



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

Janet T. Mills
GOVERNOR

Bruce A. Van Note
COMMISSIONER

March 24, 2022
Subject: Bridge Replacements &
Highway Intersection Reconstruction
State WINs: 022511.01, 022512.01
& 022950.01
Location: **Old Town**
Amendment No. 3

Dear Sir/Ms.:

Due to the war in Ukraine and sanctions against Russia, the availability of nickel has dropped significantly. Russia provides roughly 26% of the world's nickel. Nickel is a key component of stainless-steel. The cost of stainless-steel reinforcement has risen dramatically in recent weeks. The future availability of stainless-steel reinforcement is also in doubt. Due to these reasons, MaineDOT has eliminated the use of stainless-steel reinforcement from the bridge projects.

Contractors now need to provide bids on the following two sections that provide alternative reinforcement to the stainless-steel reinforcement in the superstructures for the bridges:

Section 2 - The straight stainless-steel reinforcement bars in the superstructure will be replaced with GFRP reinforcement. The stainless-steel reinforcement bent bars in the superstructure will be replaced with low-carbon chromium reinforcement.

Section 3 - All stainless-steel reinforcement bars in the superstructure will be replaced with low-carbon chromium reinforcement.

Make the following changes to the Bid Documents:

In the Bid Book:

CHANGE from Amendment No. 1, the bid opening date from "March 30, 2022" to read "**April 6, 2022**". Make this change in pen and ink.

ADD the following on page 14, NOTICE TO CONTRACTORS:

"Basis of award – Low bid of the following two options

Section 1 plus section 2

Section 1 plus section 3

All 3 sections must be completed"

Make this change in pen and ink.

REMOVE from Amendment No. 1, Proposal Schedule of Items, 17 pages, dated 3/8/2022, and **REPLACE** with the attached, revised Proposal Schedule of Items, 18 pages, dated 3/23/2022.

REMOVE pages 34 – 41, CONTRACT AGREEMENT, OFFER & AWARD, 2 copies, 4 pages each, and **REPLACE** with the attached, revised CONTRACT AGREEMENT, OFFER & AWARD, 2 copies, 4 pages each.

ADD the attached SPECIAL PROVISION - SECTION 530 - GLASS FIBER REINFORCED POLYMER - (Reinforcement Bars) - (Design-Detail-Build), 5 pages, dated March 22, 2022.

In the plan set:

REMOVE SHEET NUMBER 2, ESTIMATED QUANTITIES, dated 3/8/2022 and **REPLACE** with the attached, revised SHEET NUMBER 2, ESTIMATED QUANTITIES, dated 3/22/22.

REMOVE SHEET NUMBER 157, PROFILE (2 OF 2), dated 11/17/21 and **REPLACE** with the attached revised SHEET NUMBER 157, PROFILE (2 OF 2), dated 3/22/22.

REMOVE SHEET NUMBER 194, PIER NOTES, dated 9/28/21 and **REPLACE** with the attached revised SHEET NUMBER 194, PIER NOTES, dated 3/22/22.

REMOVE SHEET NUMBER 195, PIER PLAN, ELEVATION, AND SECTION, dated 9/28/21 and **REPLACE** with the attached, revised SHEET NUMBER 195, PIER PLAN, ELEVATION, AND SECTION, dated 3/22/22.

REMOVE SHEET NUMBER 196, PIER REINFORCING DETAILS, dated 9/28/21 and **REPLACE** with the attached, revised SHEET NUMBER 196, PIER REINFORCING DETAILS, dated 3/22/22.

REMOVE SHEET NUMBER 206, REINFORCING SCHEDULE, dated 9/28/21 and **REPLACE** with the attached, revised SHEET NUMBER 206, REINFORCING SCHEDULE, dated 3/22/22.

The following questions have been received:

Question: Does the department anticipate Structural Rock Excavation within the footprint of the new Pier?

Response: Yes.

Question: The response to the 10th question from Addendum #1 regarding concrete seal depth states that "A more in-depth design procedure was utilized for this project". Please provide the design procedure and calculations used for this project so we may analyze it as it is critical for worker safety.

Response: The elevation for the top of the seal and top of footing have been revised upward. Please see the revised pier plans (sheets 194 to 196).

Question: Specification sections 01150B Measurement and Payment- This section appears to be addressing work associated to the sewer force main portion of the project and is limiting the Maintenance of Traffic Control Devices Pay Item to be applicable only for sewer line work when no DOT bridge construction is taking place. Please advise where Maintenance of Traffic Control Devices for the balance of the project should be paid. Additionally, does the balance of this section only apply to the sewer force main work?

Response: Per Section 001150b-4, page 266, first paragraph - Payment for flaggers for the sewer main work includes all labor, materials, equipment, signage, and supervision. Equipment and signage include any construction signs or channelization devices needed while a flagger is working. If a flagger is not used, traffic control for any sewer related work will be paid for under item 652.36 Maintenance of Traffic Control Devices per Calendar Day. The traffic control requirements per Section 001150b-4, page 266 only apply to sewer main related work.

Question: Can the temporary bridge be used for traffic while the utilities are relocating their lines into the temporary conduits?

Response: Traffic (vehicular and pedestrian) will be allowed on the temporary bridge while temporary cables are installed in the temporary conduit that are attached to the temporary bridge. Traffic shall be maintained in accordance with SPECIAL PROVISION - SECTION 105 - GENERAL SCOPE OF WORK - (Traffic Control), dated March 3, 2022.

Question: Special Provisions Section 104 - Utilities indicates that both First Light and Consolidated Communications will be installing temporary cables within conduits installed on the temporary bridge. Will traffic be allowed on the temporary bridge during First Light and Consolidated Communications work? Will the two-week scheduling period that Consolidated Communications requires after First Light has completed their work apply to the installation of their cables within the temporary conduits?

Response: Traffic (vehicular and pedestrian) will be allowed on the temporary bridge while temporary cables are installed in the temporary conduit that are attached to the temporary bridge. Traffic shall be maintained in accordance with SPECIAL PROVISION - SECTION 105 - GENERAL SCOPE OF WORK - (Traffic Control), dated March 3, 2022. Yes, First Light must complete their work before Consolidated Communications (CCI) can begin their work.

Question: Contract Plan Sheet 154 note 11 states, "...and the mortar in pier masonry joints may also contain lead. The Contractor is responsible for the containment, proper management, and disposal of all lead contaminated hazardous waste generated by the process of demolishing the bridges." Based upon the current existing bridge plans the piers and abutments are constructed out of concrete so this note must be referencing the old covered bridge pier. Per the Pier Excavation note 1 on Sheet 194 this pier was partially demolished to the stream bed and the masonry blocks deposited in the streambed. The note further goes on to state, "tight fitting granite masonry stones are anticipated to be present from approximately the existing streambed elevation to bedrock elevation" Conducting any testing of the existing masonry joints (if any) would be nearly impossible.

Response: The Department anticipates that any mortar on the masonry block for the former pier is no longer present after being exposed to flowing water for over 70 years.

Question: Please confirm the Contractor is to assume work associated with masonry block removal is hazardous and contains lead.

Response: The Department anticipates that any mortar on the masonry block for the former pier is no longer present after being exposed to flowing water for over 70 years.

Question: Please also confirm per Pier Excavation Note 4 on Sheet 194 that removal of granite masonry obstructing the cofferdam installation may be conducted within a silt boom even if lead is assumed to be present.

Response: The Department anticipates that any mortar on the masonry block for the former pier is no longer present after being exposed to flowing water for over 70 years. The use of a floating silt curtain is acceptable.

Question: Will the following pavement areas be paid for under item 461.131 Temporary Pavement?

1. Sidewalk pavement for the temporary bridge approach area
2. Driveways off the temporary bridge approaches
3. Temporary detour bridge deck

Response: Yes, all of these items will be paid for under item 461.131 Temporary Pavement.

Question: Due to the complexity of the project and level of effort required to complete the Contractor design elements we respectfully request a 1-week extension of the bid date from March 30th to April 6th.

Response: The bid opening date has been extended one week, to April 6, 2022.

Question: Amendment No. 1 Proposal Schedule of Items 604.252 shows a quantity of 4.126 EA. Amendment No. 1 Estimated Quantities Sheet 2 of 218 was revised to show 4.125 EA. Please clarify the correct quantity.

Response: The revised quantity for Item 604.252 of 4.125 EA is correct. See attached, revised Proposal Schedule of Items.

Consider these changes and information prior to submitting your bid on **April 6, 2022**.

Sincerely,



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

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 022511.01

Project(s): 022511.01, 022512.01, 022950.01

SECTION: 1

Old Town, Br. #2 - WIN 22511.01

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	201.11 CLEARING	1.000 AC	_____	 _____	_____	 _____
0020	201.23 REMOVING SINGLE TREE TOP ONLY	25.000 EA	_____	 _____	_____	 _____
0030	201.24 REMOVING STUMP	26.000 EA	_____	 _____	_____	 _____
0040	202.08 REMOVING BUILDING NO.: Old Mill Road 70+42lt	LUMP SUM		 LUMP SUM	_____	 _____
0050	202.08 REMOVING BUILDING NO.: Stillwater Ave, 35+30lt	LUMP SUM		 LUMP SUM	_____	 _____
0060	202.11 REMOVING PORTLAND CEMENT CONCRETE PAVEMENT	2,700.000 SY	_____	 _____	_____	 _____
0070	202.15 REMOVING EXISTING MANHOLE OR CATCH BASIN	13.000 EA	_____	 _____	_____	 _____
0080	202.19 REMOVING EXISTING BRIDGE STILLWATER NO.1	LUMP SUM		 LUMP SUM	_____	 _____
0090	202.19 REMOVING EXISTING BRIDGE STILLWATER NO.2	LUMP SUM		 LUMP SUM	_____	 _____
0100	202.202 REMOVING PAVEMENT SURFACE	3,900.000 SY	_____	 _____	_____	 _____
0110	202.203 PAVEMENT BUTT JOINTS	1,160.000 SY	_____	 _____	_____	 _____
0120	203.20 COMMON EXCAVATION	14,830.000 CY	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0130	203.2318 DISPOSAL OF SPECIAL WASTE	33.000 T	_____	 _____	_____	 _____
0140	203.25 GRANULAR BORROW	5,450.000 CY	_____	 _____	_____	 _____
0150	203.35 CRUSHED STONE 3/4 INCH	98.000 CY	_____	 _____	_____	 _____
0160	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	2,700.000 CY	_____	 _____	_____	 _____
0170	206.092 STRUCTURAL ROCK EXCAVATION - MAJOR STRUCTURES	200.000 CY	_____	 _____	_____	 _____
0180	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	12,640.000 CY	_____	 _____	_____	 _____
0190	304.14 AGGREGATE BASE COURSE - TYPE A	15.000 CY	_____	 _____	_____	 _____
0200	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	2,508.000 T	_____	 _____	_____	 _____
0210	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	612.000 T	_____	 _____	_____	 _____
0220	403.211 HOT MIX ASPHALT (SHIMMING)	1,100.000 T	_____	 _____	_____	 _____
0230	403.213 HOT MIX ASPHALT 12.5 MM BASE	2,820.000 T	_____	 _____	_____	 _____
0240	409.15 BITUMINOUS TACK COAT - APPLIED	2,513.000 G	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0250	461.131 TEMPORARY PAVEMENT	420.000 T	_____	 _____	_____	 _____
0260	501.237 NOISE ATTENUATION AND UNDERWATER NOISE MONITORING	LUMP SUM	LUMP SUM		_____	 _____
0270	501.502 ROCK SOCKETED H-PILES	324.000 LF	_____	 _____	_____	 _____
0280	501.54 STEEL H-BEAM PILES 117 LBS/FT, DELIVERED	364.000 LF	_____	 _____	_____	 _____
0290	501.804 DRILLING EQUIPMENT MOBILIZATION	LUMP SUM	LUMP SUM		_____	 _____
0300	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP SUM	LUMP SUM		_____	 _____
0310	502.239 STRUCTURAL CONCRETE PIERS	LUMP SUM	LUMP SUM		_____	 _____
0320	502.24 STRUCTURAL CONCRETE PIERS (PLACED UNDER WATER)	240.000 CY	_____	 _____	_____	 _____
0330	502.26 STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLABS ON STEEL BRIDGES	LUMP SUM	LUMP SUM		_____	 _____
0340	502.31 STRUCTURAL CONCRETE APPROACH SLABS	LUMP SUM	LUMP SUM		_____	 _____
0350	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALKS	LUMP SUM	LUMP SUM		_____	 _____

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			Dollars	Cents	Dollars	Cents
0360	502.77 FIBER REINFORCED POLYMER BRIDGE DRAIN - TYPE: B	6.000 EA	_____	 _____	_____	 _____
0370	502.77 FIBER REINFORCED POLYMER BRIDGE DRAIN - TYPE: F	6.000 EA	_____	 _____	_____	 _____
0380	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	100,200.000 LB	_____	 _____	_____	 _____
0390	503.13 REINFORCING STEEL, PLACING	100,200.000 LB	_____	 _____	_____	 _____
0440	504.702 STRUCTURAL STEEL FABRICATED AND DELIVERED, WELDED	LUMP SUM		LUMP SUM	_____	 _____
0450	504.71 STRUCTURAL STEEL ERECTION	LUMP SUM		LUMP SUM	_____	 _____
0460	505.08 SHEAR CONNECTORS	LUMP SUM		LUMP SUM	_____	 _____
0470	506.9104 THERMAL SPRAY COATING - SHOP APPLIED	LUMP SUM		LUMP SUM	_____	 _____
0480	507.08161 STEEL APPROACH RAILING, 4 BAR	4.000 EA	_____	 _____	_____	 _____
0490	507.0821 STEEL BRIDGE RAILING, 3 BAR	LUMP SUM		LUMP SUM	_____	 _____
0500	507.0822 STEEL APPROACH RAILING, 3-BAR	4.000 EA	_____	 _____	_____	 _____
0510	507.0831 STEEL BRIDGE RAILING, 4 BAR	LUMP SUM		LUMP SUM	_____	 _____

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			Dollars	Cents	Dollars	Cents
0520	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP SUM	LUMP	SUM	_____	_____
0530	510.12 SPECIAL DETOUR __FOOT ROADWAY WIDTH, VEHICULAR AND PEDESTRIAN TRAFFIC SEPARATED 30FT RDWY 5FT SW	LUMP SUM	LUMP	SUM	_____	_____
0540	511.07 COFFERDAM: Bridge 1 Abutment No. 1	LUMP SUM	LUMP	SUM	_____	_____
0550	511.07 COFFERDAM: Bridge 1 Abutment No. 2	LUMP SUM	LUMP	SUM	_____	_____
0560	511.07 COFFERDAM: Bridge 2, Abutment No. 1	LUMP SUM	LUMP	SUM	_____	_____
0570	511.07 COFFERDAM: Bridge 2, Abutment No. 2	LUMP SUM	LUMP	SUM	_____	_____
0580	511.07 COFFERDAM: Bridge 2, Pier No. 1	LUMP SUM	LUMP	SUM	_____	_____
0590	513.22 CRUSHED STONE SLOPE PROTECTION	100.000 SY	_____	_____	_____	_____
0600	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP SUM	LUMP	SUM	_____	_____
0610	519.60 EXPANSION DEVICE - ASPHALTIC PLUG JOINT	171.000 LF	_____	_____	_____	_____
0620	523.52 BEARING INSTALLATION	6.000 EA	_____	_____	_____	_____

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			Dollars	Cents	Dollars	Cents
0630	523.5401 LAMINATED ELASTOMERIC BEARINGS, FIXED	6.000 EA	_____	 _____	_____	 _____
0640	527.34 WORK ZONE CRASH CUSHIONS	4.000 UN	_____	 _____	_____	 _____
0670	603.159 12 INCH CULVERT PIPE OPTION III	84.000 LF	_____	 _____	_____	 _____
0680	603.165 15 INCH REINFORCED CONCRETE PIPE CLASS III	40.000 LF	_____	 _____	_____	 _____
0690	603.175 18 INCH REINFORCED CONCRETE PIPE CLASS III	108.000 LF	_____	 _____	_____	 _____
0700	603.179 18 INCH CULVERT PIPE OPTION III	169.000 LF	_____	 _____	_____	 _____
0710	604.072 CATCH BASIN TYPE A1-C	12.126 EA	_____	 _____	_____	 _____
0720	604.092 CATCH BASIN TYPE B1-C	11.000 EA	_____	 _____	_____	 _____
0730	604.164 REBUILDING CATCH BASIN	4.000 EA	_____	 _____	_____	 _____
0740	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	10.000 EA	_____	 _____	_____	 _____
0750	604.2406 STORMWATER PLANTER	1.000 EA	_____	 _____	_____	 _____
0760	604.245 CATCH BASIN TYPE F4-C	2.000 EA	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0770	604.247 CATCH BASIN TYPE F5-C	1.000 EA	_____	_____	_____	_____
0780	604.249 CATCH BASIN TYPE F6-C	1.000 EA	_____	_____	_____	_____
0790	604.252 CATCH BASIN TYPE A5-C	4.125 EA	_____	_____	_____	_____
0800	604.262 CATCH BASIN TYPE B5-C	2.000 EA	_____	_____	_____	_____
0810	605.09 6 INCH UNDERDRAIN TYPE B	2,150.000 LF	_____	_____	_____	_____
0820	605.11 12 INCH UNDERDRAIN TYPE C	1,700.000 LF	_____	_____	_____	_____
0830	605.12 15 INCH UNDERDRAIN TYPE C	140.000 LF	_____	_____	_____	_____
0840	606.1301 31" W-BM GR, MID-WAY SPLICE-SGL FACED	413.000 LF	_____	_____	_____	_____
0850	606.1303 31" W-BM GR, MID-WAY SPLICE-15' RAD AND LESS	100.000 LF	_____	_____	_____	_____
0860	606.1721 BRIDGE TRANSITION - TYPE 1	8.000 EA	_____	_____	_____	_____
0870	606.259 ANCHORAGE ASSEMBLY	4.000 EA	_____	_____	_____	_____
0880	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	4.000 EA	_____	_____	_____	_____

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			Dollars	Cents	Dollars	Cents
0890	606.356 UNDERDRAIN DELINEATOR POST	4.000 EA	_____	 _____	_____	 _____
0900	606.47 SINGLE WOOD POST	6.000 EA	_____	 _____	_____	 _____
0910	606.51 MULTIPLE MAILBOX SUPPORT	4.000 EA	_____	 _____	_____	 _____
0920	607.291 REMOVE AND RESET STONE WALL	10.000 LF	_____	 _____	_____	 _____
0930	607.42 ORNAMENTAL PICKET FENCE	72.000 LF	_____	 _____	_____	 _____
0940	608.26 CURB RAMP DETECTABLE WARNING FIELD	270.000 SF	_____	 _____	_____	 _____
0950	609.11 VERTICAL CURB TYPE 1	4,940.000 LF	_____	 _____	_____	 _____
0960	609.12 VERTICAL CURB TYPE 1 - CIRCULAR	360.000 LF	_____	 _____	_____	 _____
0970	609.221 TERMINAL CURB TYPE 1	660.000 LF	_____	 _____	_____	 _____
0980	609.222 TERMINAL CURB TYPE 1 - CIRCULAR	130.000 LF	_____	 _____	_____	 _____
0990	609.31 CURB TYPE 3	1,650.000 LF	_____	 _____	_____	 _____
1000	609.34 CURB TYPE 5	190.000 LF	_____	 _____	_____	 _____
1010	609.35 CURB TYPE 5 - CIRCULAR	140.000 LF	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1020	610.08 PLAIN RIPRAP	260.000 CY	_____	 _____	_____	 _____
1030	610.16 HEAVY RIPRAP	4,700.000 CY	_____	 _____	_____	 _____
1040	610.18 STONE DITCH PROTECTION	26.000 CY	_____	 _____	_____	 _____
1050	613.319 EROSION CONTROL BLANKET	52.000 SY	_____	 _____	_____	 _____
1060	615.07 LOAM	905.000 CY	_____	 _____	_____	 _____
1070	618.13 SEEDING METHOD NUMBER 1	71.000 UN	_____	 _____	_____	 _____
1080	619.12 MULCH	71.000 UN	_____	 _____	_____	 _____
1090	619.14 EROSION CONTROL MIX	10.000 CY	_____	 _____	_____	 _____
1100	620.58 EROSION CONTROL GEOTEXTILE	4,580.000 SY	_____	 _____	_____	 _____
1110	620.60 SEPARATION GEOTEXTILE	2,000.000 SY	_____	 _____	_____	 _____
1120	620.66 DRAINAGE GEOCOMPOSITE	370.000 SY	_____	 _____	_____	 _____
1130	626.11 PRECAST CONCRETE JUNCTION BOX	9.000 EA	_____	 _____	_____	 _____
1140	626.22 NON-METALLIC CONDUIT	525.000 LF	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
1150	626.221 NON-METALLIC CONDUIT CONCRETE ENCASED	55.000 LF	_____	 _____	_____	 _____
1160	626.251 NON-METALLIC UNDER PAVEMENT CONDUIT (SCHEDULE 80 OR GREATER RATING)	450.000 LF	_____	 _____	_____	 _____
1170	626.26 3" DIAMETER UTILITY CONDUIT SYSTEM, TEMPORARY	1.000 LS	_____	 _____	_____	 _____
1180	626.271 5 INCH DIAMETER UTILITY CONDUIT SYSTEM, TEMPORARY	1.000 LS	_____	 _____	_____	 _____
1190	626.35 CONTROLLER CABINET FOUNDATION	2.000 EA	_____	 _____	_____	 _____
1200	626.36 REMOVE OR MODIFY CONCRETE FOUNDATION	3.000 EA	_____	 _____	_____	 _____
1210	626.421 24 INCH DIAMETER FOUNDATION	77.000 LF	_____	 _____	_____	 _____
1220	626.451 42 INCH DIAMETER FOUNDATION	42.000 LF	_____	 _____	_____	 _____
1230	626.46 48 INCH DIAMETER FOUNDATION	23.000 LF	_____	 _____	_____	 _____
1240	626.48 60 INCH DIAMETER FOUNDATION	26.000 LF	_____	 _____	_____	 _____
1250	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	20,000.000 LF	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
1260	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	4,225.000 SF	_____	 _____	_____	 _____
1270	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	20,000.000 LF	_____	 _____	_____	 _____
1280	627.94 PREFORMED THERMOPLASTIC PAVEMENT MARKING	35.000 SF	_____	 _____	_____	 _____
1290	629.05 HAND LABOR, STRAIGHT TIME	123.000 HR	_____	 _____	_____	 _____
1300	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	123.000 HR	_____	 _____	_____	 _____
1310	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	200.000 HR	_____	 _____	_____	 _____
1320	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	40.000 HR	_____	 _____	_____	 _____
1330	639.18 FIELD OFFICE TYPE A	1.000 EA	_____	 _____	_____	 _____
1340	642.15 PRECAST CONCRETE STEPS	1.000 EA	_____	 _____	_____	 _____
1350	643.21 NON-INVASIVE DETECTION - STOP LINE: Stillwater Ave & Bennoch Road	LUMP SUM		 LUMP SUM	_____	 _____
1360	643.21 NON-INVASIVE DETECTION - STOP LINE: Stillwater Ave & College Ave	LUMP SUM		 LUMP SUM	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 022511.01

Project(s): 022511.01, 022512.01, 022950.01

SECTION: 1 Old Town, Br. #2 - WIN 22511.01

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
1370	643.71 TRAFFIC SIGNAL MODIFICATION Stillwater Ave at Bennoch Rd	LUMP SUM	LUMP	SUM	_____	_____
1380	643.71 TRAFFIC SIGNAL MODIFICATION Stillwater Ave at College Ave	LUMP SUM	LUMP	SUM	_____	_____
1390	643.72 TEMPORARY TRAFFIC SIGNAL Stillwater at Bennoch Rd	LUMP SUM	LUMP	SUM	_____	_____
1400	643.72 TEMPORARY TRAFFIC SIGNAL Stillwater at College Ave	LUMP SUM	LUMP	SUM	_____	_____
1410	643.91 MAST ARM POLE 25' Arm	3.000 EA	_____	_____	_____	_____
1420	643.91 MAST ARM POLE 33' Arm	1.000 EA	_____	_____	_____	_____
1430	643.91 MAST ARM POLE 35' Arm	2.000 EA	_____	_____	_____	_____
1440	643.91 MAST ARM POLE 40' Arm	1.000 EA	_____	_____	_____	_____
1450	643.91 MAST ARM POLE 50' Arm	1.000 EA	_____	_____	_____	_____
1460	643.92 PEDESTAL POLE	11.000 EA	_____	_____	_____	_____
1470	645.103 DEMOUNT GUIDE SIGN	31.000 EA	_____	_____	_____	_____
1480	645.106 DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	66.000 EA	_____	_____	_____	_____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 022511.01

Project(s): 022511.01, 022512.01, 022950.01

SECTION: 1 Old Town, Br. #2 - WIN 22511.01

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
1490	645.108 DEMOUNT POLE	2.000 EA	_____	 _____	_____	 _____
1500	645.113 REINSTALL GUIDE SIGN	13.000 EA	_____	 _____	_____	 _____
1510	645.116 REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	29.000 EA	_____	 _____	_____	 _____
1520	645.251 ROADSIDE GUIDE SIGNS, TYPE I	104.000 SF	_____	 _____	_____	 _____
1530	645.271 REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS, TYPE I	248.000 SF	_____	 _____	_____	 _____
1540	645.512 LED BLANK-OUT SIGN, OVERHEAD MOUNT	1.000 EA	_____	 _____	_____	 _____
1550	652.312 TYPE III BARRICADE	6.000 EA	_____	 _____	_____	 _____
1560	652.33 DRUM	160.000 EA	_____	 _____	_____	 _____
1570	652.34 CONE	250.000 EA	_____	 _____	_____	 _____
1580	652.35 CONSTRUCTION SIGNS	1,500.000 SF	_____	 _____	_____	 _____
1590	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	991.000 CD	_____	 _____	_____	 _____
1600	652.38 FLAGGER	15,220.000 HR	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 022511.01

Project(s): 022511.01, 022512.01, 022950.01

SECTION: 1

Old Town, Br. #2 - WIN 22511.01

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
1610	652.381 TRAFFIC OFFICER	40.000 HR	_____	 _____	_____	 _____
1620	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	8.000 EA	_____	 _____	_____	 _____
1630	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM		LUMP SUM	_____	 _____
1640	658.20 ACRYLIC LATEX COLOR FINISH, GREEN	115.000 SY	_____	 _____	_____	 _____
1650	659.10 MOBILIZATION	LUMP SUM		LUMP SUM	_____	 _____
1660	660.21 ON-THE-JOB TRAINING (BID)	1,000.000 HR	_____	 _____	_____	 _____
1670	801.03 TEST PITS	7.000 EA	_____	 _____	_____	 _____
1680	801.04 PREINSULATED SEWER PIPE	280.000 LF	_____	 _____	_____	 _____
1690	801.071 TEMPORARY SEWER BY-PASS	LUMP SUM		LUMP SUM	_____	 _____
1700	801.133 6" FORCE MAIN	80.000 LF	_____	 _____	_____	 _____
1710	801.141 4" PVC SANITARY SEWER (SDR-35)	20.000 LF	_____	 _____	_____	 _____
1720	801.16 6 INCH PVC SANITARY SEWER (SDR-35)	20.000 LF	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 022511.01

Project(s): 022511.01, 022512.01, 022950.01

SECTION: 1

Old Town, Br. #2 - WIN 22511.01

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
1730	812.162 ADJUSTING SEWER MANHOLE TO GRADE	20.000 EA	_____	 _____	_____	 _____
1740	822.322 6 INCH DUCTILE IRON PIPE	950.000 LF	_____	 _____	_____	 _____
1750	822.35 10 INCH CLASS 52 DUCTILE IRON PIPE	15.000 LF	_____	 _____	_____	 _____
1760	822.36 12 INCH DUCTILE IRON PIPE	1,065.000 LF	_____	 _____	_____	 _____
1770	822.37 16 " DUCTILE IRON PIPE	396.000 LF	_____	 _____	_____	 _____
1780	823.31 12 INCH GATE VALVE	3.000 EA	_____	 _____	_____	 _____
1790	823.331 6 INCH GATE VALVE	6.000 EA	_____	 _____	_____	 _____
1800	823.374 16 " GATE VALVE	2.000 EA	_____	 _____	_____	 _____
1810	824.30 FIRE HYDRANT	5.000 EA	_____	 _____	_____	 _____
1820	824.31 REMOVE FIRE HYDRANT	5.000 EA	_____	 _____	_____	 _____
1830	824.32 REMOVE/RESET HYDRANT	1.000 EA	_____	 _____	_____	 _____
1840	825.4222 2" HDPE CTS SERVICE	90.000 LF	_____	 _____	_____	 _____
1850	825.43 1" COPPER SERVICE	870.000 LF	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 022511.01

Project(s): 022511.01, 022512.01, 022950.01

SECTION: 1 Old Town, Br. #2 - WIN 22511.01

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
1860	825.5411 TEMPORARY WATER MAIN	LUMP SUM	LUMP SUM		_____	_____
1870	827.30 ROCK EXCAVATION- REMOVE AND REFILL	20.000 CY	_____	_____	_____	_____
1880	827.304 TRENCH ROCK EXCAVATION	100.000 CY	_____	_____	_____	_____
1890	827.31 UNSUITABLE SOIL EXCAVATION, REMOVE AND REFILL- ABOVE GRADE	100.000 CY	_____	_____	_____	_____
1900	827.312 SELECT BACKFILL	70.000 CY	_____	_____	_____	_____
1910	827.321 ABANDON EXISTING WATER MAIN IN PLACE	LUMP SUM	LUMP SUM		_____	_____
1920	827.331 TRENCH INSULATION	700.000 SY	_____	_____	_____	_____
1930	830.10 WATER MAIN BRIDGE CROSSING	LUMP SUM	LUMP SUM		_____	_____
1940	830.13 SEWER MAIN BRIDGE CROSSING	LUMP SUM	LUMP SUM		_____	_____
Section: 1			Total:		_____	_____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 022511.01

Project(s): 022511.01, 022512.01, 022950.01

SECTION: 2 GFRP

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
0400	503.19 LOW-CARBON, CHROMIUM REINFORCEMENT - FABRICATED & DELIVERED	27,100.000 LB	_____	 _____	_____	 _____
0420	503.20 LOW-CARBON, CHROMIUM REINFORCEMENT - PLACING	27,100.000 LB	_____	 _____	_____	 _____
0650	530.30 GFRP, REINFORCEMENT BARS, FABRICATED & DELIVERED	156,000.000 LF	_____	 _____	_____	 _____
0660	530.31 GFRP, REINFORCEMENT BARS, PLACING	156,000.000 LF	_____	 _____	_____	 _____
Section: 2			Total:		_____	 _____

SECTION: 3 Low-Carbon Chromium

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
0410	503.19 LOW-CARBON, CHROMIUM REINFORCEMENT - FABRICATED & DELIVERED	182,900.000 LB	_____	 _____	_____	 _____
0430	503.20 LOW-CARBON, CHROMIUM REINFORCEMENT - PLACING	182,900.000 LB	_____	 _____	_____	 _____
Section: 3			Total:		_____	 _____

Total Bid: _____!

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____ a corporation or other legal entity organized under the laws of the State of _____, with its principal place of business located at _____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, WINS. **022511.01 / 022512.01 / 22950.01** for **Bridge Replacements and Highway Intersection Reconstruction** in the town of **Old Town - County of Penobscot, Maine.** The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **October 30, 2025.** Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the *State of Maine Department of Transportation Standard Specifications, March 2020 Edition* and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 1 \$ _____

Section 2 \$ _____

Section 3 \$ _____

Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, *Standard Specifications, March 2020 Edition, Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the *Standard Specifications March 2020 Edition* (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, *Standard Specifications March 2020 Edition*, *Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **WINS. 022511.01 / 022512.01/ 022950.01 - Bridge Replacements and Highway Reconstruction – in the town of Old Town**, State of Maine, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items.”

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items,” which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the *Standard Specifications, March 2020 Edition*, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2020 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and

submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan with their bid.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative
of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 1

Section 2

Section 3

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: Bruce A. Van Note, Commissioner

Witness

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____ a corporation or other legal entity organized under the laws of the State of _____, with its principal place of business located at _____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, WINS. **022511.01 / 022512.01 / 22950.01** for **Bridge Replacements and Highway Intersection Reconstruction** in the town of **Old Town - County of Penobscot, Maine.** The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **October 30, 2025.** Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the *State of Maine Department of Transportation Standard Specifications, March 2020 Edition* and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 1 \$ _____

Section 2 \$ _____

Section 3 \$ _____

Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, *Standard Specifications, March 2020 Edition, Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the *Standard Specifications March 2020 Edition* (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, *Standard Specifications March 2020 Edition*, *Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **WINS. 022511.01 / 022512.01/ 022950.01 - Bridge Replacements and Highway Reconstruction – in the town of Old Town**, State of Maine, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items.”

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items,” which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the *Standard Specifications, March 2020 Edition*, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2020 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and

submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan with their bid.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative
of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 1

Section 2

Section 3

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: Bruce A. Van Note, Commissioner

Witness

SPECIAL PROVISION
SECTION 530
GLASS FIBER REINFORCED POLYMER
(Reinforcement Bars)
(Design-Detail-Build)

The following is added to the Standard Specifications as Section 530, Glass Fiber Reinforced Polymer, Reinforcement Bars:

530.01 Description This work shall consist of design, detailing, fabrication, furnishing and placing straight Glass Fiber Reinforced Polymer (GFRP) reinforcement bars, in accordance with the these Specifications and in conformity with the lines, grades and dimension shown on the Contract Plans. This work shall include, but is not limited to the following:

- Provide design for the straight bars in the superstructures for both bridges to replace the straight stainless steel reinforcement shown on the Contract Plans
- Provide updated superstructures reinforcement plans for both bridges
- Fabricate and furnish GFRP reinforcement
- Placing GFRP reinforcement

530.02 Materials GFRP reinforcement shall meet the requirements shown in the AASHTO Bridge Design Guide Specifications for GFRP-Reinforced Concrete Bridge Decks and Traffic Railings, including interim revisions, except as shown on the Plans and as stated herein. All GFRP reinforcement shall be deformed or sand coated.

GFRP reinforcement bars shall be one of the approved products listed on the MaineDOT Qualified Products List.

All GFRP reinforcement in the same structural component shall be supplied by the same manufacturer; there shall be no mixing of products from different manufacturers in a component unless permitted in the Contract Documents.

530.021 Design Requirements The superstructure reinforcement shall be designed by a Professional Engineer (Engineer of Record) licensed in the State of Maine. GFRP bars shall only be used for the straight bars in the superstructure. The design shall be completed in accordance with the latest editions of the AASHTO LRFD Bridge Design Specifications, the MaineDOT Bridge Design Guide (BDG), MaineDOT Standard Details, MaineDOT Standard Specifications, and project-specific Special Provisions.

All superstructure reinforcement in its entirety, shall be checked through independent calculations by a Professional Engineer (different than the Engineer of Record) licensed in the State of Maine. Proof of the independent check shall be submitted to the Department as part of the submittals in accordance with 530.03-Submittals/Schedule of Material.

530.022 Documentation The GFRP reinforcement manufacturer shall submit two (2) copies of a Material Certification stating that the GFRP reinforcement incorporated into the Project meets the requirements of this specification to the Resident. The certification shall include the test values and test procedures used to determine the physical properties of the GFRP reinforcement. The certification shall bear the notarized signature of a responsible authorized representative of the GFRP reinforcement manufacturer. Each bundle of GFRP reinforcement shall be identified with the lot number affixed to each bundle by means of a durable tag.

530.03 Submittals/Schedule of Material The Contractor shall submit to the Department a formal design package submittal with design computations, superstructure reinforcement plans including GFRP reinforcement bar schedules for approval in accordance with Subsection 105.7 to the Resident for approval. The bar schedules shall include shape diagrams and bar layout drawings. The Design Computations shall be signed and sealed by the Engineer of Record.

The GFRP reinforcement shall not be ordered until these lists, drawings and design computations are approved. Approval shall not relieve the Contractor of full responsibility for the satisfactory completion of the Work specified herein. When the Department allows the use of precast concrete deck panels, or any other significant changes that affect the quantity of GFRP reinforcement, the Contractor shall be responsible for revising the reinforcement bar schedule; the revised schedule shall be submitted to the Resident for approval. Substitution of different size GFRP reinforcement shall not be permitted except with the written authorization of the Engineer of Record.

530.04 Fabrication Forming and fabrication tolerances of GFRP reinforcement shall be in conformance with the latest edition of the "Manual of Standard Practice of the Concrete Reinforcing Steel Institute" and the "Detailing Manual of the American Concrete Institute."

530.05 Protection of Material Delivery, storage, and handling of GFRP reinforcement shall be in accordance with the manufacturer's recommendations. The Contractor shall prevent bending, coating the bars with soil, oil, or other material, or other damage to the GFRP reinforcement.

All handling of GFRP reinforcement by mechanical means shall be done by equipment having padded contact areas or using nylon webbing slings. The use of chains or wire rope slings will not be allowed, even when used with padding. All bundles of GFRP reinforcement shall be lifted with a strong back, spreader bar, multiple supports, or a platform bridge to prevent bar-to-bar abrasion from sags in the bundles. Support points during lifting or transporting of bundled GFRP reinforcement shall be spaced at a maximum of 15 feet, or as required by the manufacturer,

whichever is more restrictive. Bundled bars shall be strapped together with non-metallic or padded straps in a manner to prevent bar-to-bar abrasion due to relative movement between bars.

Individual bars shall be handled in a manner that prevents damage to the coating due to abrasion or impact, and at no time shall any bar be moved by dragging over any surface, including other reinforcement bars. Sufficient personnel shall be assigned to assure compliance with the provisions above.

Bars loaded for transport shall be loaded and strapped down in a manner that will prevent damage from motion and vibration, to the greatest extent possible. Bundles of bent bars shall be transported strapped to wooden platforms or shall be crated. All individual bundles and layers of bundles shall be separated and supported by dunnage.

GFRP reinforcement shall be stored on skids or other supports a minimum of 12 inches above the ground surface and protected at all times from damage and surface contamination. The storage supports shall be constructed of wood or other material that will not damage the surface of the GFRP reinforcement or sand coating. Bundles of bars shall be stored on supports in a single layer. Each bundle shall be placed on the supports out of contact with adjacent bundles. If it is expected that GFRP bars will be required to be stored outdoors for a period in excess of two months, then the GFRP reinforcement shall be protected from ultraviolet radiation. Prevent exposure of GFRP to temperatures above 120 degrees Fahrenheit.

All damaged bars shall be repaired in accordance with manufacturer recommendations and inspected and accepted by the Resident prior to placing concrete. All bars with total damage greater than 2 percent of the bar surface area, including previously repaired areas, will be rejected. All cuts, scratches, cracks, abrasions, or other damage, visible to the naked eye, shall be repaired. All bars damaged prior to placement within the formwork shall be repaired prior to GFRP reinforcement placement.

530.06 Placing and Fastening GFRP reinforcement shall be accurately placed in the positions shown on the Plans. Support and firmly tie or otherwise secure GFRP reinforcement in place to prevent settlement, floating upward, or movement in any direction during the placing and setting of the concrete.

Field bending of GFRP reinforcement is not allowed.

Field cutting of GFRP reinforcement will only be permitted with the approval of the Resident. Field cutting shall be with a high-speed cutter, fine blade saw, diamond blade or masonry saw. The GFRP reinforcement shall not be shear cut. The ends of all field cut GFRP reinforcement shall be treated in accordance with the manufacturer's recommendations.

GFRP reinforcement supported on formwork shall rest on stays, blocks, ties, hangers, GFRP or plastic chairs, bar supports made of dielectric material, or other approved materials. Blocks used for this purpose shall be precast Portland cement mortar blocks of approved shape and dimensions.

Blocks shall not be used in cases where the blocks will be visible in the finished product. Reinforcement bars used as support bars shall be GFRP, stainless steel, or non-metallic. The use of pebbles, stone, brick, metal pipe, wood, or metal chairs will not be allowed. Wire bar supports will not be allowed. Layers of bars may be separated by precast Portland cement mortar blocks or other approved devices.

Bars shall be fastened together at all intersections except where spacing is less than 1 foot in either direction, in which case, fastening at alternate intersections of each bar with other bars will be permitted providing this will hold all the bars securely in position. Ties shall be soft annealed wire that has been nylon, epoxy or plastic coated. Plastic ties will also be allowed. Placing reinforcement as concrete placement progresses, without definite and secure means of holding the GFRP reinforcement in its correct position, will not be allowed.

When specified on the Plans, GFRP reinforcement shall be anchored into drilled holes. The anchoring material shall be one of the products listed on the Maine Department of Transportation's Qualified Products List and the Contractor shall submit a selected material to the Resident for approval. Installation shall be in accordance with the manufacturer's recommendations.

At each anchor location, existing reinforcement will be located to avoid drilling through existing bars. Where interferences exist, location adjustments will be determined by the Resident. Minimum embedment lengths of reinforcement shall comply with the manufacturer's recommendations for the anchoring material selected. The embedment lengths will be verified by the Resident before installation of the reinforcement.

Termination of GFRP reinforcement shall be as shown on the Plans. Any exceptions or modifications shall be approved, in writing, by the Engineer of Record.

Immediately before placing concrete, GFRP reinforcement shall be free from all foreign material. Foreign material includes, but is not limited to, dirt, paint, oil, bitumen, and dried concrete mortar. Reinforcement shall be inspected and approved by the Resident prior to concrete placement.

530.07 Splicing GFRP Reinforcement shall be spliced as shown on the Plans and as specified herein. No modifications of, or additions to, the splice arrangements shown on the Plans will be allowed without the prior approval of the Resident.

Any additional splices authorized shall be staggered as much as possible. All splices shall be made in a manner that will ensure that not less than 75% of the clear concrete cover and not less than 75% of the minimum clear distance to other reinforcement will be maintained, as compared to the cover and clear distance requirements for the un-spliced reinforcement.

Lapped splices shall be made by placing the bars in contact and tying them together. Ties shall meet the requirements specified herein.

530.08 Method of Measurement GFRP reinforcement will be measured by the linear foot based on the authorized quantity in the Contract or in the approved reinforcement bar schedule submitted by the Contractor. No adjustments to the quantity will be made except to account for changes at the direction of the Resident.

If precast concrete deck panels are used, GFRP reinforcement in precast concrete deck panels will be considered incidental to the deck concrete. No separate payment will be made.

Lap splices that are authorized at the Contractor's request will not be measured for payment.

530.09 Basis of Payment Payment for Glass Fiber Reinforced Polymer, Fabricated and Delivered, shall be considered full compensation for design, detailing, furnishing, and proper storage of GFRP reinforcement.

Payment for Glass Fiber Reinforced Polymer, Placing, shall be full compensation for installation, adjustment, and supplies related to placing GFRP reinforcement.

Payment for work associated with furnishing and revising the GFRP reinforcement bar schedule, and all expenses incurred by the Contractor and their suppliers to fulfill the requirements specified will be considered incidental to related Contract items. No separate payment will be made.

Payment will not be made for any materials used to hold reinforcement in place or for extra GFRP reinforcement due to substitutions and splices made for the Contractor's convenience.

When GFRP is specified to be anchored into drilled holes, no additional payment will be made for drilling and anchoring GFRP reinforcement or cutting GFRP reinforcement.

Payment will be made under:

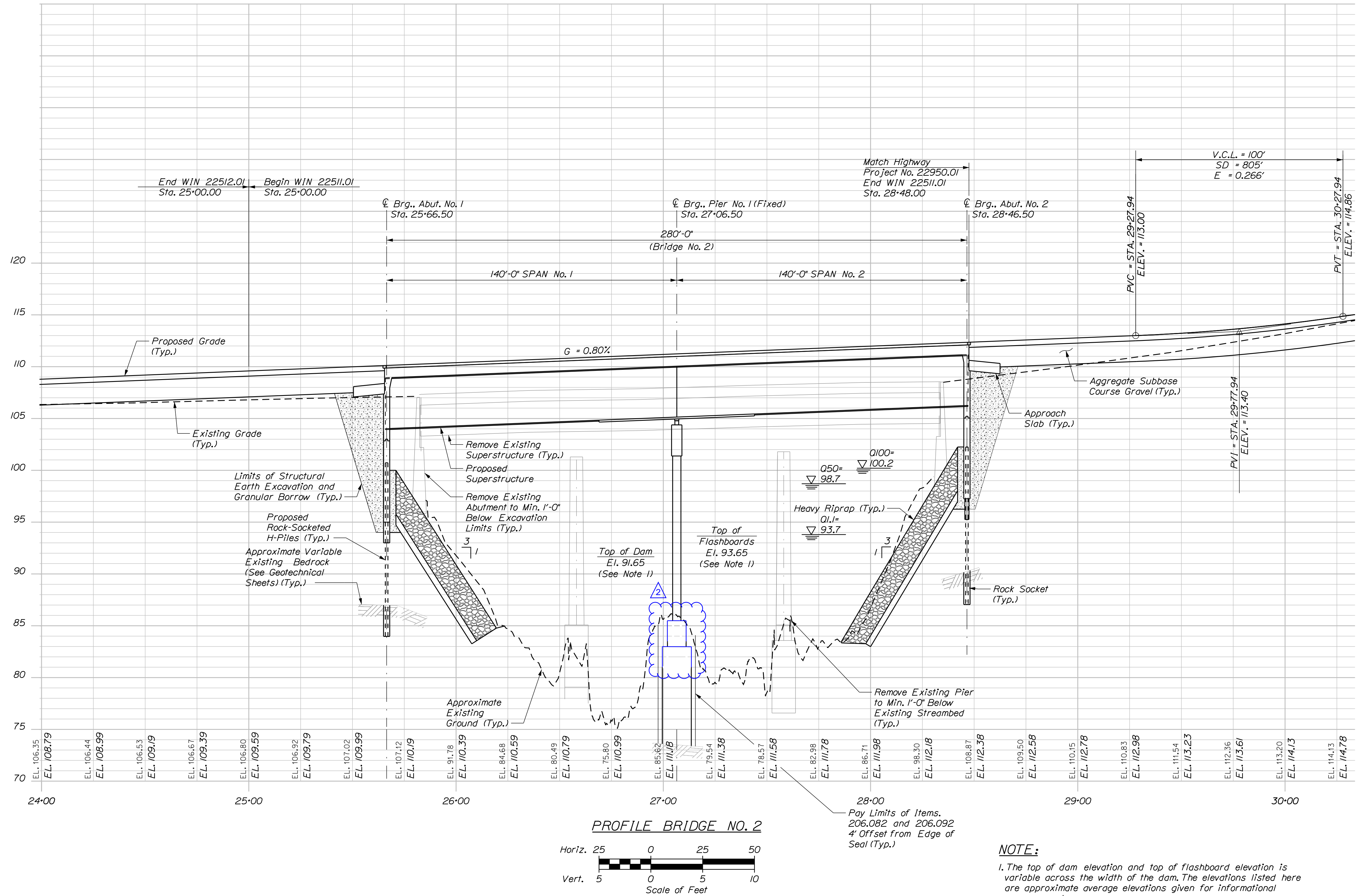
<u>Pay Item</u>	<u>Pay Unit</u>
530.30 GFRP, Reinforcement Bars, Fabricated & Delivered	Linear Foot
530.31 GFRP, Reinforcement Bars, Placing	Linear Foot

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	WIN			OLD TOWN POLLUTION CONTROL (SEWER)	OLD TOWN WATER DISTRICT	CONSOLIDATED COMMUNICATIONS OF NORTHERN NEW ENGLAND COMPANY	FIRSTLIGHT	TOTAL
			22950.01 HIGHWAY	022512.01 BRIDGE 1	022511.01 BRIDGE 2					
201.11	CLEARING	AC	1						1	
201.23	REMOVE SINGLE TREE TOP ONLY	EA	25						25	
201.24	REMOVE STUMP	EA	26						26	
202.08	REMOVING BUILDING NO. 1 (STILLWATER AVE, 35+30 LT)	EA	1						1	
202.08	REMOVING BUILDING NO. 2 (OLD MILL RD, 70+42 LT)	EA	1						1	
202.11	REMOVING PORTLAND CEMENT CONCRETE PAVEMENT	SY	2700						2700	
202.15	REMOVE MH OR CB	EA	12						13	
202.19	REMOVING EXISTING BRIDGE (Br.1: S=50 T, C=914 CY. Br.2: S=145 T, C=960 CY)	LS		1	1				1	
202.202	REMOVING PAVMENT SURFACE	SY	3900						3900	
202.203	PAVEMENT BUTT JOINT	SY	1160						1160	
203.20	COMMON EXCAVATION	CY	11200	1740	1890				14830	
203.2318	DISPOSAL OF SPECIAL WASTE	T			33				33	
203.25	GRANULAR BORROW	CY	50	2700	2700				5450	
203.35	CRUSHED STONE 3/4 - INCH	CY	20	39	39				98	
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES, PLAN QUANTITY	CY		1150	1550				2700	
206.092	STRUCTURAL ROCK EXCAVATION - MAJOR STRUCTURES	CY		10	190				200	
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY	10900	850	850		40		12640	
304.14	AGGREGATE SUBBASE COURSE - TYPE A	CY					15		15	
403.2081	12.5 MM POLYMER MODIFIED HMA	T	2200	104	204				2508	
403.209	HOT MIX ASPHALT 9.5 MM (INCIDENTALS)	T	590	6	6				612	
403.211	HOT MIX ASPHALT (SHIM)	T	1100				10		1100	
403.213	HOT MIX ASPHALT, 12.5 MM BASE	T	2700	60	60				2820	
409.15	BITUMINOUS TACK COAT, APPLIED	G	2370	48	95				2513	
461.131	TEMPORARY PAVEMENT	T		210	210				420	
501.237	NOISE ATTENUATION AND UNDERWATER NOISE MONITOR	LS		0.5	0.5				1	
501.502	ROCK SOCKETED H-PILES 117 LBS/FT, IN PLACE	LF		153	171				324	
501.54	STEEL H-BEAM PILES 117 LBS/FT, DELIVERED	LF		173	191				364	
501.804	DRILLING EQUIPMENT MOBILIZATION	LS		1	1				1	
502.239	STRUCTURAL CONCRETE ABUTMENTS AND KEY WALLS (Br.1 = 114 CY, Br.2 = 110 CY)	LS		4	1				1	
502.239	STRUCTURAL CONCRETE PIERS (Br.2 = 190 CY)	LS							1	
502.24	STRUCTURAL CONCRETE PIERS (PLACED UNDER WATER) (180)	CY			190				240	
502.26	SLAB ON STEEL BRIDGES (Br.1 = 243 CY, Br.2 = 450 CY)	LS		1	1				1	
502.31	STRUCTURAL CONCRETE APPROACH SLAB (Br.1 = 25 CY, Br.2 = 25 CY)	LS		1	1				1	
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (Br.1 = 48 CY, Br.2 = 102 CY)	LS		1	1				1	
502.77	FRP BRIDGE DRAIN - TYPE F	EA		2	4				6	
502.77	FRP BRIDGE DRAIN - TYPE B	EA		2	4				6	
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	LB	37500	63950	62700		100200		101450	
503.13	REINFORCING STEEL, PLACING	LB	37500	63950	62700		100200		101450	
503.26	STAINLESS STEEL REINFORCEMENT, FABRICATED AND DELIVERED	LB	62000	120900					182900	
503.27	STAINLESS STEEL REINFORCEMENT, PLACING	LB	62000	120900					182900	
504.702	STRUCTURAL STEEL FABRICATION AND DELIVERED (Br.1 = 273,000 LB, Br.2 = 626,000 LB)	LS		1	1				1	
504.71	STRUCTURAL STEEL ERECTION (Br.1 = 273,000 LB, Br.2 = 626,000 LB)	LS		1	1				1	
505.08	SHEAR CONNECTORS (Br.1 = 2,268 EA, Br.2 = 4,626 EA)	LS		1	1				1	
506.9104	THERMAL SPRAY COATING (SHOP APPLIED) (Br.1 = 2,273,000 LB, Br.2 = 626,000 LB)	LS		1	1				1	
507.08161	STEEL APPROACH RAILING, 4-BAR	EA		2	2				4	
507.0821	STEEL BRIDGE RAILING, 3 BAR (Br.1 = 128 LF, Br.2 = 283 LF)	LS		1	1				1	
507.0822	STEEL APPROACH RAILING, 3-BAR	EA		2	2				4	
507.0831	STEEL BRIDGE RAILING, 4 BAR (Br.1 = 128 LF, Br.2 = 283 LF)	LS		1	1				1	
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (Br.1 = 490 SY, Br.2 = 1,100 SY)	LS		1	1				1	
510.12	SPECIAL DETOUR, 30 FOOT ROADWAY WIDTH VEHICULAR AND PEDESTRIAN TRAFFIC SEPARATED WITH 5 FOOT SIDEWALK	LS		1	1				1	
511.07	COFFERDAM: BRIDGE 1, ABUTMENT NO. 1	LS		1					1	
511.07	COFFERDAM: BRIDGE 1, ABUTMENT NO. 2	LS		1					1	
511.07	COFFERDAM: BRIDGE 2, ABUTMENT NO. 1	LS			1				1	
511.07	COFFERDAM: BRIDGE 2, ABUTMENT NO. 2	LS			1				1	
511.07	COFFERDAM: BRIDGE 2, PIER NO. 1	LS			1				1	
513.22	CRUSHED STONE SLOPE PROTECTION	SY		50.0	50.0				100	
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (Br.1 = 410 SY, Br.2 = 750 SY)	LS		1	1				1	
519.60	EXPANSION DEVICE - ASPHALTIC PLUG JOINT	LF		90	81				171	
523.52	BEARING INSTALLATION	EA			6				6	
523.5401	LAMINATED ELASTOMERIC BEARINGS, FIXED	EA			6				6	
527.34	WORK ZONE CRASH CUSHIONS	UNIT		2	2				4	
603.159	12" CULVERT PIPE OPT III	LF	84						84	
603.165	15" RCP CLASS III	LF	40						40	
603.175	18" RCP CLASS III	LF	60	24	24				108	
603.179	18" CULVERT PIPE OPT III	LF	169						169	
604.072	CATCH BASIN TYPE A1-C	EA	11	0.5625	0.5625				12.125	
604.092	CATCH BASIN TYPE B1-C	EA	11						11	
604.164	REBUILDING CATCH BASIN	EA	4						4	
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	EA	10						10	
604.2406	STORMWATER PLANTER	EA	1						1	
604.245	TYPE F4-C	EA	2						2	
604.247	TYPE F5-C	EA	1						1	
604.249	TYPE F6-C	EA	1						1	
604.252	CATCH BASIN TYPE A5-C	EA	3	0.5625	0.5625				4.125	
604.262	CATCH BASIN TYPE B5-C	EA	2						2	
605.09	6" UNDERDRAIN TYPE B	LF	2150						2150	
605.11	12" UNDERDRAIN TYPE C	LF	1700						1700	
605.12	15" UNDERDRAIN TYPE C	LF	140						140	
606.1301	31" W-BEAM GUARDRAIL - MIDWAY SPLICE (STEEL POST, 8" OFF-BLOCK, SINGLE F)	LF	213	100	100				413	
606.1303	31" W-BEAM GUARDRAIL - MIDWAY SPLICE - 15' RADIUS AND LESS	LF	100						100	
606.1721	BRIDGE TRANSITION - TYPE I	EA		4	4				8	
606.259	ANCHORAGE ASSEMBLY	EA	4						4	
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	EA	4						4	
606.356	DELINEATOR POST	EA	4						4	
606.47	SINGLE WOOD POST	EA	6						6	
606.51	MULTIPLE MAILBOX SUPPORT	EA	4						4	
607.291	REMOVE AND RESET STONEWALL	LF	10						10	
607.42	ORNAMENTAL PICKET FENCE	LF	72						72	
608.26	CURB RAMP DETECTIBLE WARNING FIELD	SF	270						270	
609.11	VERTICAL CURB TYPE 1	LF	3,800	415	725				4940	
609.12	VERTICAL CURB TYPE 1 - CIRCULAR	LF	360						360	
609.221	TERMINAL CURB TYPE 1	LF	660						660	
609.222	TERMINAL CURB TYPE 1 - CIRCULAR	LF	130						130	
609.31	CURB TYPE 3	LF	1650						1650	

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	WIN			OLD TOWN POLLUTION CONTROL (SEWER)	OLD TOWN WATER DISTRICT	CONSOLIDATED COMMUNICATIONS OF NORTHERN NEW ENGLAND COMPANY	FIRSTLIGHT	TOTAL
			22950.01 HIGHWAY	022512.01 BRIDGE 1	022511.01 BRIDGE 2					
609.34	CURB TYPE 5	LF	190						190	
609.35	CURB TYPE 5 - CIRCULAR	LF	140						140	
610.08	PLAIN RIPRAP	CY	10	125	125				260	
610.16	HEAVY RIPRAP	CY		2350	2350				4700	
610.18	STONE DITCH PROTECTION	CY	26						26	
613.319	EROSION CONTROL BLANKET	SY	52						52	
615.07	LOAM	CY	900					5	905	
618.13	SEEDING METHOD NUMBER 1	UN	70					1	71	
619.12	MULCH	UN	70					1	71	
619.14	EROSION CONTROL MIX	CY		5	5				10	
620.58	EROSION CONTROL GEOTEXTILE	SY	80	2250	2250				4580	
620.60	SEPARATION GEOTEXTILE	SY	2000						2000	
620.66	DRAINAGE GEOCOMPOSITE	SY		180	190				370	
626.11	PRECAST CONCRETE JUNCTION BOX	EA	9						9	
626.22	NON-METALLIC CONDUIT	LF	525						525	
626.221	NON-METALLIC CONDUIT, CONCRETE ENCASED	LF	55						55	
626.251	NON-METALLIC UNDER PAVEMENT CONDUIT (SCHEDULE 80 OR GREATER RATING)	LF	450						450	
626.26	3 INCH DIAMETER UTILITY CONDUIT SYSTEM, TEMPORARY	LS						1	1	
626.271	5 INCH DIAMETER UTILITY CONDUIT SYSTEM, TEMPORARY	LS						1	1	
626.35	CONTROLLER CABINET FOUNDATION	EA	2						2	
626.36	REMOVE OR MODIFY CONCRETE FOUNDATION	EA	3						3	
626.421	24 INCH FOUNDATION	LF	77						77	
626.451	42 INCH FOUNDATION	LF	42						42	
626.46	48 INCH FOUNDATION	LF	23						23	
626.48	60 INCH FOUNDATION	LF	26						26	
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	LF	20000						20000	
627.75	WHITE PAVEMENT & CURB MARKING	SF	4225						4225	
627.78	4" TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LF	20000						20000	
627.94	PREFORMED THERMOPLASTIC PAVEMENT MARKING	SF	35						35	
629.05	HAND LABOR, STRAIGHT TIME	HR	80	20	20			3	123	
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR	80	20	20			3	123	
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	HR	160	20	20				200	
631.32	CULVERT CLEANER (INC. OPERATOR)	HR	40						40	
639.18	FIELD OFFICE TYPE A	EA	0.34	0.33	0.33				1	
642.15	PRECAST CONCRETE STEPS	EA	1						1	
643.21	NON-INVASIVE DETECTION - STOP BAR: STILLWATER AVE & BENNOCH ROAD	LS	1						1	
643.21	NON-INVASIVE DETECTION - STOP BAR: STILLWATER AVE & COLLEGE AVE	LS	1						1	
643.71	TRAFFIC SIGNAL MODIFICATION: STILLWATER AVE & BENNOCH RD	LS	1						1	
643.71	TRAFFIC SIGNAL MODIFICATION: STILLWATER AVE & COLLEGE AVE	LS	1						1	
643.72	TEMPORARY TRAFFIC SIGNAL: STILLWATER AVE & COLLEGE AVE	LS	1						1	
643.72	TEMPORARY TRAFFIC SIGNAL: STILLWATER AVE & BENNOCH RD	LS	1						1	
643.91	MAST ARM POLE, W/25' ARM	EA	3						3	
643.91	MAST ARM POLE, W/33' ARM	EA	1						1	
643.91	MAST ARM POLE, W/35' ARM	EA	2						2	
643.91	MAST ARM POLE, W/40' ARM	EA	1						1	
643.91	MAST ARM POLE, W/50' ARM	EA	1						1	
643.92	PEDESTAL POLE	EA	11						11	
645.103	DEMOUNT GUIDE SIGN	EA	31						31	
645.106	DEMOUNT REGULATORY, WARNING, CONFIRMATION, RTE ASSEMBLY SIGNS	EA	66						66	
645.108	DEMOUNT POLE	EA	2						2	
645.113	REINSTALL GUIDE SIGN	EA	13						13	
645.116	REINSTALL REGULATORY, WARNING, CONFIRMATION, RTE ASSEMBLY SIGN	EA	29						29	
645.251	ROADSIDE GUIDE SIGN, TYPE 1	SF	104						104	
645.271	REGULATORY, WARNING, CONFIRMATION, AND RTE ASSEMBLY SIGN, TYPE 1	SF	248						248	
645.512	LED BLANK-OUT SIGN, OVERHEAD MOUNTED	EA	1						1	
652.312	TYPE III BARRICADE	EA		3	3				6	
652.33	DRUM	EA	100	30	30				160	
652.34	CONE	EA	200	25	25				250	
652.35	CONSTRUCTION SIGNS	SF	1000	250	250				1500	
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	CD	350	293	293		10	45		



Pay Limits of Items.
 206.082 and 206.092
 4' Offset from Edge of
 Seal (Typ.)

NOTE:
 1. The top of dam elevation and top of flashboard elevation is variable across the width of the dam. The elevations listed here are approximate average elevations given for informational purposes only.

DESIGN-DETAILED	T.J. COOK	11/17/21
CHECKED-REVIEWED	P. DONOVAN	11/17/21
DESIGN-DETAILED	R.S. BLUNT	
DESIGN-DETAILED		
REVISIONS 1	Per Seal Ht. Adjustment	3/22/22
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

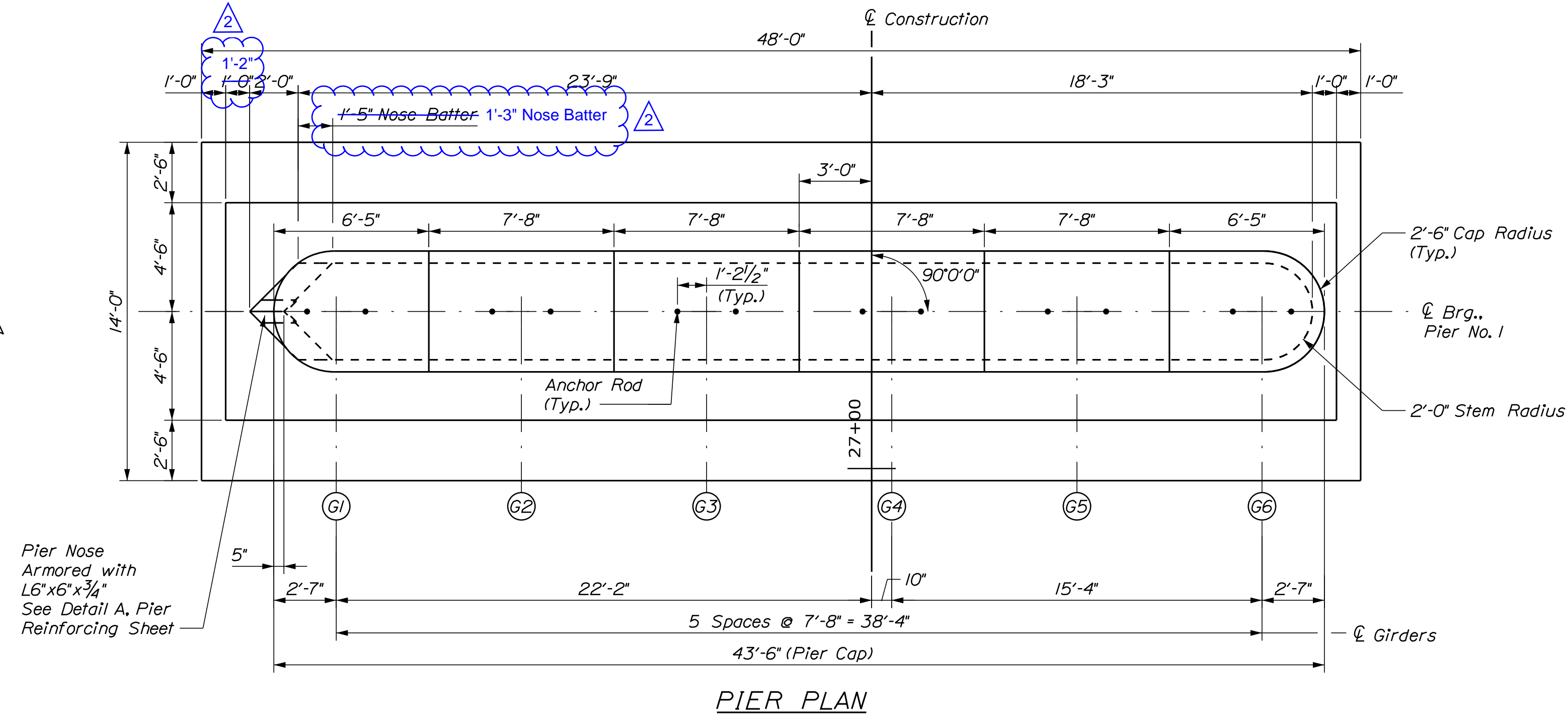
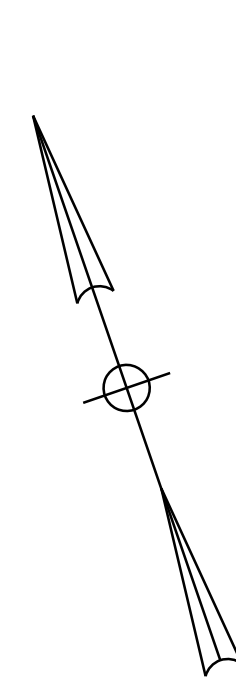
PROJ. MANAGER	MICHAEL WIGHT	BY		DATE	
DESIGN-DETAILED		CHECKED-REVIEWED		SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			

STILLWATER BRIDGES
 OVER STILLWATER RIVER
 OLD TOWN
 PENOBSCOT COUNTY
PROFILE (2 OF 2)

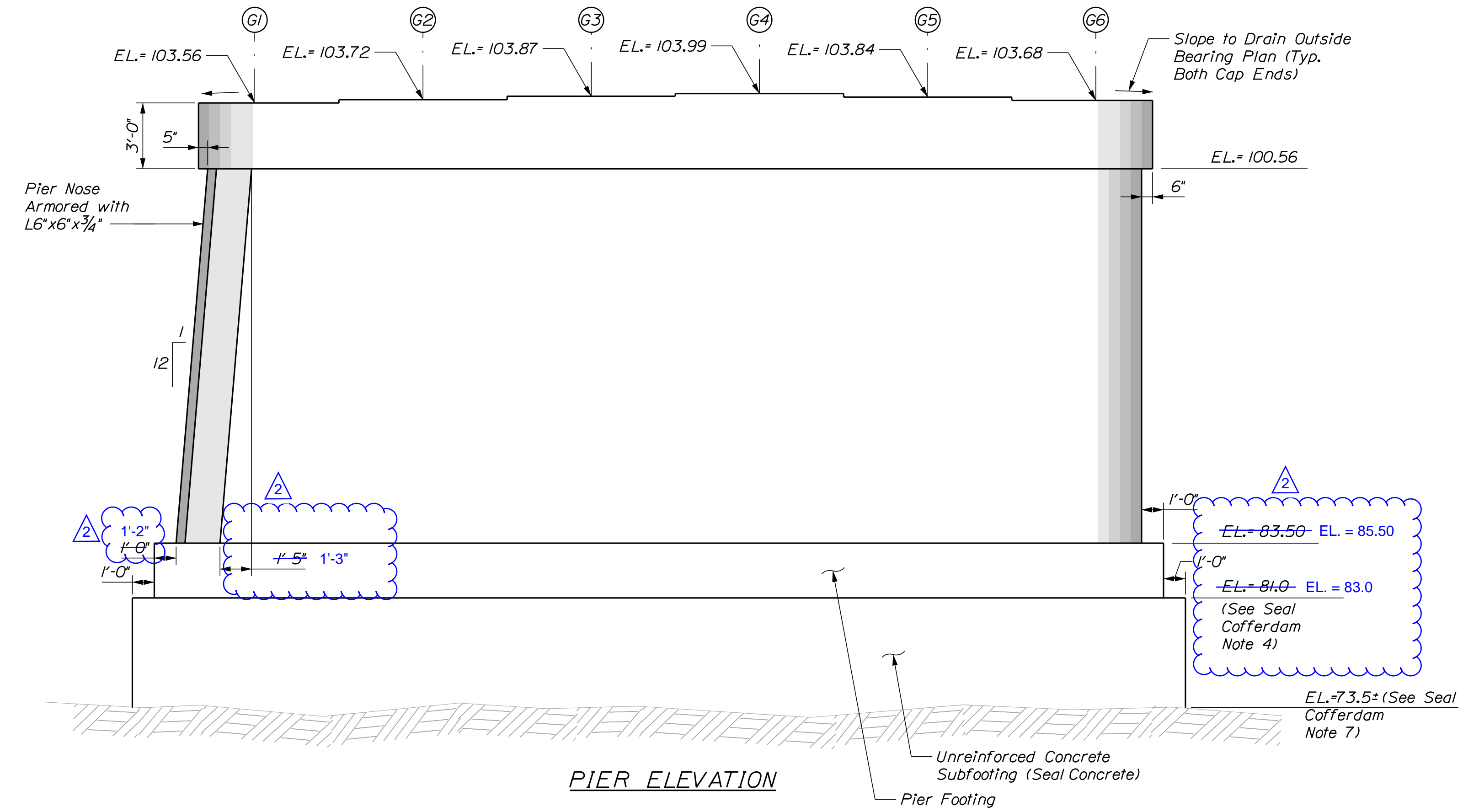
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Division: BRIDGE

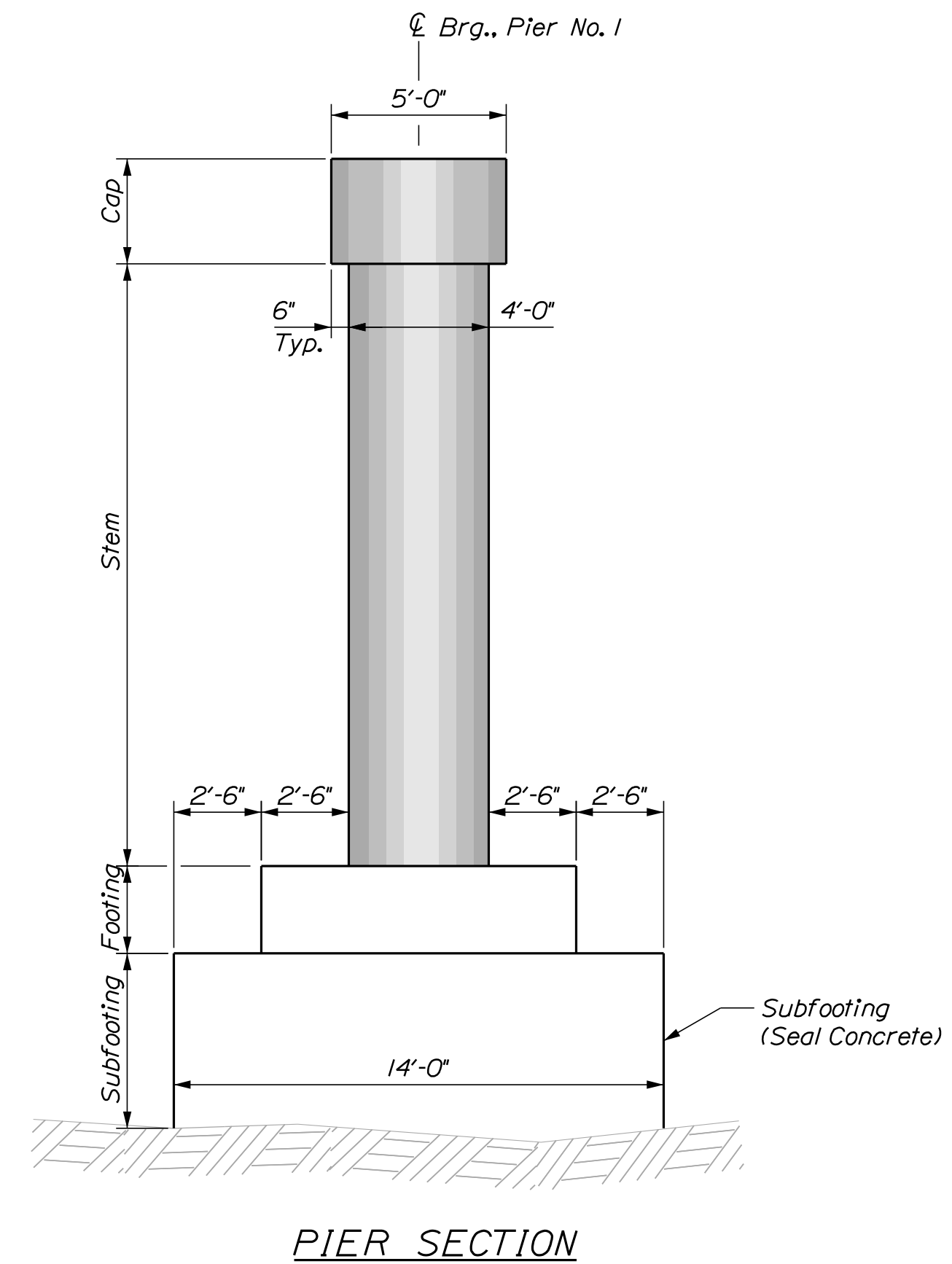
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PIER PLAN



PIER ELEVATION



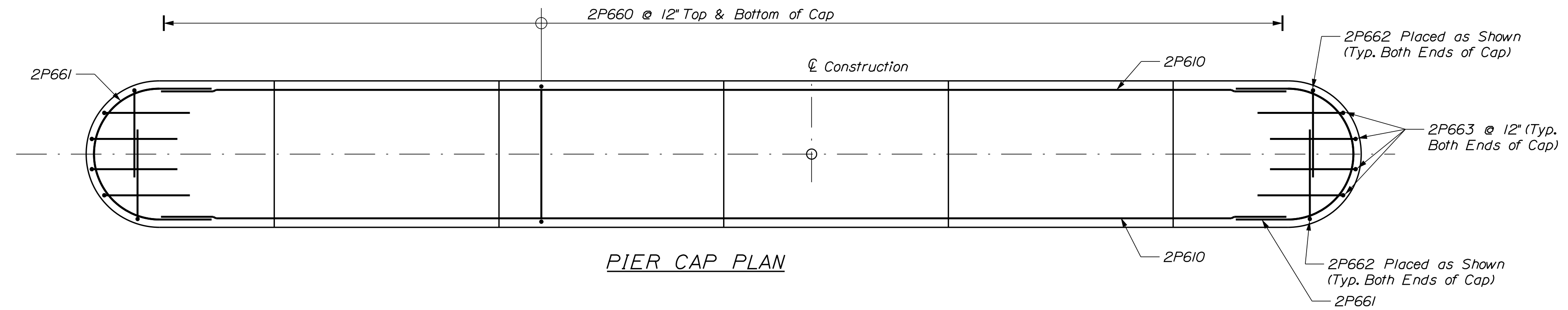
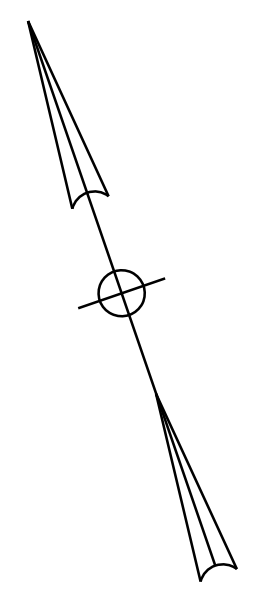
PIER SECTION

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BRIDGE NO. 1472		BRIDGE NO. 2806	
WIN 022512.01		WIN 022511.01	
BRIDGE PLANS			
PROJ. MANAGER	MICHAEL WIGHT	BY	DATE
DESIGN/DETAILED	CH. WALTON	P. DONOVAN	9/28/21
CHECKED/REVIEWED	CT. AYERS	RS. BLUNT	9/28/21
DESIGN/DETAILED			
REVISIONS 1	Pier Seal Ht. Adjustment		3/22/22
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
STILLWATER BRIDGE NO. 2		SIGNATURE	
OVER STILLWATER RIVER		P.E. NUMBER	
OLD TOWN		DATE	
PENOBSCOT COUNTY			
PIER PLAN, AND SECTION			
SHEET NUMBER			
195			
OF 45			

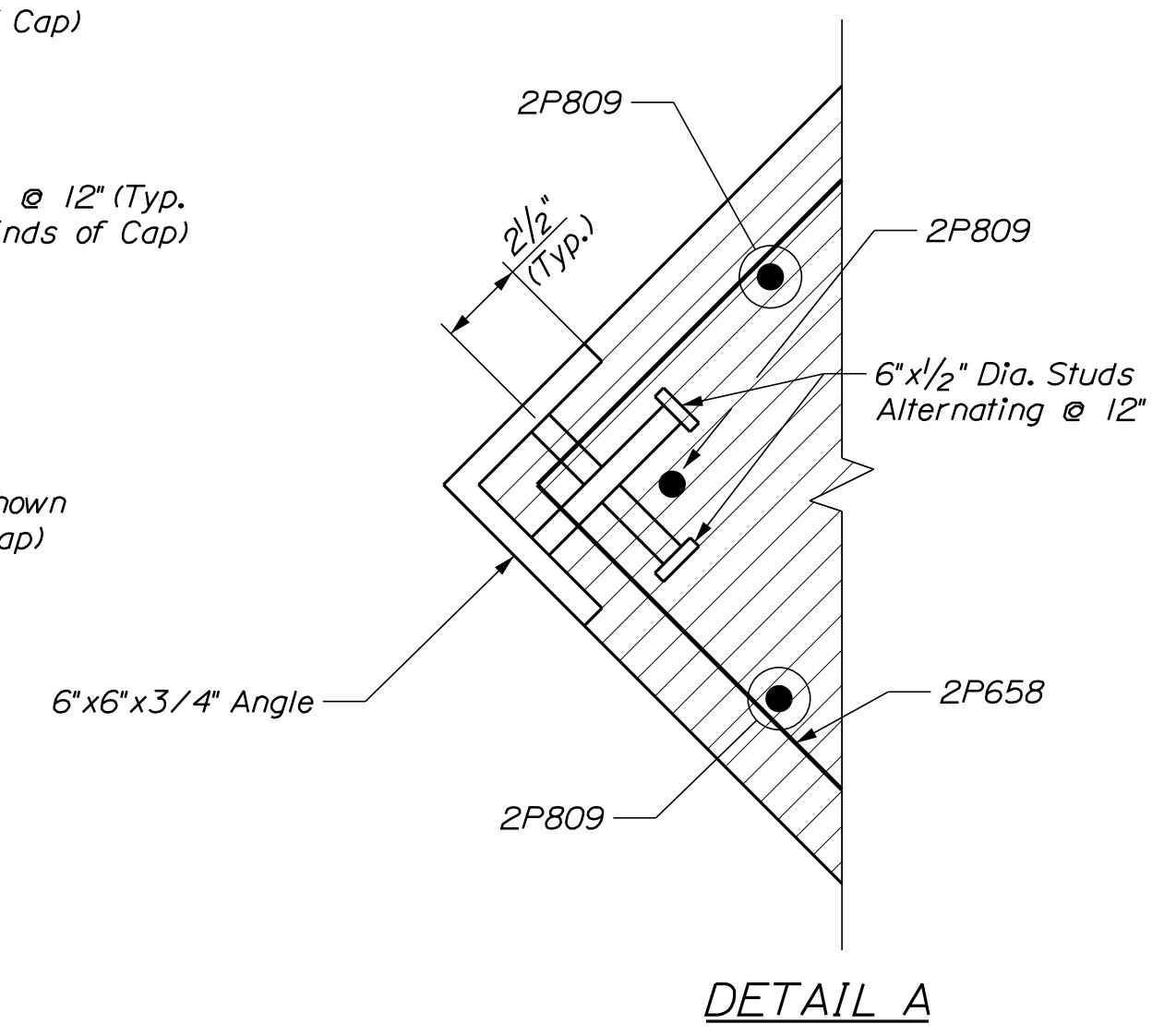
Date: 11/17/2021

Division: BRIDGE

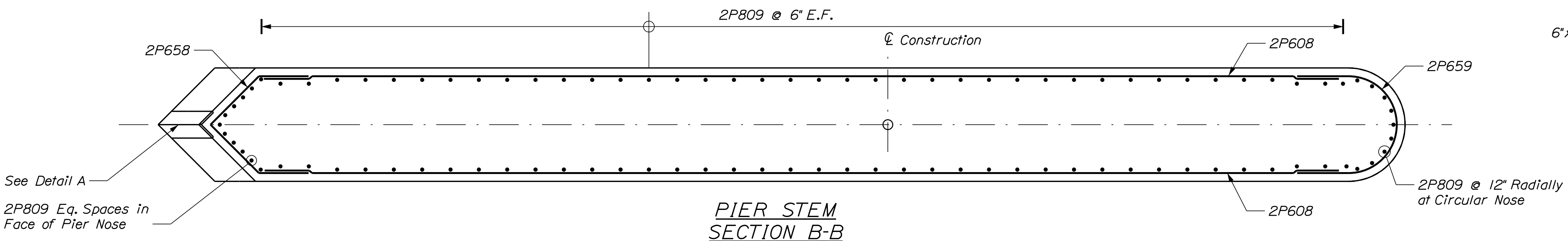
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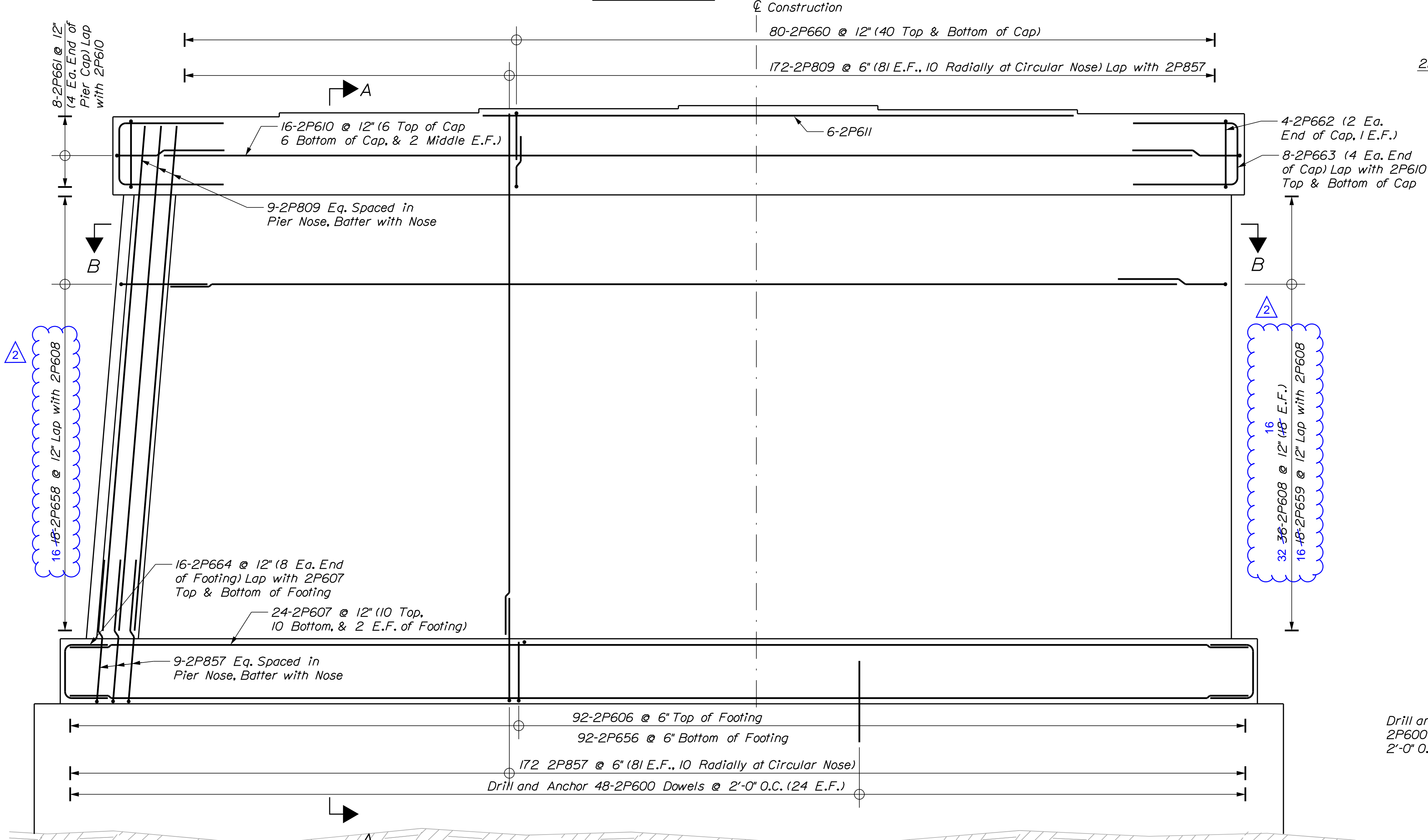
PIER CAP PLAN



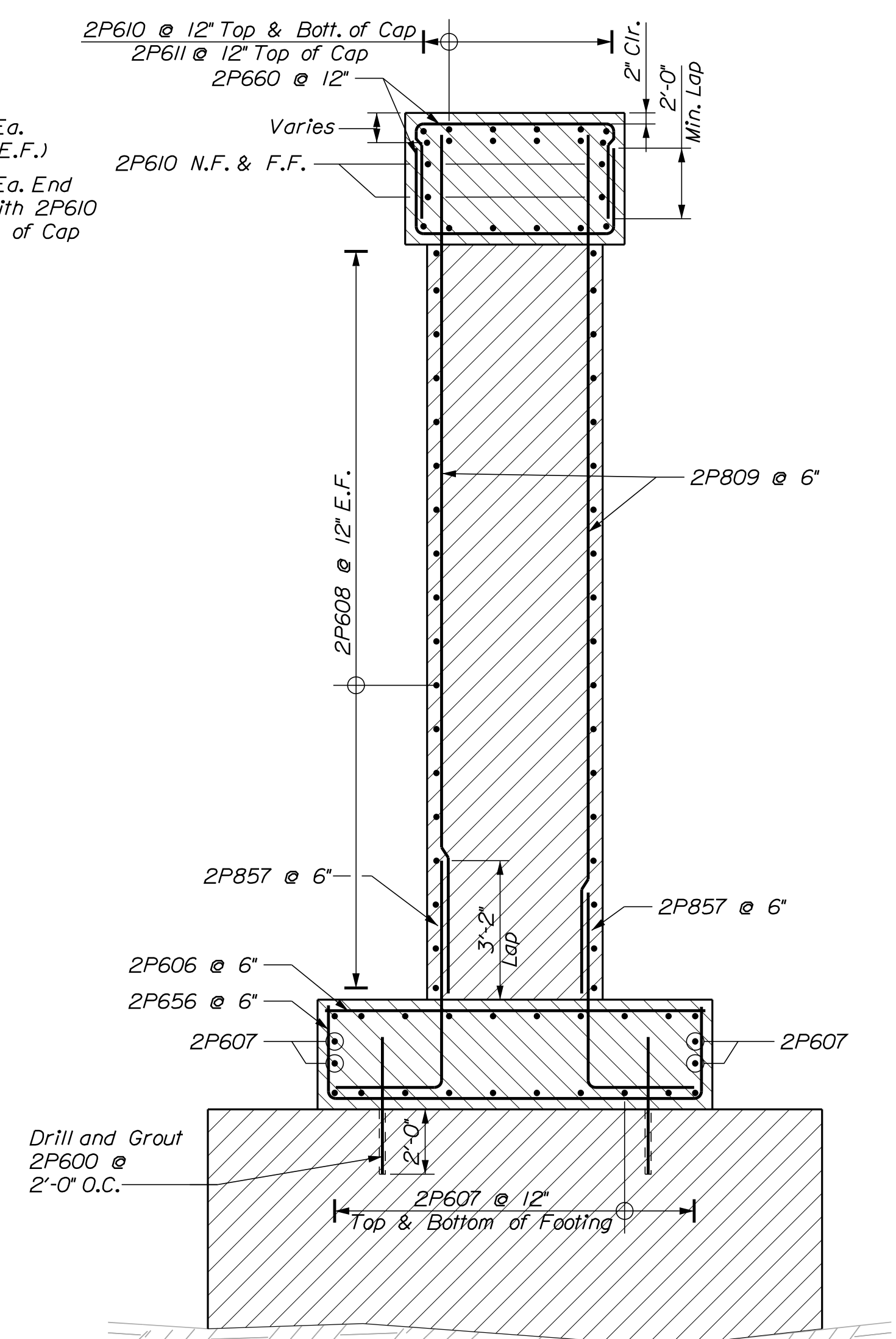
DETAIL A



PIER STEM SECTION B-B



PIER ELEVATION



SECTION A-A

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 1472		BRIDGE NO. 2806		WIN 022512.01		WIN 022511.01	
PROJ. MANAGER		MICHAEL WIGHT		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		CH. WALTON		9/28/21		RS BLUNT		3/22/22			
CHECKED-REVIEWED		P. DONOVAN		9/28/21							
DESIGN-DETAILED		CT. AYERS									
REVISIONS 1		Per Seal Ht. Adjustment		3/22/22							
REVISIONS 2											
REVISIONS 3											
REVISIONS 4											
FIELD CHANGES											
STILLWATER BRIDGE NO. 2				OVER STILLWATER RIVER				PENOBSCOT COUNTY			
OLD TOWN				PIER REINFORCING DETAILS				SHEET NUMBER			
								196			
								OF 45			

Date: 11/17/2021

Division: BRIDGE

Filename: ... \MSTA\206_Reinf_Sch_02.dgn

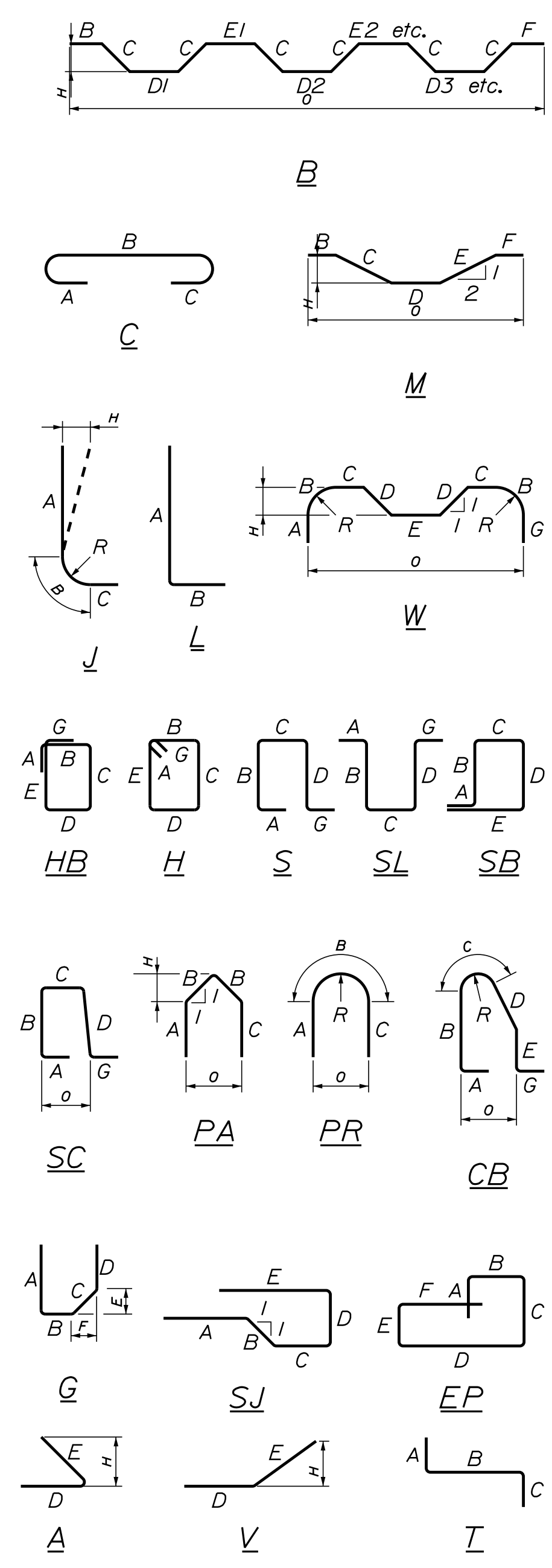
STRAIGHT BARS

BENT BARS

Table with columns: MARK, QTY., LENGTH, LOCATION. Rows include Abutment 1, Abutment 2, Pier, Deck Slab/Curb, and Approach Slab.

Table with columns: MARK, QTY., LENGTH, TYPE, A, B, C, D, E, F, G, H, O, R, LOCATION. Rows include Abutment 1, Abutment 2, Pier, Deck Slab/Curb, and Approach Slab.

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 A 615/A 615M, Grade 60 ASTM A 955, Grade 75

GENERAL NOTES

- 1. 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
2. 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 will be based on crank bars as scheduled on the plans.
3. Bar Marks ending in a letter indicate the following: ss = Stainless Steel G = GFRP

STATE OF MAINE DEPARTMENT OF TRANSPORTATION. STILLWATER BRIDGE NO. 2 OVER STILLWATER RIVER PENOBSCOT COUNTY OLD TOWN REINFORCING SCHEDULE SHEET NUMBER 206 OF 45. BRIDGE NO. 1472 BRIDGE NO. 2806 WIN 022512.01 WIN 022511.01