



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0016

Janet T. Mills  
GOVERNOR

Bruce A. Van Note  
COMMISSIONER

September 28, 2021  
Subject: Station 46 Bridge Replacement &  
Pleasant Cove Bridge Replacement  
State WINs: 023929.00 & 023929.01  
Location: **Woolwich**  
**Amendment No. 1**

Dear Sir/Ms.:

Please make the following changes to the Bid Documents:

In the Bid Book:

**REMOVE** pages 17-28, Proposed Schedule of Items, 12 pages, dated 8/26/21, and **REPLACE** with the attached, revised Proposed Schedule of Items, 12 pages, dated 9/27/21.

**REMOVE** page 149, SPECIAL PROVISION – SECTION 535 - PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE – (Stainless Steel Strand), 1 page, dated August 20, 2021, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 535 - PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE – (Stainless Steel Strand), 1 page, dated September 10, 2021.

**REMOVE** pages 336-340, WIN 23929.00 ENVIRONMENTAL PACKAGE, 5 pages, dated 8/25/21, and **REPLACE** with the attached, revised WIN 23929.00 ENVIRONMENTAL PACKAGE, 8 pages, dated 9/10/21.

**REMOVE** pages 341-350, WIN 23929.01 ENVIRONMENTAL PACKAGE, 10 pages, dated 8/25/21, and **REPLACE** with the attached, revised WIN 23929.01 ENVIRONMENTAL PACKAGE, 12 pages, dated 9/10/21.

**ADD** the attached Conceptual ACOE Impact Plan, 1 page, dated 9-15-21.

In the Plan Set:

**REMOVE** SHEET NUMBER 2 OF 183, “ESTIMATED QUANTITIES” and **REPLACE** with the attached, revised SHEET NUMBER 2 OF 183, “ESTIMATED QUANTITIES”.

**REMOVE** SHEET NUMBER 123 OF 183, “PIER NOTES” and **REPLACE** with the attached, revised SHEET NUMBER 123 OF 183, “PIER NOTES”.

**REMOVE** SHEET NUMBER 125 OF 183, “PIER NO. 1 FOUNDATION REINF. PLAN” and **REPLACE** with the attached, revised SHEET NUMBER 125 OF 183, “PIER NO. 1 FOUNDATION REINF. PLAN”.

**REMOVE** SHEET NUMBER 129 OF 183, “PIER NO. 2 FOUNDATION REINF. PLAN” and **REPLACE** with the attached, revised SHEET NUMBER 129 OF 183, “PIER NO. 2 FOUNDATION REINF. PLAN”.

**REMOVE SHEET NUMBER 132 OF 183, "PIER NO. 3 SEAL AND FOOTING PLAN" and REPLACE** with the attached, revised SHEET NUMBER 132 OF 183, "PIER NO. 3 SEAL AND FOOTING PLAN".

**REMOVE SHEET NUMBER 133 OF 183, "PIER NO. 3 FOUNDATION REINF. PLAN" and REPLACE** with the attached, revised SHEET NUMBER 133 OF 183, "PIER NO. 3 FOUNDATION REINF. PLAN".

**REMOVE SHEET NUMBER 134 OF 183, "PIER NO. 3 PLAN AND ELEVATION" and REPLACE** with the attached, revised SHEET NUMBER 134 OF 183, "PIER NO. 3 PLAN AND ELEVATION".

**REMOVE SHEET NUMBER 135 OF 183, "PIER NO. 3 REINFORCING" and REPLACE** with the attached, revised SHEET NUMBER 135 OF 183, "PIER NO. 3 REINFORCING".

**REMOVE SHEET NUMBER 137 OF 183, "RETAINING WALL DETAILS" and REPLACE** with the attached, revised SHEET NUMBER 137 OF 183, "RETAINING WALL DETAILS".

**REMOVE SHEET NUMBER 164 OF 183, "REINFORCING STEEL SCHEDULE II" and REPLACE** with the attached, revised SHEET NUMBER 164 OF 183, "REINFORCING STEEL SCHEDULE II".

The following questions have been received:

**Question:** Highway Wage Determination #ME20200048 has been included in the Bid Book. Please confirm this is the correct wage determination and the Heavy Wage Determination #ME20200032 shouldn't be used for comparing to the State of Maine 2021 Fair Minimum Wage Rates.

**Response:** Highway wage determination #ME20200048 is correct as shown in the bid book.

**Question:** MaineDOT Environmental Summary Sheets state that the permit is pending for the U.S. Army Corps of Engineers (ACOE): Section 404 of the Clean Water Act. When will this permit be available?

**Response:** Please see the revised environmental packages dated 9/10/21, for all environmental special provisions. ACOE permit is still pending but is anticipated in advance of 10/6/21.

**Question:** Are there environmental limitations on the number of piers allowed for the temporary detour at the Station 46 bridge?

**Response:** No, there are no limitations to the number of piers allowed for the Special Detour(s) providing all work stays within the areas of temporary impacts defined for the project.

**Question:** Per MaineDOT Environmental Summary Sheets please provide Special Provisions 105-Environmental Requirements and Special Provisions 203-Dredge Material as noted.

**Response:** Please see the revised environmental packages dated 9/10/21, for all environmental special provisions.

**Question:** Can a draft copy of the Protection of Railroad Traffic and Structures be provided? If not, what is the anticipated time frame for it to be provided?

**Response:** No draft of the PRTS is available, as coordination with the Railroad is still ongoing. MaineDOT anticipates the PRTS in advance of the 10/6/21 opening. Vertical clearance minimum is 22'- 2" and horizontal clearances are 25'- 0" from CL of track in each direction.

**Question:** On Contract Plan Sheet 178 Temp. Const. Limit lines end at Station 82+41 W and 85+21 E. Please provide temporary construction limits East and West of baseline going up station.

**Response:** Temporary construction limits are correct as shown on plan sheets 177-180. Temporary construction limits at 85+21 Right connect into the existing ROW which then widens out to follow the old route 1 roadway as you move up station. Temporary construction limits at Sta. 82+41 left approximately match into the offset of the existing ROW as you move up station.

**Question:** Please provide information on the allowable temporary environmental impacts to the west of the New/Existing Station 46 Bridge that will be allowed for demolition and construction of the permanent bridge.

**Response:** Please see the attached schematic titled "Conceptual ACOE Impact Plan & defined in water work limits\_9/27/21" showing the temporary impact areas anticipated for access to Station 46 Bridge. The ACOE permit is anticipated by 10/6/21, at which point more clarification to these areas will be able to be provided.

**Question:** Special Detour Special Provision Section 510 has multiple references to a Special Provision 104. Although there are some Special Provision 104 sections included in the Bid Book none seem to be related to the detour.

**Response:** The 510 special provision (SP) references the 104 SP for Utilities. This 104 SP has references to the pending PRTS and railroad agreement for railroad clearances required for both the permanent and temporary structures over the railroad. These clearances are anticipated to be a minimum vertical clearance of 22'- 2" and a minimum horizontal clearance of 25'- 0" from the CL of the track in each direction.

**Question:** We are having difficulty finding producers of stainless steel prestressing strand for this project. We found one producer of stainless steel strand, but they do not produce the size called up for the girders on this project. Would another finish of strand be acceptable for use in these NEBT 47 girders?

**Response:** Stainless strand shall be used in the NEBT 47 girders. Sumiden Wire has a large quantity of the specified strand, please see their representatives contact information below:

Steve Koch  
2502 West Beach Drive  
Oak Island, NC 28465  
[skoch@sumidenwire.com](mailto:skoch@sumidenwire.com)  
(336)-406-9544

**Question:** When new roadway construction is complete can the temporary detour roadway remain in place or does the area need to be returned to original condition?

**Response:** All material placed for the temporary detour must be removed, and the area returned to original condition.

**Question:** Are allowable work windows forthcoming with the permit documents?

**Response:** Yes, please see the revised environmental packages dated 9/10/21, for all allowable work windows.

**Question:** Can the George Wright Road between US 1 and Moore Pl be used for Contractor staging?

**Response:** Yes, once construction of the Special detour at the intersection of Route 1 and George Wright Road requires closing George Wright Rd, the area up to Moore Pl may be used for staging. Any damage done to existing roadway pavement in these areas will be the responsibility of the Contractor to repair/replace.

**Question:** Does access need to be maintained to the Robert E. DeWick recreation area boat ramp off George Wright Rd during construction?

**Response:** No, the boat ramp can be closed as soon as construction begins. The town of Woolwich will need to be notified of the ramp closure date at least 7 days before closure.

**Question:** Please provide the groundwater monitoring well measurements that were taken noted in the Geotechnical Reports. Readings at the borings are provided in the logs but not the readings at the monitoring wells.

**Response:**

Station 46 Bridge Well Readings						
Well ID	Date	Time	Well Stickup (ft)	Ground Surface Elevation (ft)	Depth bgs (ft)	Ground Water Elevation
BB-WS46-303	4/15/2021	900	2.3	4.4	2.4	2.0
BB-WS46-303	4/19/2021	1150	2.3	4.4	2.6	4.2
BB-WS46-303	4/19/2021	1306	2.3	4.4	4.3	2.5
BB-WS46-303	5/19/2021	0837	2.3	4.4	0.9	3.5
BB-WS46-303	5/19/2021	1330	2.3	4.4	1.8	2.6
BB-WS46-305	4/19/2021	910	2.6	2.9	0.1	2.8
BB-WS46-305	4/19/2021	1315	2.6	2.9	0.1	2.8
BB-WS46-305	5/19/2021	0851	2.6	2.9	0.4	2.5
BB-WS46-305	5/19/2021	1330	2.6	2.9	0.7	2.2

**Question:** Per Pleasant Cove Geotechnical Design Report part 6.0 Recommendations paragraph 6.1 Settlement Mitigation, excavation of the new channel to bottom of pile cap should happen prior to driving pile and constructing the abutments. Is this recommendation the mandatory sequence of construction for the Pleasant Cove Abutments or can abutment pile be drive prior to excavating the new channel?

**Response:** This is a mandatory sequence of the pile installation, at a minimum the channel should be excavated to the bottom of the abutment elevation prior to pile installation, final channel excavations can be done at a later date. The intent of this sequence is to prevent the potential of lateral squeeze and additional lateral load on the abutment piles as a result of the soil unload in the channel.

Consider these changes and information prior to submitting your bid on **October 6, 2021**.

Sincerely,



George M. A. Macdougall P.E.  
Contracts & Specifications Engineer

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023929.00

Project(s): 023929.00, 023929.01

SECTION: 1 MAIN ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	202.13 REMOVING EXISTING RAILINGS (RETAINED BY DEPARTMENT)	1,290.000 LF	_____	 _____	_____	 _____
0020	202.19 REMOVING EXISTING BRIDGE STATION 46	LUMP SUM	LUMP SUM		_____	 _____
0030	202.2006 REMOVE AND RELOCATE GAZEBO	LUMP SUM	LUMP SUM		_____	 _____
0040	202.202 REMOVING PAVEMENT SURFACE	890.000 SY	_____	 _____	_____	 _____
0050	203.20 COMMON EXCAVATION	19,600.000 CY	_____	 _____	_____	 _____
0060	203.24 COMMON BORROW	4,520.000 CY	_____	 _____	_____	 _____
0070	203.25 GRANULAR BORROW	2,680.000 CY	_____	 _____	_____	 _____
0080	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	3,180.000 CY	_____	 _____	_____	 _____
0090	209.29 VERTICAL DRAINAGE WICKS	314,000.000 LF	_____	 _____	_____	 _____
0100	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	33,600.000 CY	_____	 _____	_____	 _____
0110	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	1,230.000 T	_____	 _____	_____	 _____
0120	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	68.000 T	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0130	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	4,600.000 T	_____	 _____	_____	 _____
0140	409.15 BITUMINOUS TACK COAT - APPLIED	1,630.000 G	_____	 _____	_____	 _____
0150	461.131 TEMPORARY PAVEMENT	860.000 T	_____	 _____	_____	 _____
0160	501.239 DYNAMIC LOADING TESTS - PROVIDING FOR	7.000 EA	_____	 _____	_____	 _____
0170	501.46 STEEL H-BEAM PILES 73 LBS/FT, DELIVERED	1,190.000 LF	_____	 _____	_____	 _____
0180	501.461 STEEL H-BEAM PILES 73 LBS/FT, IN PLACE	1,190.000 LF	_____	 _____	_____	 _____
0190	501.54 STEEL H-BEAM PILES 117 LBS/FT, DELIVERED	7,180.000 LF	_____	 _____	_____	 _____
0200	501.541 STEEL H-BEAM PILES 117 LBS/FT, IN PLACE	7,180.000 LF	_____	 _____	_____	 _____
0210	501.90 PILE TIPS	91.000 EA	_____	 _____	_____	 _____
0220	501.91 PILE SPLICES	203.000 EA	_____	 _____	_____	 _____
0230	501.92 PILE DRIVING EQUIPMENT MOBILIZATION	LUMP SUM		LUMP SUM	_____	 _____

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			Dollars	Cents	Dollars	Cents
0240	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP SUM				
0250	502.22 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS (PLACED UNDER WATER)	930.000 CY				
0260	502.239 STRUCTURAL CONCRETE PIERS	LUMP SUM				
0270	502.24 STRUCTURAL CONCRETE PIERS (PLACED UNDER WATER)	790.000 CY				
0280	502.26 STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLABS ON STEEL BRIDGES	LUMP SUM				
0290	502.261 STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLAB ON CONCRETE BRIDGE	LUMP SUM				
0300	502.31 STRUCTURAL CONCRETE APPROACH SLABS	LUMP SUM				
0310	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALKS	LUMP SUM				
0320	502.565 CONCRETE FILL THRUST BLOCKS	3.000 CY				
0330	502.77 FIBER REINFORCED POLYMER BRIDGE DRAIN - TYPE: G	6.000 EA				

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			Dollars	Cents	Dollars	Cents
0340	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	84,900.000 LB	_____	 _____	_____	 _____
0350	503.13 REINFORCING STEEL, PLACING	84,900.000 LB	_____	 _____	_____	 _____
0360	503.17 MECHANICAL WELDED SPLICE	318.000 EA	_____	 _____	_____	 _____
0370	503.26 STAINLESS STEEL REINFORCEMENT - FABRICATED & DELIVERED	453,500.000 LB	_____	 _____	_____	 _____
0380	503.27 STAINLESS STEEL REINFORCEMENT - PLACING	453,500.000 LB	_____	 _____	_____	 _____
0390	504.702 STRUCTURAL STEEL FABRICATED AND DELIVERED, WELDED	LUMP SUM	LUMP SUM		_____	 _____
0400	504.71 STRUCTURAL STEEL ERECTION	LUMP SUM	LUMP SUM		_____	 _____
0410	505.08 SHEAR CONNECTORS	LUMP SUM	LUMP SUM		_____	 _____
0420	506.9104 THERMAL SPRAY COATING - SHOP APPLIED	LUMP SUM	LUMP SUM		_____	 _____
0430	507.0821 STEEL BRIDGE RAILING, 3 BAR	LUMP SUM	LUMP SUM		_____	 _____
0440	507.0822 STEEL APPROACH RAILING, 3-BAR	8.000 EA	_____	 _____	_____	 _____
0450	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP SUM	LUMP SUM		_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0460	510.10 SPECIAL DETOUR _____ ROADWAY WIDTH VEHICULAR & PEDESTRIAN TRAFFIC NOT SEPARATED 32 FT, PLEASANT COVE	LUMP SUM	LUMP	SUM	_____	_____
0470	510.10 SPECIAL DETOUR _____ ROADWAY WIDTH VEHICULAR & PEDESTRIAN TRAFFIC NOT SEPARATED 32 FT, STA 46	LUMP SUM	LUMP	SUM	_____	_____
0480	511.07 COFFERDAM: ABUT NO.1, PLEASANT COVE	LUMP SUM	LUMP	SUM	_____	_____
0490	511.07 COFFERDAM: ABUT NO.1, STATION 46	LUMP SUM	LUMP	SUM	_____	_____
0500	511.07 COFFERDAM: ABUT NO.2, PLEASANT COVE	LUMP SUM	LUMP	SUM	_____	_____
0510	511.07 COFFERDAM: ABUT NO.2, STATION 46	LUMP SUM	LUMP	SUM	_____	_____
0520	511.07 COFFERDAM: PIER NO.1	LUMP SUM	LUMP	SUM	_____	_____
0530	511.07 COFFERDAM: PIER NO.2	LUMP SUM	LUMP	SUM	_____	_____
0540	511.07 COFFERDAM: PIER NO.3	LUMP SUM	LUMP	SUM	_____	_____
0550	512.081 FRENCH DRAINS	LUMP SUM	LUMP	SUM	_____	_____
0560	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP SUM	LUMP	SUM	_____	_____

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			Dollars	Cents	Dollars	Cents
0570	520.21 EXPANSION DEVICE - GLAND SEAL	2.000 EA	_____	 _____	_____	 _____
0580	523.52 BEARING INSTALLATION	25.000 EA	_____	 _____	_____	 _____
0590	523.5551 POT OR DISC BEARINGS, FIXED	3.000 EA	_____	 _____	_____	 _____
0600	523.5552 POT OR DISC BEARINGS, EXPANSION	22.000 EA	_____	 _____	_____	 _____
0610	524.40 PROTECTIVE SHIELD	LUMP SUM		 LUMP SUM	_____	 _____
0620	526.301 PORTABLE CONCRETE BARRIER TYPE I	LUMP SUM		 LUMP SUM	_____	 _____
0630	527.34 WORK ZONE CRASH CUSHIONS	8.000 UN	_____	 _____	_____	 _____
0640	535.61 PRESTRESSED STRUCTURAL CONCRETE I-GIRDERS	LUMP SUM		 LUMP SUM	_____	 _____
0650	603.17 18 INCH CULVERT PIPE OPTION I	88.000 LF	_____	 _____	_____	 _____
0660	603.179 18 INCH CULVERT PIPE OPTION III	45.000 LF	_____	 _____	_____	 _____
0670	603.2891 96" RCP CLASS III	16.000 LF	_____	 _____	_____	 _____
0680	604.092 CATCH BASIN TYPE B1-C	3.700 EA	_____	 _____	_____	 _____
0690	605.11 12 INCH UNDERDRAIN TYPE C	190.000 LF	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0700	605.12 15 INCH UNDERDRAIN TYPE C	340.000 LF	_____	 _____	_____	 _____
0710	606.1301 31" W-BM GR, MID-WAY SPLICE-SGL FACED	1,730.000 LF	_____	 _____	_____	 _____
0720	606.1303 31" W-BM GR, MID-WAY SPLICE-15' RAD AND LESS	25.000 LF	_____	 _____	_____	 _____
0730	606.1304 31" W-BM GR, MID-WAY SPLICE-OVER 15' RAD	97.000 LF	_____	 _____	_____	 _____
0740	606.1305 31" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	4.000 EA	_____	 _____	_____	 _____
0750	606.1306 31" W-BM GR, MID-WAY SPLICE TANGENT TERMINAL	1.000 EA	_____	 _____	_____	 _____
0760	606.1721 BRIDGE TRANSITION - TYPE 1	8.000 EA	_____	 _____	_____	 _____
0770	606.259 ANCHORAGE ASSEMBLY	2.000 EA	_____	 _____	_____	 _____
0780	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	15.000 EA	_____	 _____	_____	 _____
0790	606.356 UNDERDRAIN DELINEATOR POST	1.000 EA	_____	 _____	_____	 _____
0800	606.78 LOW VOLUME GUARDRAIL END	1.000 EA	_____	 _____	_____	 _____
0810	607.183 CHAIN LINK SNOW FENCE 33 INCH	LUMP SUM		 LUMP SUM	_____	 _____

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			Dollars	Cents	Dollars	Cents
0820	609.31 CURB TYPE 3	570.000 LF	_____	 _____	_____	 _____
0830	610.08 PLAIN RIPRAP	2,600.000 CY	_____	 _____	_____	 _____
0840	610.18 STONE DITCH PROTECTION	32.000 CY	_____	 _____	_____	 _____
0850	613.319 EROSION CONTROL BLANKET	1,170.000 SY	_____	 _____	_____	 _____
0860	615.07 LOAM	460.000 CY	_____	 _____	_____	 _____
0870	618.14 SEEDING METHOD NUMBER 2	74.000 UN	_____	 _____	_____	 _____
0880	619.12 MULCH	74.000 UN	_____	 _____	_____	 _____
0890	619.14 EROSION CONTROL MIX	900.000 CY	_____	 _____	_____	 _____
0900	620.58 EROSION CONTROL GEOTEXTILE	4,500.000 SY	_____	 _____	_____	 _____
0910	620.66 DRAINAGE GEOCOMPOSITE	93.000 SY	_____	 _____	_____	 _____
0920	626.421 24 INCH DIAMETER FOUNDATION	14.000 LF	_____	 _____	_____	 _____
0930	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	9,900.000 LF	_____	 _____	_____	 _____
0940	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	864.000 SF	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0950	627.77 REMOVING PAVEMENT MARKINGS	1,850.000 SF	_____	 _____	_____	 _____
0960	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	13,300.000 LF	_____	 _____	_____	 _____
0970	629.05 HAND LABOR, STRAIGHT TIME	60.000 HR	_____	 _____	_____	 _____
0980	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	30.000 HR	_____	 _____	_____	 _____
0990	631.11 AIR TOOL (INCLUDING OPERATOR)	30.000 HR	_____	 _____	_____	 _____
1000	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	60.000 HR	_____	 _____	_____	 _____
1010	631.14 GRADER (INCLUDING OPERATOR)	30.000 HR	_____	 _____	_____	 _____
1020	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	40.000 HR	_____	 _____	_____	 _____
1030	631.22 FRONT END LOADER (INCLUDING OPERATOR)	30.000 HR	_____	 _____	_____	 _____
1040	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	30.000 HR	_____	 _____	_____	 _____
1050	634.160 HIGHWAY LIGHTING	LUMP SUM		 LUMP SUM	_____	 _____

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			Dollars	Cents	Dollars	Cents
1060	639.18 FIELD OFFICE TYPE A	1.000 EA	_____	 _____	_____	 _____
1070	639.26 INSTRUMENTATION - GEOTECHNICAL	LUMP SUM	LUMP SUM		_____	 _____
1080	643.72 TEMPORARY TRAFFIC SIGNAL RT1 AND NEQUASSET RD	LUMP SUM	LUMP SUM		_____	 _____
1090	645.292 REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS TYPE II	32.000 SF	_____	 _____	_____	 _____
1100	652.312 TYPE III BARRICADE	8.000 EA	_____	 _____	_____	 _____
1110	652.33 DRUM	65.000 EA	_____	 _____	_____	 _____
1120	652.34 CONE	65.000 EA	_____	 _____	_____	 _____
1130	652.35 CONSTRUCTION SIGNS	600.000 SF	_____	 _____	_____	 _____
1140	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP SUM	LUMP SUM		_____	 _____
1150	652.38 FLAGGER	1,050.000 HR	_____	 _____	_____	 _____
1160	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM	LUMP SUM		_____	 _____
1170	659.10 MOBILIZATION	LUMP SUM	LUMP SUM		_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023929.00

Project(s): 023929.00, 023929.01

SECTION: 1 MAIN ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1180	803.01 TEST PITS	2.000 EA	_____	 _____	_____	 _____
1190	822.3152 TAPPING SLEEVE AND VALVE	1.000 EA	_____	 _____	_____	 _____
1200	822.322 6 INCH DUCTILE IRON PIPE	5.000 LF	_____	 _____	_____	 _____
1210	822.3701 16" DUCTILE IRON WATER MAIN	40.000 LF	_____	 _____	_____	 _____
1220	823.3113 16" INSERTION VALVE AND VALVE BOX	1.000 EA	_____	 _____	_____	 _____
1230	824.3010 HYDRANT ASSEMBLY	1.000 EA	_____	 _____	_____	 _____
1240	825.33 1 INCH CORP STOP	1.000 EA	_____	 _____	_____	 _____
1250	825.331 1" CURB STOP	1.000 EA	_____	 _____	_____	 _____
1260	825.43 1" COPPER SERVICE	6.000 LF	_____	 _____	_____	 _____
1270	825.64 20" HIGH DENSITY POLYETHYLENE WATER MAIN	250.000 LF	_____	 _____	_____	 _____
1280	827.33 TRENCH INSULATION	40.000 LF	_____	 _____	_____	 _____
Section: 1			Total:		_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023929.00

Project(s): 023929.00, 023929.01

SECTION: 2 PCMG WALL

Alt Set ID: AL Alt Mbr ID: 1

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1290	674.10 PREFABRICATED CONCRETE MODULAR GRAVITY WALL	1,700.000 SF	_____	 _____	_____	 _____
	Section: 2		Total:		_____	 _____

SECTION: 3 MSE WALL

Alt Set ID: AL Alt Mbr ID: 2

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1300	677.20 MECHANICALLY STABILIZED EARTH RETAINING WALL	1,700.000 SF	_____	 _____	_____	 _____
	Section: 3		Total:		_____	 _____
			Total Bid:		_____	 _____

SPECIAL PROVISION  
SECTION 535  
PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE  
(Stainless Steel Strands)

This subsection is amended as follows:

535.02 Materials

This Subsection is amended to include the following:

Stainless Steel Strand	709.031
------------------------	---------

535.18 Prestressing

This Subsection is amended to include the following to the end of the section:

Stainless steel strands shall be stressed with appropriately matched wedges and jacking equipment in accordance with manufacturer recommendations.

535.19 Detensioning

This subsection is amended to include the following:

The Fabricator shall submit a detensioning plan to the Department for review. The detensioning plan submittal is a Working Drawing. The plan at a minimum shall describe the Fabricator's procedure for limiting stress increases in strands, and minimizing the potential for strand rupturing, during the detensioning process. The detensioning plan shall be signed and sealed by a Professional Engineer, licensed in accordance with State of Maine laws.

535.27 Basis of Payment

This Subsection is amended to include the following to the end of the section:

The Work specified herein is included under Pay Item 535.61, Prestressed Structural Concrete I-Girders. No separate payment will be made.



Environmental Summary Sheet

WIN: 23929.00
Town: Woolwich
CPD Team Leader: Andrea Brady
ENV Field Contact: Val Derosier

Date Submitted: 9/10/2021

NEPA Complete: Programmatic Categorical Exclusion 23 CFR 771.117(c)(28) on 5/5/2021

Section 106
No Adverse Effect

Section 4(f) and 6(f)
Section 4(f)
No use
Section 6(f)
No takes

Maine Department of Inland Fisheries and Wildlife Essential Habitat

Not Applicable Timing Window: Not Applicable

Section 7
Species of Concern: Atlantic Salmon DPS & Critical Habitat; Atlantic & Shortnose Sturgeon
DPS & Critical Habitat – Not Likely to Adversely Affect
Comments/References: Programmatic Consultation with NMFS GARFO complete (FHWA Lead).
Special Conditions apply; see Special Provision 105

Species of Concern: Northern Long-eared Bat – Not Likely to Adversely Affect
Comments/References: 4(d) Streamlined Consultation Complete

Essential Fish Habitat
Coastal Multi-Species – Adverse Effect – Not Substantial. Special Conditions apply; see Special Provision 105

Maine Department of Conservation/Public Lands, Submerged Land Lease
Not applicable

Maine Land Use Planning Commission
Not Applicable

\*Applicable Standards and Permit are included with the contract

Maine Department of Environmental Protection
PBR Section 11 - Special Conditions apply; see Special Provision 105

U.S. Army Corps of Engineers (ACOE): Section 404 of the Clean Water Act
PCN (formerly Category 2) – Permit Pending

\*Applicable Standards and Permit are included with the contract

Stormwater Review
N/A

Table with 2 columns: Special Provisions Required and Applicability (N/A or Applicable with checkboxes).

\*All permits and approvals based on plans/scope as of: 8/4/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**PERMIT BY RULE NOTIFICATION FORM**

(For use with DEP Regulation, Natural Resources Protection Act - Permit by Rule Standards, Chapter 305)

APPLICANT INFORMATION (Owner)				AGENT INFORMATION (If Applying on Behalf of Owner)			
Name:				Name:			
Mailing Address:				Mailing Address:			
Mailing Address:				Mailing Address:			
Town/State/Zip:				Town/State/Zip:			
Daytime Phone #:		Ext:		Daytime Phone #:		Ext:	
Email Address:				Email Address:			
PROJECT INFORMATION							
Part of a larger project? (check 1):	<input type="checkbox"/> Yes <input type="checkbox"/> No	After the Fact? (check 1):	<input type="checkbox"/> Yes <input type="checkbox"/> No	Project involves work below mean low water? (check 1):	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name of waterbody:	
Project Town:		Town Email Address:				Map and Lot Number:	
Brief Project Description:							
Project Location & Brief Directions to Site:							

**PERMIT BY RULE (PBR) SECTIONS (Check at least one):** I am filing notice of my intent to carry out work that meets the requirements for Permit-by-Rule (PBR) under DEP Rules, [Chapter 305](#). I and my agent(s), if any, have read and will comply with all of the standards in the Sections checked below.

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Sec. (2) Act. Adj. to Prot. Natural Res. | <input type="checkbox"/> Sec. (9) Utility Crossing                 | <input type="checkbox"/> Sec. (16) Coastal Sand Dune Projects       |
| <input type="checkbox"/> Sec. (3) Intake Pipes                    | <input type="checkbox"/> Sec. (10) Stream Crossing                 | <input type="checkbox"/> Sec. (17) Transfer/Permit Extension        |
| <input type="checkbox"/> Sec. (4) Replacement of Structures       | <input type="checkbox"/> Sec. (11) State Transportation Facilities | <input type="checkbox"/> Sec. (18) Maintenance Dredging             |
| <input type="checkbox"/> Sec. (6) Movement of Rocks or Veg.       | <input type="checkbox"/> Sec. (12) Restoration of Natural Areas    | <input type="checkbox"/> Sec. (19) Act. Near SVP Habitat            |
| <input type="checkbox"/> Sec. (7) Outfall Pipes                   | <input type="checkbox"/> Sec. (13) F&W Creat./Water Qual. Improv.  | <input type="checkbox"/> Sec. (20) Act. Near Waterfowl/Bird Habitat |
| <input type="checkbox"/> Sec. (8) Shoreline Stabilization         | <input type="checkbox"/> Sec. (15) Public Boat Ramps               |   |

**NOTE: Municipal permits also may be required. Contact your local code enforcement office for information. Federal permits may be required for stream crossings and for projects involving wetland fill. Contact the Army Corps of Engineers at the Maine Project Office for information.**

**NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE NECESSARY ATTACHMENTS AND FEE**

- Attach** all required submissions for the PBR Section(s) checked above. The required submissions for each PBR Section are outlined in Chapter 305 and may differ depending on the Section you are submitting under.
- Attach** a location map that clearly identifies the site (U.S.G.S. topo map, Maine Atlas & Gazetteer, or similar).
- Attach** Proof of Legal Name if applicant is a corporation, LLC, or other legal entity. Provide a copy of Secretary of State's registration information (available at <http://icrs.informe.org/nei-sos-icrs/ICRS?MainPage=x>). Individuals and municipalities are not required to provide any proof of identity.

**FEE:** Pay by credit card at the [Payment Portal](#). The Permit-by-Rule fee may be found here <https://www.maine.gov/dep/feeschedule.pdf> and is currently \$256.

- Attach** payment confirmation from the Payment Portal when filing this notification form. [Internal Billing-State Agency](#)

**Signature & Certification:**

- I authorize staff of the Departments of Environmental Protection, Inland Fisheries & Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules.
- I understand that this PBR becomes effective 14 calendar days after receipt by the Department of this completed form, the required submissions, and fee, *unless the Department approves or denies the PBR prior to that date.*

**By signing this Notification Form, I represent that the project meets all applicability requirements and standards in Chapter 305 rule and that the applicant has sufficient title, right, or interest in the property where the activity takes place.**

Signature of Agent or Applicant (may be typed):	<i>Kristen Chamberlain</i>	Date:	
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**Keep a copy as a record of permit.** Email this completed form with attachments to DEP at: [DEP.PBRNotification@maine.gov](mailto:DEP.PBRNotification@maine.gov)  
 DEP will send a copy to the Town Office as evidence of DEP's receipt of notification. No further authorization will be issued by DEP after receipt of notice. A PBR is valid for two years, except Section 4, "Replacement of Structures," are valid for three years. **Work carried out in violation of the Natural Resources Protection Act or any provision in Chapter 305 is subject to enforcement.**

## 11. State transportation facilities

### A. Applicability

- (1) This section applies to the maintenance, repair, reconstruction, rehabilitation, replacement or minor construction of a State Transportation Facility carried out by, or under the authority of, the Maine Department of Transportation (MaineDOT) or the Maine Turnpike Authority, including any testing or preconstruction engineering, and associated technical support services.
- (2) This section does not apply to an activity within a coastal sand dune system.

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NOTE: The construction of a transportation facility other than roads and associated facilities may be subject to the Storm Water Management Law, 38 M.R.S.A. Section 420-D.

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### B. Standards

- (1) Photographs of the area to be altered by the activity must be taken before work on the site begins. The photographs must be kept on file and be made available at the request of the DEP.
- (2) The activity must be reviewed by the Department of Inland Fisheries and Wildlife and the Department of Marine Resources, as applicable. The applicant must coordinate with the reviewing agencies and incorporate any recommendations from those agencies into the performance of the activity.
- (3) All construction activities undertaken must be detailed in a site-specific Soil Erosion and Water Pollution Control Plan and conducted in accordance with MaineDOT's Best Management Practices for Erosion and Sediment Control, dated January 2000, and Standard Specifications, dated December 2002.
- (4) Alignment changes may not exceed a distance of 200 feet between the old and new center lines in any natural resource.
- (5) The activity may not alter more than 300 feet of shoreline (both shores added together) within a mile stretch of any river, stream or brook, including any bridge width or length of culvert.
- (6) The activity may not alter more than 150 feet of shoreline (both shores added together) within a mile stretch of any outstanding river segment identified in 38 M.R.S.A. 480-P, including any bridge width or length of culvert.
- (7) The activity must minimize wetland intrusion. The activity is exempt from the provisions of Chapter 310, the Wetland and Waterbodies Protection Rules, if the activity alters less than 15,000 square feet of natural resources per mile of roadway (centerline measurement) provided that the following impacts are not exceeded within the 15,000 square foot area:
  - (a) 1,000 square feet of coastal wetland consisting of salt tolerant vegetation or shellfish habitat; or

- (b) 5,000 square feet of coastal wetland not containing salt tolerant vegetation or shellfish habitat; or
- (c) 1,000 square feet of a great pond.

All other activities must be performed in compliance with all sections of Chapter 310, the Wetland Protection Rules, except 310.2(C), 5(A), 9(A), 9(B) and 9(C).

- (8) The activity may not permanently block any fish passage in any watercourse containing fish. The applicant must coordinate with the reviewing agencies listed in paragraph 2 above to improve fish passage and incorporate any recommendations from those agencies into the performance of the activity.

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NOTE: For guidance on meeting the design objectives for fish passage, including peak flow, maximum velocity, mining depth and gradient, see the MaineDOT Waterbody and Wildlife Crossing Policy and Design Guide (July 2008), developed in conjunction with state and federal resource and regulatory agencies.

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- (9) Rocks may not be removed from below the normal high water line of any coastal wetland, freshwater wetland, great pond, river, stream or brook except to the minimum extent necessary for completion of work within the limits of construction.
- (10) If work is performed in a river, stream or brook that is less than three feet deep at the time and location of the activity, the applicant must isolate the work area from the resource and divert stream flows around the work area, maintaining downstream flows while work is in progress.
- (11) Wheeled or tracked equipment may not operate in the water. Equipment operating on the shore may reach into the water with a bucket or similar extension. Equipment may cross streams on rock, gravel or ledge bottom. If avoiding the operation of wheeled or tracked equipment in the water is not possible, the applicant must explain the need to operate in the water. Approval from the DEP to operate in the water must be in writing, and any recommendations from the DEP must be incorporated into the performance of the activity.
- (12) All wheeled or tracked equipment that must travel or work in a vegetated wetland area must travel and work on mats or platforms.
- (13) Any debris or excavated material must be stockpiled either outside the wetland or on mats or platforms. Erosion and sediment control best management practices must be used, where necessary, to prevent sedimentation. Any debris generated during the activity must be prevented from washing downstream and must be removed from the wetland or water body. Disposal of debris must be in conformance with the Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Section 1301 *et seq.*
- (14) Work below the normal high water line of a great pond, river, stream or brook must be done at low water except for emergency work or work agreed to by the resource agencies listed in paragraph 2 above.
- (15) Perimeter controls must be installed before the work starts. Disturbance of natural resources beyond the construction limits shown on the plans is not allowed under this rule.

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NOTE: Guidance on the location of construction limits can be obtained from the on site Construction Manager.

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- (16) The use of untreated lumber is preferred. Lumber pressure treated with chromated copper arsenate (CCA) may be used only if necessary and only if use is allowed under federal law and not prohibited from sale under 38 M.R.S.A. 1682, and provided it is cured on dry land in a manner that exposes all surfaces to the air for a period of at least 21 days prior to construction. Wood treated with creosote or pentachlorophenol may not be used where it will contact water.
- (17) A temporary road for equipment access must be constructed of crushed stone, blasted ledge, or similar materials that will not cause sedimentation or restrict fish passage. Such roads must be completely removed at the completion of the activity. In addition, any such temporary roads which are in rivers, streams or brooks, must allow for a passage of stormwater flows associated with a 10-year storm.
- (18) Non-native species may not be planted in restored areas.
- (19) Disposal of debris must be in conformance with Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Sections 1301 *et seq.*
- (20) Disturbance of vegetation must be avoided, if possible. Where vegetation is disturbed outside of the area covered by any road or structure construction, it must be reestablished immediately upon completion of the activity and must be maintained.
- (21) A vegetated area at least 25 feet wide must be established and maintained between any new stormwater outfall structure and the high water line of any open water body. A velocity reducing structure must be constructed at the outlet of the stormwater outfall that will create sheet flow of stormwater, and prevent erosion of soil within the vegetated buffer. If the 25 foot vegetated buffer is not practicable, the applicant must explain the reason for a lesser setback in writing. Approval from the DEP must be in writing and any recommendations must be incorporated into the activity.

**C. Definitions.** The following terms, as used in this chapter, have the following meanings, unless the context indicates otherwise:

- (1) Diversion. The rerouting of a river, stream or brook around a construction site and then back to the downstream channel.
- (2) Fill. a. (verb) To put into or upon, supply to, or allow to enter a water body or wetland any earth, rock, gravel, sand, silt, clay, peat, or debris; b. (noun) Material, other than structures, placed in or immediately adjacent to a wetland or water body.
- (3) Floodplain wetlands. Freshwater wetlands that are inundated with flood water during a 100-year flood event based on flood insurance maps produced by the Federal Emergency Agency or other site specific information.
- (4) Riprap. Heavy, irregularly shaped rocks that are fit into place, without mortar, on a slope as defined in the MaineDOT Standard Specifications, dated **November 2014**.

Town: Woolwich  
WIN #: 23929.00  
Date: 9/27/2021

SPECIAL PROVISION  
SECTION 105  
General Scope of Work  
(Environmental Requirements)

Work within stream (“In Stream Work,” see MaineDOT Standard Specifications 101.2 Definitions) requires special conditions to minimize impacts. The following special conditions shall apply to this project. In tidally influenced water, in stream work consists of any activity conducted below the highest astronomical tide as identified by MaineDEP and Maine Geological Survey: <https://www.maine.gov/dep/land/slz/hat18.pdf>

The following special conditions shall apply to this project:

- I. In-Water work window applies only to work south of the existing access road in the Back River Creek Marsh below Elevation 4.8 (NAVD88) as shown in the attached figure.
  - a. In-Water Work shall not be allowed between the dates of March 11 and November 9.  
**(In-Water work is allowed from November 10 and March 10)**
  - b. Work below the Highest Annual Tide Elevation 4.8 (NAVD88) that is completed in the dry may be completed anytime.
- II. Work north of the existing access road may be completed anytime.

IV. Special Conditions:

1. Permit application with the Army Corps of Engineers is currently pending. In-water work may not begin until an ACOE permit has been issued. These documents will be provided to the contractor as soon as they are available. In-water work shall NOT begin without written permission from the MaineDOT.
2. Special Conditions of Endangered Species Act (Section 7) Consultation with National Marine Fisheries Service (summarized in this Special Provision 105 and ACOE permit).
3. The Contractor shall hold a pre-construction meeting with appropriate MaineDOT Environmental Office staff, other MaineDOT staff, and the Contractor(s) to review all procedures and requirements for avoiding and minimizing effects to Atlantic salmon and sturgeon. The following individuals/agencies shall be invited: ACOE (Jay Clement, [jay.l.clement@usace.army.mil](mailto:jay.l.clement@usace.army.mil) and Federal Highway Administration (FHWA; Eva Birk, [eva.birk@dot.gov](mailto:eva.birk@dot.gov)).
4. The contractor shall complete all in-water work within a cofferdam.
5. All intertidal construction below Highest Annual Tide Elevation 4.8 (NAVD88) shall be performed in low water as much as possible.
6. No blasting or use of explosives at any time.
7. A vibratory hammer will be used as much as possible for all pile driving activities. Pile driving will occur at low water.
8. The contractor shall employ a soft start technique for all pile driving and pile removal. A “soft start” is required to allow animals an opportunity to leave the project vicinity before sound pressure levels increase.
  - a. For vibratory pile installation: the hammer shall be operated at reduced power for 15 seconds followed by a one-minute waiting period. This sequence of 15 seconds of reduced energy driving, one-minute waiting period will be repeated two additional times, followed immediately by pile-driving at full rate and energy.
  - b. For impact pile driving: pile driving will commence with an initial set of three strikes by the hammer at 40% energy, followed by a one minute wait period, then two subsequent three-strike sets at 40% energy, with one-minute waiting periods, before initiating continuous impact driving.
9. The contractor shall contact Eric Ham of MaineDOT Environmental Office (207-215-7356, [eric.ham@maine.gov](mailto:eric.ham@maine.gov)) at least 2 weeks prior to installation of any cofferdams to coordinate fish evacuation. Fish evacuation includes electrofishing. Electrofishing activities are prohibited when water temperature is greater than or equal to 22 degrees Celsius (71.6 degrees Fahrenheit).
10. The Contractor shall conduct all construction activities in accordance with the MaineDOT-approved Soil Erosion and Water Pollution Control Plan. In stream turbidity shall be visually monitored and all erosion

Town: Woolwich

WIN #: 23929.00

Date: 9/27/2021

controls will be inspected daily to ensure that the measures taken are adequate. If inspection shows that the erosion controls are ineffective, immediate action shall be taken to repair, replace, or reinforce controls as necessary.

11. For any required pumping operations, the contractor shall use a screen on each pump intake sufficiently large enough so that the approach velocity does not exceed 6.10 m sec-1 (0.20 ft sec-1). Square or round screen face openings are not to exceed 2.38 mm (3/32 in) on a diagonal. Criteria for slotted face openings must not exceed 1.75 mm (approximately 1/16 in) in the narrow direction. These screen criteria follow NMFS guidelines (2008).
12. All areas of temporary waterways or wetland fill shall be restored to their original contour and character upon completion of the project. Temporary fill includes fill that received authorization and fill that mistakenly enters a resource (i.e., from slope failures, accidental broken sandbag cofferdams, miscellaneous construction materials, etc.)
13. The contractor shall minimize vegetation clearing and soil disturbance adjacent to the waterway to the maximum extent practicable. Areas of disturbed soil adjacent to the waterways will be stabilized and re-vegetated with a seed mix appropriate for coastal areas in Maine.
14. The contractor shall fully remove all cofferdams from the stream immediately following completion of in-stream work using techniques to minimize turbidity releases.
15. Heavy construction equipment shall travel only over non-erodible stream substrate (e.g., ledge, cobble) and when approved by the MaineDOT Environmental Field Contact.
16. Within vegetated wetland areas or soft substrate, the contractor shall use timber mats or similar protections to minimize damage to wetland soil or vegetation.
17. No equipment, materials, or machinery shall be stored, cleaned, fueled, or repaired within any wetland or stream resource. These activities shall occur more than 100 feet from any wetland or stream resource and shall follow the specifications of the Soil Erosion and Water Pollution Control Plan (SEWPCP).
18. All pumps and generators required for in-stream work shall be cleaned of external oil, grease, dirt, and mud such that turbid water does not drain to any wetland or stream. Any leaks of this equipment shall be fixed prior to entering streams or areas that drain directly to streams or wetlands. Operation shall follow the specifications of the SEWPCP.

V. Approvals:

1. Temporary Soil Erosion and Water Pollution Control Plan
2. Permitted Resource Impacts (square feet), see ACOE permit for locations:

<b>Impact Type</b>	<b>Freshwater Wetland</b>	<b>Coastal Wetland</b>	<b>Total</b>
<i>Permanent</i>	<i>PEM – 6,365</i>	<i>EEM – 3,750 – 450 = 3,300 (450 sf = restored due to removal of existing piers)</i>	<i>9,665</i>
<i>Temporary</i>	<i>PEM – 108,290</i>	<i>EEM – 2,800</i>	<i>111,090</i>

VI. All activities are prohibited (including placement and removal of cofferdams unless otherwise permitted by Regulatory Agencies) below the normal high water mark if outside the prescribed in-water work window, except for the following:

1. Work within a cofferdam constructed according to MaineDOT's Standard Specifications and in adherence with the contractor's approved "Soil Erosion and Water Pollution Control Plan".

VII. No work is allowed that completely blocks a river, stream, or brook without providing downstream flow.

NOTE: Regulatory Review and Approval is required to modify the existing In-Water work window. Requests for work window extensions must be submitted to the MaineDOT Environmental Office. Approval of requests for work window extensions is not guaranteed and may result in delays in construction schedule that are the sole responsibility of the contractor.

**WOOLWICH – ROUTE 1  
STATION 46 BRIDGE #3039  
BRIDGE REPLACEMENT  
WIN: 23929.00**

**GENERAL NOTE**

As this project is in the immediate vicinity of an active rail line (Rockland Branch Railroad), coal ash may be present within the limits of construction, particularly adjacent to the rail line alignment. Coal ash is characteristically identified as being a fine-grained black material. Coal ash, if encountered, shall be reused on-site as fill material. If the material cannot be reused on site, the Contractor is responsible for obtaining all approvals or permits, and any necessary analytical results required for proper disposal at a licensed Maine Department of Environmental Protection (MDEP) facility.

During the duration of the project, the Contractor is responsible for proper disposal of any railroad ties encountered and which cannot be reused on site. The Contractor is responsible to have unused ties disposed of as demolition waste at a landfill approved to accept demolition waste/debris. If the Contractor encounters other potential demolition debris and is not clear of proper disposal procedures, the Contractor shall notify the Resident. The Resident shall contact the Senior Geologist in Maine Department of Transportation Environmental Office (MaineDOT-ENV) at 207-624-3000 for clarification.

Further, if the Contractor encounters evidence of soil or groundwater contamination, the Contractor shall stop work in the contaminated area, secure the excavation, and immediately notify the Resident. The Resident shall contact the Senior Geologist in MaineDOT-ENV at 207-624-3000 and the MDEP at 800-482-0777. Work may only continue with authorization from the Resident.



Environmental Summary Sheet

WIN: 23929.01
Town: Woolwich
CPD Team Leader: Andrea Brady
ENV Field Contact: Val Derosier

Date Submitted: 9/10/2021

NEPA Complete: Programmatic Categorical Exclusion 23 CFR 771.117(c)(28) on 5/5/2021

Section 106
No Adverse Effect

Section 4(f) and 6(f)
Section 4(f)
No use
Section 6(f)
No takes

Maine Department of Inland Fisheries and Wildlife Essential Habitat

Not Applicable Timing Window: Not Applicable

Section 7
Species of Concern: Atlantic Salmon DPS & Critical Habitat; Atlantic & Shortnose Sturgeon
DPS & Critical Habitat – Not Likely to Adversely Affect
Comments/References: Programmatic Consultation with NMFS GARFO complete (FHWA Lead).
Special Conditions apply; see Special Provision 105
Species of Concern: Northern Long-eared Bat – Not Likely to Adversely Affect
Comments/References: 4(d) Streamlined Consultation Complete

Essential Fish Habitat
Coastal Multi-Species – Adverse Effect – Not Substantial. Special Conditions apply; see Special Provision 105

Maine Department of Conservation/Public Lands, Submerged Land Lease
Not applicable

Maine Land Use Planning Commission
Not Applicable

\*Applicable Standards and Permit are included with the contract

Maine Department of Environmental Protection
PBR Section 11 - Special Conditions apply; see Special Provision 105

U.S. Army Corps of Engineers (ACOE): Section 404 of the Clean Water Act
PCN (formerly Category 2) – Permit Pending

\*Applicable Standards and Permit are included with the contract

Stormwater Review
N/A

Table with 2 columns: Requirement Name and Applicability (N/A or Applicable with checkboxes). Rows include Special Provisions 105, 656, 656-Erosion Control Plan, 203-Dredge Material, 203-Special Fill-Streambed Materials, 610-Stream Channel Rock, and General Note for Hazardous Waste.

\*All permits and approvals based on plans/scope as of: 8/4/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**PERMIT BY RULE NOTIFICATION FORM**

(For use with DEP Regulation, Natural Resources Protection Act - Permit by Rule Standards, Chapter 305)

APPLICANT INFORMATION (Owner)				AGENT INFORMATION (If Applying on Behalf of Owner)			
Name:	Andrea Brady, Bridge Team Leader			Name:	Judy Gates, Environmental Planning Manager		
Mailing Address:	Maine Department of Transportation			Mailing Address:	HNTB Corp.		
Mailing Address:	16 State House Station			Mailing Address:	82 Running Hill Road, Suite 201		
Town/State/Zip:	Augusta, Maine 04333			Town/State/Zip:	South Portland, Maine		
Daytime Phone #:	(207) 592-0523	Ext:	N/A	Daytime Phone #:	(207) 228-0933	Ext:	N/A
Email Address:	Andrea.F.Brady@maine.gov			Email Address:	JUGates@HNTB.com		
PROJECT INFORMATION							
Part of a larger project? (check 1):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	After the Fact? (check 1):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Project involves work below mean low water? (check 1):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name of waterbody:	Pleasant Cove
Project Town:	Woolwich, Maine	Town Email Address:	administrator@woolwich.us			Map and Lot Number:	N/A (DOT ROW)
Brief Project Description:	Replacement of a malfunctioning, undersized culverts with a bridge span over Back River Creek in the Town of Woolwich, Maine, to eliminate ongoing flooding of US Route 1 and increase roadway resiliency to projected sea level rise and storm surge. This replacement will occur in conjunction with the Back River Restoration Partnership's						
Project Location & Brief Directions to Site:	Project location is on US Route 1, approximately 0.2 miles easterly of the Station 46 Bridge and 200 feet north of the intersection with George Wright Road.						

**PERMIT BY RULE (PBR) SECTIONS (Check at least one):** I am filing notice of my intent to carry out work that meets the requirements for Permit-by-Rule (PBR) under DEP Rules, [Chapter 305](#). I and my agent(s), if any, have read and will comply with all of the standards in the Sections checked below.

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Sec. (2) Act. Adj. to Prot. Natural Res. | <input type="checkbox"/> Sec. (9) Utility Crossing                            | <input type="checkbox"/> Sec. (16) Coastal Sand Dune Projects       |
| <input type="checkbox"/> Sec. (3) Intake Pipes                    | <input type="checkbox"/> Sec. (10) Stream Crossing                            | <input type="checkbox"/> Sec. (17) Transfer/Permit Extension        |
| <input type="checkbox"/> Sec. (4) Replacement of Structures       | <input checked="" type="checkbox"/> Sec. (11) State Transportation Facilities | <input type="checkbox"/> Sec. (18) Maintenance Dredging             |
| <input type="checkbox"/> Sec. (6) Movement of Rocks or Veg.       | <input type="checkbox"/> Sec. (12) Restoration of Natural Areas               | <input type="checkbox"/> Sec. (19) Act. Near SVP Habitat            |
| <input type="checkbox"/> Sec. (7) Outfall Pipes                   | <input checked="" type="checkbox"/> Sec. (13) F&W Creat./Water Qual. Improv.  | <input type="checkbox"/> Sec. (20) Act. Near Waterfowl/Bird Habitat |
| <input type="checkbox"/> Sec. (8) Shoreline Stabilization         | <input type="checkbox"/> Sec. (15) Public Boat Ramps                          |   |

**NOTE: Municipal permits also may be required. Contact your local code enforcement office for information. Federal permits may be required for stream crossings and for projects involving wetland fill. Contact the Army Corps of Engineers at the Maine Project Office for information.**

**NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE NECESSARY ATTACHMENTS AND FEE**

- Attach** all required submissions for the PBR Section(s) checked above. The required submissions for each PBR Section are outlined in Chapter 305 and may differ depending on the Section you are submitting under.
- Attach** a location map that clearly identifies the site (U.S.G.S. topo map, Maine Atlas & Gazetteer, or similar).
- Attach** Proof of Legal Name if applicant is a corporation, LLC, or other legal entity. Provide a copy of Secretary of State's registration information (available at <http://icrs.informe.org/nei-sos-icrs/ICRS?MainPage=x>). Individuals and municipalities are not required to provide any proof of identity.

**FEE:** Pay by credit card at the [Payment Portal](#). The Permit-by-Rule fee may be found here <https://www.maine.gov/dep/feeschedule.pdf> and is currently \$256.

- Attach** payment confirmation from the Payment Portal when filing this notification form.

<b>Signature &amp; Certification:</b>	
<ul style="list-style-type: none"> <li>• I authorize staff of the Departments of Environmental Protection, Inland Fisheries &amp; Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules.</li> <li>• I understand that this PBR becomes effective 14 calendar days after receipt by the Department of this completed form, the required submissions, and fee, <i>unless the Department approves or denies the PBR prior to that date.</i></li> </ul>	
<b>By signing this Notification Form, I represent that the project meets all applicability requirements and standards in Chapter 305 rule and that the applicant has sufficient title, right, or interest in the property where the activity takes place.</b>	
<b>Signature of Agent or Applicant (may be typed):</b>	Andrea F Brady
<b>Date:</b>	08/04/2021

**Keep a copy as a record of permit.** Email this completed form with attachments to DEP at: [DEP.PBRNotification@maine.gov](mailto:DEP.PBRNotification@maine.gov)  
 DEP will send a copy to the Town Office as evidence of DEP's receipt of notification. No further authorization will be issued by DEP after receipt of notice. A PBR is valid for two years, except Section 4, "Replacement of Structures," are valid for three years. **Work carried out in violation of the Natural Resources Protection Act or any provision in Chapter 305 is subject to enforcement.**

## 11. State transportation facilities

### A. Applicability

- (1) This section applies to the maintenance, repair, reconstruction, rehabilitation, replacement or minor construction of a State Transportation Facility carried out by, or under the authority of, the Maine Department of Transportation (MaineDOT) or the Maine Turnpike Authority, including any testing or preconstruction engineering, and associated technical support services.
- (2) This section does not apply to an activity within a coastal sand dune system.

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NOTE: The construction of a transportation facility other than roads and associated facilities may be subject to the Storm Water Management Law, 38 M.R.S.A. Section 420-D.

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### B. Standards

- (1) Photographs of the area to be altered by the activity must be taken before work on the site begins. The photographs must be kept on file and be made available at the request of the DEP.
- (2) The activity must be reviewed by the Department of Inland Fisheries and Wildlife and the Department of Marine Resources, as applicable. The applicant must coordinate with the reviewing agencies and incorporate any recommendations from those agencies into the performance of the activity.
- (3) All construction activities undertaken must be detailed in a site-specific Soil Erosion and Water Pollution Control Plan and conducted in accordance with MaineDOT's Best Management Practices for Erosion and Sediment Control, dated January 2000, and Standard Specifications, dated December 2002.
- (4) Alignment changes may not exceed a distance of 200 feet between the old and new center lines in any natural resource.
- (5) The activity may not alter more than 300 feet of shoreline (both shores added together) within a mile stretch of any river, stream or brook, including any bridge width or length of culvert.
- (6) The activity may not alter more than 150 feet of shoreline (both shores added together) within a mile stretch of any outstanding river segment identified in 38 M.R.S.A. 480-P, including any bridge width or length of culvert.
- (7) The activity must minimize wetland intrusion. The activity is exempt from the provisions of Chapter 310, the Wetland and Waterbodies Protection Rules, if the activity alters less than 15,000 square feet of natural resources per mile of roadway (centerline measurement) provided that the following impacts are not exceeded within the 15,000 square foot area:
  - (a) 1,000 square feet of coastal wetland consisting of salt tolerant vegetation or shellfish habitat; or

- (b) 5,000 square feet of coastal wetland not containing salt tolerant vegetation or shellfish habitat; or
- (c) 1,000 square feet of a great pond.

All other activities must be performed in compliance with all sections of Chapter 310, the Wetland Protection Rules, except 310.2(C), 5(A), 9(A), 9(B) and 9(C).

- (8) The activity may not permanently block any fish passage in any watercourse containing fish. The applicant must coordinate with the reviewing agencies listed in paragraph 2 above to improve fish passage and incorporate any recommendations from those agencies into the performance of the activity.

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NOTE: For guidance on meeting the design objectives for fish passage, including peak flow, maximum velocity, mining depth and gradient, see the MaineDOT Waterbody and Wildlife Crossing Policy and Design Guide (July 2008), developed in conjunction with state and federal resource and regulatory agencies.

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- (9) Rocks may not be removed from below the normal high water line of any coastal wetland, freshwater wetland, great pond, river, stream or brook except to the minimum extent necessary for completion of work within the limits of construction.
- (10) If work is performed in a river, stream or brook that is less than three feet deep at the time and location of the activity, the applicant must isolate the work area from the resource and divert stream flows around the work area, maintaining downstream flows while work is in progress.
- (11) Wheeled or tracked equipment may not operate in the water. Equipment operating on the shore may reach into the water with a bucket or similar extension. Equipment may cross streams on rock, gravel or ledge bottom. If avoiding the operation of wheeled or tracked equipment in the water is not possible, the applicant must explain the need to operate in the water. Approval from the DEP to operate in the water must be in writing, and any recommendations from the DEP must be incorporated into the performance of the activity.
- (12) All wheeled or tracked equipment that must travel or work in a vegetated wetland area must travel and work on mats or platforms.
- (13) Any debris or excavated material must be stockpiled either outside the wetland or on mats or platforms. Erosion and sediment control best management practices must be used, where necessary, to prevent sedimentation. Any debris generated during the activity must be prevented from washing downstream and must be removed from the wetland or water body. Disposal of debris must be in conformance with the Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Section 1301 *et seq.*
- (14) Work below the normal high water line of a great pond, river, stream or brook must be done at low water except for emergency work or work agreed to by the resource agencies listed in paragraph 2 above.
- (15) Perimeter controls must be installed before the work starts. Disturbance of natural resources beyond the construction limits shown on the plans is not allowed under this rule.

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NOTE: Guidance on the location of construction limits can be obtained from the on site Construction Manager.

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- (16) The use of untreated lumber is preferred. Lumber pressure treated with chromated copper arsenate (CCA) may be used only if necessary and only if use is allowed under federal law and not prohibited from sale under 38 M.R.S.A. 1682, and provided it is cured on dry land in a manner that exposes all surfaces to the air for a period of at least 21 days prior to construction. Wood treated with creosote or pentachlorophenol may not be used where it will contact water.
- (17) A temporary road for equipment access must be constructed of crushed stone, blasted ledge, or similar materials that will not cause sedimentation or restrict fish passage. Such roads must be completely removed at the completion of the activity. In addition, any such temporary roads which are in rivers, streams or brooks, must allow for a passage of stormwater flows associated with a 10-year storm.
- (18) Non-native species may not be planted in restored areas.
- (19) Disposal of debris must be in conformance with Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Sections 1301 *et seq.*
- (20) Disturbance of vegetation must be avoided, if possible. Where vegetation is disturbed outside of the area covered by any road or structure construction, it must be reestablished immediately upon completion of the activity and must be maintained.
- (21) A vegetated area at least 25 feet wide must be established and maintained between any new stormwater outfall structure and the high water line of any open water body. A velocity reducing structure must be constructed at the outlet of the stormwater outfall that will create sheet flow of stormwater, and prevent erosion of soil within the vegetated buffer. If the 25 foot vegetated buffer is not practicable, the applicant must explain the reason for a lesser setback in writing. Approval from the DEP must be in writing and any recommendations must be incorporated into the activity.

**C. Definitions.** The following terms, as used in this chapter, have the following meanings, unless the context indicates otherwise:

- (1) Diversion. The rerouting of a river, stream or brook around a construction site and then back to the downstream channel.
- (2) Fill. a. (verb) To put into or upon, supply to, or allow to enter a water body or wetland any earth, rock, gravel, sand, silt, clay, peat, or debris; b. (noun) Material, other than structures, placed in or immediately adjacent to a wetland or water body.
- (3) Floodplain wetlands. Freshwater wetlands that are inundated with flood water during a 100-year flood event based on flood insurance maps produced by the Federal Emergency Agency or other site specific information.
- (4) Riprap. Heavy, irregularly shaped rocks that are fit into place, without mortar, on a slope as defined in the MaineDOT Standard Specifications, dated **November 2014**.

### **13. Habitat creation or enhancement and water quality improvement activities**

#### **A. Applicability**

(1) This section applies to an alteration in or adjacent to a protected natural resource by a public natural resource agency. This rule also applies to an alteration in the same types of resources by a public utility, the Department of Transportation, owner of a federally licensed hydropower project, a conservation group, or a municipality in conjunction with and under the supervision of a public natural resource agency, exclusively for the purpose of:

(a) Creating or enhancing habitat for fisheries or wildlife; or

(b) A water quality improvement project.

These activities may include but are not limited to: fishway installation; the construction of artificial reefs; removal, maintenance, installation or modification of dam structures; and the construction and maintenance of nutrient retention structures.

(2) This section applies to a landfill closure activity approved by the DEP.

(3) This section does not apply to an activity that will not conform to the local shoreland zoning ordinance.

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#### **NOTES:**

(1) Contact the local Code Enforcement Officer for information on local shoreland zoning requirements.

- (2) A permit will be required from the US Army Corps of Engineers for the following types of projects:
- (a) Any activity involving impacts (direct and secondary) to freshwater wetlands;
  - (b) Any activity within a coastal wetland;
  - (c) Any activity within an open water area;
  - (d) Any activity within a river, stream or brook between October 2 and July 14; or
  - (e) Any activity involving work in waterways designated as Essential Fish Habitat for Atlantic salmon including all aquatic habitats in the watersheds of the following rivers and streams, including all tributaries to the extent that they are currently or were historically accessible for salmon migration: St. Croix, Boyden, Dennys, Hobart Stream, Aroostook, East Machias, Machias, Pleasant, Narraguagus, Tunk Stream, Patten Stream, Orland, Penobscot, Passagassawaukeag, Union, Ducktrap, Sheepscot, Kennebec, Androscoggin, Presumpscot, and Saco River.

A copy of the PBR notification form and original photographs, not photocopies, should be submitted to the Corps of Engineers for these activities (US Army Corps of Engineers, 675 Western Avenue, Suite #3, Manchester, ME 04351. Tel. (207) 623-8367).

#### **B. Submissions**

- (1) The applicant is required to submit photographs of the area in which this activity is proposed.
- (2) Photographs showing the finished activity must be submitted within 20 days of the activity's completion. The photographs must be sent with a copy of the notification form or labeled with the applicant's name and the town in which the activity took place.
- (3) Excluding landfill closures, if an activity is to be performed by a public utility, conservation group, municipality or the Maine Department of Transportation, certification from a public natural resource agency that the proposed activity will be done in conjunction with, or under the supervision of, the agency must be submitted with the notification form.

#### **C. Standards**

- (1) The following measures must be taken to prevent erosion of soil or fill material from disturbed areas into the resource:
  - (a) Staked hay bales or silt fence must be properly installed between the area of soil disturbance and the resource before the activity begins;
  - (b) Hay bales or silt fence barriers must be maintained until the disturbed area is permanently stabilized;
  - (c) Within 7 calendar days following the completion of any soil disturbance, and prior to any storm event, mulch must be spread on any exposed soils;

- (d) All disturbed soils must be permanently stabilized; and
- (e) Within 30 days of final stabilization of the site, any silt fence must be removed.

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NOTE: For guidance on erosion and sedimentation controls, consult the Maine Erosion and Sediment Control BMPs, dated March 2003. This handbook and other references are available from the DEP.

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- (2) Disturbance of vegetation must be avoided if possible. Where vegetation is disturbed outside of the area covered by any structures or filling associated with this activity, it must be reestablished immediately upon completion of the activity and must be maintained.
- (3) Non-native wetland plants may not be planted in disturbed wetland areas.
- (4) All debris or excavated material must be stockpiled either outside the wetland or on mats or platforms. Hay bales, silt fence, or mulch must be used where necessary to prevent sedimentation. Any debris generated during the activity must be prevented from washing downstream and must be removed from the wetland or water body. Disposal of debris must be in conformance with Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Section 1301 *et seq.*
- (5) Uncured concrete may not be placed directly into the water. Concrete must be pre-cast and cured at least three weeks before placing in the water, or where necessary, must be placed in forms and cured at least one week before the forms are removed. No washing of tools, forms, etc. may occur in or adjacent to the waterbody or wetland.
- (6) The use of untreated lumber is preferred. Lumber pressure-treated with chromated copper arsenate (CCA) may be used only if necessary and only if use is allowed under federal law and not prohibited from sale under 38 M.R.S.A. 1682, and provided it is cured on dry land in such a manner as to expose all surfaces to the air for at least 21 days prior to construction. Wood treated with creosote or pentachlorophenol may not be used where the wood will come in contact with water.
- (7) Wheeled or tracked equipment may not operate in the water. Equipment operating on the shore may reach into the water with a bucket or similar extension. Equipment may cross streams on rock, gravel or ledge bottom.
- (8) Work below the high water line of a great pond, river, stream or brook shall be done at low water, except as required for emergency flood control work. Measures, such as a silt boom or staked fencing, must be employed to reduce and isolate turbidity.
- (9) All wheeled or tracked equipment that must travel or work in a vegetated coastal wetland must travel and work on mats or platforms in order to protect wetland vegetation.

**D. Definitions.** The following terms, as used in this chapter, have the following meanings, unless the context indicates otherwise:

- (1) **Dam.** Any man made artificial barrier, including appurtenant works, the site on which it is located and appurtenant rights of flowage and access, that impounds or diverts a river, stream or brook or great pond.

- (2) **Public natural resources agency.** The Maine Department of Inland Fisheries and Wildlife, the Maine Department of Marine Resources, the Maine DEP, the Maine Department of Conservation, the United States Fish and Wildlife Service, the United States Natural Resources Conservation Service, the United States Environmental Protection Agency, the United States Army Corps of Engineers, the United States Forest Service, National Marine Fisheries Service, National Park Service, National Oceanic and Atmospheric Administration, and County Soil and Water Conservation Districts.
- (3) **Water quality improvement project.** An activity designed exclusively to maintain or enhance water quality of a freshwater wetland, great pond or river, stream, brook or a coastal wetland. Examples include but are not limited to: nutrient retention basins, water level manipulation and rerouting of drainage ways.
- (4) **Non-native wetland plants.** Wetland grasses, forbs, shrubs, or trees not native to the State of Maine, for example, common reed (*Phragmites communis*) and purple loosestrife (*Lythrum salicaria*).

#### 14. Piers, wharves, pilings and haulouts *[repealed]*

#### 15. Public boat ramps

##### A. Applicability

- (1) This section applies to the construction of a new, or the replacement of an existing, public boat ramp or carry-in launch area, including associated parking and accessways, in or adjacent to a protected natural resource by a public natural resource agency, Maine Department of Transportation, municipality, or owners of a federally licensed hydropower project within the resource affected by the hydropower project. This section does not apply if a portion of the ramp or related facilities is located in, on or over emergent marsh vegetation or intertidal mudflat.
- (2) This section applies to the construction of up to 2 launch lanes at a facility provided no more than 2 lanes exist or will exist at the completion of the activity.
- (3) This section does not apply to a new boat ramp on a lake infested with aquatic invasive plants, as defined in 38 M.R.S.A. Section 410-N. The Department of Environmental Protection identifies and maintains a list of these infested lakes.

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NOTE: A permit will be required from the US Army Corps of Engineers for the following types of projects:

- (a) Any activity involving open trench excavation in a waterbody;
- (b) Any activity in coastal waterways;
- (c) Any activity within a river, stream or brook between October 2 and July 14; or
- (d) Any activity involving work in waterways designated as Essential Fish Habitat for Atlantic salmon including all aquatic habitats in the watersheds of the following rivers and streams, including all tributaries to the extent that they are currently or were historically accessible for

Town: Woolwich  
WIN #: 23929.01  
Date: 9/10/2021

SPECIAL PROVISION  
SECTION 105  
General Scope of Work  
(Environmental Requirements)

Work within stream (“In Stream Work,” see MaineDOT Standard Specifications 101.2 Definitions) requires special conditions to minimize impacts. The following special conditions shall apply to this project.

The following special conditions shall apply to this project:

- I. In-Water work window applies to the Back River Creek/Kennebec River Estuary at proposed bridge replacement.
- II. In-Water Work shall not be allowed between the dates of March 16 and November 7.  
**(In-Water work is allowed from November 8 and March 15)**

IV. Special Conditions:

1. Permit application with the Army Corps of Engineers is currently pending. Work wetlands and in-water work may not begin until an ACOE permit has been issued. These documents will be provided to the contractor as soon as they are available. Wetland filling and in-water work shall NOT begin without written permission from the MaineDOT.
2. The Contractor shall hold a pre-construction meeting with appropriate MaineDOT Environmental Office staff, other MaineDOT staff, and the Contractor(s) to review all procedures and requirements for avoiding and minimizing effects to Atlantic salmon and sturgeon. The following individuals/agencies shall be invited: ACOE (Jay Clement, [jay.l.clement@usace.army.mil](mailto:jay.l.clement@usace.army.mil) and Federal Highway Administration (FHWA; Eva Birk, [eva.birk@dot.gov](mailto:eva.birk@dot.gov) ).
3. All intertidal construction below Highest Annual Tide Elevation 4.8 (NAVD88) shall be performed in low water as much as possible.
4. Fill placement in the water should be enclosed with a BMP such as a turbidity curtain.
5. No blasting or use of explosives at any time.
6. A vibratory hammer will be used as much as possible for all pile driving activities. Pile driving will occur at low water.
7. The contractor shall employ a soft start technique for all pile driving and pile removal in the water. A “soft start” is required to allow animals an opportunity to leave the project vicinity before sound pressure levels increase.
  - a. For vibratory pile installation: the hammer shall be operated at reduced power for 15 seconds followed by a one-minute waiting period. This sequence of 15 seconds of reduced energy driving, one-minute waiting period will be repeated two additional times, followed immediately by pile-driving at full rate and energy.
  - b. For impact pile driving: pile driving will commence with an initial set of three strikes by the hammer at 40% energy, followed by a one minute wait period, then two subsequent three-strike sets at 40% energy, with one-minute waiting periods, before initiating continuous impact driving.
8. The contractor shall contact Eric Ham of MaineDOT Environmental Office (207-215-7356, [eric.ham@maine.gov](mailto:eric.ham@maine.gov)) at least 2 weeks prior to installation of any cofferdams to coordinate fish evacuation.
9. The Contractor shall conduct all construction activities in accordance with the MaineDOT-approved Soil Erosion and Water Pollution Control Plan. In stream turbidity shall be visually monitored and all erosion controls will be inspected daily to ensure that the measures taken are adequate. If inspection shows that the erosion controls are ineffective, immediate action shall be taken to repair, replace, or reinforce controls as necessary.
10. For any required pumping operations, the contractor shall use a screen on each pump intake sufficiently large enough so that the approach velocity does not exceed 6.10 m sec-1 (0.20 ft sec-1). Square or round screen face openings are not to exceed 2.38 mm (3/32 in) on a diagonal. Criteria for slotted face openings

Town: Woolwich

WIN #: 23929.01

Date: 9/10/2021

- must not exceed 1.75 mm (approximately 1/16 in) in the narrow direction. These screen criteria follow NMFS guidelines (2008).
11. All areas of temporary waterways or wetland fill shall be restored to their original contour and character upon completion of the project. Temporary fill includes fill that received authorization and fill that mistakenly enters a resource (i.e., from slope failures, accidental broken sandbag cofferdams, miscellaneous construction materials, etc.)
  12. The contractor shall minimize vegetation clearing and soil disturbance adjacent to the waterway to the maximum extent practicable. Areas of disturbed soil adjacent to the waterways will be stabilized and re-vegetated with a seed mix appropriate for coastal areas in Maine.
  13. The contractor shall fully remove all cofferdams from the stream immediately following completion of in-stream work using techniques to minimize turbidity releases.
  14. Heavy construction equipment shall travel only over non-erodible stream substrate (e.g., ledge, cobble) and when approved by the MaineDOT Environmental Field Contact.
  15. Within vegetated wetland areas or soft substrate, the contractor shall use timber mats or similar protections to minimize damage to wetland soil or vegetation.
  16. No equipment, materials, or machinery shall be stored, cleaned, fueled, or repaired within any wetland or stream resource. These activities shall occur more than 100 feet from any wetland or stream resource and shall follow the specifications of the Soil Erosion and Water Pollution Control Plan (SEWPCP).
  17. All pumps and generators required for in-stream work shall be cleaned of external oil, grease, dirt, and mud such that turbid water does not drain to any wetland or stream. Any leaks of this equipment shall be fixed prior to entering streams or areas that drain directly to streams or wetlands. Operation shall follow the specifications of the SEWPCP

V. Approvals:

1. Temporary Soil Erosion and Water Pollution Control Plan
2. Permitted Resource Impacts (square feet), see ACOE permit for locations:

<u>Freshwater Wetland:</u>	<u>Coastal Wetland:</u>
<i>Permanent (PEM) – 10765.8</i>	<i>Permanent (EEM) – 3099.2</i>
<i>Permanent (PFO) – 321.8</i>	<i>Temporary (EEM) – 18,424.5</i>
<i>Temporary (PEM) – 15,872.1</i>	

VI. All activities are prohibited (including placement and removal of cofferdams unless otherwise permitted by Regulatory Agencies) below the normal high water mark if outside the prescribed in-water work window, except for the following:

1. Work within a cofferdam constructed according to MaineDOT's Standard Specifications and in adherence with the contractor's approved "Soil Erosion and Water Pollution Control Plan".

VII. No work is allowed that completely blocks a river, stream, or brook without providing downstream flow.

NOTE: Regulatory Review and Approval is required to modify the existing In-Water work window. Requests for work window extensions must be submitted to the MaineDOT Environmental Office. Approval of requests for work window extensions is not guaranteed and may result in delays in construction schedule that are the sole responsibility of the contractor.

**Woolwich, ME**  
**U.S. Route 1 – Pleasant Cove Bridge (#6667)**  
**Bridge Construction**  
**WIN 23929.01**

**GENERAL NOTE**

A review of the Maine Department of Environmental Protection (MDEP) File Room Database specific to Woolwich, ME indicates a documented vehicle collision/accident on the subject section of roadway. This accident resulted in significant discharges of diesel fuel, engine oil, and antifreeze. Although there was subsequent response and cleanup of the released products, there is the potential for these products to be present in the subsurface environment. In consideration of the existing environmental data, the Contractor shall remain alert for evidence of petroleum product and/or hazardous material contamination. In the event the Contractor encounters evidence of soil and/or groundwater contamination, the Contractor shall immediately stop work in the impacted area, secure the excavation, and notify the Resident. In addition, the Contractor shall employ appropriate health and safety measures to protect its workers against hazards associated with working near petroleum / hazardous materials impacted soil and/or groundwater. The Resident shall contact the Senior Geologist in MaineDOT's Environmental Office at 207-624-3000, and the MDEP at 800-482-0777. Work may only continue with authorization from the Resident.

# Shaded areas are Conceptual, ACOE Approval Pending 9/27/21,

Back River Creek Marsh

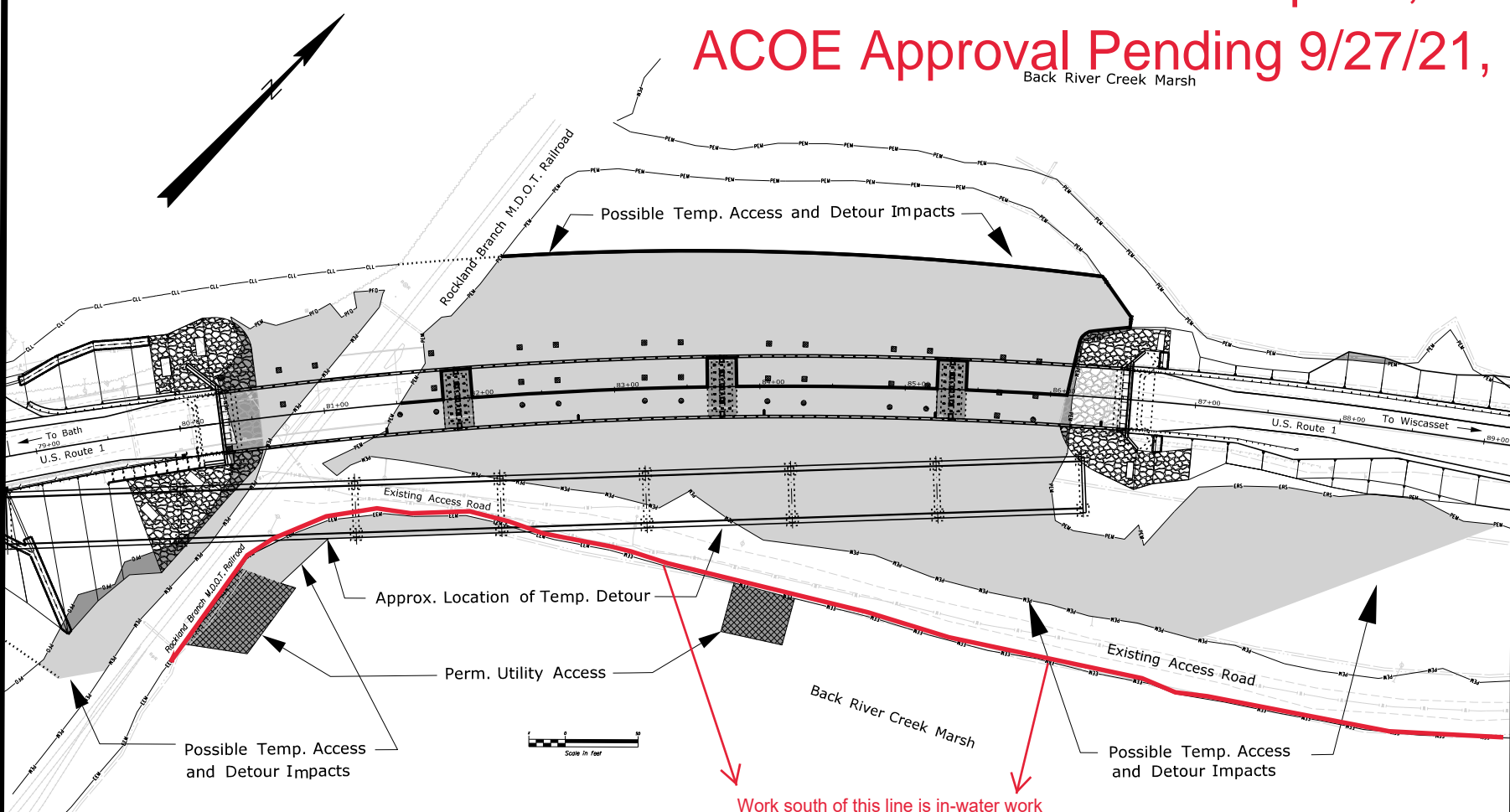
023929.00

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

Route 1  
CUMBERLAND COUNTY  
Woolwich

PLANS

SHEET NUMBER  
**1**  
OF 1



- - PERM. EEM IMPACTS (Utility Access) = 3,750± S.F.
- - PERM. PEM IMPACTS (3 new piers) = 2,460± S.F.
- - PERM. PEM IMPACTS (slope cuts/fills) = 3,725± S.F.
- - TEMP. PEM IMPACTS (temp detour/access) = 108,290± S.F.
- - TEMP. EEM IMPACTS (temp detour/access) = 2,800± S.F.
- ■ - PERM. RESTORATION (existing pier removal) = 450± S.F.

Work south of this line is in-water work

ITEM NO.	DESCRIPTION	UNIT	WIN 023929.00 Station 46	WIN 023929.01 Pleasant Cove	Total Qty
202.13	Removing Existing Railings, Retained by Department	LF	1290	0	1290
202.19	Removing Existing Bridge (Structural Steel = 500 T, Concrete 1300 CY)	LS	1	0	1
202.2006	Remove and Reset Gazebo	LS	1	0	1
202.202	Removing Pavement Surface	SY	490	400	890
203.20	Common Excavation	CY	3000	16600	19600
203.24	Common Borrow	CY	4050	470	4520
203.25	Gravel Borrow	CY	2200	480	2680
206.082	Structural Earth Excavation - Major Structures, Plan Quantity	CY	2600	580	3180
209.29	Vertical Drainage Works	LF	9	314600	314609
304.10	Aggregate Subbase Course - Gravel	CY	2400	31200	33600
403.2081	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Polymer Modified)	TON	520	710	1230
403.209	Hot Mix Asphalt 9.5 mm Nominal Maximum Size (sidewalks, drives, islands, & incidentals)	TON	65	3	68
403.2131	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base Course, Polymer Modified)	TON	1570	3030	4600
409.15	Bituminous Tack Coat, Applied	GAL	650	980	1630
461.131	Temporary Pavement	TON	360	500	860
501.239	Dynamic Load Test - Providing For	EA	5	2	7
501.46	Steel H-beam Piles 73lb/ft, delivered	LF	0	1190	1190
501.461	Steel H-beam Piles 73lb/ft, in place	LF	0	1190	1190
501.54	Steel H-beam Piles 117 lb/ft, delivered	LF	7180	0	7180
501.541	Steel H-beam Piles 117 lb/ft, in place	LF	7180	0	7180
501.90	Pile Tips	EA	77	14	91
501.91	Pile Splices	EA	175	28	203
501.92	Pile Driving Equipment Mobilization	LS	0.5	0.5	1
502.219	Structural Concrete, Abutments and Retaining Walls (1,285 CY)	LS	0.86	0.14	1
502.22	Structural Concrete Abutments (placed under water)	CY	930	0	930
502.239	Structural Concrete Piers (570 CY)	LS	1	0	1
502.24	Structural Concrete Piers (placed under water)	CY	790	0	790
502.26	Structural Concrete Roadway and Sidewalk Slab on Steel Bridges (740 CY)	LS	0	0	0
502.261	Structural Concrete Roadway and Sidewalk Slab on Concrete Bridges (115 CY)	LS	0	1	1
502.31	Structural Concrete Approach Slab (60 CY)	LS	0.5	0.5	1
502.49	Structural Concrete Curbs and Sidewalks (92 CY)	LS	0.86	0.14	1
502.77	FRP Bridge Drain - Type G	EA	6	0	6
503.12	Reinforcing Steel, Fabricated and Delivered	LB	84900	0	84900
503.13	Reinforcing Steel, Placing	LB	84900	0	84900
503.17	Mechanical Welded Splice	EA	318	0	318
503.26	Stainless Steel Reinforcement, Fabricated and Delivered	LB	385800	67700	453500
503.27	Stainless Steel Reinforcement, Placing	LB	385800	67700	453500
504.702	Structural steel fabricated and delivered, welded (1,490,000 lbs)	LS	1	0	1
504.71	Structural steel erection (1,490,000 lbs)	LS	1	0	1
505.08	Shear Connectors (9520 EA)	LS	1	0	1
506.9104	Thermal Spray Coating - Shop Applied	LS	1	0	1
507.0821	Steel Bridge Railing, 3 Bar (1426 LF)	EA	4	4	8
507.0822	Steel Approach Railing, 3 Bar	EA	4	4	8
508.14	High Performance Waterproofing Membrane (3150 SY)	LS	0.87	0.13	1
510.10	Special Detour, 32' Roadway Width Vehicular and Pedestrian Traffic Not Separated (Station 46)	LS	1	0	1
510.10	Special Detour, 32' Roadway Width Vehicular and Pedestrian Traffic Not Separated (Pleasant Cove)	LS	0	1	1
511.07	Cofferdam (Abutment 1)	LS	1	0	1
511.07	Cofferdam (Pier 1)	LS	1	0	1
511.07	Cofferdam (Pier 2)	LS	1	0	1
511.07	Cofferdam (Pier 3)	LS	1	0	1
511.07	Cofferdam (Abutment 2)	LS	1	0	1
511.07	Cofferdam (Abutment 1)	LS	0	1	1
511.07	Cofferdam (Abutment 2)	LS	0	1	1
512.081	French Drains (170 LF)	LS	1	0	1
515.21	Protective Coating for Concrete Surfaces (770 SY)	LS	0.86	0.14	1
520.21	Expansion Device - Gland Seal (90 LF)	EA	2	0	2
523.52	Bearing Installation	EA	25	0	25
523.5551	Pat or Disc Bearings, Fixed	EA	3	0	3
523.5552	Pat or Disc Bearings, Expansion	EA	22	0	22
524.40	Protective Shield (1,950 SY)	LS	1	0	1
526.301	Portable Concrete Barrier, Type I (210LF)	LS	0.62	0.38	1
527.34	Work Zone Crash Cushion	UNIT	4	4	8
535.61	Prestressed Structural Concrete I-Girders (433 LF)	LS	1	0	1
603.17	18 Inch Culvert Pipe Option I	LF	88	0	88
603.179	18 Inch Culvert Pipe Option III	LF	45	0	45
603.2891	96 inch Reinforced Concrete Pipe Class III	LF	0	16	16
604.092	Catch Basin Type B1-C	EA	3.7	0	3.7
605.11	12 inch Underdrain Type C	LF	190	0	190
605.12	15 inch Underdrain Type C	LF	340	0	340
606.1301	31" W-Beam Guardrail - Mid-Way Splice - Single Faced	LF	330	1400	1730
606.1303	31" W-Beam Guardrail - Mid-Way Splice, 15' Radius and Less	LF	0	25	25
606.1304	31" W-Beam Guardrail - Mid-Way Splice, Over 15' Radius	LF	25	72	97
606.1305	31" W-Beam Guardrail - Mid-Way Splice Flared Terminal	EA	0	4	4
606.1306	31" W-Beam Guardrail - Mid-Way Splice Tangent Terminal	EA	1	0	1
606.1721	Bridge Transition Type I	EA	4	4	8
606.259	Anchorage Assembly	EA	1	1	2
606.353	Reflectorized Flexible Guardrail Marker	EA	3	12	15
606.356	Underdrain Delineator Post	EA	1	0	1
606.78	Low Volume Guardrail End	EA	0	1	1
607.183	Chain Link Snow Fence, 33' (96 LF)	LS	1	0	1
609.31	Curb Type 3	LF	570	0	570
610.08	Plain Riprap	CY	850	1750	2600
610.18	Stone Ditch Protection	CY	32	0	32
613.319	Erosion Control Blanket	SY	360	810	1170
615.07	Loam	CY	150	310	460
618.14	Seeding Method Number 2	UNIT	24	50	74
619.12	Mulch	UNIT	24	50	74
619.14	Erosion Control Mix	CY	300	600	900
620.58	Erosion Control Geotextile	SY	2200	2300	4500
620.66	Drainage Geocomposite	SY	0	93	93
626.421	24-inch Diameter Foundation	LF	14	0	14

ITEM NO.	DESCRIPTION	UNIT	WIN 023929.00 Station 46	WIN 023929.01 Pleasant Cove	Total Qty
627.733	4" White or Yellow Painted Pavement Marking Line	LF	4700	5200	9900
627.75	White or Yellow Pavement & Curb Marking	SF	84	780	864
627.77	Removing Existing Pavement Marking	SF	0	1850	1850
627.78	Temporary Pavement Marking Line, White or Yellow	LF	4800	8500	13300
629.05	Hand Labor, Straight Time	HR	40	20	60
631.10	Air Compressor (including operator)	HR	20	10	30
631.11	Air Tool (including operator)	HR	20	10	30
631.12	All Purpose Excavator (including operator)	HR	40	20	60
631.14	Grader (including operator)	HR	20	10	30
631.172	Truck-Large (including operator)	HR	20	20	40
631.22	Front End Loader (including operator)	HR	20	10	30
631.32	Culvert Cleaner (including operator)	HR	20	10	30
634.160	Highway Lighting	LS	1	0	1
639.18	Field Office, Type A	EA	0.5	0.5	1
639.26	Instrumentation - Geotechnical	LS	0	1	1
643.72	Temporary Traffic Signal at: Route 1 and Nequasset Road	LS	0	1	1
645.292	Regulatory, Warning, Confirmation and Route Marker Assembly Signs Type II	SF	7	25	32
652.312	Type III Barricades	EA	4	4	8
652.33	Drum	EA	40	25	65
652.34	Cone	EA	40	25	65
652.35	Construction Signs	SF	230	370	600
652.361	Maintenance of Traffic Control Devices	LS	0.5	0.5	1
652.38	Flaggers	HR	600	450	1050
656.75	Temporary Soil Erosion and Pollution Control	LS	0.5	0.5	1
659.10	Mobilization	LS	0.8	0.2	1
ITEMS SPECIFIC TO RETAINING WALL BID ALTERNATES (BID ONE)					
674.10	Prefabricated Concrete Modular Gravity Wall	SF	1700	0	1700
677.20	MSE Wall	SF	1700	0	1700

BATH WATER DISTRICT					
ITEM NO.	DESCRIPTION	UNIT	WIN 023929.00 Station 46	WIN 023929.01 Pleasant Cove	Total Qty
502.565	Concrete Fill	CY	3	0	3
803.01	Test Pits	EA	2	0	2
822.3152	16x6 Tapping Sleeve and Valve	EA	1	0	1
822.322	6-Inch Ductile Iron Pipe	LF	5	0	5
822.3701	16-Inch Ductile Iron Water Main	LF	40	0	40
823.3113	16" Insertion Valve and Valve Box	EA	1	0	1
824.3010	Hydrant Assembly	EA	1	0	1
825.33	1" Corporation Stop	EA	1	0	1
825.331	1" Curb Stop	EA	1	0	1
825.43	1" Copper Service Pipe	LF	6	0	6
825.64	20" HDPE Pipe	LF	250	0	250
827.33	Trench Insulation	LF	40	0	40

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
**2392900**  
WIN 23929.00 & 23929.01  
BRIDGE NO. 3039 & 6667  
BRIDGE PLANS

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STATION 46 & PLEASANT COVE BRIDGES  
KENNEBEC RIVER ESTUARY  
WOOLWICH SAGadahoc COUNTY  
**ESTIMATED QUANTITIES**

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SHEET NUMBER  
**2**  
OF 183

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PROJ. MANAGER	D. Eaton, P.E.	BY	P. Bishop	DATE	08/21
CHECKED-DETAILED	B. Greiner	CHECKED-REVIEWED	T. Cote	SIGNATURE	
DESIGNS DET AILED	L. Driscoll	DESIGNS DET AILED		P.E. NUMBER	
REVISIONS 1		Updated Quantities		DATE	
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					



**PIER NOTES**

1. Reinforcing steel shall have a minimum concrete cover of 3 inches unless otherwise noted.
2. The pier bearing pedestal elevations shown are based on bearing heights presented on the "BEARING DETAILS" sheet. Adjustments to the pedestal elevations, if necessary, shall be made in accordance with Note 1 on the "BEARING LAYOUT" sheet.

**PILE NOTES**

1. The maximum factored pile load at the controlling Limit State and required nominal resistance (Rn) are as follows:

Pier No. 1: 286 kips (Rn = 440 kips) (Strength I)  
 Pier No. 2: 524 kips (Rn = 524 kips) (Extreme Event II)  
 Pier No. 3: 362 kips (Rn = 557 kips) (Strength I)

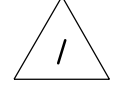


2. Estimate of piles required:

Pier No. 1: 28-HP 14 x 117 @ 40 ft  
 Pier No. 2: 28-HP 14 x 117 @ 115 ft  
 Pier No. 3: 28-HP 14 x 117 @ 136 ft

The order lengths of piles shall include an additional 5 feet of length for each test pile to accommodate dynamic pile testing equipment and an additional 10 feet of length for variable bedrock.

3. Piles marked with an arrow shall be battered in the direction of the arrow as follows and as indicated on sheets 124 and 128:

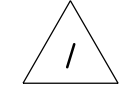


Pier No. 1: 4 in/ft in the transverse direction and 2 in./ft. in the longitudinal direction  
 Pier No. 2: 3 in/ft

4. The Contractor shall submit to the Department, for review and acceptance, their proposed pile driving equipment with a compiled "Pile and Driving Equipment Data Form," Figure 1, of Standard Section 501 - Foundation Piles. Approval of the proposed pile driving equipment by the Department will be based on Department - conducted wave equation analyses and the criteria specified in Section 501 and Subsection 501.042, Equipment for Driving Piles. If the Department - conducted wave equation analyses show that the proposed driving system(s) is unacceptable, the Contractor shall modify or replace the proposed driving equipment in an amendment of the QCP, at their own expense, until subsequent wave equation analyses by the Department indicate the pile can be driven to the required resistance, without damage or excessive blows.

5. The Contractor shall provide access for the agents of the Department to perform five (5) dynamic load test with signal matching and restrrike, as specified in Special Provision 501 - Dynamic Load Test, to confirm the nominal resistance of the piles. The dynamic pile load tests will be completed on the first battered and first plumb production piles driven at Pier 1 and Pier 2, and on one plumb pile at pier 3. The required nominal resistances for the piles at Pier 1 and Pier 3 are the maximum factored axial pile load divided by 0.65 for the controlling Strength Limit State. The required nominal resistance for the piles at Pier 2 is the factored axial pile load divided by 1.0 for the controlling Extreme Limit State. The Contractor may drive production piles to the preliminary driving criteria, however pile cut-off will not be permitted until completion of restrrike testing and establishment of final driving criteria.

6. All piles shall be equipped with an APF HP-77600 Hard Bite cast steel pile tip (or equivalent) installed in accordance with 501.048, Prefabricated Pile Tips.



7. H-pile material shall be ASTM A572, Grade 50.
8. H-pile splices shall be in accordance with Standard Detail 50(03).

**SEAL COFFERDAM NOTES:**

1. When sheet piling is used for seal cofferdams, appropriate rolled corners shall be used, and the inside face of the sheet piling shall be at or outside of the seal concrete dimensions shown.
2. The seal concrete placement dimensions shown represent the minimum seal size necessary to meet design requirements and are not based on the use of any particular sheet pile section.
3. The horizontal Pay Limit for seal concrete will be to the dimensions shown on the Plans. No additional payment will be made for concrete placed outside these Limits.
4. The depth of seal is set for a water elevation of 4.7 (MHW + Storm Surge). If the water elevation at the time of construction is higher, the depth of seal shall be adjusted.

**PIER DESIGN CRITERIA**

1. Controlling AASHTO Load Combination - Extreme Event I Limit State.
2. Buoyancy - Water level assumed at Elevation 4.3.
3. Stream flow - Velocity of 0.1 fps skewed at 0 degrees to longitudinal centerline of pier.
4. Wind - 115 mph or 0.051 ksf, Strength III Limit State.
5. Seismic Zone 2 for Extreme Event I Limit State.

S<sub>w</sub> = 0.35  
 S<sub>s</sub> = 0.190

Date: 9/2/2021

Username:

Division:

Filename: 123\_Pier Notes.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2392900
WIN
23929.00
BRIDGE NO. 3039
BRIDGE PLANS

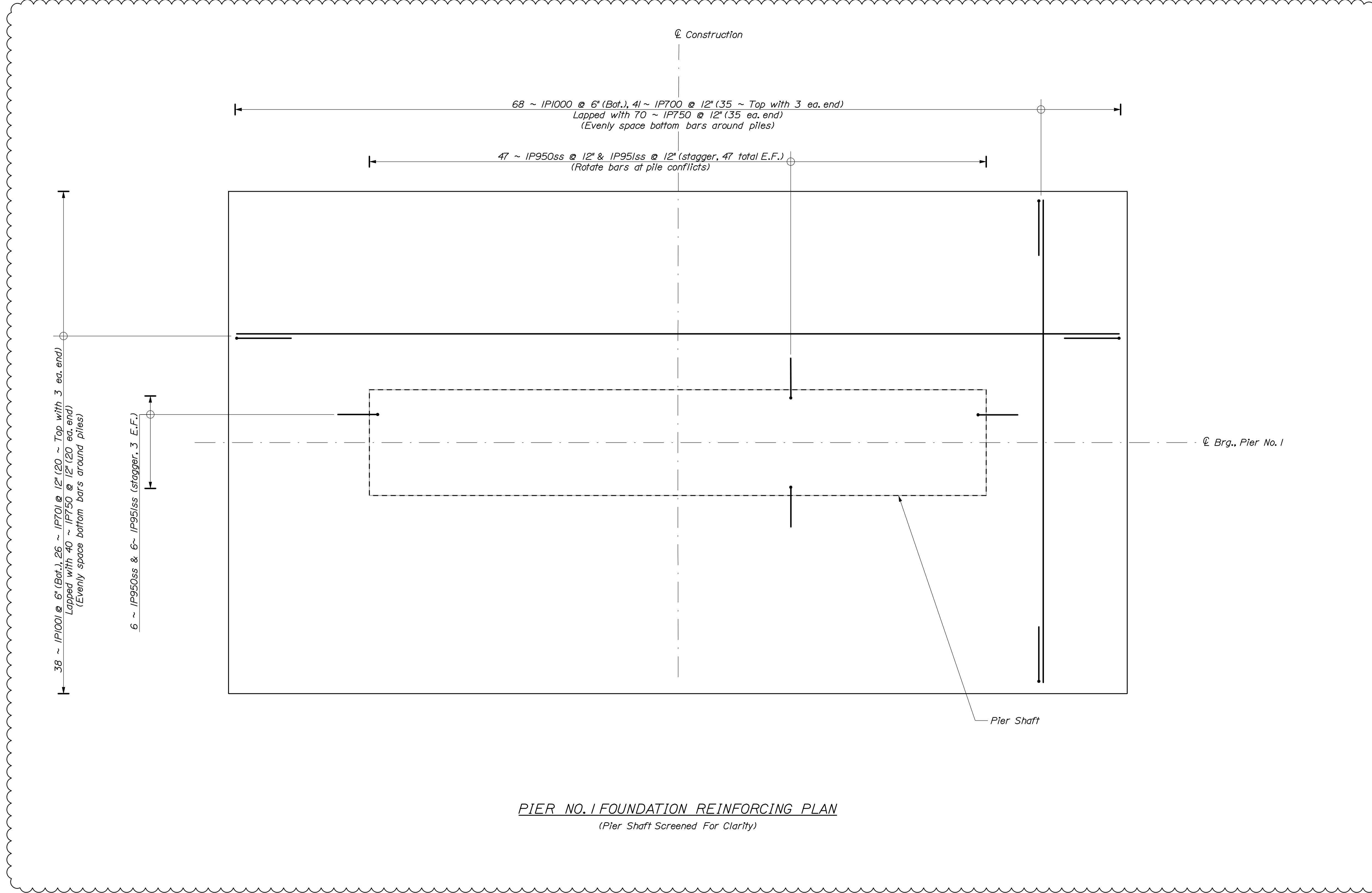
PROJ. MANAGER	D. Eaton, P.E.	BY	DATE
DESIGN-DETAILED	Y. Papp	P. Bishop	08/21
CHECKED-REVIEWED	K. Brody	T. Cole	08/21
DESIGN-DETAILED			
REVISIONS 1	Pile Notes		08/21
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	DATE
P.E. NUMBER	

STATION 46 BRIDGE
KENNEBEC RIVER ESTUARY
WOOLWICH SAGadahoc COUNTY
PIER NOTES

SHEET NUMBER
123
OF 183





**PIER NO. 1 FOUNDATION REINFORCING PLAN**  
 (Pier Shaft Screened For Clarity)

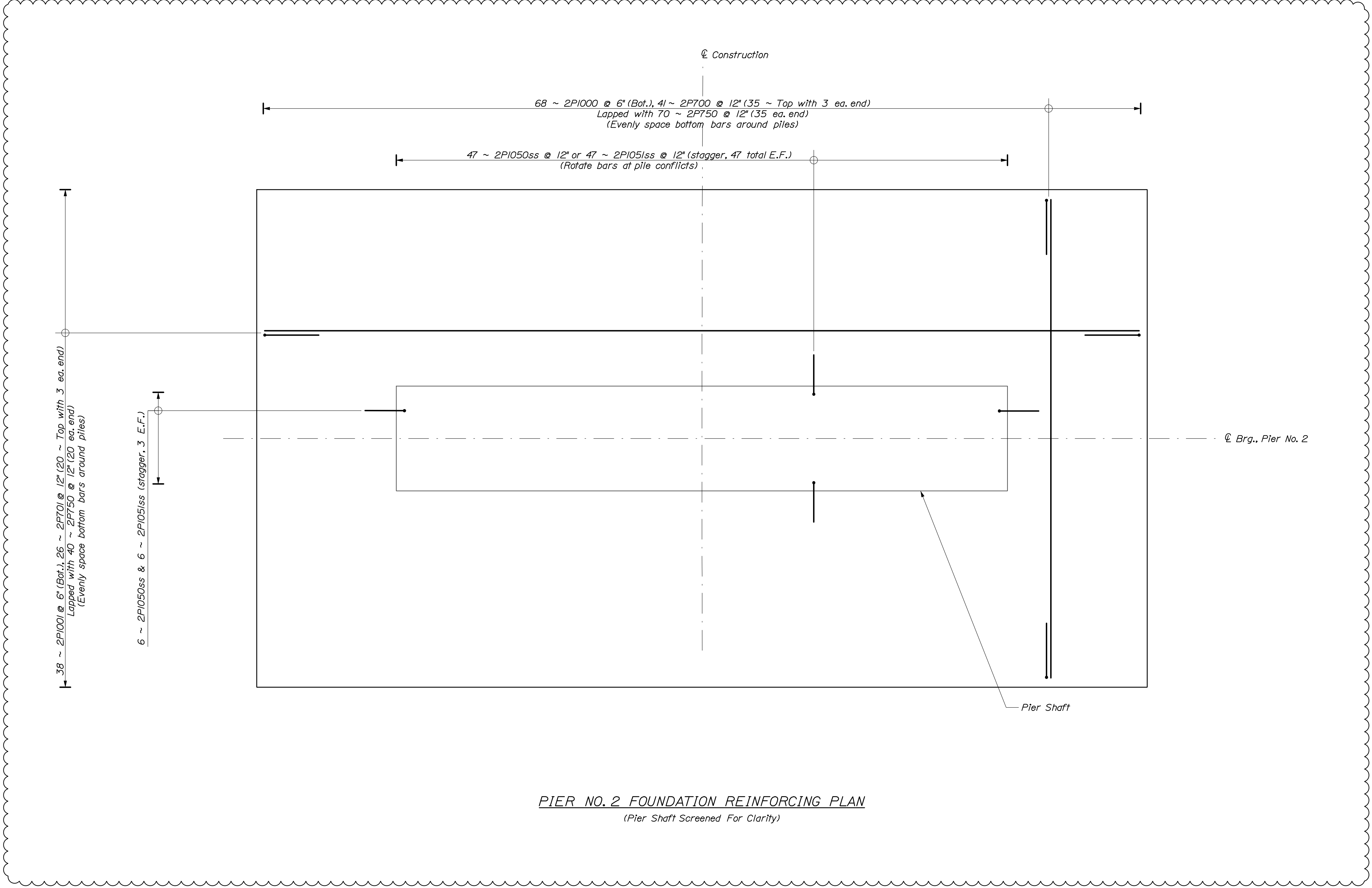


STATE OF MAINE DEPARTMENT OF TRANSPORTATION <b>2392900</b>		BRIDGE NO. 3039 <b>WIN</b> 23929.00		BRIDGE PLANS	
STATION 46 BRIDGE KENNEBEC RIVER ESTUARY WOOLWICH SAGadahoc COUNTY		PIER NO. 1 FOUNDATION REINF. PLAN		SHEET NUMBER	
PROJ. MANAGER		D. Eaton, P.E.		BY	
DESIGN/DETAILED		Y. Papp		P. Bishop	
CHECKED/REVIEWED		K. Brody		T. Cole	
DESIGN/DETAILED					
REVISIONS 1		Reinforcing		08/21	
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					
DATE		DATE		SIGNATURE	
DATE		DATE		P.E. NUMBER	
DATE		DATE		DATE	

125

OF 183

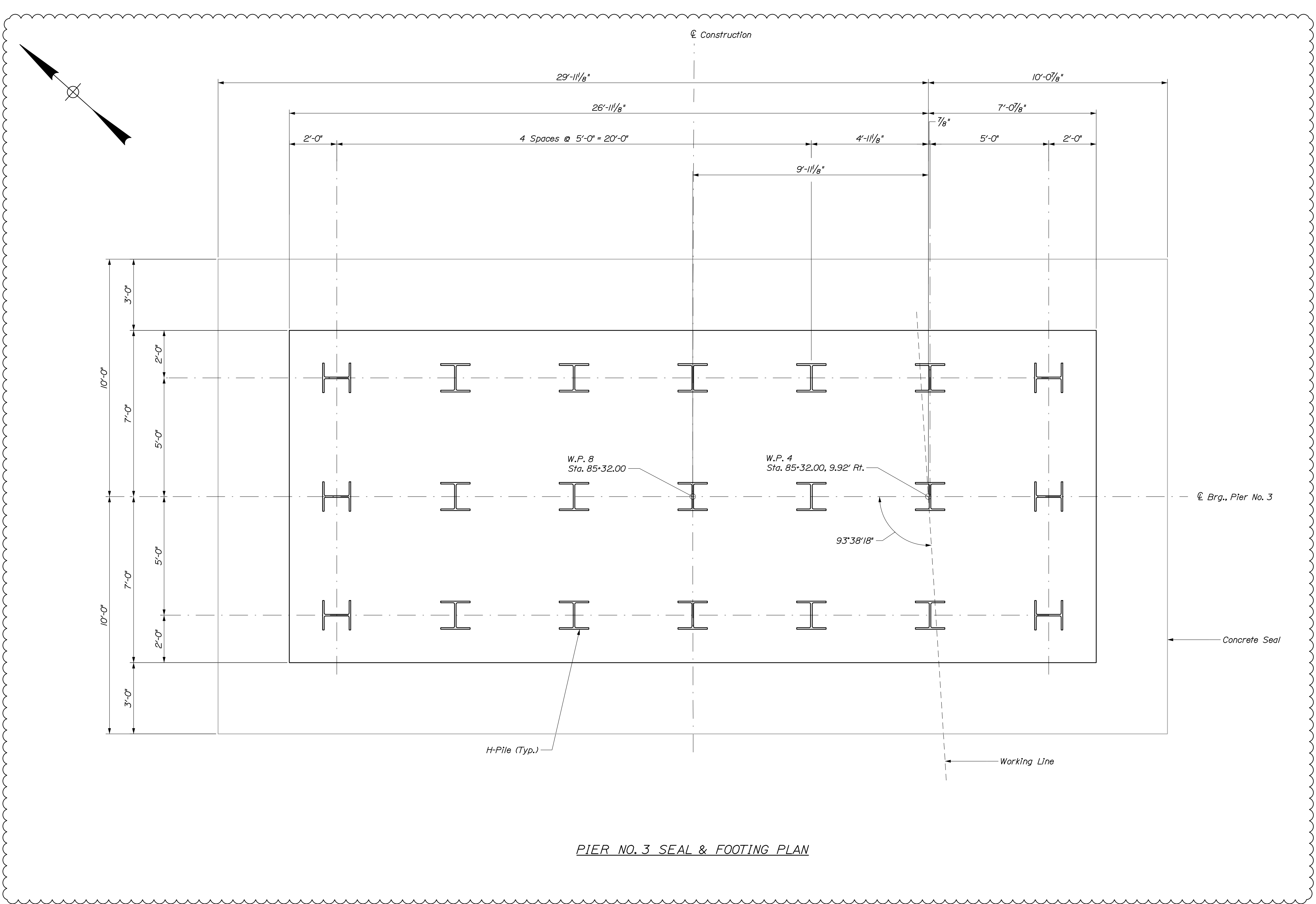




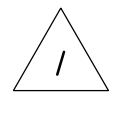
**PIER NO. 2 FOUNDATION REINFORCING PLAN**  
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STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2392900	
PROJECT MANAGER		DESIGN-DETAILED		DATE	
D. Eaton, P.E.		Y. Piro		08/21	
CHECKED-REVIEWED		DESIGN-REVIEWED		DATE	
K. Brody		T. Cole		08/21	
DESIGN-DETAILED		DESIGN-REVIEWED		DATE	
REVISIONS 1		REINFORCING		P.E. NUMBER	
REVISIONS 2				DATE	
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					
STATION 46 BRIDGE		KENNEBEC RIVER ESTUARY		BRIDGE NO. 3039	
WOOLWICH		SAGadahoc COUNTY		WIN	
PIER NO. 2		FOUNDATION REINF. PLAN		23929.00	
SHEET NUMBER		129		BRIDGE PLANS	
		OF 183			

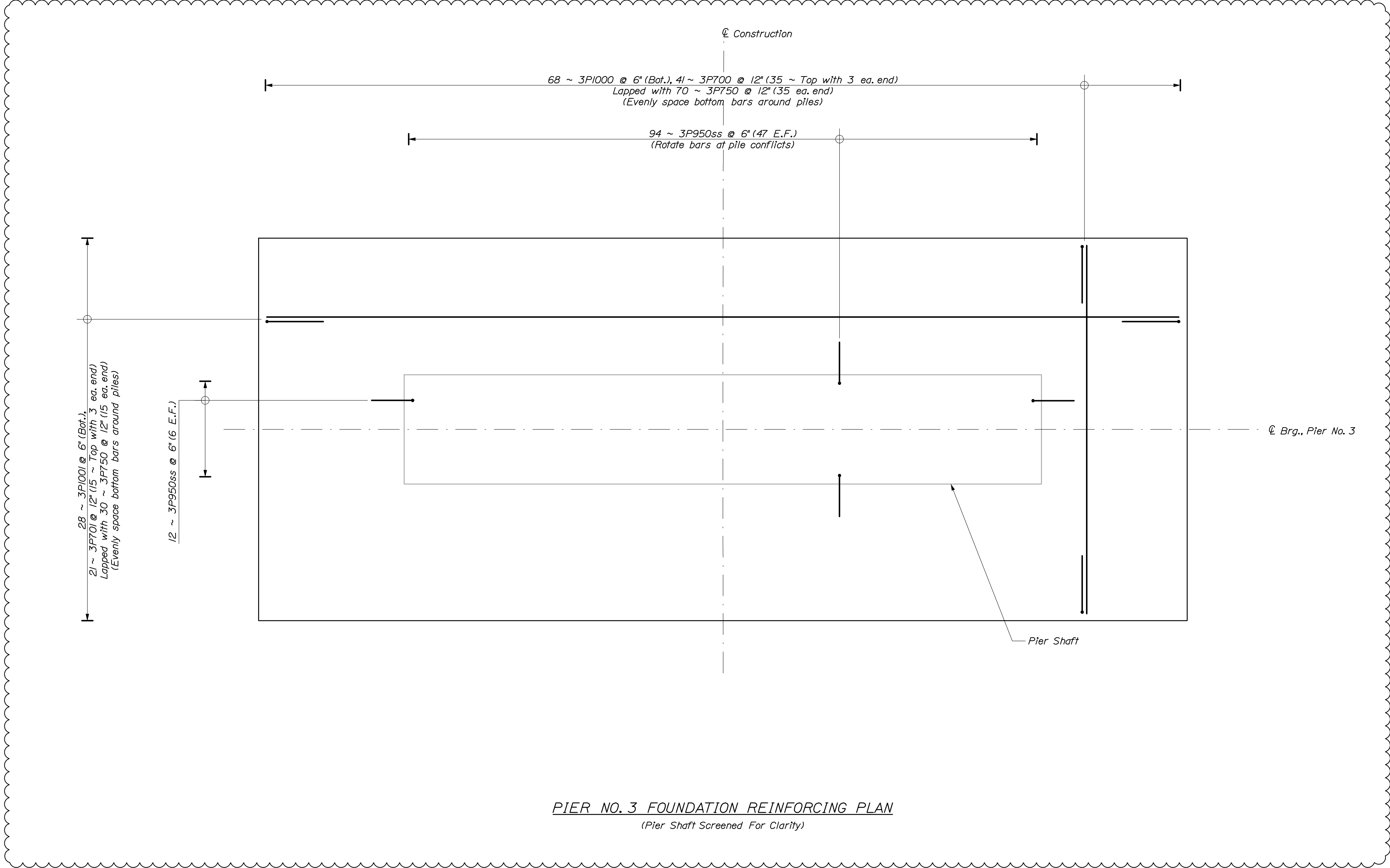




PIER NO. 3 SEAL & FOOTING PLAN



STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2392900		BRIDGE NO. 3039 WIN 23929.00 BRIDGE PLANS	
STATION 46 BRIDGE KENNEBEC RIVER ESTUARY WOOLWICH SAGADAHOE COUNTY PIER NO. 3 SEAL AND FOOTING PLAN		PROJ. MANAGER D. Eaton, P.E.	BY P. Bishop T. Cole
DESIGN DETAILED Y. Piro	DATE 08/21	CHECKED/REVIEWED K. Brody	SIGNATURE
DESIGN DETAILED		DESIGN DETAILED	
REVISIONS 1	Revised File Layout	REVISIONS 1	P.E. NUMBER
REVISIONS 2		REVISIONS 2	DATE
REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES	
SHEET NUMBER <b>132</b> OF 183		HNTB	

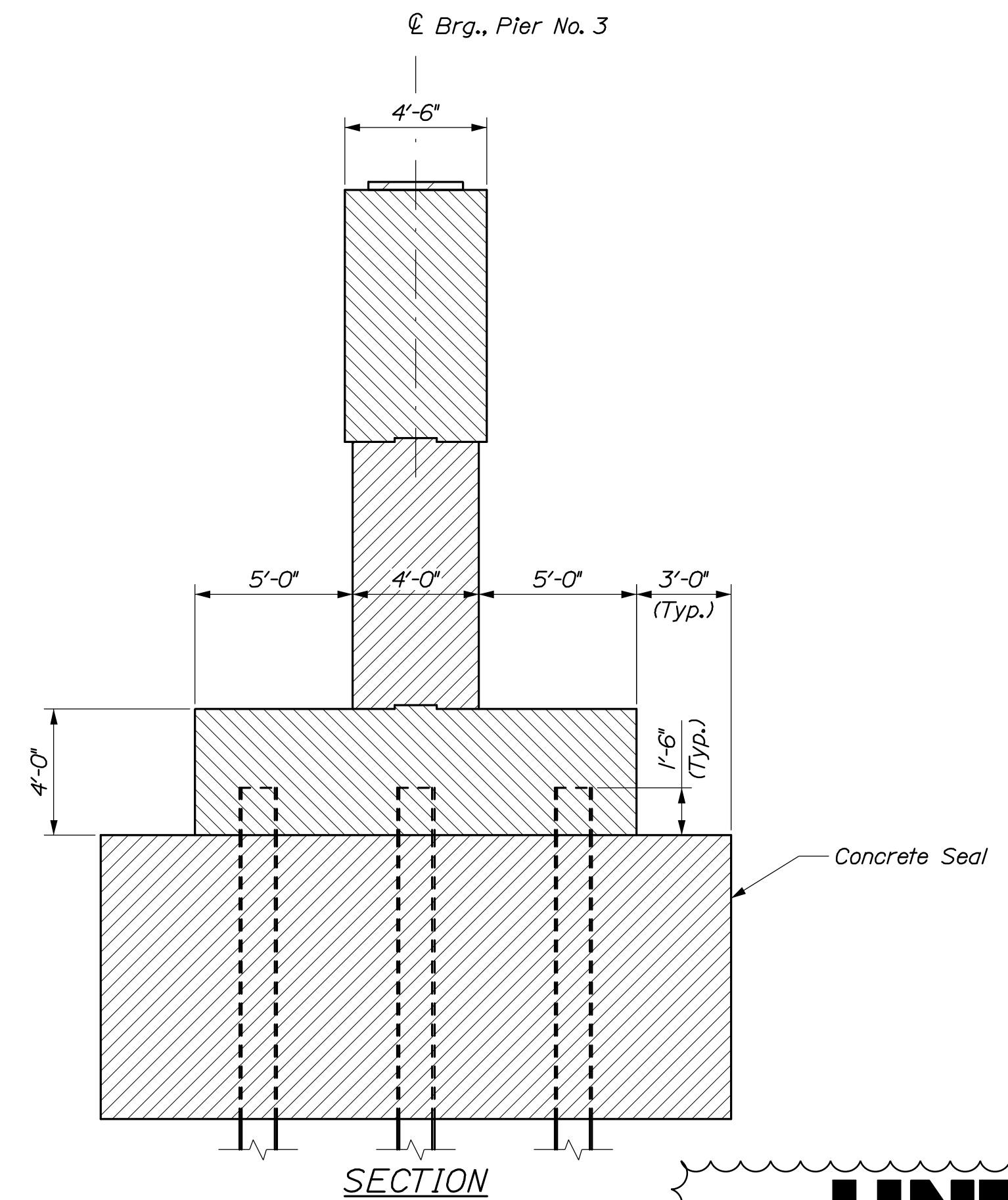
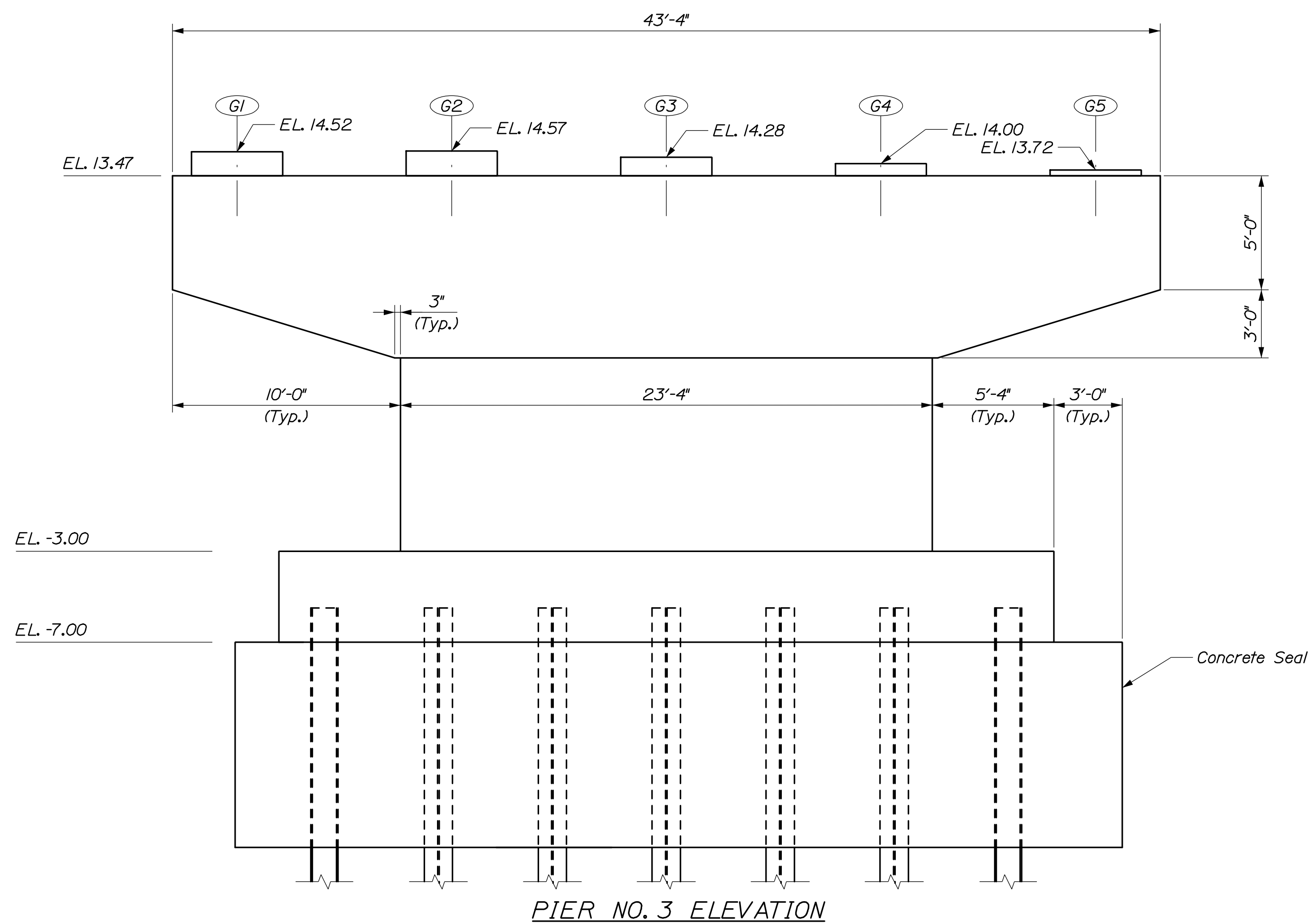
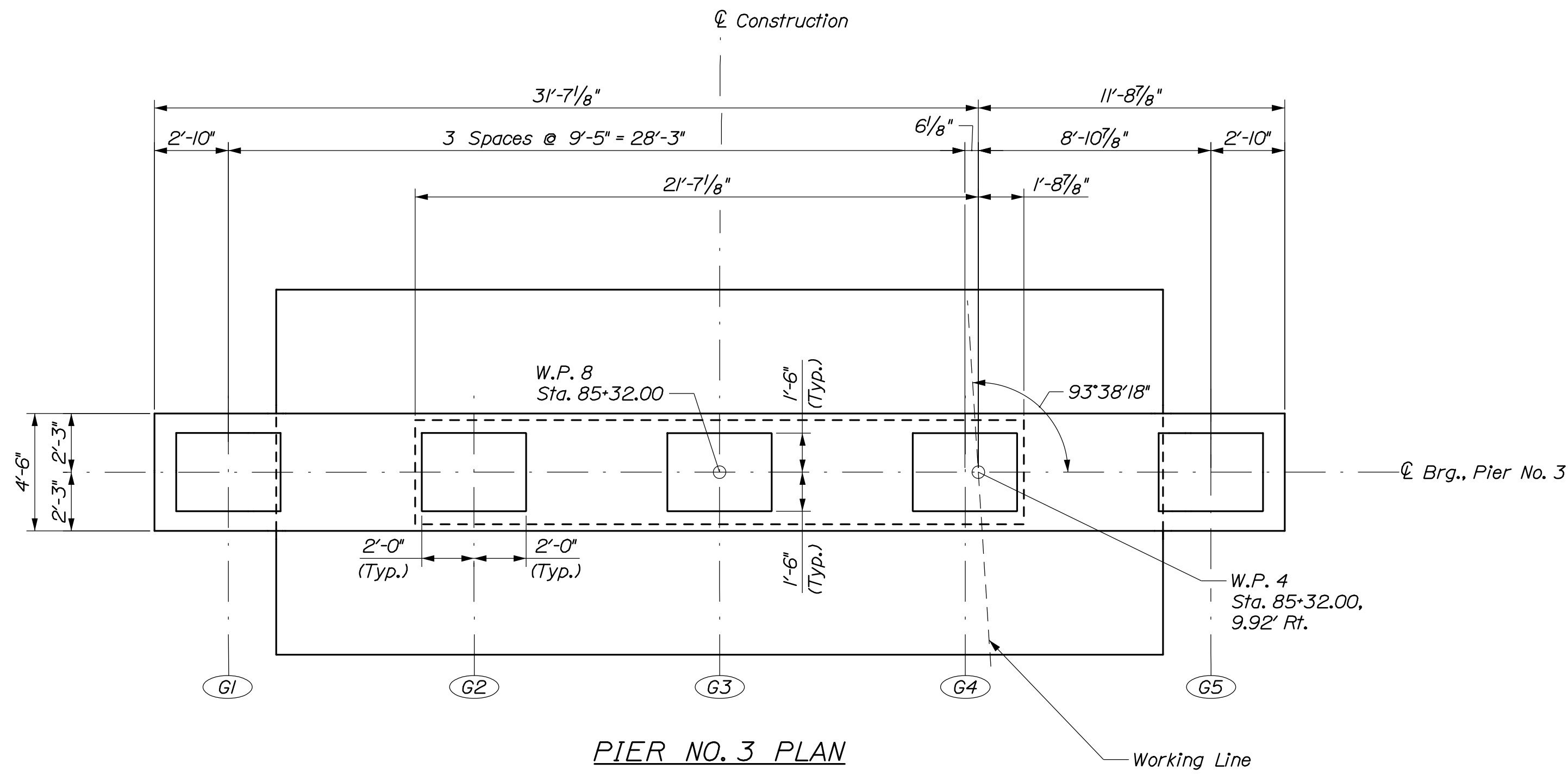


**PIER NO. 3 FOUNDATION REINFORCING PLAN**  
 (Pier Shaft Screened For Clarity)



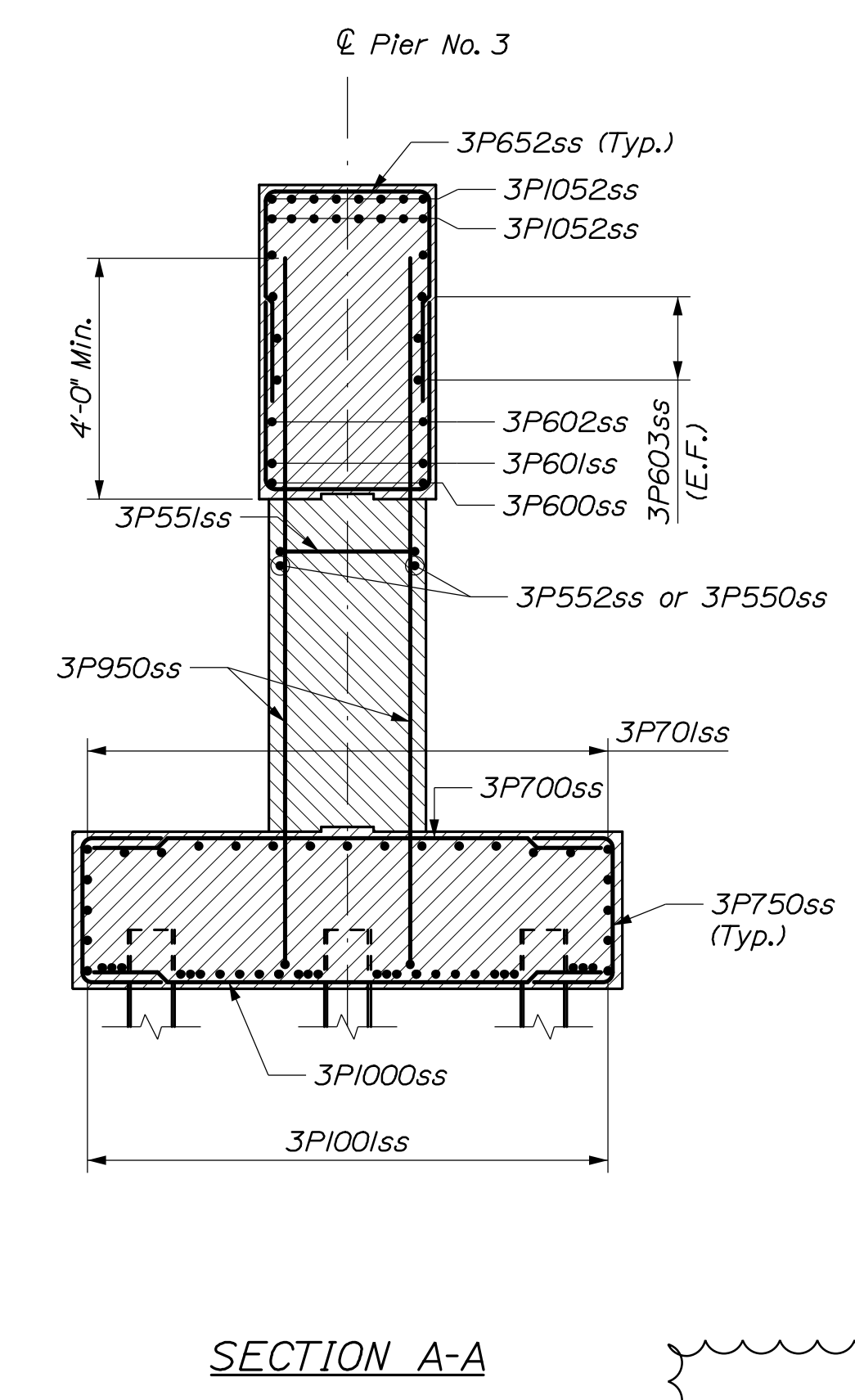
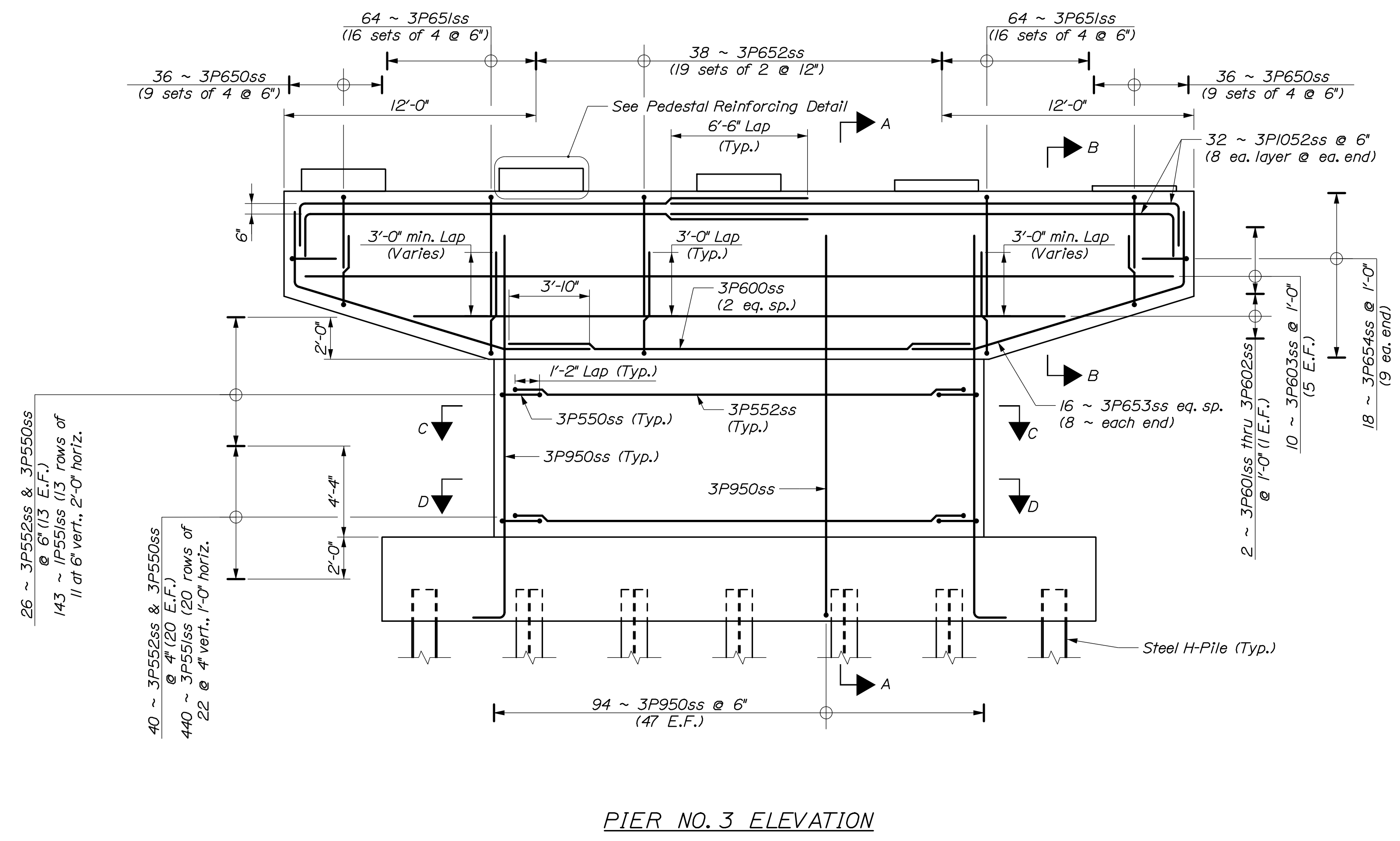
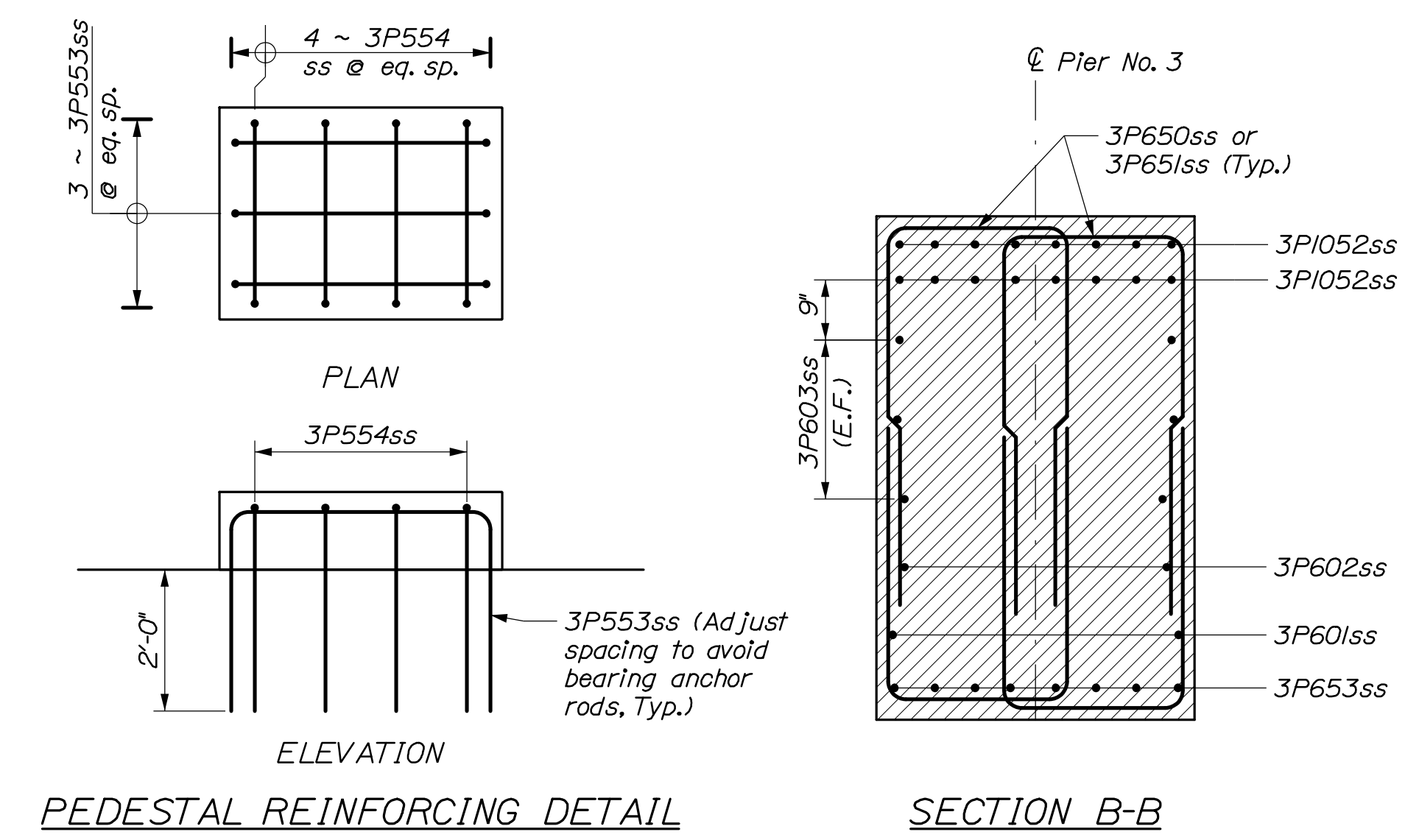
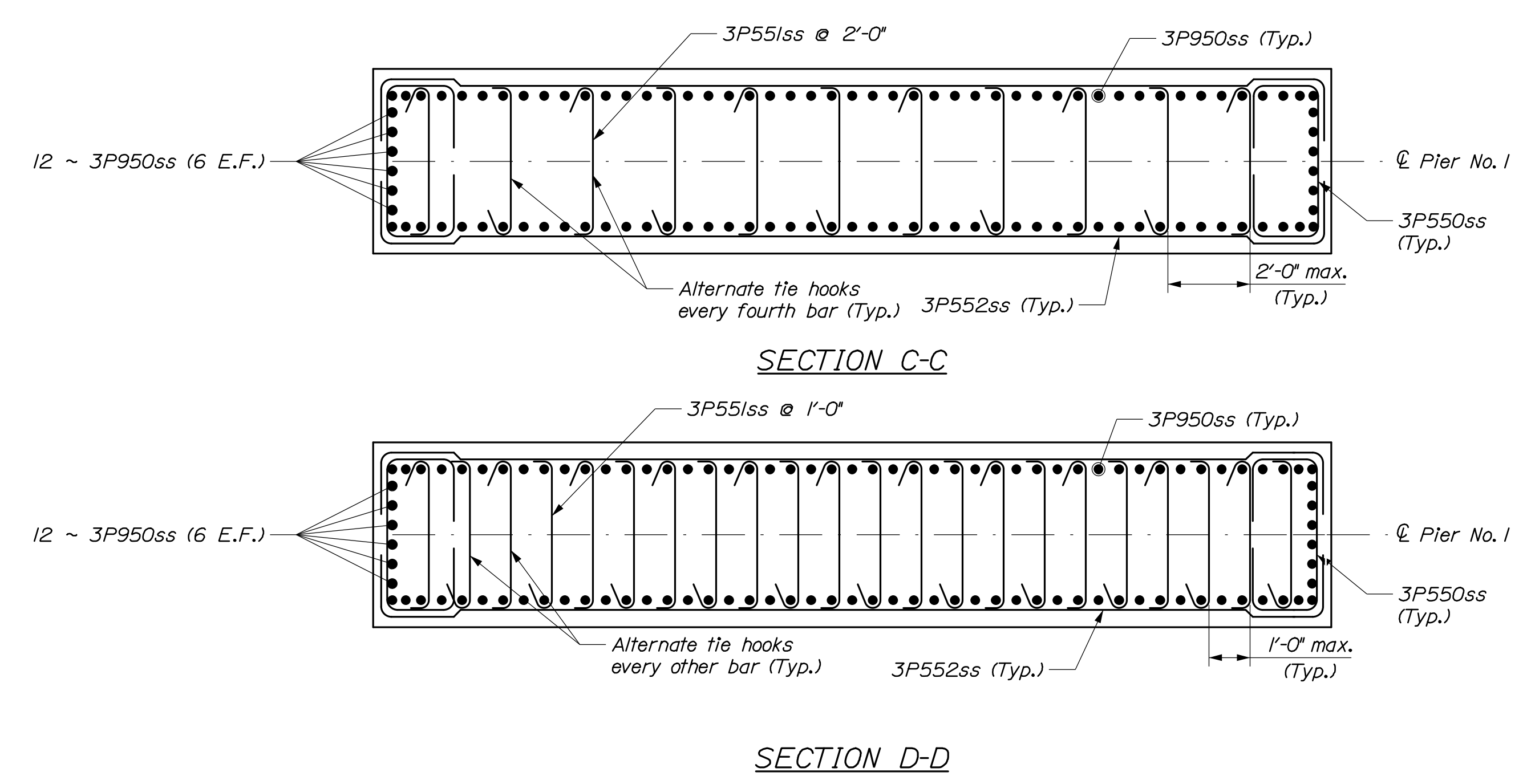
STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2392900		BRIDGE NO. 3039 WIN 23929.00 BRIDGE PLANS	
PROJ. MANAGER	D. Eaton, P.E.	BY	DATE
DESIGN DETAILED	Y. Papp	P. Bishop	08/21
CHECKED/REVIEWED	K. Brody	T. Cole	08/21
DESIGN DETAILED			SIGNATURE
REVISIONS 1	Footing Layout		P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
STATION 46 BRIDGE KENNEBEC RIVER ESTUARY WOOLWICH SAGadahoc COUNTY PIER NO. 3 FOUNDATION REINF. PLAN		SHEET NUMBER <b>133</b> OF 183	

1



PROJ. MANAGER	D. Eaton, P.E.	BY	DATE
DESIGN DETAILED	Y. Papp	P. Bishop	08/21
CHECKED/REVIEWED	K. Bradley	T. Cole	08/21
DESIGN DETAILED			
REVISIONS 1	Footings and Pile Layout		08/21
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			





STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2392900	
Woolwich		BRIDGE NO. 3039	
STATION 46 BRIDGE KENNEBEC RIVER ESTUARY SAGadahoc COUNTY		PIER NO. 3 REINFORCING	
PROJ. MANAGER	D. Eaton, P.E.	BY	P. Bishop
DESIGN-DETAILED	Y. Papp	CHECKED-REVIEWED	T. Cole
DESIGNS DET AILED	K. Brodsky	DESIGNS DET AILED	
REVISIONS 1	Footing and Pier Layout	DATE	08/21
REVISIONS 2		DATE	
REVISIONS 3		DATE	
REVISIONS 4		DATE	
FIELD CHANGES		DATE	

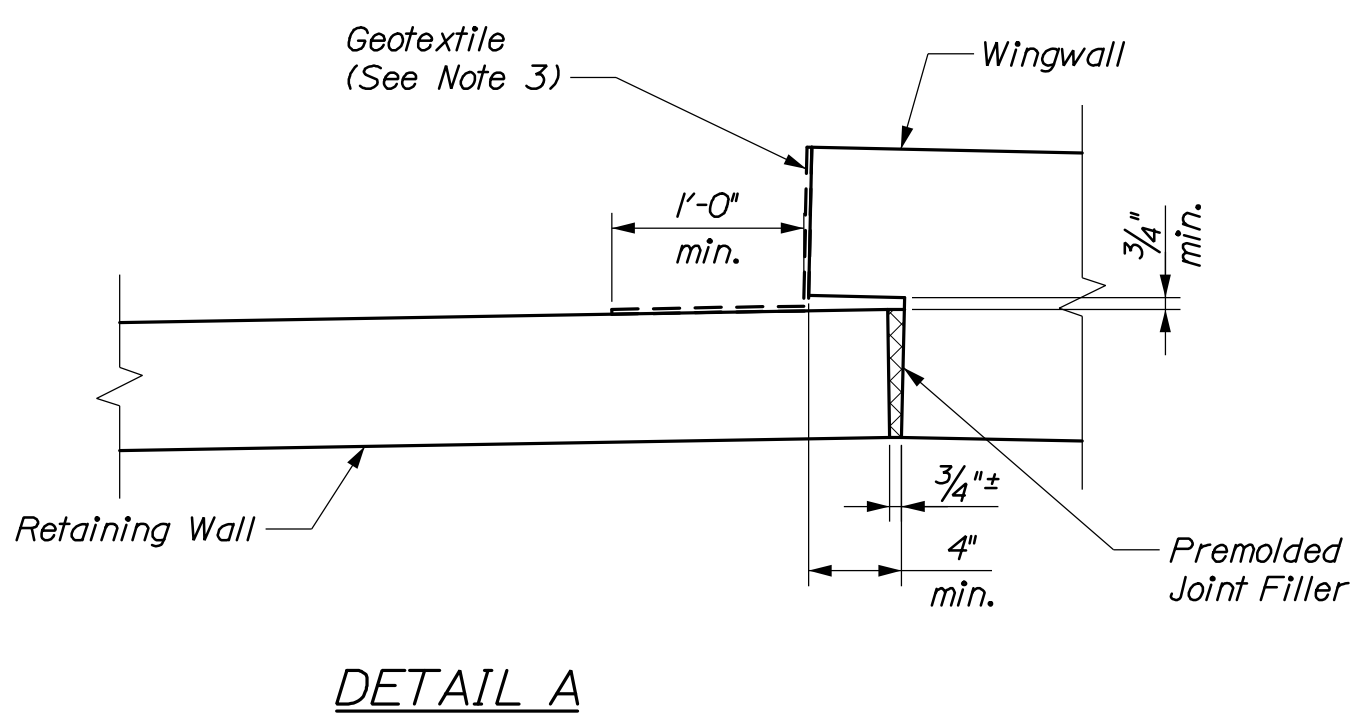
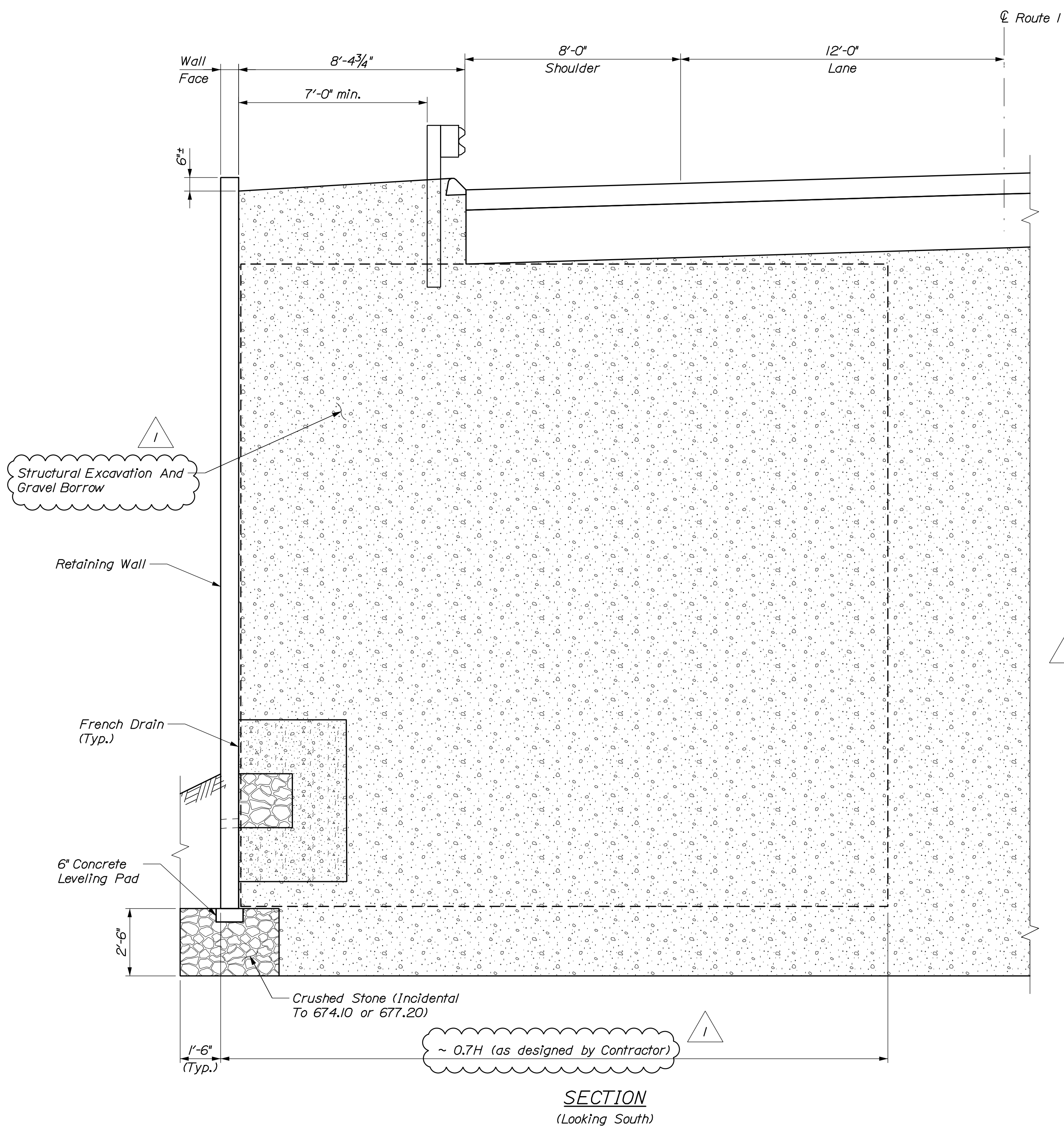


Date: 9/24/2021

Username:

Division:

Filename: 137\_Retaining Wall - Details 1.dgn



**NOTES:**

- Contractor shall select and design wall type based on geometry and allowable bearing pressures provided on these plans. Plans and details are provided for estimating purposes only. Wall type shall be one of the following: Precast Concrete Modular Gravity Wall (PCMG) or Mechanically Stabilized Earth (MSE) wall. Contractor shall submit bid based on one wall type.
- Excavation shall be performed using care so as not to disturb the soft clays and silt where present.
- A geotextile separation fabric shall be placed over the prepared subgrade and crushed stone placed to the bottom of the retaining wall elevation. The geotextile shall be class 1 material conforming to Standard Specification 722.02. Wrap fabric around sides and over the top of the stone prior to placing. Work shall be considered incidental to selected wall type items.
- Nonwoven drainage geotextile and leveling pads shall be incidental to selected wall type items and shall meet the requirements of 722.02.
- Crushed stone under retaining wall base shall be a 3/4" gradation in conformance with Standard Specification 703.02 Coarse Aggregate for Concrete and considered incidental to selected retaining wall type.
- All embankment material, except otherwise shown, placed below the pay limit elevation of the retaining wall shall be gravel borrow meeting the requirements of subsection 703.02.
- Unsuitable foundation materials encountered below the bottom of the reinforced fill zone shall be removed as directed by the Resident or their Geotechnical Representative and replaced with Gravel Borrow meeting the requirements of subsection 703.20, Gravel Borrow. Excavation of unsuitable foundation material will be measured for payment under pay item 203.20 common excavation. Placement of Gravel Borrow shall be measured for payment under Pay Item 203.26, Gravel Borrow.
- All leveling pads shall be constructed from Class A Concrete. Payment for concrete leveling pad shall be considered incidental to the selected wall type items.
- Construct French Drains behind the MSE Wall in accordance with Standard Specification 512, French Drains. Place 4" diameter weep holes through the wall at 10 ft maximum spacing.
- For design bearing pressures for the Strength and Service Limit States, see Figures A and B in Section 5.5 of the Geotechnical Design Report.

**MSE WALL NOTES:**

- The Contractor shall provide a Mechanically Stabilized Earth (MSE) retaining wall in accordance with Standard Specification 677, Mechanically Stabilized Earth Retaining Wall. The MSE retaining wall shall be designed in accordance with Section 11.10 of the AASHTO LRFD Bridge Design Specifications, 8th Edition, 2020 with latest interims and the wall manufacturer's recommendations. All design computations and shop drawings shall be stamped by a licensed Professional Engineer and the design shall be submitted to the Department for review. Plan details are shown for estimating purposes only.
- The factored bearing pressure for MSE walls shall not exceed the factored bearing resistance shown in Figures A and B in Section 6.4 of the Geotechnical Report.
- Topsail, granular fill, and organic soils shall be removed entirely within the reinforced soil zone as shown in the plans.
- Concrete facing panel finish shall be smooth Class "P" concrete. The Contractor shall submit samples of the smooth concrete finish to the Resident for approval prior to casting.

15. Reinforcing bars shall be stainless steel meeting Standard Specification 503.

**T-WALL NOTES:**

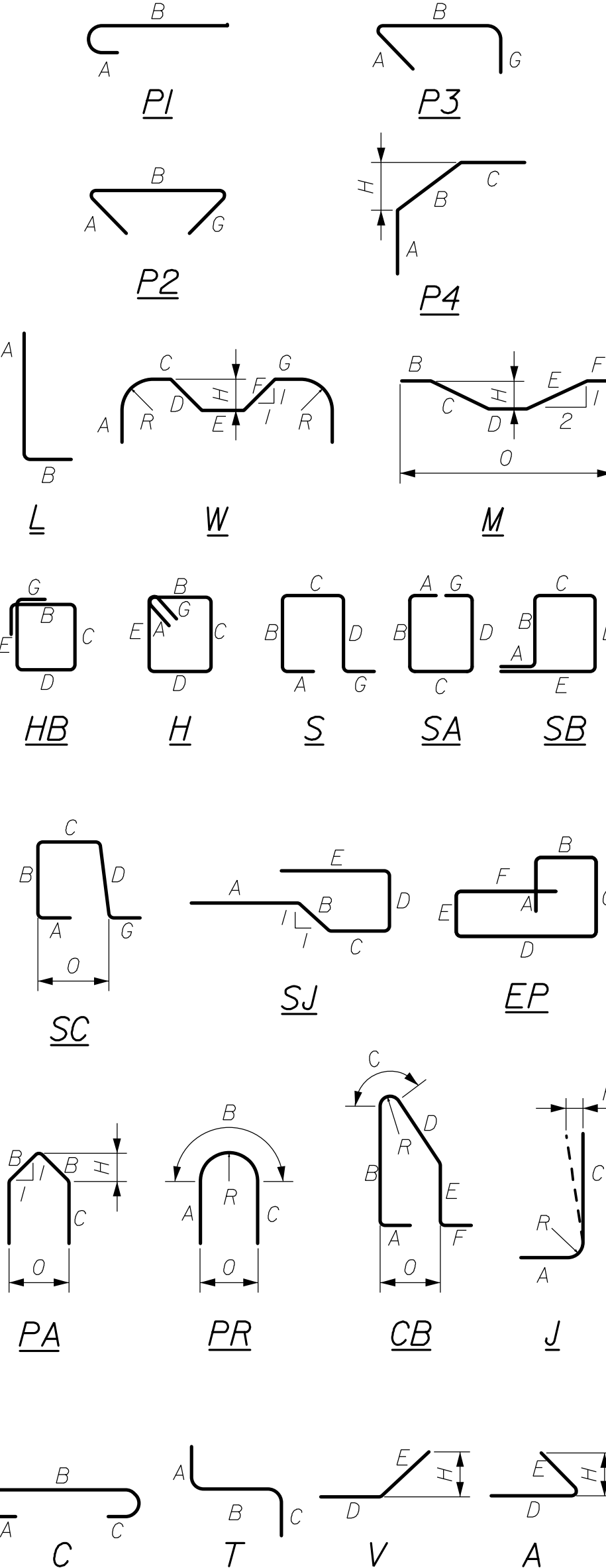
- The Contractor shall provide a Prefabricated Concrete Modular Gravity (PCMG) wall in accordance with Standard Specification 674. All design computations and shop drawings shall be stamped by a licensed Professional Engineer and the design shall be submitted to the Department for review. Plan details are shown for estimating purposes only.
- Select precast units from the MaineDOT Qualified Product List of Proprietary Retaining Wall Systems and submit to Resident for Approval.
- The factored bearing pressure for PCMG walls shall not exceed the factored bearing resistance shown in Figures A and B in Section 6.4 of the Geotechnical Report.
- The PCMG wall shall consist of Class P concrete meeting Standard Specification 502 and stainless steel reinforcing meeting Standard Specification 503.
- Clear protective coating shall be applied to exposed surfaces of T-wall panels and shall be paid for under item 515.202 Clear Protective Coating for Concrete Surfaces.
- Prior to placing top rows of T-wall, the Contractor must locate all proposed guardrail posts and mark them on back face of wall to ensure no conflicts exist for future post installation.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 3039	
2392900		WIN		23929.00	
BRIDGE PLANS		SIGNATURE		DATE	
P. Bishop		T. Cote		08/21	
D. Eaton, P.E.		K. Brody		08/21	
B. Genter		Backfill Material		08/21	
DESIGN DETAILED		REVISIONS 1		P.E. NUMBER	
CHECKED/REVIEWED		REVISIONS 2		DATE	
DESIGN DETAILED		REVISIONS 3			
REVISIONS 4		FIELD CHANGES			
STATION 46 BRIDGE					
KENNEBEC RIVER ESTUARY					
WOOLWICH SAGADAHOE COUNTY					
RETAINING WALL					
DETAILS					
SHEET NUMBER					
137					
OF 183					



STRAIGHT BARS				BENT BARS														
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
Pier No. 1 (Plain Rebar)				Pier No. 1 (Plain Rebar)														
IP700	41	18'-6"	Footing Longitudinal (Top)	IP750	110	5'-10"	S	0"	1'-2"	3'-6"	1'-2"							Footing End U-Bar
IP701	26	33'-6"	Footing Transverse (Top)	Pier No. 1 (Stainless Steel)														
IP1000	68	18'-6"	Footing Longitudinal (Bot.)	IP550ss	112	8'-6"	SA	10"	1'-8"	3'-6"	1'-8"							Stem Horizontal End U-Bar
IP1001	38	33'-6"	Footing Transverse (Bot.)	IP551ss	836	4'-10"	P3	6"	3'-6"									Stem Horizontal Ties
Pier No. 1 (Stainless Steel)				IP552ss	112	24'-6"	S	0"	10"	22'-10"	10"							Stem Horizontal
IP600ss	2	22'-10"	Cap Horizontal	IP553ss	15	9'-10"	S	0"	3'-2"	3'-6"	3'-2"							Pedestal U-Bar
IP601ss	2	29'-6"	Cap Horizontal	IP554ss	20	8'-11"	S	0"	3'-2"	2'-6"	3'-2"							Pedestal U-Bar
IP602ss	2	36'-2"	Cap Horizontal	IP650ss	72	11'-4"	S	0"	4'-5"	2'-6"	4'-5"							Cap Vertical Stirrup
IP603ss	10	42'-10"	Cap Horizontal	IP651ss	128	13'-0"	S	0"	5'-3"	2'-6"	5'-3"							Cap Vertical Stirrup
Pier No. 2 (Plain Rebar)				IP652ss	38	14'-6"	S	0"	5'-3"	4'-0"	5'-3"							Cap Vertical Stirrup
2P700	41	18'-6"	Footing Longitudinal (Top)	IP653ss	16	18'-5"	P4	3'-10"	10'-1"	4'-6"					9'-9"			Cap Cantilever Horizontal
2P701	26	33'-6"	Footing Transverse (Top)	IP654ss	18	6'-0"	S	0"	1'-0"	4'-0"	1'-0"							Cap Horizontal End U-Bar
2P1000	68	18'-6"	Footing Longitudinal (Bot.)	IP950ss	53	13'-7"	L	11'-9"	1'-10"									Footing/Stem Vertical L-Bar
2P1001	38	33'-6"	Footing Transverse (Bot.)	IP951ss	53	17'-7"	L	15'-9"	1'-10"									Footing/Stem Vertical L-Bar
Pier No. 2 (Stainless Steel)				IP1052ss	32	26'-11"	L	25'-1"	1'-10"									Cap Primary Top Horizontal
2P600ss	2	22'-10"	Cap Horizontal	2P750	110	5'-10"	S	0"	1'-2"	3'-6"	1'-2"							Footing End U-Bar
2P601ss	2	29'-6"	Cap Horizontal	Pier No. 2 (Stainless Steel)														
2P602ss	2	36'-2"	Cap Horizontal	2P550ss	84	8'-6"	SA	10"	1'-8"	3'-6"	1'-8"							Stem Horizontal End U-Bar
2P603ss	10	42'-10"	Cap Horizontal	2P551ss	682	4'-10"	P3	6"	3'-6"									Stem Horizontal Ties
Pier No. 3 (Plain Rebar)				2P552ss	84	24'-6"	S	0"	10"	22'-10"	10"							Stem Horizontal
3P700	41	13'-6"	Footing Longitudinal (Top)	2P553ss	15	9'-10"	S	0"	3'-2"	3'-6"	3'-2"							Pedestal U-Bar
3P701	21	33'-6"	Footing Transverse (Top)	2P554ss	20	8'-11"	S	0"	3'-2"	2'-6"	3'-2"							Pedestal U-Bar
3P1000	68	13'-6"	Footing Longitudinal (Bot.)	2P650ss	72	11'-4"	S	0"	4'-5"	2'-6"	4'-5"							Cap Vertical Stirrup
3P1001	28	33'-6"	Footing Transverse (Bot.)	2P651ss	128	13'-0"	S	0"	5'-3"	2'-6"	5'-3"							Cap Vertical Stirrup
Pier No. 3 (Stainless Steel)				2P652ss	38	14'-6"	S	0"	5'-3"	4'-0"	5'-3"							Cap Vertical Stirrup
3P600ss	2	22'-10"	Cap Horizontal	2P653ss	16	18'-5"	P4	3'-10"	10'-1"	4'-6"					9'-9"			Cap Cantilever Horizontal
3P601ss	2	29'-6"	Cap Horizontal	2P654ss	18	6'-0"	S	0"	1'-0"	4'-0"	1'-0"							Cap Horizontal End U-Bar
3P602ss	2	36'-2"	Cap Horizontal	2P1050ss	53	10'-7"	L	8'-9"	1'-10"									Footing/Stem Vertical L-Bar
3P603ss	10	42'-10"	Cap Horizontal	2P1051ss	53	13'-4"	L	11'-6"	1'-10"									Footing/Stem Vertical L-Bar
Deck (Stainless Steel)				2P1052ss	32	26'-11"	L	25'-1"	1'-10"									Cap Primary Top Horizontal
S500ss	1521	50'-8"	Primary Longitudinal	3P750	100	5'-10"	S	0"	1'-2"	3'-6"	1'-2"							Footing End U-Bar
S501ss	2514	43'-0"	Primary Transverse	Pier No. 3 (Stainless Steel)														
S502ss	78	50'-8"	Curb Longitudinal	3P550ss	66	8'-6"	SA	10"	1'-8"	3'-6"	1'-8"							Stem Horizontal End U-Bar
S503ss	48	9'-0"	Deck End Transverse	3P551ss	583	4'-10"	P3	6"	3'-6"									Stem Horizontal Ties
S504ss	96	3'-0"	Drain Diagonal	3P552ss	66	24'-6"	S	0"	10"	22'-10"	10"							Stem Horizontal
S600ss	58	59'-0"	Deck Longitudinal Over Pier	3P553ss	15	9'-10"	S	0"	3'-2"	3'-6"	3'-2"							Pedestal U-Bar
S601ss	58	57'-0"	Deck Longitudinal Over Pier	3P554ss	20	8'-11"	S	0"	3'-2"	2'-6"	3'-2"							Pedestal U-Bar
S602ss	58	47'-7"	Deck Longitudinal Over Pier	3P650ss	72	11'-4"	S	0"	4'-5"	2'-6"	4'-5"							Cap Vertical Stirrup
S603ss	58	19'-0"	Deck Longitudinal Over Pier	3P651ss	128	13'-0"	S	0"	5'-3"	2'-6"	5'-3"							Cap Vertical Stirrup
Approach Slab (Stainless Steel)				3P652ss	38	14'-6"	S	0"	5'-3"	4'-0"	5'-3"							Cap Vertical Stirrup
AS501ss	32	30'-0"	Approach Slab Transverse	3P653ss	16	18'-5"	P4	3'-10"	10'-1"	4'-6"					9'-9"			Cap Cantilever Horizontal
AS502ss	32	10'-4"	Approach Slab Transverse	3P654ss	18	6'-0"	S	0"	1'-0"	4'-0"	1'-0"							Cap Horizontal End U-Bar
AS601ss	158	15'-2"	Approach Slab Longitudinal	3P950ss	106	18'-1"	L	1'-10"	16'-3"									Footing/Stem Vertical L-Bar
Deck (Stainless Steel)				3P1052ss	32	26'-11"	L	25'-1"	1'-10"									Cap Primary Top Horizontal
S550ss	1735	5'-9"	SC															Curb Stirrup
S551ss	2514	5'-7"	C															Deck Overhang
S552ss	90	7'-1"	SJ															Bottom Deck End Stirrup Long.
S553ss	90	3'-9"	L															Top Deck End Stirrup Long.

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.  
 Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.  
 Reinforcing Bar: ASTM A615/A615M, Grade 60  
 ASTM A955, GRADE 75  
 CSA S807-10, ACI 440.1R-15

GENERAL NOTES

- The first two digits following the letter(s) of the mark indicate the size of the bar:  
 Mark "A502" = bar size #5  
 Mark "P805" = bar size #8  
 Mark "S650" = bar size #6  
 Mark "S650ss" = bar size #6 Stainless Steel  
 Mark "S600G" = bar size #6 GFRP
- Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case shall be based on crank bars as schedule on the plans.
- Bar marks ending with 'G' indicate GFRP. Bar marks ending with 'ss' indicate stainless steel. All other bars are plain (uncoated).



STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 2392900  
 WIN  
 23929.00  
 BRIDGE NO. 3039  
 BRIDGE PLANS

PROJ. MANAGER: D. EATON  
 DESIGN-DETAILED: H. WALTON  
 CHECKED-REVIEWED: P. BISHOP  
 DESIGNED-DRAWN: J. WAZGH  
 DATE: 08/18  
 SIGNATURE: J. O'NEIL

REVISIONS:  
 1. Reinforcing  
 2.  
 3.  
 4.  
 FIELD CHANGES

STATION 46 BRIDGE  
 KENNEBEC RIVER ESTUARY  
 WOOLWICH  
 SAGADAHOC COUNTY  
 REINFORCING STEEL  
 SCHEDULE II

SHEET NUMBER  
 164  
 OF 183