



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

Janet T. Mills  
GOVERNOR

Bruce A. Van Note  
COMMISSIONER

September 29, 2022  
Subject: Ticonic Bridge Replacement  
State WIN:023138.00  
Location: Winslow & Waterville  
**Amendment No. 2**

Dear Sir/Ms.:

Please make the following changes to bid documents:

In the Bid Book:

**REMOVE** from amendment No 1, Proposal Schedule of Items, 16 pages total, dated 09/12/2022 and **REPLACE** with the attached revised Proposal Schedule of Items, 16 pages total, dated 09/29/2022.

**REMOVE** pages 68 to 70, three pages in total titled SPECIAL PROVISION SECTION 104 GENERAL RIGHTS AND RESPONSIBILITIES dated August 15, 2022 and **REPLACE** with the attached SPECIAL PROVISION SECTION 104 GENERAL RIGHTS AND RESPONSIBILITIES dated September 29, 2022 three pages in total

**REMOVE** pages 88 to 92, five in total titled SPECIAL PROVISION SECTION 107 TIME dated August 16, 2022 and **REPLACE** with attached SPECIAL PROVISION SECTION 107 titled TIME dated September 29, 2022 five pages in total

**ADD** the attached SPECIAL PROVISION SECTION 910 SPECIAL WORK dated September 29, 2022

In the Plan Sheet:

**REMOVE** from Bid Amendment 1, ESTIMATED QUANTITIES 1, one page total, dated 09/20/2022 and **REPLACE** with the attached new page 2 of 111, ESTIMATED QUANTITIES 1, one page total, dated 09/29/2022.

The following questions have been received:

**Question:** SP 501 Micro piles

501.01, Page 1 of 20, paragraph 6, States micro pile may be omitted based on confirmatory core borings. Please confirm that micro pile may not be added a due to confirmatory borings south of the contraction joint resulting in a mobilization during that separate phase or work.

**Response:** Confirmation borings are not planned south of the contraction joint because the footing/sub-footing concrete will be supported directly on bedrock in this area. Micro piles will not be added south of the joint.

**Question:** SP 501 Micro piles Please clarify that the confirmatory borings will be backfilled with neat cement grout or similar.

**Response:** Confirmatory borings may be backfilled with a non-shrink, flow able, cementitious grout off of the Qualified Products List for Grout Materials.

**Question:** SP 501 Micro piles

501.041, Page 10 of 20, table lists coordinates for each primary and secondary core. We are interested to see where these cores are in reference to the micropile. Could a sketch of the cores and micro pile coordinates be made available? Alternatively, could the coordinates for each micro pile be provided to afford this comparison?

**Response:** The coordinates for each primary and secondary core are at the approximate center of each micro pile. A sketch showing the primary and secondary cores in relation to project baseline is included with this Addendum.

**Question:** The wage decision for this bid is for Highway work only. Please confirm that the wage decision for Heavy work is also applicable to this job due to the type of work. Please send the wage decision for Heavy to the bidders.

**Response:** The Construction Type stated in the Contract for wage determination made for this project shall remain as Highway.

**Question:** It is assumed detailed drawings of the existing arch are not available. We cannot find any details showing the thickness of the bottom "floor" of the arch. Please provide a thickness to be used as the basis of our bid for concrete demolition.

**Response:** Available as-builts have been provided with the project bid documents. Additionally, a geophysical evaluation of the arch was completed using ground penetrating radar. The results of that investigation are located in Appendix D of the geo technical design report.

**Question:** The Bid Book includes section 203.2318 (Disposal of Dredge Material) paid by the Ton; however there is no pay item for this on the SOI. Please add a pay item for this.

**Response:** Pay Item 203.2318 Disposal of Special Waste has been added with a 40 Ton estimated quantity.

**Question:** Page 312 of the Bid Book indicates there are “200-man days” paid by the Department for a railroad flagger; this is specifically in the KWD Water specification, and thus could be interpreted to be only relevant to work within railroad fowling distance for the KWD water scope of work. In the “bridge” utility special provision (104) there is discussion of setting up a barrier to avoid the need for a railroad flagger; however a flagger is needed until that barrier is set up. There is no discussion of the RR flagger being paid in the 104 special. **Please clarify this.**

**Response:** The document titled *Appendix E Protection of Railroad Traffic and Structures Special Provisions* (PRTS) is applicable to the entire project, not just the water main work. The document that the PRTS is an appendix to does not get included in the bid book. Setting up the barrier would be considered work taking place within 15 feet of the centerline of gauge, thereby requiring a flagger.

**Question:** If railroad flaggers for the entire scope of work is to be paid within the 200-man days referenced on page 312 of the SP; the Department should include more man-days due to the fact that cranes working in the approach will be considered fowling (per SP 104). **Please Clarify Intent and total man-days covered by the Department.**

**Response:** The intent of the Contract is as stated in Section 14(a) in the PRTS on page 312 of the bid book and the 200-man days applies to the entire Contract.

**Question:** Special Provision section 524 (Temp. Access) states that upon removal; slopes shall be “...restored with rip rap...” as required by the “Contractor’s engineer.”; followed by “...restored to the satisfaction of the Resident...”. If the Contractor’s engineer doesn’t require stone based on the access design, but the Resident does, this Resident required stone should be paid for at a unit rate. **Please confirm pay item for payment if required by Resident.**

**Response:** Slopes steeper than 2H:1V shall be stabilized using rip rap or an alternate slope stabilization method designed by a licensed professional engineer specializing in geotechnical engineering. The proposed stabilization methods and limits of work shall be established in the temporary access submittal provided by the Contractor for review and approval. The Resident will be responsible for confirming the work is completed in accordance with the project specifications, the approved temporary access submittal, and generally accepted construction practices. Rip rap and other materials required for slope stabilization will not be measured for payment separately but shall be incidental to the Temporary Access Pay Item.

**Question:** In the general notes (sheet 4) under the Traffic Signal Notes section, note #11, Equipment, Section b there are references to new wood pole, span wire and signals to provide temporary and permanent signal systems. Based on the list of work items no new wood poles or span wire are called for and temporary traffic systems do not appear necessary. **Can you clarify?**

**Response:** The Traffic Control Plans show the signal in its existing condition without improvements from the Build Grant signal project. If the Build Grant work is completed prior to Stage 2 construction, a temporary structure with span wires is anticipated. If required, the associated work will be measured for payment under Item 643.711.

**Question:** The Benton Avenue/Clinton Avenue/Bay Street intersection in Winslow is scheduled to be upgraded to an ATC cabinet and controller. **Is it anticipated that this work will be completed prior to or during the bridge work?**

**Response:** The plans show the existing condition without the proposed improvements to the ATC cabinet and controller that will be completed by others at the Benton Ave / Clinton Ave / Bay Street Intersection. These improvements are anticipated to be completed concurrent with construction of the Ticonic Bridge. The Contractor shall coordinate with the intersection improvement project; contacts are noted in Special Provision 104 (General Duty to Cooperate).

**Question:** Will the use and maintenance of "wet roads" as discussed in Section 105 of the special provisions be permitted outside of the specified in-water work window for the project?

**Response:** Use and maintenance of the wet roads outside of the specified in-water work window will be allowed provided the work occurs in the dry and does not result in turbidity releases in the water.

**Question:** Please confirm the datum used for the current design of the project is NAVD 88.

**Response:** The Plans for replacement of the Ticonic Bridge are based on the NAVD 88 datum. The existing plans and reference materials provided may be under a different datum.

**Question:** The table located in Specification Section 105, General Scope of Work, shows the In-Water work Windows for various activities. It states work within a cofferdam can occur at any time. Note 2 states that "Activities that could result in in-water noise louder than 150db RMS or increase in turbidity shall be avoided from April 1 - August 31." Special Condition Note 22 states, "Bedrock leveling using hydraulic breakers or other exceedance noise generating methods will occur within the in-water work window (September 1 to March 31) and within a cofferdam." However, during the months of historically lower water in the river, the bedrock is likely to be exposed and out of the water. Please clarify whether bedrock leveling using hydraulic breakers or other exceedance noise generating devices may occur any time of year if the bedrock is exposed above low water.

**Response:** Bedrock leveling may have the same noise effects whether it is above low water or under the water. Activities that may result in in-water noise louder than the 150 dB RMS are subject to the in-water work window requirements.

**Question:** Please provide the Biological Assessment for Atlantic and Short nose Sturgeon referenced in Special Condition No. 7 of the Army Corps of Engineers Permit for the project.

**Response:** The biological assessment is posted to the Department's website for information only.

**Question:** The "Existing Section" Sheet 23 calls out the Existing CMP Conduits just South of the Existing Centerline of Route 201 to be abandoned. The Utility Stage shown at the bottom of the same sheet does not call the same conduits out as abandoned. Please confirm these conduits are in-fact abandoned.

**Response:** The existing CMP conductors and conduits on the bridge are de-energized and abandoned.

**Question:** Section 107.3.1, subsection 2 states, "The Contractor will be allowed to install temporary lane closures on the Ticonic Bridge at the times outlined below to accommodate work activities that, in the opinion of the Department, cannot be reasonably or safely completed with all lanes of traffic open." If the Contractors means and methods require a temporary lane closure be in place to safely execute a piece of the work, will the Department approve said lane closure?

If the lane closure is not approved, thus requiring the contractor to materially change their means and methods to execute the work, will the Contractor be compensated in both time and money for the change dictated by the Department?

**Response:** This question is addressed in the updated Special Provision 107, Time (Work Times), included with this addendum.

**Question:** It is stated in SPECIAL PROVISIONS SECTION 104 Utilities, Kennebec Sanitary Treatment District has an interceptor sanitary facility which will remain in place during construction and must remain in operation, and the manhole will need to remain accessible during the project. Furthermore, the specification states it will be the responsibility of the Contractor to protect the facility from any damage during bridge construction, and that results from a camera inspection are available upon request from Kennebec Sanitary Treatment District. Please provide the results from referenced Camera inspection and record drawings. Thank you.

**Response:** Record plan and reports related to the inspection of the KSTD sewer interceptor have been posted to the Department's website.

Consider these changes and information prior to submitting your bid on October 12 , 2022.

Sincerely,



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

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023138.00

Project(s): 023138.00

SECTION: 1 INITIAL GROUP

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)	1,300.000 LF	_____	 _____	_____	 _____
0020	202.15 REMOVING EXISTING MANHOLE OR CATCH BASIN	7.000 EA	_____	 _____	_____	 _____
0030	202.19 REMOVING EXISTING BRIDGE	LUMP SUM		 LUMP SUM	_____	 _____
0040	202.19 REMOVING EXISTING BRIDGE ARCH STRUCTURE	LUMP SUM		 LUMP SUM	_____	 _____
0050	202.202 REMOVING PAVEMENT SURFACE	1,250.000 SY	_____	 _____	_____	 _____
0060	203.20 COMMON EXCAVATION	2,550.000 CY	_____	 _____	_____	 _____
0070	203.21 ROCK EXCAVATION	50.000 CY	_____	 _____	_____	 _____
0080	203.2318 DISPOSAL OF SPECIAL WASTE	40.000 T	_____	 _____	_____	 _____
0090	203.25 GRANULAR BORROW	1,200.000 CY	_____	 _____	_____	 _____
0100	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	3,700.000 CY	_____	 _____	_____	 _____
0110	206.092 STRUCTURAL ROCK EXCAVATION - MAJOR STRUCTURES	360.000 CY	_____	 _____	_____	 _____
0120	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	1,950.000 CY	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0130	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	670.000 T	_____	 _____	_____	 _____
0140	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	71.000 T	_____	 _____	_____	 _____
0150	403.211 HOT MIX ASPHALT (SHIMMING)	35.000 T	_____	 _____	_____	 _____
0160	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	920.000 T	_____	 _____	_____	 _____
0170	409.15 BITUMINOUS TACK COAT - APPLIED	690.000 G	_____	 _____	_____	 _____
0180	461.131 TEMPORARY PAVEMENT	49.000 T	_____	 _____	_____	 _____
0190	501.222 MICROPILES	670.000 LF	_____	 _____	_____	 _____
0200	501.2221 ABANDONED MICROPILES	50.000 LF	_____	 _____	_____	 _____
0210	501.2331 MICROPILE VERIFICATION LOAD TEST	1.000 EA	_____	 _____	_____	 _____
0220	501.25 STEEL CASING 12 INCH GALV	42.000 LF	_____	 _____	_____	 _____
0230	501.25 STEEL CASING 24 INCH GALV	32.000 LF	_____	 _____	_____	 _____
0240	501.804 DRILLING EQUIPMENT MOBILIZATION	LUMP SUM	LUMP SUM		_____	 _____

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			Dollars	Cents	Dollars	Cents
0250	501.83 DRILLED SHAFT CONFIRMATORY BORINGS	660.000 LF	_____	 _____	_____	 _____
0260	502.21 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	560.000 CY	_____	 _____	_____	 _____
0270	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP SUM		LUMP SUM	_____	 _____
0280	502.23 STRUCTURAL CONCRETE PIERS	16.000 CY	_____	 _____	_____	 _____
0290	502.239 STRUCTURAL CONCRETE PIERS	LUMP SUM		LUMP SUM	_____	 _____
0300	502.24 STRUCTURAL CONCRETE PIERS (PLACED UNDER WATER)	730.000 CY	_____	 _____	_____	 _____
0310	502.26 STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLABS ON STEEL BRIDGES	LUMP SUM		LUMP SUM	_____	 _____
0320	502.31 STRUCTURAL CONCRETE APPROACH SLABS	LUMP SUM		LUMP SUM	_____	 _____
0330	502.341 STRUCTURAL CONCRETE ROADWAY MEDIAN	5.000 CY	_____	 _____	_____	 _____
0340	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALKS	LUMP SUM		LUMP SUM	_____	 _____
0350	502.77 FIBER REINFORCED POLYMER BRIDGE DRAIN - TYPE: G	8.000 EA	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0360	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	108,700.000 LB	_____	 _____	_____	 _____
0370	503.13 REINFORCING STEEL, PLACING	108,700.000 LB	_____	 _____	_____	 _____
0380	503.17 MECHANICAL WELDED SPLICE	2,286.000 EA	_____	 _____	_____	 _____
0390	503.19 LOW-CARBON, CHROMIUM REINFORCEMENT - FABRICATED & DELIVERED	510,300.000 LB	_____	 _____	_____	 _____
0400	503.20 LOW-CARBON, CHROMIUM REINFORCEMENT - PLACING	510,300.000 LB	_____	 _____	_____	 _____
0410	504.702 STRUCTURAL STEEL FABRICATED AND DELIVERED, WELDED	LUMP SUM		LUMP SUM	_____	 _____
0420	504.71 STRUCTURAL STEEL ERECTION	LUMP SUM		LUMP SUM	_____	 _____
0430	505.08 SHEAR CONNECTORS	LUMP SUM		LUMP SUM	_____	 _____
0440	506.9104 THERMAL SPRAY COATING - SHOP APPLIED	LUMP SUM		LUMP SUM	_____	 _____
0450	507.0834 WYOMING STEEL BRIDGE RAILING	LUMP SUM		LUMP SUM	_____	 _____
0460	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP SUM		LUMP SUM	_____	 _____

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			Dollars	Cents	Dollars	Cents
0470	511.07 COFFERDAM: ABUT NO.1	LUMP SUM	LUMP	SUM	_____	_____
0480	511.07 COFFERDAM: ABUT NO.2	LUMP SUM	LUMP	SUM	_____	_____
0490	511.07 COFFERDAM: EXIST PIER 1 REMOVAL	LUMP SUM	LUMP	SUM	_____	_____
0500	511.07 COFFERDAM: PIER	LUMP SUM	LUMP	SUM	_____	_____
0510	511.07 COFFERDAM: RIPRAP AND BR REMOVAL	LUMP SUM	LUMP	SUM	_____	_____
0520	512.081 FRENCH DRAINS	LUMP SUM	LUMP	SUM	_____	_____
0530	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP SUM	LUMP	SUM	_____	_____
0540	521.23 EXPANSION DEVICE FINGER JOINT	2.000 EA	_____	_____	_____	_____
0550	523.52 BEARING INSTALLATION	27.000 EA	_____	_____	_____	_____
0560	523.5551 POT OR DISC BEARINGS, FIXED	9.000 EA	_____	_____	_____	_____
0570	523.5552 POT OR DISC BEARINGS, EXPANSION	18.000 EA	_____	_____	_____	_____
0580	524.301 TEMPORARY STRUCTURAL SUPPORT ABUT NO.1	LUMP SUM	LUMP	SUM	_____	_____

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			Dollars	Cents	Dollars	Cents
0590	524.301 TEMPORARY STRUCTURAL SUPPORT ABUT NO.2	LUMP SUM	LUMP	SUM	_____	_____
0600	524.301 TEMPORARY STRUCTURAL SUPPORT CLOSURE WALL	LUMP SUM	LUMP	SUM	_____	_____
0610	524.301 TEMPORARY STRUCTURAL SUPPORT CONSOLIDATED COMMUNICATIONS	LUMP SUM	LUMP	SUM	_____	_____
0620	524.304 TEMPORARY ACCESS CONSTRUCTION	LUMP SUM	LUMP	SUM	_____	_____
0630	526.301 PORTABLE CONCRETE BARRIER TYPE I	LUMP SUM	LUMP	SUM	_____	_____
0640	526.304 PORTABLE CONCRETE BARRIER, ANCHORED TYPE 1	LUMP SUM	LUMP	SUM	_____	_____
0650	526.34 PERMANENT CONCRETE TRANSITION BARRIER	4.000 EA	_____	_____	_____	_____
0660	527.34 WORK ZONE CRASH CUSHIONS	3.000 UN	_____	_____	_____	_____
0670	602.30 FLOWABLE CONCRETE FILL	40.000 CY	_____	_____	_____	_____
0680	603.155 12 INCH REINFORCED CONCRETE PIPE CLASS III	70.000 LF	_____	_____	_____	_____
0690	603.159 12 INCH CULVERT PIPE OPTION III	26.000 LF	_____	_____	_____	_____

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			Dollars	Cents	Dollars	Cents
0700	603.169 15 INCH CULVERT PIPE OPTION III	44.000 LF	_____	 _____	_____	 _____
0710	603.179 18 INCH CULVERT PIPE OPTION III	64.000 LF	_____	 _____	_____	 _____
0720	603.199 24 INCH CULVERT PIPE OPTION III	52.000 LF	_____	 _____	_____	 _____
0730	604.072 CATCH BASIN TYPE A1-C	3.700 EA	_____	 _____	_____	 _____
0740	604.092 CATCH BASIN TYPE B1-C	2.000 EA	_____	 _____	_____	 _____
0750	604.16 ALTERING CATCH BASIN TO MANHOLES	2.000 EA	_____	 _____	_____	 _____
0760	604.164 REBUILDING CATCH BASIN	2.000 EA	_____	 _____	_____	 _____
0770	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	3.000 EA	_____	 _____	_____	 _____
0780	604.247 CATCH BASIN TYPE F5-C	1.000 EA	_____	 _____	_____	 _____
0790	604.249 CATCH BASIN TYPE F6-C	1.000 EA	_____	 _____	_____	 _____
0800	604.252 CATCH BASIN TYPE A5-C	4.200 EA	_____	 _____	_____	 _____
0810	605.09 6 INCH UNDERDRAIN TYPE B	350.000 LF	_____	 _____	_____	 _____
0820	605.11 12 INCH UNDERDRAIN TYPE C	60.000 LF	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0830	605.12 15 INCH UNDERDRAIN TYPE C	44.000 LF	_____	_____	_____	_____
0840	605.15 24 INCH UNDERDRAIN TYPE C	48.000 LF	_____	_____	_____	_____
0850	606.1301 31" W-BM GR, MID-WAY SPLICE-SGL FACED	79.000 LF	_____	_____	_____	_____
0860	606.1304 31" W-BM GR, MID-WAY SPLICE-OVER 15' RAD	25.000 LF	_____	_____	_____	_____
0870	606.1306 31" W-BM GR, MID-WAY SPLICE TANGENT TERMINAL	3.000 EA	_____	_____	_____	_____
0880	606.1307 BRIDGE TRANSITION (ASYMMETRICAL) - TYPE 1A	2.000 EA	_____	_____	_____	_____
0890	606.1307 BRIDGE TRANSITION (ASYMMETRICAL) - TYPE 1A MODIFIED	2.000 EA	_____	_____	_____	_____
0900	606.259 ANCHORAGE ASSEMBLY	1.000 EA	_____	_____	_____	_____
0910	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	7.000 EA	_____	_____	_____	_____
0920	606.356 UNDERDRAIN DELINEATOR POST	2.000 EA	_____	_____	_____	_____
0930	606.47 SINGLE WOOD POST	1.000 EA	_____	_____	_____	_____

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			Dollars	Cents	Dollars	Cents
0940	607.17 CHAIN LINK FENCE - 6 FOOT	35.000 LF	_____	 _____	_____	 _____
0950	608.26 CURB RAMP DETECTABLE WARNING FIELD	98.000 SF	_____	 _____	_____	 _____
0960	609.12 VERTICAL CURB TYPE 1 - CIRCULAR	4.000 LF	_____	 _____	_____	 _____
0970	609.221 TERMINAL CURB TYPE 1	31.000 LF	_____	 _____	_____	 _____
0980	609.222 TERMINAL CURB TYPE 1 - CIRCULAR	38.000 LF	_____	 _____	_____	 _____
0990	609.31 CURB TYPE 3	330.000 LF	_____	 _____	_____	 _____
1000	609.38 RESET CURB TYPE 1	520.000 LF	_____	 _____	_____	 _____
1010	609.40 RESET CURB TYPE 5	460.000 LF	_____	 _____	_____	 _____
1020	610.08 PLAIN RIPRAP	11.000 CY	_____	 _____	_____	 _____
1030	610.16 HEAVY RIPRAP	260.000 CY	_____	 _____	_____	 _____
1040	610.18 STONE DITCH PROTECTION	5.000 CY	_____	 _____	_____	 _____
1050	613.319 EROSION CONTROL BLANKET	190.000 SY	_____	 _____	_____	 _____
1060	615.07 LOAM	67.000 CY	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
1070	618.13 SEEDING METHOD NUMBER 1	2.000 UN	_____	 _____	_____	 _____
1080	618.14 SEEDING METHOD NUMBER 2	11.000 UN	_____	 _____	_____	 _____
1090	619.12 MULCH	13.000 UN	_____	 _____	_____	 _____
1100	620.58 EROSION CONTROL GEOTEXTILE	227.000 SY	_____	 _____	_____	 _____
1110	620.66 DRAINAGE GEOCOMPOSITE	110.000 SY	_____	 _____	_____	 _____
1120	623.11 REMOVE AND LOAD MONUMENT	LUMP SUM		 LUMP SUM	_____	 _____
1130	626.11 PRECAST CONCRETE JUNCTION BOX	4.000 EA	_____	 _____	_____	 _____
1140	626.21 METALLIC CONDUIT	20.000 LF	_____	 _____	_____	 _____
1150	626.22 NON-METALLIC CONDUIT	1,400.000 LF	_____	 _____	_____	 _____
1160	626.421 24 INCH DIAMETER FOUNDATION	28.000 LF	_____	 _____	_____	 _____
1170	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	6,400.000 LF	_____	 _____	_____	 _____
1180	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	1,900.000 SF	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
1190	627.77 REMOVING PAVEMENT MARKINGS	1,450.000 SF	_____	 _____	_____	 _____
1200	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	10,000.000 LF	_____	 _____	_____	 _____
1210	629.05 HAND LABOR, STRAIGHT TIME	140.000 HR	_____	 _____	_____	 _____
1220	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
1230	631.11 AIR TOOL (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
1240	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
1250	631.14 GRADER (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
1260	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	220.000 HR	_____	 _____	_____	 _____
1270	631.22 FRONT END LOADER (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
1280	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
1290	634.160 HIGHWAY LIGHTING	LUMP SUM		 LUMP SUM	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023138.00

Project(s): 023138.00

SECTION: 1 INITIAL GROUP

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
1300	634.70 ORNAMENTAL LIGHTING	15.000 EA	_____	 _____	_____	 _____
1310	639.18 FIELD OFFICE TYPE A	1.000 EA	_____	 _____	_____	 _____
1320	643.71 TRAFFIC SIGNAL MODIFICATION BRIDGE ST/ BENTON AVE/ CLINTON AVE/ BAY ST	LUMP SUM	LUMP	 SUM	_____	 _____
1330	643.71 TRAFFIC SIGNAL MODIFICATION CARTER MEMORIAL DR/ AUGUSTA RD	LUMP SUM	LUMP	 SUM	_____	 _____
1340	643.711 TRAFFIC SIGNAL MODIFICATION (TEMPORARY) BRIDGE ST/ BENTON AVE/ CLINTON AVE/ BAY ST	LUMP SUM	LUMP	 SUM	_____	 _____
1350	643.711 TRAFFIC SIGNAL MODIFICATION (TEMPORARY) SPRING ST/ MAIN ST/ WATER ST/ FRONT ST/ BRIDGE ST	LUMP SUM	LUMP	 SUM	_____	 _____
1360	643.713 TEMPORARY EMERGENCY SYSTEM PREEMPTION MODIFICATION	LUMP SUM	LUMP	 SUM	_____	 _____
1370	645.103 DEMOUNT GUIDE SIGN	15.000 EA	_____	 _____	_____	 _____
1380	645.106 DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	53.000 EA	_____	 _____	_____	 _____
1390	645.108 DEMOUNT POLE	12.000 EA	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023138.00

Project(s): 023138.00

SECTION: 1 INITIAL GROUP

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
1400	645.113 REINSTALL GUIDE SIGN	15.000 EA	_____	 _____	_____	 _____
1410	645.116 REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	41.000 EA	_____	 _____	_____	 _____
1420	645.118 REINSTALL POLE	11.000 EA	_____	 _____	_____	 _____
1430	645.292 REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS TYPE II	80.000 SF	_____	 _____	_____	 _____
1440	652.312 TYPE III BARRICADE	12.000 EA	_____	 _____	_____	 _____
1450	652.33 DRUM	70.000 EA	_____	 _____	_____	 _____
1460	652.34 CONE	70.000 EA	_____	 _____	_____	 _____
1470	652.35 CONSTRUCTION SIGNS	1,200.000 SF	_____	 _____	_____	 _____
1480	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP SUM		 LUMP SUM	_____	 _____
1490	652.38 FLAGGER	500.000 HR	_____	 _____	_____	 _____
1500	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	4.000 EA	_____	 _____	_____	 _____
1510	659.10 MOBILIZATION	LUMP SUM		 LUMP SUM	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023138.00

Project(s): 023138.00

SECTION: 1 INITIAL GROUP

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
1520	660.21 ON-THE-JOB TRAINING (BID)	4,000.000 HR	_____	 _____	_____	 _____
1530	801.03 TEST PITS	10.000 EA	_____	 _____	_____	 _____
1540	822.33 6 INCH CLASS 52 DUCTILE IRON PIPE	30.000 LF	_____	 _____	_____	 _____
1550	822.34 8 INCH CLASS 52 DUCTILE IRON PIPE	100.000 LF	_____	 _____	_____	 _____
1560	822.3407 8 INCH EXPANSION JOINT	2.000 EA	_____	 _____	_____	 _____
1570	822.363 12 INCH CLASS 52 DUCTILE IRON PIPE	300.000 LF	_____	 _____	_____	 _____
1580	822.50 24 INCH CLASS 52 DUCTILE IRON PIPE	8.000 LF	_____	 _____	_____	 _____
1590	823.311 12 INCH GATE VALVE WITH BOX	2.000 EA	_____	 _____	_____	 _____
1600	823.3251 8 INCH GATE VALVE WITH BOX	1.000 EA	_____	 _____	_____	 _____
1610	823.33 6 INCH GATE VALVE WITH BOX	2.000 EA	_____	 _____	_____	 _____
1620	824.30 FIRE HYDRANT	2.000 EA	_____	 _____	_____	 _____
1630	825.321 1 INCH CORPORATION	1.000 EA	_____	 _____	_____	 _____
1640	827.33 TRENCH INSULATION	40.000 LF	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023138.00

Project(s): 023138.00

SECTION: 1 INITIAL GROUP

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
1650	830.104 WATER MAIN BRIDGE CROSSING	610.000 LF	_____	 _____	_____	 _____
1660	830.163 GAS MAIN BRIDGE CROSSING, OWNER FURNISHED	620.000 LF	_____	 _____	_____	 _____
1670	830.164 HANGER - ROLLER ASSEMBLIES	56.000 EACH	_____	 _____	_____	 _____
1680	845.10 STRUCTURAL STEEL UTILITY SUPPORT CHARTER COMMUNICATIONS	LUMP SUM	LUMP SUM		_____	 _____
1690	845.10 STRUCTURAL STEEL UTILITY SUPPORT CMP	LUMP SUM	LUMP SUM		_____	 _____
1700	845.10 STRUCTURAL STEEL UTILITY SUPPORT CONSOLIDATED COMMUNICATIONS	LUMP SUM	LUMP SUM		_____	 _____
1710	845.102 SINGLE STRUCTURAL STEEL UTILITY SUPPORT	56.000 EACH	_____	 _____	_____	 _____
1720	910.30 SPECIAL WORK WINTER MAINTENANCE & SNOWPLOWING	12.000 EA	_____	 _____	_____	 _____
1730	910.301 SPECIAL WORK CONDUIT - CHARTER COMMUNICATIONS	LUMP SUM	LUMP SUM		_____	 _____
1740	910.301 SPECIAL WORK CONDUIT - CONC DUCT BANK - CMP	LUMP SUM	LUMP SUM		_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023138.00

Project(s): 023138.00

SECTION: 1 INITIAL GROUP

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
1750	910.301 SPECIAL WORK CONDUIT - CONDUCT BANK - CONSOLIDATED COMMUNICATIONS	LUMP SUM	LUMP	SUM	_____	_____
1760	910.301 SPECIAL WORK CONDUIT & HANGERS BRIDGE - CHARTER COMMUNICATIONS	LUMP SUM	LUMP	SUM	_____	_____
1770	910.301 SPECIAL WORK CONDUIT & HANGERS BRIDGE - CMP	LUMP SUM	LUMP	SUM	_____	_____
1780	910.301 SPECIAL WORK CONDUIT & HANGERS BRIDGE - CONSOLIDATED COMMUNICATIONS	LUMP SUM	LUMP	SUM	_____	_____
1790	910.301 SPECIAL WORK PEDESTRIAN DETOUR	LUMP SUM	LUMP	SUM	_____	_____
<b>Section: 1</b>			<b>Total:</b>		_____	_____
			<b>Total Bid:</b>		_____	_____

**SPECIAL PROVISION**  
**SECTION 104**  
**GENERAL RIGHTS AND RESPONSIBILITIES**  
( Winter Maintenance and Snow Removal)

This Special Provision specifies Contractor requirements for snowplowing, ice control, and snow removal on, and in the vicinity of, the Two Cent Pedestrian Bridge during periods when both sidewalks on the Ticonic Bridge are closed and the Pedestrian Detour using the Two Cent Bridge is in place. The requirements of this Special Provision supplement the information and restrictions specified in Special Provisions 107 and 652.

During periods when the Pedestrian Detour using the Two Cent Bridge is in place, the Contractor shall provide for, and perform, all winter maintenance and snow removal in compliance with this Special Provision and within the limits shown in Figure 1. This work also includes the satisfactory removal of existing snow and ice from within the limits shown in Figure 1 prior to the implementation of the Pedestrian Detour using the Two Cent Bridge.

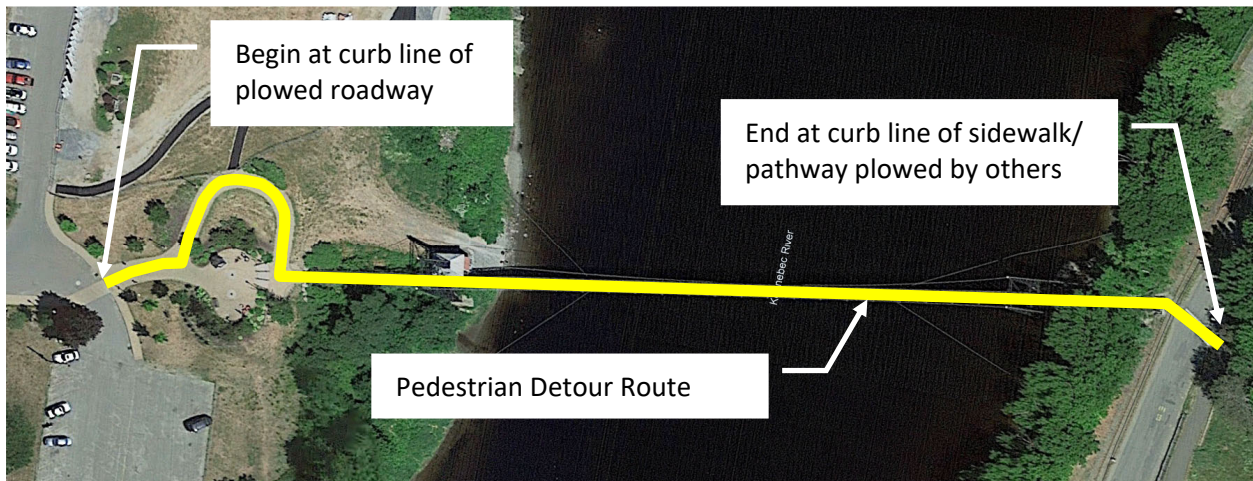


Figure 1 – Limit of Contractor Winter Maintenance and Snow Removal at Two Cent Bridge

Contractor Requirements

Snow removal and material application operations shall occur for each storm event. A storm event is defined as snow accumulation on the pavement reaching a depth of one inch or any other storm event creating unsafe, slippery conditions for pedestrians as determined by the Resident. Unless specified otherwise in this Special Provision, immediately after storm conditions have subsided, the snow and/or ice shall be cleared to the specified width and final surface treatment shall be applied.

The Contractor shall be responsible for maintaining safe and accessible pedestrian passage in conjunction with the Municipal snowplowing measures, according to this Special Provision, and in

coordination with City staff as follows:

- a) The Contractor is responsible for snow removal/ice treatment at all times when Pedestrians are detoured to the Two Cent Bridge, regardless of whether the Contractor is actively working on site.
- b) The Contractor shall maintain an unobstructed width of five feet within the limits shown in the figure above.
- c) Within 12 hours of storm subsidence, and after the Municipalities have finished clearing the roadway, the Contractor shall clear and remove snow and treat for ice within the limits shown in Figure 1, including any windrows of snow left behind from adjacent snowplowing operations.
- d) The Contractor shall use equipment that will not damage the pavers on the Waterville end of the Two Cent Bridge, damage the Two Cent Bridge, or overload the Two Cent Bridge. Equipment used for snow removal shall be limited to walk-behind self-propelled snowblowers. The use of heavy equipment such as snowplows, skid steers, or other ride-along equipment is not permitted.
- e) The Contractor will be responsible for documenting the condition of the pavers on the Waterville end of the Two Cent Bridge each year before winter maintenance activities begin, and each year following the completion of winter maintenance activities. The Contractor shall be responsible for repairing damaged pavers to the satisfaction of the Resident at no additional cost to the Department.
- f) The Contractor shall be responsible for ice control measures including sanding of the walkway surface. The application of salt for ice control measures is not allowed.
- g) The Contractor shall be responsible for rinsing the Two Cent Bridge with clean water each spring following the completion of the Contractor's winter maintenance activities to remove sand accumulation from the structure.

#### Method of Measurement

Winter Maintenance and Snow Removal, as described herein, will be measured by each storm event, complete, and accepted. A storm event shall be defined as any storm event producing at least one inch of snow or creating unsafe, slippery conditions as determined by the Resident. A storm event shall be considered to have ended if no measurable precipitation has fallen for a period of at least eight hours. Rinsing of the Two Cent Bridge will not be measured for payment separately, but shall be incidental to the related work.

#### Basis of Payment

Winter Maintenance and Snow Removal will be paid at the contract unit price for each storm event.

Payment shall include all work required to remove snow from the specified areas as outlined herein, including ice control measures and rinsing of the structure.

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
910.30	Special Work – Winter Maintenance & Snow Removal	Each

**SPECIAL PROVISION**  
**SECTION 107**  
**TIME**  
(Work Times)  
(Incentive/Disincentive)  
(Supplemental Liquidated Damages)

The following requirements apply to all work in this Contract:

107.3.1 General Add the following to this section:

The Contractor will be allowed to detour westbound traffic from the Ticonic Bridge as shown in the Contract Plans. The Contractor shall limit the total duration of the westbound detour to a maximum of 1,095 Calendar Days. The length of time that the bridge is closed to all traffic, as permitted herein, will count toward the duration of the westbound detour.

The Contractor will be allowed to install lane closures on the Ticonic Bridge. Eastbound lane closures will be allowed regardless of whether or not the westbound detour is in place. All lane closures shall be during the times described herein.

The Contractor will be allowed to close the Ticonic Bridge to all traffic and pedestrians as described herein.

Roadways and sidewalks on and adjacent to the Ticonic Bridge shall be cleaned of all debris and construction materials prior to reopening the roadway and sidewalks, and following approval by the Resident.

The Contractor shall provide weekly written updates to the Resident regarding anticipated roadway and lane closures so the Department, City of Waterville, and Town of Winslow can update the public on construction activities. Payment shall be incidental to the Contract.

**Allowed Lane and Roadway Closure Times:**

1. *Extended Bridge Closures:*

The Contractor is allowed to close Ticonic Bridge to all traffic and pedestrians for no more than two extended closures during the Contract, hereafter referred to as Extended Bridge Closures. The combined duration of the Extended Bridge Closures shall total no more than 175 Calendar Days.

The Contractor shall notify the Resident of the selected date and planned duration for each Extended Bridge Closure in writing at least 60 Calendar Days prior to the start of each closure.

The limits of each Extended Bridge Closure shall encompass the area beginning at the easterly gutterline of Front Street and extending east to the westerly gutterline of Benton Avenue. During the Extended Bridge Closure, access to side streets, residences and businesses shall be maintained.

The eastbound and westbound detour signs shall be in place and uncovered at least two hours prior to implementing the Extended Bridge Closure.

The Contractor will be required to submit and follow a closure notification plan in accordance with the requirements of Standard Specification 104.4.10 for all Extended Bridge Closures. The Contractor shall be responsible for coordinating all planned closures with other projects potentially impacting traffic on the detour routes shown in the Plans.

2. *Ticonic Bridge Lane Closures:*

The Contractor will be allowed to install temporary lane closures on the Ticonic Bridge at the times outlined below to accommodate active work activities. Lane widths shall be as defined in Special Provision 652.

a. Eastbound Traffic

Eastbound lane closures will be allowed during the following times regardless of whether westbound traffic is being detoured off site:

- i. Eastbound traffic may be reduced to two lanes of traffic at any time provided the traffic control layout for the Utility Stage shown in the Contract Plans is followed.
- ii. Eastbound traffic may be reduced to a single lane of traffic Monday through Saturday:
  1. Beginning at 12:00 AM (midnight) and ending at 2:00 PM
  2. Beginning at 6:00 PM and ending at 12:00 AM (midnight)

b. Westbound Traffic

Westbound traffic may be reduced to a single lane of traffic Monday through Saturday during the following times:

- i. Beginning at 12:00 AM (midnight) and ending at 6:00 AM
- ii. Beginning at 9:00 AM and ending at 4:00 PM
- iii. Beginning at 6:00 PM and ending at 12:00 AM (midnight)

Except as otherwise specified herein, pedestrians and bicyclists shall be accommodated

on the bridge during these restrictions.

3. *Nightly Bridge Closures:*

The Contractor will be allowed nightly closures of the Ticonic Bridge to all traffic, bicyclists and pedestrians to accommodate active work activities. Closures are allowed Sunday through Thursday beginning at 7:00 PM each night and ending at 6:00 AM the next morning.

The Contractor will be required to submit and follow a closure notification plan in accordance with the requirements of Standard Specification 104.4.10 for all Nightly Bridge Closures. The Contractor shall be responsible for coordinating all planned closures with other projects potentially impacting traffic on the detour routes shown in the Plans.

4. *Short-Term Traffic Stoppages:*

Short term stoppages of traffic on the Ticonic Bridge and/or approaches lasting up to ten minutes are permitted with the approval of the Resident for the mobilization of equipment, or for the delivery of materials, that cannot be reasonably completed without a stoppage. Short-Term Traffic Stoppages are allowed Monday through Friday between 7:00 PM and 6:00 AM each day.

5. *South Sidewalk Closures:*

The Contractor shall close the south sidewalk of the Ticonic Bridge (the sidewalk on the Arch) and detour pedestrian traffic to the Two-Cent Bridge at the beginning of Stage 1 construction. This sidewalk shall remain open during utility relocation work in advance of Stage 1 construction.

**Supplemental Liquidated Damages:**

The following supplemental liquidated damages shall apply to this project:

1. *Extended Bridge Closures:*

Supplemental liquidated damages will be assessed if Ticonic Bridge and approaches are not reopened to two lanes of eastbound traffic by the end of the approved Extended Bridge Closure Period. Supplemental liquidated damages will be assessed at the rate of \$10,000 per Calendar Day, or any portion thereof, that the bridge is not reopened to two lanes of eastbound traffic.

2. *Ticonic Bridge Lane Closures:*

Supplemental liquidated damages will be assessed at the rate of \$500.00 for each 30-minute increment, or any portion thereof, that either bound of the Ticonic Bridge remains restricted to a single lane beyond the specified time.

3. *Nightly Bridge Closures:*

Supplemental liquidated damages will be assessed at the rate of \$1,000.00 for each 30-minute increment, or any portion thereof, that the bridge remains closed beyond the specified time.

4. *Short Term Traffic Stoppages:*

Supplemental liquidated damages will be assessed at the rate of \$250.00 for each 5-minute increment, or any portion thereof, that a traffic stoppage remains in place in excess of the allowed duration.

Assessment of supplemental liquidated damages will be in addition to liquidated damages specified in Section 107 of the Standard Specifications.

**Westbound Detour Incentive & Disincentive:**

The following incentive & disincentive will apply to detouring westbound traffic off the Ticonic Bridge:

1. Early Opening Incentives. The Contractor will be paid a \$5,000 incentive for each complete Calendar Day that the Ticonic Bridge is considered substantially complete and reopened to westbound traffic in advance of the maximum allowed duration for detouring westbound traffic, as specified herein. The value of the incentive will be capped at 90 days (\$450,000). The Ticonic Bridge will be considered substantially complete when the following items are complete, in place, and accepted: surface pavement on the bridge, base pavement in the approaches, bridge rail, bridge rail transitions, approach guardrail, pavement ramps (if applicable), and the entire limit of sidewalk work on at least one side of the roadway.
2. Late Opening Disincentives. The Contractor will be assessed a \$5,000 disincentive for each Calendar Day, or any portion thereof, that the Ticonic Bridge is not reopened to westbound traffic after the maximum allowed duration for detouring westbound traffic, as specified herein.

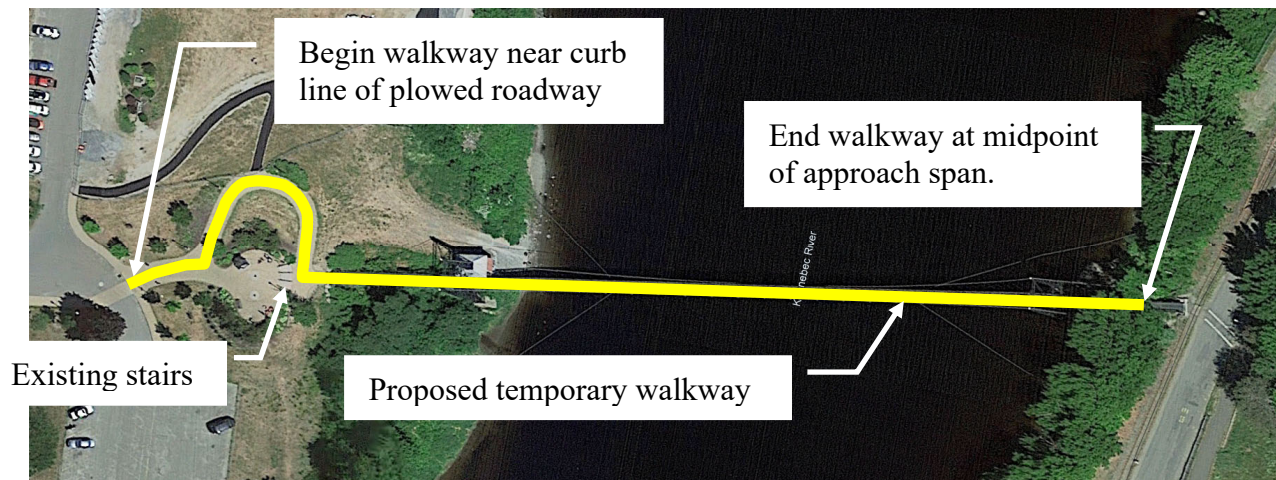
107.3.2 Night Work Add the following to this section:

Night work will be permitted at all times during construction, unless otherwise specified herein. Night work will only be permitted Sunday through Thursday during the times specified herein.

**SPECIAL PROVISION**  
**SECTION 910**  
**SPECIAL WORK**  
(Temporary Walkway Construction)

910.01 Description

This work shall consist of constructing, maintaining, removing and reinstalling (if needed), and all labor, materials and equipment required to construct an ADA compliant temporary walkway along the identified portions of the pedestrian detour route for the purpose of preventing the underlying surfaces from being damaged by winter maintenance operations. The details and construction of the temporary walkway shall be as described herein. The limits and general layout of the temporary walkway shall be as shown in Figure 1. The temporary walkway shall be removed after each winter and reinstalled prior to the resumption of winter maintenance activities the following winter.



**Figure 1 – Limit of temporary walkway**

The work shall also include installing, maintaining and removing a temporary luminaire at each of the two support towers of the Two Cent Bridge, or on nearby temporary utility poles provided by the Contractor, as described herein.

The work shall also include designing, installing, maintaining and removing a temporary camera system that can broadcast streaming video to the Waterville Police dispatcher’s office (video monitor/workstation provided by Waterville) as described herein. A total of two cameras shall be installed, one at each of the two support towers of the Two Cent Bridge.

The work also includes providing necessary electrical and communication connections to provide a fully operational lighting and camera system as described herein. The Contractor is

advised that existing electrical conduits and lines are mounted on the bridge, and a flood light is attached to each tower, but the lights are currently not functioning. Information on the existing lights, or the status of the electrical infrastructure, is unknown. There is no known functioning communication services at the Two Cent Bridge. The Contractor may reuse portions of the existing infrastructure deemed suitable by a licensed electrician.

## 910.02 Design and Construction Requirements

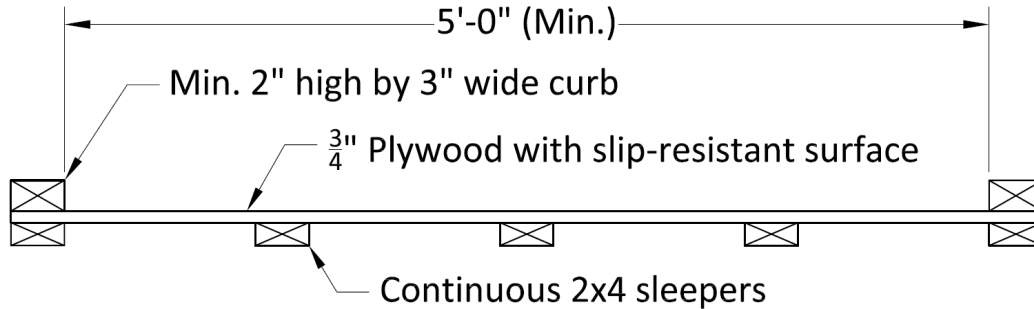
### 910.021 – Temporary Walkway

All materials shall be sound and of adequate cross section for the intended loads and shall provide a finished walkway surface that is stable, firm, slip resistant and reasonably smooth and free from misaligned edges and other variations that could lead to tripping, water ponding, or other conditions that make pedestrian travel unsafe. Used materials will be acceptable provided they are in good condition and free from significant defects or deterioration.

The typical section of the temporary walkway shall generally be as shown in Figure 2. The final geometry and details of the Temporary Walkway shall be determined by the Contractor and in accordance with the provisions stated herein. The following design and construction requirements apply:

- The Temporary Walkway shall be ADA compliant.
- The minimum clear width of the temporary walkway shall be 60 inches.
- A ramp with a slope of 1V:12H or flatter shall be provided at each end of the Temporary Walkway to transition from existing grade to the temporary walkway. A vertical lip of not more than ¼” will be allowed at the bottom of each ramp.
- A 60”x60” landing shall be provided at the bottom of each Temporary Walkway ramp.
- A safety curb measuring at least 2” high and 3” wide shall be installed along each edge of the temporary walkway. Safety curbing shall be eliminated on the Two Cent Bridge where bridge rails are present. An approved high visibility tape shall be applied continuously along the top of each curb.
- Provisions for drainage of the Temporary Walkway surface shall be provided.
- The entire surface of the Temporary Walkway shall be covered with an approved slip resistant coating.
- The selected construction details and methods shall be generally consistent with common timber framing construction practices.
- The Temporary Walkway shall be free floating; no physical attachment to the existing bridge or walkway surfaces shall be made.
- The Contractor shall be required to install and maintain the Temporary Walkway

in a manner that provides safe passage for pedestrians.



**Figure 2 – Conceptual cross section of temporary walkway**

The Temporary Walkway shall be removed at the end of the project and shall become the property of the Contractor. Any repairs required to the Two Cent Bridge, approach pavers or other existing infrastructure resulting from the Temporary Walkway shall be repaired to the satisfaction of the Resident at no additional cost to the Department.

#### 910.022 – Temporary Lighting

The Contractor is responsible for selecting materials, and for the final design of the system, in accordance with Standard Specification Sections 634, 643 and 645, as applicable. The work includes furnishing and installing all materials and equipment required for two complete, functioning and accepted temporary luminaires, including the proposed attachments to the towers or temporary utility poles, and all required electrical services and connections.

The luminaires shall be new, light emitting diode (LED) units, with dusk to dawn operation and a light color temperature of 4000-5500k. The luminaires shall be selected to illuminate the entire main span of the Two Cent Bridge with a minimum lighting level of 0.5 footcandles. The luminaires shall be aimed to avoid “blinding” the Temporary Cameras included as part of the work.

The temporary luminaires shall be removed at the end of the project and become the property of the Contractor. Any repairs required to the Two Cent Bridge resulting from the installation and removal of the Temporary Lighting shall be repaired to the satisfaction of the Resident at no additional cost to the Department.

#### 910.023 – Temporary Camera System

The Contractor is responsible for selecting materials, and for the final design of the system, in accordance with Standard Specification Sections 634, 643 and 645, as applicable. The work includes designing a system that provides a live video feed from two temporary cameras mounted at the Two Cent Bridge, or on nearby utility poles, to the Waterville Police dispatcher’s office. It is the sole responsibility of the Contractor to ensure the proposed equipment is of the appropriate type and combination to provide a fully operational system. The following design and construction

requirements apply:

- The cameras shall broadcast a live 720p video stream, or better.
- The cameras shall be capable of operating 24 hours per day, 365 days per year, in both normal and low-light conditions.
- The cameras shall be securely attached to the Two Cent Bridge towers in a manner that does not permanently alter or damage the structure.
- Each camera should be aimed toward the center of the main span of the Two Cent Bridge and, to the greatest extent reasonable, provide coverage of the entire length of the Two Cent Bridge.
- The orientation of the cameras and luminaires shall be coordinated such that the luminaires do not “blind” the cameras during low light conditions.
- The final orientation of the cameras and luminaires shall be approved by the Resident.
- Cellular communication systems, if used, shall have a sufficient connection speed and bandwidth to meet the requirements of this Specification.

The Temporary Camera System shall be removed at the end of the project and shall become the property of the Contractor. Any repairs required to the Two Cent Bridge resulting from the installation and removal of the temporary Camera System shall be repaired to the satisfaction of the Resident at no additional cost to the Department.

#### 910.03 Submittals

The design and details of the Temporary Walkway, Temporary Lighting, and Temporary Camera System shall be established by the Contractor in accordance with these provisions. Working Drawings including design and construction details with dimensions and notes illustrating the proposed locations, sizes, arrangements, connections, finishes and quality of materials that will be used shall be submitted for review and approval. Applicable product data sheets shall be included.

A photometric plan showing the light levels provided by the proposed luminaires shall be submitted for approval.

Details of the proposed camera system installation and its proposed method of operation shall be submitted for approval.

A narrative describing the proposed method of providing electrical and communication services to the proposed luminaires and cameras shall be provided.

910.04 Method of Measurement

The work associated with the Temporary Walkway, Temporary Lighting, and Temporary Camera System as described herein will be measured as one Lump Sum.

910.05 Basis of Payment

The Temporary Walkway, Temporary Lighting, and Temporary Camera System will be paid for under a single lump sum item stated below, which price shall be full compensation for all materials, equipment, labor and incidentals necessary for the design, erection, maintenance, repair, replacement, dismantling, removal and reinstallation of the Temporary Walkway, Temporary Lighting, and Temporary Camera System.

Payment for Special Work – Pedestrian Detour will be made in partial payments using the following schedule:

	<u>% of Lump Sum price</u>
After completing the initial Temporary Walkway installation, as well as camera and lighting system installation	80
After completing the final removal of this item:	20

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
910.301      Special Work - Pedestrian Detour	Lump Sum

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Ninth Edition 2020.

## DESIGN LOADING

Live Load ..... HL - 93 Modified for Strength I

## TRAFFIC DATA

Current (2021) AADT .....17,430  
 Future (2041) AADT .....20,920  
 DHV - % of AADT .....10%  
 Design Hour Volume .....2092  
 Heavy Trucks (% of AADT) .....3%  
 Heavy Trucks (% of DHV) .....1%  
 Directional Distribution (% of DHV) .....57%  
 18 kip Equivalent P 2.0 .....224  
 18 kip Equivalent P 2.5 .....214  
 Design Speed (mph) .....25

## HYDROLOGIC DATA

River Flow (Design Low) .....2,690 cfs  
 River Flow (Design High) .....21,100 cfs  
 Head Pond  
     Headwater Elevation (Design Low) .....50.9 ft  
     Headwater Elevation (Normal) .....52.2 ft  
     Headwater Elevation (Design High) .....55.5 ft  
     Headwater Elevation (Q50) .....65.9 ft  
     Headwater Elevation (Q100) .....67.6 ft  
 Lower Basin  
     Headwater Elevation (Design Low) .....30.5 ft  
     Headwater Elevation (Normal) .....32.0 ft  
     Headwater Elevation (Design High) .....36.5 ft  
     Headwater Elevation (Q50) .....60.9 ft  
     Headwater Elevation (Q100) .....64.9 ft

## MATERIALS

Concrete:  
 Curbs and Sidewalks ..... Class "LP"  
 Seals ..... Class "A"  
 All Other ..... Class "A"

Reinforcing Steel  
 Plain Reinforcing Steel ..... ASTM A 615/A 615M, Grade 60  
 Stainless Reinforcing Steel ..... ASTM A 955, Grade 75

Structural Steel:  
 Flanges over Pier ..... ASTM A 709, Grade 70 (metallized)  
 All Material (except as noted) ..... ASTM A 709, Grade 50 (metallized)  
 High Strength Bolts ..... ASTM F 3125, Grade A 325, Type 1

## BASIC DESIGN STRESSES

Concrete, Class "A" ..... f 'c = 4000 psi  
 Concrete, Class "LP" ..... f 'c = 5000 psi  
 Plain Reinforcing Steel ..... f y = 60,000 psi  
 Stainless Reinforcing Steel ..... f y = 75,000 psi

Structural Steel:  
 ASTM A 709, Grade 70 ..... F y = 70,000 psi  
 ASTM A 709, Grade 50 ..... F y = 50,000 psi  
 ASTM F 3125, Grade A 325, Type 1 ..... F μ = 120,000 psi

## WATERVILLE-WINSLOW KENNEBEC COUNTY TICONIC BRIDGE OVER KENNEBEC RIVER U.S. ROUTE 201 FEDERAL AID PROJECT NO. 2313800 PROJECT LENGTH 0.156 mi. BRIDGE NO. 2854

## LIST OF DRAWINGS

Title Sheet .....	1
General Plans .....	2-3
Profiles .....	4-5
Typical Sections .....	6
Construction Staging .....	7-9

## UTILITIES

Central Maine Power	Kennebec Sanitary Treatment District
Consolidated Communications	Oxford Networks
Charter Communications	Summit Natural Gas
Kennebec Water District	PanAm Railways
Waterville Sewer District	Brookfield

## MAINTENANCE OF TRAFFIC

Maintain two lanes of eastbound one-way traffic and pedestrians on the bridge. Westbound traffic will be detoured off site.

**PDR**  
July 16, 2021

<u>PROJECT LOCATION</u>	Ticonic Bridge #2854 in Waterville-Winslow carrying U.S. Route 201 over the Kennebec River Reservoir. Lat./Long. 44°32'50" N 69°37'38" W
<u>PROGRAM AREA</u>	Bridge
<u>OUTLINE OF WORK</u>	Replacement of Ticonic Bridge #2854 in Waterville-Winslow with associated approach work.

Date: 7/16/2021

Username:

Division:

Filename: 01\_Title\_Sheet.dgn

WIN 023138.00

2313800

**WATERVILLE-WINSLOW  
TICONIC BRIDGE**

**TITLE SHEET**

SHEET NUMBER

**1**

OF 9

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER:	
	CHIEF ENGINEER:	

	SIGNATURE	P. E. NUMBER	DATE

	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
	BRIDGE	Mark Parlin	Tim Cole, PE	HNTB			

Date: 7/16/2021

Username:

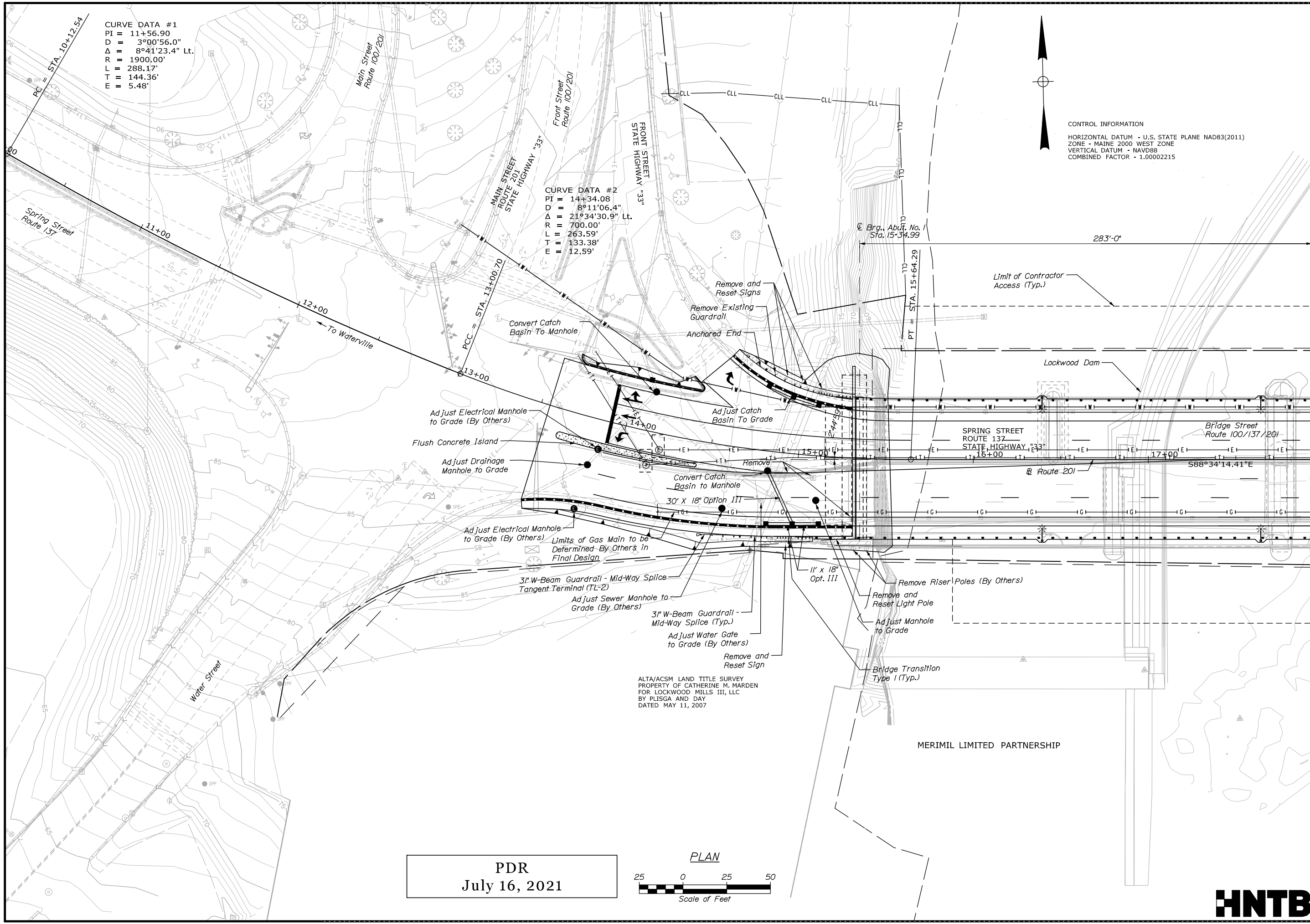
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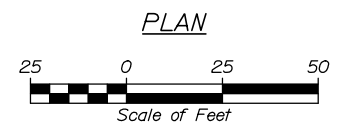
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 D = 3°00'56.0"  
 Δ = 8°41'23.4" Lt.  
 R = 1900.00'  
 L = 288.17'  
 T = 144.36'  
 E = 5.48'

**CURVE DATA #2**  
 PI = 14+34.08  
 D = 8°11'06.4"  
 Δ = 21°34'30.9" Lt.  
 R = 700.00'  
 L = 263.59'  
 T = 133.38'  
 E = 12.59'

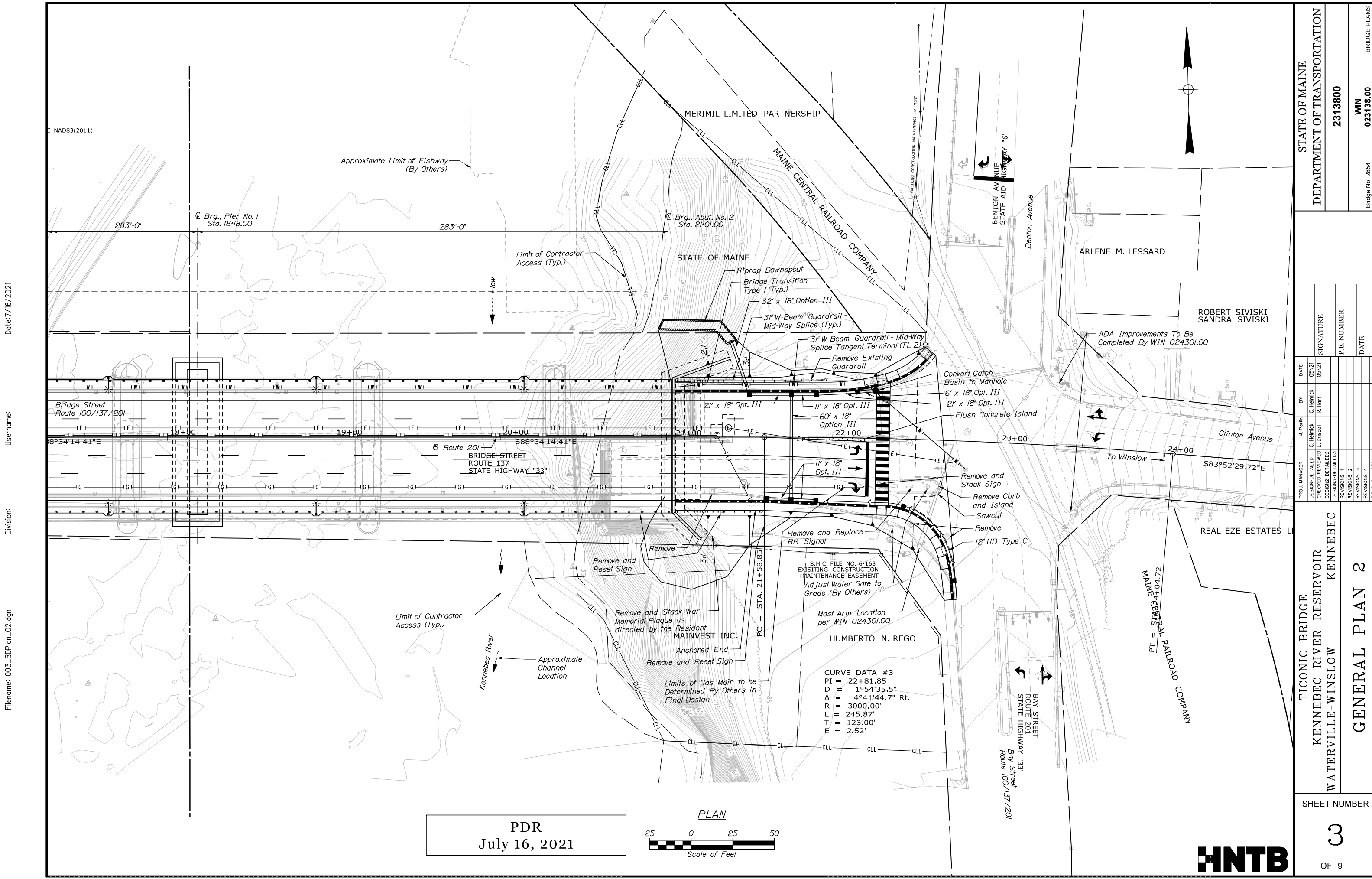
**CONTROL INFORMATION**  
 HORIZONTAL DATUM - U.S. STATE PLANE NAD83(2011)  
 ZONE - MAINE 2000 WEST ZONE  
 VERTICAL DATUM - NAVD88  
 COMBINED FACTOR - 1.00002215



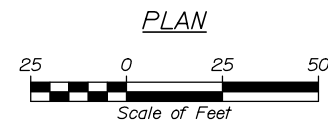
**PDR**  
 July 16, 2021



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2313800		WIN 023138.00		BRIDGE PLANS	
TICONIC BRIDGE KENNEBEC RIVER RESERVOIR WATERVILLE-WINSLOW		GENERAL PLAN 1		SHEET NUMBER		2	
M. Parlin		C. Helmick		R. Hoff		SIGNATURE	
DESIGN-DETAILED		CHECKED-REVIEWED		DESIGNS-DETAILED		REVISIONS	
DESIGNS-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3	
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
REVISIONS 2		REVISIONS 3		REVISIONS 4		FIELD CHANGES	
DATE		DATE		DATE		DATE	
05/21		05/21		05/21		05/21	
C. Helmick		R. Hoff		SIGNATURE		P.E. NUMBER	
DATE		DATE		DATE		DATE	
05/21		05/21		05/21		05/21	



**PDR**  
 July 16, 2021



STATE OF MAINE DEPARTMENT OF TRANSPORTATION <b>2313800</b>		WIN <b>023138.00</b> Bridge No. 2854	BRIDGE PLANS
PROJ. MANAGER M. Parlin	BY C. Helmick R. Hoff	DATE 05/21 05/21	SIGNATURE
DESIGN-DETAILED C. Helmick	CHECKED-REVIEWED L. Driscoll	DESIGNS-DETAILED C. Helmick	P.E. NUMBER
DESIGNS-DETAILED L. Driscoll	DESIGNS-DETAILED C. Helmick	REVISIONS 1	DATE
REVISIONS 2	REVISIONS 3	REVISIONS 4	
FIELD CHANGES			
<b>TICONIC BRIDGE</b> <b>KENNEBEC RIVER RESERVOIR</b> <b>WATERVILLE-WINSLOW</b> <b>KENNEBEC</b>		<b>GENERAL PLAN 2</b>	
SHEET NUMBER		<b>3</b>	
		OF 9	

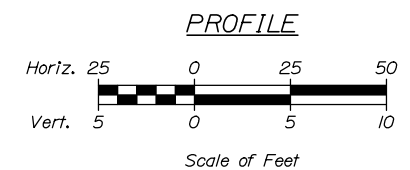
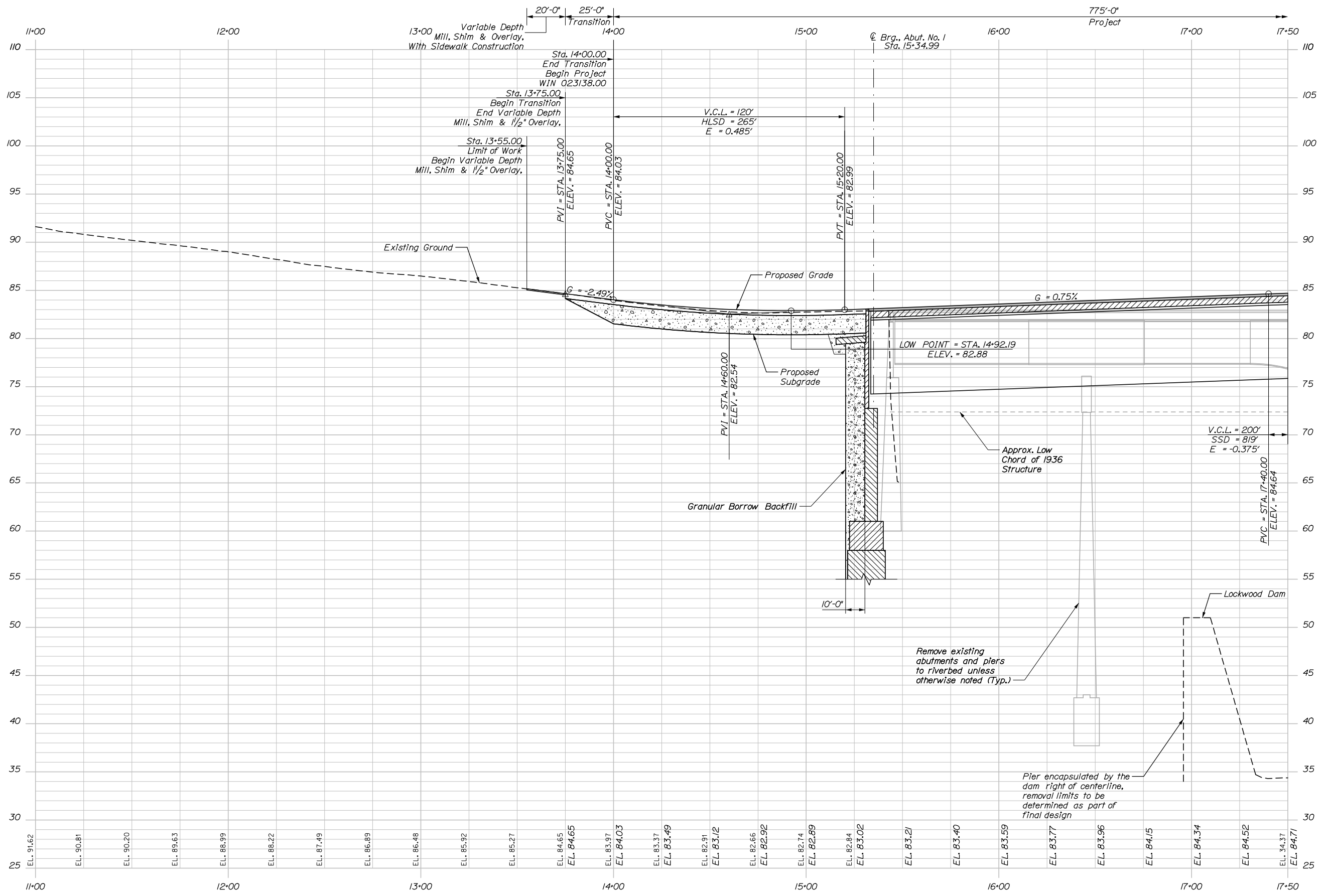


Date: 7/16/2021

Username:

Division:

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PDR  
July 16, 2021

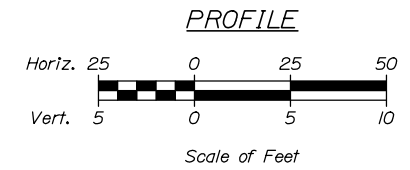
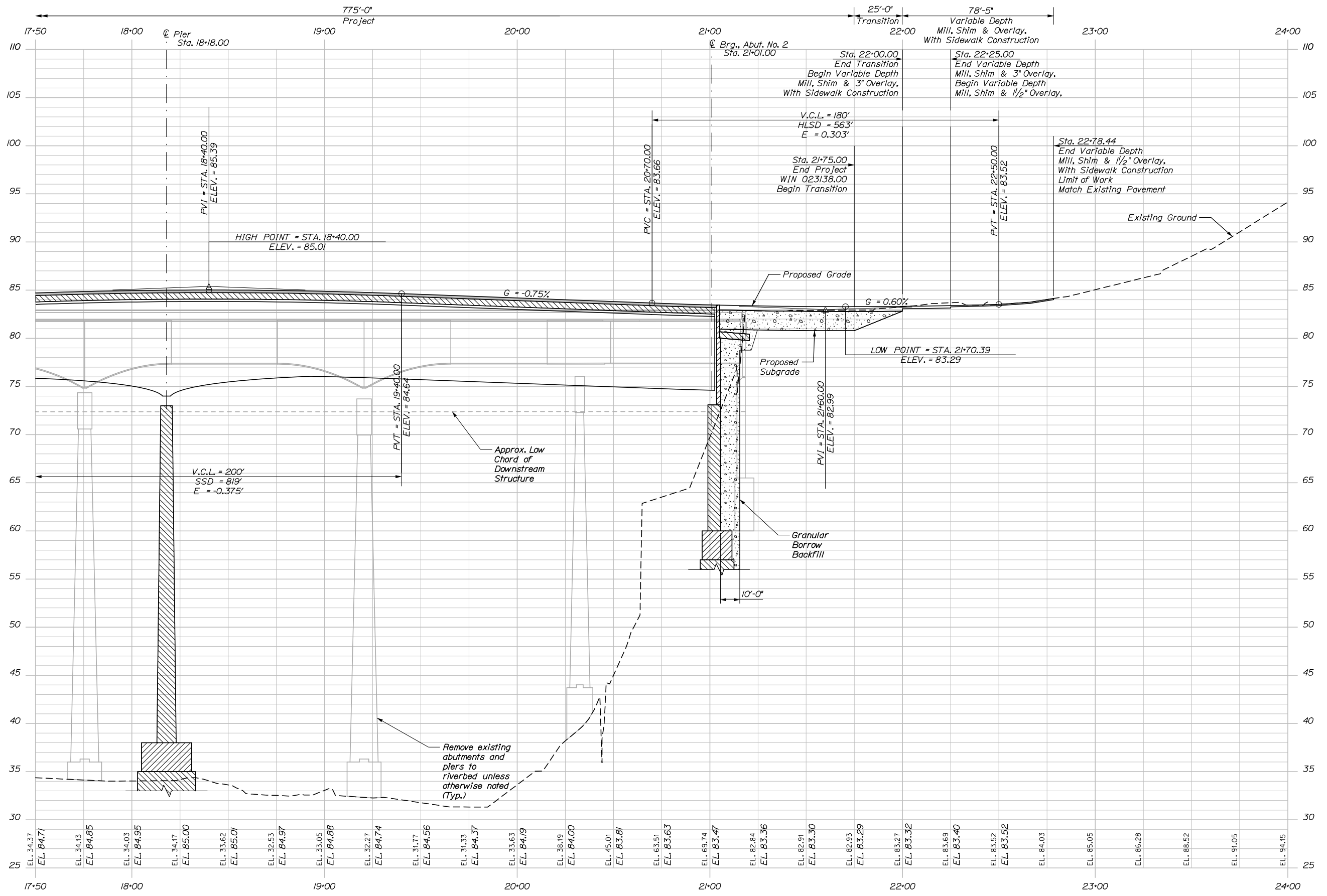


STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2313800	
TICONIC BRIDGE KENNEBEC RIVER RESERVOIR WATERVILLE-WINSLOW		PROFILE 1	
SHEET NUMBER		4	
DATE		DATE	
SIGNATURE		P.E. NUMBER	
BY		DATE	
M. Parlin		05/21	
C. Helmick		05/21	
L. Driscoll		05/21	
R. Hoff		05/21	
DESIGN-DETAILED		DESIGN-DETAILED	
CHECKED-REVIEWED		DESIGN-DETAILED	
DESIGN-DETAILED		DESIGN-DETAILED	
DESIGN-DETAILED		DESIGN-DETAILED	
REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES	
BRIDGE NO. 2854		BRIDGE PLANS	
WIN		023138.00	

Username: Date: 7/16/2021

Division:

Filename: 005\_Profile\_02.dgn



PDR  
July 16, 2021



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2313800	WIN 023138.00	BRIDGE PLANS
TICONIC BRIDGE KENNEBEC RIVER RESERVOIR WATERVILLE-WINSLOW		PROFILE 2		
SHEET NUMBER	5			
		OF 9		

PROJ. MANAGER	M. Parlin	BY	DATE
DESIGN-DETAILED	C. Helmick		05/21
CHECKED-REVIEWED	L. Driscoll	R. Hoff	05/21
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

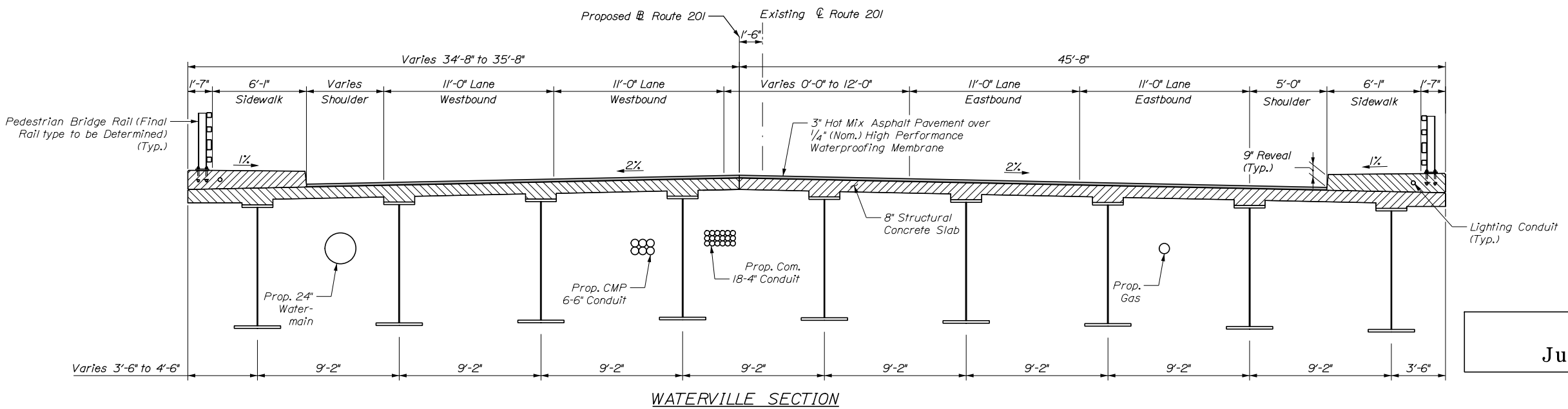
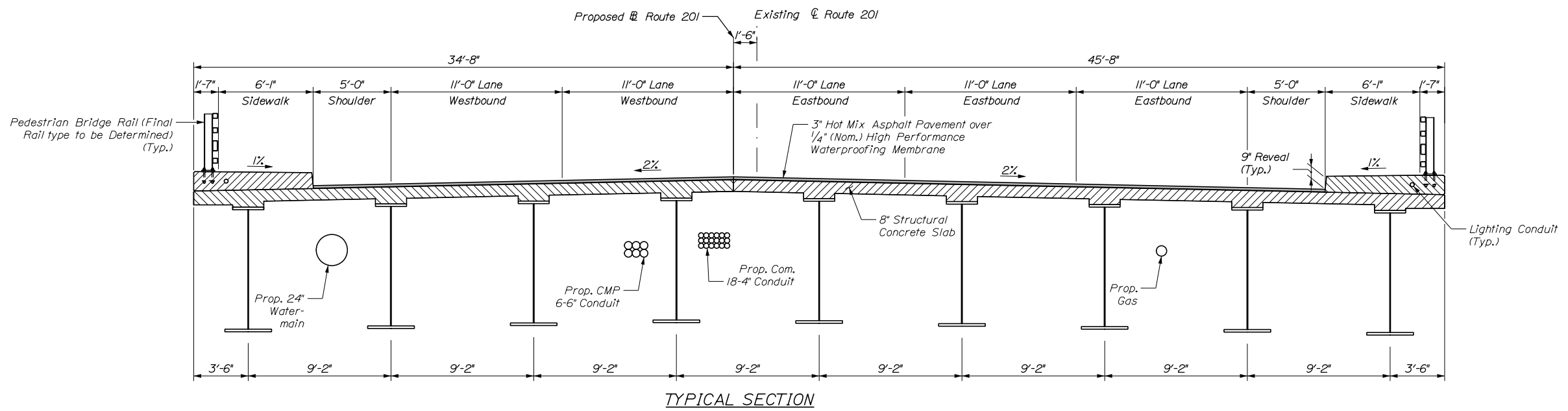
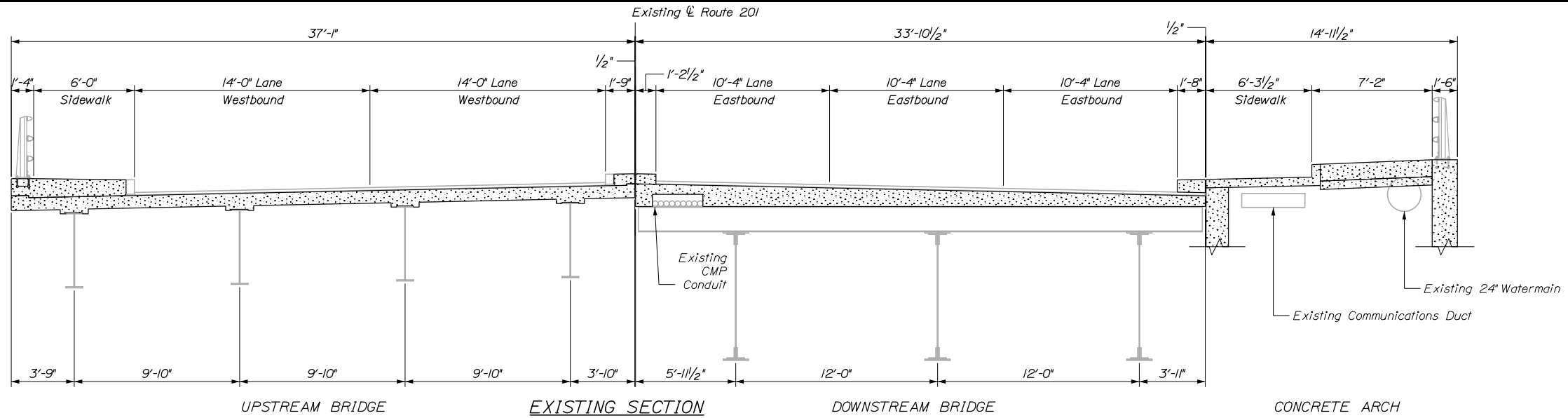
SIGNATURE	P.E. NUMBER	DATE

Date: 7/16/2021

Username:

Division:

Filename: 006\_TypicalSections.dgn



PDR  
July 16, 2021

**HNTB**

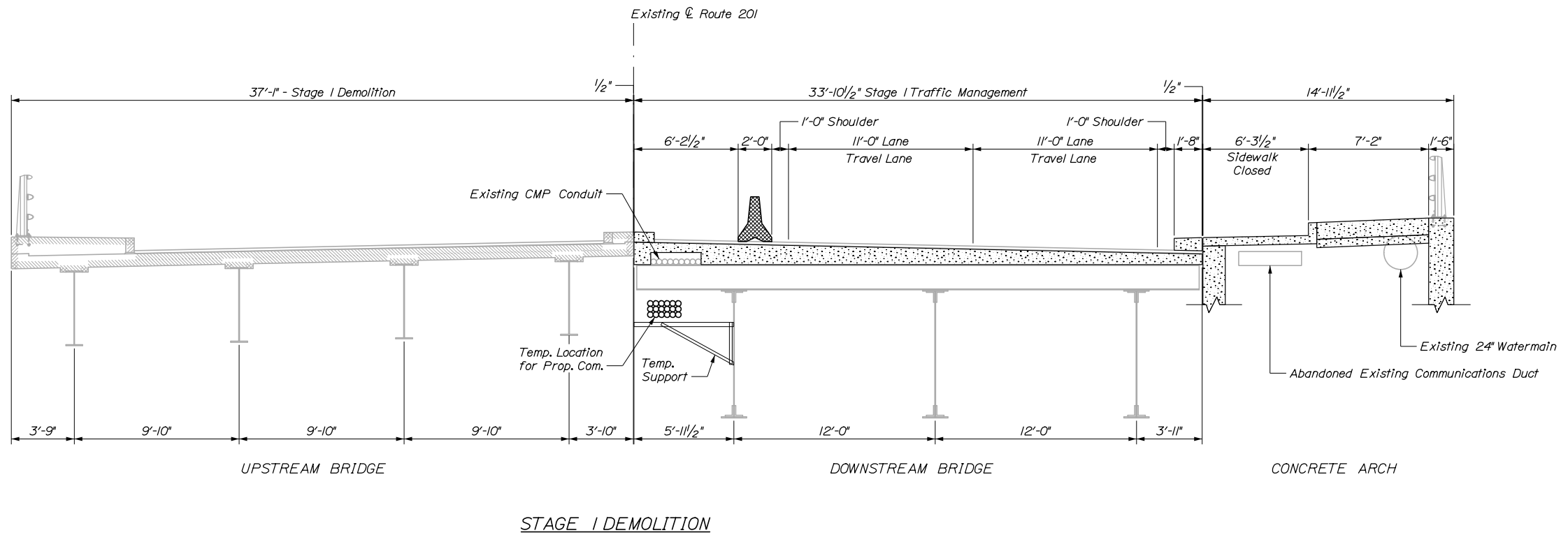
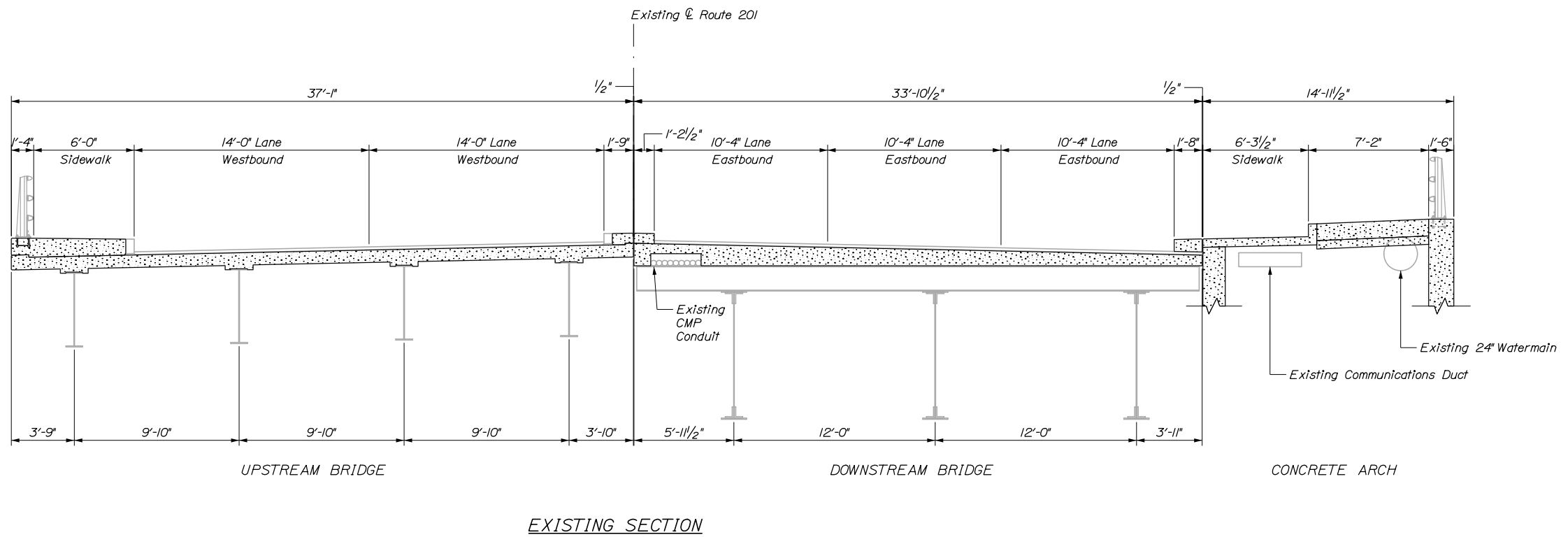
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2313800		WIN 023138.00		BRIDGE PLANS	
TICONIC BRIDGE KENNEBEC RIVER RESERVOIR WATERVILLE-WINSLOW		KENNEBEC		TYPICAL SECTIONS		SHEET NUMBER	
6		OF 9		REVISIONS		DATE	
PROJ. MANAGER	M. Parlin	BY	E. Brunsell	DATE	05/21	SIGNATURE	
DESIGN-DETAILED	A. Stephens	CHECKED-REVIEWED	L. Driscoll	DESIGN-DETAILED	05/21	P.E. NUMBER	
DESIGN-DETAILED		DESIGN-DETAILED		REVISIONS 1		DATE	
REVISIONS 1		REVISIONS 2		REVISIONS 3			
REVISIONS 2		REVISIONS 3		REVISIONS 4			
REVISIONS 3		REVISIONS 4		FIELD CHANGES			
REVISIONS 4							

Date: 7/16/2021

Username:

Division:

Filename: 007\_Construction Phasing 1.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2313800  
WIN  
023138.00  
Bridge No. 2854  
BRIDGE PLANS

SIGNATURE  
P.E. NUMBER  
DATE

PROJ. MANAGER	M. Parlin	BY	DATE
DESIGN-DETAILED	A. Stephens	E. Breussolle	05/21
CHECKED-REVIEWED	L. Driscoll	T. Cole	05/21
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

TICONIC BRIDGE  
KENNEBEC RIVER RESERVOIR  
WATERVILLE-WINSLOW  
KENNEBEC  
CONSTRUCTION  
STAGING PLANS 1

SHEET NUMBER

7

OF 9

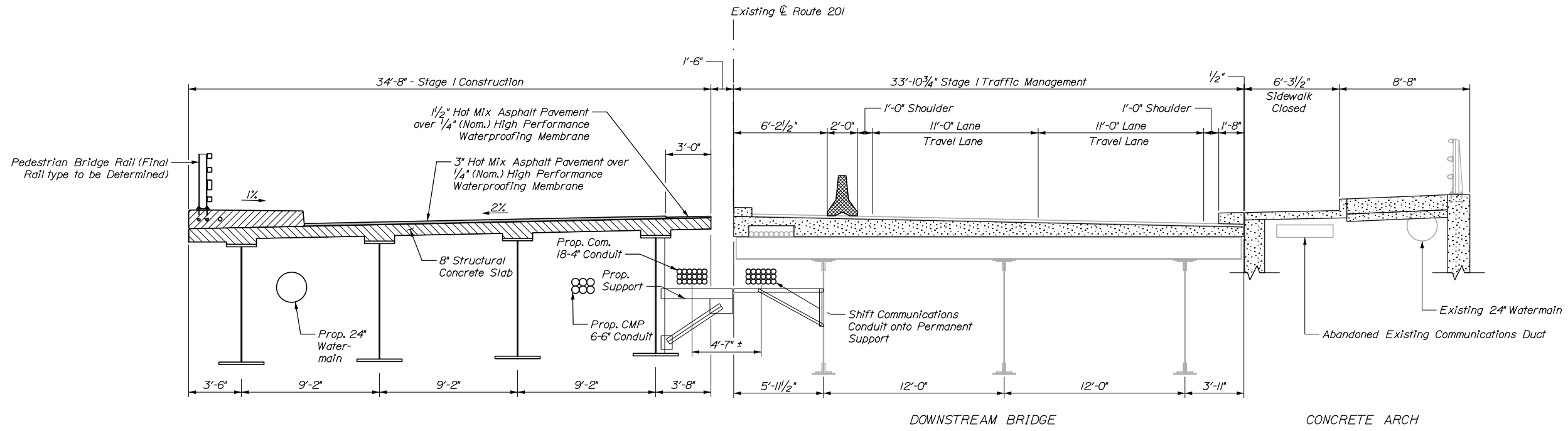


Date: 7/16/2021

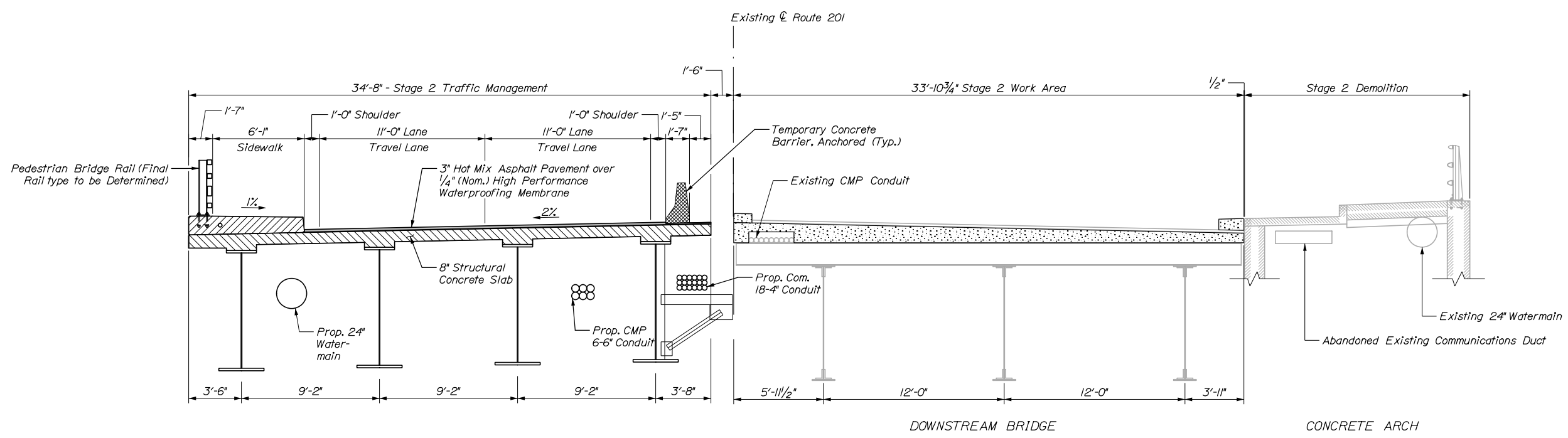
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Division:

Filename: 008\_Construction Phasing 2.dgn



STAGE 1 CONSTRUCTION



STAGE 2 DEMOLITION (ARCH)

DATE	SIGNATURE
05/21	
05/21	
	P.E. NUMBER
	DATE

PROJ. MANAGER	M. Parlin
DESIGN-DETAILED	A. Stephens
CHECKED-REVIEWED	E. Breusselle
DESIGNS-DETAILED	L. Driscoll
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

TICONIC BRIDGE  
KENNEBEC RIVER RESERVOIR  
WATERVILLE-WINSLOW  
KENNEBEC  
CONSTRUCTION  
STAGING PLANS 2

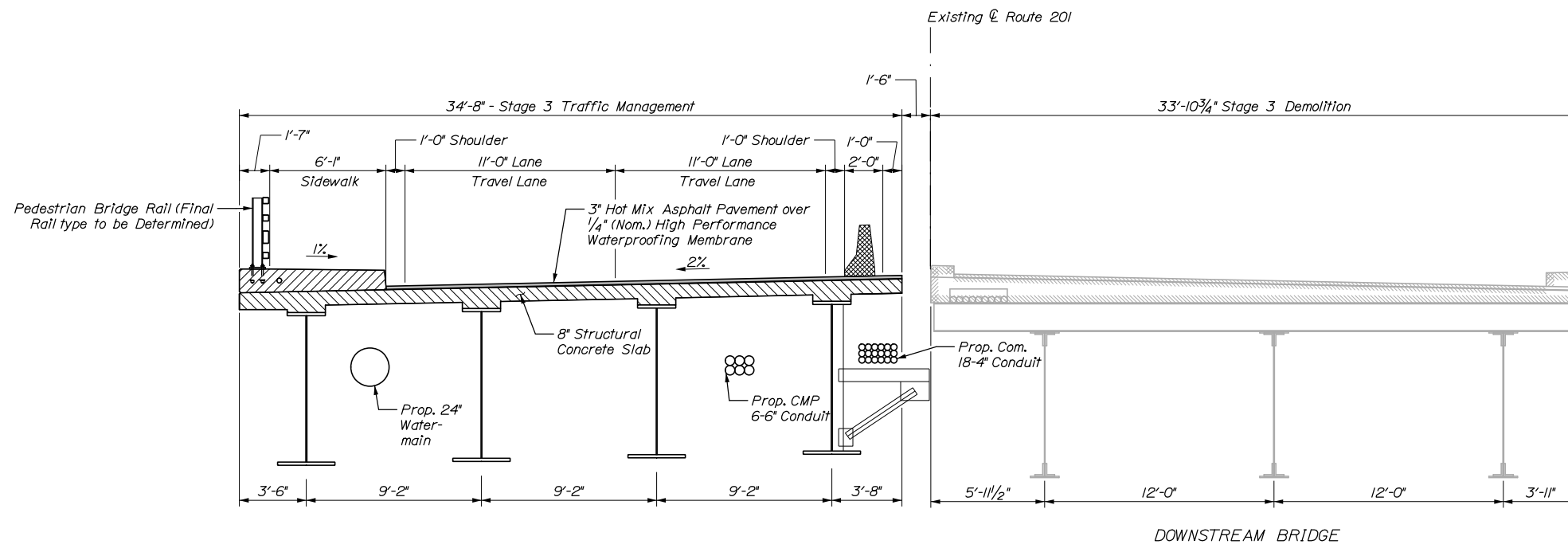


Date: 7/16/2021

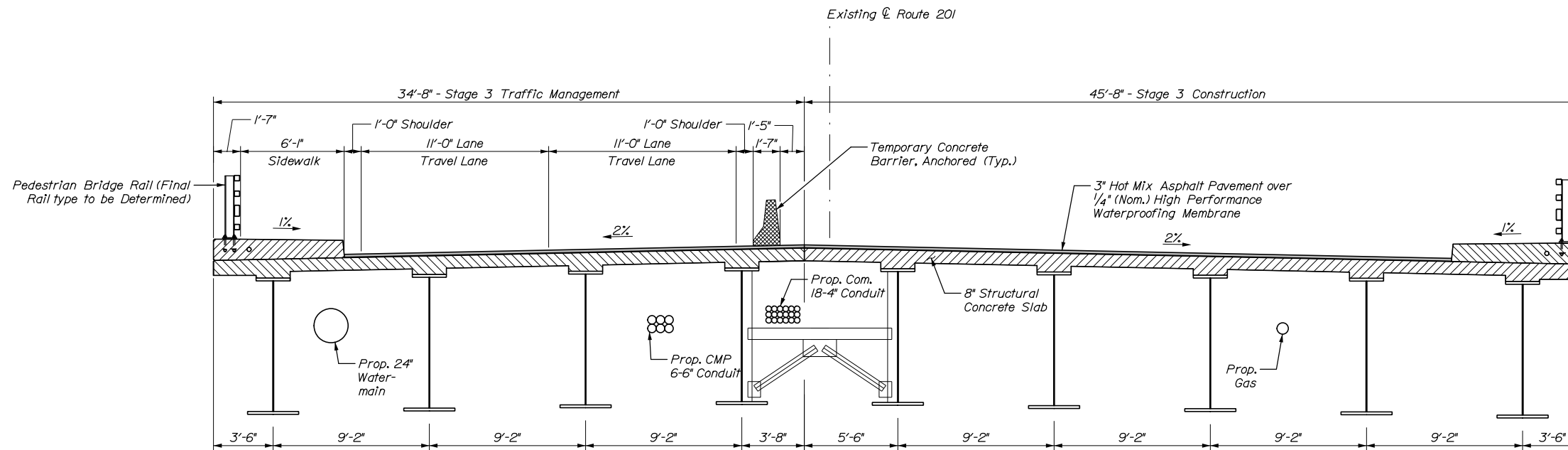
Username:

Division:

Filename: 009\_Construction Phasing 3.dgn



STAGE 2 DEMOLITION (GIRDER BRIDGE)



STAGE 2 CONSTRUCTION

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

2313800

WIN

023138.00  
BRIDGE No. 2854  
BRIDGE PLANS

SIGNATURE

DATE

05/21

05/21

BY  
E. Breusselle  
T. Cole

M. Parlin  
A. Stephens  
L. Driscoll

PROJ. MANAGER

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGNS-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

P.E. NUMBER

DATE

TICONIC BRIDGE  
KENNEBEC RIVER RESERVOIR  
WATERVILLE-WINSLOW  
KENNEBEC

CONSTRUCTION  
STAGING PLANS 3

SHEET NUMBER

9

OF 9



Date: 9/29/2022

Username:

Filename: 002\_Estimated Quantities\_01\_Rev2.dgn Division:

ROADWAY AND BRIDGE QUANTITIES

Table with columns: ITEM NO., DESCRIPTION, QUANTITY, UNIT. Includes items like 202.13 Removing Existing Railings, 203.2318 Disposal of Special Waste, 206.082 Structural Earth Excavation, etc.

ROADWAY AND BRIDGE QUANTITIES CONTINUED

Table with columns: ITEM NO., DESCRIPTION, QUANTITY, UNIT. Includes items like 606.1307 Bridge Transition (Asymmetrical) - Type IA, 606.259 Anchorage Assembly, 606.353 Reflectorized Flexible Guardrail Marker, etc.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2313800 WIN 023138.00 BRIDGE PLANS

PROJ. MANAGER M. Parlin BY DATE DESIGN-DETAILED C. Helmick 07/2022 CHECKED-REVIEWED C. Helmick L. Driscoll 07/2022 DESIGNS DET ALEDS DESIGNS DET ALEDS REVISIONS 1 Item Number Update 09/22 REVISIONS 2 Added Item 09/22 REVISIONS 3 REVISIONS 4 FIELD CHANGES

TICONIC BRIDGE KENNEBEC RIVER RESERVOIR KENNEBEC WATERVILLE - WINSLOW ESTIMATED QUANTITIES 1

SHEET NUMBER

2

