STATE OF MAINE DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS

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

TRAFFIC DATA

Current (2022) AADT	6380
Future (2042) AADT	7020
DHV - % of AADT	10
Design Hour Volume	702
Heavy Trucks (% of AADT)	13
Heavy Trucks (% of DHV)	10
Directional Distribution (% of DHV)	50
18 kip Equivalent P 2.0	1025
18 kip Equivalent P 2.5	976
Design Speed (mph)	25

MATERIALS

Concrete (Unless noted otherwise)	
Concrete Joint Headers	
Reinforcing:	
Plain Reinforcing Steel:	ASTM A 615/A 615M, Grade 60
Structural Steel: All Material	

BASIC DESIGN STRESSES

Concrete: Class "A"	f'c = 4,000 psi
Class "LP"	
Reinforcing:	
Plain Reinforcing Steel:	f y = 60,000 psi
Structural Steel	$F y = 36,000 \text{ psi}$



RUMFORD OXFORD COUNTY MORSE BRIDGE OVER

ANDROSCOGGIN RIVER

ROUTE 108 BRIDGE STREET
FEDERAL AID PROJECT NO. 2529300
PROJECT LENGTH 0.066 mi.
BRIDGE NO. 2585

LIST OF DRAWINGS

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UTILITIES

Central Maine Power
Charter Communications
FirstLight
Consolidated Communications
Rumford Water District
Rumford-Mexico Sewerage District

MAINTENANCE OF TRAFFIC

Bridge closure with off-site detour

PROJECT LOCATION	Morse Bridge (#2585) over the Androscoggin River. Located 0.04 of a mile east of Route 2. Lat./Long. 44°32'36.5" N 70°32'47.4" W
PROGRAM AREA	Bridge Program
OUTLINE OF WORK	Joint Modification Wearing Surface Replacement

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RUMFORD MORSE BRIDGE TITLE SHEET

SHEET NU

SHEET NUMBER

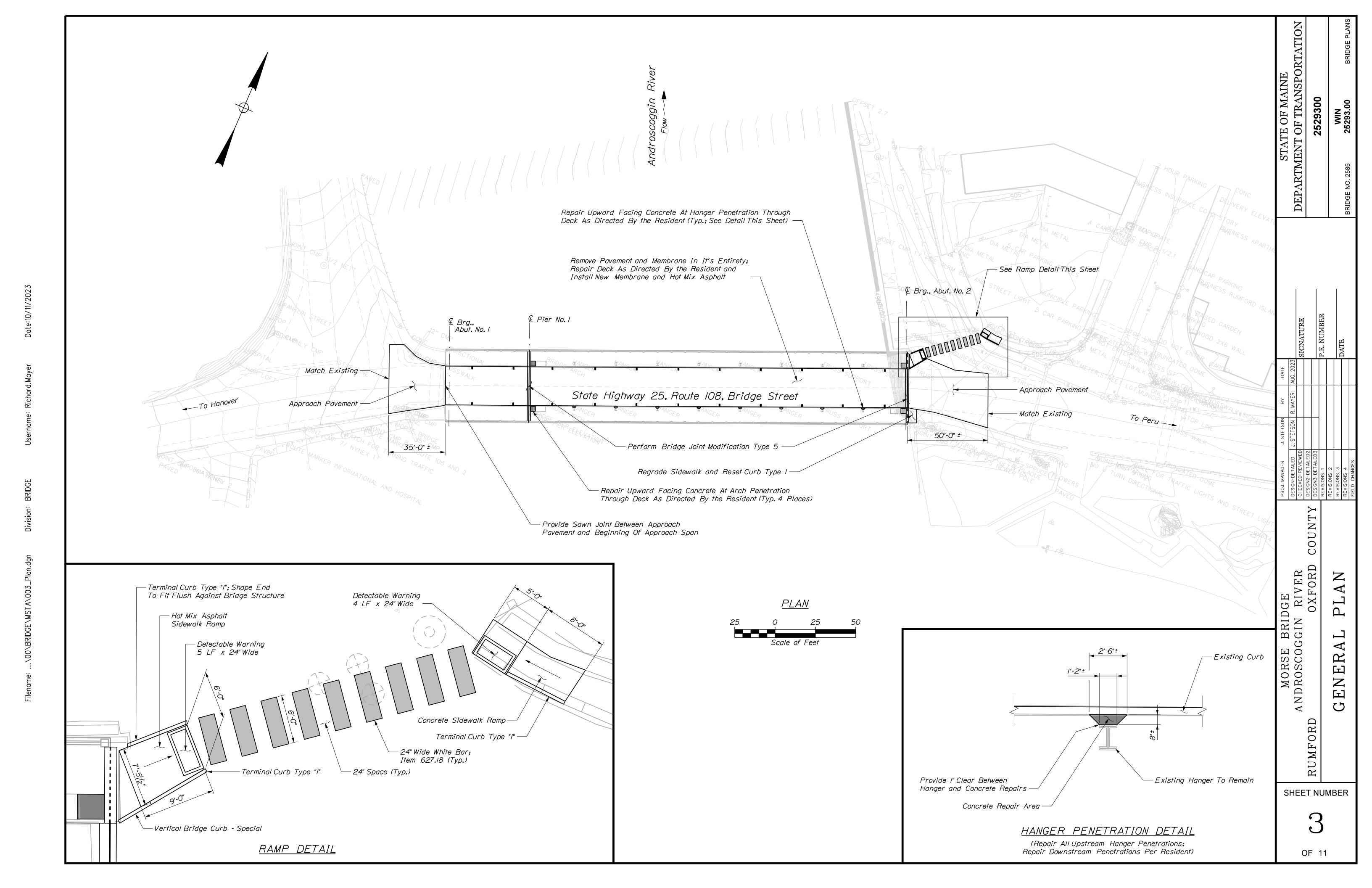
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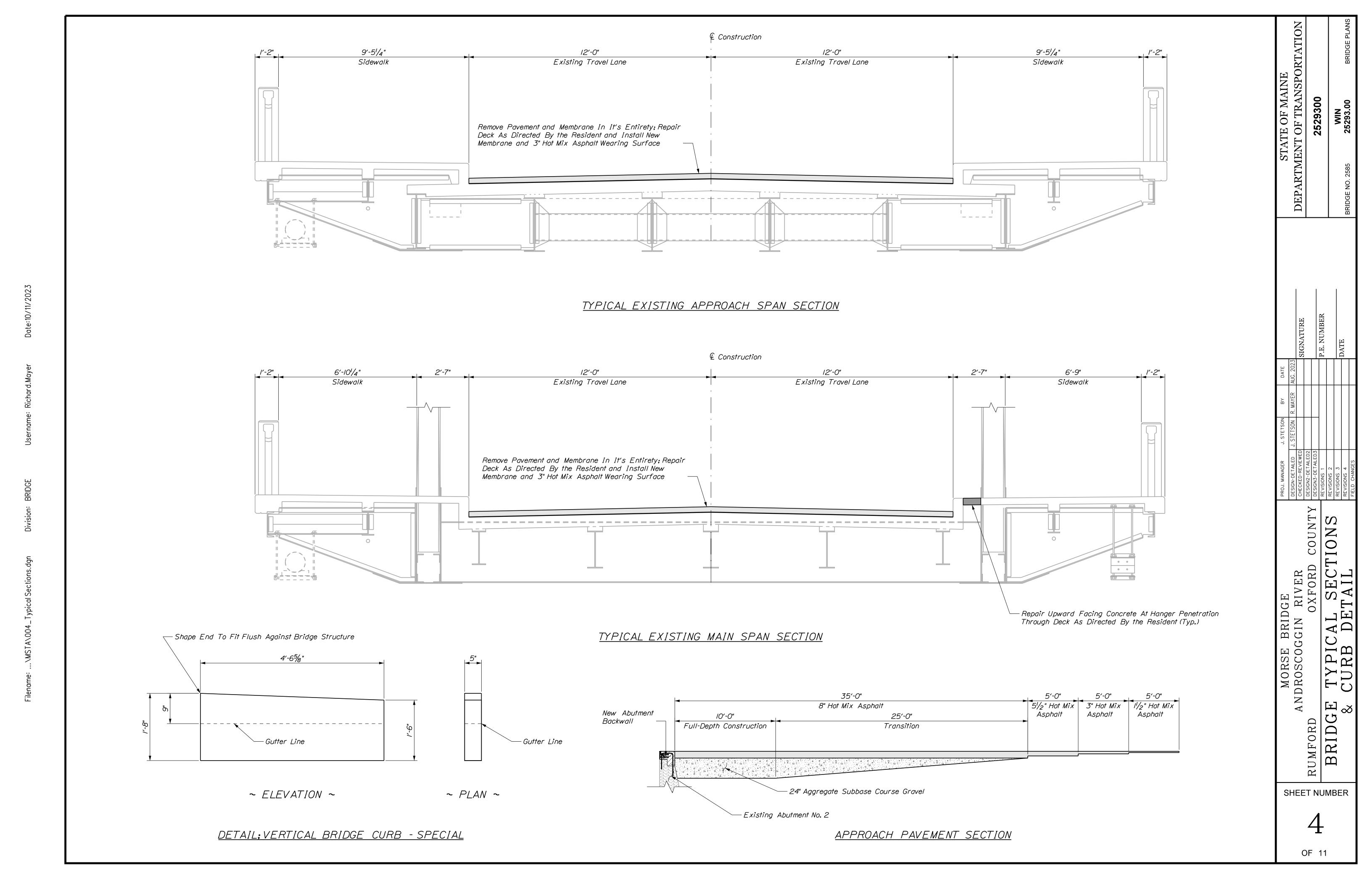
	DESCRIPTION	QUANTITY	UNIT
202.127	REMOVE EXISTING BITUMINOUS PAVEMENT (755 SY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	300	SY
203.20	COMMON EXCAVATION	70	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	50	CY
407.000	IO E JUL DOLVUED HODIEJED JOT HIV ACDUMT	00	T
<i>403.2081</i> <i>403.209</i>	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, ISLANDS, & INCIDENTALS)	88 2	T T
403.2131	12.5 MM POLYMER MODIFIED HMA BASE	109	T
409.15	BITUMINOUS TACK COAT - APPLIED	65	G
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (755 SY)	/	LS
5/5.2/	PROTECTIVE COATING FOR CONCRETE SURFACES (1358 SY)	1	LS
518 . 50 520 . 245	REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 8 IN. BRIDGE JOINT MODIFICATION TYPE 5	400 2	SF EA
526 . 301	PORTABLE CONCRETE BARRIER TYPE I (60 LF)	1	LS
608.08	REINFORCED CONCRETE SIDEWALK	6	SY
608.26	CURB RAMP DETECTABLE WARNING FIELD	28	SF
608.46	REGRADING SIDEWALK	12	SY
609.133 609.23	VERTICAL BRIDGE CURB - SPECIAL TERMINAL CURB TYPE I	<u>5</u> 3	LF EA
609.23	RESET CURB TYPE I	25	LF
627.18	12 " SOLID WHITE PAVEMENT MARKING	108	LF
<i>627.733 627.77</i>	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE REMOVING PAVEMENT MARKINGS	1068 108	LF SF
629 . 05	HAND LABOR, STRAIGHT TIME	108	HR
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	10	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	10	HR
631 . 12 631 . 172	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR) TRUCK - LARGE (INCLUDING OPERATOR)	10 10	HR HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	TYPE III BARRICADE	6	EA
652.33 652.34	DRUM CONE	<u>20</u> 20	EA EA
652.35	CONSTRUCTION SIGNS	800	SF
652 . 361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652 . 38	FLAGGER PORTABLE CHANGEABLE MESSAGE SIGN	<i>120</i> 5	HR EA
656 . 75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL		LS

GENERAL CONSTRUCTION NOTES

- I. For easements, construction limits, and right of way lines, refer to the Right of Way Map.
- 2. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- 3. 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
- 4. Protective Coating for Concrete Surfaces shall be applied to the following areas:
 - All exposed surfaces of concrete curbs, sidewalks and joints, Fascias down to the drip notch, Concrete barrier railing.
- 5. Project information referred to below may be accessed at the following MaineDOT web address: http://www.maine.gov/mdot/contractors/
- 6. 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.
- 7. 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.

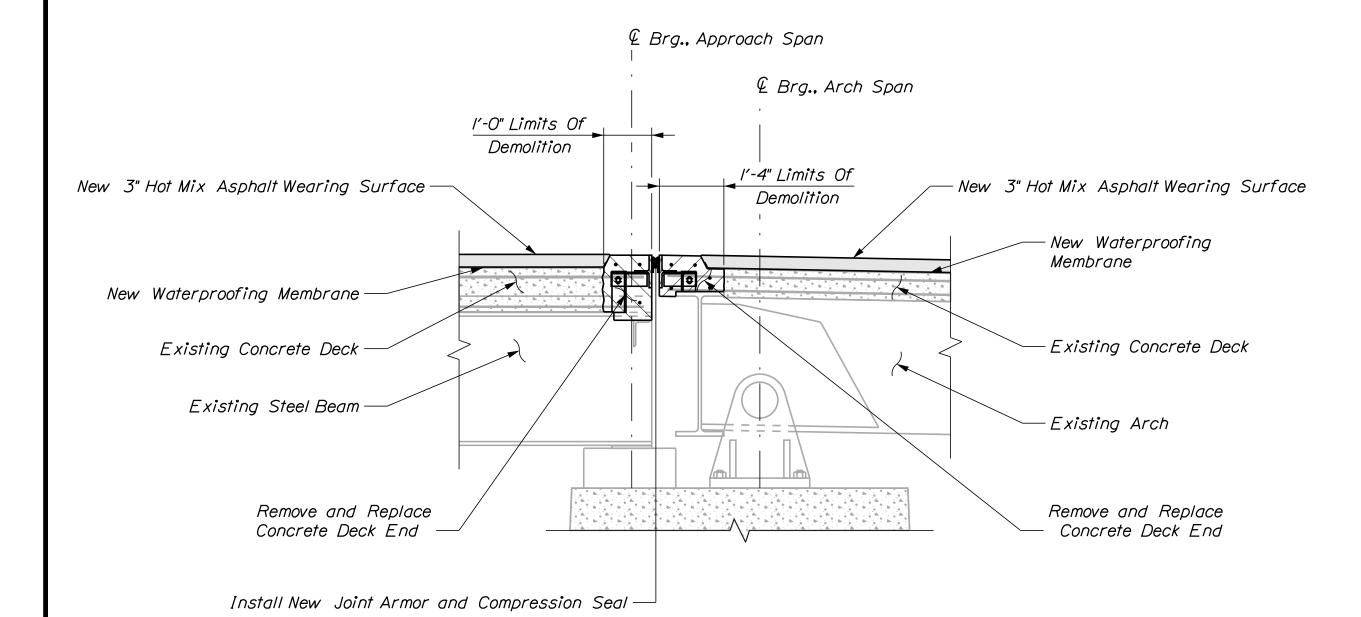
		S	MORSE BRIDGE	PROJ. MANAGER J.	J. STETSON	ВҮ	DATE		STATE OF MAINE	
		HI		DESIGN-DETAILED J. STETSON R. MAYER AUG. 2023	STETSON R.	MAYER #	NG. 2023			1401
(EE	ANDROSCOGGIN RIVER	CHECKED-REVIEWED				SIGNATURE	DEPARIMENT OF I KANSPORTATION	ION
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•		N		DESIGN3-DETAILED3					2529300	
11		UI		REVISIONS 1				P.E. NUMBER	000000	
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		3E		REVISIONS 3				THE	NIA	
		R	CHUNCIPOLICATION IN ARMEDIA	REVISIONS 4				DAIE	BRIDGE NO 2585 25293 00 BRIDGE PLANS	= PI ANS
			LIVELLAR CONCINCOLIUM	FIELD CHANGES					99:99	



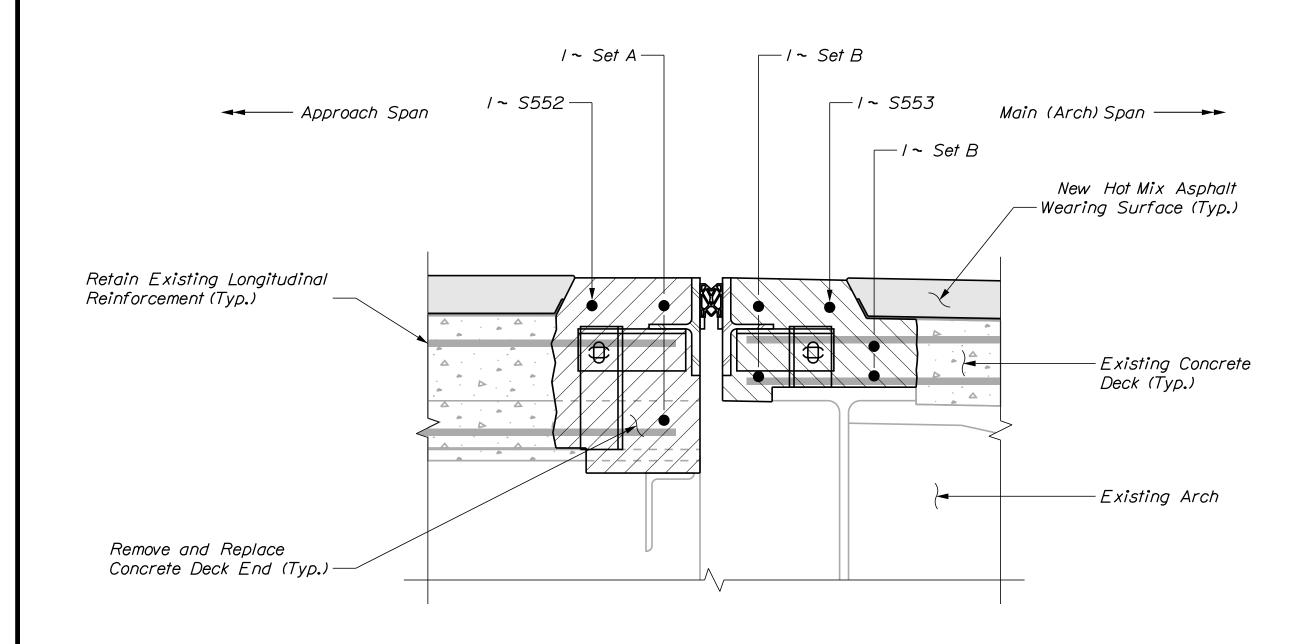


NOTE:

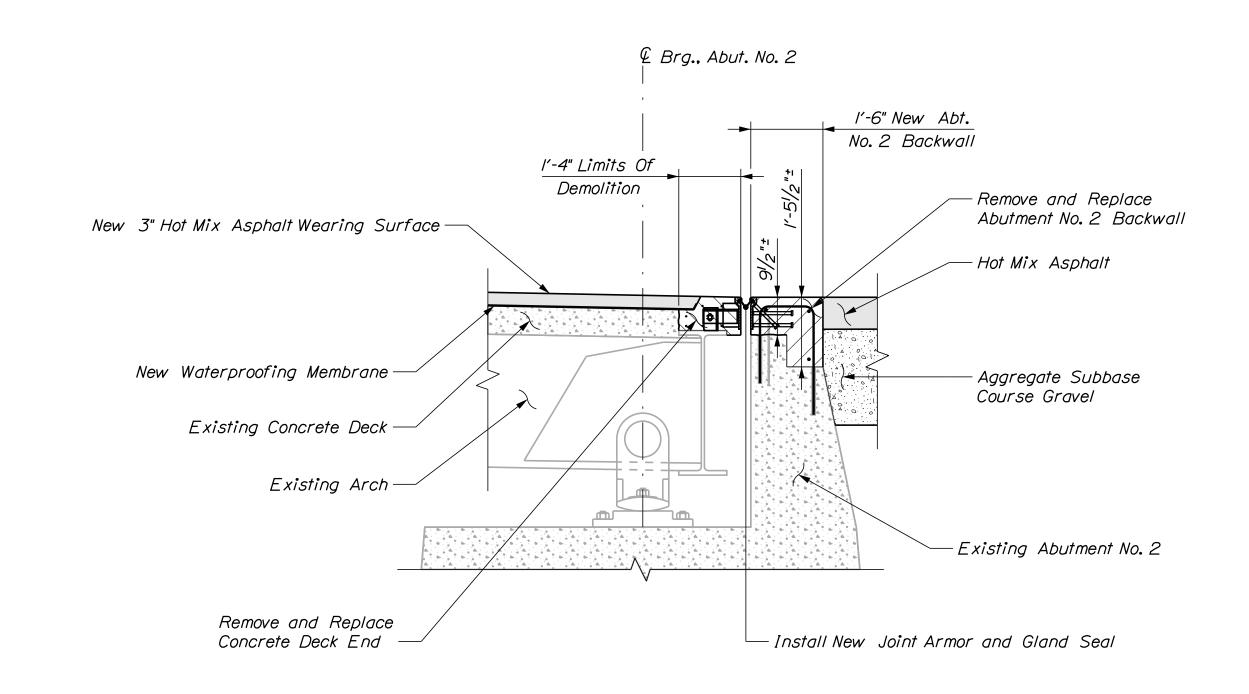
I. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.



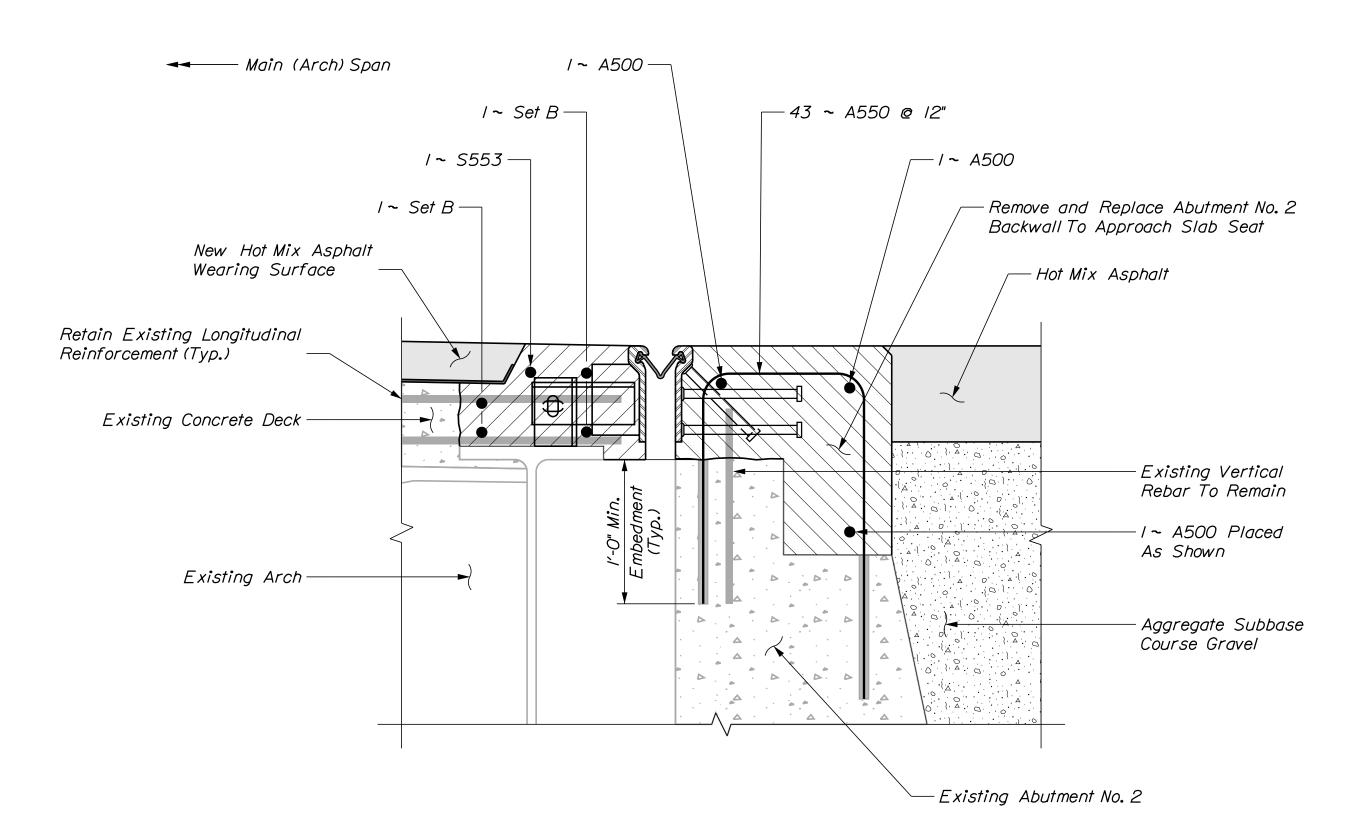
BRIDGE JOINT MODIFICATION TYPE 5 PIER NO. I COMPRESSION SEAL



BRIDGE JOINT MODIFICATION TYPE 5
PIER NO. I COMPRESSION SEAL
REINFORCEMENT SECTION



BRIDGE JOINT MODIFICATION TYPE 5 ABUTMENT NO. 2 GLAND SEAL



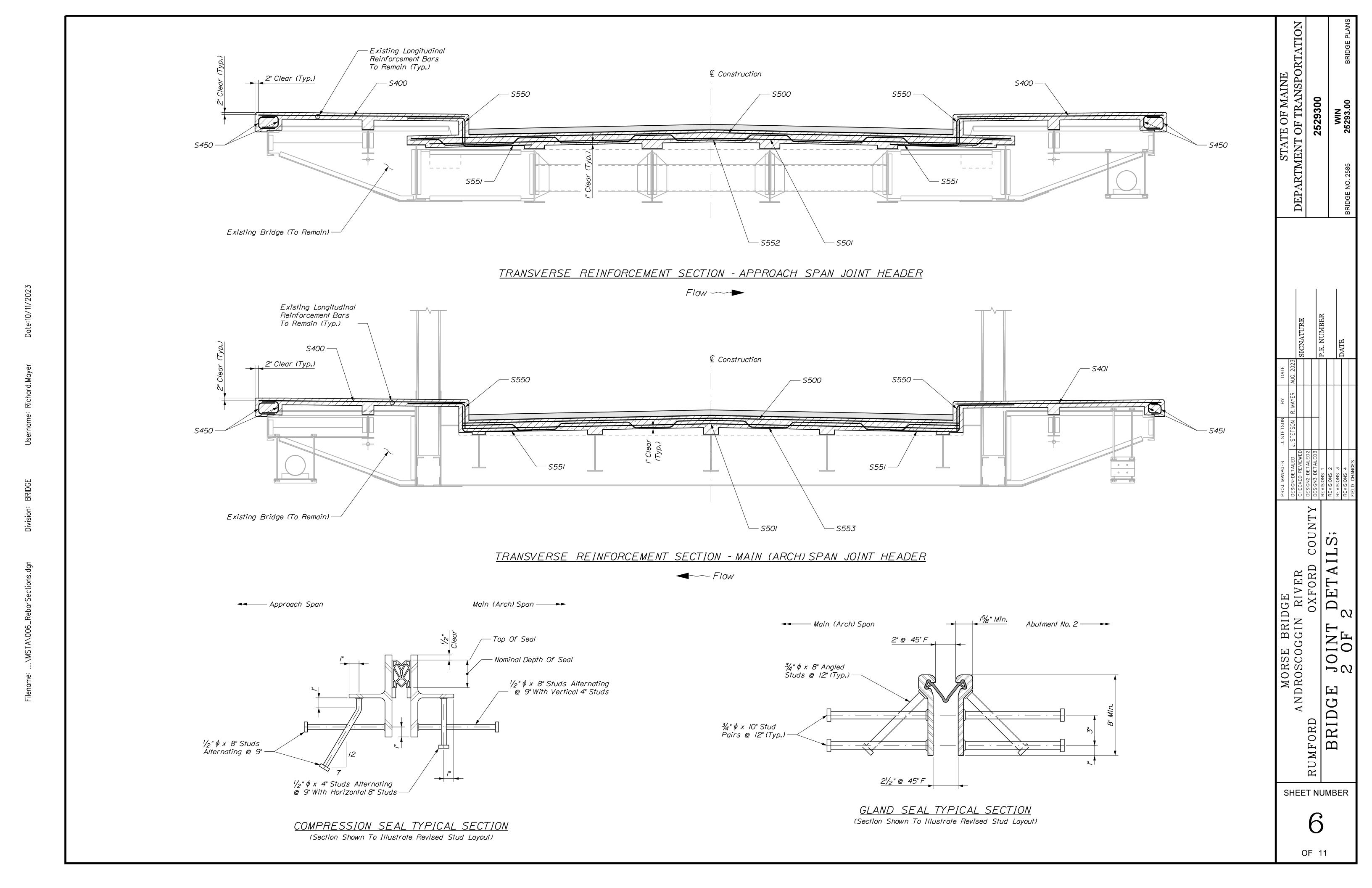
BRIDGE JOINT MODIFICATION TYPE 5

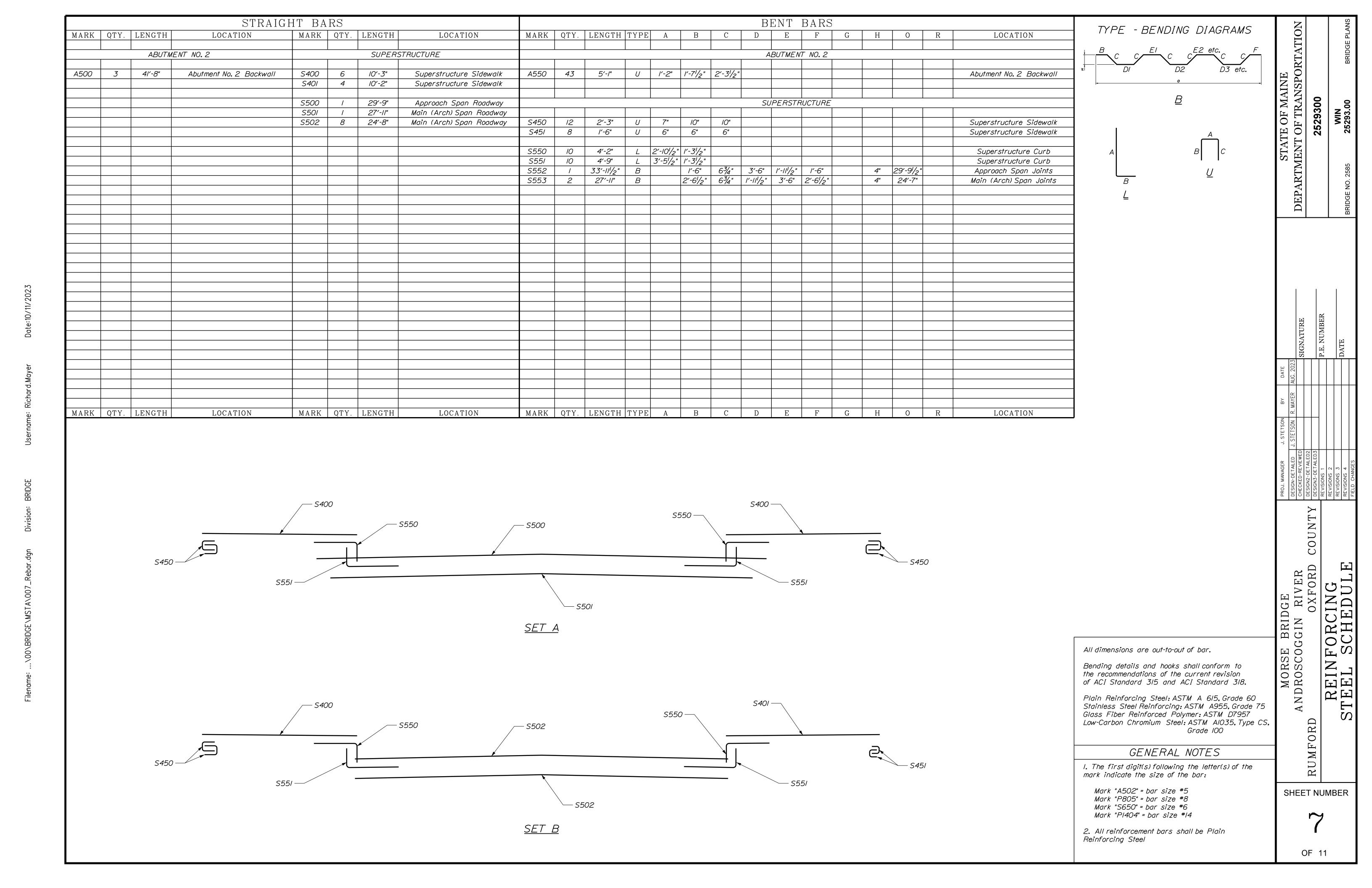
ABUTMENT NO. 2 GLAND SEAL

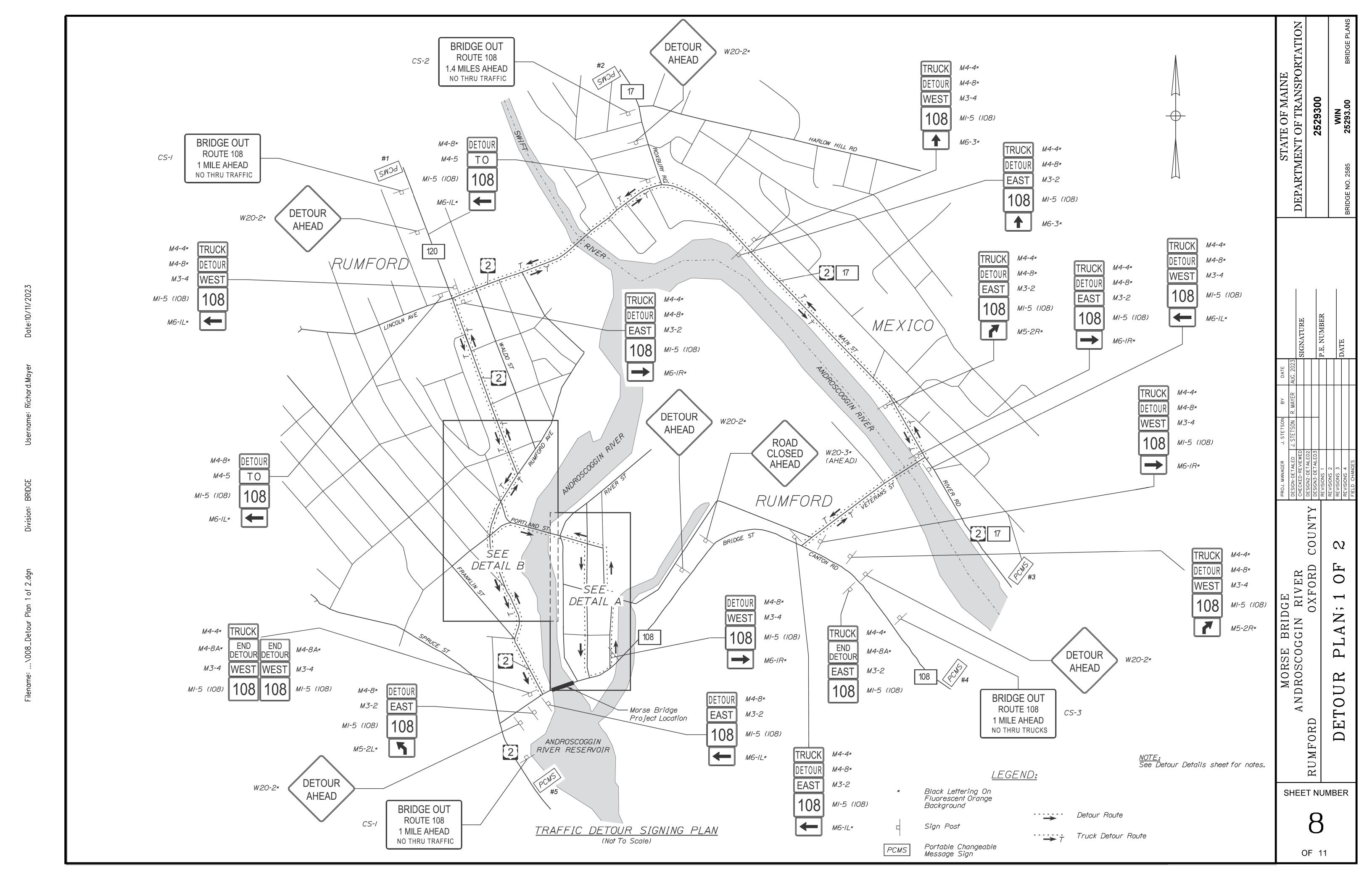
REINFORCEMENT SECTION

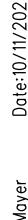
		SIGNATURE			P.E. NUMBER		D A TT.	DAIE	
DATE	AUG. 2023								
B	R. MAYER								
J. STETSON	J. STETSON								
PROJ. MANAGER	DESIGN-DETAILED J. STETSON R. MAYER AUG. 2023	CHECKED-REVIEWED	DESIGN2-DETAILED2	DESIGN3-DETAILED3	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIFI D CHANGES
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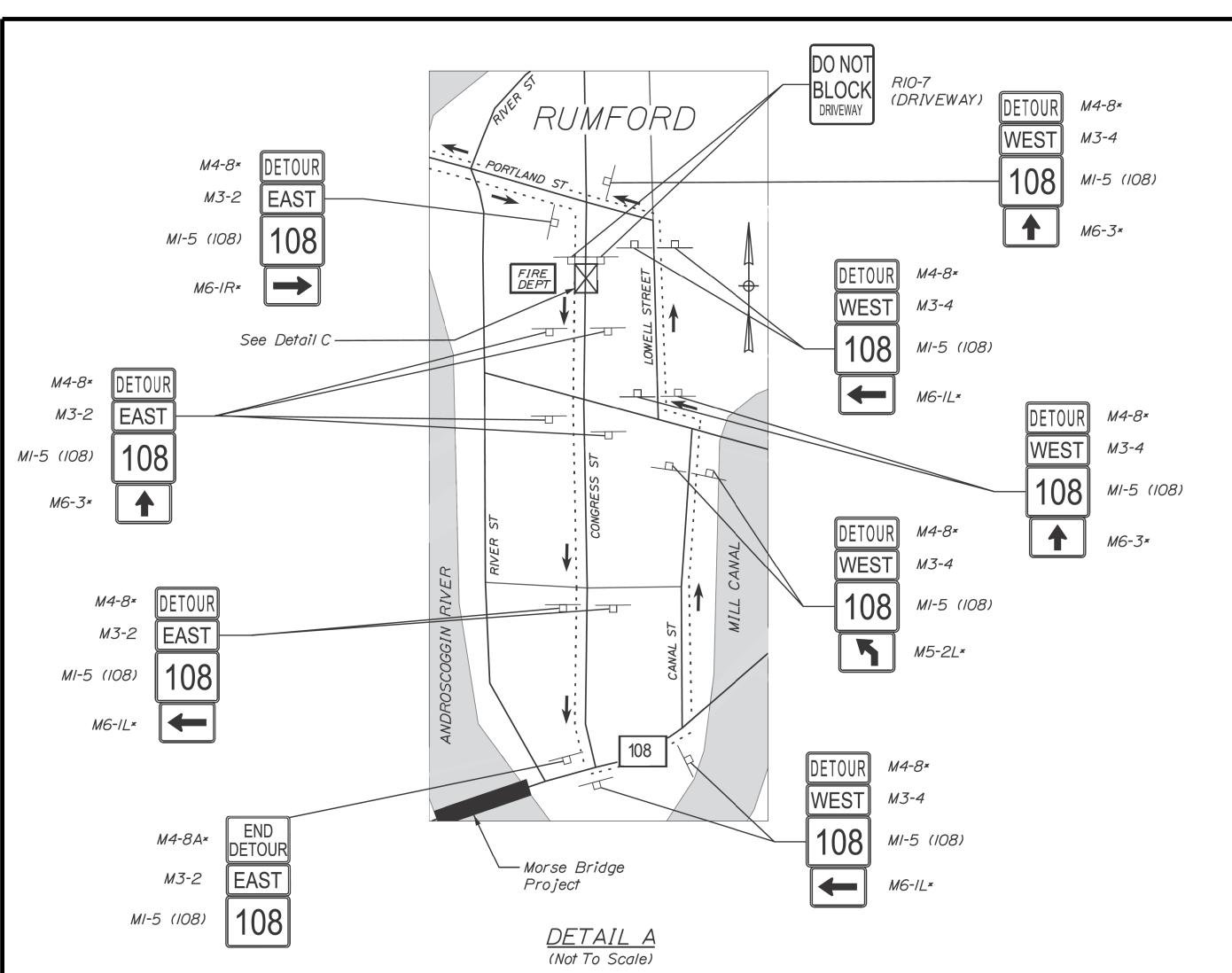
OF 11











MS M-5 (108) M6-IL* Rottland Streey Dunkin Danuts BLOCK RIGHT (Driveway) Town of Rumford Fire Department

DETAIL C

(Not to Scale)

Maine District Court

WES1

MI-5 (108)

M3-4

MI-5 (108)

TRUCK

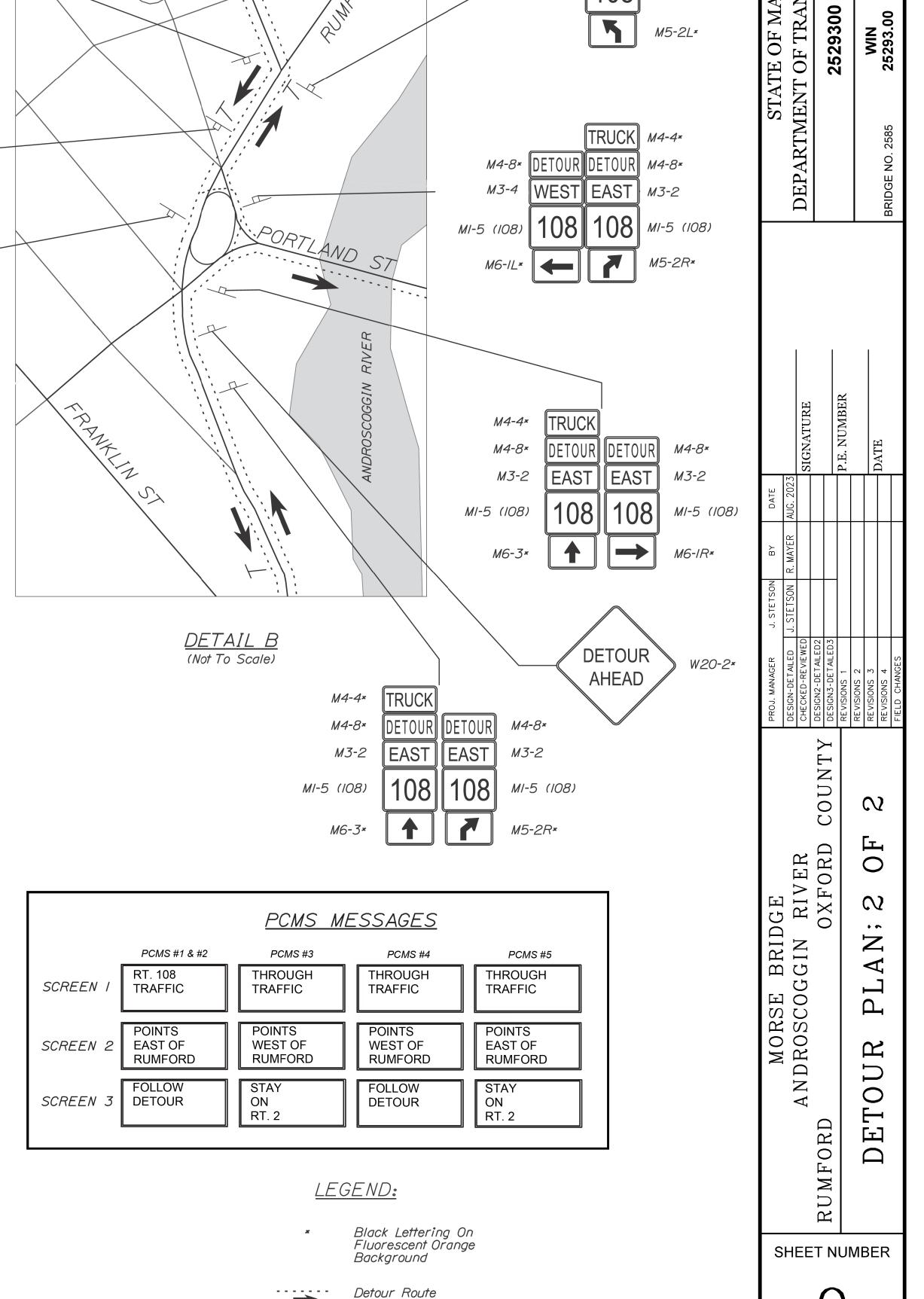
-6" Solid White Outline Box

(to be applied using 6" Temporary Pavement Tape, Item 627.51)

and Diagonal Lines

Davis Florist

M5-2R*



Sign Post

OF 11

EAST

DETOUR SIGNING NOTES

- I. Exact sign locations will be coordinated between the Contractor and the Resident. Signs shall be in accordance with latest edition of the Manual on Uniform Traffic Control Devices (MUTCD), the Standard Highway Signs (SHS) book, and the Maine Department of Transportation Standard Details.
- 2. Portable Changeable Message Signs "PCMS" shall be placed where designated on the Plans or as directed by the Resident I4 days prior to the start of construction to warn of impending detours. These shall then be deployed to locations specified by the Resident once construction has begun if necessary. Payment for these signs, including relocating during construction, shall be included in Item 652.41, "Portable-Changeable Message Sign."
- 3. Installation of detour signs shall not block any existing traffic control sign assemblies and shall modify or be placed adjacent to existing sign assemblies when possible. The Contractor shall maintain at least 200 feet between sign assemblies whenever possible.
- 4. Existing signs that are in conflict with the traffic flow of the detour shall be removed or covered by the Contractor. All signs removed or covered shall be replaced or uncovered when the detour is disassembled. Payment for this work will be incidental to the 652 Items.

	SIZE C	OF SIGN			LOR	T	EXT DIMENSIO	 DNS	NUMBER	SIGN AREA	(SQ. FEET)
<i>MUTCD</i> NUMBER	WIDTH	HEIGHT	TEXT	BACK-	LEGEND	LETTER	VERTICAL	SHIELD/	OF SIGNS	NOM.	TOTAL
MI-5 (108)	30"	24"	108	GROUND WHITE	BORDER BLACK		SPACING DIMENSIONS DRM TO "STAN		REQUIRED 49	AREA 5	AREA 245
(108)		_ ′			22,101		HIGHWAY SIGNS				
M3-2	24"	12"	EAST	WHITE	BLACK				22	2	44
МЗ-4	24"	12"	WEST	WHITE	BLACK				23	2	46
M4-4	24"	12"	TRUCK	ORANGE	BLACK				18	2	36
M4-5	24"	12"	TO	WHITE	BLACK				2	2	4
M4-8A	24"	18"	END DETOUR	ORANGE	BLACK				4	3	12
M4-8	24"	12"	DETOUR	ORANGE	BLACK				41	2	82
M4-10L	48"	18"	DETOUR	ORANGE	BLACK				/	6	6
M4-IOR	48"	18"	DETOUR	ORANGE	BLACK				1	6	6
M5-2L	2/"	<i>15</i> "		ORANGE	BLACK				4	2.19	8.76
M5-2R	2/"	<i>15</i> "		ORANGE	BLACK				5	2.19	10.95
M6-IL	21"	<i>15</i> "		ORANGE	BLACK				13	2.19	28.47
M6-IR	21"	15"		ORANGE	BLACK				6	2.19	13.14

M6-3 2" 15"	0	2529300				NUMBER	P.E. NUI		DESIGN3-DETAILED3 REVISIONS 1 REVISIONS 2
MG-3 21" 15" T	AAINE ANSPORTATION	E OF MOTE MOTE TEA	STAT RTMENT	DEPA		URE	DATE G. 2023	BY R. MAYER	ب ا
MUNTED M									
MUTCD MUDTH HEIGHT TEXT BACK LEGEND LETTER VERTICAL SHIELD OF SIGNS NOM. AREA		TOTAL		10	20	63	9	50	16.67
MITCD NUMBER WIDTH HEIGHT TEXT BACK- LEGEND BORDER LETTER VERTICAL SHIELD/ ARROW REQUIRED		NOM.		5	10	9	9	16 . 67	<i>16.67</i>
MUTCD NUMBER WIDTH HEIGHT TEXT BACK- GROUND BORDER LETTER VERTICAL SHIELD/ SPACING SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" DO NOT BLOCK DRIVEWAY RII-2 48" 30" ROAD CLOSED WHITE BLACK WEDTA WHITE BLACK WEACH WHITE BLACK WHITE BLACK ROAD CLOSED ORANGE BLACK ROAD CLOSED ORANGE BLACK BLACK BRIGGE OUT ROUTE 108 1 MIE BLACK ORANGE BLACK ORANGE BLACK GC 4" CS-1 60" 40" BRIDGE OUT ROUTE 108 1 MIE BLACK ORANGE BLACK ORANGE BLACK ORANGE BLACK		OF SIGNS	15	2	2	7	/	3	/
MUTCD NUMBER WIDTH HEIGHT TEXT BACK-GROUND BORDER HEIGHT VERTICAL SPACING M6-3 2" 15"		SHIELD/	HALL DARD				•		
MUTCD NUMBER WIDTH HEIGHT TEXT BACK-GROUND BORDER HEIGHT MG-3 2" 15" ORANGE BLACK CONFORMANCE MIDTH HEIGHT TEXT BACK-GROUND BORDER HEIGHT TEXT TON FOR HEIGHT TEXT TEXT TON FOR HEIGHT TON FOR HEIGHT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TON FOR HEIGHT TON FOR H		VERTICAL	DIMENSIONS S RM TO "STANL				•	4"	4" 4" 4"
MUTCD NUMBER WIDTH HEIGHT TEXT BACK- GROUND BORDER M6-3 21" 15" TO NOT BLOCK DRIVEWAY) 24" 30" DO NOT BLOCK DRIVEWAY) RII-2 48" 30" ROAD CLOSED WHITE BLACK W20-2 36" 36" SETOUR AHEAD ORANGE BLACK CS-1 60" 40" BRIDGE OUT ROUTE 108 1 MILE AHEAD NO THRU TRUCKS ORANGE BLACK		LETTER	TEXT CONFO				•	5C 5C	6C 5C 5C 4C
MUTCD NUMBER WIDTH HEIGHT TEXT BACK-GROUND M6-3 2" 15" TO ORANGE DO NOT BLOCK DRIVEWAY) 24" 30" ROAD CLOSED WHITE W20-2 36" 36" DETOUR AHEAD ORANGE W20-3 (AHEAD) 36" 36" ROAD CLOSED ORANGE CS-1 60" 40" BRIDGE OUT ROUTE 108 1 MILE AHEAD NO THRU TRUCKS ORANGE		LEGEND		BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
MUTCD NUMBER WIDTH HEIGHT TEXT M6-3 2" 15" DO NOT BLOCK DRIVEWAY) RII-2 48" 30" ROAD CLOSED W20-2 36" 36" DETOUR AHEAD W20-3 (AHEAD) 36" 36" ROAD CLOSED CS-1 60" 40" BRIDGE OUT ROUTE 108 1 MILE AHEAD NO THRU TRUCKS		BACK-		WHITE	WHITE	ORANGE	ORANGE	ORANGE	ORANGE
MUTCD NUMBER WIDTH HEIGHT M6-3 2I" 15" RIO-7 (DRIVEWAY) 24" 30" RII-2 48" 30" W20-2 36" 36" (AHEAD) 36" 36"		TEXT		BLOCK			CLOSED >	1 MILE AHEAD	BRIDGE OUT ROUTE 108 1.4 MILES AHEAD NO THRU TRUCKS
MUTCD NUMBER WIDTH M6-3 21" RIO-7 (DRIVEWAY) 24" W20-2 36" W20-3 (AHEAD) 36"			/5"	30"	30"	36"	36"	40"	40"
NUMBER M6-3 RIO-7 (DRIVEWAY) RII-2 W20-2 W20-3 (AHEAD)			21"	24"	48"	36"	<i>36</i> "	60"	60"
			M6-3	RIO-7 (DRIVEWAY)	RII-2	W20-2	W20-3 (AHEAD)	CS-I	CS-2

SHEET NUMBER

RUMFORD

SIGNAGE

DETOUR

OF 11

