN ROAD: HAMILTON CREEK BRIDGE

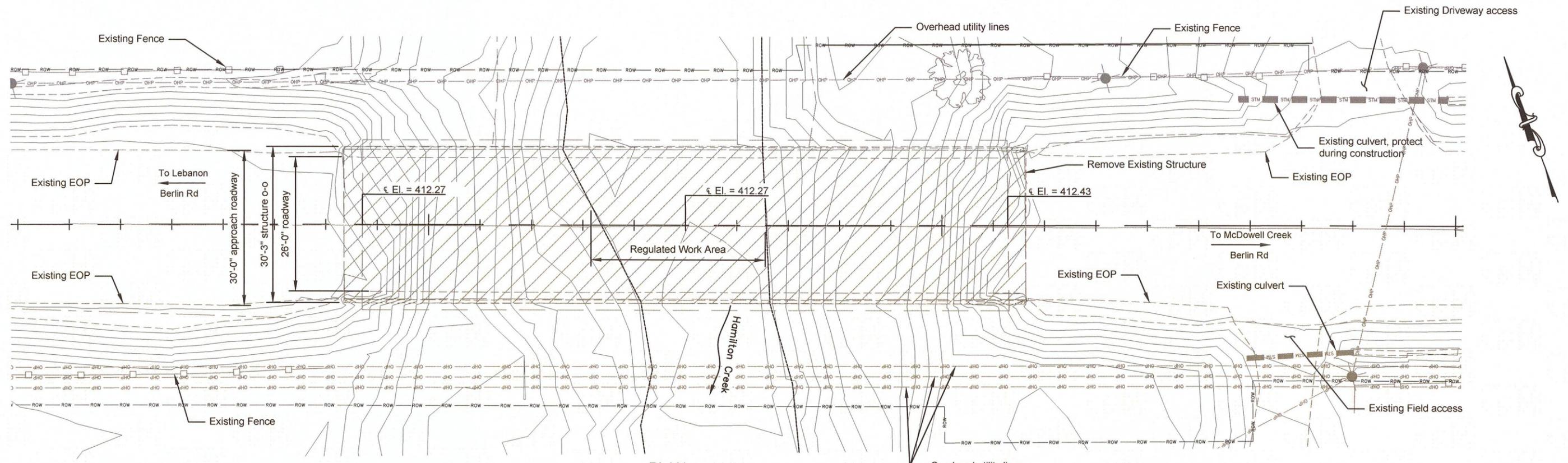
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SHEET INDEX, LEGEND, NOTES, STANDARD DRAWINGS & ABBREVIATIONS

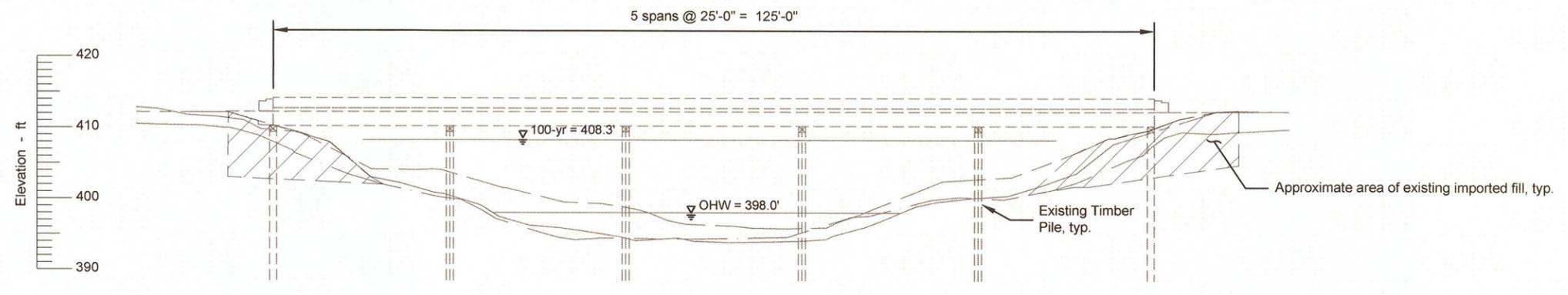
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PLAN
1" = 20'-0"



Note:
Elevations are based on
NAVD88 (M.S.L. = 0.00)

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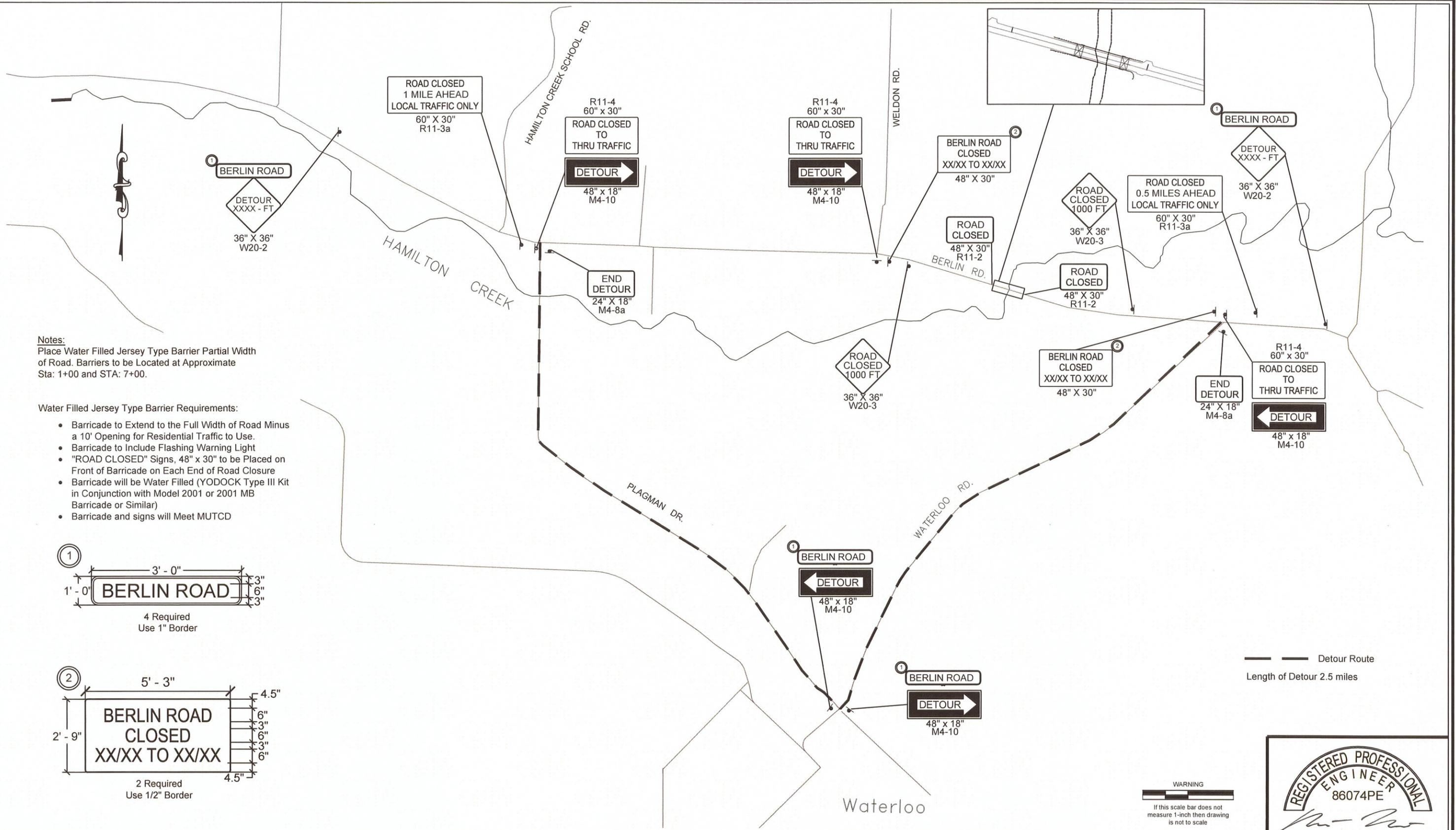
BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

EXISTING STRUCTURE	
SCALE: 1" = 20'	SHEET 3

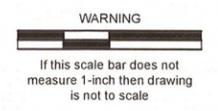
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Notes:
Place Water Filled Jersey Type Barrier Partial Width of Road. Barriers to be Located at Approximate Sta: 1+00 and STA: 7+00.

- Water Filled Jersey Type Barrier Requirements:**
- Barricade to Extend to the Full Width of Road Minus a 10' Opening for Residential Traffic to Use.
 - Barricade to Include Flashing Warning Light
 - "ROAD CLOSED" Signs, 48" x 30" to be Placed on Front of Barricade on Each End of Road Closure
 - Barricade will be Water Filled (YODOCK Type III Kit in Conjunction with Model 2001 or 2001 MB Barricade or Similar)
 - Barricade and signs will Meet MUTCD

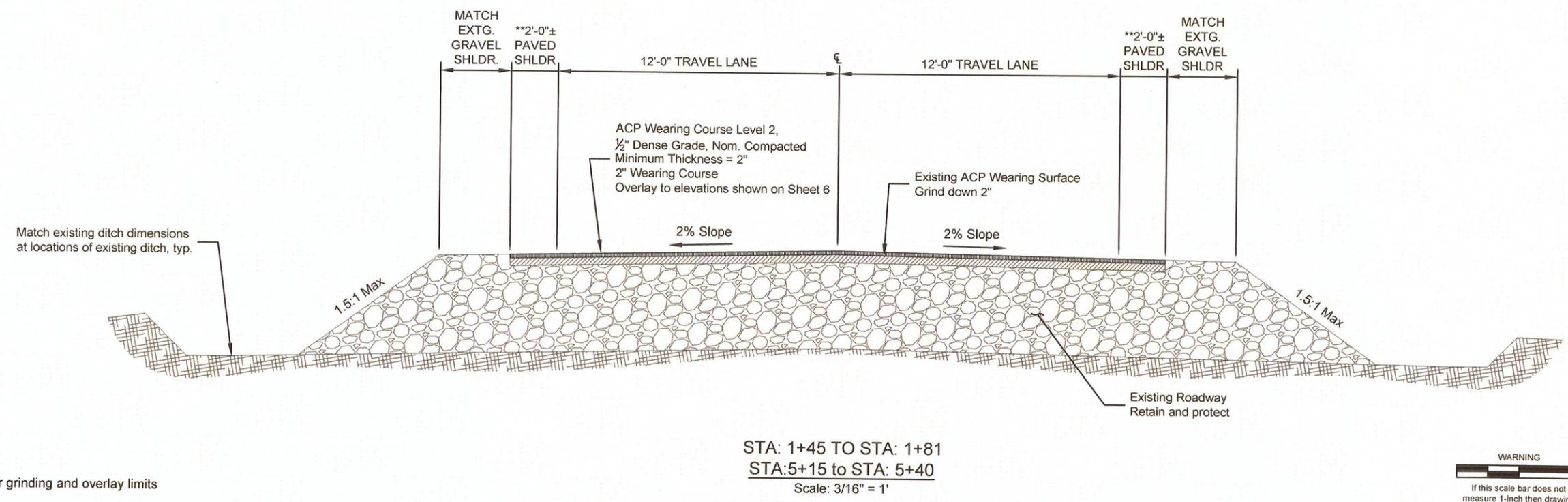
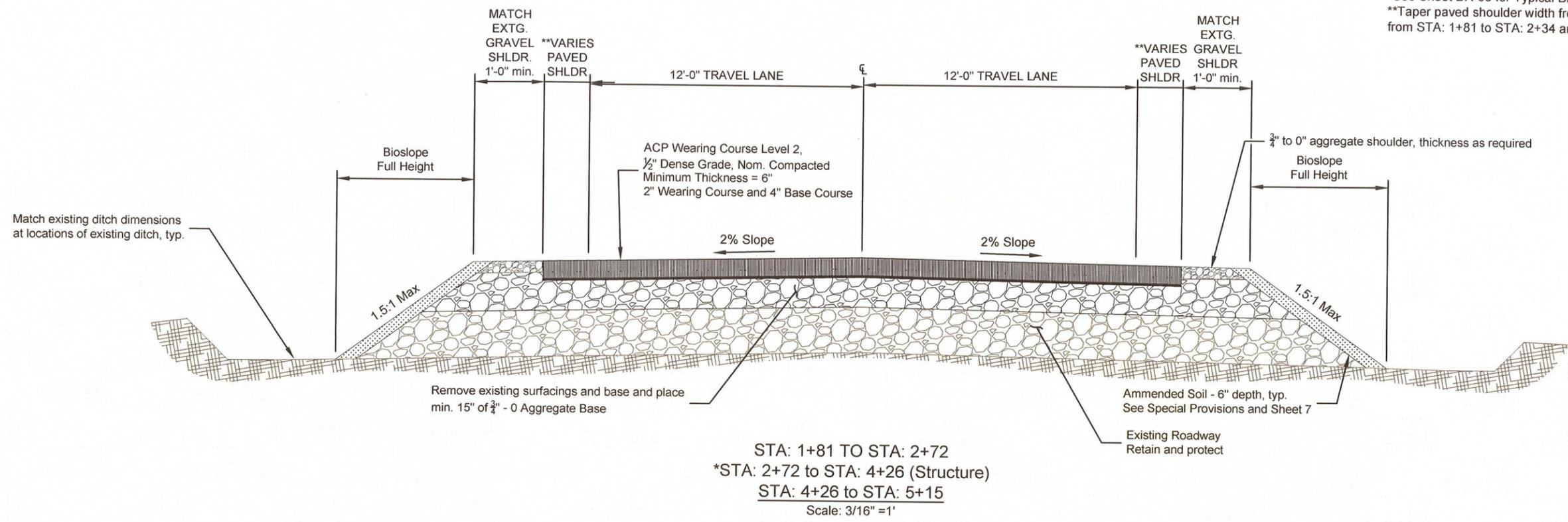


REGISTERED PROFESSIONAL ENGINEER
86074PE
ANDREW T. POTTS
OREGON
DECEMBER 31, 2016
Expires: 12/31/20

<p>LINN COUNTY ROAD DEPARTMENT 3010 FERRY STREET SW ALBANY, OREGON 97322 PHONE: (541) 967-3919 FAX: (541) 924-0202 E-MAIL: Roads@co.linn.or.us</p>	<p>COUNTY COMMISSION ROGER NYQUIST CHAIRMAN JOHN LINDSEY WILLIAM TUCKER</p>	<p>ROADMASTER DARRIN L. LANE, P.E. COUNTY ENGINEER CHARLES R. KNOLL, P.E.</p>	DATE:	REVISION:	BY:	BRIDGE NO: 0020B-0490	DATE: 02/18/2020	<p>BERLIN ROAD: HAMILTON CREEK BRIDGE</p> <p>LINN COUNTY</p>	TRAFFIC CONTROL PLAN				
						PROJECT NO: CB1303					SCALE: NTS	SHEET 4	
						TRS: T. 12 S., R. 01 W., SEC. 21							
						DESIGNED BY: A. Potts	CHECKED BY: K. Groom						
						DRAFTED BY: A. Potts	REVIEWED BY: C. Knoll						

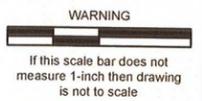
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*See Sheet BR-05 for Typical Bridge Section (STA: 2+92 to STA: 4+06).
**Taper paved shoulder width from 4'-8" at bridge end to 2'-0" at 20:1 taper from STA: 1+81 to STA: 2+34 and from STA: 4+62 to STA: 5+15.



Note:
Elevations are based on NAVD88 (M.S.L. = 0.00)

NOTE: See Sheet 6 for grinding and overlay limits



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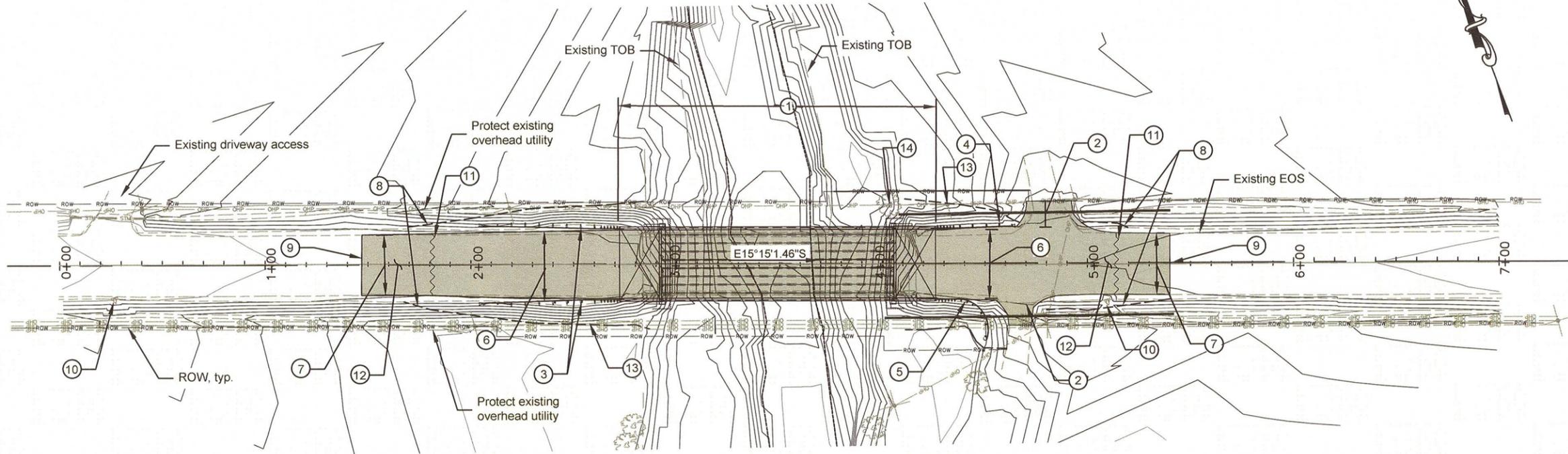
BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

TYPICAL SECTIONS	
SCALE: As Shown	SHEET 5

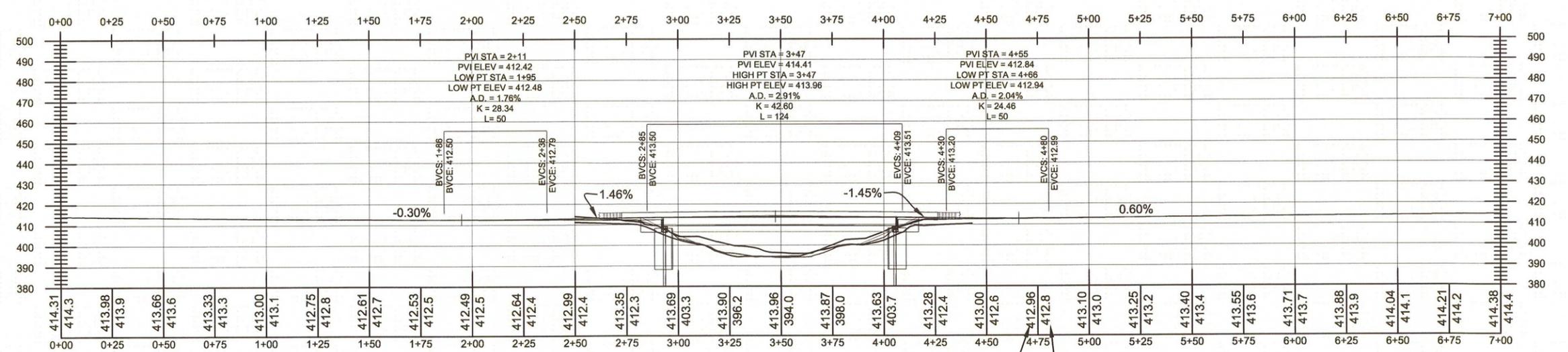
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OREGON
Expires: 12/31/20

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PLAN
1" = 60'-0"

STA: 0+00 to STA: 7+00



PROFILE
1" = 60'-0"

- 1 Berlin Road: Hamilton Creek Bridge. County Br. No. 0020B-0490. Construct proposed bridge as shown in Sheets BR-01 to BR-09. Remove existing bridge.
- 2 Install 15' beyond EOP, asphalt pavement overlay at existing driveways. Raise grade of driveway accesses to match into new roadway elevations. Widen driveway at STA: 4+73 to STA: 4+87 LT to 22' wide from STA 4+70 to STA 4+92 LT. Overlay only driveway at STA: 4+59 to STA: 4+74 RT.
- 3 Install Guardrail Connector, Guardrail transition, 12.5' of Type 3 Guardrail, and Non-Flared Guardrail Terminal (Test Level 3), W = 1'-4" from end of bridge rail to STA: 2+34 RT and LT, per Std. Dwg. RD400, RD405, RD410, RD415, RD420, RD440, and BR203.
- 4 Install Guardrail Connector, Guardrail transition, and BEAT-SSCC-32 Single Sided Crash Cushion Guardrail Terminal (Test Level 3), W = 2', L = 32', or approved equal from end of bridge rail to STA: 4+57 LT, per manufacturers drawings and procedures.
- 5 Install Guardrail Connector, Guardrail transition, 18.75' of Type 4 Guardrail, and Thrie beam end piece (Type B) with Type 1 modified anchor, R = 15' Tang. sec. = 12'-6". From end of bridge rail to STA: 4+51 RT, per Std. Dwg. RD400, RD405, RD410, RD415, RD420, RD440, DET1455, BR203 and BR233.
- 6 Rebuild roadway approach with 6" ACWS and 15" of compacted base aggregate to finished ground elevations shown in Profile from STA: 1+81 to STA: 2+72 and STA: 4+26 to STA: 5+15. Taper roadway width from existing to match new bridge roadway width.
- 7 Match existing roadway width and install a minimum 2" asphalt pavement overlay matching elevations shown in profile from STA: 1+45 to STA: 1+81 and STA: 5+15 to STA: 5+40.
- 8 Install 3/4" - 0 Aggregate shoulder rock LT and RT from STA: 1+45 to STA: 2+80 and STA: 4+22 to STA: 5+40. Match existing shoulder widths.
- 9 Sawcut existing pavement from EOP to EOP at STA: 1+45 and STA: 5+40. 2" deep w/vertical face.
- 10 Retain and protect existing mailboxes. STA: 0+28 RT and STA: 5+10 RT
- 11 Sawcut existing pavement perpendicular to traffic across roadway at STA: 1+81 and STA: 5+15 and beyond existing bridge ends prior to bridge removal.
- 12 Grind down 2" - 0" from STA: 1+45 to STA: 1+70 and STA: 5+15 to STA: 5+40.
- 13 Remove and rebuild property fence along existing Right of Way lines from STA: 4+24 to STA: 4+72 LT., and STA: 2+11 to STA: 2+83 RT. Connect back to existing fence. See Std. Dwg. RD810 Type 2 for fence details. Coordinate schedule and specifics of work with affected property owner before beginning any fence removal work.
- 14 Cut, deck, and place existing tree on property 31831 Berlin Rd.

Note:
Elevations are based on
NAVD88 (M.S.L. = 0.00)

WARNING
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REGISTERED PROFESSIONAL
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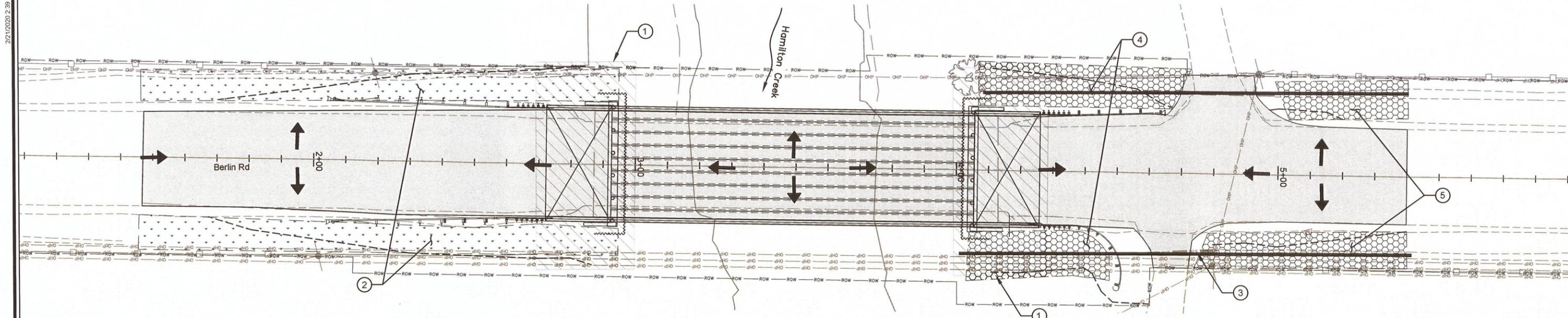
BRIDGE NO: 0020B-0490 DATE: 02/18/2020
PROJECT NO: CB1303
TRS: T. 12 S., R. 01 W., SEC. 21
DESIGNED BY: A. Potts CHECKED BY: K. Groom
DRAFTED BY: A. Potts REVIEWED BY: C. Knoll

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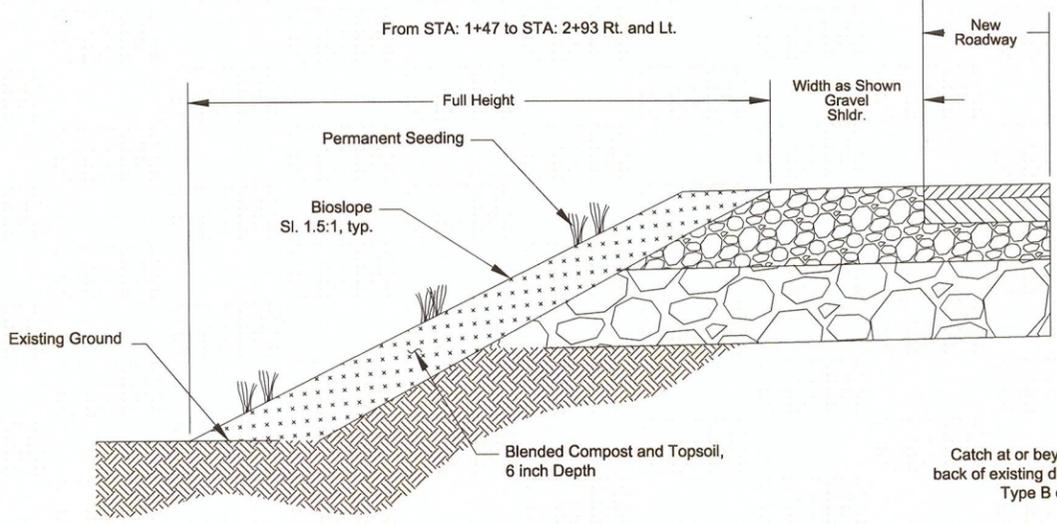
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PLAN & PROFILE
SCALE: As Shown SHEET 6

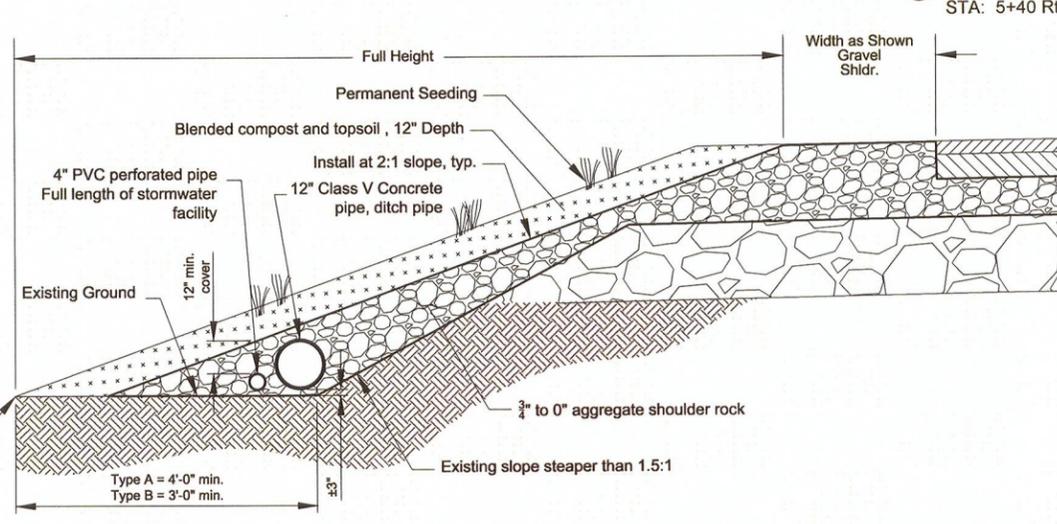
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- ① Footprint of existing fill. Depth to approximately EI = 403.0
- ② Construct Bioslope per detail this Sheet and Specifications. Blended compost and topsoil mixture per Section 1013. Install permanent seeding on Bioslopes per Section 1030. STA: 1+47 to STA: 2+93 Rt. and Lt.
- ③ Install ditch culvert pipe, 12" Class V Concrete Pipe connecting existing ditch and daylighting a min. 12" on both ends. Rt. Pipe Beginning IE = 404.5', End IE = 408.9', min. length = 140.0'. STA: 4+01 Rt. to STA: 5+42 Rt. Lt. Pipe Beginning IE = 404.5', End IE = 408.8', min. length = 132.0'. STA: 4+08 Lt. to STA: 5+40 Lt. Install Class 100 Riprap at outlets approximately 36"W x 36"L x 18"D = 0.5 cu. yd. ea. outlet.
- ④ Install stormwater facility type A per detail this Sheet and per Section 1092. STA: 4+05 to STA: 4+48 Rt. and STA: 4+08 to STA: 4+70 Lt.
- ⑤ Install stormwater facility type B per detail this Sheet and per Section 1092. STA: 4+75 to STA: 5+40 Rt. and STA: 4+92 to STA: 5+40 Lt.



BIOSLOPE DETAIL
Scale: NTS



STORMWATER FACILITY DETAIL
Scale: NTS

LEGEND

- BIOSLOPE
- STORMWATER FACILITY A/B
- EXISTING FILL FOOTPRINT
- FLOW DIRECTION

WARNING
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Note:
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BRIDGE NO:	0020B-0490	DATE:	02/18/2020
PROJECT NO:	CB1303		
TRS:	T. 12 S., R. 01 W., SEC. 21		
DESIGNED BY:	A. Potts	CHECKED BY:	K. Groom
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BERLIN ROAD: HAMILTON CREEK BRIDGE

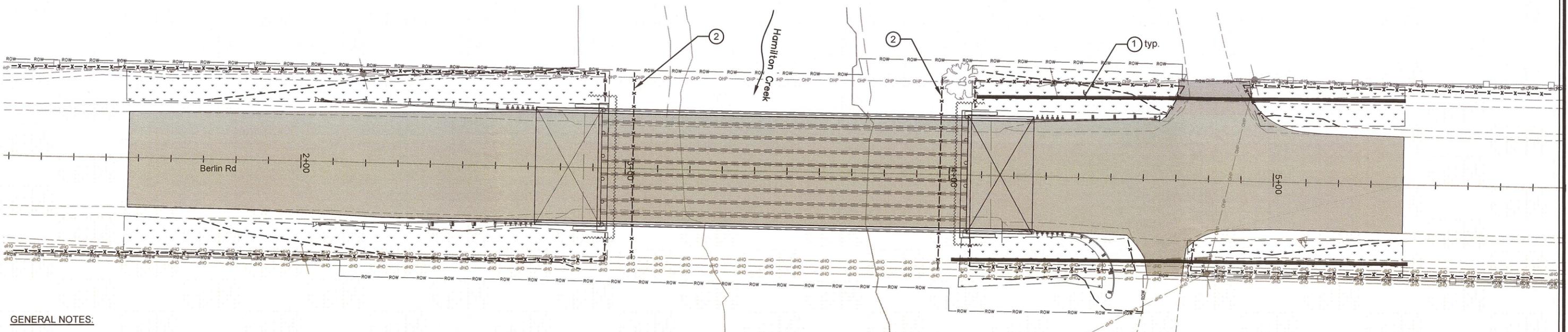
LINN COUNTY

STORMWATER DRAINAGE PLAN

SCALE: 1" = 30'
SHEET 7

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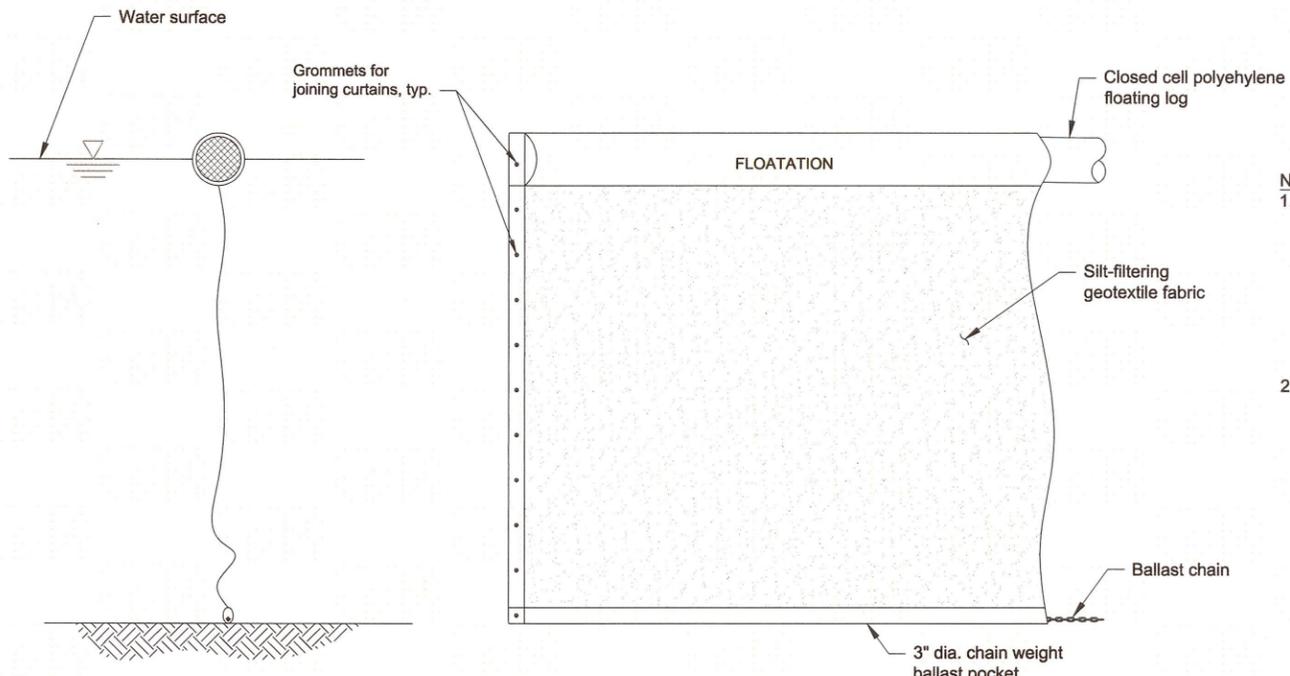
GENERAL NOTES:

1. The implementation of the erosion control plans and the construction, maintenance, replacement and upgrading of the erosion control facilities are the responsibility of the contractor until all construction is completed and approved.
2. Installation, construction, and maintenance of erosion control facilities shall begin prior to clearing, grading or other earth altering activities.
3. The erosion control facilities shown on this plan are anticipated for site conditions. During the construction period these facilities shall be upgraded for unexpected storm events and to ensure that sediment and sediment laden water does not leave the site or enter the Creek.
4. Develop a revised plan of the erosion control facilities shown in accordance with the requirements of section 00280 for the 2018 Oregon Standard Specifications for Construction. This plan must be constructed in conjunction with all clearing and grubbing activities. Construct in such a manner as to ensure that construction debris, sediment and sediment laden water does not enter the drainage system, roadway, or violate applicable water standards. Construct controls in segments applicable to each staging phase.
5. All vegetated areas disturbed during construction shall be permanently seeded.
6. No equipment shall enter into wetlands or the active channel of Hamilton Creek.
7. No contaminated water or debris shall enter into the active channel of Hamilton Creek.
8. A Work Containment System Plan shall be approved by the engineer prior to installation.

LEGEND

- PERMANENT SEEDING
- SEDIMENT BARRIER

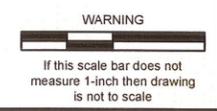
1. Install permanent seeding on all ground disturbed by construction. Area directly under new bridge superstructure may be excluded from seeding.
2. Install Type 8 (Compost filter sock) Sediment Barrier for activities During removal of Existing Bridge and Construction of New Bridge per Std Dwg RD1032. Extent and Location is Approximate and Subject to Change Based on Conditions in the Field.
3. A floating silt curtain shall be installed completely surrounding each line of existing pile except the upstream side and remain in place during pile removal. See detail, this Sheet. Sandbags wrapped in a plastic may also be used if the water level is below 3 feet in depth.
4. Install a oil boom downstream within 50 feet of the existing structure during pile removal.



FLOATING SILT CURTAIN
NO SCALE

- Notes:**
1. Floating silt curtain shall be a "Layfield FSC7" or approved equal. The body of the floating silt curtain is made from a strong, high-filtration fabric that retains fine silts and sediments on-site. The float and bottom sleeve are constructed from a UV-stable, high-strength polyethylene (i.e. ripstop-tyt material). The floating silt curtain is increased in length by joining additional sections of curtain, which typically come in 50-foot lengths.
 2. If water elevation is low enough, contractor may elect to use sand bags filled with clean river run rock. Place bags at river's edge as directed by the Engineer.

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PHONE: (541) 967-3919
FAX: (541) 924-0202
E-MAIL: Roads@co.linn.or.us

COUNTY COMMISSION
ROGER NYQUIST
CHAIRMAN
JOHN LINDSEY
WILLIAM TUCKER

ROADMASTER
DARRIN L. LANE, P.E.
COUNTY ENGINEER
CHARLES R. KNOLL, P.E.

DATE:	REVISION:	BY:	BRIDGE NO: 0020B-0490	DATE: 02/18/2020
			PROJECT NO: CB1303	
			TRS: T. 12 S., R. 01 W., SEC. 21	
			DESIGNED BY: A. Potts	CHECKED BY: K. Groom
			DRAFTED BY: A. Potts	REVIEWED BY: C. Knoll

BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

EROSION CONTROL PLAN

SCALE: 1" = 30'

SHEET 8

REGISTERED PROFESSIONAL ENGINEER
86074PE

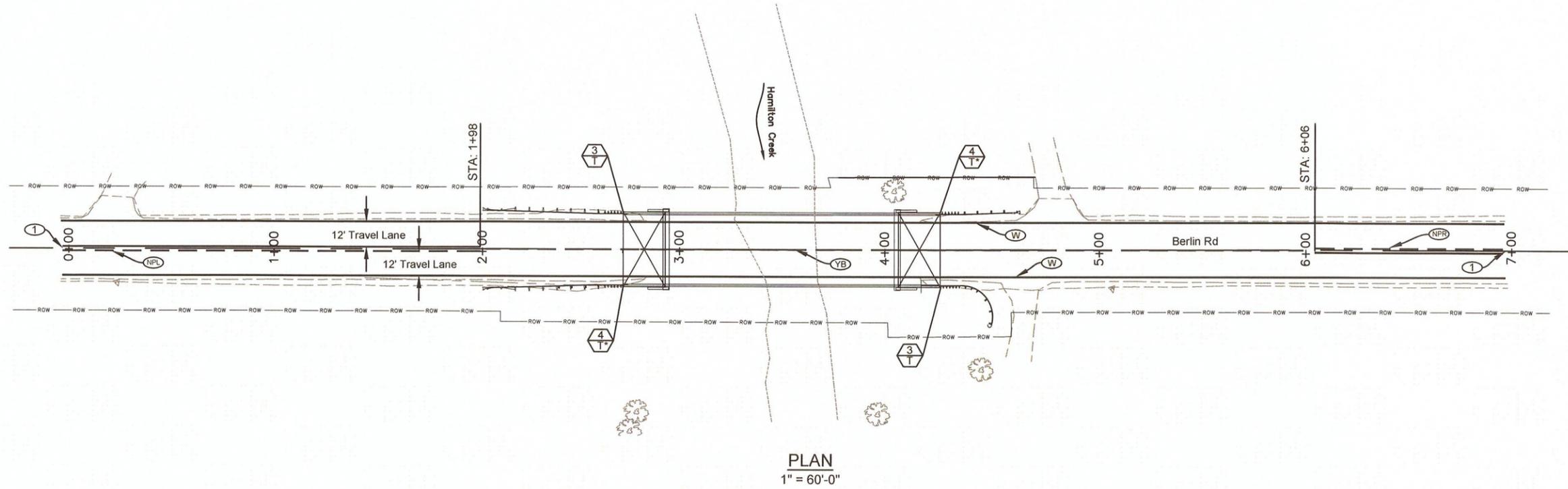
ANDREW T. POTTS

DECEMBER 31, 2016

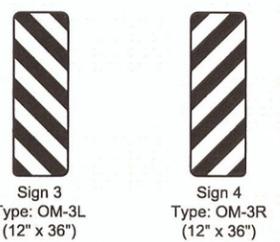
Expires: 12/31/20

K:\Projects - Current\BR 0020B-0490 Hamilton Creek - Berlin Road\Drawings\Base Map.dwg

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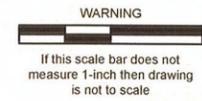
PLAN
1" = 60'-0"



- Signing Notes:**
- The locations of sign installations shown are approximate with exact locations to be determined in the field.
 - Install signs per ODOT Standard Drawings TM676, TM681, TM687 and the PSST sign anchor detail shown on this sheet
 - All signs shall meet the requirements of the most current Manual on Uniform Traffic Control Devices (MUTCD).
 - Install such that inside edge of OM-3 signs are flush with face rail and bottom edge is 4'-0" from pavement.

NOTE:
The Contractor is to Remove Any Existing Striping or Pavement Markings that Conflict with the New Striping or Markings.

- ① Match to Existing Striping
- NPR 4" Yellow Lines, No-Pass Right
Shown Thus: (See TM500)
- YB 4" Yellow Broken Line
Shown Thus: (See TM500)
- W 4" White Line
Shown Thus: (See TM500)
- NPL 4" Yellow Lines, No-Pass Left
Shown Thus: (See TM500)



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DESIGNED BY:	A. Potts	CHECKED BY:	K. Groom
DRAFTED BY:	A. Potts	REVIEWED BY:	C. Knoll

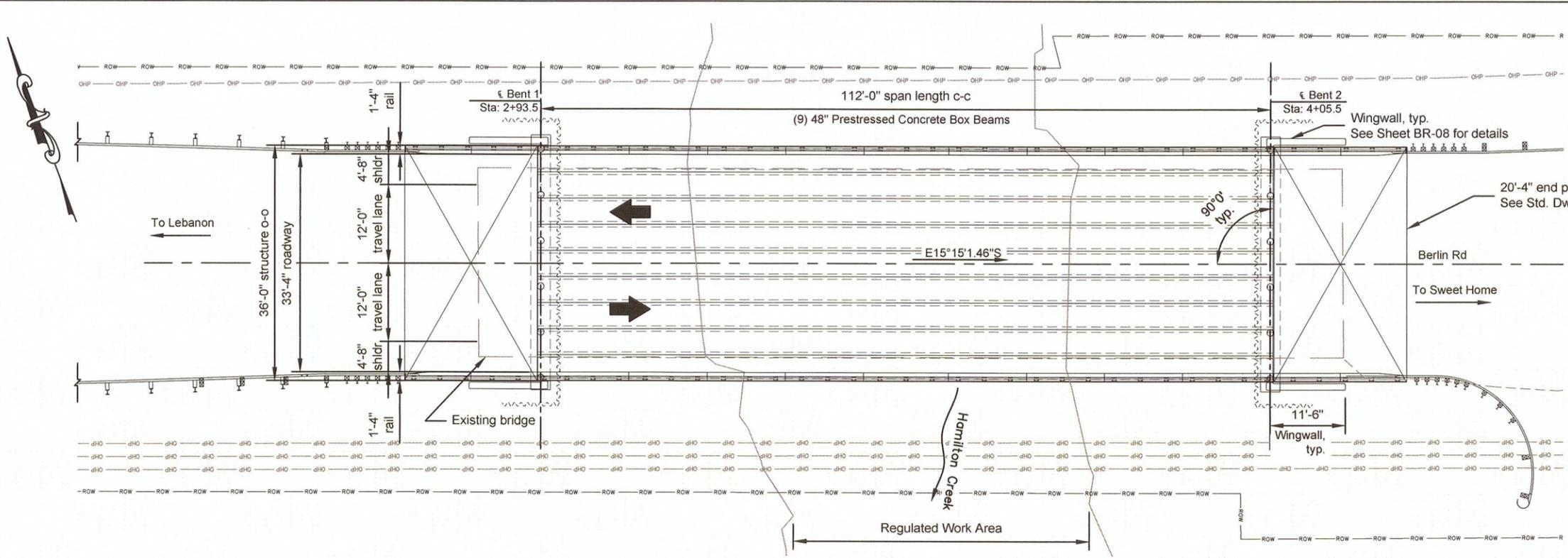
BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

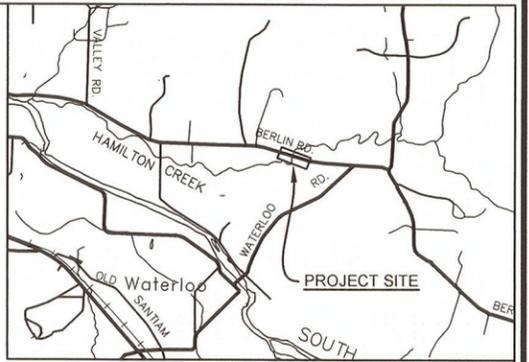
SIGNING & STRIPING PLAN

SCALE: As Shown SHEET 9

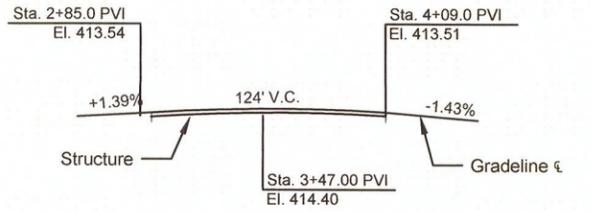
2/21/2020 2:41 PM



PLAN
1" = 20'-0"

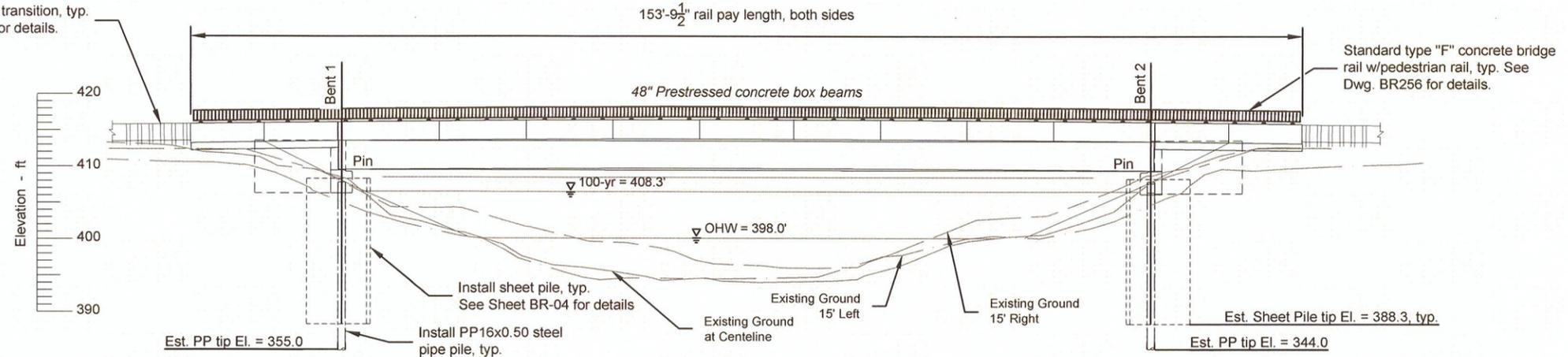


T. 12 S. R. 01 W., SEC. 21
LOCATION MAP
NO SCALE



GRADE LINE DIAGRAM
NO SCALE

Standard guardrail transition, typ.
See Dwg. BR203 for details.

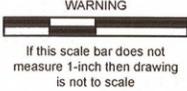


ELEVATION
1" = 20'-0"

HYDRAULIC DATA TABLE				
ITEMS	UNITS	DESIGN FLOOD*	BASE FLOOD*	MAX. PROB. FLOOD*
Frequency	Years	100	100	500
Discharge	cfs	4792	4792	6330
H.W. elev. @ upstr. face of bridge	ft	408.3	408.3	409.6
Backwater	ft	0	0	0

*Based on new bridge
+Based on existing bridge

Note:
Elevations are based on
NAVD88 (M.S.L. = 0.00)



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DESIGNED BY: A. Potts CHECKED BY: K. Groom
DRAFTED BY: A. Potts REVIEWED BY: C. Knoll

BERLIN ROAD: HAMILTON CREEK BRIDGE
LINN COUNTY

BRIDGE PLANS
PLAN & ELEVATION
SCALE: As Shown SHEET BR-01



K:\Projects - Current\BR 0020B-0490 Hamilton Creek - Berlin Road\Drawings\Basis Map.dwg 2/21/2020 2:42 PM

General Notes:

Provide all materials and perform all work according to the ODOT/APWA 2018 Oregon Standard Specifications for Construction 2018 and the Special Provisions.

Bridge is designed in accordance with the AASHTO "LRFD Bridge Design Specification," 2017 Edition with an allowance for present wearing surface and 25 psf for future wearing surface and all of the following Live Loads:

Service and Strength I Limit States:

HL-93: Design truck (or trucks per LRFD 3.6.1.3) or the design tandems and the design lane load.

Strength II Limit State:

- ODOT Type STP-5BW Permit truck
- ODOT Type STP-4E Permit truck

Seismic design is performed in accordance with the "AASHTO LRFD Bridge Design Specifications" ("AASHTO Guide Specifications for LRFD Seismic Bridge Design") as modified by the "ODOT Bridge Design Manual" for 500- and 1000-year criteria. The Horizontal Peak Ground Acceleration Coefficients (PGA) for the 500 year (Serviceable) and 1000 year (No Collapse) return periods are 0.15g and 0.21g, respectively, based on 2014 USGS Seismic Hazard Maps. The bridge site is defined as a Site Class D with a site factor (F_{pga}) of 1.39.

Provide all reinforcing steel according to ASTM Specification A706, or ASTM A615 Grade 60. Provide field bent or welded reinforcement according to ASTM Specification A706. Splice reinforcing steel at alternate bars, staggered at least one splice length or as far as possible, unless shown otherwise. Provide the following splice lengths, unless shown otherwise:

Bar Size	Reinforcing Splice Lengths (Class B) Grade 60 f _c = 3.3 ksi									
	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14 & #18
Uncoated	1'-0"	1'-4"	1'-8"	2'-0"	2'-9"	3'-7"	4'-6"	5'-9"	7'-0"	Not permitted
Coated (1)	1'-2"	1'-7"	2'-0"	2'-5"	3'-3"	4'-3"	5'-5"	6'-10"	8'-5"	Not permitted
Coated (2)	1'-6"	2'-0"	2'-6"	3'-0"	4'-1"	5'-4"	6'-9"	8'-7"	10'-6"	Not permitted

Use Coated (1) for epoxy coated bars with cover at least 3*d_b and clear spacing between bars at least 6*d_b.

Use Coated (2) for epoxy coated bars with cover less than 3*d_b or clear spacing between bars less than 6*d_b.

Increase all splice lengths 40% for horizontal or nearly horizontal bars so placed that more than 12" of fresh concrete is cast below the bar.

Place bars 2" clear of the nearest face of concrete (except as specified in precast concrete slabs), nor closer than 3" to soil when cast against soil surfaces, unless shown otherwise.

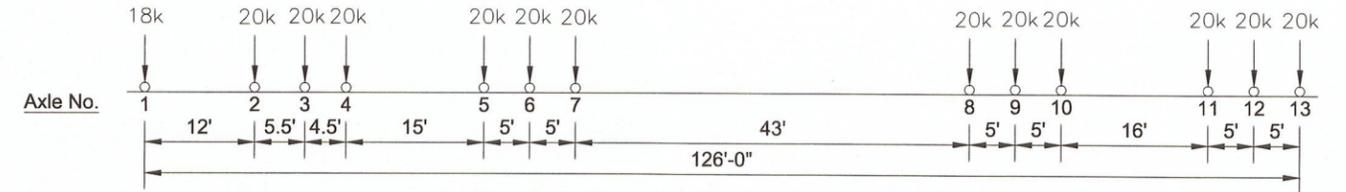
Provide Class 3300 - 1 1/2", 1" or 3/4" large aggregate size for all other concrete.

Provide concrete in the precast prestressed box beams according to the detail plans.

Provide bridge rail materials according to the ODOT Standard Drawings referenced.

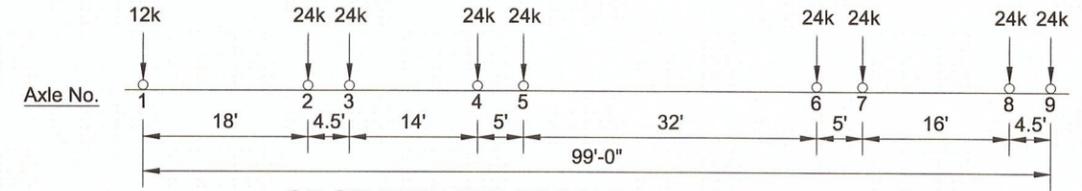
Oregon law requires the rules set forth in OAR 952-001-0010 through 952-001-0090, adopted by the Oregon Utility Notification Center, to be observed. Copies of these rules can be obtained from the Center.

Temporary slopes shall be no steeper than 1.5:1 unless shored. All slopes shall have appropriate erosion control measures which may include plastic sheeting and sediment filter socks.



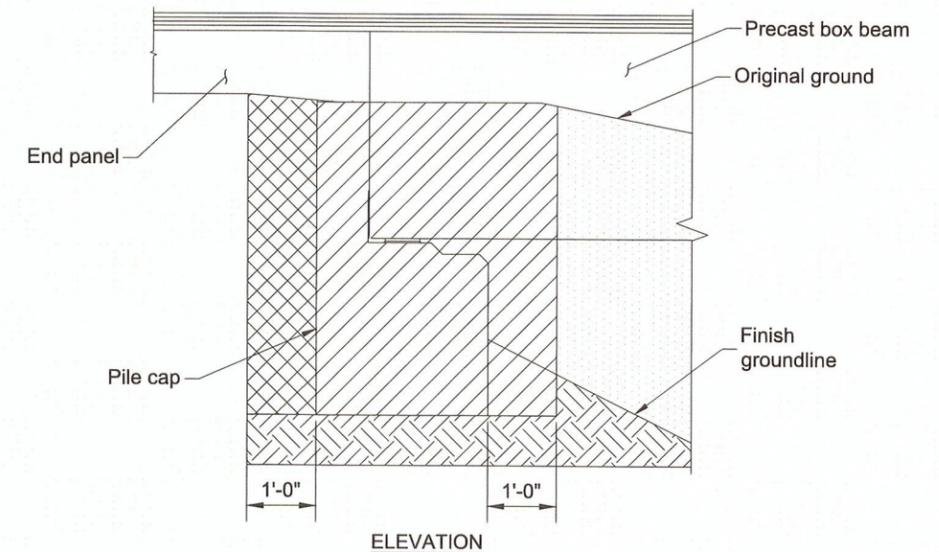
ODOT PERMIT VEHICLE TYPE OR-STP-4E

NO SCALE



ODOT PERMIT VEHICLE TYPE OR-STP-5BW

NO SCALE

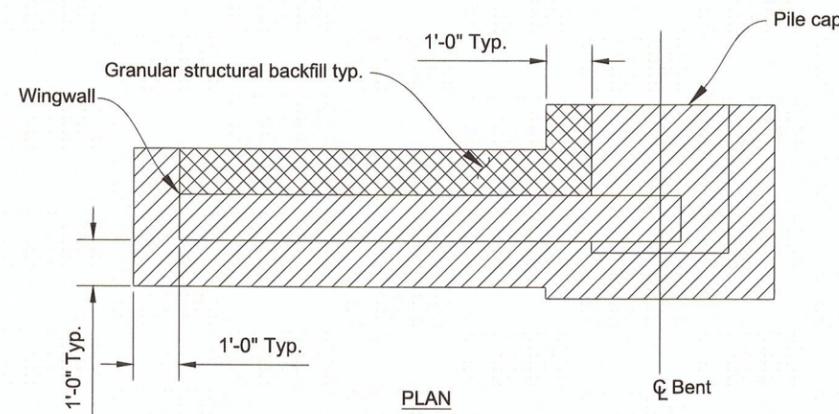


ELEVATION

- Limits of structure excavation
- Limits of granular structure backfill
- General excavation
- Existing material to remain

EXCAVATION AND BACKFILL PAY LIMITS

No Scale



PLAN



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 WILLIAM TUCKER

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DESIGNED BY:	A. Potts	CHECKED BY:	K. Groom
DRAFTED BY:	A. Potts	REVIEWED BY:	C. Knoll

BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

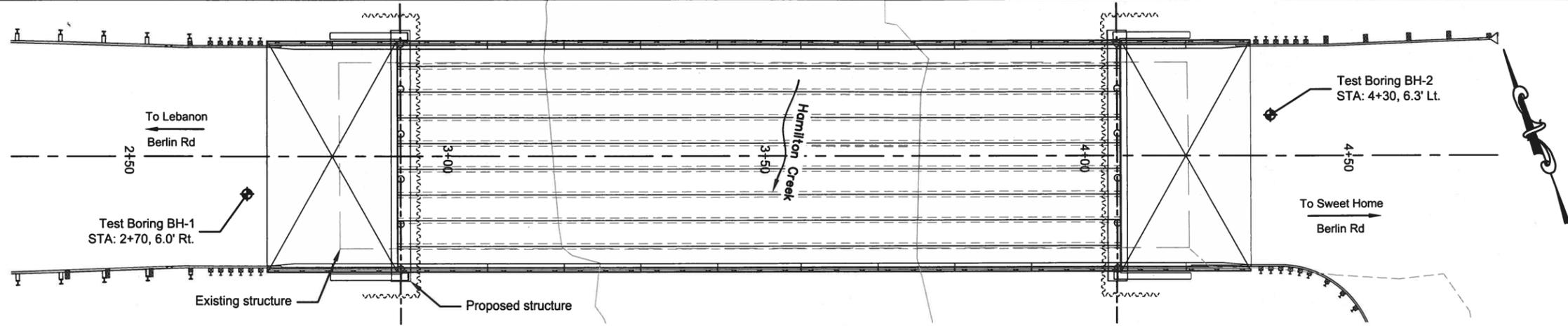
BRIDGE PLANS
GENERAL NOTES

SCALE: no scale SHEET BR-02

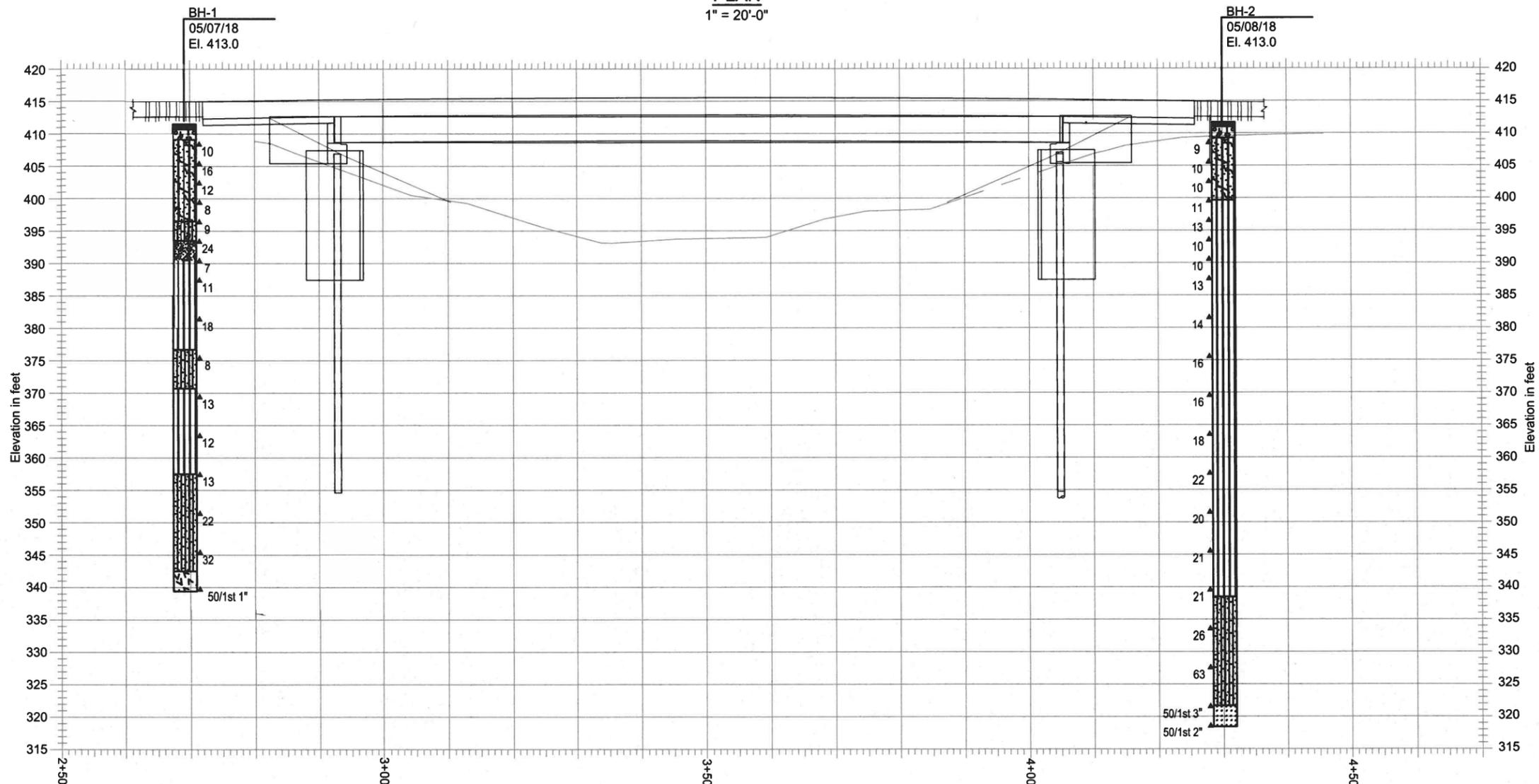
REGISTERED PROFESSIONAL ENGINEER
 86074PE

 OREGON
 DECEMBER 31, 2016
ANDREW T. POTTS
 Expires: 12/31/20

2/19/2020 3:32 PM



PLAN
1" = 20'-0"



PROFILE
1" = 20'-0"

UNIT DESCRIPTIONS

- ASPHALTIC CONCRETE
- Silty GRAVEL (GM); brown, damp, medium dense, ±1½-inch minus rounded gravel, (base rock).
- Clayey SILT, some sand and organics (MH); brown to dark brown and iron-stained, high plasticity, wet, stiff, fine to coarse sand, organics consist of fine wood debris, (fill).
- Clayey SILT, (MH); brown mottled grey or orange-brown and iron-stained, medium to high plasticity, wet, stiff, may include trace fine sand or scattered organics consisting of fine wood debris (alluvium).
- Sandy SILT, some gravel (ML); brown and iron-stained, low plasticity, wet, stiff, medium sand, fine rounded gravel, (alluvium).
- Sandy GRAVEL, some silt (GP); brown, wet, medium dense, medium to coarse sand, fine to coarse rounded gravel, (alluvium).
- Sandy SILT, trace gravel (ML); orange-brown and iron-stained, low plasticity, wet, medium stiff, fine to coarse sand, fine subangular gravel, (alluvium).
- SILT, some sand or sandy SILT (ML); yellowish light brown and iron- and manganese-stained, low plasticity, wet, stiff to hard, fine to medium sand, relict rock texture, (residual soil).
- SANDSTONE; grey mottled yellow, highly to moderately weathered, extremely soft to very soft (R0 to R1), tuffaceous and altered, (Fisher Formation).
- BASALT; dark grey, slightly weathered to fresh, soft (R2), (Fisher Formation).

- Geotechnical Boring (BH)
- Standard Penetration Test
- 2" SPT Sample
- N value

- Notes:**
- Borings were sampled with a hammer efficiency of 81.4%
 - Geotechnical foundation data shown on this drawing are a consolidation of information and/or revision in terminology from the Geotechnical Boring Logs. Boring Logs used in compiling this drawing are available upon request for review at the office of the Linn County Road Department. Contractor shall refer to the Geotechnical Report, Boring Logs, and information therein.
 - Refer to the ODOT Soil and Rock Classification Manual (1987) for a description of the terms used in this drawing.

Note:
Elevations are based on NAVD88 (M.S.L. = 0.00)

FOUNDATION ENGINEERING, INC.
PROFESSIONAL GEOTECHNICAL SERVICES
820 N.W. CORNELL AVENUE
CORVALLIS, OREGON 97330
BUS. (541) 757-7645 FAX (541) 757-7650

REGISTERED PROFESSIONAL ENGINEER
75110PE
Jonathan C. Huffman
JONATHAN C. HUFFMAN
JUNE 11, 2008
OREGON

LINN COUNTY ROAD DEPARTMENT
3010 FERRY STREET SW
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			DESIGNED BY: J. Huffman	CHECKED BY: A. Potts
			DRAFTED BY: A. Potts	REVIEWED BY: C. Knoll

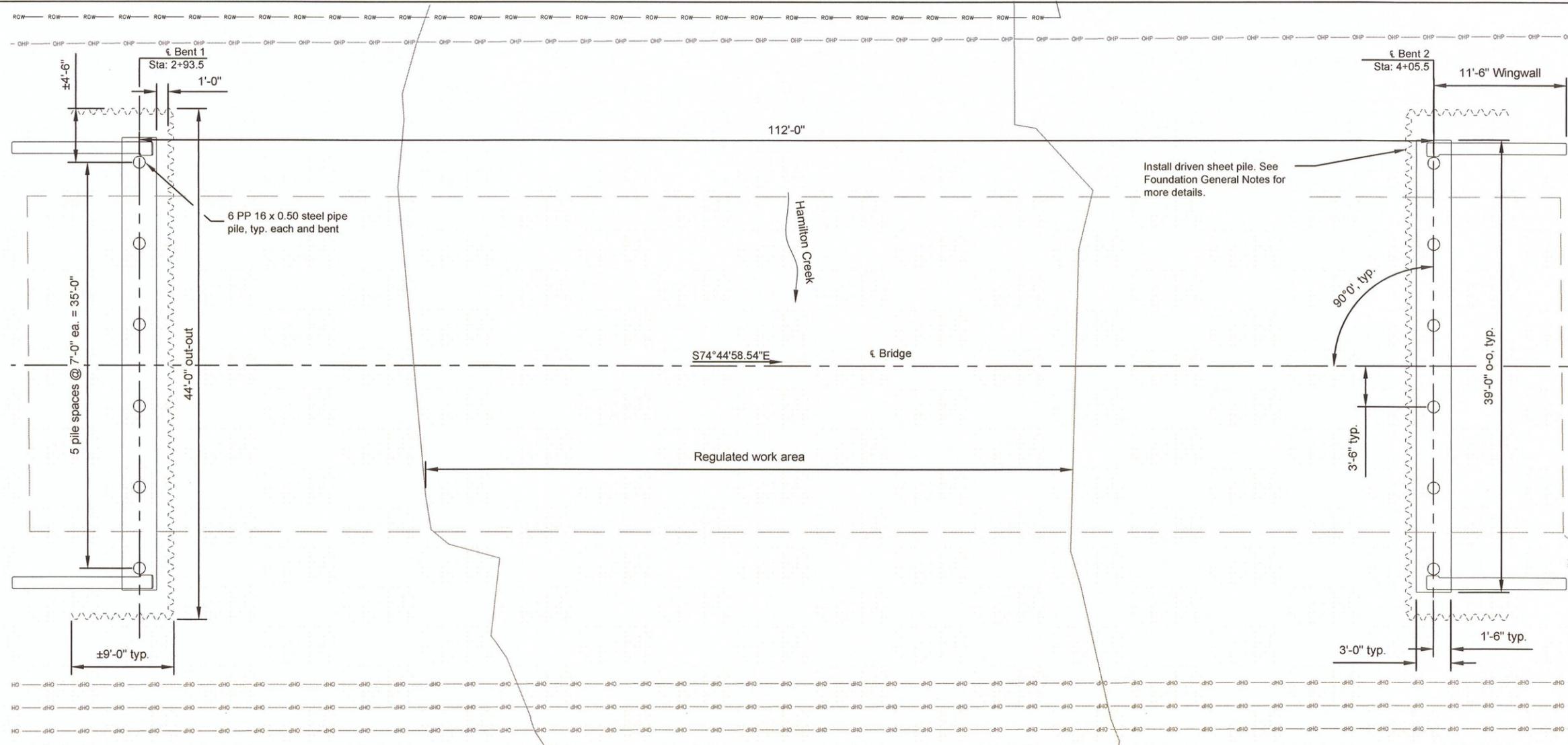
HAMILTON CREEK,
BERLIN ROAD
BRIDGE REPLACEMENT
LINN COUNTY
MARCH 2020

BRIDGE PLANS
FOUNDATION DATA SHEET
SCALE: As Shown
SHEET BR-03

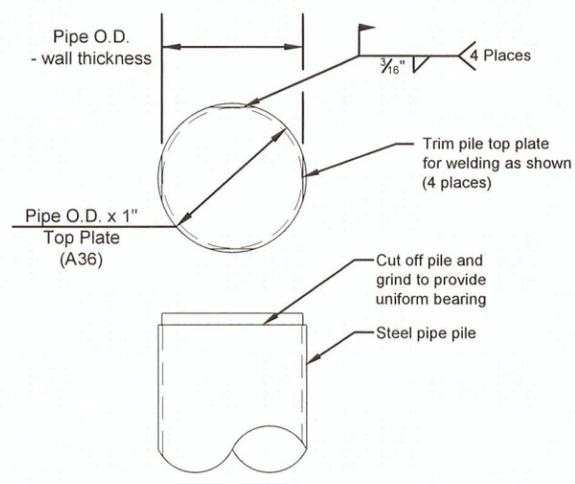
EXPIRES: 6/30/21

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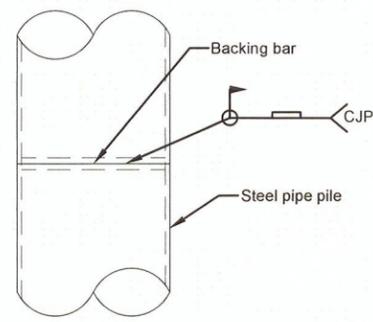
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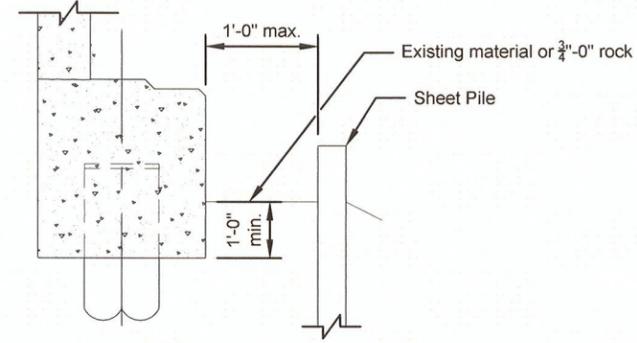
FOUNDATION PLAN
3/32" = 1'-0"



TYPICAL TOP OF PIPE PILE
No Scale



PIPE PILE SPLICE DETAIL
No Scale



BENT SOIL COVER DETAIL
No Scale

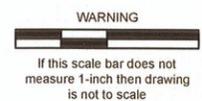
FOUNDATION GENERAL NOTES:

For all bents, provide pipe pile PP16 x 0.50 conforming to ASTM A252 (Grade 3) driven to 270 ton nominal resistance or refusal. The piles shall be driven open-ended. Limit one pile splice per pile.

Minimum pile penetration at all bents shall be EI = 365.0 feet. Drive all piling to the specified nominal resistance using driving criteria developed from FHWA Gates Equation. Provide a minimum hammer energy of 40 foot kips with a factor of safety of 2.5. Estimated tip elevations are EI = 355.0 for Bent 1 and EI = 344.0 for Bent 2.

Sheet piling shall be 20' in length and be driven so the tip elevation is EI = 387.8. The contractor should anticipate driving into dense to very dense sandy gravel at approximately EI = 388.3. All sheet pile shall have a minimum section modulus of 11.5 in³/ft, a minimum thickness of 0.317", and shall conform to the requirements of ASTM A572, Grade 50.

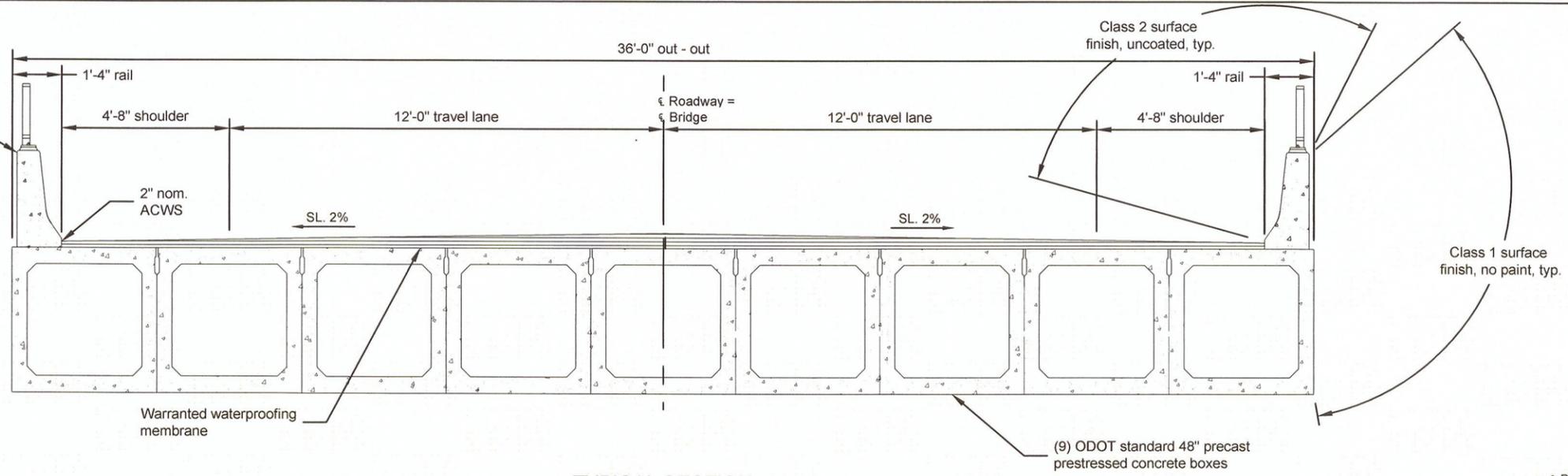
All bents are parallel with a bearing of N15°15'1.46"E



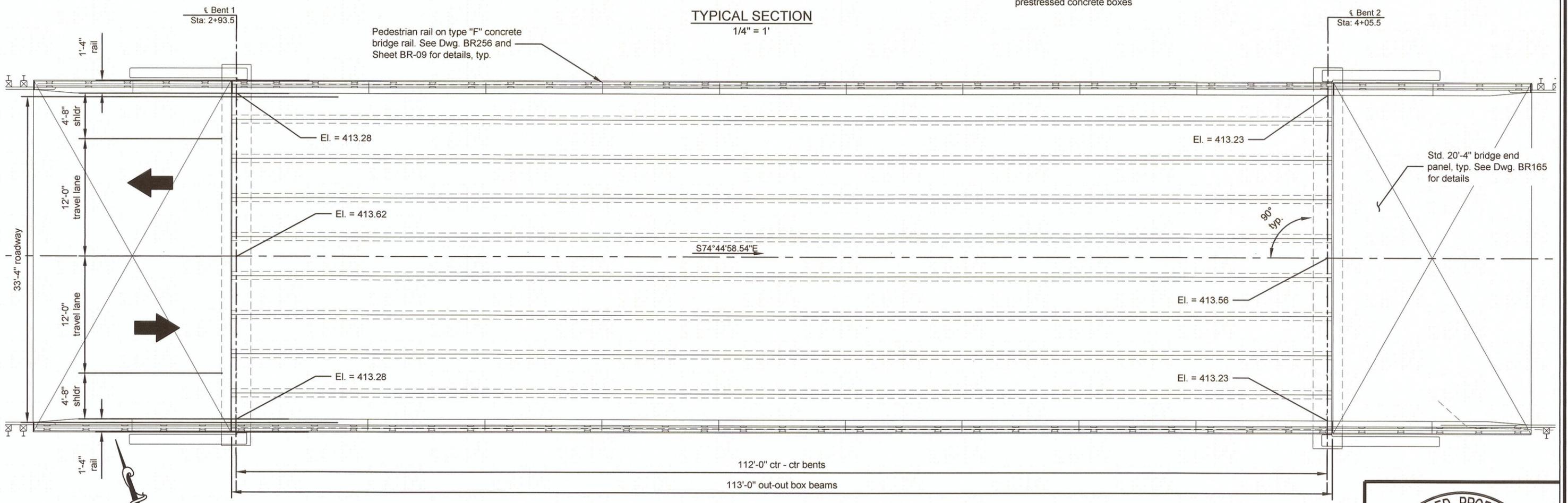
	LINN COUNTY ROAD DEPARTMENT 3010 FERRY STREET SW ALBANY, OREGON 97322 PHONE: (541) 967-3919 FAX: (541) 924-0202 E-MAIL: Roads@co.linn.or.us	COUNTY COMMISSION ROGER NYQUIST CHAIRMAN JOHN LINDSEY WILLIAM TUCKER	ROADMASTER DARRIN L. LANE, P.E. COUNTY ENGINEER CHARLES R. KNOLL, P.E.	DATE: _____ REVISION: _____ BY: _____	BRIDGE NO: 0020B-0490 PROJECT NO: CB1303 TRS: T. 12 S., R. 01 W., SEC. 21	DATE: 02/18/2020 DESIGNED BY: A. Potts DRAFTED BY: A. Potts	CHECKED BY: K. Groom REVIEWED BY: C. Knoll	BERLIN ROAD: HAMILTON CREEK BRIDGE LINN COUNTY	BRIDGE PLANS FOUNDATION PLAN & DETAILS SCALE: AS SHOWN SHEET BR-04
	Expires: 12/31/20								

K:\Projects - Current\BR 0020B-0490 Hamilton Creek - Berlin Road Drawings\Bent Map.dwg 2/21/2020 2:43 PM

Pedestrian rail on type "F" concrete bridge rail. See Dwg. BR256 and Sheet BR-09 for details, typ.



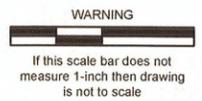
TYPICAL SECTION
1/4" = 1'



DECK PLAN
1" = 10'-0"

NOTE:
Elevations shown are finished grade at the intersection of Bent ϵ and Roadway ϵ or gutterlines.

Note:
Elevations are based on NAVD88 (M.S.L. = 0.00)



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BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

BRIDGE PLANS
DECK PLAN & TYPICAL SECTION

SCALE: As Shown SHEET BR-05

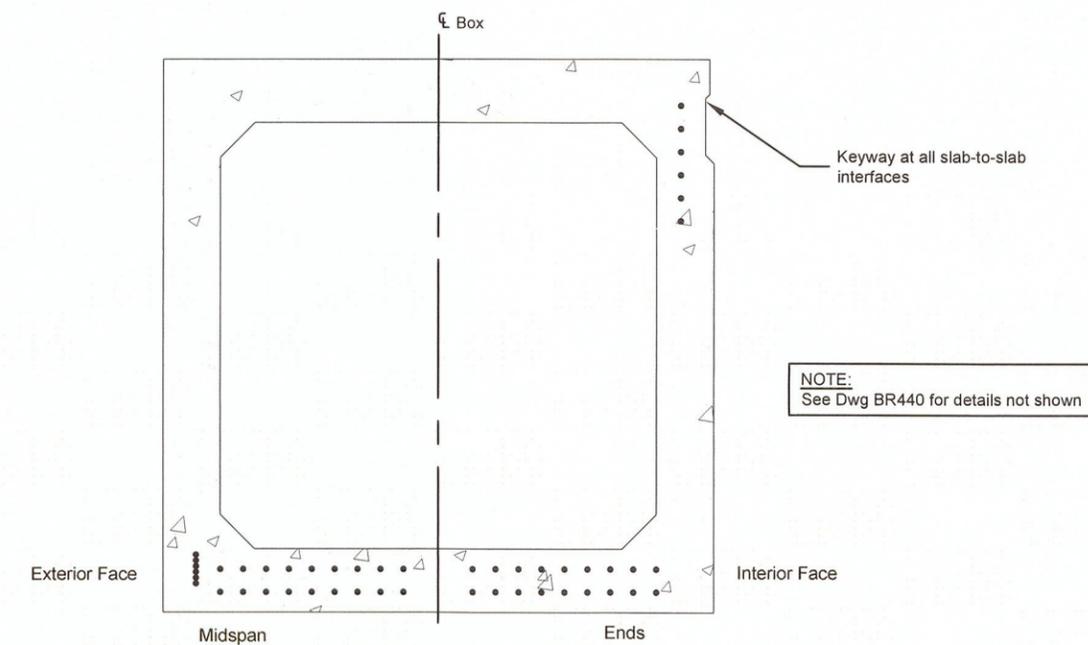
REGISTERED PROFESSIONAL ENGINEER
86074PE
Andrew T. Potts
OREGON
DECEMBER 31, 2016
ANDREW T. POTTS
Expires: 12/31/20

2/21/2020 2:44 PM

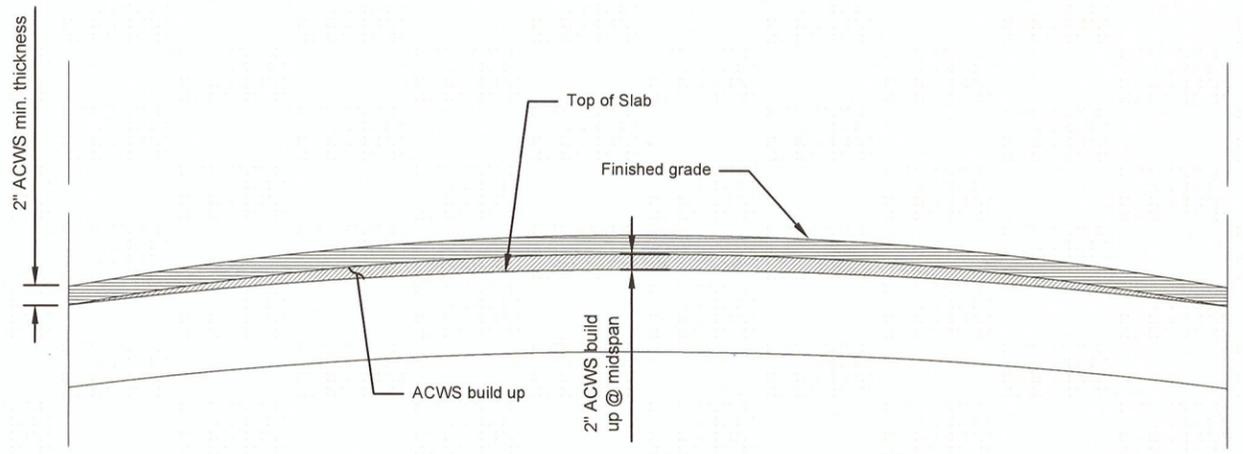
48" Box Beam Schedule

No. Beams Required	Span c-c bents, ft	"A" o-o Horiz. Length, ft (after shortening & Grade Adjustment)	Box Beam Weight, kip	Concrete strength at 28 days, ksi	Concrete strength at release, ksi	Initial Tension per Strand, kips	Total Strand	No. of Debonded Strand	No. of Deflected Strand	Distance "dm" to c.g.s. at midspan, in.	Distance "de" to c.g.s. at ends, in.	Skew Angle (°)		Est. Midspan Deflection, in.					
												Back	Ahead	Upward at transfer of prestress, in	Upward 3 months after transfer of prestress (No SIDL)	Upward 5 years after transfer of prestress (No SIDL)	Instantaneous Downward Due to SIDL (Interior)	Downward Due to SIDL (Interior) 5 yrs. after loading	Estimated Shortening 2 weeks after Transfer of Prestress (in)
9	112.0'	113.0'	120.6	6.0	4.9	31.0	48	0	12	3.03	11.81	0	0	2 1/16	3 1/16	4	1 5/16	2 1/8	1 5/16

-The superimposed dead load (SIDL) is 81 psf, which includes the wearing surface, sidewalk, and bridge rails.

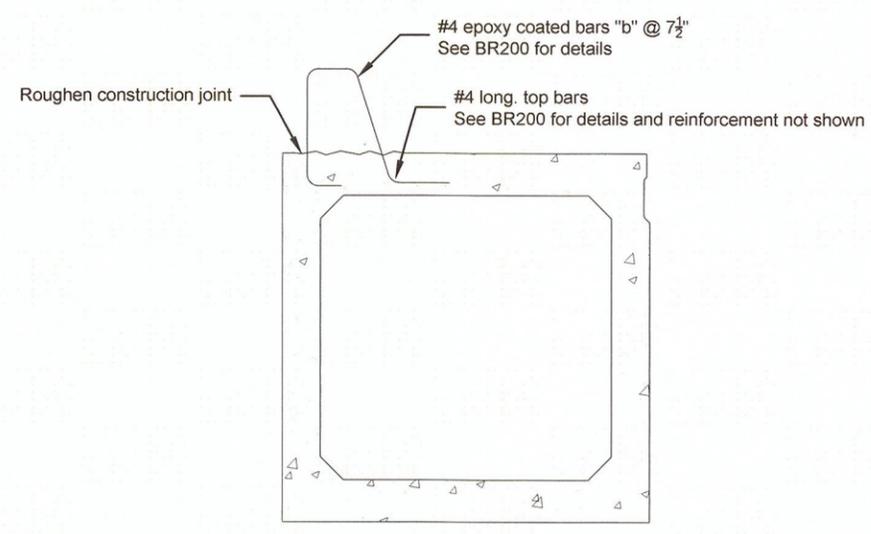


TYPICAL 48" BOX
PRESTRESSING STRAND PATTERN
3/4" = 1'-0"



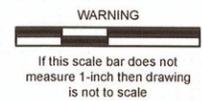
ACWS BUILD UP DETAIL
NTS

NOTE:
ACWS Build-Up Based on Predicted Beam Camber. Check Beam Camber Prior to Erection and Adjust Build-Up as Required



TYPICAL 48" BOX
EXTERIOR SLAB RAIL REINFORCEMENT
1/2" = 1'-0"

GENERAL NOTES:
1. See ODOT Std. Dwg. BR200 for details on rail reinforcement to be cast into exterior slabs.



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DRAFTED BY: A. Potts	REVIEWED BY: C. Knoll

BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

BRIDGE PLANS
P/S BOX DETAILS

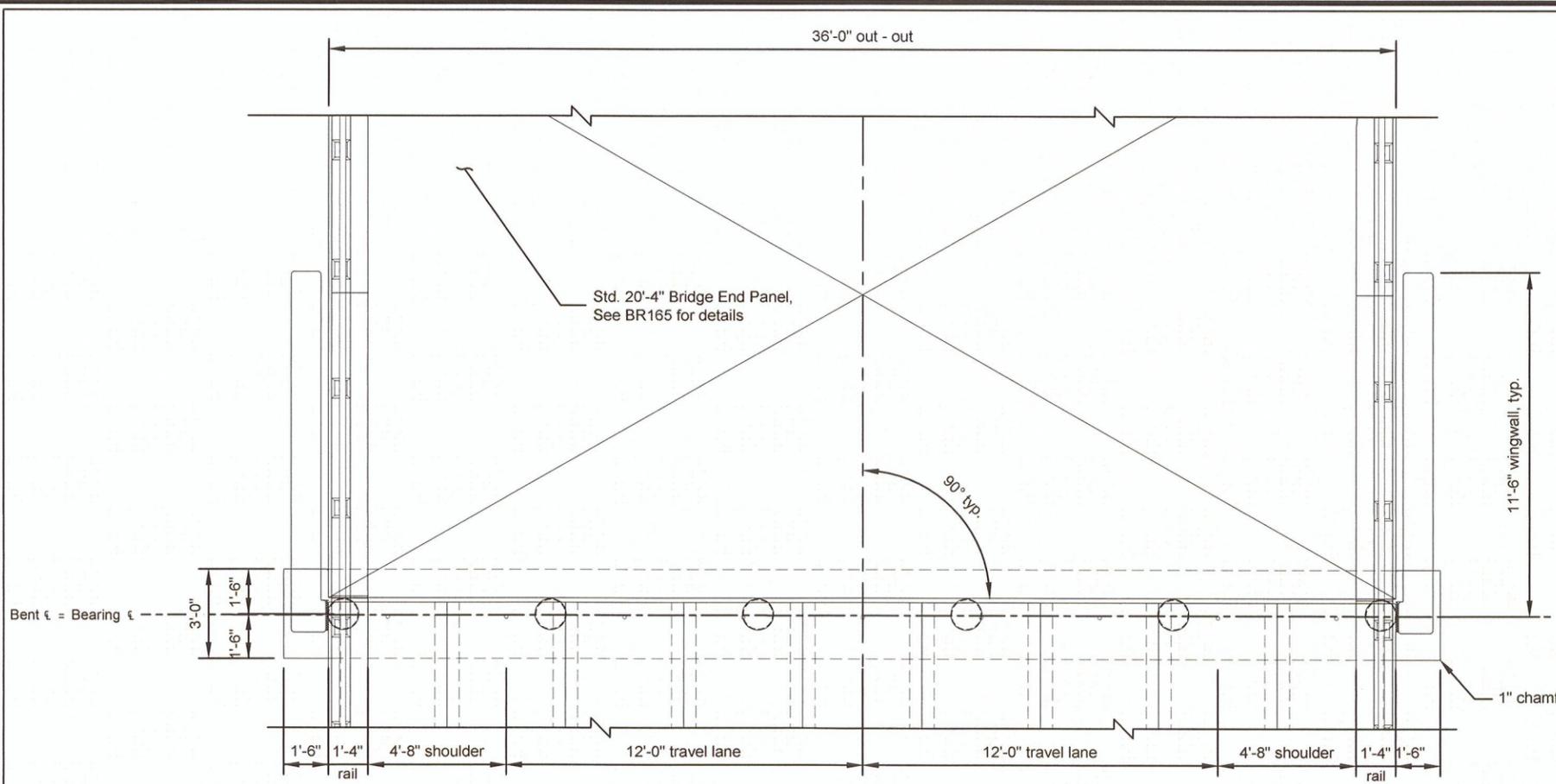
SCALE: As Shown SHEET BR-06

REGISTERED PROFESSIONAL ENGINEER
86074PE
ANDREW T. POTTS
OREGON
DECEMBER 31, 2016
Expires: 12/31/20

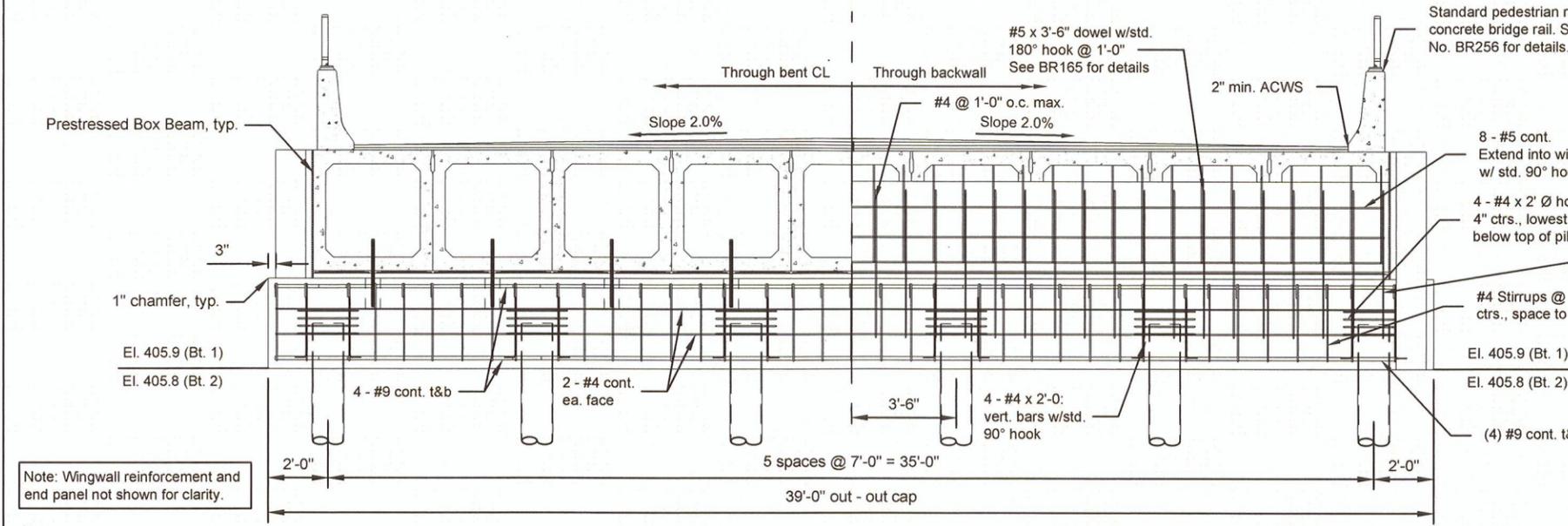
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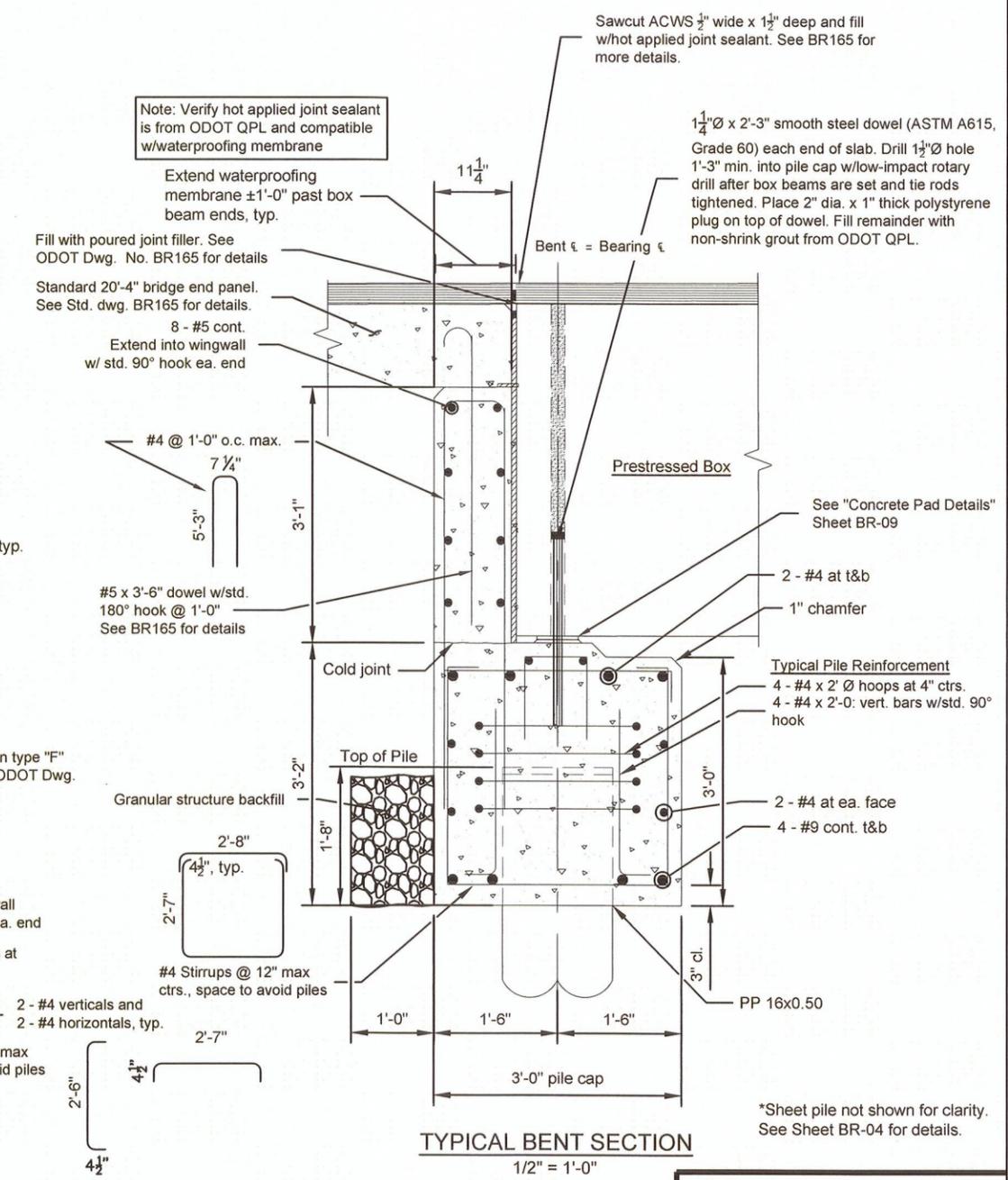
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BENT 2 PLAN (BENT 1 SIMILAR)
3/16" = 1'-0"



BENT 2 PLAN (BENT 1 SIMILAR)
3/16" = 1'-0"

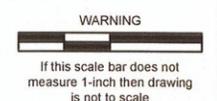


TYPICAL BENT SECTION
1/2" = 1'-0"

Note: Wingwall reinforcement and end panel not shown for clarity.

Note: Elevations are based on NAVD88 (M.S.L. = 0.00)

*Sheet pile not shown for clarity. See Sheet BR-04 for details.



LINN COUNTY ROAD DEPARTMENT
3010 FERRY STREET SW
ALBANY, OREGON 97322
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COUNTY COMMISSION
ROGER NYQUIST
CHAIRMAN
JOHN LINDSEY
WILLIAM TUCKER

ROADMASTER
DARRIN L. LANE, P.E.
COUNTY ENGINEER
CHARLES R. KNOLL, P.E.

DATE:	REVISION:	BY:

BRIDGE NO: 0020B-0490	DATE: 02/18/2020
PROJECT NO: CB1303	
TRS: T. 12 S., R. 01 W., SEC. 21	
DESIGNED BY: A. Potts	CHECKED BY: K. Groom
DRAFTED BY: A. Potts	REVIEWED BY: C. Knoll

BERLIN ROAD: HAMILTON CREEK BRIDGE

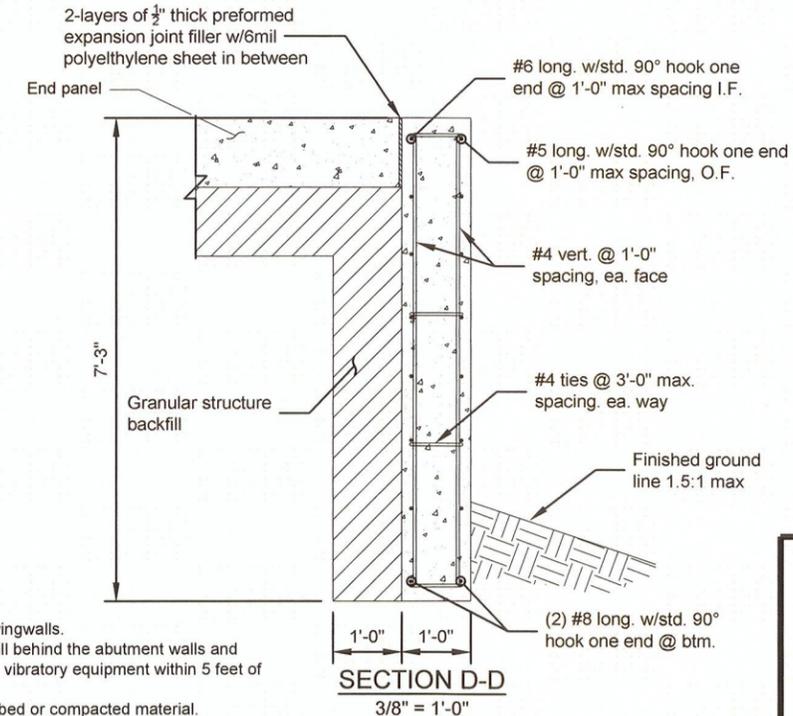
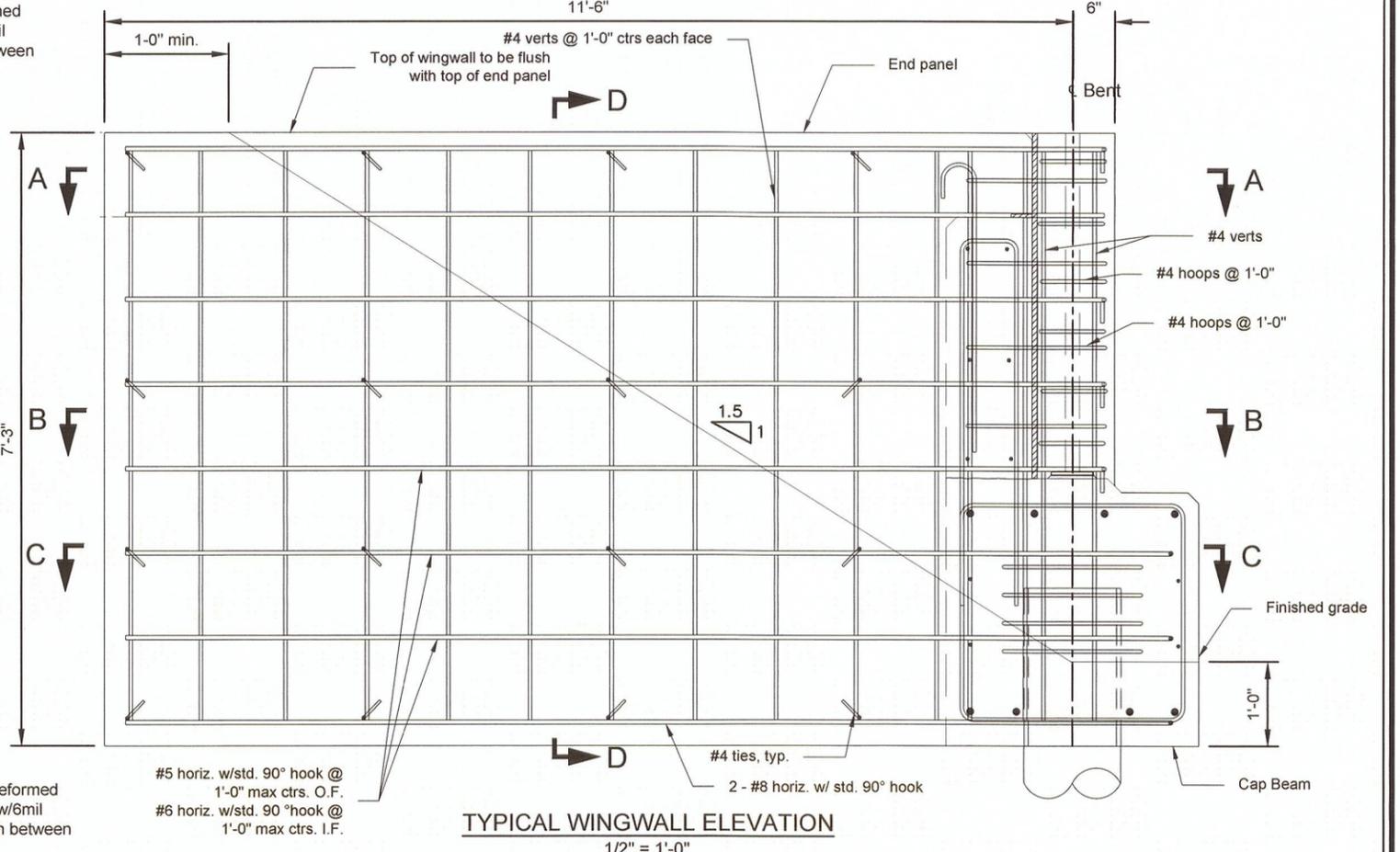
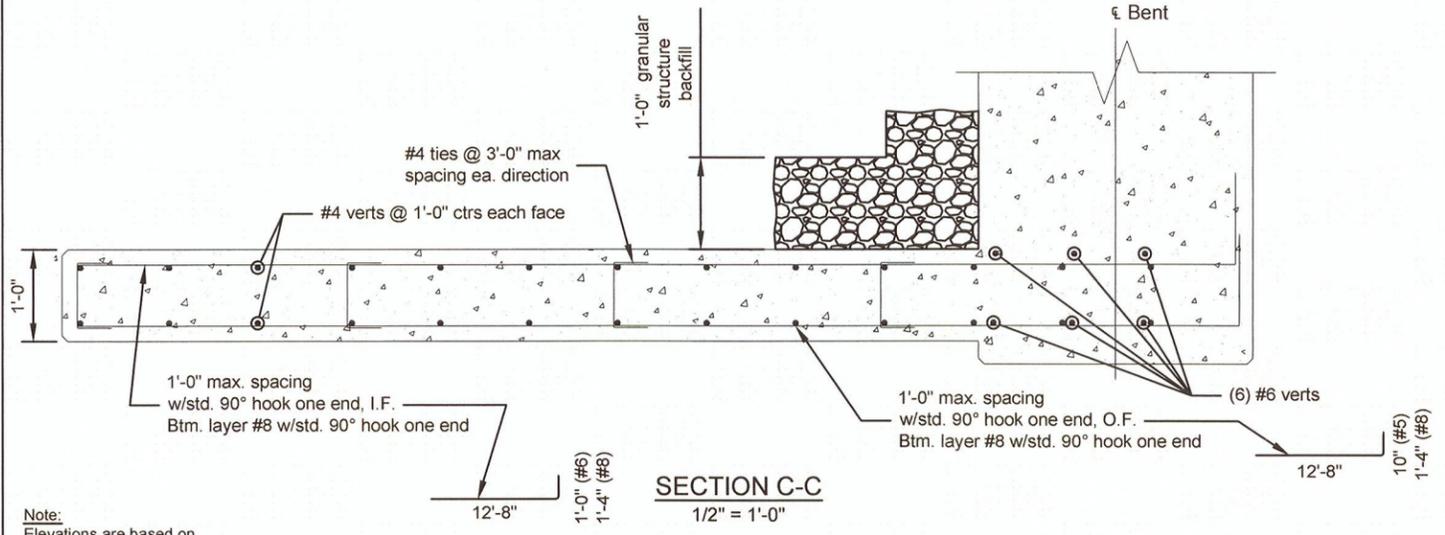
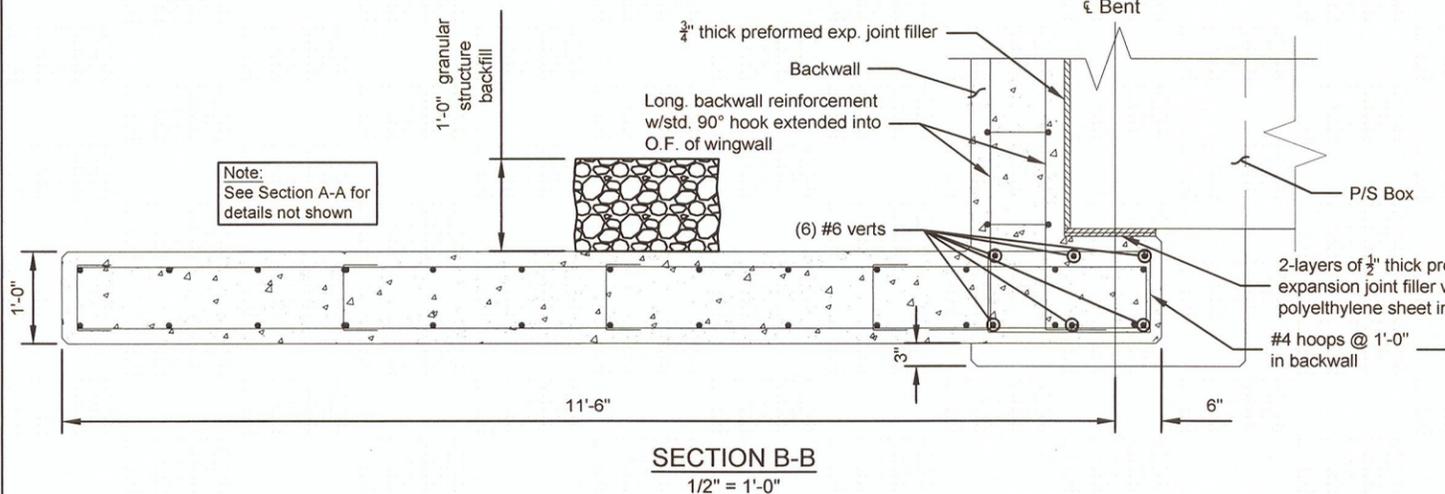
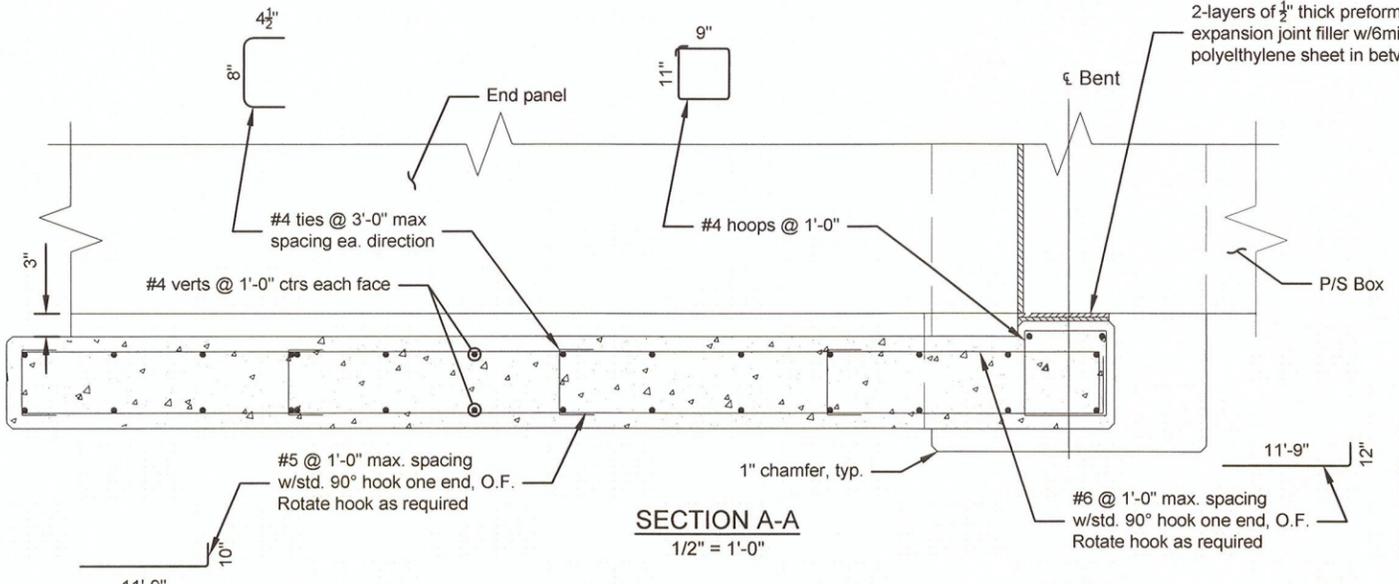
LINN COUNTY

BRIDGE PLANS
BENT DETAILS

SCALE: As Shown
SHEET BR-07

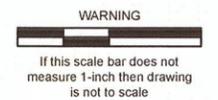
REGISTERED PROFESSIONAL ENGINEER
86074PE
ANDREW T. POTTS
OREGON
DECEMBER 31, 2016
Expires: 12/31/20

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GENERAL NOTES:

1. Do not compact fill within 12" of face of wingwalls.
2. Placement and compaction of imported fill behind the abutment walls and wing walls should be completed using light, vibratory equipment within 5 feet of the wall.
3. Pour bottom of wingwall against undisturbed or compacted material.



Note:
Elevations are based on
NAVD88 (M.S.L. = 0.00)



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DARRIN L. LANE, P.E.
COUNTY ENGINEER
CHARLES R. KNOLL, P.E.

DATE:	REVISION:	BY:

BRIDGE NO: 00208-0490	DATE: 02/18/2020
PROJECT NO: CB1303	
TRS: T. 12 S., R. 01 W., SEC. 21	
DESIGNED BY: A. Potts	CHECKED BY: K. Groom
DRAFTED BY: A. Potts	REVIEWED BY: C. Knoll

BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

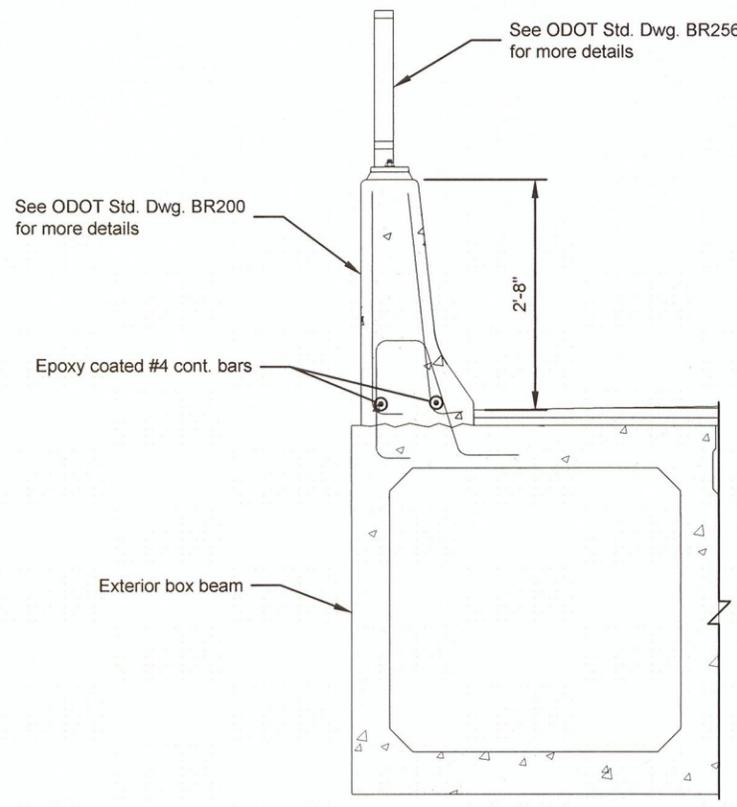
BRIDGE PLANS
WINGWALL DETAILS

SCALE: AS SHOWN SHEET BR-08

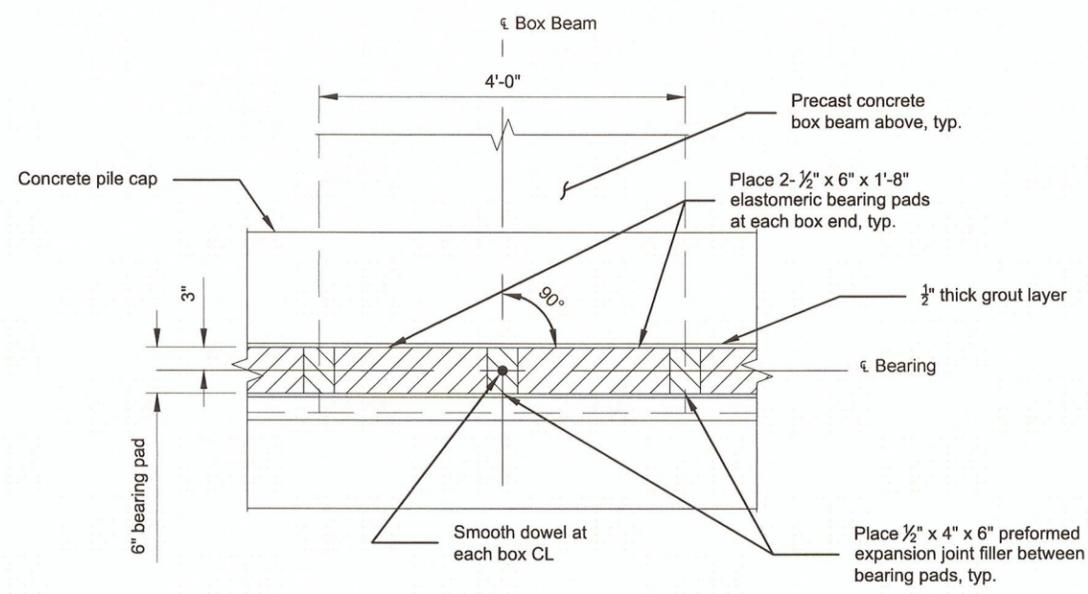


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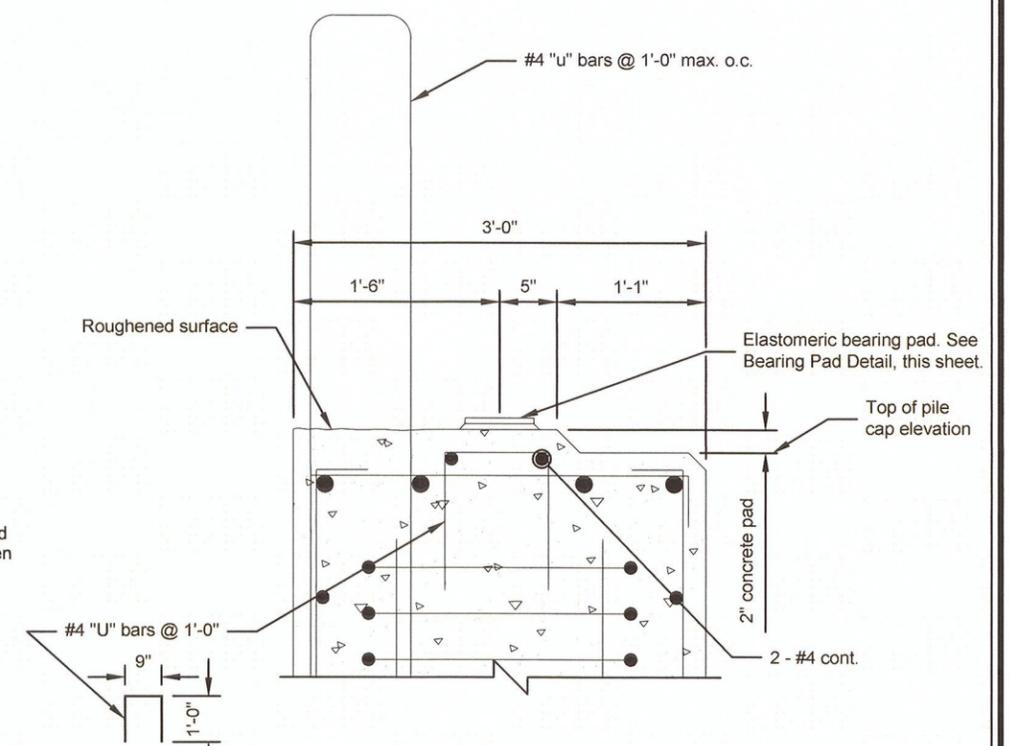
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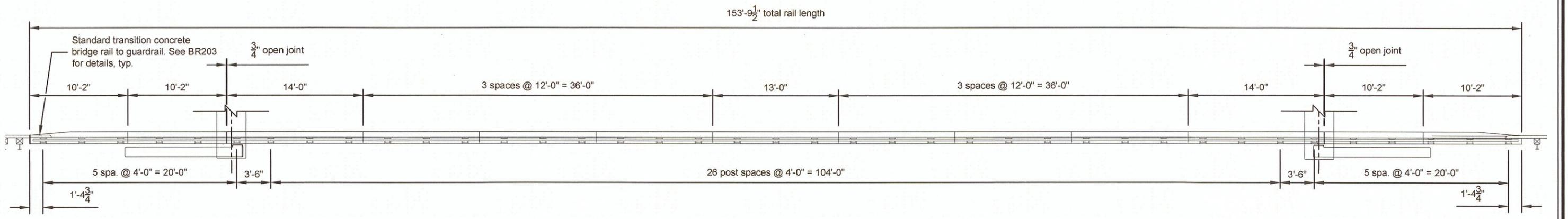
RAIL SECTION
1/2" = 1'-0"



BEARING PAD DETAIL
1/2" = 1'-0"



CONCRETE PAD DETAIL
3/4" = 1'-0"



RAIL POST & JOINT SPACING
1" = 10'

WARNING
If this scale bar does not measure 1-inch then drawing is not to scale

REGISTERED PROFESSIONAL ENGINEER
86074PE
Andrew T. Potts
OREGON
DECEMBER 31, 2016
ANDREW T. POTTS
Expires: 12/31/20



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			DRAFTED BY: A. Potts	REVIEWED BY: C. Knoll

BERLIN ROAD: HAMILTON CREEK BRIDGE

LINN COUNTY

BRIDGE PLANS
RAIL & MISC. DETAILS

SCALE: AS SHOWN SHEET BR-09