STATE OF MAINE DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

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

MATERIALS

Concrete:	
Structural Wearing Surface	Class "A1"
Barriers, Curbs, Sidewalks & Transition Barriers	Class "A"
All Other	Class "A"
All Other	LILLILICIASS A

BASIC DESIGN STRESSES

Concrete:	
Class "A"	 f'c = 4,000 psi
Class "A1"	 f'c = 4,000 ps

TRAFFIC DATA

Current (2023) AADT	
Future (2043) AADT	
DHV - % of AADT	
Design Hour Volume	
Heavy Trucks (% of AADT)	
Heavy Trucks (% of DHV)	
Directional Distribution (% of DHV)	
18 kip Equivalent P 2.0	275
18 kip Equivalent P 2.5	
Design Speed (mph)	

MECHANIC FALLS ANDROSCOGGIN COUNTY MECHANIC FALLS BRIDGE

OVER

LITTLE ANDROSCOGGIN RIVER

ROUTE 11 & 121 (PLEASANT STREET)
PROJECT NO. 027078.00
PROJECT LENGTH 0.055 mi
BRIDGE NO. 2540

LIST OF DRAWINGS

Title Sheet	_
Estimated Quantities & General Construct	
General Plan	 _
Typical Sections	
Staged Construction	-
Superstructure Plan	_
Truck Detour	
Temporary Traffic Signal Plan - Stage 1 &	

UTILITIES

Firstlight
Central Maine Power
Charter Communications
Consolidated Communications
Mechanic Falls Sanitary District
Mechanic Falls Water Company

MAINTENANCE OF TRAFFIC

Maintain one 11'-0" wide lane of alternating one - way traffic using traffic signals.

PROJECT LOCATION	Pleasant Street over the Little Androscoggin River. Located 0.08 of a mile Northwest of Elm Street. Lat./Long. 44°06'39.57" N 70°23'28.29" W	
PROGRAM AREA	Highway Bridge - Traditional	
OUTLINE OF WORK	Bridge Wearing Surface Replacement	

ANIC FALLS
FALLS BRIDGE

SHEET NUMBER

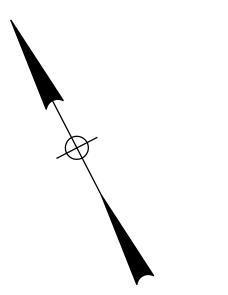
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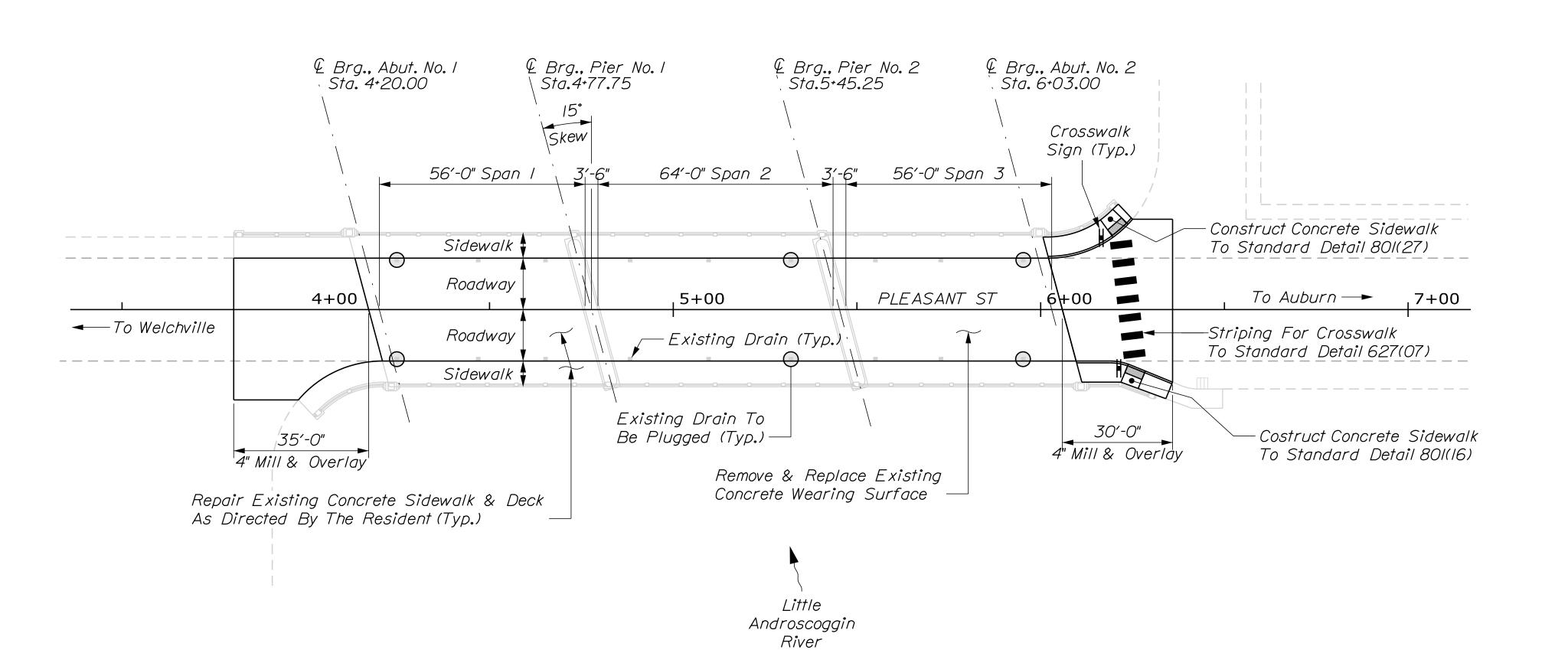
	ESTIMATED QUANTITIES		
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
11111111110.	B LECTUIT TION	QUIIIIII	01111
202.202	REMOVING PAVEMENT SURFACE	270	SY
202.30	REMOVING EXISTING CONCRETE WEARING SURFACE (80 CY)	1	LS
203.20	COMMON EXCAVATION		CY
304 . 10	AGGREGATE SUBBASE COURSE GRAVEL	10	CY
			T
403.2081	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	22	· ·
403,2131	12.5 MM POLYMER MODIFIED HMA BASE	36	T
409.15	BITUMINOUS TACK COAT - APPLIED	15	G
424.304	HIGH MOL WGHT METHACRYLATE CRACK SEAL	85	G
502.29	STRUCTURAL CONCRETE WEARING SURFACE ON BRIDGE (80 CY)	/	LS
502.291	SAW CUT GROOVING (590 SY)	/	LS
<i>502.</i> 75	PLUGGING EXISTING BRIDGE DRAINS	6	EA
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	7 , 040	LB
503.13	REINFORCING STEEL, PLACING	7 , 040	LB
<i>503.17</i>	MECHANICAL/WELDED SPLICE	189	EA
506.144	FIELD PAINTING NEW AND EXISTING STRUCTURAL STEEL (9,520 LB)	/	LS
506.17	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	1	LS
506.18	CONTAINMENT AND POLLUTION CONTROL	1	LS
506.191	DISPOSAL OF SPECIAL WASTE OR HAZARDOUS WASTE MATERIAL	/	LS
5/5 . 2/	PROTECTIVE COATING FOR CONCRETE SURFACE (125 SY)	/	LS
5/8.50	REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 8 IN.	70	SF
518.51	REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 8 IN.	270	SF
5/8 . 60	REPAIR OF VERTICAL SURFACES < 8 IN.	80	SF
518 . 70	REPAIR OF OVERHEAD SURFACES < 8 IN.	200	SF
526 . 301	PORTABLE CONCRETE BARRIER TYPE I (200 LF)	1	LS
527 . 34	WORK ZONE CRASH CUSHIONS	2	UN
608.08	REINFORCED CONCRETE SIDEWALK	<u> </u>	SY
608.26	CURB RAMP DETECTABLE WARNING FIELD	20	SF
		43	LF
609.21	CONCRETE SLIPFORM CURB		
627.18	12" SOLID WHITE PAVEMENT MARKING	56	LF
627.55	12" TEMPORARY TAPE PAVEMENT, WHITE	180	<u>LF</u>
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1,200	<u>LF</u>
<i>627.</i> 75	WHITE OR YELLOW PAVEMENT & CURB MARKING	84	SF
<i>627.77</i>	REMOVING PAVEMENT MARKINGS	300	SF
627.78	TEMP 4 INCH PAINT PAVE MARK LINE, WHITE OR YELLOW	800	LF
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631 . 172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	0. 5	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
645,292	REGULATORY, WARNING, CONFIRMATION & ROUTE ASSEMBLY SIGN, TYPE 2	33	SF
652.311	TYPE II BARRICADE	3	EΑ
652.312	TYPE III BARRICADE	7	EΑ
652.33	DRUM	50	EΑ
652.34	CONE	30	EΑ
652.35	CONSTRUCTION SIGNS	250	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	/	LS
652.38	FLAGGER	100	HR
652 . 381	TRAFFIC OFFICER	40	HR
652 . 41	PORTABLE CHANGEABLE MESSAGE SIGN	5	EA
652.55	TEMPORARY SOUND WALLS	<u> </u>	LS
	TEMPORARY SOUND WALLS TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	
656.75		1	LS
659.10	MOBILIZATION	/	LS
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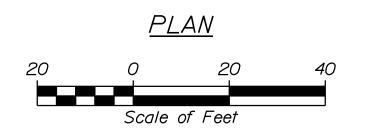
GENERAL CONSTRUCTION NOTES

- I. Existing signs within the Project limits shall be removed and reset as directed by the Resident. Payment for removal and reinstallation of existing signs will be considered incidental to the Contract. No separate payment will be made.
- 2. Project information referred to below may be accessed at the following MaineDOT web address: http://www.maine.gov/mdot/contractors/
- 3. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.
- 4. The bridge deck evaluation report of the existing bridge may be accessed at the MaineDOT web address. The report contains visual inspection information and deck core data of the bridge. There is no assurance that the information or data is a true representation of the conditions of the entire deck.
- 5. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:
 - a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation and Time.
- 6. The Resident will direct placement of the crosswalk signs. There will be a crosswalk sign facing each approach on both sides of the shoulder. Each crosswalk sign will consist of a WII-2 and WI6-7P sign. There may be signs facing both approaches attached to the same post.
- 7. Apply Item 424.304 High Molecular Weight Methacrylate Crack Sealer to sidewalks and concrete curb (both bridge and approach sections), and concrete wearing surface. Apply to curb faces at the edge of roadway with a brush.
- 8. The Saw Cut Grooving shall be in a longitudinal direction.
- 9. Protective Coating for Concrete Surfaces (Item 5/5.21) shall be applied to the following areas:
 - Concrete Bridge Posts Concrete Approach Posts
- 10. The existing concrete sidewalk will need to be removed where the new concrete sidewalk will be constructed as show on Sheet 3. Payment for removal of existing concrete sidewalk will be paid for by Item 203.20.
- II. The Structural Steel that shall be painted is the bridge rail on the bridge and the rail on the approaches to bridge. Payment for painting of steel will be paid for by Item 506.144, Item 506.18, and Item 506.191.

	S	MECHANIC FALLS BRIDGE	PROJ. MANAGER BRIAN NICHOLS BY	DATE		STATE OF MAINE	Œ
	HI	i	DESIGN-DETAILED Erin Brewer MRP	5-2025			
	EE	LITTLE ANDROSCOGGIN RIVER	CHECKED-REVIEWED G. Gustafson Erin Brewer	5-2025	5-2025 SIGNATURE	DEPARTMENT OF TRANSPORTATION	POKIAIION
f	Τ	VENITOR INTRODUCTION OF THE STIMPLISH	DESIGN2-DETAILED2				
	Ν	MECHANIC FALLS ANDROSCOGGIN COONII	DESIGN3-DETAILED3			0020707	
)	U		REVISIONS 1		P.E. NUMBER	00010170	
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		DIVERSOR SOUND INC.	FIELD CHANGES				DINIDOL I LANO



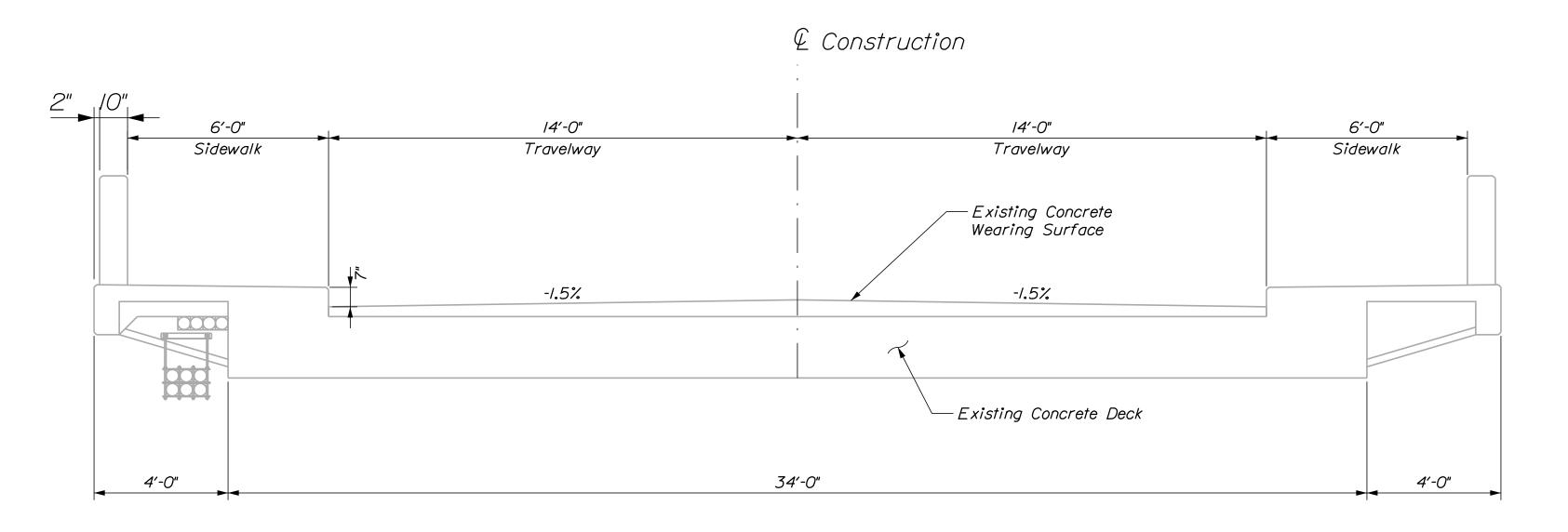




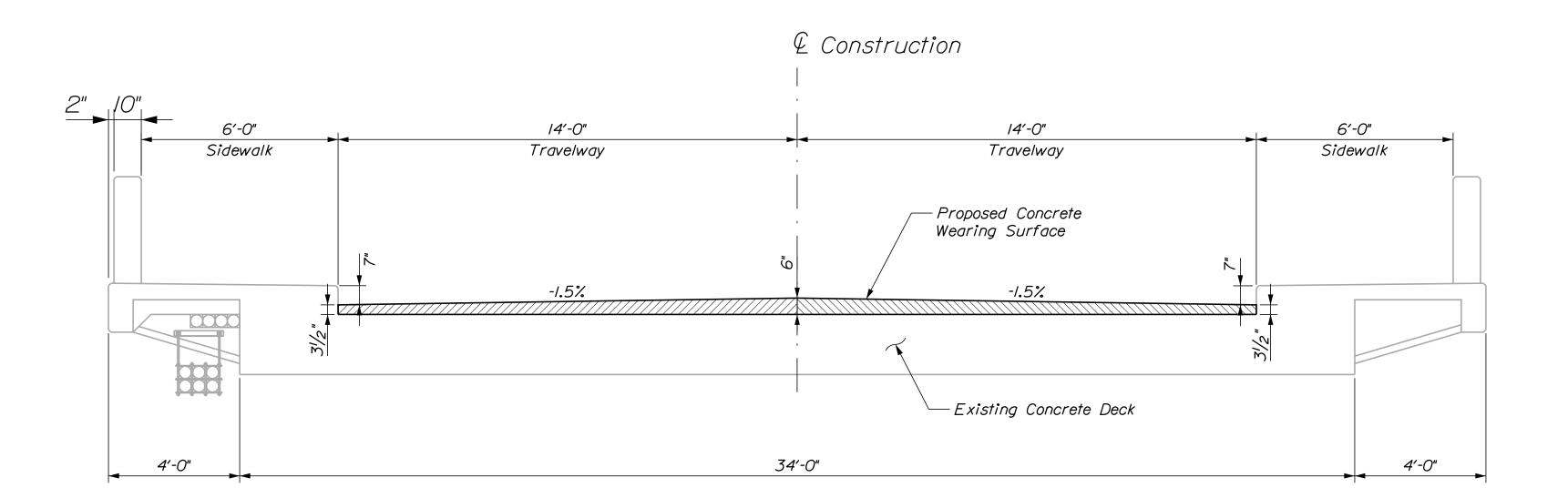
MECHANIC FALLS BRIDGE
LITTLE ANDROSCOGGIN RIVER
MECHANIC FALLS ANDROSCOGGIN COUNTY GENERAL

WIN 027078.00

SHEET NUMBER



EXISTING SECTION



PROPOSED SECTION

MECHANIC FALLS BRIDGE LITTLE ANDROSCOGGIN RIVER ANIC FALLS ANDROSCOGGIN COUNTY SECTION

SHEET NUMBER

