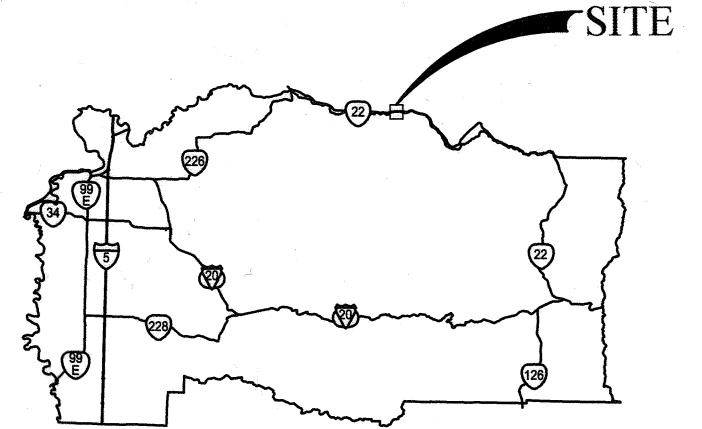


LINN COUNTY ROAD DEPARTMENT

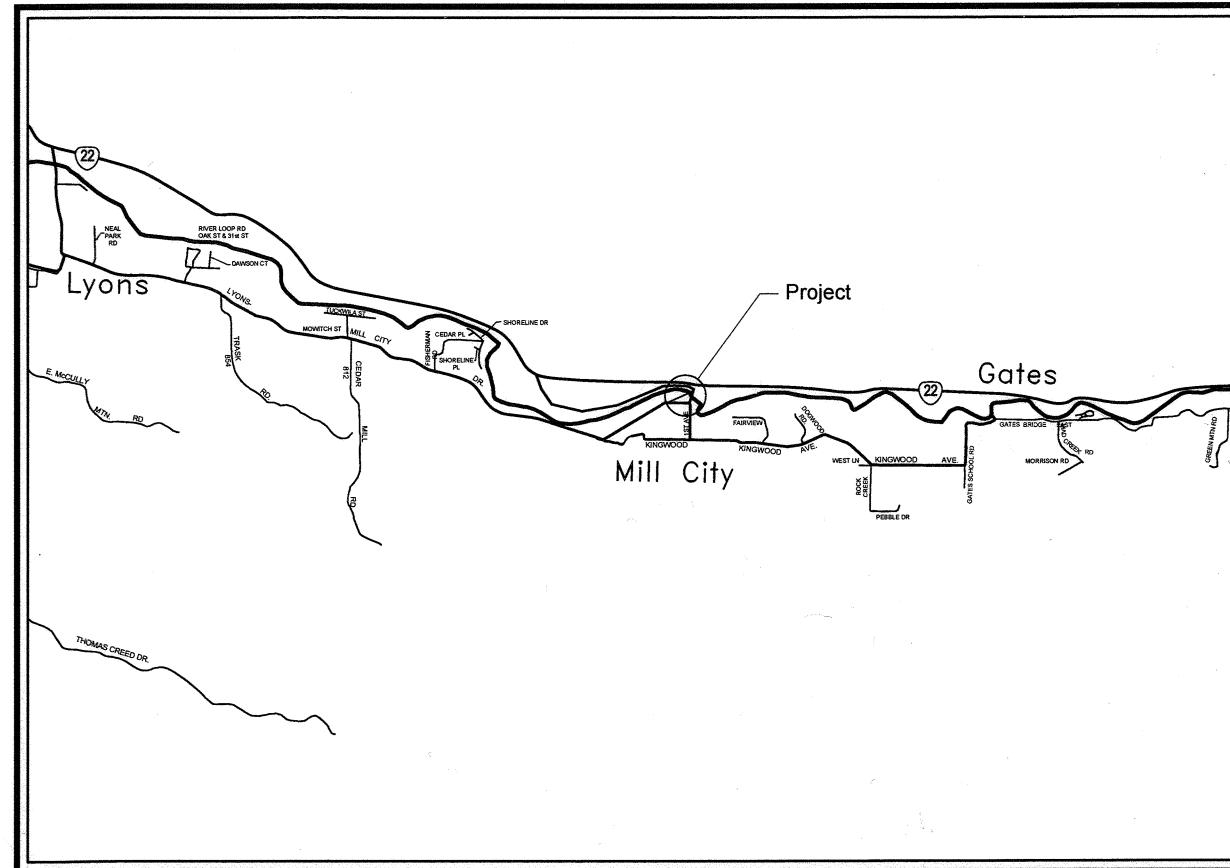
OVERALL PROJECT LENGTH: 0.07 MILES

STRUCTURE REHABILITATION AND PAINTING NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE

DECEMBER 2020

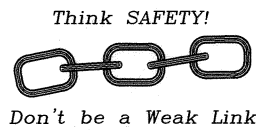


PROJECT LOCATION



SHEET INDEX

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03	WEST APPROACH TYPICAL SECTION
04	EAST LANDING
05	EROSION CONTROL PLANS
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BR-02	GENERAL NOTES
BR-03	WORK TO BE DONE
BR-04	TYPICAL SECTIONS
BR-05	PRECAST GIRDER DETAILS (OPTIONAL)
BR-06	BENT 1 DETAILS
BR-07	BENT 13 DETAILS
BR-08	TYPICAL BENT DETAILS
BR-09	LONGITUDINAL BRACING DETAILS
BR-10	PIER DETAILS
BR-11	PIER END BEAM DETAILS
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PR-02	PEDESTRIAN RAIL - APPROACH RAIL
PR-03	PEDESTRIAN RAIL - MESH PANELS
DB-01	DISPLAY BOARD - ELEVATION
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WL-02	WATERLINE PLAN & PROFILE STA 2+30 TO STA 3+80
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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 copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987.)



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ALBANY, OREGON 97322
PHONE: (541) 967-3919
FAX: (541) 924-0202
E-MAIL: Roads@co.linn.or.us

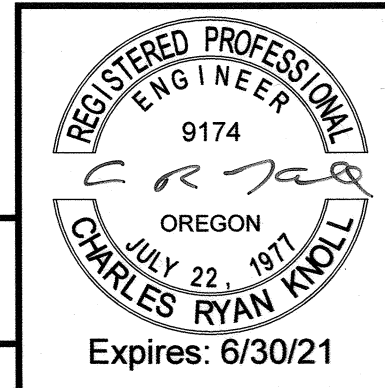
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ROGER NYQUIST
CHAIRMAN
JOHN LINDSEY
WILLIAM TUCKER

ROADMASTER
WAYNE MINK, P.E.
COUNTY ENGINEER
CHARLES R. KNOLL, P.E.

DATE:	REVISION:	BY:	BRIDGE NO: N/A	DATE: 10/09/2020
			PROJECT NO: B1804	
			TRS: T. 09 S., R. 03 E., SECTION 30, W.M.	
			DESIGNED BY: K. Groom	CHECKED BY: A. Potts
			DRAFTED BY: K. Groom	REVIEWED BY: C. Knoll

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE
LINN COUNTY

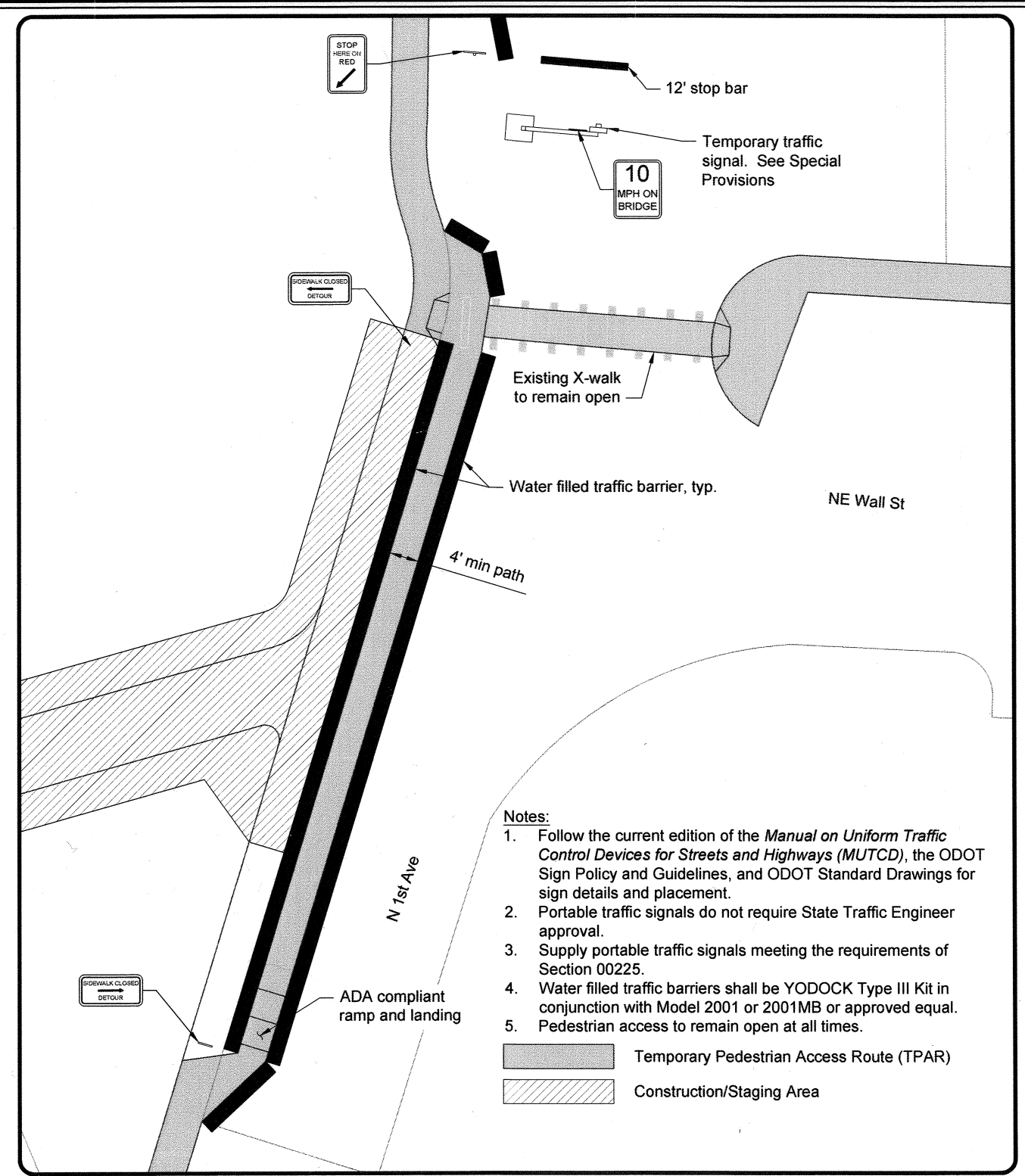
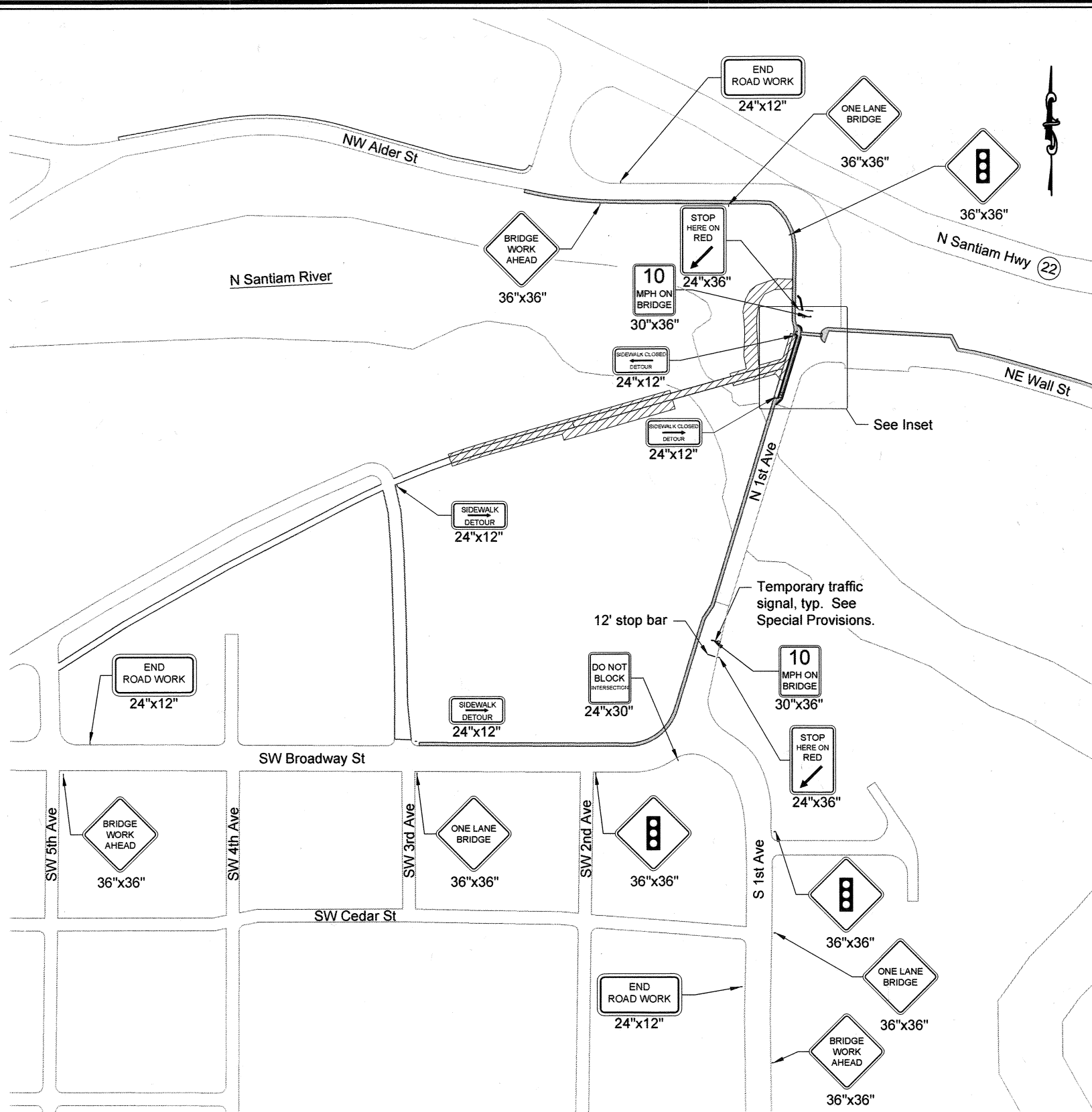
COVER SHEET
SCALE: AS SHOWN
SHEET 01



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10/9/2020 1:50 PM

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- Notes:**
1. Follow the current edition of the *Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)*, the ODOT Sign Policy and Guidelines, and ODOT Standard Drawings for sign details and placement.
 2. Portable traffic signals do not require State Traffic Engineer approval.
 3. Supply portable traffic signals meeting the requirements of Section 00225.
 4. Water filled traffic barriers shall be YODOCK Type III Kit in conjunction with Model 2001 or 2001MB or approved equal.
 5. Pedestrian access to remain open at all times.
- Temporary Pedestrian Access Route (TPAR)
 Construction/Staging Area

TRAFFIC CONTROL PLAN - ONE LANE OPEN ACROSS BRIDGE
NO SCALE



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ROGER NYQUIST
CHAIRMAN
JOHN LINDSEY
WILLIAM TUCKER

ROADMASTER
WAYNE MINK, P.E.
COUNTY ENGINEER
CHARLES R. KNOLL, P.E.

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DRAFTED BY:	K. Groom	REVIEWED BY:	C. Knoll

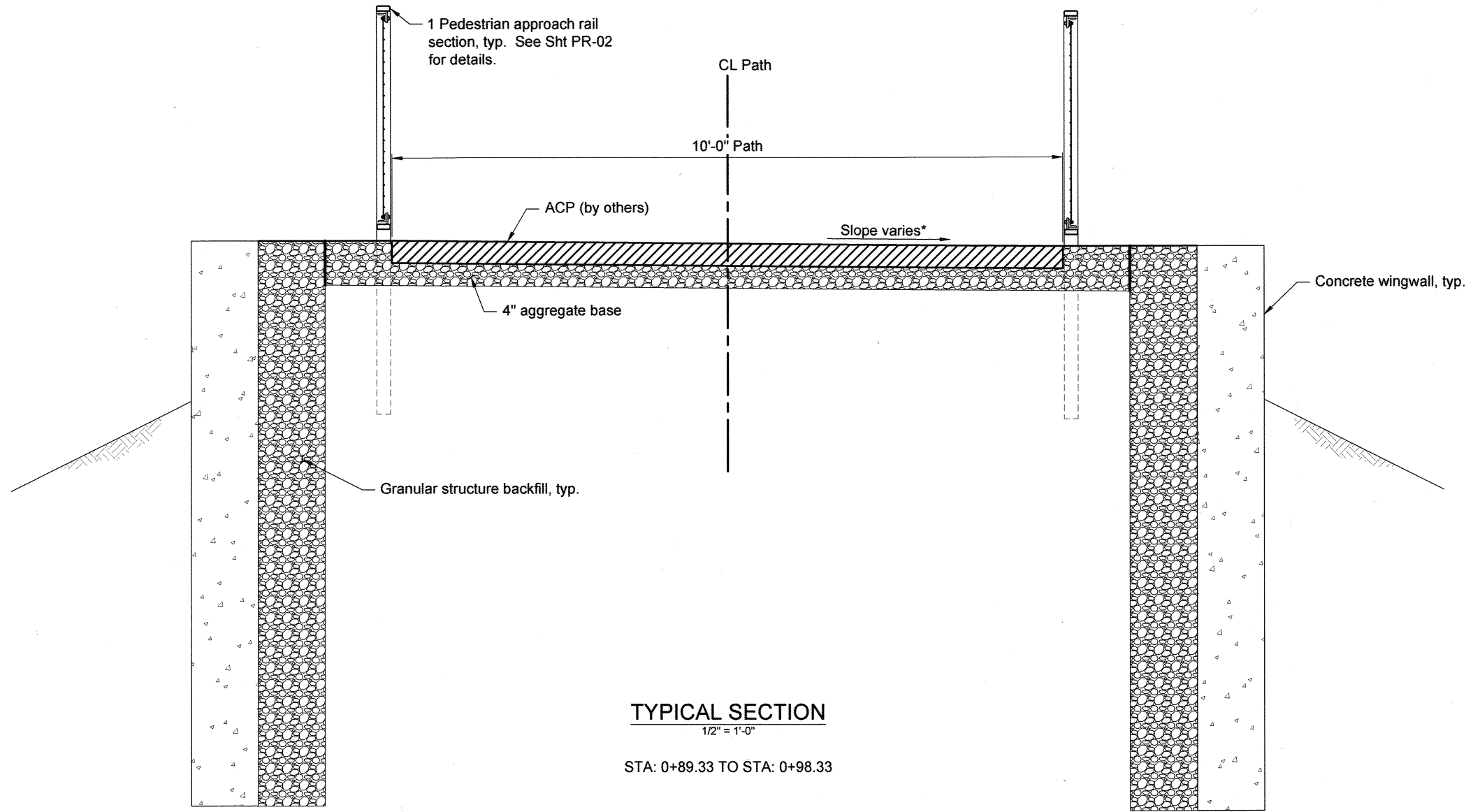
NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE
LINN COUNTY

TRAFFIC CONTROL PLAN
SCALE: AS SHOWN
SHEET 02

REGISTERED PROFESSIONAL
ENGINEER
17206PE
Kevin M. Groom
OREGON
JULY 19, 1994
KEVIN M. GROOM

Expires: 6/30/2021

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

STA: 0+89.33 TO STA: 0+98.33

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

REGISTERED PROFESSIONAL ENGINEER
17206PE
KEVIN M. GROOM
OREGON
JULY 19, 1994
Expires: 6/30/2021



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3010 FERRY STREET SW
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JOHN LINDSEY
WILLIAM TUCKER

ROADMASTER
WAYNE MINK, P.E.
COUNTY ENGINEER
CHARLES R. KNOLL, P.E.

DATE:	REVISION:	BY:

BRIDGE NO:	N/A	DATE:	10/09/2020
PROJECT NO:	B1804		
TRS:	T. 09 S., R. 03 E., SECTION 30, W.M.		
DESIGNED BY:	K. Groom	CHECKED BY:	A. Potts
DRAFTED BY:	K. Groom	REVIEWED BY:	C. Knoll

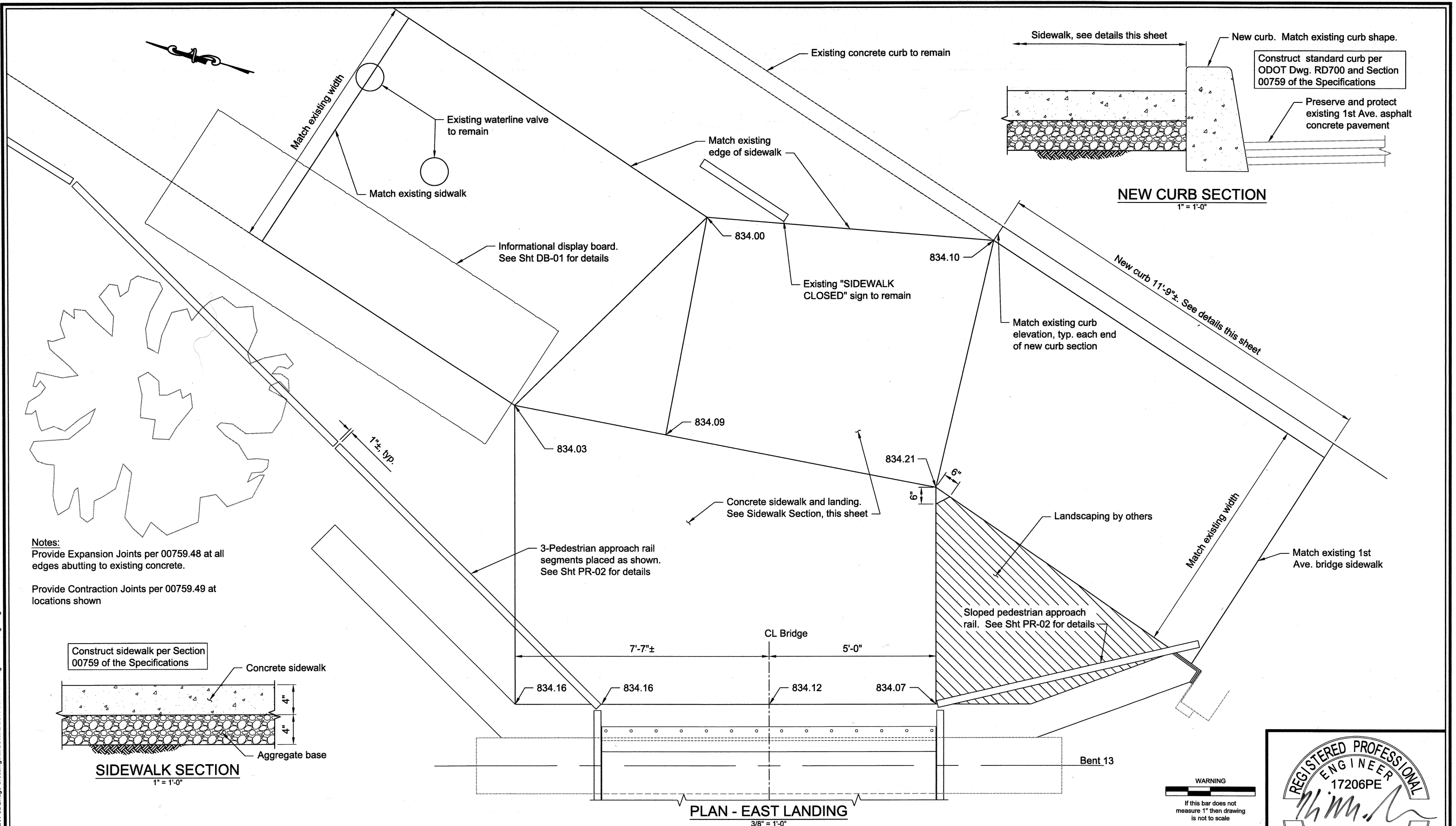
NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE
LINN COUNTY

WEST APPROACH TYPICAL SECTION
SCALE: AS SHOWN
SHEET 03

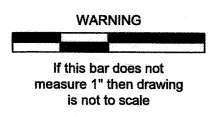
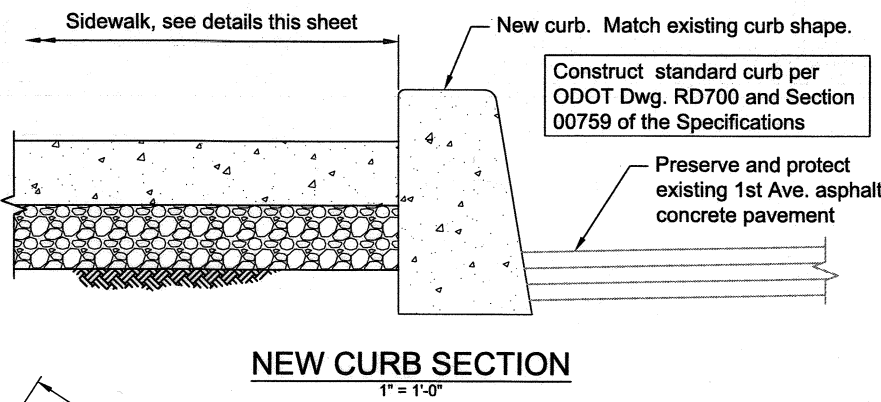
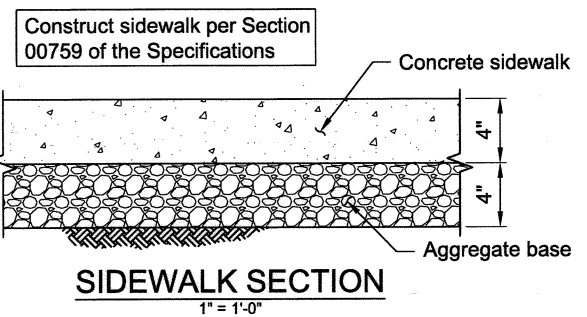
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Notes:
 Provide Expansion Joints per 00759.48 at all edges abutting to existing concrete.
 Provide Contraction Joints per 00759.49 at locations shown



REGISTERED PROFESSIONAL ENGINEER
 17206PE
 KEVIN M. GROOM
 OREGON
 JULY 19, 1994
 Expires: 6/30/2021



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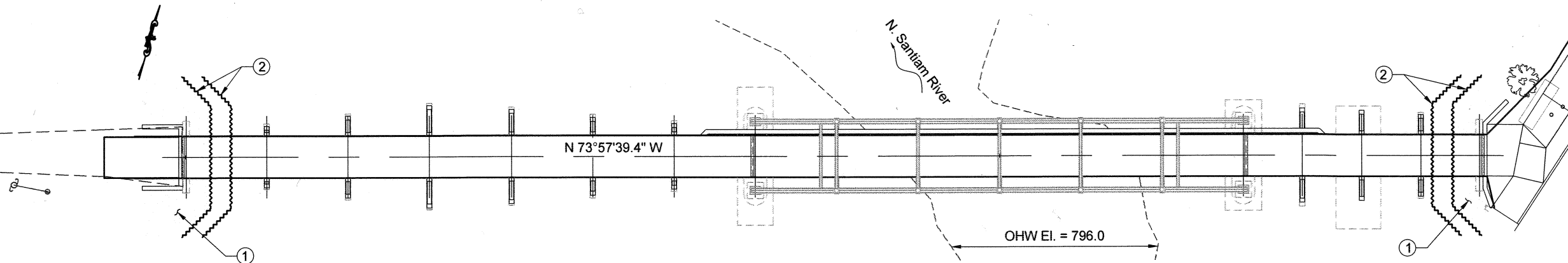
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 JOHN LINDSEY
 WILLIAM TUCKER

ROADMASTER
 WAYNE MINK, P.E.
COUNTY ENGINEER
 CHARLES R. KNOLL, P.E.

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			PROJECT NO.:	B1804
			TRS:	T. 09 S., R. 03 E., SECTION 30, W.M.
			DESIGNED BY:	K. Groom
			CHECKED BY:	A. Potts
			DRAFTED BY:	K. Groom
			REVIEWED BY:	C. Knoll

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE
 LINN COUNTY
 EAST LANDING
 SCALE: AS SHOWN SHEET 04

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EROSION CONTROL PLAN
1" = 30'

~~~~~ Sediment Barrier  
 [ ] Permanent Seeding

**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 active waterway.
4. Develop a revised plan of the erosion control facilities shown in accordance with the requirements of section 00280 of the Special Provisions and 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 or personnel shall enter into wetlands or the active channel of the North Fork Santiam River.
7. No contaminated water or debris shall enter into the active channel of the North Fork Santiam River.
8. A Work Containment System Plan (WCSP) shall be approved by the engineer prior to installation. No demolition or removal work may begin until the WCSP has been approved.
9. Straw or plastic sheeting may be required on slopes greater than 2:1 during a rain event.

- ① Install permanent seeding on all ground disturbed by construction. Area directly under the bridge superstructure may be excluded from seeding. Approximate area shown. Required seeding will be based on construction procedures elected by the Contractor.
- 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.

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



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 WILLIAM TUCKER

**ROADMASTER**  
 WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
 CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: | BRIDGE NO:                           | DATE:                 |
|-------|-----------|-----|--------------------------------------|-----------------------|
|       |           |     | N/A                                  | 10/09/2020            |
|       |           |     | B1804                                |                       |
|       |           |     | T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
|       |           |     | DESIGNED BY: K. Groom                | CHECKED BY: A. Potts  |
|       |           |     | DRAFTED BY: K. Groom                 | REVIEWED BY: C. Knoll |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
 LINN COUNTY

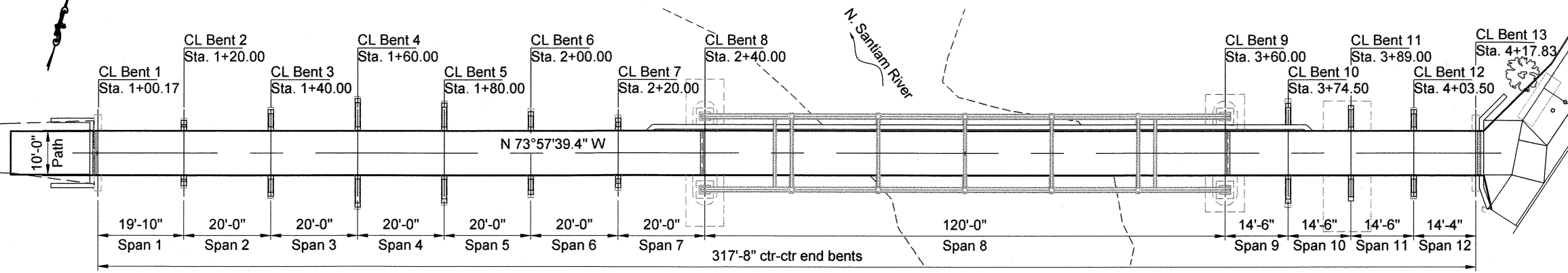
EROSION CONTROL PLANS  
 SCALE: AS SHOWN SHEET 05

REGISTERED PROFESSIONAL ENGINEER  
 9174  
 OREGON  
 JULY 22, 1977  
 CHARLES RYAN KNOLL  
 Expires: 6/30/21

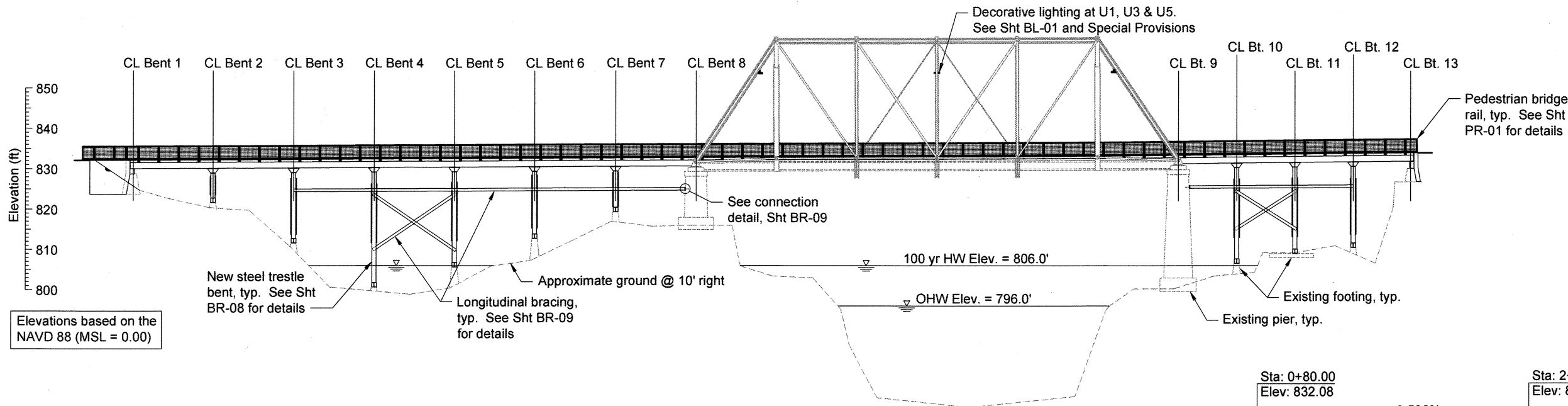
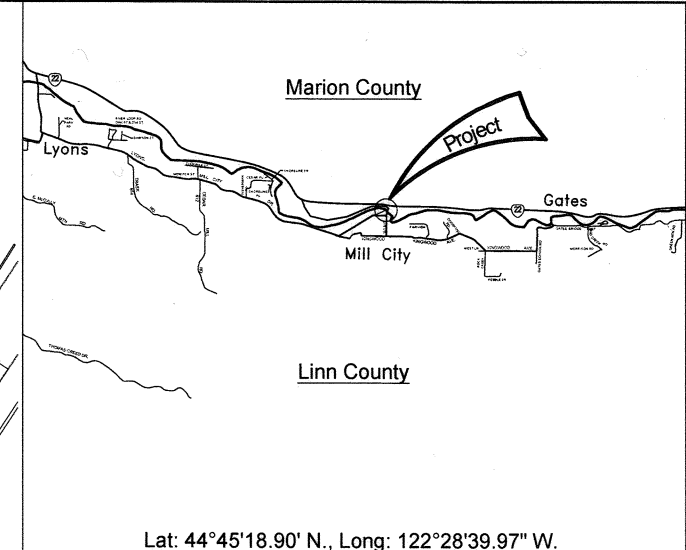
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PLAN  
1" = 30'



ELEVATION  
1" = 30'

|                              |                              |                              |                              |
|------------------------------|------------------------------|------------------------------|------------------------------|
| Sta: 0+80.00<br>Elev: 832.08 | Sta: 2+60.00<br>Elev: 832.99 | Sta: 3+40.00<br>Elev: 833.30 | Sta: 4+18.00<br>Elev: 834.10 |
| +0.506%                      |                              | +1.026%                      |                              |

GRADELINE DIAGRAM  
NO SCALE

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



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E-MAIL: Roads@co.linn.or.us

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JOHN LINDSEY  
WILLIAM TUCKER

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WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: | BRIDGE NO:                                | DATE:                 |
|-------|-----------|-----|-------------------------------------------|-----------------------|
|       |           |     | N/A                                       | 10/09/2020            |
|       |           |     | B1804                                     |                       |
|       |           |     | TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
|       |           |     | DESIGNED BY: K. Groom                     | CHECKED BY: A. Potts  |
|       |           |     | DRAFTED BY: K. Groom                      | REVIEWED BY: C. Knoll |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

PLAN & ELEVATION  
SCALE: AS SHOWN  
SHEET BR-01

REGISTERED PROFESSIONAL ENGINEER  
17206PE  
KEVIN M. GROOM  
OREGON  
JULY 19, 1994  
Expires: 6/30/2021

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**General Notes:**

Bridge is designed in accordance with the 8th edition of the AASHTO LRFD Bridge Design Specifications, and the 2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges with 2015 Interim Revisions.

All materials and workmanship shall conform to the 2018 Oregon Standard Specifications for Construction and the Special Provisions.

Bridge designed for dead load, pedestrian live load of 90 psf, and an H5 Maintenance Vehicle Live Load, shown below

Provide all reinforcing steel according to ASTM Specification A706 or ASTM A615, Grade 60. Provide welded or field bent bars according to ASTM Specification A706.

Use the following splice lengths (unless shown otherwise):

| SPLICE LENGTH* |       |       |       |       |       |       |       |       |       |               |     |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-----|
| Bar Size       | #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'-7" | 5'-9" | 7'-1" | Not Permitted |     |

\*Increase the splice lengths by ALL the applicable percentages:  
 40% for locations with 12 inches or more of fresh concrete placed below.  
 30% for areas with more than 50% of bars spliced in one region.

Splice reinforcing bars at alternate bars, staggered at least one splice length, or as far as practical, unless shown otherwise.

Place reinforcing bars a minimum of 2-inches clear of the nearest face of concrete, unless shown otherwise.

Provide Class HPC4500 - 1 1/2", 1" or 3/4" concrete for deck and diaphragms.

Provide Class 4000 - 1 1/2", 1" or 3/4" concrete for all girders.

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

All HSS structural steel shall conform to ASTM A847, corrosion resistant high-strength, low allow steel.

All channel C-shapes shall conform to either ASTM A242 - Grade 50, or ASTM A588, corrosion resistant high-strength, low allow steel.

All wide flange (W and HP) shapes shall conform to either ASTM A242 - Grade 50, or ASTM A588, corrosion resistant high-strength, low allow steel.

All other structural steel shall be ASTM A242 - Grade 50, or ASTM A588, corrosion resistant high-strength, low allow steel, unless noted otherwise.

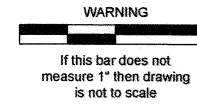
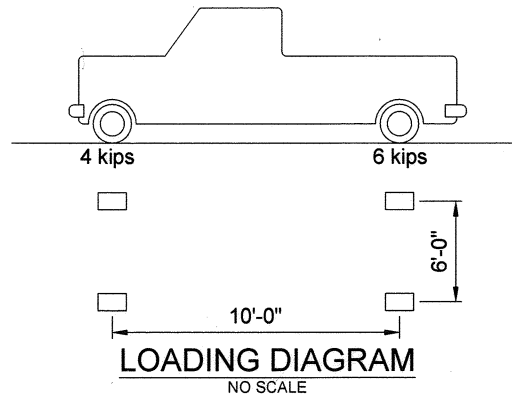
Anchor rods shall conform to ASTM A449. All nuts shall conform to ASTM A563, and all washers shall conform to ASTM F436. All hardware shall be hot dip galvanized per ASTM A153. All threads shall be chased after galvanizing. Bolts shall not extend more than 1" past the nut.

Concrete resin bonded reinforcement and anchor systems shall be embedded to the depth necessary to develop the ultimate tensile capacity of the anchor. All concrete anchor systems shall be on the ODOT Qualified Products List (QPL), and installed per the manufacturer's recommendations.

Provide bridge rail materials according to detail plans.

All welds shall conform to AWS D1.5 using E70XX electrodes.

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 may be obtained from the Center.



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 ALBANY, OREGON 97322  
 PHONE: (541) 967-3919  
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 E-MAIL: Roads@co.linn.or.us

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 CHAIRMAN  
 JOHN LINDSEY  
 WILLIAM TUCKER

**ROADMASTER**  
 WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
 CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: | BRIDGE NO:                           | DATE:                 |
|-------|-----------|-----|--------------------------------------|-----------------------|
|       |           |     | N/A                                  | 10/09/2020            |
|       |           |     | B1804                                |                       |
|       |           |     | T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
|       |           |     | DESIGNED BY: K. Groom                | CHECKED BY: A. Potts  |
|       |           |     | DRAFTED BY: K. Groom                 | REVIEWED BY: C. Knoll |

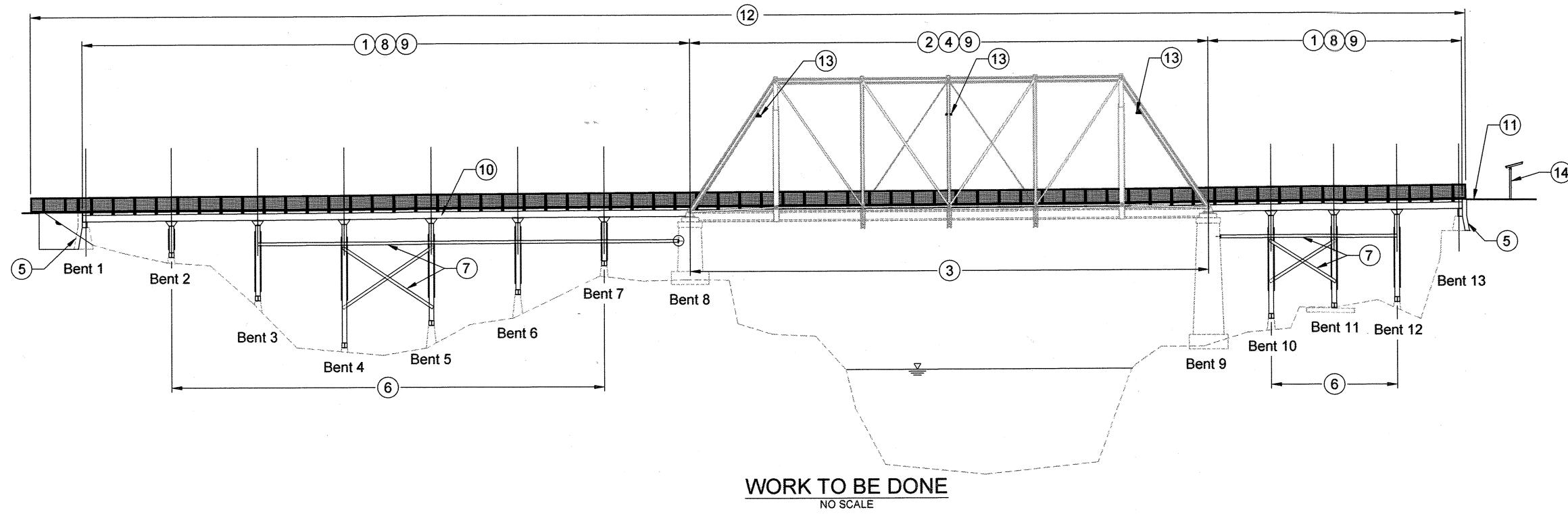
**NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE**  
 LINN COUNTY

**GENERAL NOTES**  
 SCALE: AS SHOWN  
 SHEET BR-02

**REGISTERED PROFESSIONAL ENGINEER**  
 17206PE  
 OREGON  
 JULY 19, 1994  
 KEVIN M. GROOM  
 Expires: 6/30/2021

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**WORK TO BE DONE**  
NO SCALE

- ① Remove existing timber approach span including: rail, deck stringers, timber substructure and waterline.
- ② Remove existing timber rail, deck, all lighting, conduits and junction boxes. Retain existing steel truss, steel stringers and floorbeams.
- ③ Install shear studs on existing main span steel stringers
- ④ Clean and paint existing truss, stringers, floorbeams, and all steel elements of the main truss span per the Special Provisions
- ⑤ Construct new CIP concrete abutment backwalls, wingwalls and pedestals
- ⑥ Construct new steel interior bents and transverse cross bracing on existing concrete footings
- ⑦ Install longitudinal bracing between interior bents
- ⑧ Install new concrete approach span girders
- ⑨ Construct CIP concrete end beams and deck. See Pour Schedule this sheet.

- ⑩ Install 12" diameter waterline
- ⑪ Construct new concrete approach at east end of bridge
- ⑫ Install new approach and pedestrian rail
- ⑬ Install decorative lighting on main truss span
- ⑭ Install steel display board frame and roof assembly

**Pour Schedule:**  
 1. Install precast girders or pour CIP concrete girders.  
 2. Construct diaphragms and deck from one joint to another in one continuous pour.

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



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**COUNTY COMMISSION**  
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 CHAIRMAN  
 JOHN LINDSEY  
 WILLIAM TUCKER

| DATE: | REVISION: | BY: |
|-------|-----------|-----|
|       |           |     |
|       |           |     |
|       |           |     |
|       |           |     |

|                                           |                       |
|-------------------------------------------|-----------------------|
| BRIDGE NO: N/A                            | DATE: 10/09/2020      |
| PROJECT NO: B1804                         |                       |
| TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
| DESIGNED BY: K. Groom                     | CHECKED BY: A. Potts  |
| DRAFTED BY: K. Groom                      | REVIEWED BY: C. Knoll |

**NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE**  
 LINN COUNTY

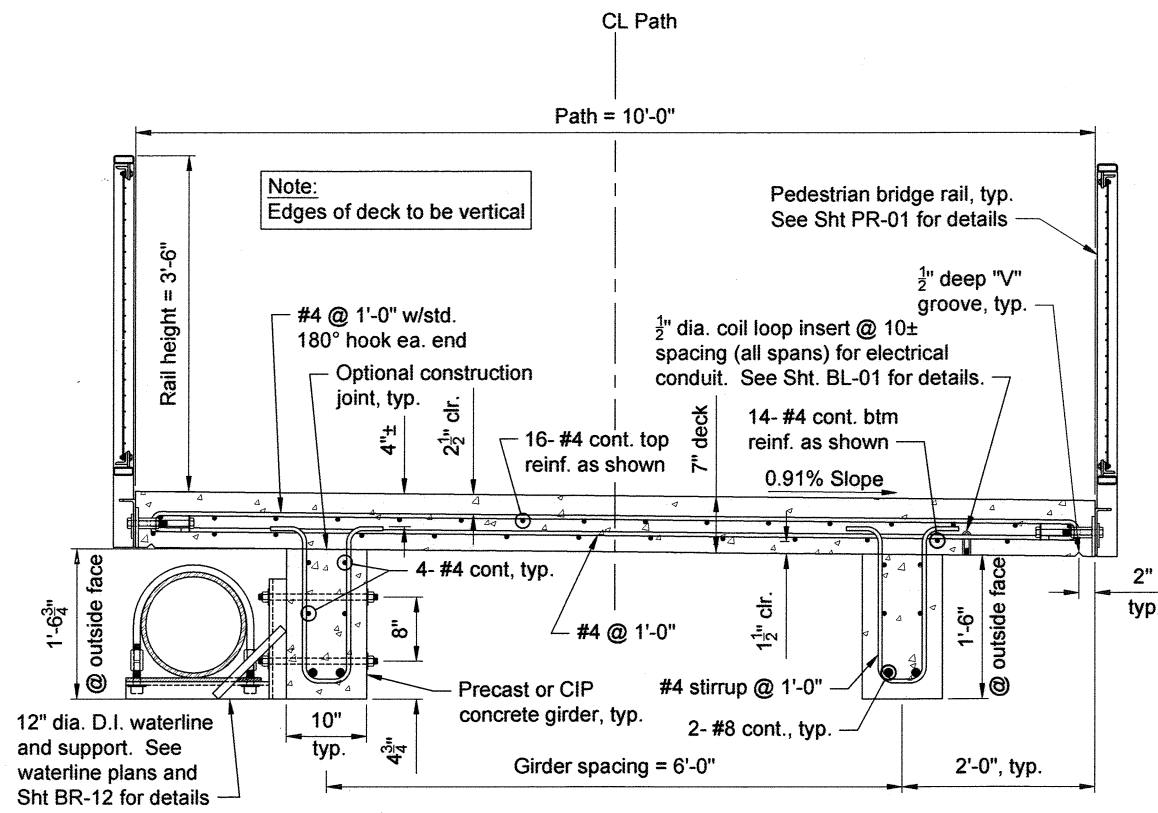
**WORK TO BE DONE**  
 SCALE: AS SHOWN SHEET BR-03

**Expires: 6/30/2021**

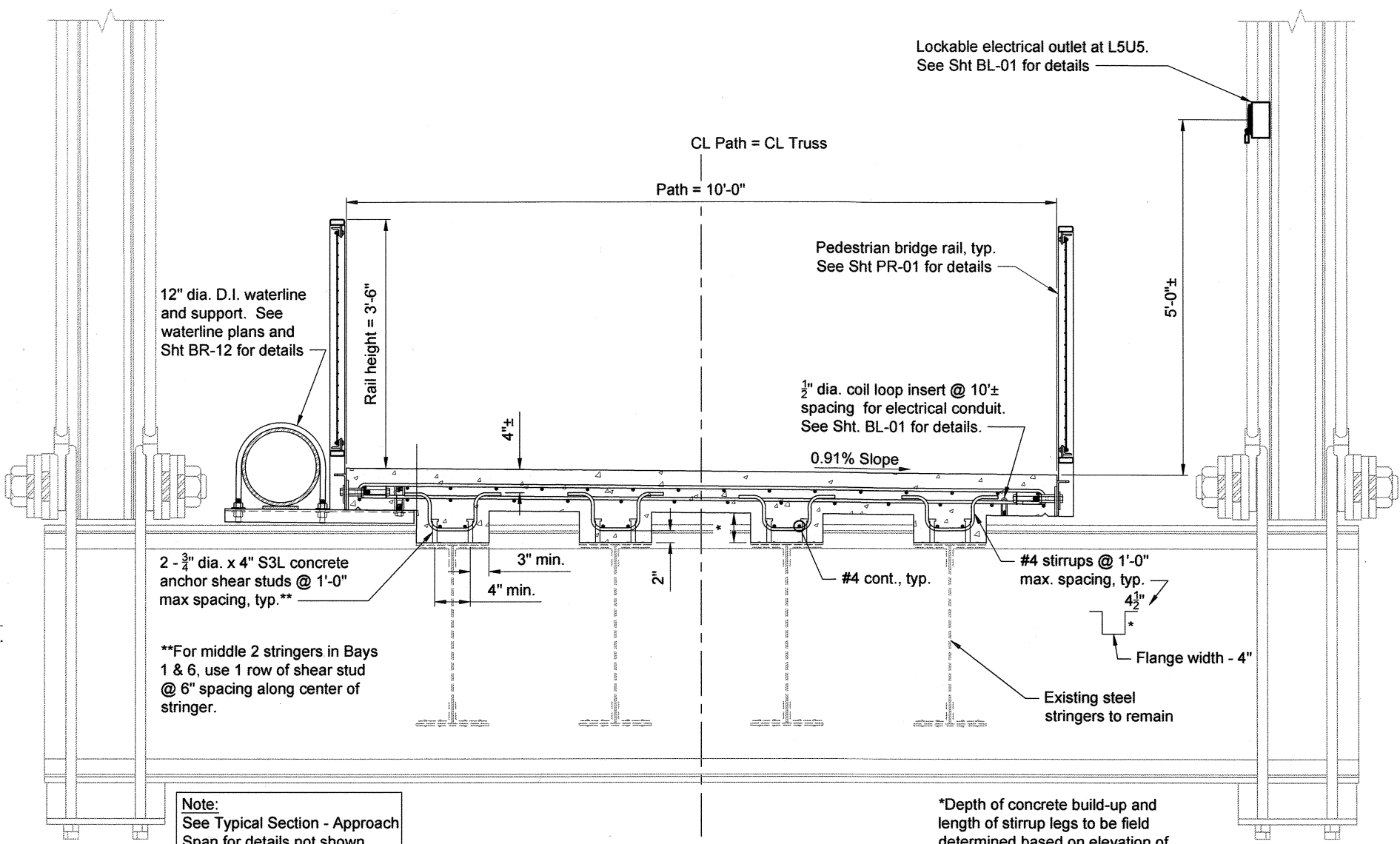
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TYPICAL SECTION - APPROACH SPAN  
1/2" = 1'-0"



TYPICAL SECTION - SPAN 8  
1/2" = 1'-0"

Note:  
See Typical Section - Approach Span for details not shown

\*Depth of concrete build-up and length of stirrup legs to be field determined based on elevation of tops of existing steel stringers.

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

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

**ROADMASTER**  
WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: | BRIDGE NO:                           | DATE:                 |
|-------|-----------|-----|--------------------------------------|-----------------------|
|       |           |     | N/A                                  | 10/09/2020            |
|       |           |     | B1804                                |                       |
|       |           |     | T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
|       |           |     | DESIGNED BY: K. Groom                | CHECKED BY: A. Potts  |
|       |           |     | DRAFTED BY: K. Groom                 | REVIEWED BY: C. Knoll |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

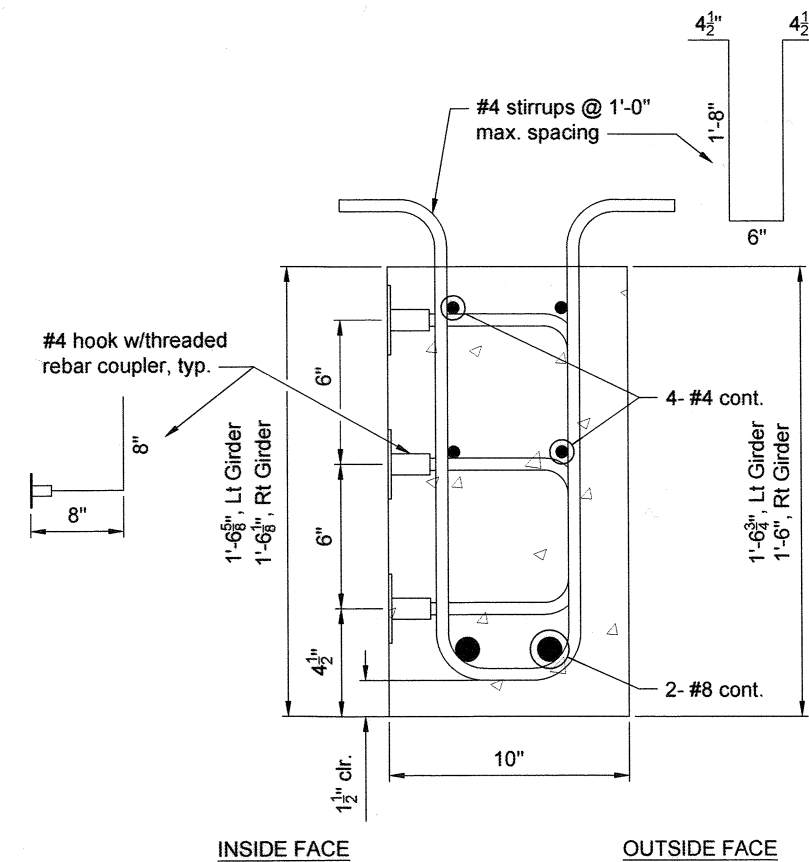
TYPICAL SECTIONS  
SCALE: AS SHOWN  
SHEET BR-04

REGISTERED PROFESSIONAL ENGINEER  
17206PE  
KEVIN M. GROOM  
OREGON  
JULY 19, 1994  
Expires: 6/30/2021

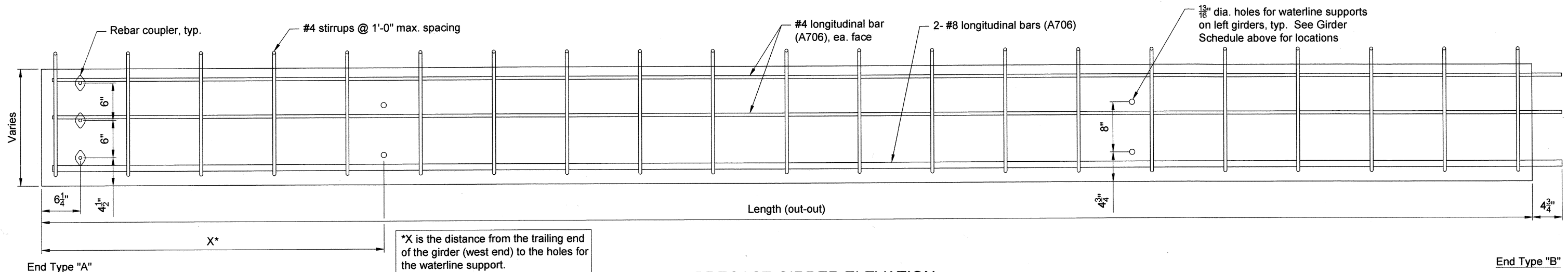


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| PRECAST GIRDER SCHEDULE |          |       |                |                                    |                                       |       |        |        |
|-------------------------|----------|-------|----------------|------------------------------------|---------------------------------------|-------|--------|--------|
| Span No.                | End Type |       | No. of Girders | Horizontal length o-o at girder CL | Concrete Class, psi<br>A = 3/4" or 1" | X     |        |        |
|                         | Back     | Ahead |                |                                    |                                       | Back  | Middle | Ahead  |
| 1                       | A        | B     | 2              | 19'-11"                            | 4,000                                 | -     | -      | 18'-4" |
| 2                       | B        | B     | 2              | 19'-2"                             | 4,000                                 | 1'-7" | 5'-7"  | 13'-7" |
| 3                       | B        | B     | 2              | 19'-2"                             | 4,000                                 | 1'-7" | 5'-7"  | 13'-7" |
| 4                       | B        | B     | 2              | 19'-2"                             | 4,000                                 | 1'-7" | 5'-7"  | 13'-7" |
| 5                       | B        | B     | 2              | 19'-2"                             | 4,000                                 | 1'-7" | 5'-7"  | 13'-7" |
| 6                       | B        | A     | 2              | 19'-2"                             | 4,000                                 | 1'-7" | 5'-7"  | 13'-7" |
| 7                       | B        | A     | 2              | 18'-8"                             | 4,000                                 | 1'-7" | 6'-1"  | -      |
| 9                       | A        | B     | 2              | 13'-2"                             | 4,000                                 | -     | -      | -      |
| 10                      | B        | B     | 2              | 13'-8"                             | 4,000                                 | -     | 7'-1"  | -      |
| 11                      | B        | B     | 2              | 13'-8"                             | 4,000                                 | -     | 6'-7"  | -      |
| 12                      | B        | A     | 2              | 14'-5"                             | 4,000                                 | 3'-1" | 5'-7"  | -      |



**PRECAST GIRDER DETAILS**  
1-1/2" = 1'-0"



**PRECAST GIRDER ELEVATION**  
NO SCALE

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

REGISTERED PROFESSIONAL ENGINEER  
17206PE  
KEVIN M. GROOM  
JULY 19, 1994  
OREGON  
Expires: 6/30/2021



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CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: |
|-------|-----------|-----|
|       |           |     |
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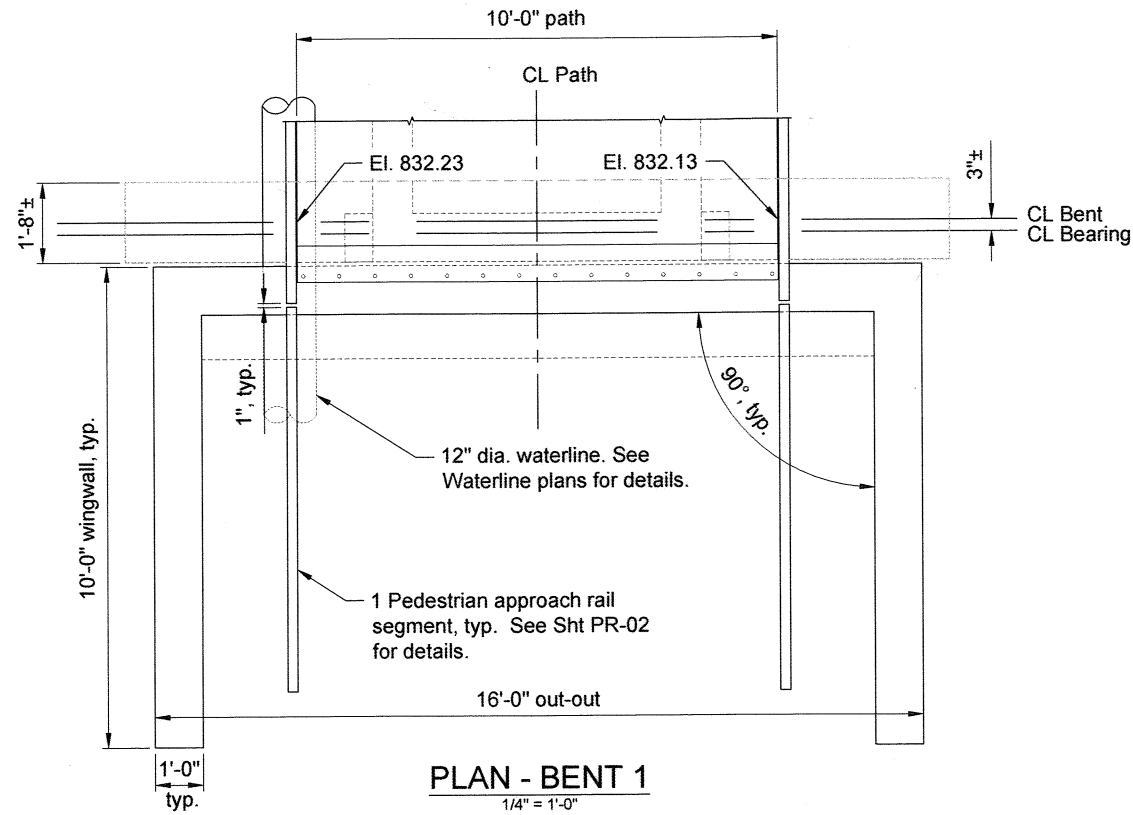
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|-------------------------------------------|-----------------------|
| BRIDGE NO: N/A                            | DATE: 10/09/2020      |
| PROJECT NO: B1804                         |                       |
| TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
| DESIGNED BY: K. Groom                     | CHECKED BY: A. Potts  |
| DRAFTED BY: K. Groom                      | REVIEWED BY: C. Knoll |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

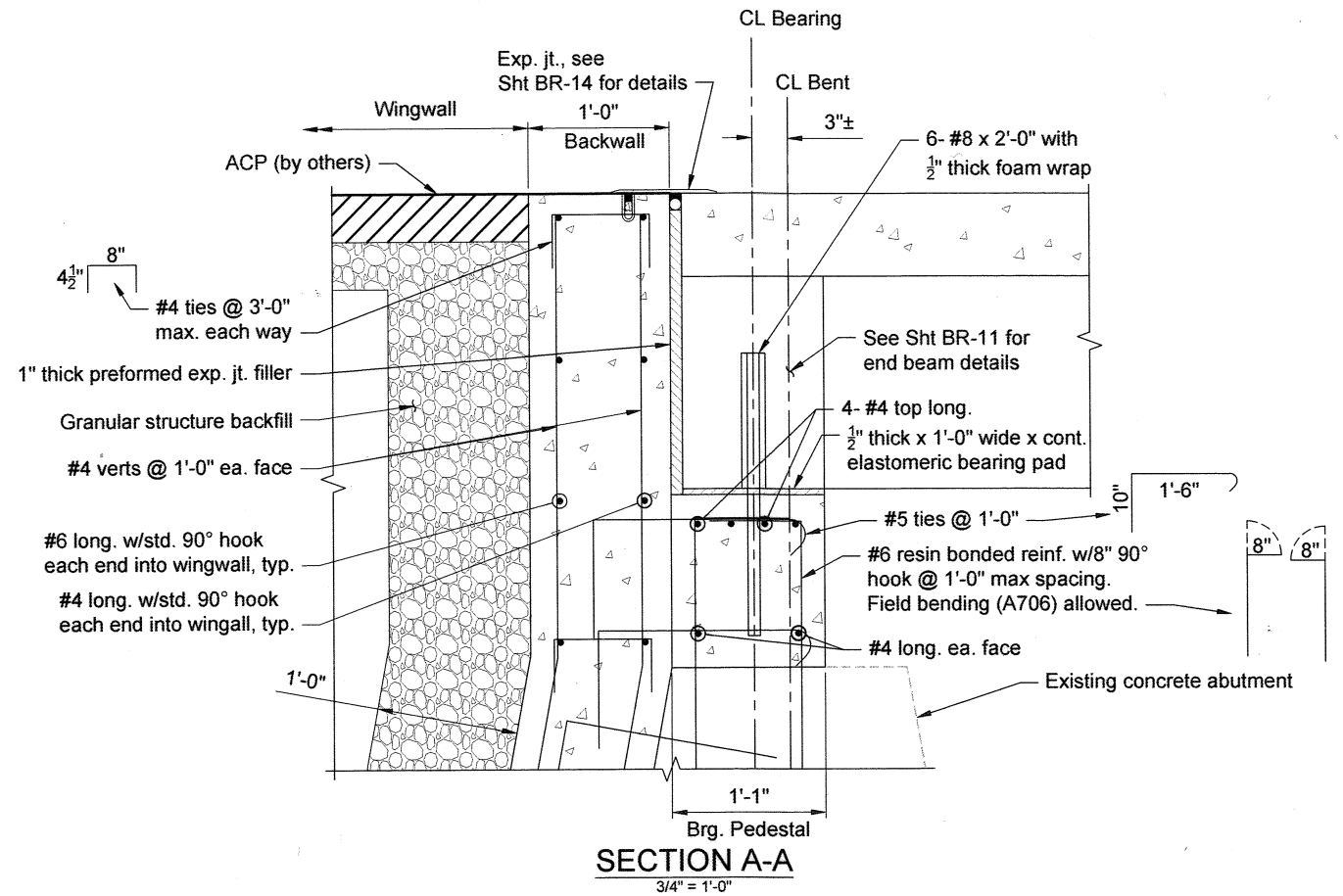
PRECAST GIRDER DETAILS (OPTIONAL)  
SCALE: AS SHOWN SHEET BR-05

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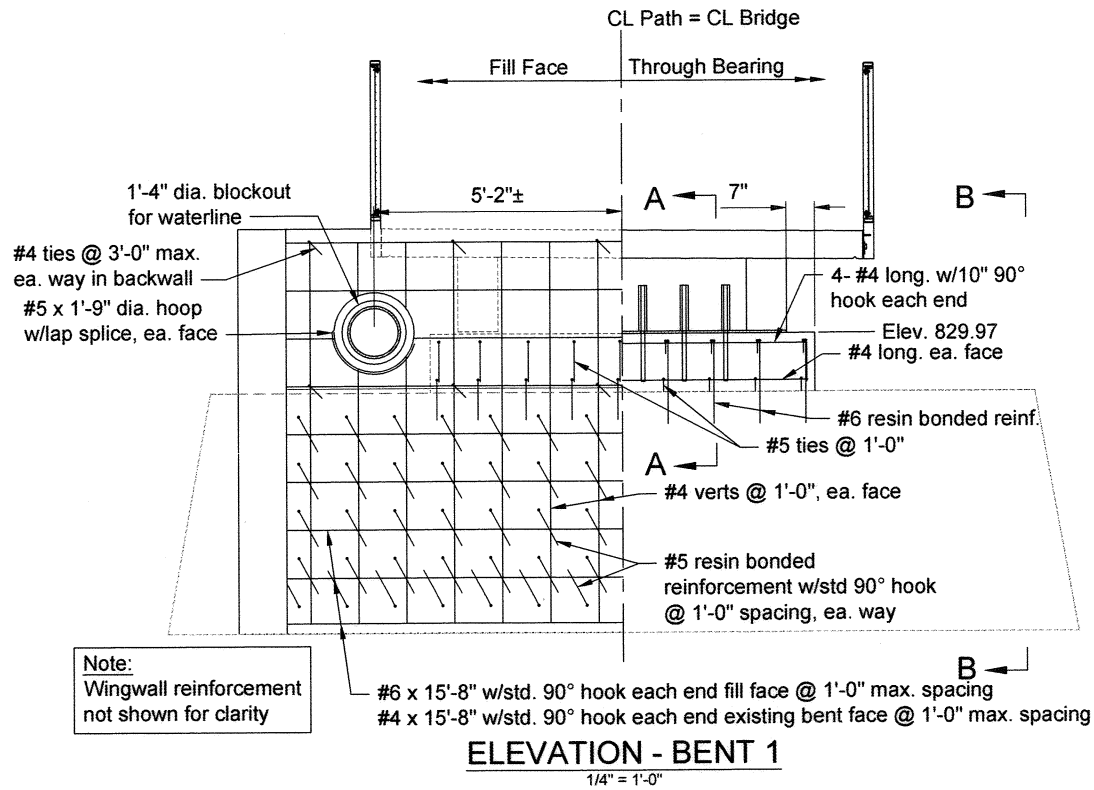
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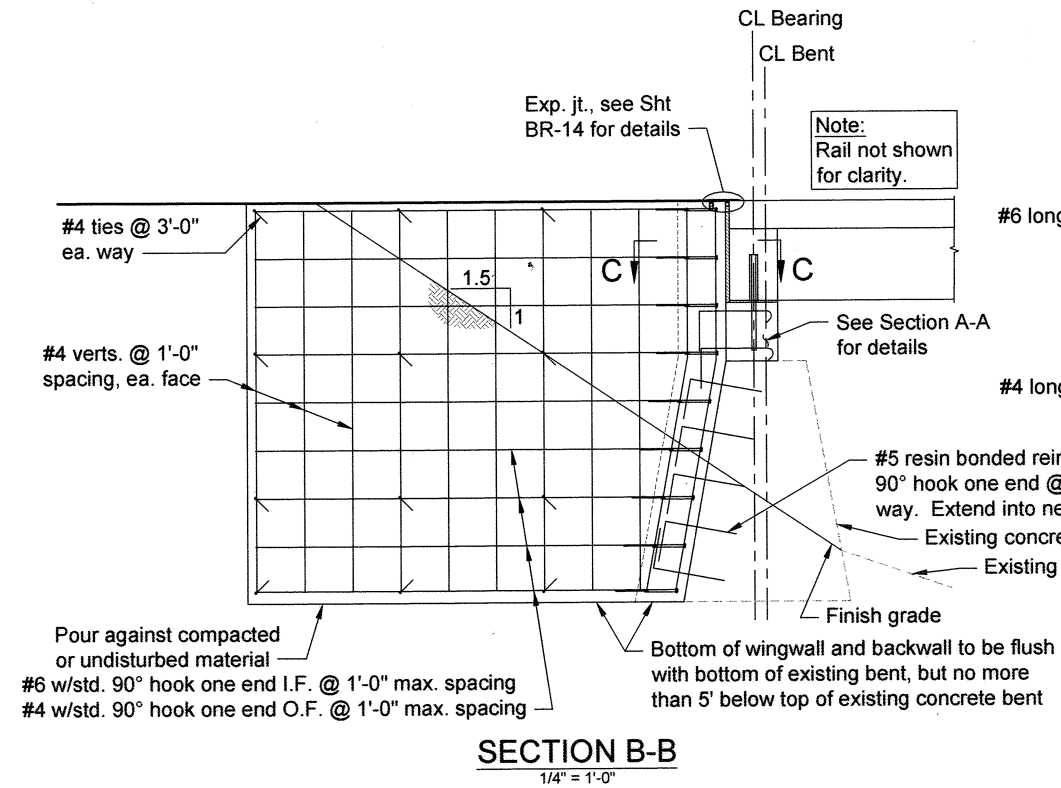
**PLAN - BENT 1**  
1/4" = 1'-0"



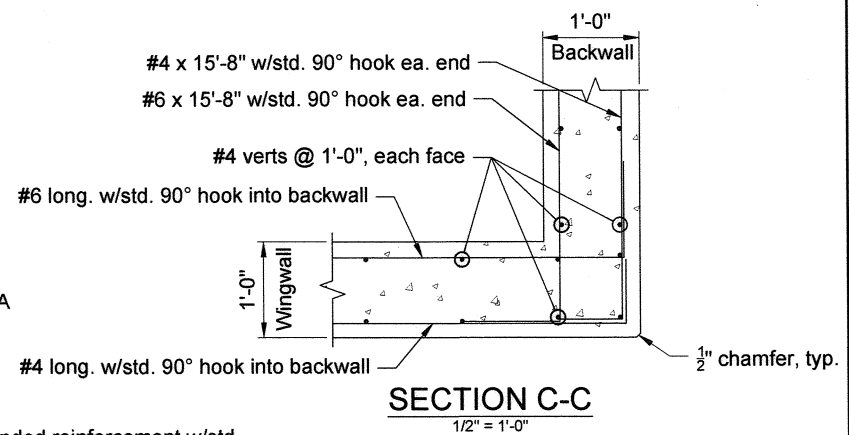
**SECTION A-A**  
3/4" = 1'-0"



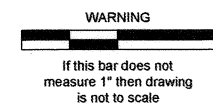
**ELEVATION - BENT 1**  
1/4" = 1'-0"



**SECTION B-B**  
1/4" = 1'-0"



**SECTION C-C**  
1/2" = 1'-0"



Expires: 6/30/2021

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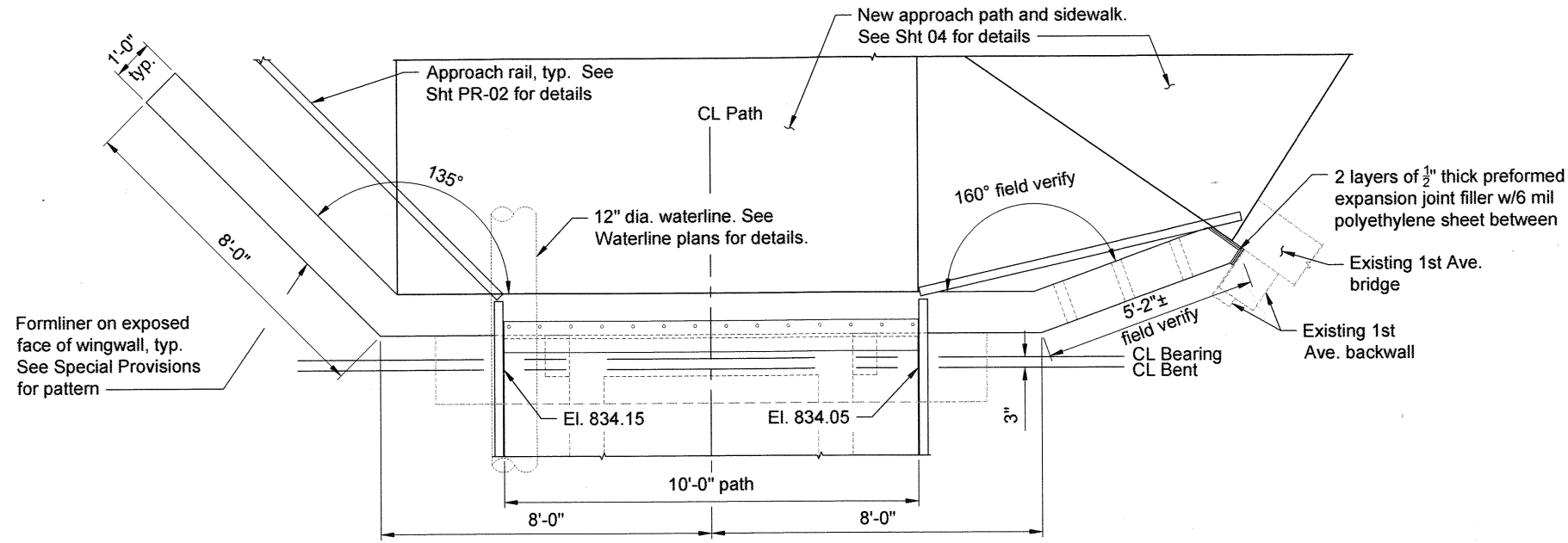
**ROADMASTER**  
WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: | BRIDGE NO:   | N/A                                  | DATE:        | 10/09/2020 |
|-------|-----------|-----|--------------|--------------------------------------|--------------|------------|
|       |           |     | PROJECT NO:  | B1804                                |              |            |
|       |           |     | TRS:         | T. 09 S., R. 03 E., SECTION 30, W.M. |              |            |
|       |           |     | DESIGNED BY: | K. Groom                             | CHECKED BY:  | A. Potts   |
|       |           |     | DRAFTED BY:  | K. Groom                             | REVIEWED BY: | C. Knoll   |

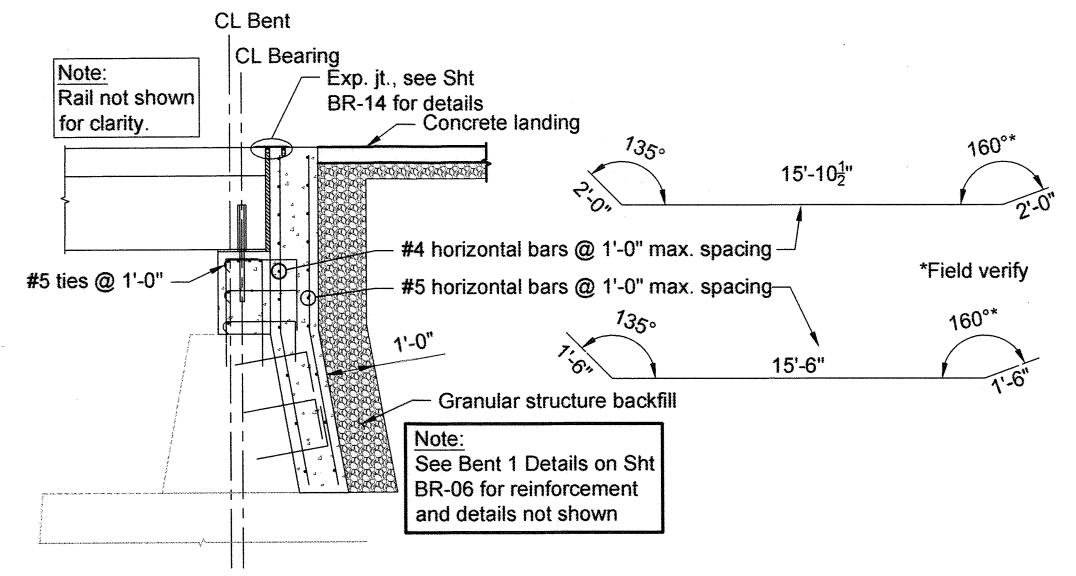
**NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE**  
LINN COUNTY

**BENT 1 DETAILS**  
SCALE: AS SHOWN  
SHEET BR-06

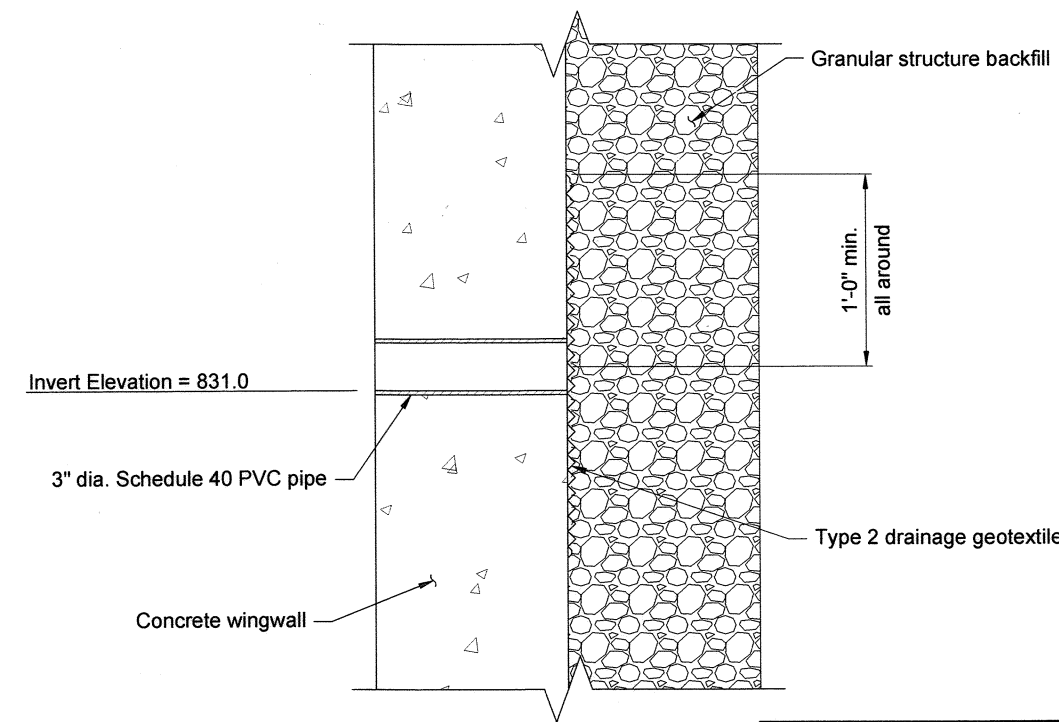
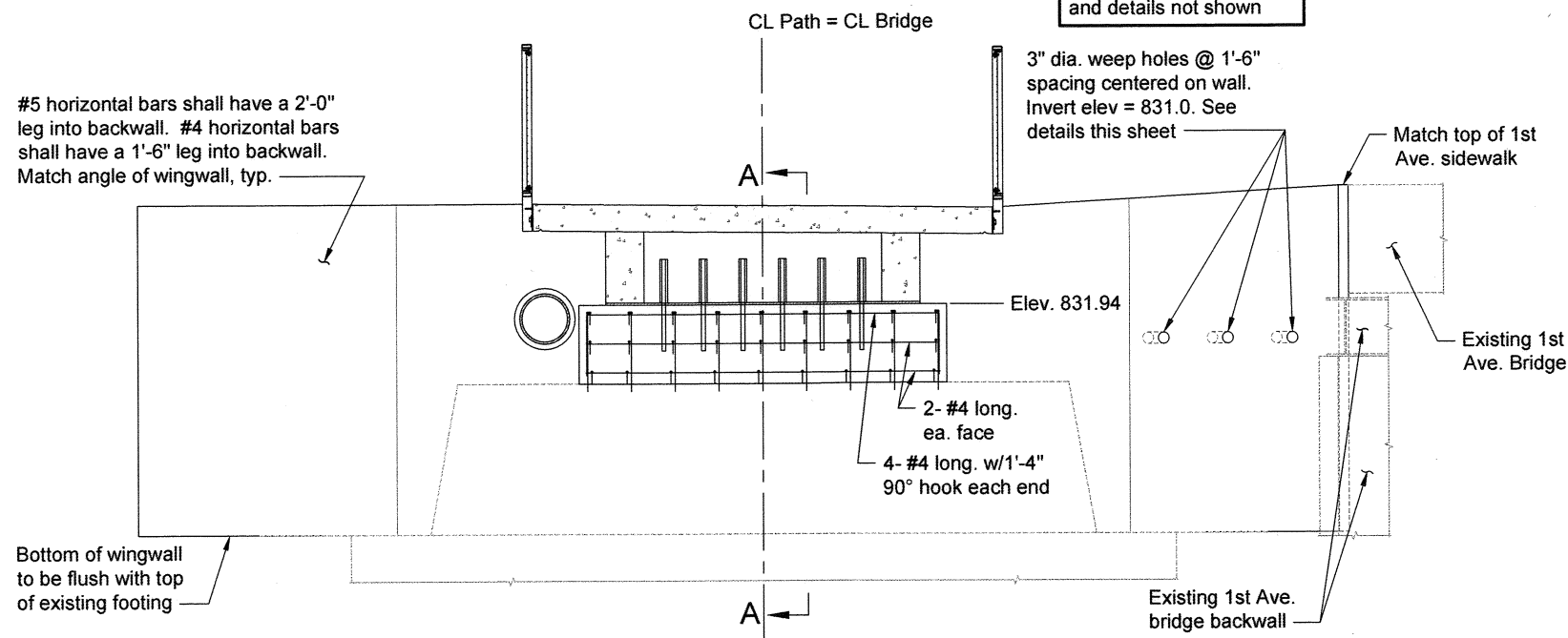
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**Note:**  
See Bent 1 Details on Sht BR-06 for reinforcement and details not shown



**Note:**  
See Bent 1 Details on Sht BR-06 for reinforcement and details not shown



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



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|       |           |     |
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|       |           |     |

|                                           |                       |
|-------------------------------------------|-----------------------|
| BRIDGE NO: N/A                            | DATE: 10/09/2020      |
| PROJECT NO: B1804                         |                       |
| TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
| DESIGNED BY: K. Groom                     | CHECKED BY: A. Potts  |
| DRAFTED BY: K. Groom                      | REVIEWED BY: C. Knoll |

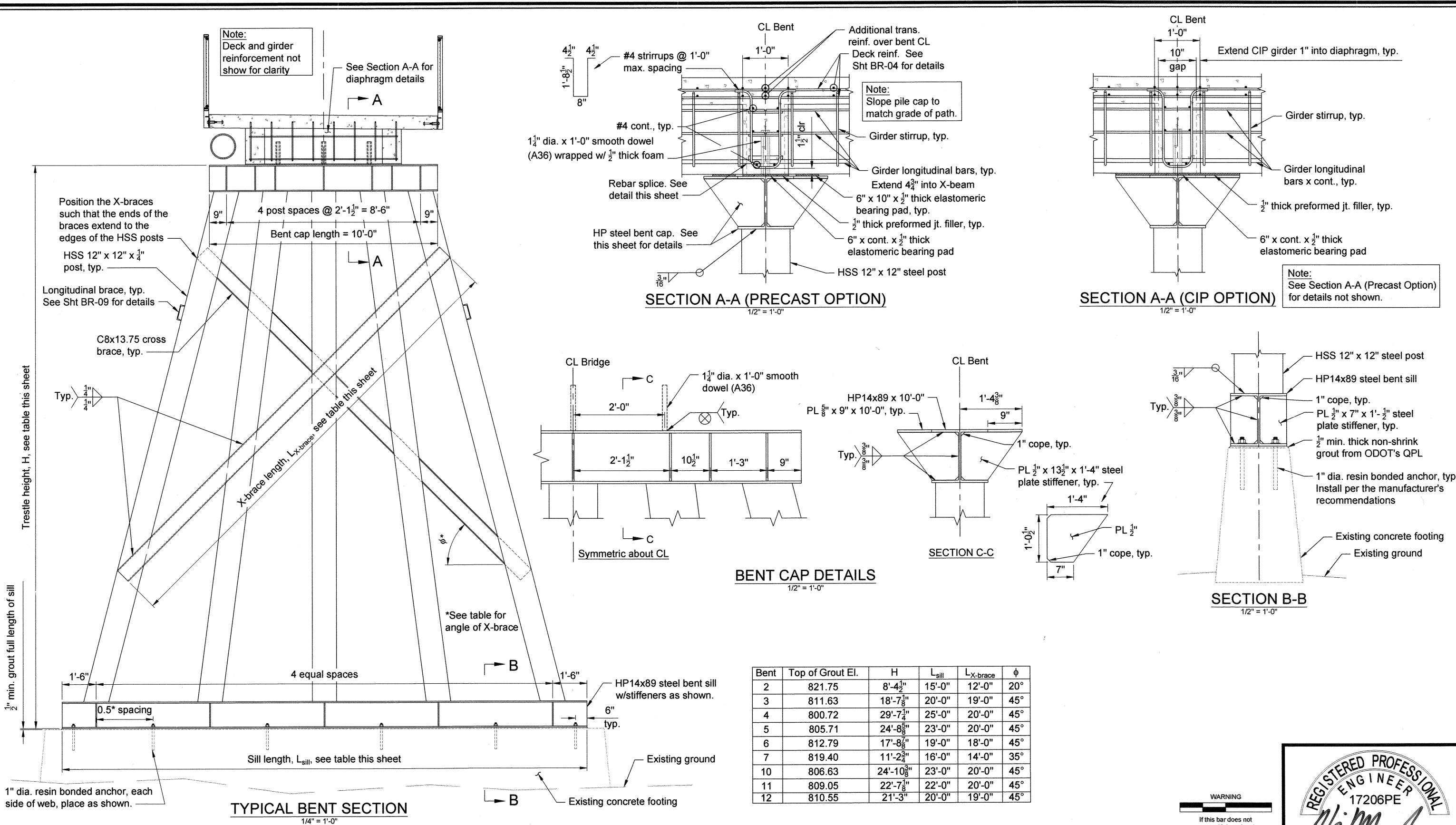
NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

BENT 13 DETAILS  
SCALE: AS SHOWN  
SHEET BR-07

**REGISTERED PROFESSIONAL ENGINEER**  
17206PE  
*Kevin M. Groom*  
OREGON  
JULY 19, 1994  
KEYVIN M. GROOM  
Expires: 6/30/2021

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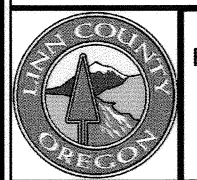
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| Bent | Top of Grout El. | H           | L <sub>sill</sub> | L <sub>X-brace</sub> | φ   |
|------|------------------|-------------|-------------------|----------------------|-----|
| 2    | 821.75           | 8'-4 1/2"   | 15'-0"            | 12'-0"               | 20° |
| 3    | 811.63           | 18'-7 3/8"  | 20'-0"            | 19'-0"               | 45° |
| 4    | 800.72           | 29'-7 1/4"  | 25'-0"            | 20'-0"               | 45° |
| 5    | 805.71           | 24'-8 5/8"  | 23'-0"            | 20'-0"               | 45° |
| 6    | 812.79           | 17'-8 3/8"  | 19'-0"            | 18'-0"               | 45° |
| 7    | 819.40           | 11'-2 3/4"  | 16'-0"            | 14'-0"               | 35° |
| 10   | 806.63           | 24'-10 3/8" | 23'-0"            | 20'-0"               | 45° |
| 11   | 809.05           | 22'-7 3/8"  | 22'-0"            | 20'-0"               | 45° |
| 12   | 810.55           | 21'-3"      | 20'-0"            | 19'-0"               | 45° |

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

**REGISTERED PROFESSIONAL ENGINEER**  
17206PE  
*Kevin M. Groom*  
OREGON  
JULY 19, 1994  
KEYVIN M. GROOM  
Expires: 6/30/2021



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**ROADMASTER**  
WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

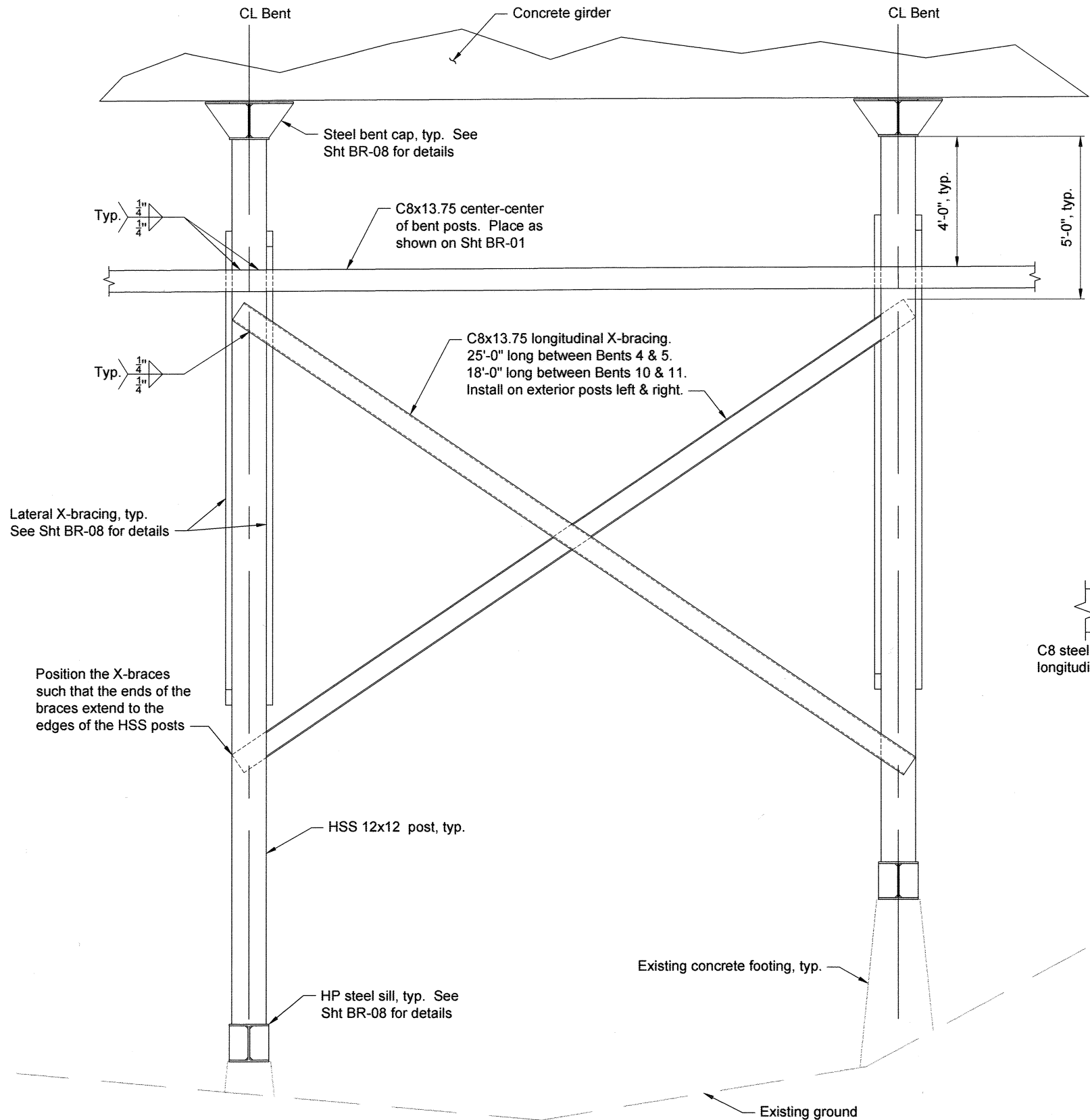
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BRIDGE NO: N/A DATE: 10/09/2020  
PROJECT NO: B1804  
TRS: T. 09 S., R. 03 E., SECTION 30, W.M.  
DESIGNED BY: K. Groom CHECKED BY: A. Potts  
DRAFTED BY: K. Groom REVIEWED BY: C. Knoll

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

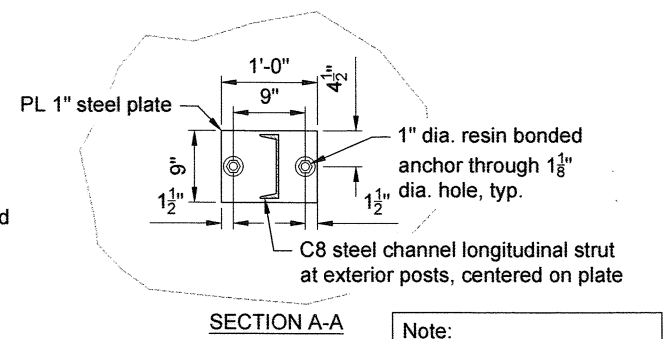
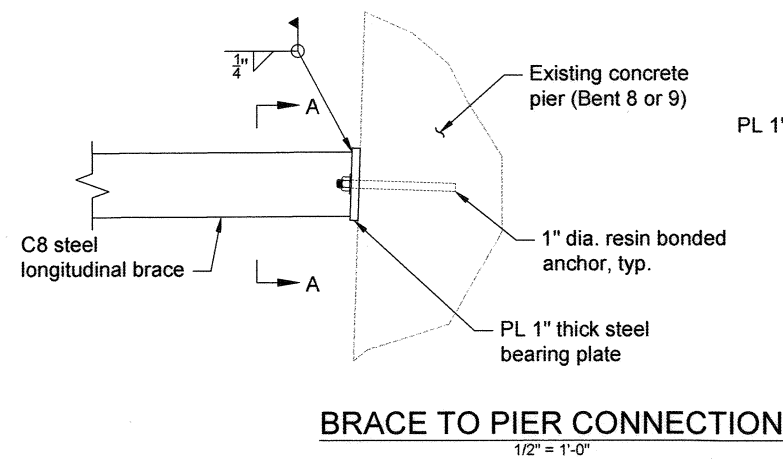
TYPICAL BENT DETAILS  
SCALE: AS SHOWN SHEET BR-08

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**TYPICAL BENT SECTION**  
1/4" = 1'-0"



**Note:**  
Rotate plate as required to match angle of long. brace

**WARNING**  
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**ROADMASTER**  
WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

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|-------|-----------|-----|
|       |           |     |
|       |           |     |
|       |           |     |

|              |                                      |              |            |
|--------------|--------------------------------------|--------------|------------|
| BRIDGE NO:   | N/A                                  | DATE:        | 10/09/2020 |
| PROJECT NO:  | B1804                                |              |            |
| TRS:         | T. 09 S., R. 03 E., SECTION 30, W.M. |              |            |
| DESIGNED BY: | K. Groom                             | CHECKED BY:  | A. Potts   |
| DRAFTED BY:  | K. Groom                             | REVIEWED BY: | C. Knoll   |

**NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE**  
  
LINN COUNTY

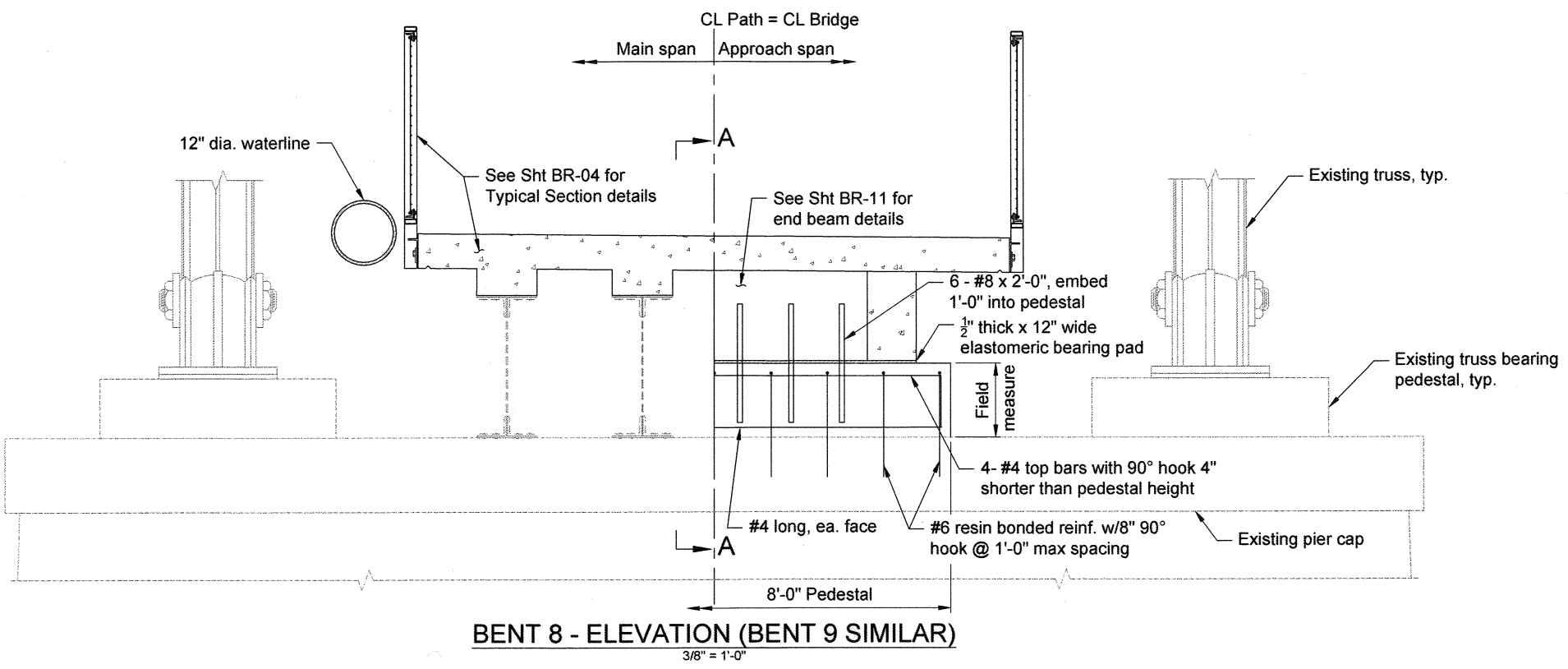
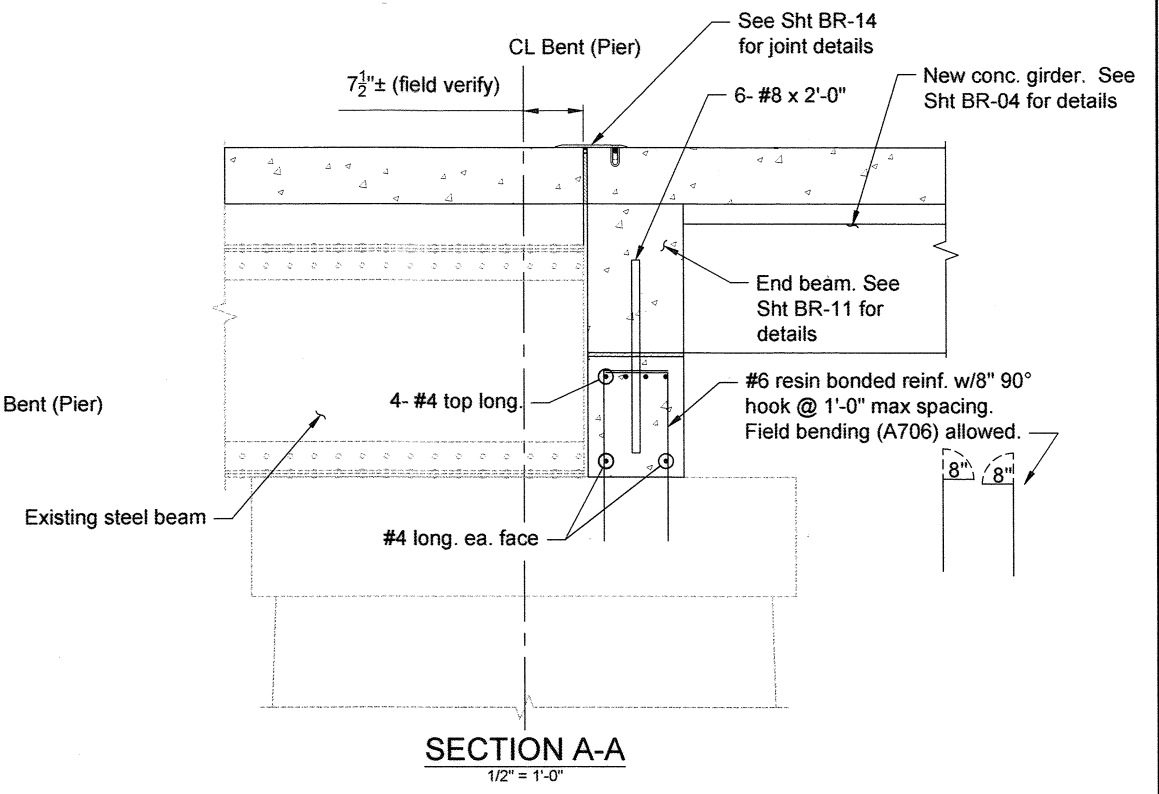
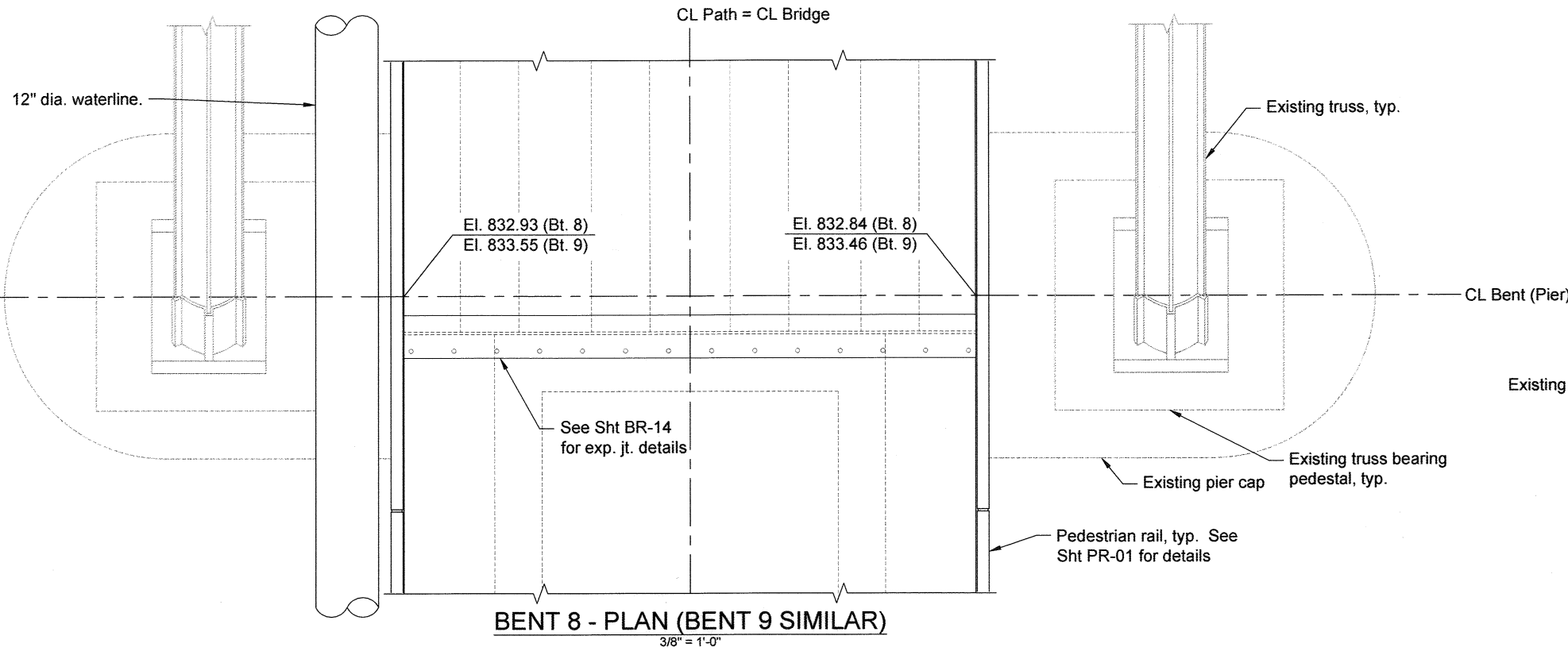
**LONGITUDINAL BRACING DETAILS**  
  
SCALE: AS SHOWN SHEET BR-09

**REGISTERED PROFESSIONAL ENGINEER**  
17206PE  
*Kevin M. Groom*  
OREGON  
JULY 19, 1994  
**KEVIN M. GROOM**  
Expires: 6/30/2021



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WARNING

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|-------------------------------------------|-------|-----------|-----|
| ROADMASTER<br>WAYNE MINK, P.E.            | DATE: | REVISION: | BY: |
| COUNTY ENGINEER<br>CHARLES R. KNOLL, P.E. |       |           |     |

|                                           |                       |
|-------------------------------------------|-----------------------|
| BRIDGE NO: N/A                            | DATE: 10/09/2020      |
| PROJECT NO: B1804                         |                       |
| TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
| DESIGNED BY: K. Groom                     | CHECKED BY: A. Potts  |
| DRAFTED BY: K. Groom                      | REVIEWED BY: C. Knoll |

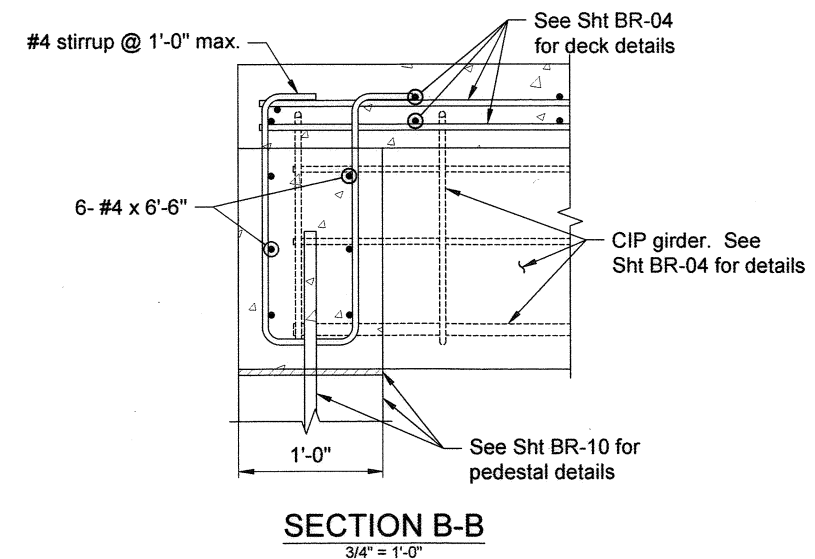
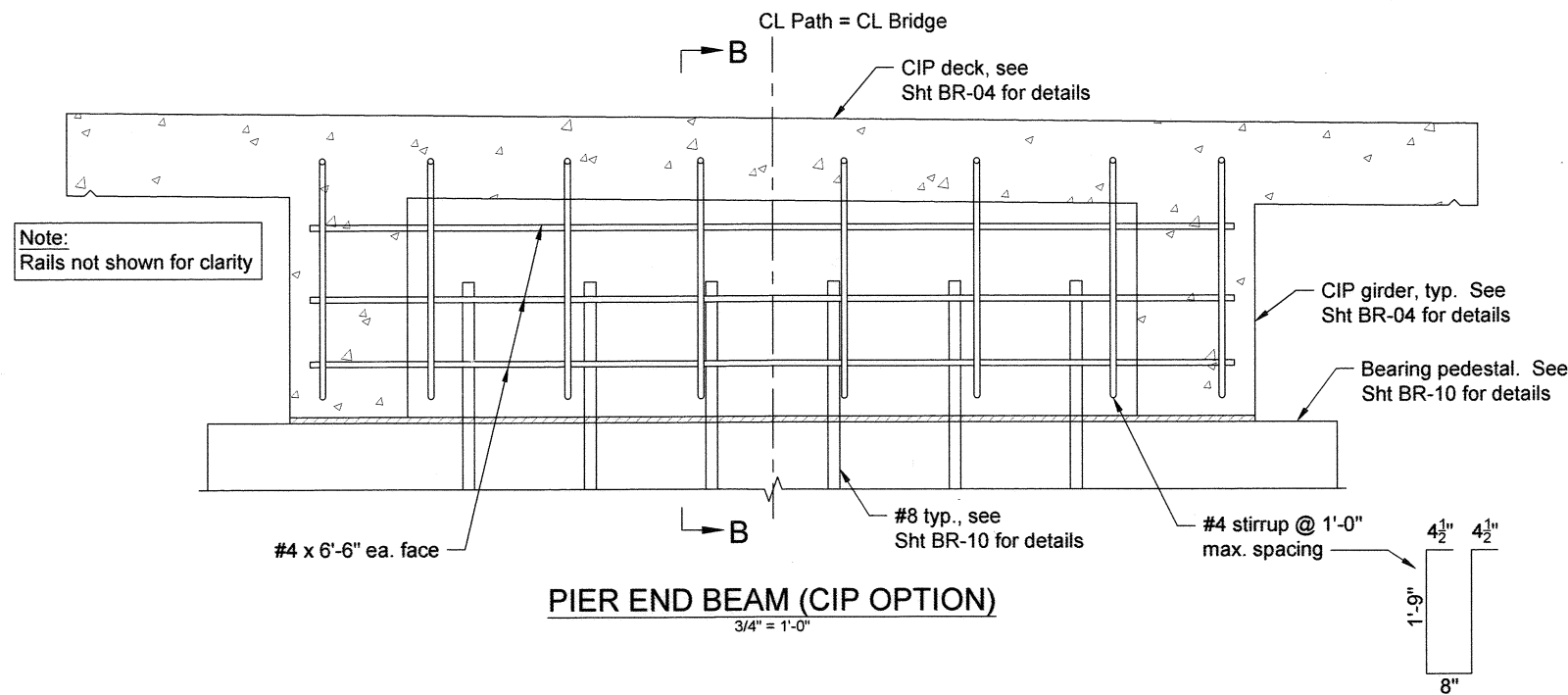
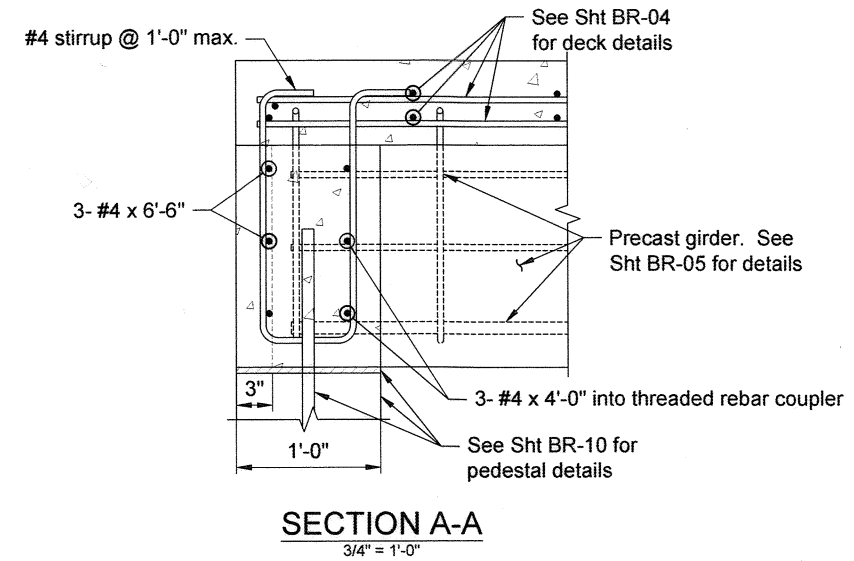
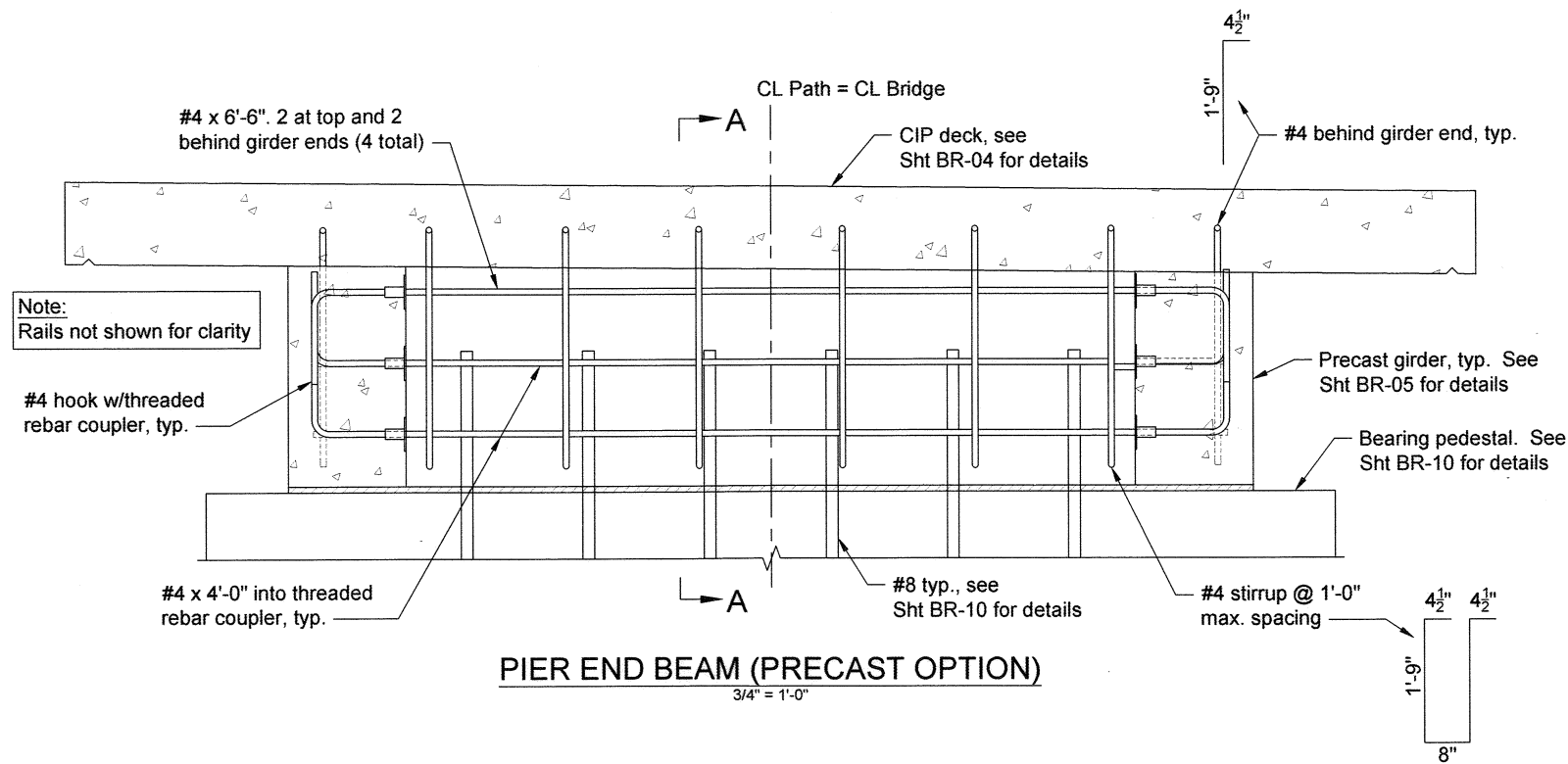
NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE

LINN COUNTY

PIER DETAILS

SCALE: AS SHOWN SHEET BR-10

Expires: 6/30/2021



WARNING  
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|       |           |     | PROJECT NO: B1804                         |                       |
|       |           |     | TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
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|       |           |     | DRAFTED BY: K. Groom                      | REVIEWED BY: C. Knoll |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE

LINN COUNTY

PIER END BEAM DETAILS

SCALE: AS SHOWN

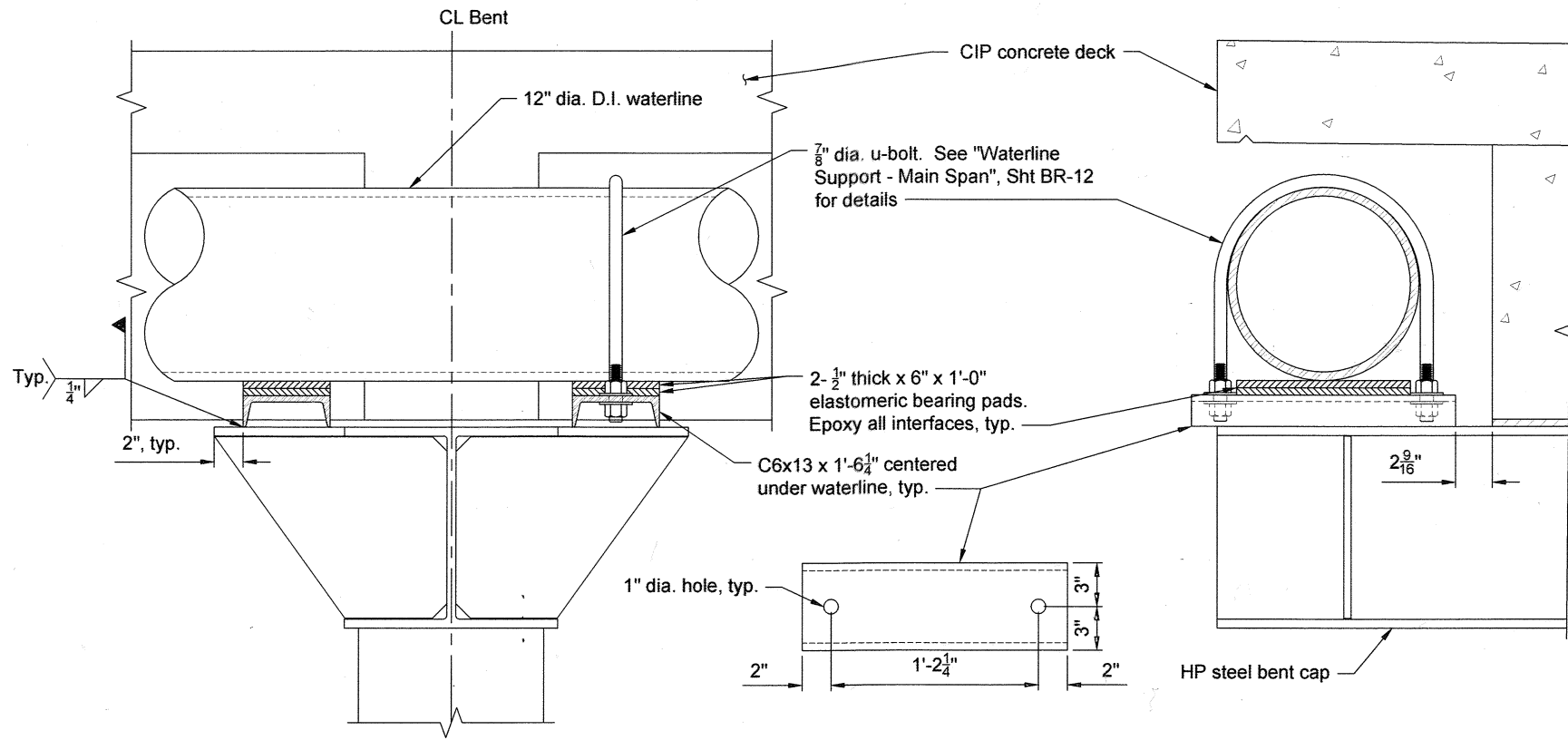
SHEET BR-11



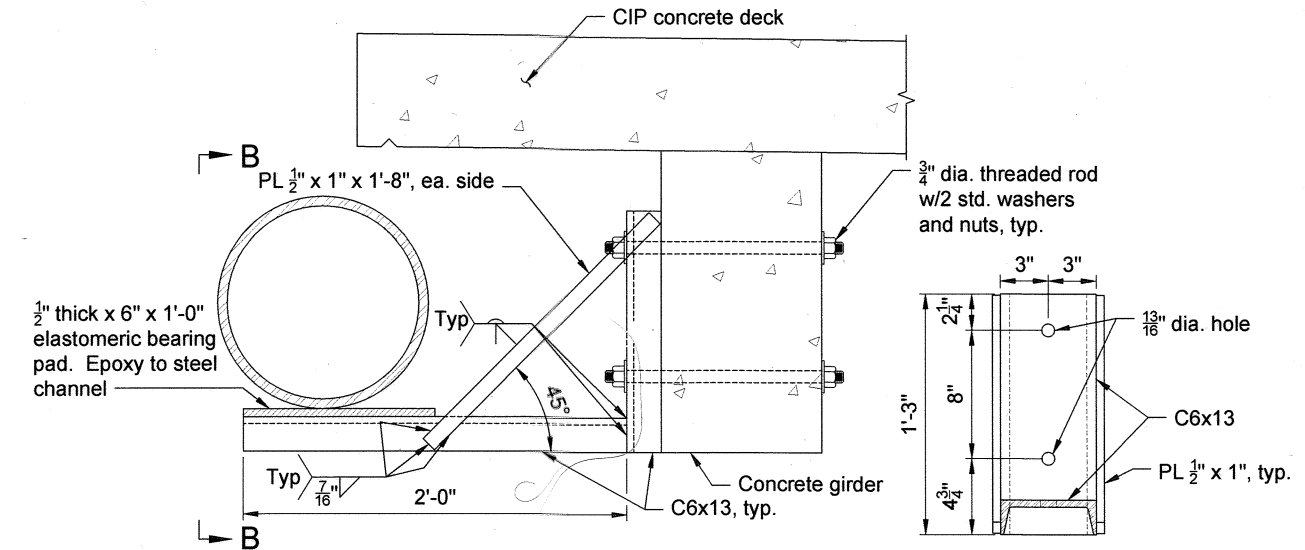
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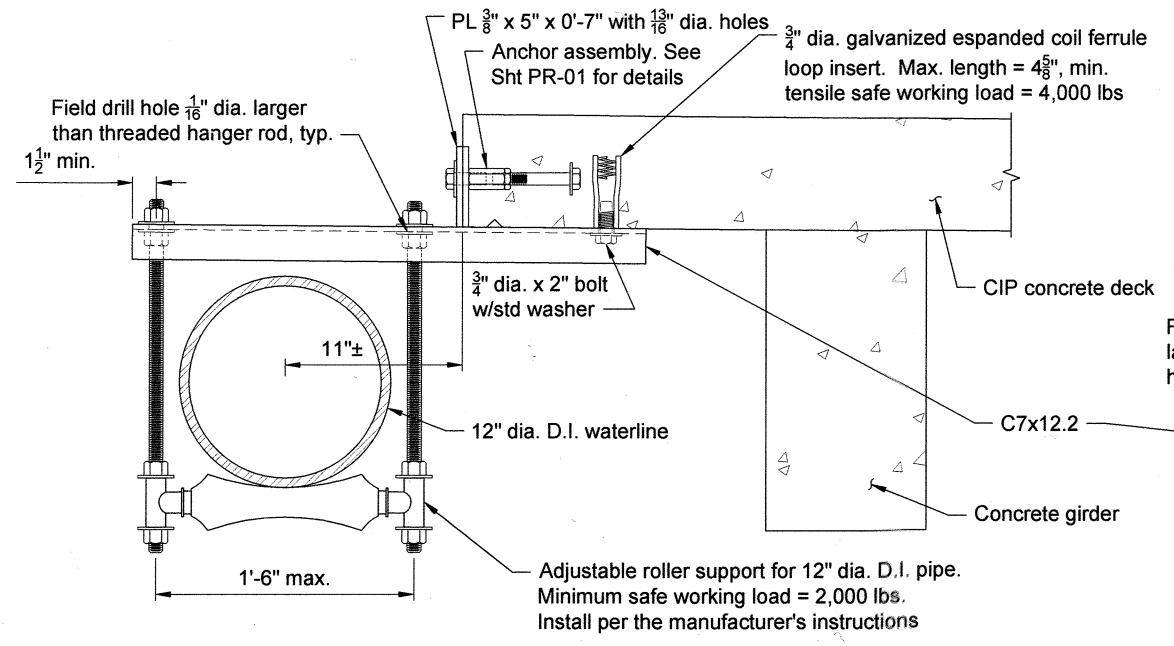
**WATERLINE SUPPORT @ TYPE D (3 REQ'D)**  
1" = 1'-0"



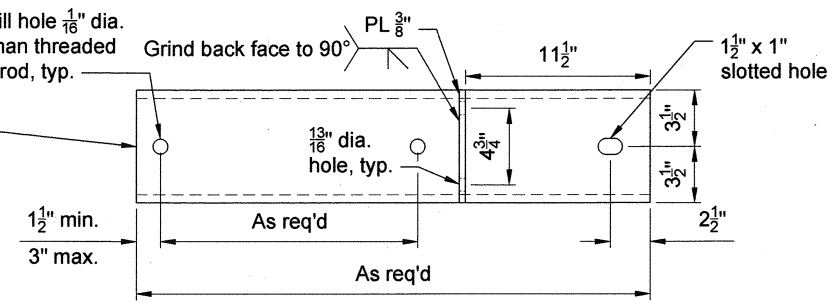
**WATERLINE SUPPORT @ TYPE E (2 REQ'D)**  
1" = 1'-0"

**VIEW B-B OF BRACKET**  
1" = 1'-0"

**Note:**  
See waterline plans for locations of waterline supports.



**WATERLINE SUPPORT @ TYPE F (2 REQ'D)**  
1" = 1'-0"



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



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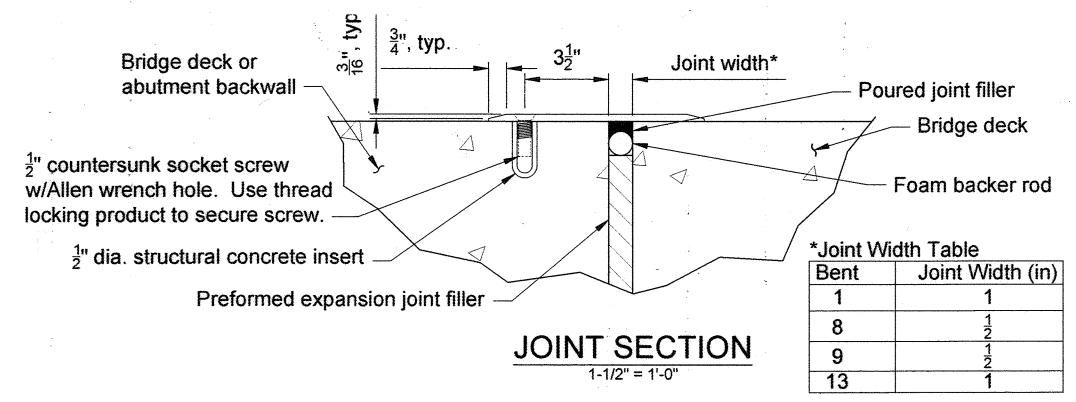
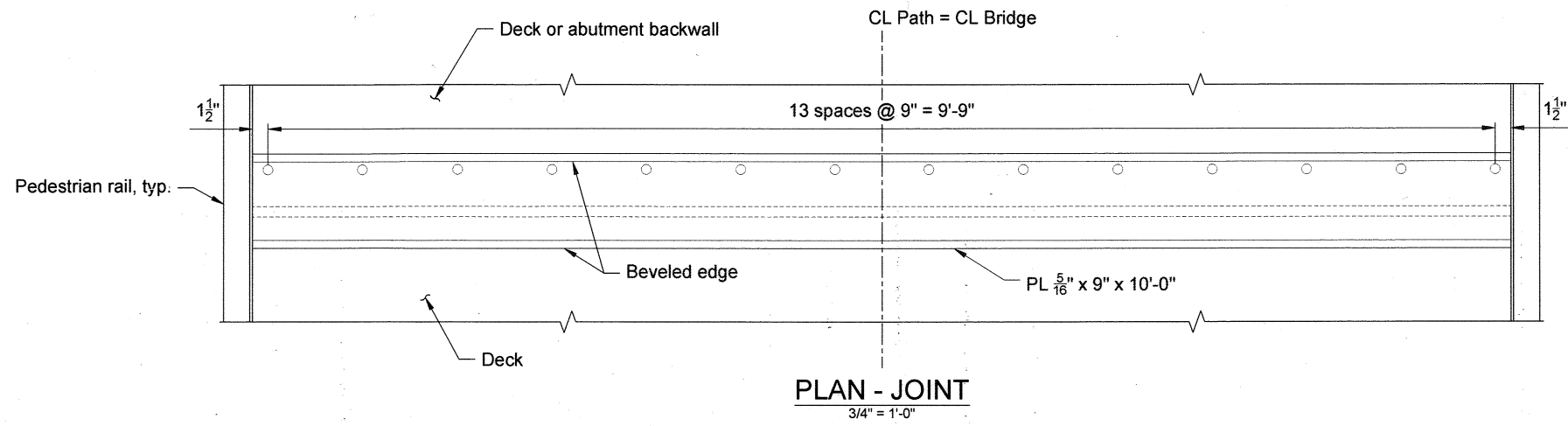
**COUNTY COMMISSION**  
ROGER NYQUIST  
CHAIRMAN  
JOHN LINDSEY  
WILLIAM TUCKER

**ROADMASTER**  
WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: | BRIDGE NO:                           | DATE:                 |
|-------|-----------|-----|--------------------------------------|-----------------------|
|       |           |     | N/A                                  | 10/09/2020            |
|       |           |     | B1804                                |                       |
|       |           |     | T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
|       |           |     | DESIGNED BY: K. Groom                | CHECKED BY: A. Potts  |
|       |           |     | DRAFTED BY: K. Groom                 | REVIEWED BY: C. Knoll |

**NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE**  
  
LINN COUNTY

**WATERLINE SUPPORT DETAILS -2**  
  
SCALE: AS SHOWN SHEET BR-13



**\*Joint Width Table**

| Bent | Joint Width (in) |
|------|------------------|
| 1    | 1                |
| 8    | 1/2              |
| 9    | 1/2              |
| 13   | 1                |

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



**LINN COUNTY ROAD DEPARTMENT**  
3010 FERRY STREET SW  
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E-MAIL: Roads@co.linn.or.us

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

**ROADMASTER**  
WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: |
|-------|-----------|-----|
|       |           |     |
|       |           |     |
|       |           |     |
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|                                           |                       |
|-------------------------------------------|-----------------------|
| BRIDGE NO: N/A                            | DATE: 10/09/2020      |
| PROJECT NO: B1804                         |                       |
| TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
| DESIGNED BY: K. Groom                     | CHECKED BY: A. Potts  |
| DRAFTED BY: K. Groom                      | REVIEWED BY: C. Knoll |

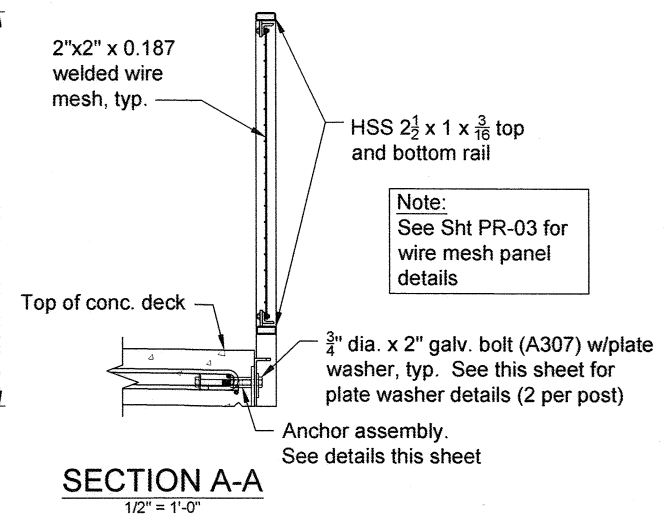
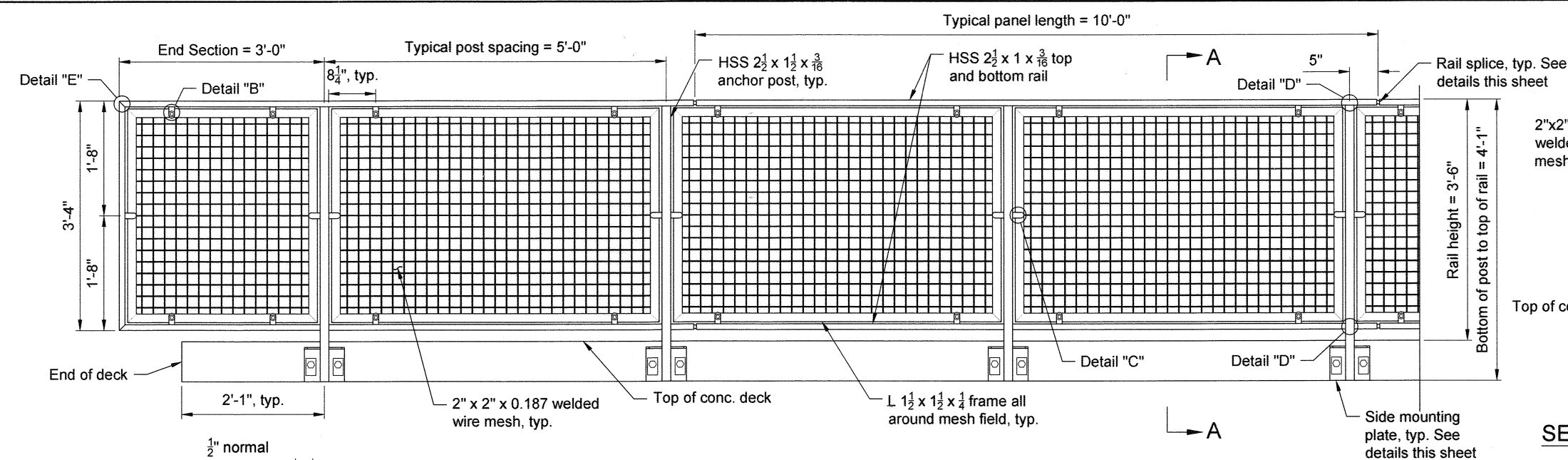
NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

MISCELLANEOUS DETAILS  
SCALE: AS SHOWN  
SHEET BR-14

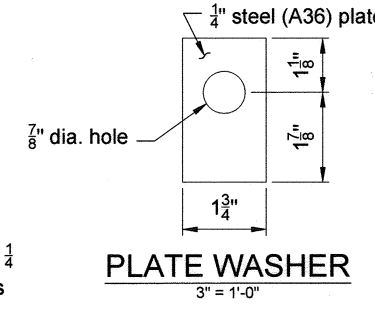
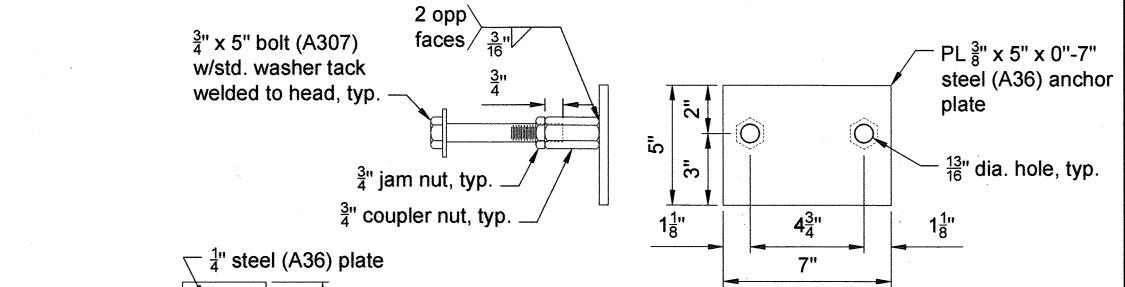
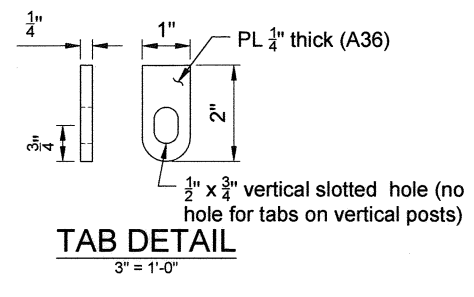
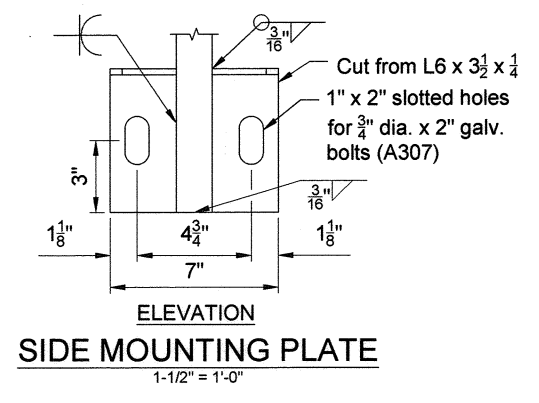
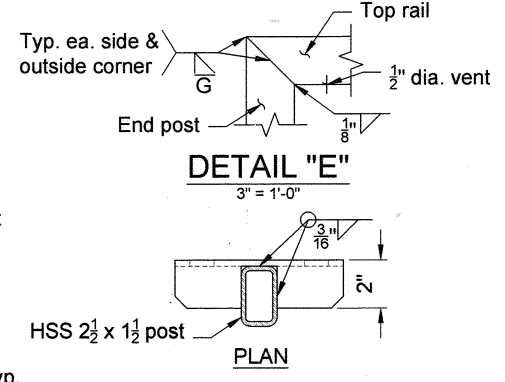
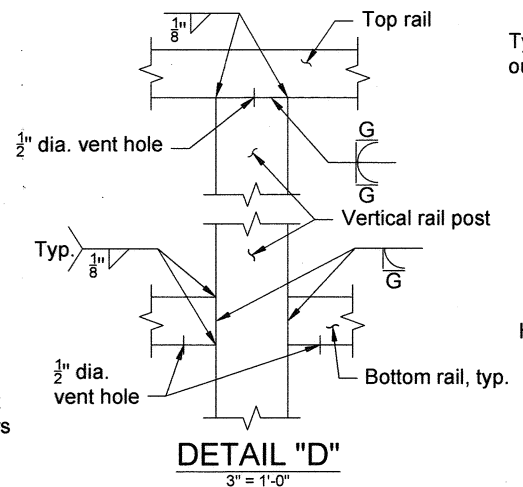
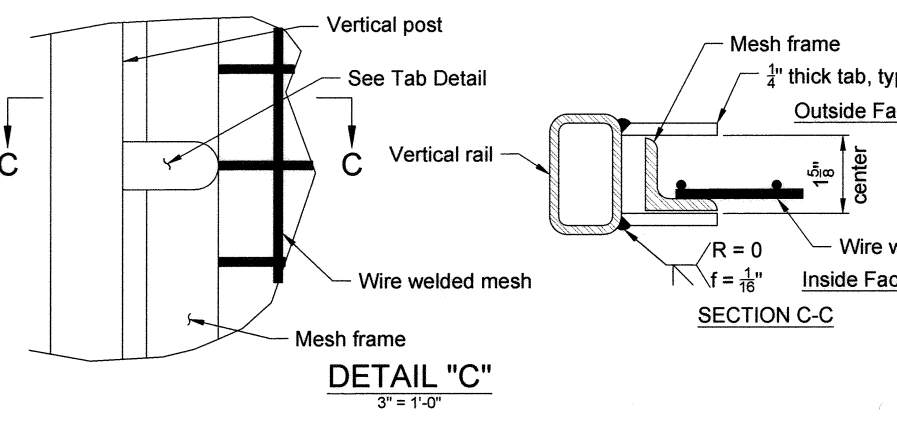
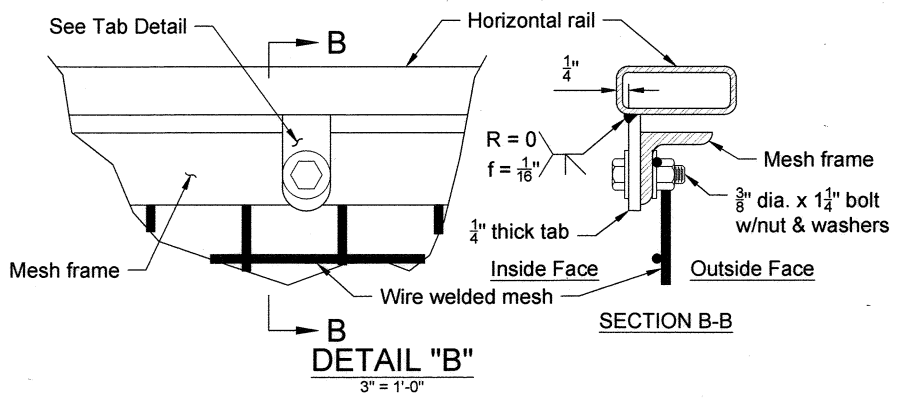
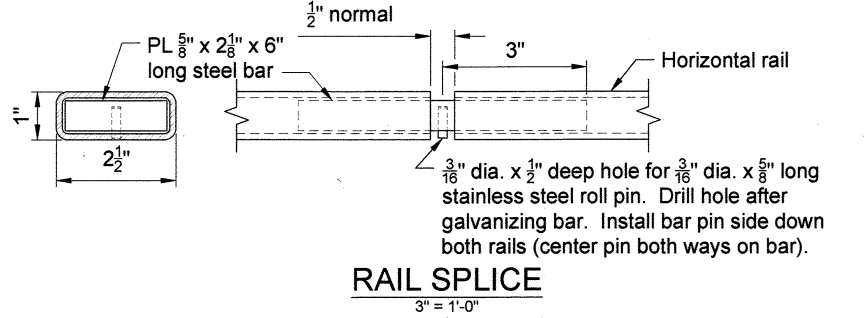
**Expires: 6/30/2021**



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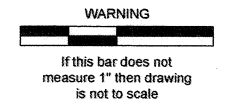


**PEDESTRIAN BRIDGE RAIL - ELEVATION**  
1/2" = 1'-0"



**ANCHOR ASSEMBLY**  
1-1/2" = 1'-0"

**Rail General Notes:**  
Provide hollow structural sections (HSS) according to ASTM A500, Grade B.  
Provide all other structure steel according to ASTM A36, unless otherwise noted.  
Provide all bolts according to ASTM A307, Grade A, all nuts according to ASTM A563, and all standard washers according to ASTM F436.  
Construct railing conforming to the horizontal and vertical alignment of the structure. Install posts normal to grade in longitudinal direction and vertical in the transverse direction.  
Provide continuous top horizontal rail elements over a minimum of two posts. Provide a minimum of two anchor posts per rail panel.  
Hot dip galvanize anchor assembly and all fasteners according to Specification 02530.70  
Powder coat all rail elements according to the specifications.



REGISTERED PROFESSIONAL ENGINEER  
17206PE  
KEVIN M. GROOM  
OREGON  
JULY 19, 1994  
Expires: 6/30/2021



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WILLIAM TUCKER

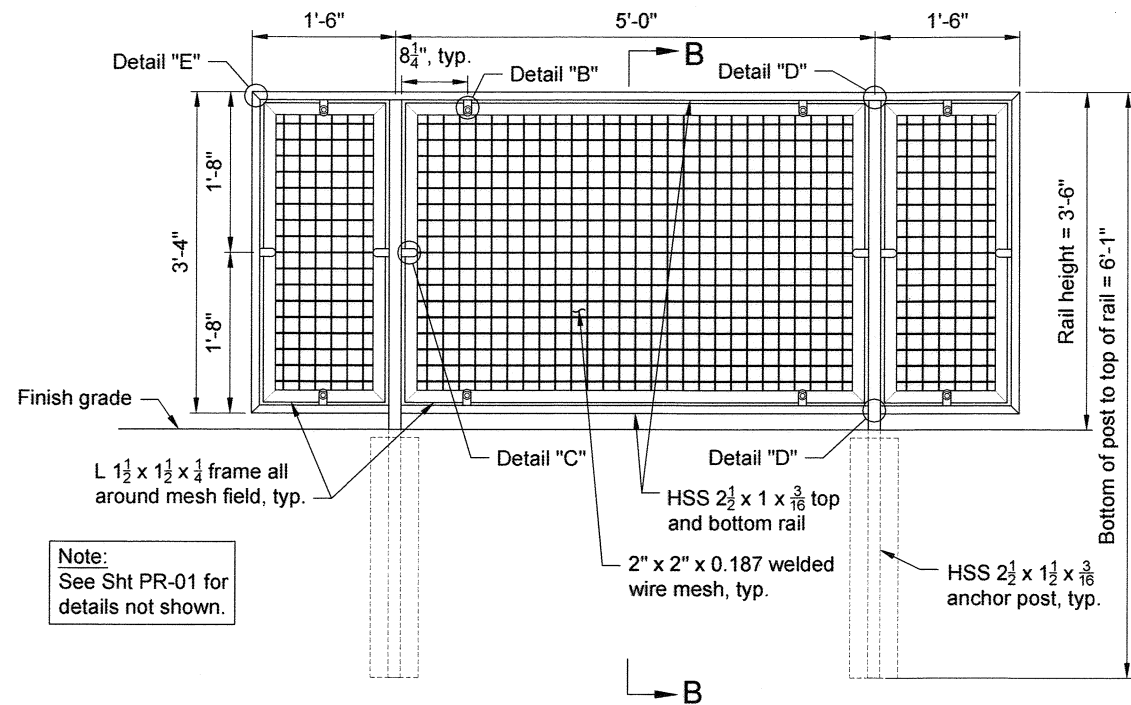
**ROADMASTER**  
WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: | BRIDGE NO.:                          | DATE:                 |
|-------|-----------|-----|--------------------------------------|-----------------------|
|       |           |     | N/A                                  | 10/09/2020            |
|       |           |     | B1804                                |                       |
|       |           |     | T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
|       |           |     | DESIGNED BY: K. Groom                | CHECKED BY: A. Potts  |
|       |           |     | DRAFTED BY: K. Groom                 | REVIEWED BY: C. Knoll |

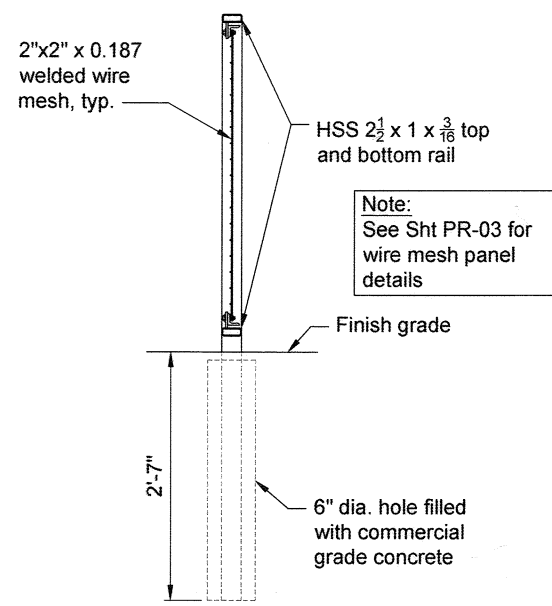
NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

PEDESTRIAN RAIL BRIDGE RAIL  
SCALE: AS SHOWN SHEET PR-01

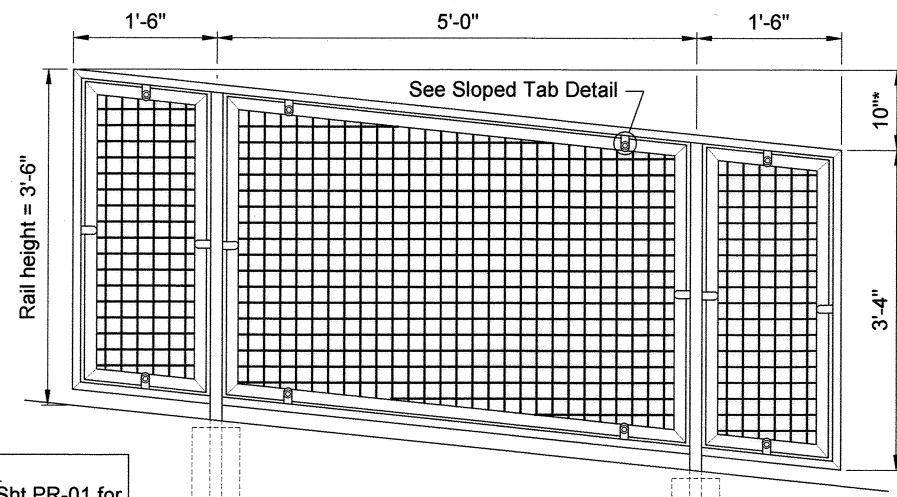
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**PEDESTRIAN APPROACH RAIL - ELEVATION**  
1/2" = 1'-0"



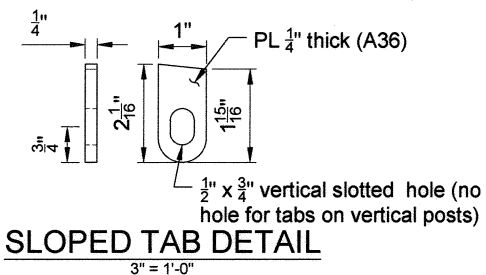
**SECTION B-B**  
1/2" = 1'-0"



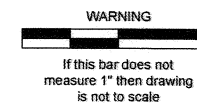
**SLOPED PEDESTRIAN APPROACH RAIL - ELEVATION**  
1/2" = 1'-0"

\*Field verify slope prior to fabrication.  
Adjust slope as necessary

Notes:  
Horizontal mesh elements shall line-up  
across all panels  
See "Pedestrian Approach Rail" this sheet  
for details not shown



**SLOPED TAB DETAIL**  
3" = 1'-0"



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**COUNTY COMMISSION**  
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CHAIRMAN  
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WILLIAM TUCKER

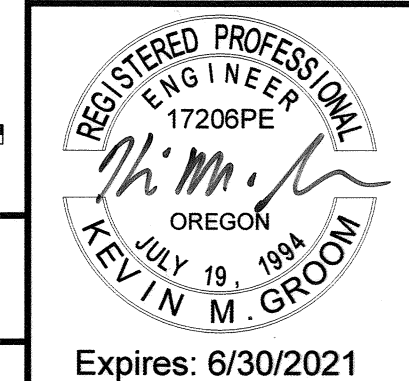
**ROADMASTER**  
WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
CHARLES R. KNOLL, P.E.

| DATE: | REVISION: | BY: | BRIDGE NO:                           | DATE:                 |
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|       |           |     | B1804                                |                       |
|       |           |     | T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
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|       |           |     | DRAFTED BY: K. Groom                 | REVIEWED BY: C. Knoll |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

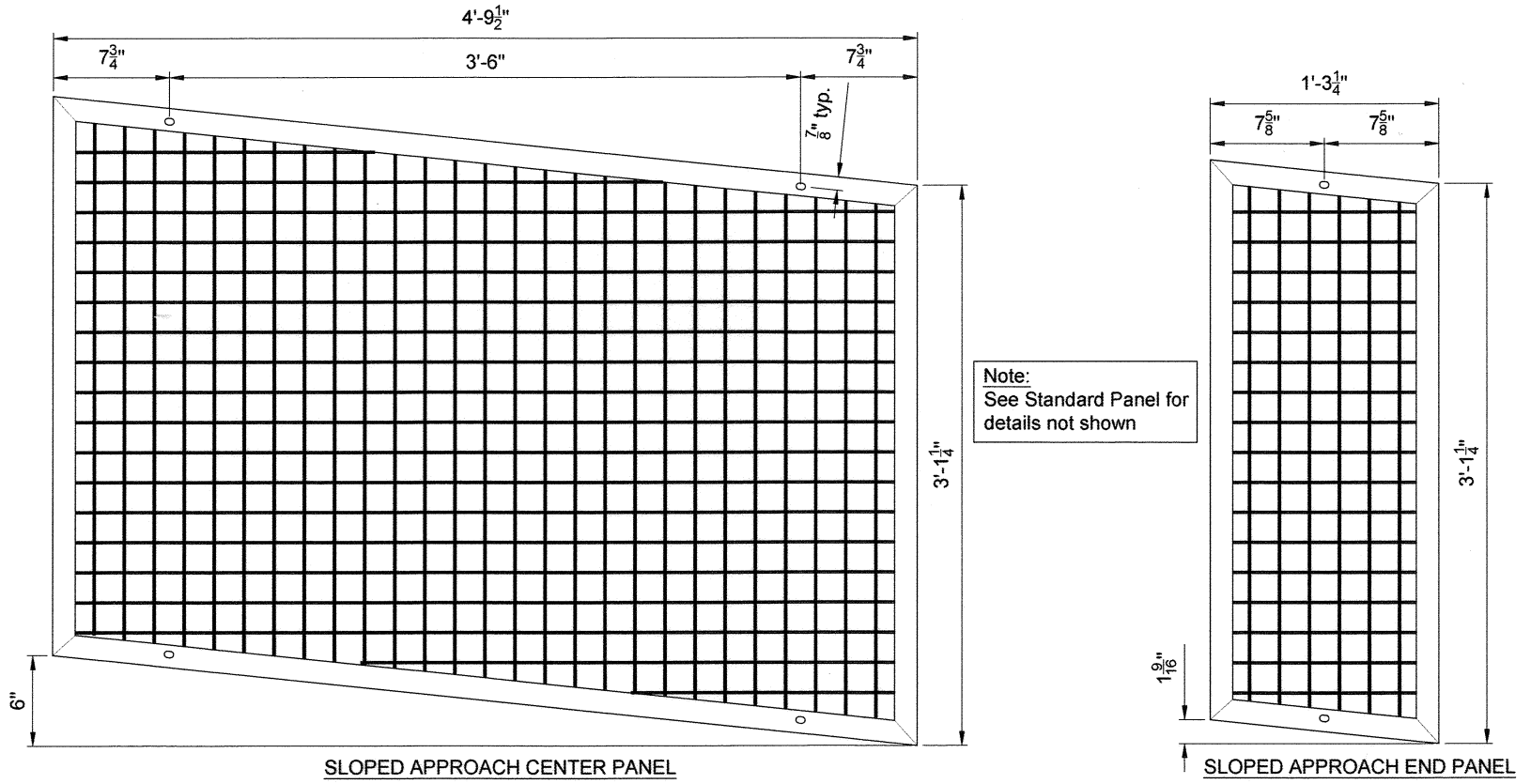
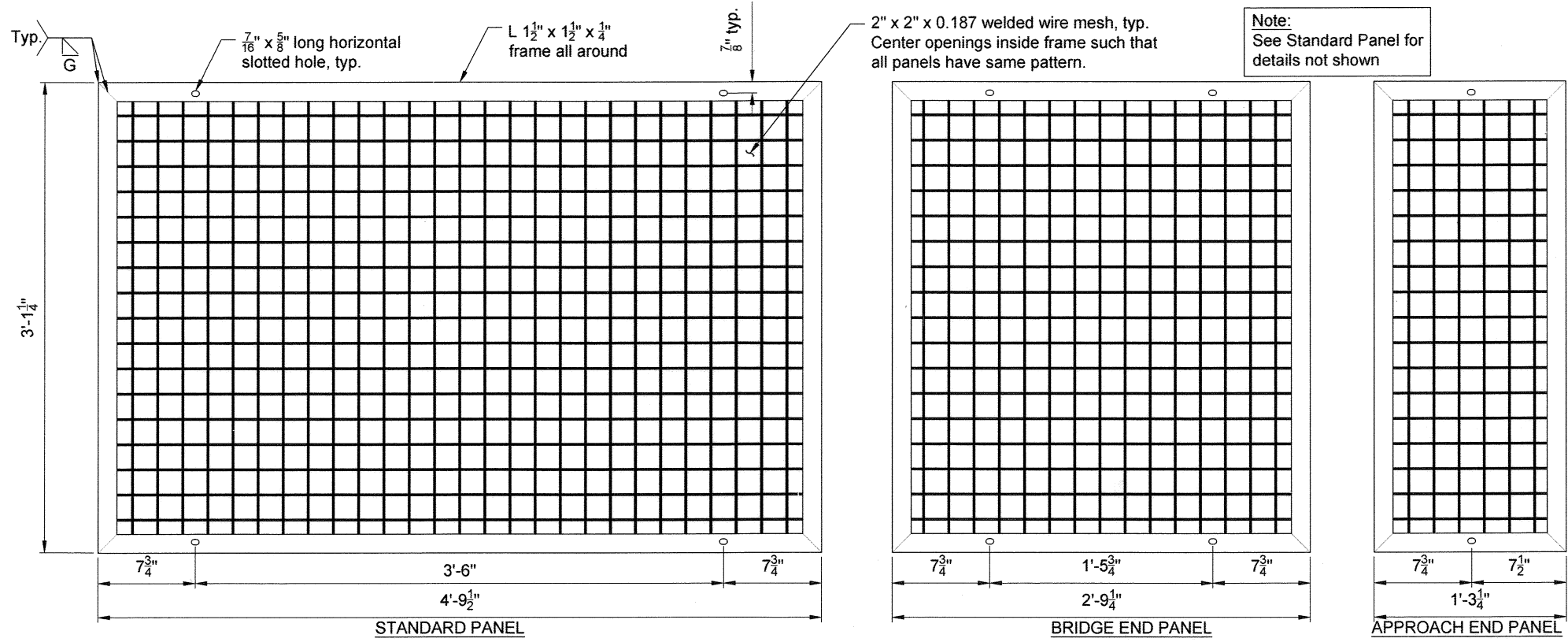
PEDESTRIAN RAIL  
APPROACH RAIL

SCALE: AS SHOWN SHEET PR-02

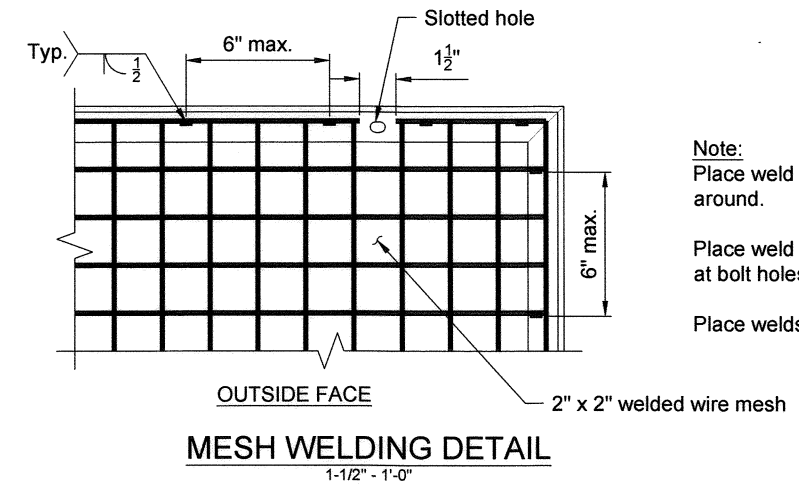


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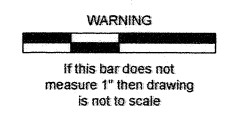
MESH PANEL DETAILS  
1" = 1'-0"



Note:  
Place weld a minimum of every 6" all around.

Place weld on each side of discontinuity at bolt holes.

Place welds as shown at frame corners



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|       |           |     | DRAFTED BY: K. Groom                 | REVIEWED BY: C. Knoll |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE

LINN COUNTY

PEDESTRIAN RAIL MESH PANELS

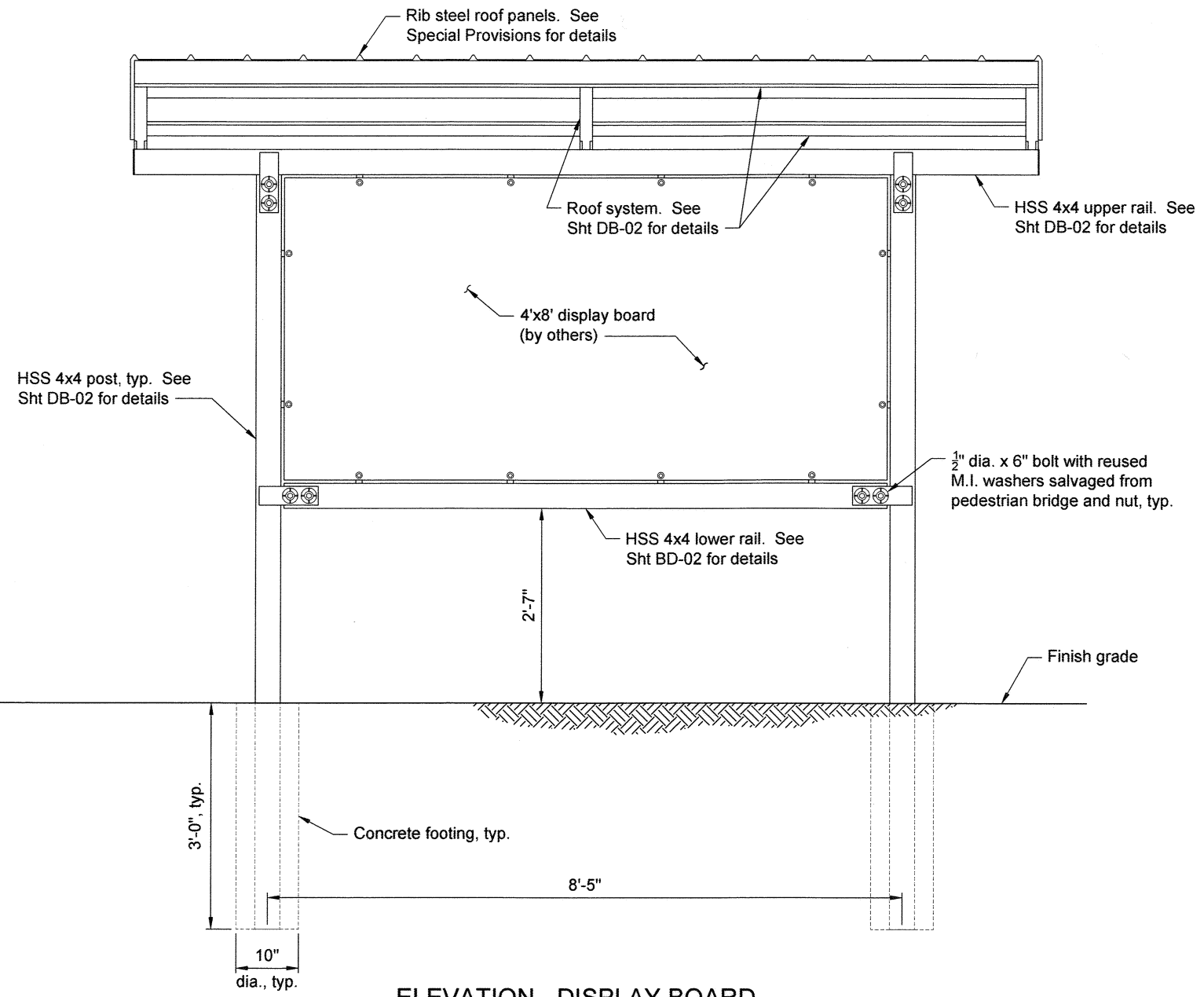
SCALE: AS SHOWN SHEET PR-03

REGISTERED PROFESSIONAL ENGINEER  
17206PE  
KEVIN M. GROOM  
JULY 19, 1994  
OREGON

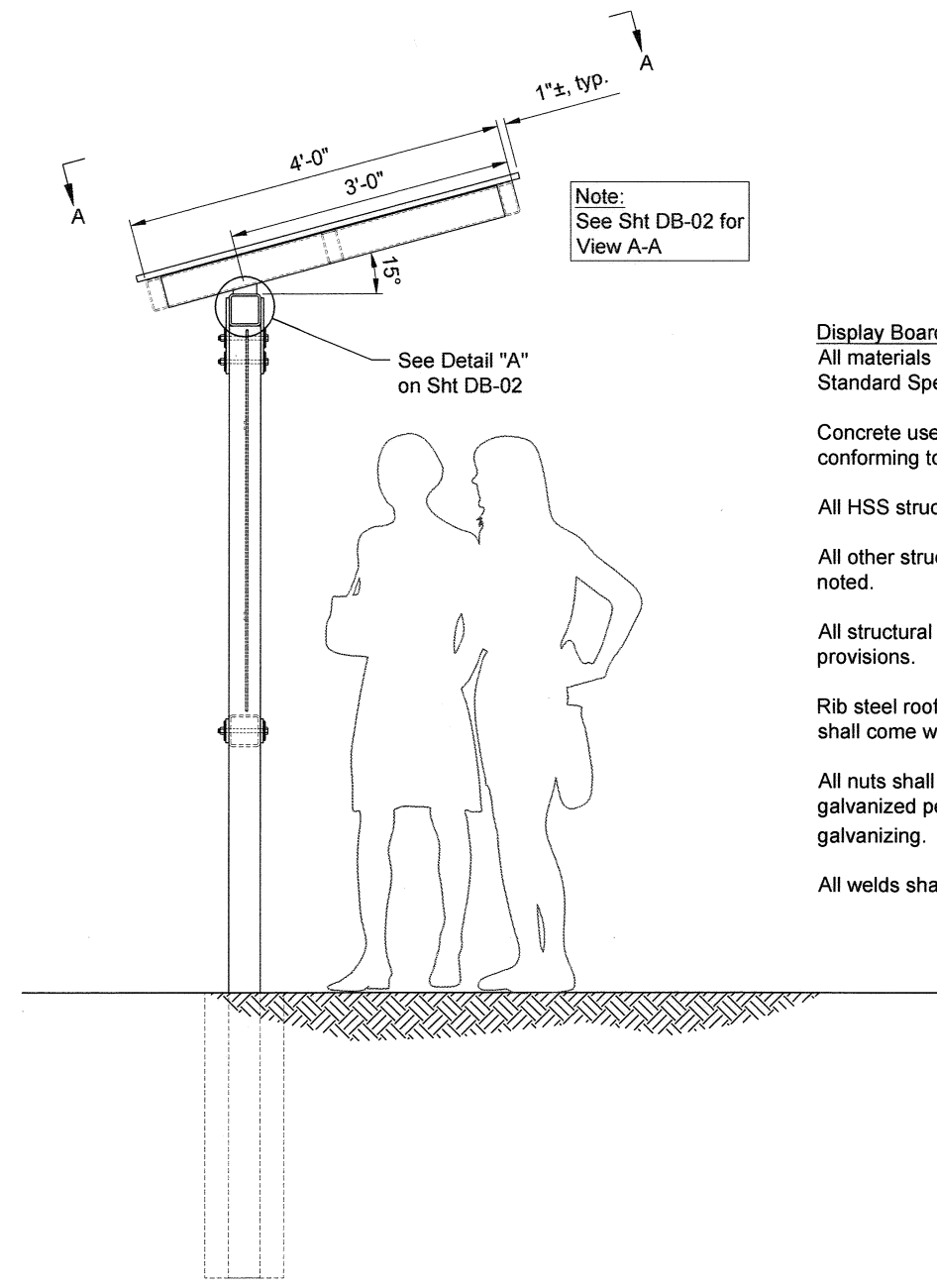
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**ELEVATION - DISPLAY BOARD**  
1/2" = 1'-0"



**SIDE VIEW**  
1/2" = 1'-0"

**Display Board General Notes:**  
 All materials and workmanship shall conform to the 2018 Oregon Standard Specifications for Construction and the Special Provisions.  
 Concrete used for footings shall be commercial grade concrete conforming to Section 00440 of the specifications.  
 All HSS structural steel shall conform to ASTM A500, Grade B.  
 All other structural steel shall conform to ASTM A36, unless otherwise noted.  
 All structural steel elements shall be powder coated per the special provisions.  
 Rib steel roofing panels shall be factory coated black on all sides, and shall come with a minimum 25 year manufacturer's warranty.  
 All nuts shall conform to ASTM A563. All new hardware shall be hot dip galvanized per ASTM A153. All threads shall be chased after galvanizing. Bolts shall not extend more than 1/2" past the nut.  
 All welds shall conform to AWS D1.1 using E70XX electrodes.

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



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 WAYNE MINK, P.E.  
**COUNTY ENGINEER**  
 CHARLES R. KNOLL, P.E.

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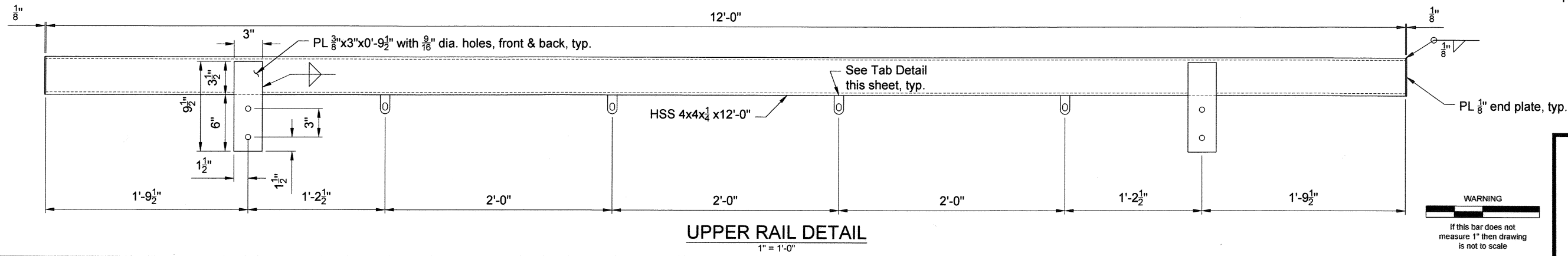
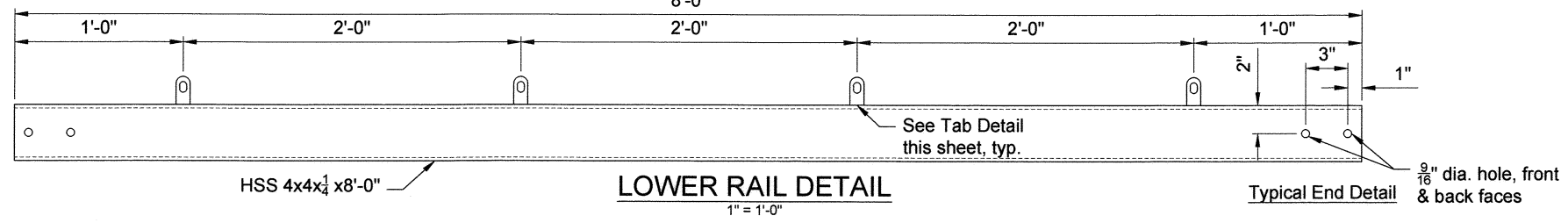
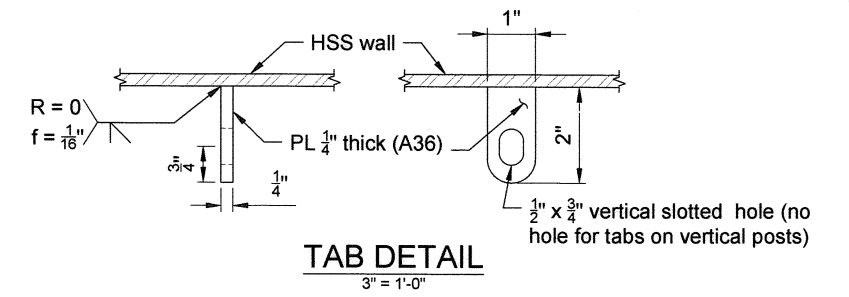
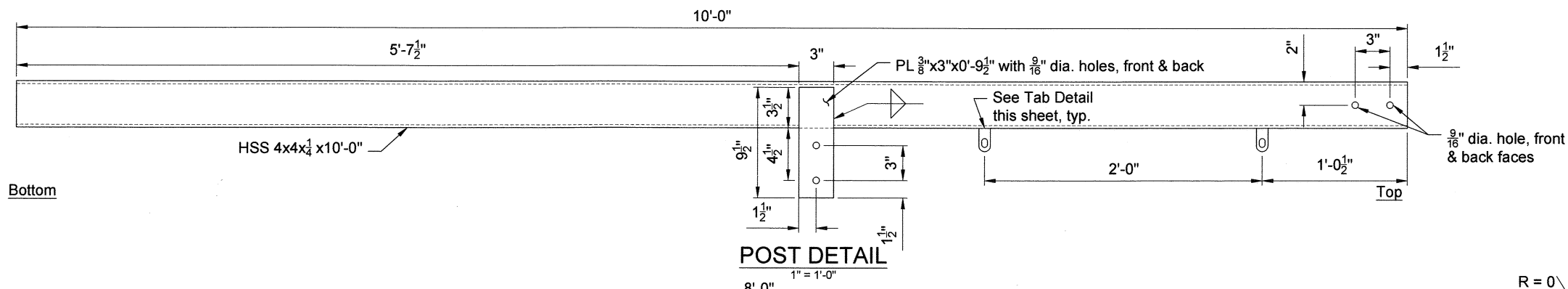
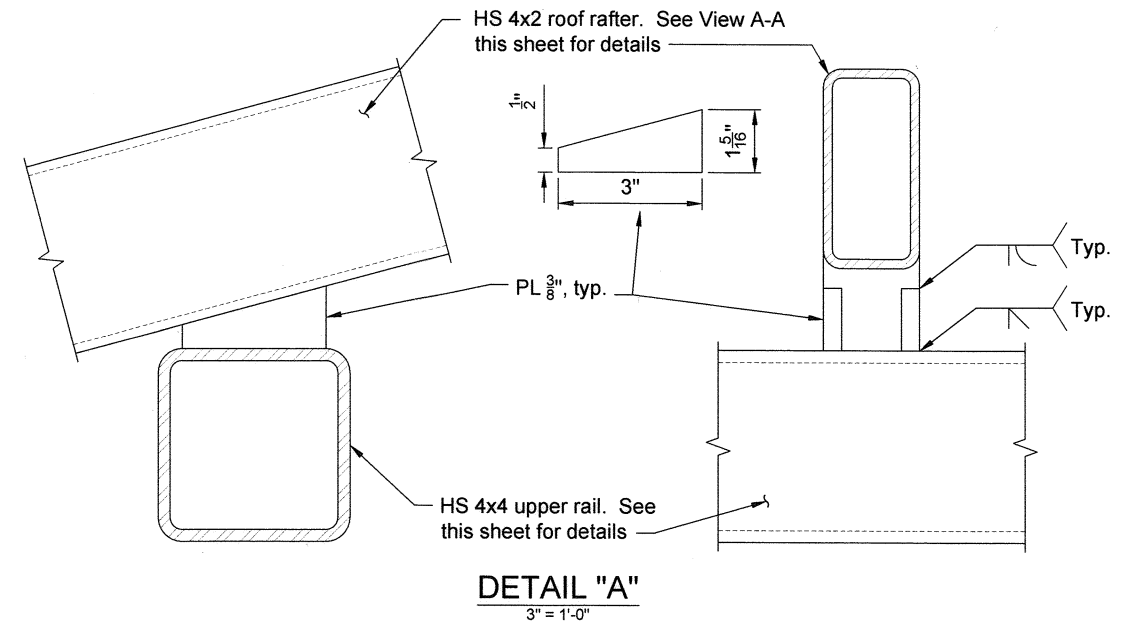
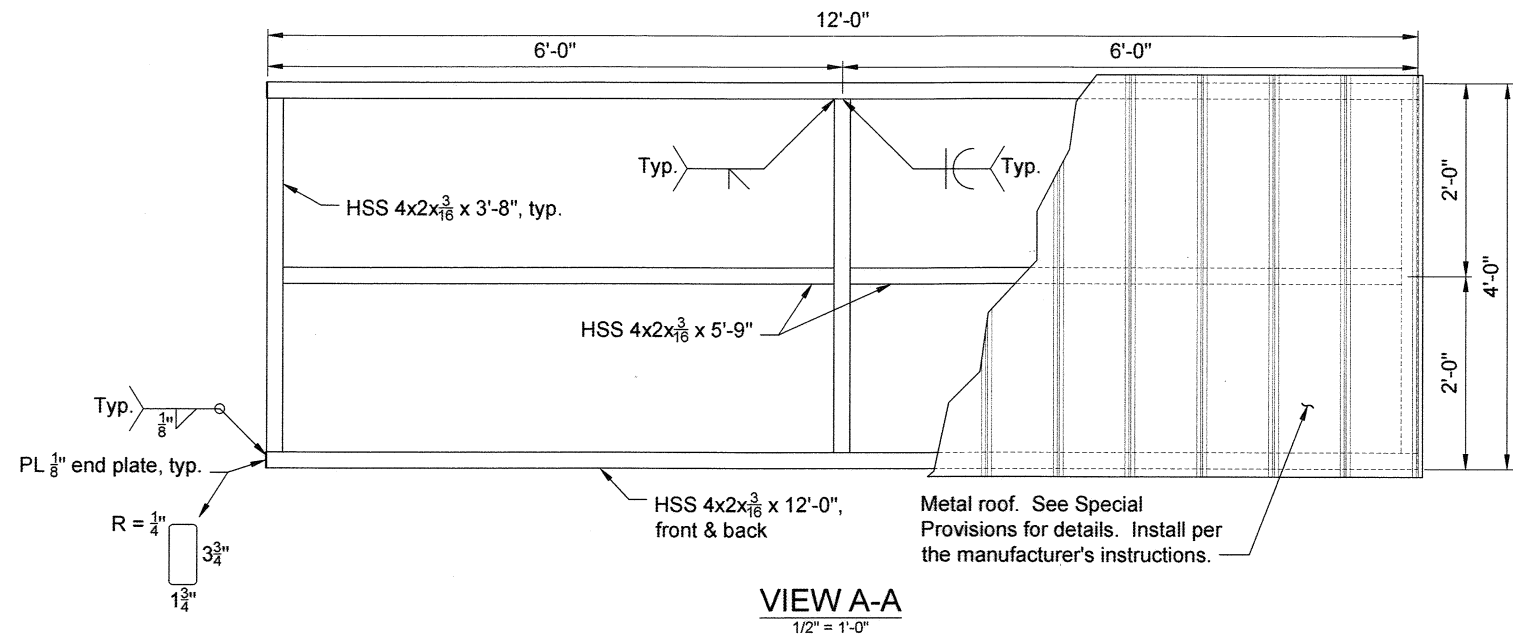
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|--------------|--------------------------------------|--------------|------------|
| BRIDGE NO:   | N/A                                  | DATE:        | 10/09/2020 |
| PROJECT NO:  | B1804                                |              |            |
| TRIS:        | T. 09 S., R. 03 E., SECTION 30, W.M. |              |            |
| DESIGNED BY: | K. Groom                             | CHECKED BY:  | A. Potts   |
| DRAFTED BY:  | K. Groom                             | REVIEWED BY: | C. Knoll   |

**NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE**  
 LINN COUNTY

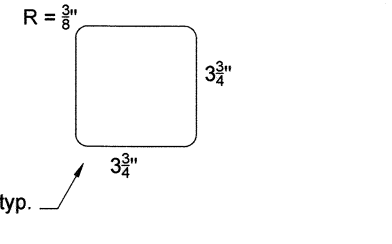
**DISPLAY BOARD ELEVATION**  
 SCALE: AS SHOWN SHEET DB-01

**REGISTERED PROFESSIONAL ENGINEER**  
 17206PE  
 JULY 19, 1994  
 KEVIN M. GROOM  
 Expires: 6/30/2021

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

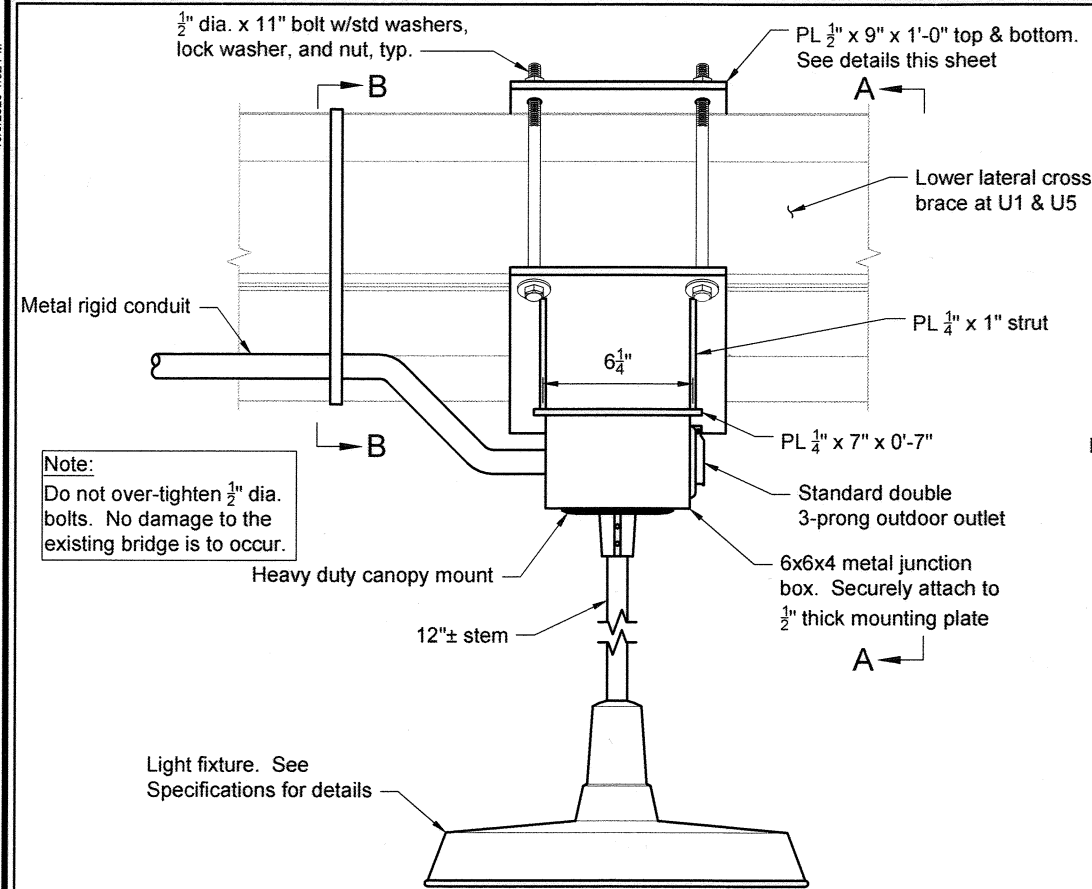


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|  | <b>LINN COUNTY ROAD DEPARTMENT</b><br>3010 FERRY STREET SW<br>ALBANY, OREGON 97322<br>PHONE: (541) 967-3919<br>FAX: (541) 924-0202<br>E-MAIL: Roads@co.linn.or.us | <b>COUNTY COMMISSION</b><br>ROGER NYQUIST<br>CHAIRMAN<br>JOHN LINDSEY<br>WILLIAM TUCKER | <b>ROADMASTER</b><br>WAYNE MINK, P.E.<br><b>COUNTY ENGINEER</b><br>CHARLES R. KNOLL, P.E. | DATE: _____<br>REVISION: _____<br>BY: _____ | BRIDGE NO: N/A<br>PROJECT NO: B1804<br>TRS: T. 09 S., R. 03 E., SECTION 30, W.M.<br>DESIGNED BY: K. Groom<br>DRAFTED BY: K. Groom | DATE: 10/09/2020<br>CHECKED BY: A. Potts<br>REVIEWED BY: C. Knoll | NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE<br>LINN COUNTY | DISPLAY BOARD DETAILS<br>SCALE: AS SHOWN<br>SHEET DB-02 |
|  |                                                                                                                                                                   |                                                                                         |                                                                                           |                                             |                                                                                                                                   |                                                                   |                                                                  |                                                         |

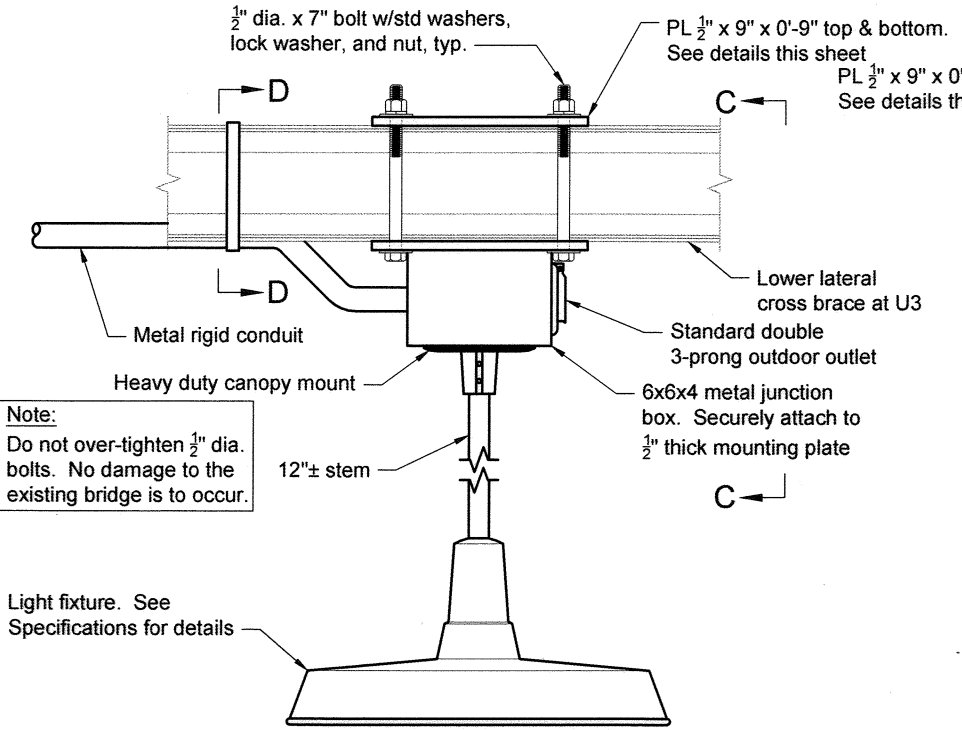
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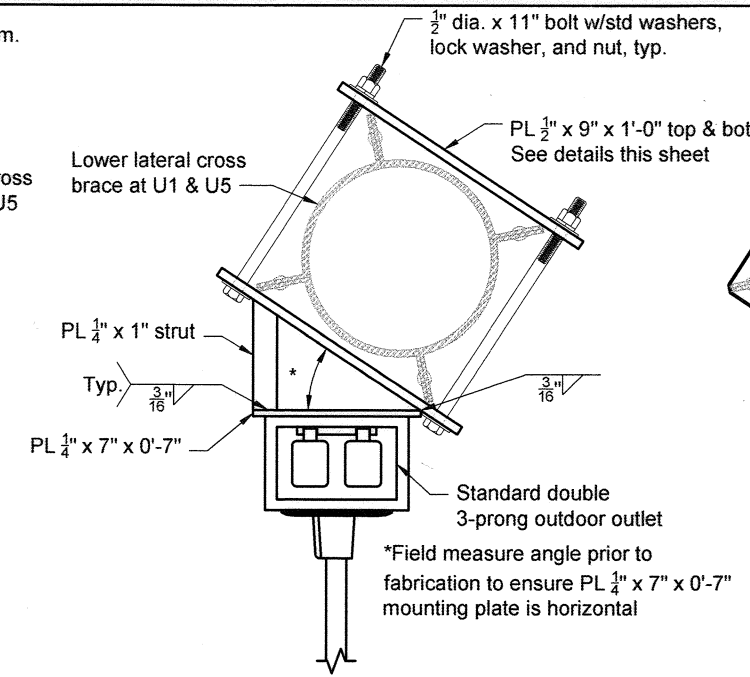
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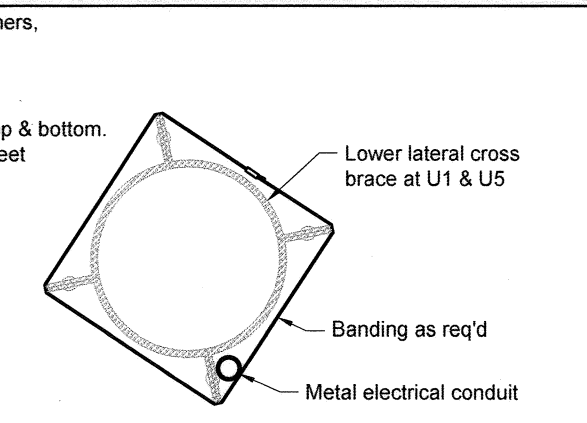
LIGHTING DETAIL @ U1 & U5  
NO SCALE



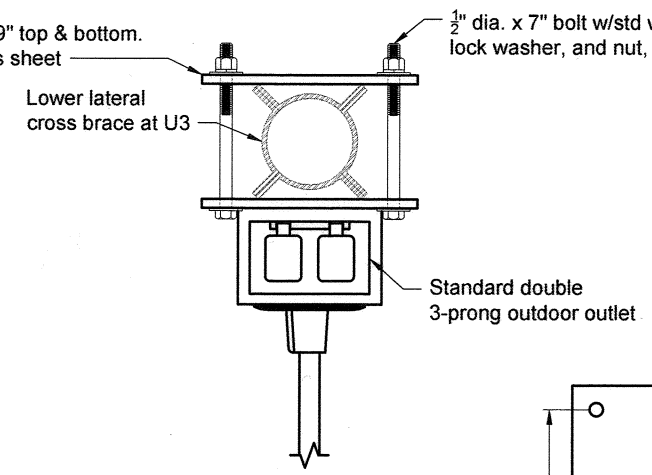
LIGHTING DETAIL @ U3  
NO SCALE



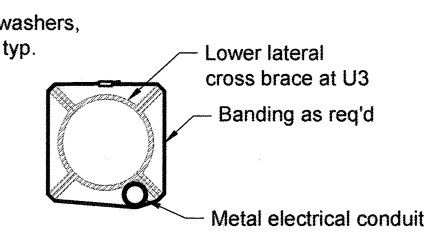
SECTION A-A  
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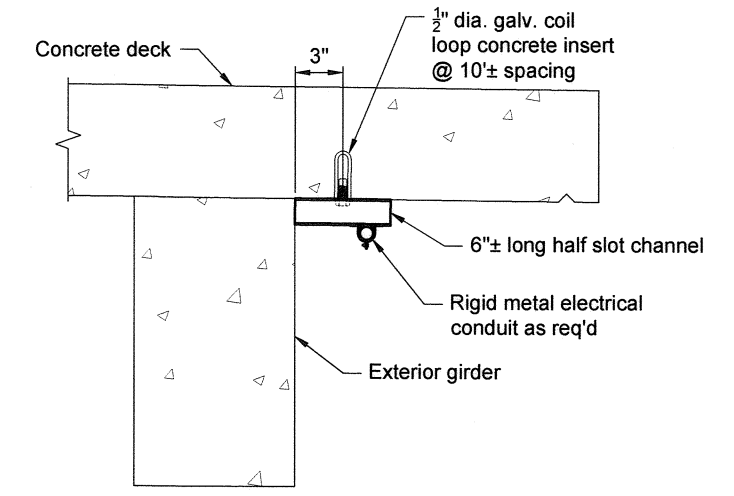
SECTION B-B  
NO SCALE  
U1 & U5 MOUNTING PLATE  
NO SCALE



SECTION C-C  
NO SCALE



SECTION D-D  
NO SCALE  
U3 MOUNTING PLATE  
NO SCALE



UNDER-DECK CONDUIT CONNECTION  
NO SCALE

**Lighting & Conduit Notes:**  
All lighting and electrical work shall meet the requirements of the Special Provisions.

All electrical work shall meet all local, state and federal requirements.

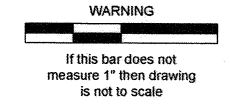
Lights and outlets detailed on this sheet shall be located at the bridge centerline at the lower lateral cross bracing at U1, U3 and U5. Lights and outlets at U1, U3 and U5 shall be controlled by a photocell photo control light sensor to come on automatically when dark.

Install standard two plug, 3 prong outlet with lockable cover on L5U5 vertical member. See Sht BR-04 for location.

No damage is to occur to the historic Phoenix Truss built up circular members. No holes are to be drilled, and no flanges are to be bent.

Small holes no bigger than 3/8 inch may be drilled in the vertical truss member at L5U5. All conduit attached to L5U5 shall be located at the outside face of the outside member, and not visible from the bridge deck.

All conduit, junction boxes, mounting hardware and other appurtenances above the bottom of the deck or visible from the deck shall be painted the same color as the truss as specified in the special provisions.



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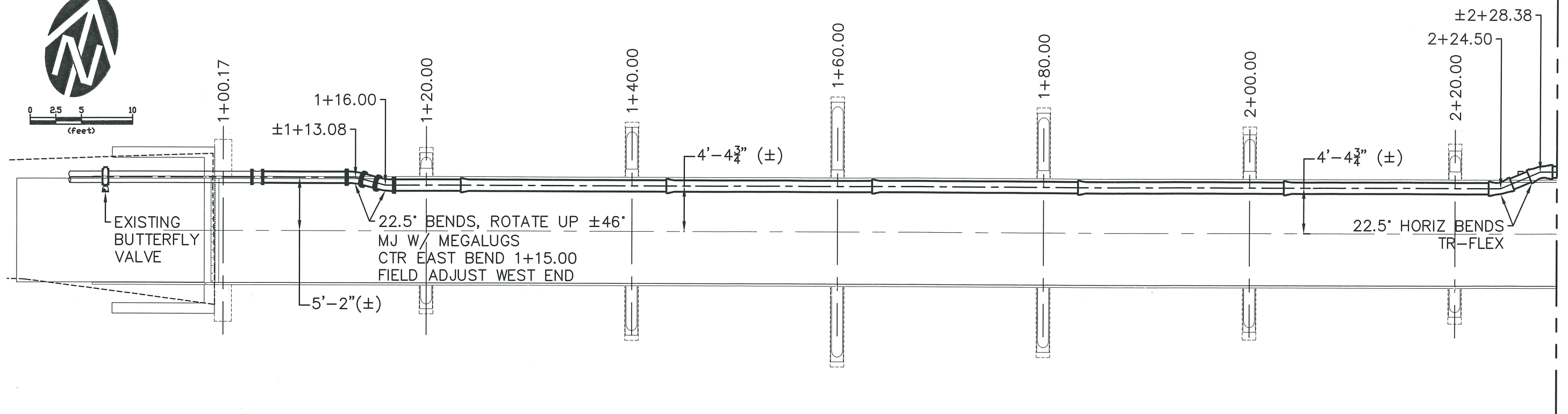
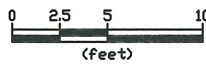
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| BRIDGE NO: N/A                            | DATE: 10/09/2020      |
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NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

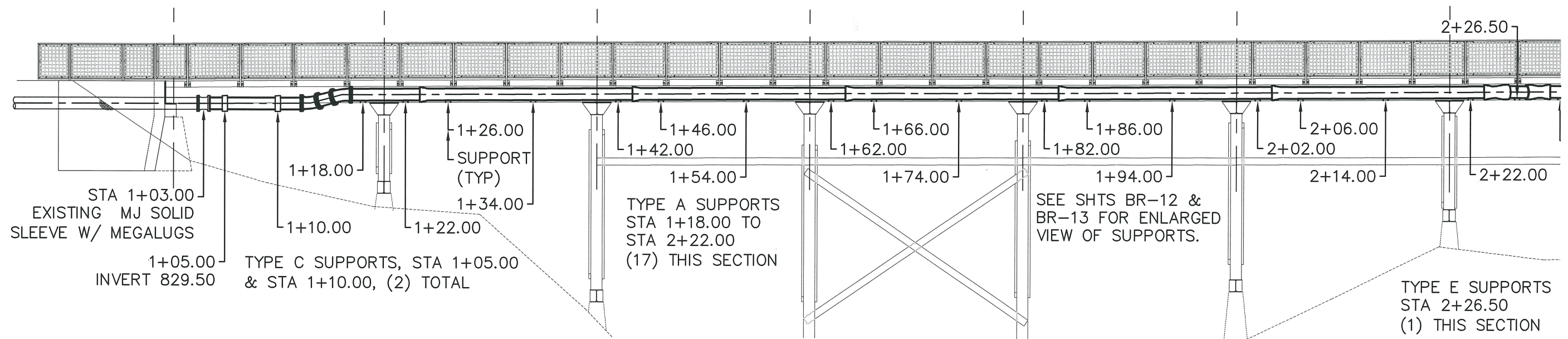
BRIDGE LIGHTING DETAILS  
SCALE: AS SHOWN  
SHEET BL-01

**REGISTERED PROFESSIONAL ENGINEER**  
17206PE  
*Kevin M. Groom*  
OREGON  
JULY 19, 1994  
KEY IN M. GROOM  
Expires: 6/30/2021

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MATCH LINE STA 2+30  
SEE SHEET WL-02 FOR CONTINUATION



STA 1+03.00  
EXISTING MJ SOLID  
SLEEVE W/ MEGALUGS  
1+05.00  
INVERT 829.50

TYPE C SUPPORTS, STA 1+05.00  
& STA 1+10.00, (2) TOTAL

TYPE A SUPPORTS  
STA 1+18.00 TO  
STA 2+22.00  
(17) THIS SECTION

SEE SHTS BR-12 &  
BR-13 FOR ENLARGED  
VIEW OF SUPPORTS.

TYPE E SUPPORTS  
STA 2+26.50  
(1) THIS SECTION



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**LINN COUNTY ROAD DEPARTMENT**  
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PHONE: (541) 967-3819  
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E-MAIL: Roads@co.linn.or.us

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

| DATE: | REVISION: | BY: |
|-------|-----------|-----|
|       |           |     |
|       |           |     |
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|                                           |                       |
|-------------------------------------------|-----------------------|
| BRIDGE NO: N/A                            | DATE: 10/09/2020      |
| PROJECT NO: B1804                         |                       |
| TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
| DESIGNED BY: R. Engel                     | CHECKED BY: R. Engel  |
| DRAFTED BY: R. Engel                      | REVIEWED BY: K. Groom |

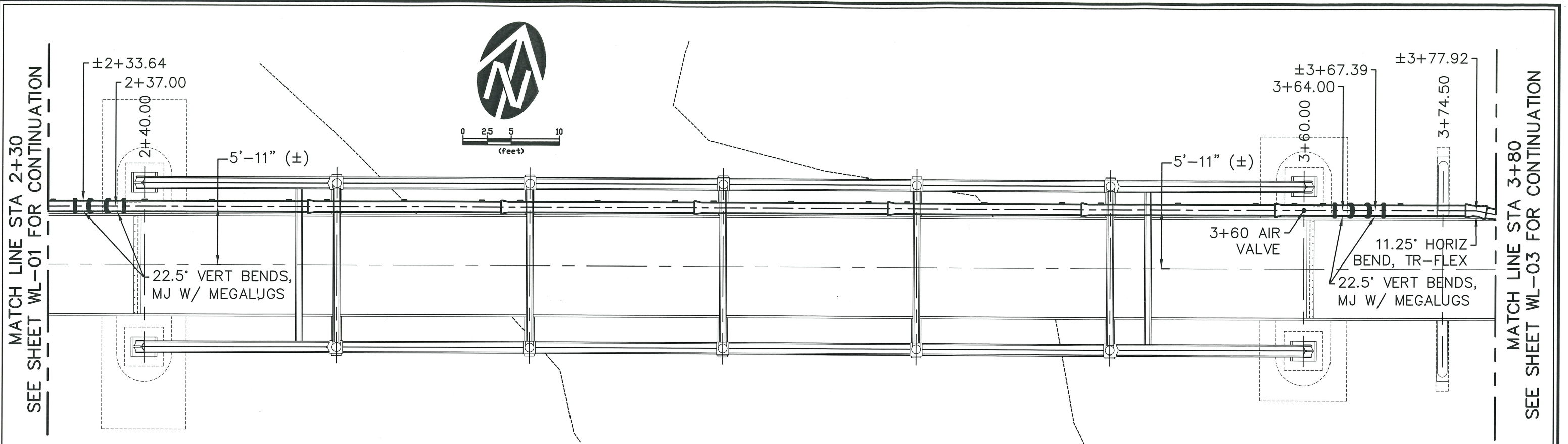
NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
LINN COUNTY

WATERLINE  
PLAN & PROFILE  
START TO STA 2+30  
SCALE: AS SHOWN SHEET WL-01

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

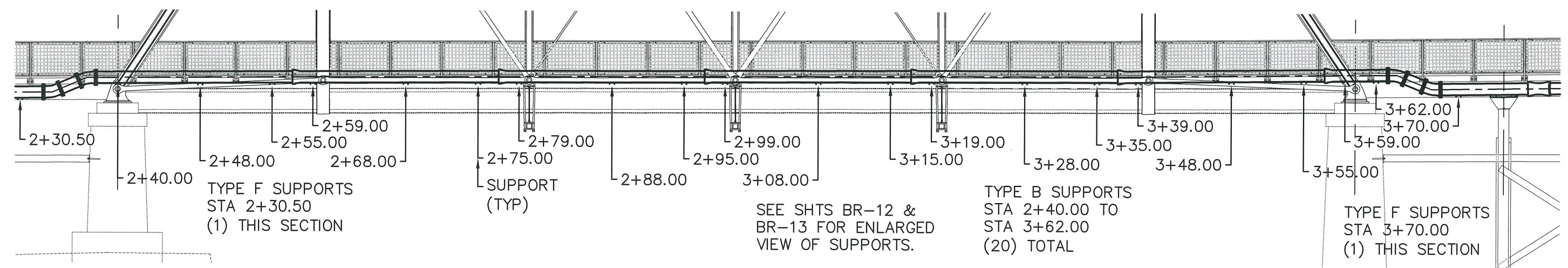






MATCH LINE STA 2+30  
SEE SHEET WL-01 FOR CONTINUATION

MATCH LINE STA 3+80  
SEE SHEET WL-03 FOR CONTINUATION



TYPE F SUPPORTS  
STA 2+30.50  
(1) THIS SECTION

SUPPORT  
(TYP)

SEE SHTS BR-12 &  
BR-13 FOR ENLARGED  
VIEW OF SUPPORTS.

TYPE B SUPPORTS  
STA 2+40.00 TO  
STA 3+62.00  
(20) TOTAL

TYPE F SUPPORTS  
STA 3+70.00  
(1) THIS SECTION

**WE**  
**WESTECH ENGINEERING, INC.**  
 CONSULTING ENGINEERS AND PLANNERS  
 3228.0000.0  
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| PROJECT NO: B1804                         |                       |
| TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
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| DRAFTED BY: R. Engel                      | REVIEWED BY: K. Groom |

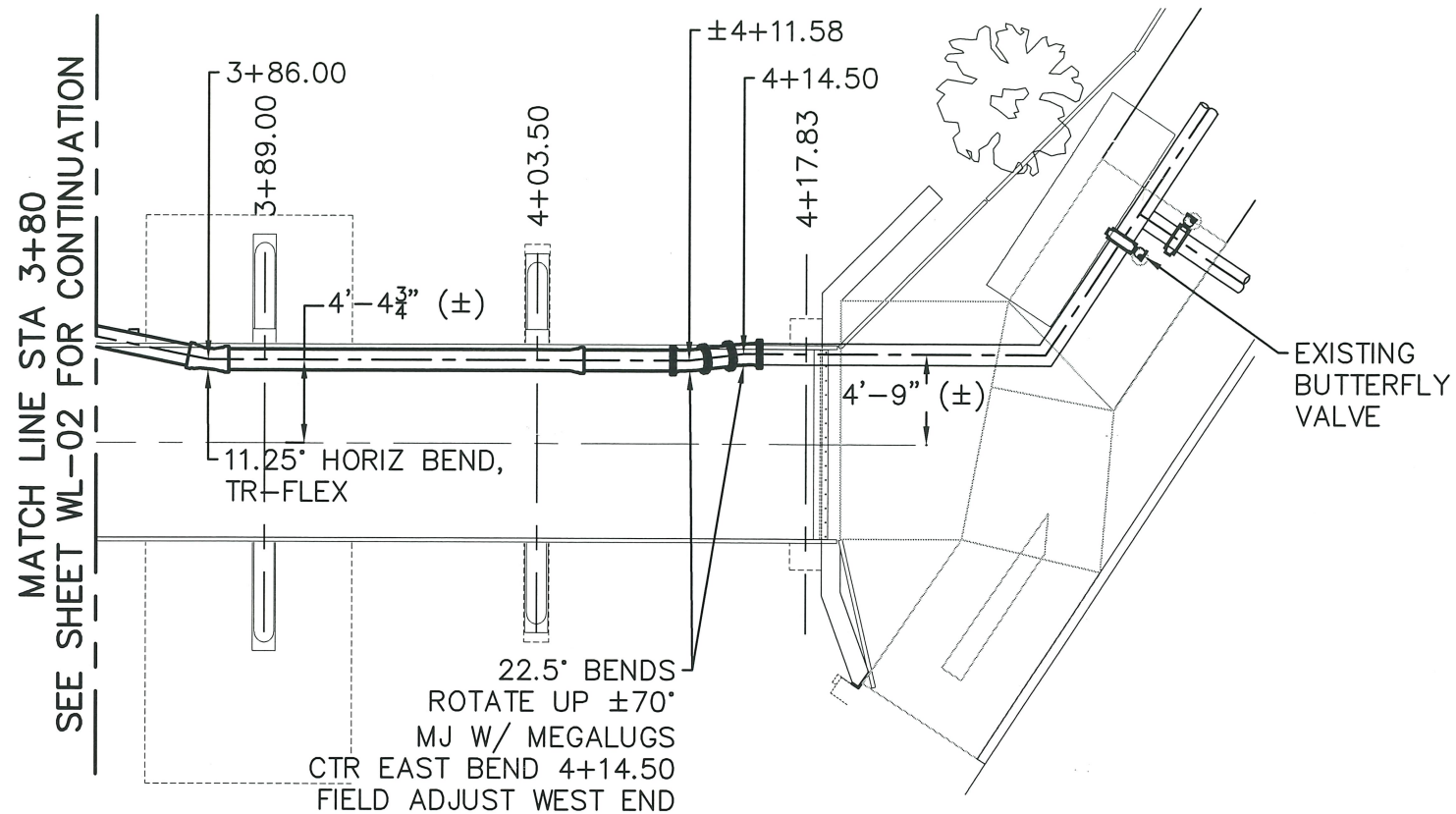
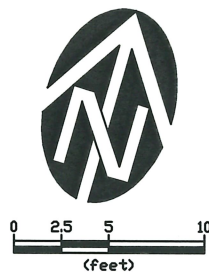
NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
 LINN COUNTY

WATERLINE  
 PLAN & PROFILE  
 STA 2+30 TO STA 3+80  
 SCALE: AS SHOWN SHEET WL-02

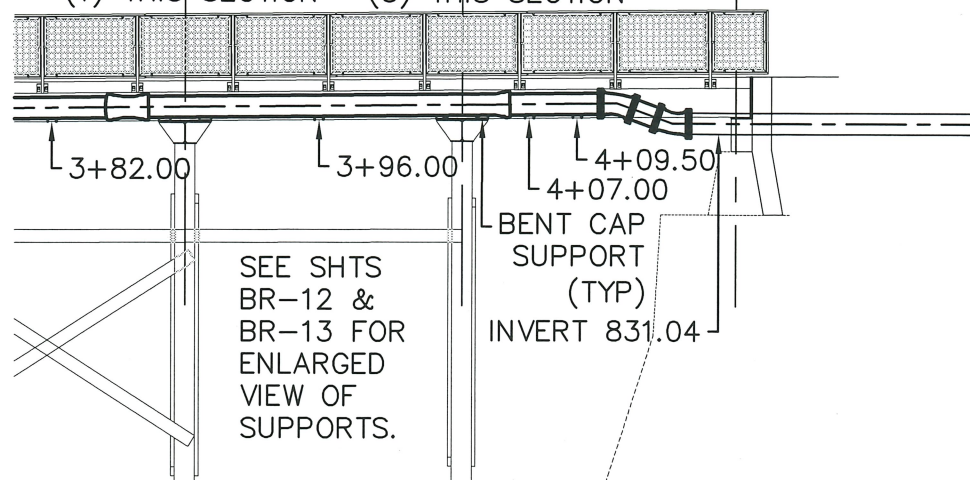
WARNING  
 If this bar does not measure 1" then drawing is not to scale

REGISTERED PROFESSIONAL ENGINEER  
 19176  
 OREGON  
 JULY 15, 1997  
 RAYMOND C. ENGEL  
 RENEWS: 12/31/2021





TYPE E SUPPORTS STA 3+82.00  
 (1) THIS SECTION  
 TYPE D SUPPORTS BENTS 10, 11, 12  
 (3) THIS SECTION



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

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

|       |           |     |                                           |                       |
|-------|-----------|-----|-------------------------------------------|-----------------------|
| DATE: | REVISION: | BY: | BRIDGE NO: N/A                            | DATE: 10/09/2020      |
|       |           |     | PROJECT NO: B1804                         |                       |
|       |           |     | TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
|       |           |     | DESIGNED BY: R. Engel                     | CHECKED BY: R. Engel  |
|       |           |     | DRAFTED BY: R. Engel                      | REVIEWED BY: K. Groom |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
 LINN COUNTY

WATERLINE PLAN & PROFILE  
 STA 3+80 TO END  
 SCALE: AS SHOWN SHEET WL-03

REGISTERED PROFESSIONAL ENGINEER  
 19176  
 OREGON  
 JULY 15, 1997  
 RAYMOND C. ENGEL  
 RENEWS: 12/31/2021



**GENERAL NOTES:**

1. A copy of final approved construction drawings and any required permits shall be kept on-site at all times, for review by inspectors upon request.
2. The Contractor shall perform all work necessary to complete the project in accordance with the approved construction drawings including such incidentals as may be necessary to meet applicable agency requirements and provide a completed project.
3. Any inspection by the City, County or other agencies shall not, in any way, relieve the Contractor from any obligation to perform the work in strict compliance with the contract documents, applicable codes, and agency requirements.
4. Contractor shall maintain one complete set of approved drawings on the construction site at all times whereon he will record all approved deviations in construction from the approved drawings, as well as the station locations and depths of all existing utilities encountered. These field record drawings shall be kept up to date at all times and shall be available for inspection by the City, County, or Owner's Representative upon request. Failure to conform to this requirement may result in delay in payment and/or final acceptance of the project.
5. Upon completion of construction of all new facilities, Contractor shall submit a clean set of field record drawings containing all as-built information to the Engineer. All information shown on the Contractor's field record drawings shall be subject to verification. If significant errors or deviations are noted, an as-built survey prepared and stamped by a registered professional Land Surveyor shall be completed at the Contractor's expense.

**TESTING AND INSPECTION:**

6. The Contractor shall be responsible to ensure that all required or necessary inspections are completed by authorized inspectors prior to proceeding with subsequent work which covers or that is dependent on the work to be inspected. Failure to obtain necessary inspection(s) and approval(s) shall result in the Contractor being fully responsible for all problems and/or corrective measures arising from uninspected work.
7. Unless otherwise specified, the "Required Testing and Frequency" table on Sheet WL-05 outlines the minimum testing schedule for the project. This testing schedule is not complete, and does not relieve the Contractor of the responsibility of obtaining all necessary inspections or observations for all work performed, regardless of who is responsible for payment. Cost for retesting shall be borne by the Contractor.


**EXISTING UTILITIES & FACILITIES:**

8. The location and descriptions of existing utilities shown on the drawings are compiled from available records and/or field surveys. The Engineer or utility companies do not guarantee the accuracy or the completeness of such records. Contractor shall field verify locations and sizes of all existing utilities prior to construction.

9. The Contractor shall be responsible for managing construction activities to ensure that public streets and right-of-ways are kept clean of mud, dust or debris. Dust abatement shall be maintained by adequate watering of the site by the Contractor.

**WATER SYSTEM:**

10. Contractor shall provide all necessary equipment and materials to install temporary chlorination & sample taps, restrained caps/plugs and blowoffs as required on new waterlines for flushing, pressure testing, chlorination and bacteriological testing (configuration to be acceptable to the City, County, or other agency with jurisdiction). Chlorination and sample taps shall be located within 18-inches of the end of each mainline segment to be chlorinated & tested, and configured to ensure that all portions of the pipelines are adequately disinfected.
11. Pressure Testing. All waterlines and appurtenances shall be pressure tested for leakage. All testing shall conform to requirements as outlined in the specifications, City standards and/or testing forms. Prior to the start of each pressure test, the position of all mainline valves in the test segment shall be verified.
12. Cleaning & Flushing. After the pressure test and prior to disinfecting, the water lines shall be thoroughly flushed through hydrants, blow offs or by other approved means.
13. Disinfection & Bacteriological Testing. All water mains and service lines shall be chlorine disinfected per local jurisdiction requirements, AWWA C-651 or OAR 333-061 (25 mg/L minimum chlorine solution, 24 hours contact time), whichever is more stringent. Unless otherwise approved by the City, a City representative shall witness the application of the chlorine solution and the chlorine testing at the end of the 24 hour contact period. After the 24 hour chlorine contact period, the free chlorine concentration shall be checked, and if it is found to be 10 mg/L or more, the chlorine solution shall be drained (otherwise the line shall be rechlorinated), the waterline flushed with potable water, and a minimum of two consecutive samples taken at least 24 hours apart shall be collected from the waterline for microbiological analysis (ie. one sample immediately after flushing, and another sample 24 hours later). Contractor to pay for laboratory analysis of water samples taken under the supervision of the City. If the results of both analyses indicate that the water is free of coliform organisms, the waterline may be placed in service. Should the initial treatment prove ineffective, the flushing & chlorination shall be repeated until confirmed tests show acceptable results.
14. Disinfection of Connections. For connections which cannot be disinfected with the waterline mainlines as noted above, all fittings, valves and appurtenances, including tool surfaces which will come in contact with potable water, shall be thoroughly cleaned by washing with potable water and then swabbed or sprayed with a one percent (1%) hypochlorite solution (10,000 mg/L) in accordance with the requirements of AWWA C-651 and OAR 333-061.
15. Capping of Chlorination Taps, Pressure Test Taps, Temporary Sample Taps, etc. Unless otherwise approved or required by the City, all extra pipe and fittings attached to chlorination, pressure test or temporary sampling taps shall be removed and the corporation stop capped at the mainline tap or saddle after the new waterline is placed in service (to avoid depressurizing the mainline after disinfection). Wrap each capped corporation stop in plastic prior to backfilling. The location of all such capped corporation stops shall be shown on the Contractor's record drawings.



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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

| DATE: | REVISION: | BY: | BRIDGE NO:                                | DATE:                 |
|-------|-----------|-----|-------------------------------------------|-----------------------|
|       |           |     | NIA                                       | 10/09/2020            |
|       |           |     | PROJECT NO: B1804                         |                       |
|       |           |     | TRS: T. 09 S., R. 03 E., SECTION 30, W.M. |                       |
|       |           |     | DESIGNED BY: R. Engel                     | CHECKED BY: R. Engel  |
|       |           |     | DRAFTED BY: R. Engel                      | REVIEWED BY: K. Groom |

|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE | WATERLINE STANDARD WESTECH NOTES |
| LINN COUNTY                                       | SCALE: AS SHOWN                  |
|                                                   | SHEET WL-04                      |



REGISTERED PROFESSIONAL ENGINEER  
19176  
OREGON  
JULY 15, 1997  
RAYMOND C. ENGEL  
RENEWS: 12/31/2021



**General Waterline Notes**

1. The existing waterline is TR-Flex by US Pipe.
2. All existing pipe may be re-used as long as it is removed without damage and carefully stored and protected until it is re-installed.
3. Bidders are responsible for evaluating the existing pipe to determine the amount of pipe that can be re-used, and what additional materials will be needed to complete the reinstallation.
4. The existing 45° fittings may not be re-used. New fittings shall be 11.25° and 22.5° bends as called out on the waterline drawings.
5. All existing gaskets shall be replaced with new gaskets. Only new gaskets shall be used for both new and re-used pipe and all new fittings.
6. See Specification 01140 for additional information.

**Waterline Removal Notes**

1. Close the 12" Butterfly valves at each end of the bridge.
2. Loosen the solid sleeve at the west end of the bridge to verify that the valves are properly closed.
3. Drain the existing waterline.
4. Remove the existing waterline following TR-Flex manufacturer's recommendations. The Contractor is responsible for protecting the pipe from damage during removal and storage.
5. Store and protect the existing waterline until it is re-installed.
6. Conduct a pressure test of the existing pipe and valve at the east (1st Street) end. After installation across the bridge, but prior to final connection at the west end, a pressure test will be required from the 1st Street valve to the MJ solid sleeve at the west abutment. Notify the engineer if the pressure test fails.
7. Install restrained MJ caps at the exposed pipe ends on both sides of the river.

**Waterline Installation Notes**

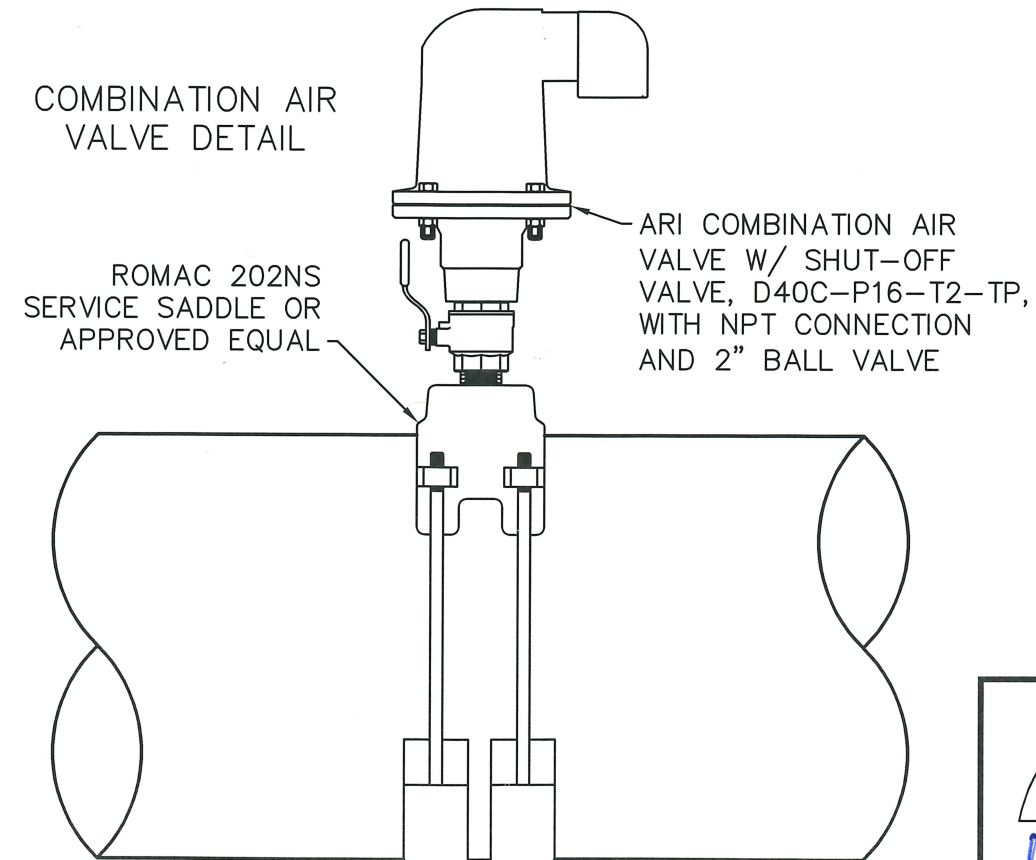
1. Follow manufacturer's recommendations for all TR-Flex installation procedures.
2. The waterline shall be installed from the east (1st Street) abutment, continuing west to the west abutment.
3. Ensure all TR-Flex joints are fully extended after each joint is assembled and before the next joint connection is made. Failure to perform this step may result in pipe deflections when the water pressure is restored. If pipe deflections occur after the water pressure is restored the Owner may require the Contractor to disassemble the pipe as necessary to remove the pipe deflections.
4. Provide a temporary chlorination tap on the existing pipe at the east abutment.
5. Before making the final connection at the west abutment install a temporary 4-inch blow-off for flushing.
6. Conduct a pressure test on the line from 1st Street to the west abutment.
7. After passing the pressure test, chlorinate the line from the east abutment to the west abutment.
8. After passing the bacteriological testing drain the chlorinated water from the waterline. The chlorinated water shall be dechlorinated and disposed in accordance with all regulatory requirements.
9. Complete the final connection at the west abutment using the MJ solid sleeve with mega-lugs.
10. Fill the waterline from the west end. Fill at a suitable rate that allows the combination air valve the chance to vent the air in the line as it fills.
11. Open the 1st Street valve to fully return the waterline to service.

| REQUIRED TESTING AND FREQUENCY TABLE                                          |   | Party Responsible for payment |                     |
|-------------------------------------------------------------------------------|---|-------------------------------|---------------------|
|                                                                               |   | Contractor                    | Others (see note 1) |
| Water                                                                         |   |                               |                     |
| Pressure Test (to be witnessed by Owner's Representative or approving agency) | ✓ | See note 3                    |                     |
| Bacterial Water Test Per Oregon Health Division                               | ✓ | See note 2                    |                     |
| Chlorine Residual Test Per City Requirements                                  | ✓ |                               |                     |

Note 1: "Others" refers to Owner's authorized Representative or Approving Agency as applicable. Contractor responsible for scheduling testing. All testing must be completed prior to performing subsequent work.

Note 2: Testing must be performed by an approved independent testing laboratory.

Note 3: To be witnessed by the Owner's Representative or approving agency. The Contractor shall perform pretests prior to scheduling witnessed waterline or sanitary sewer pressure tests, or pipeline mandrel test.



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|       |           |     | DESIGNED BY: R. Engel                     | CHECKED BY: R. Engel  |
|       |           |     | DRAFTED BY: R. Engel                      | REVIEWED BY: K. Groom |

NORTH SANTIAM RIVER (MILL CITY) PEDESTRIAN BRIDGE  
 LINN COUNTY  
 WATERLINE INSTALLATION NOTES & AIR VALVE DETAIL  
 SCALE: AS SHOWN SHEET WL-05

