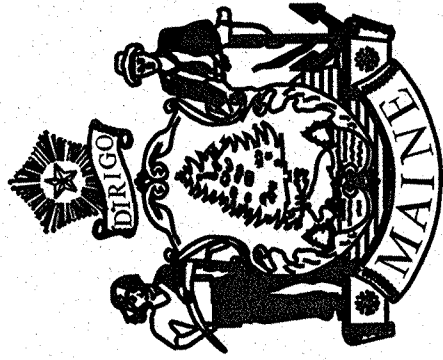


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



ORONO
PENOBSCOT COUNTY
BRANDON M. SILK
MEMORIAL BRIDGE
OVER
STILLWATER RIVER
MAIN STREET (US Route 2)
PROJECT NO. 030139.00
PROJECT LENGTH 0.096 mi.
BRIDGE NO. 2278

SPECIFICATIONS

Design: Load Factor Design per AASHTO Standard Specifications for Highway Bridge 1989 and Interim Specifications 1990 and 1991.

DESIGN LOADING

Live Load HS20

MATERIALS

Concrete: Patching Material Class A
for Deck Repairs or MaineDOT QPL

Reinforcing: Plain Reinforcing Steel ASTM A615, Grade 60

Joint Headers: Polyester Polymer Concrete See Special Provision 502

BASIC DESIGN STRESSES

Reinforcing: Plain Reinforcing Steel f y = 60,000 psi

LIST OF DRAWINGS

- Title Sheet 1
- Quantities, Notes & Misc. 2
- General Plan 3
- General Plan 4
- Typical Sections 5
- Staged Construction Sections 6
- Joint Modification Existing 7
- Joint Modification Demolition 8
- Joint Modification Proposed 9
- Detour Plan 10
- Shop Details - Bridge Joints 11
- Shop Details - Bridge Joints 12

UTILITIES

Bangor Natural Gas Company
Charter Communications Inc.
Consolidated Communications
GoNetSpeed
Orono-Yeazie Water District
University of Maine System
Versant Power
Town of Orono - Bridge Lighting

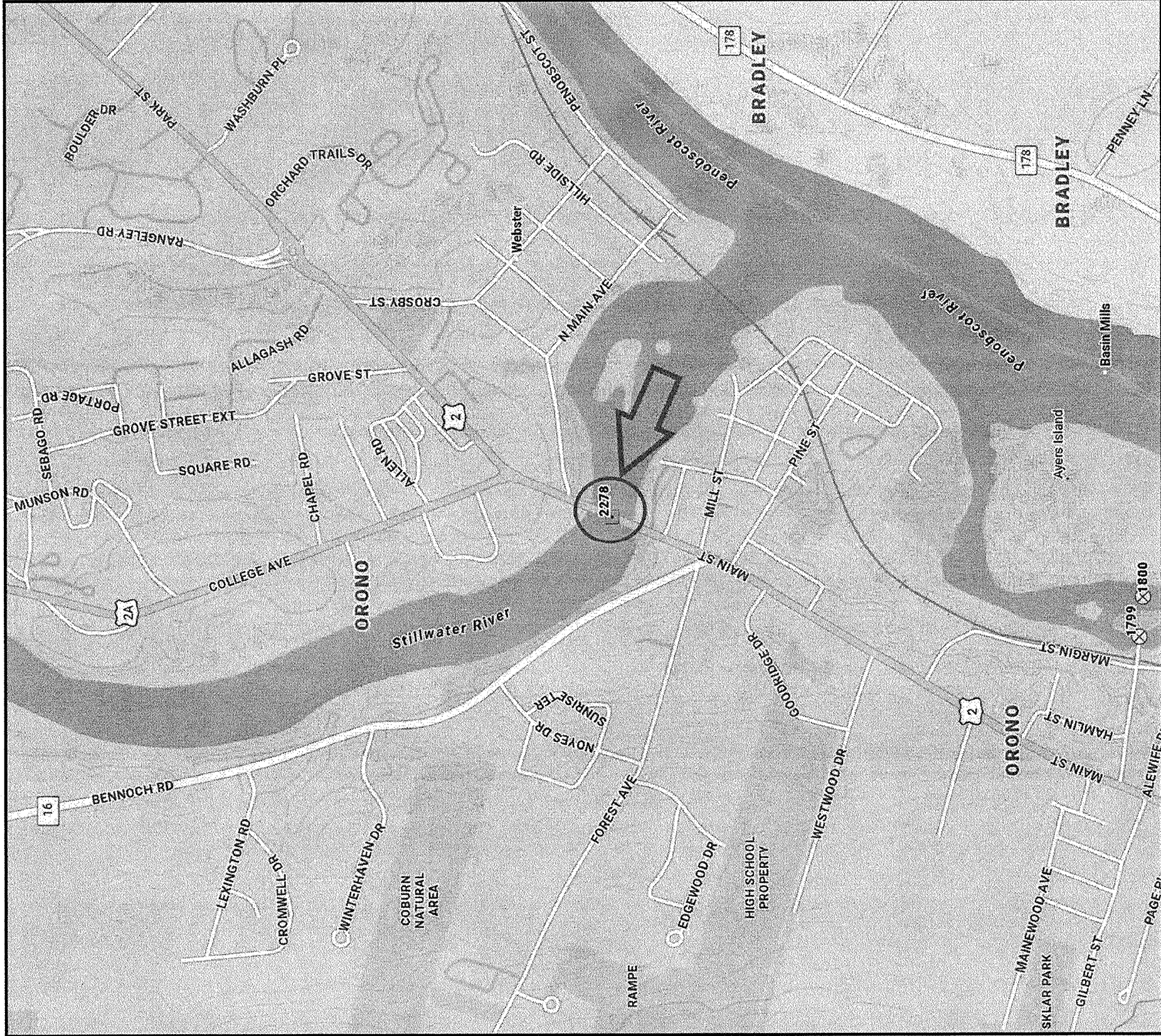
TRAFFIC DATA

Current (2025) AADT 14,280
Future (2037) AADT 15,140
DHV - % of AADT 10%
Design Hour Volume 1,569
Heavy Trucks (% of AADT) 2%
Heavy Trucks (% of DHV) 1%
Directional Distribution (% of DHV) 53%
18 kip Equivalent P 2.0 165
18 kip Equivalent P 2.5 157
Design Speed (mph) 25 mph

MAINTENANCE OF TRAFFIC

Maintain one 12'-0" wide lane of one direction traffic over the bridge during construction using staged construction. Detour the southbound US RTE 2 traffic during construction in accordance with the Detour Plan shown on Plan Sheet 10 and in accordance with Special Provisions.

PROJECT LOCATION	Brandon M. Silk Memorial Bridge (#2278) over Stillwater River Lat./Long. 44°53'7.944" N 68°40'15.096" W
PROGRAM AREA	Maintenance & Operations
OUTLINE OF WORK	Bridge Wearing Surface Replacement



LOCATION MAP

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED
COMMISSIONER
1-16-25

CHIEF ENGINEER
1-14-2025

PROJECT INFORMATION

PROGRAM
DESIGNER
CONSULTANT
PROJECT RESIDENT
CONTRACTOR
PROJECT COMPLETION DATE

MAINTENANCE & OPERATIONS
M&O REGION 4
JOEL VELLEUX
P.E. NUMBER
1/10/2025
DATE

SIGNATURE
13280

ORONO
BRANDON M. SILK MEMORIAL
TITLE SHEET

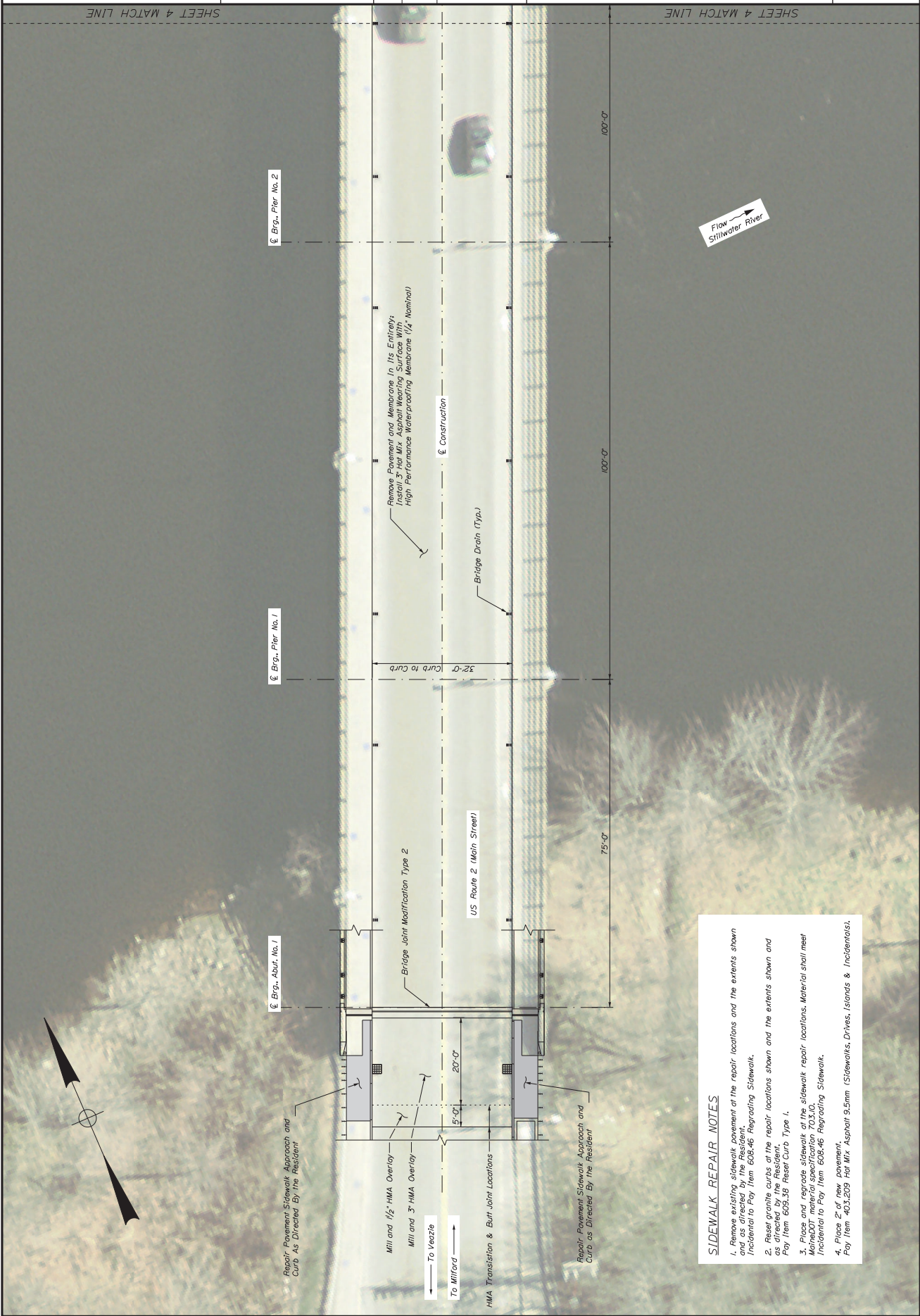
PROJECT INFORMATION

PROJECT COMPLETION DATE
CONTRACTOR
PROJECT RESIDENT
CONSULTANT
PROJECT MANAGER
DESIGNER
MAINTENANCE & OPERATIONS
M&O REGION 4
JOEL VELLEUX
P.E. NUMBER
1/10/2025
DATE

SIGNATURE
13280

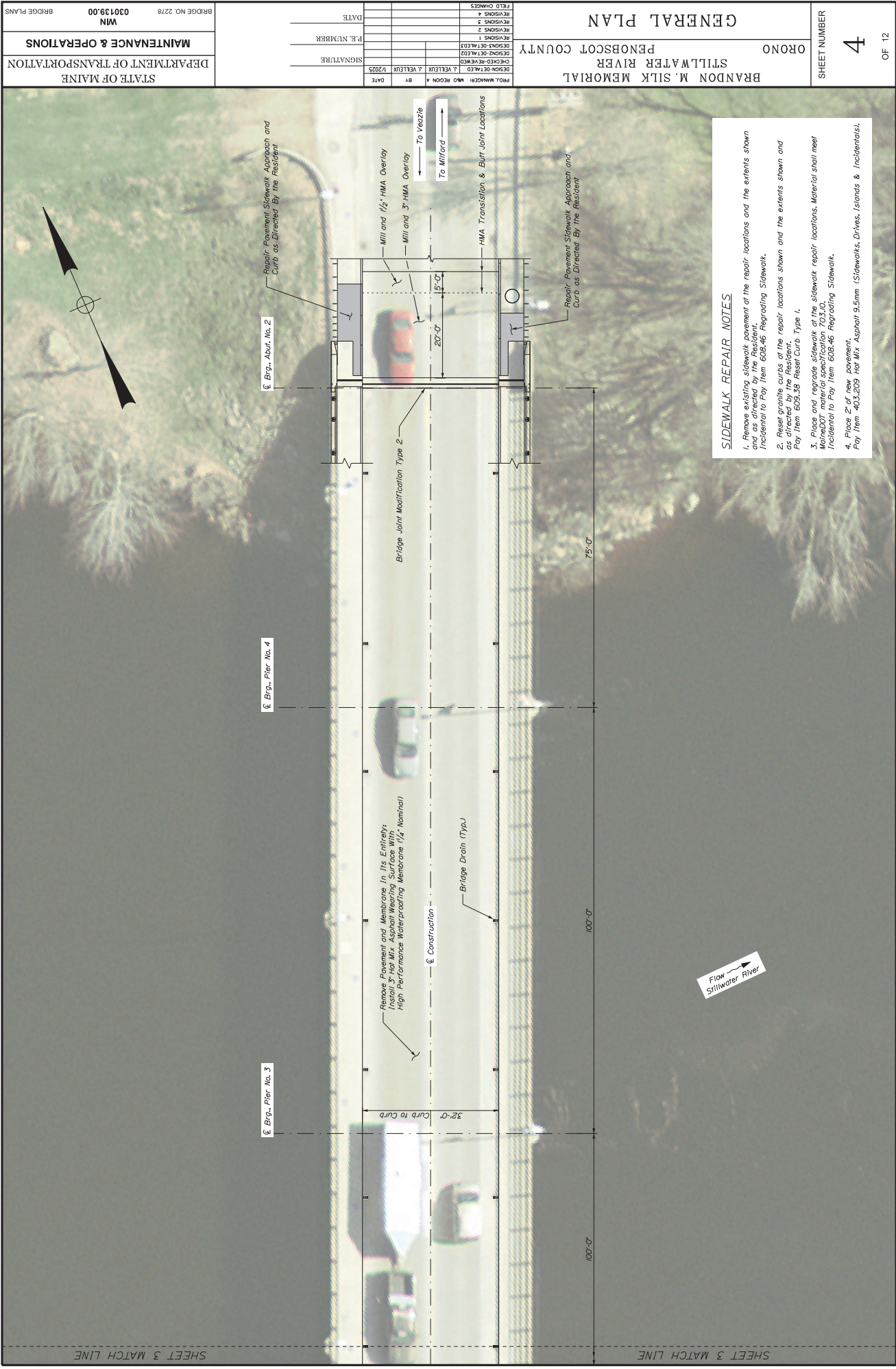
1
OF 12

SHEET NUMBER



SIDEWALK REPAIR NOTES

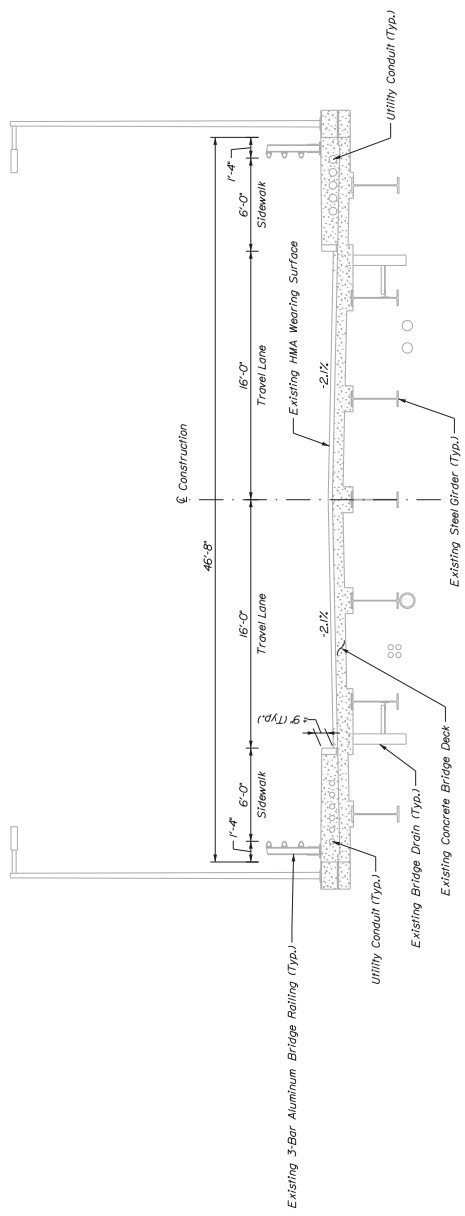
1. Remove existing sidewalk pavement at the repair locations and the extents shown and as directed by the Resident.
Incidental to Pay Item 608-46 Regrading Sidewalk.
2. Reset granite curbs at the repair locations shown and the extents shown and as directed by the Resident.
Pay Item 609-38 Reset Curb Type 1.
3. Place and regrade sidewalk at the sidewalk repair locations. Material shall meet MaineDOT material specification 703.00.
Incidental to Pay Item 608-46 Regrading Sidewalk.
4. Place 2" of new pavement.
Pay Item 403-209 Hot Mix Asphalt 9.5mm (Sidewalks, Drives, Islands & Incidentals).



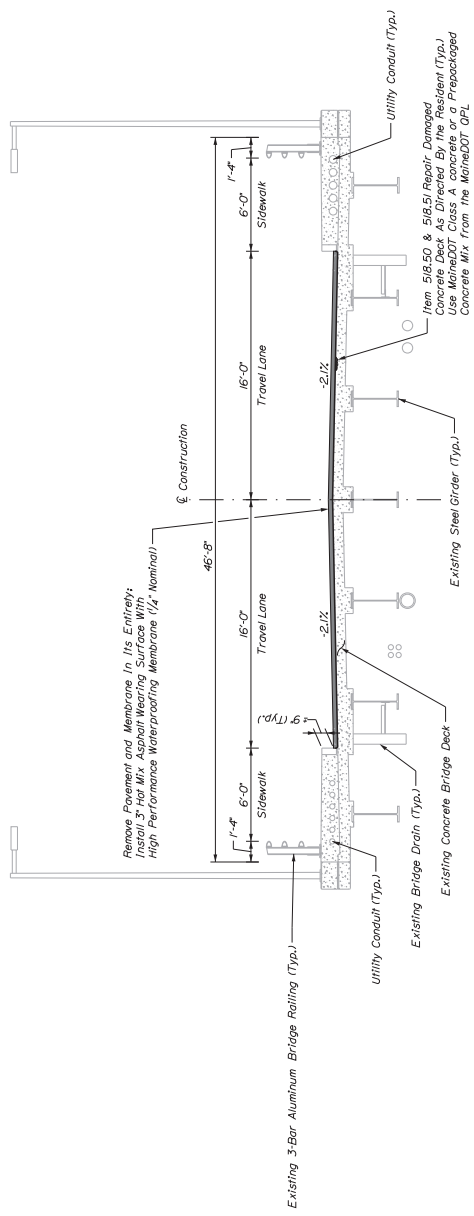
SIDEWALK REPAIR NOTES

- 1. Remove existing sidewalk pavement at the repair locations and the extents shown and as directed by the Resident. Incidental to Pay Item 608-46: Regrading Sidewalk.
- 2. Reset granite curbs at the repair locations shown and the extents shown and as directed by the Resident. Pay Item 609-38: Reset Curb Type 1.
- 3. Place and upgrade sidewalk at the sidewalk repair locations. Material shall meet MaineDOT material specification 703.10. Incidental to Pay Item 608-46: Regrading Sidewalk.
- 4. Place 2" of new pavement. Pay Item 403-209: Hot Mix Asphalt 9.5mm (Sidewalks, Drives, Islands & Incidentals).

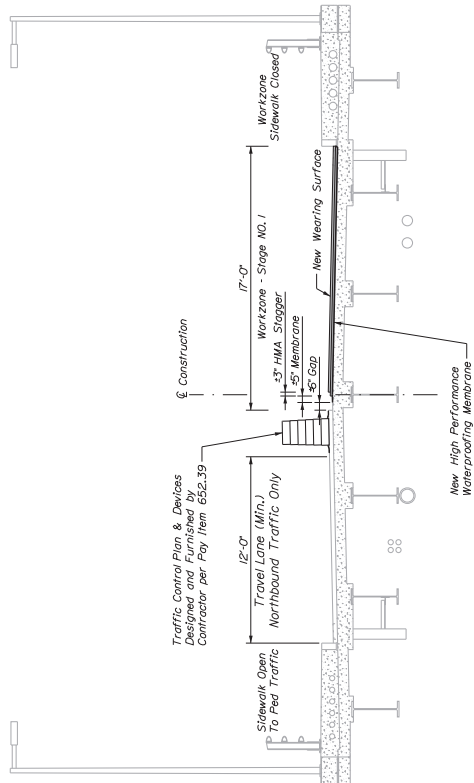
BRANDON M. SILK MEMORIAL STILLWATER RIVER PENOBSCOT COUNTY ORONO		GENERAL PLAN	
SHEET NUMBER 4		OF 12	
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		MAINTENANCE & OPERATIONS	
BRIDGE NO. 2278 WIN 030139.00		DATE	
PROJECT MANAGER: J. VELLEUX DESIGN: J. VELLEUX CHECKED: J. VELLEUX DATE: 1/10/2025		P.E. NUMBER	
SIGNATURE		DATE	



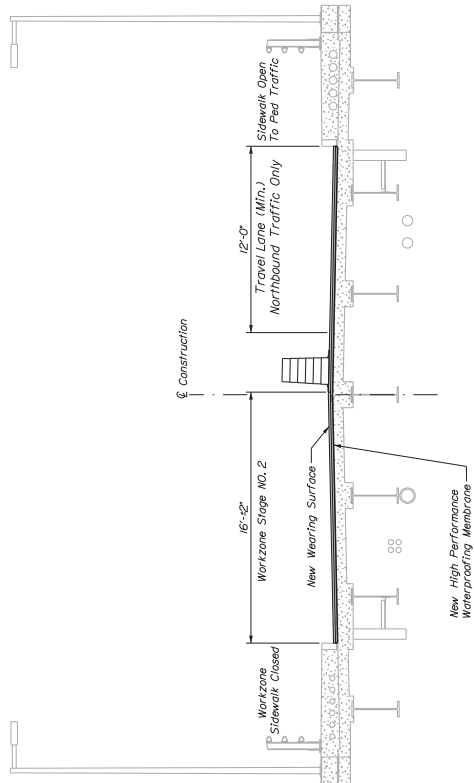
EXISTING BRIDGE TYPICAL SECTION



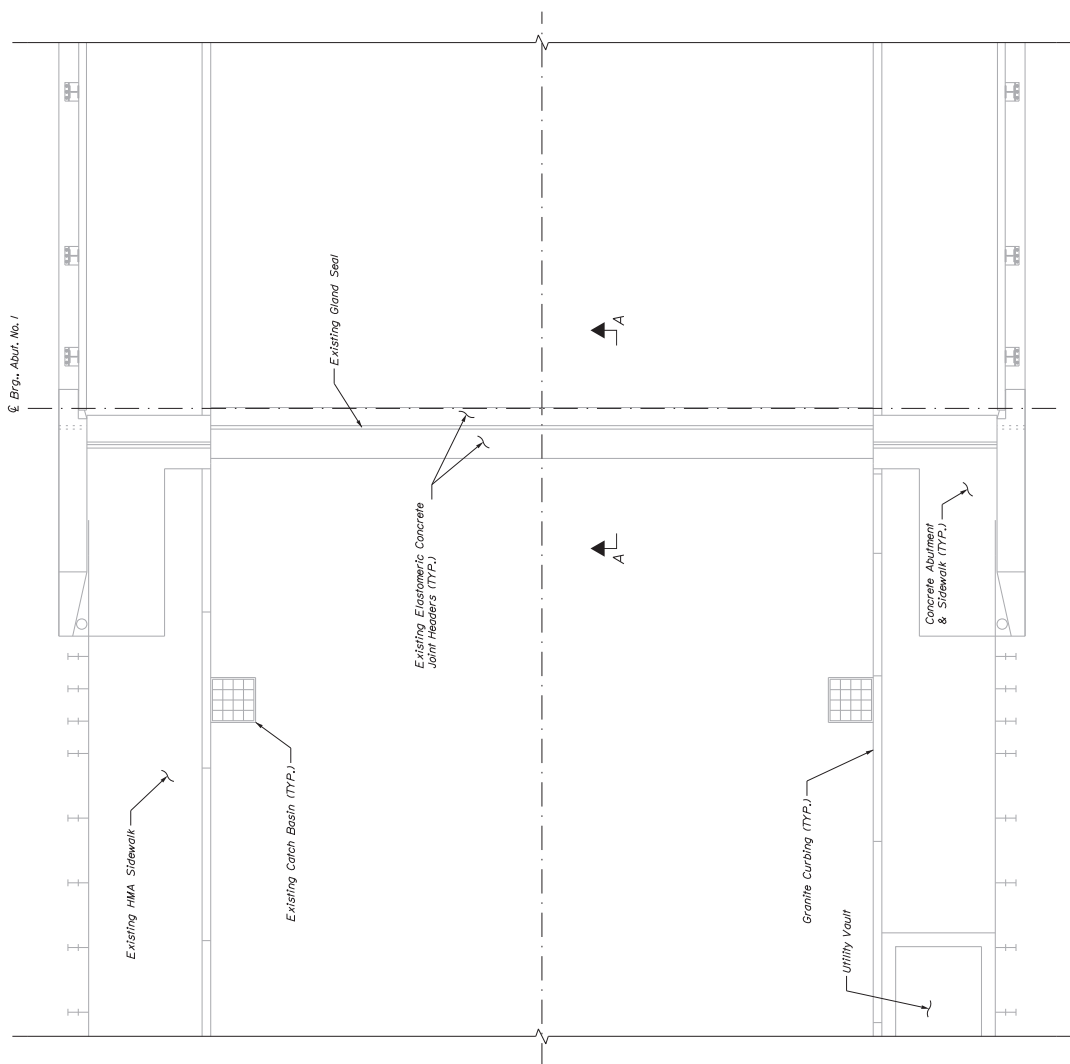
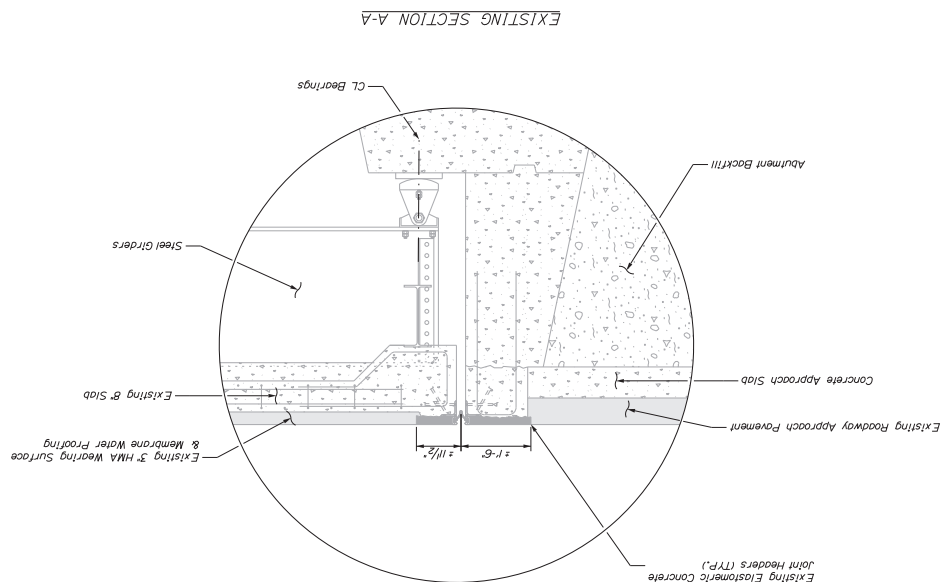
PROPOSED BRIDGE TYPICAL SECTION



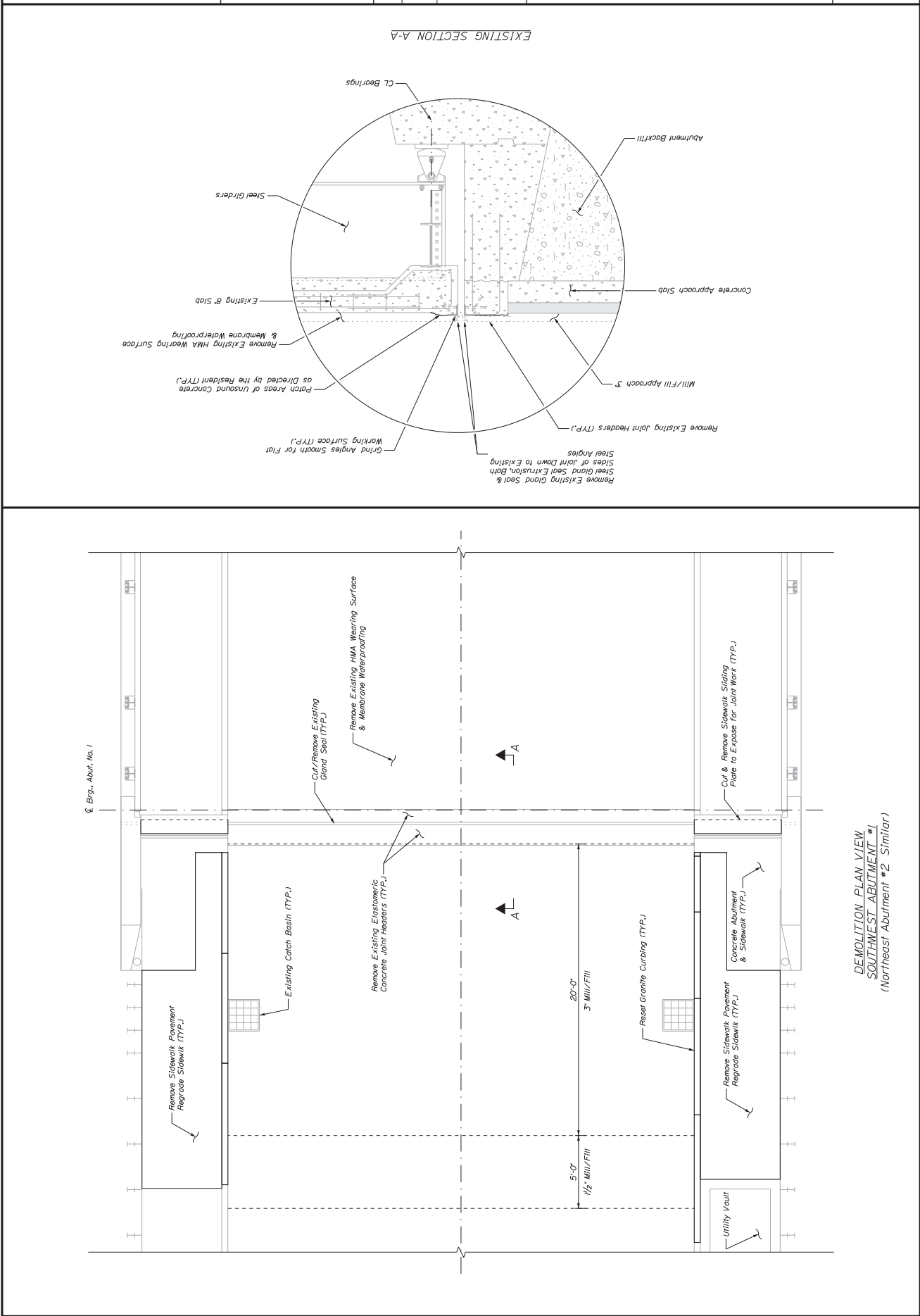
STAGE NO. 1
(Shown for illustrative purposes, Contractor may stage either side of the bridge first, at their option)



STAGE NO. 2



EXISTING PLAN VIEW
SOUTHWEST ABUTMENT #1
(Northeast Abutment #2 Similar)

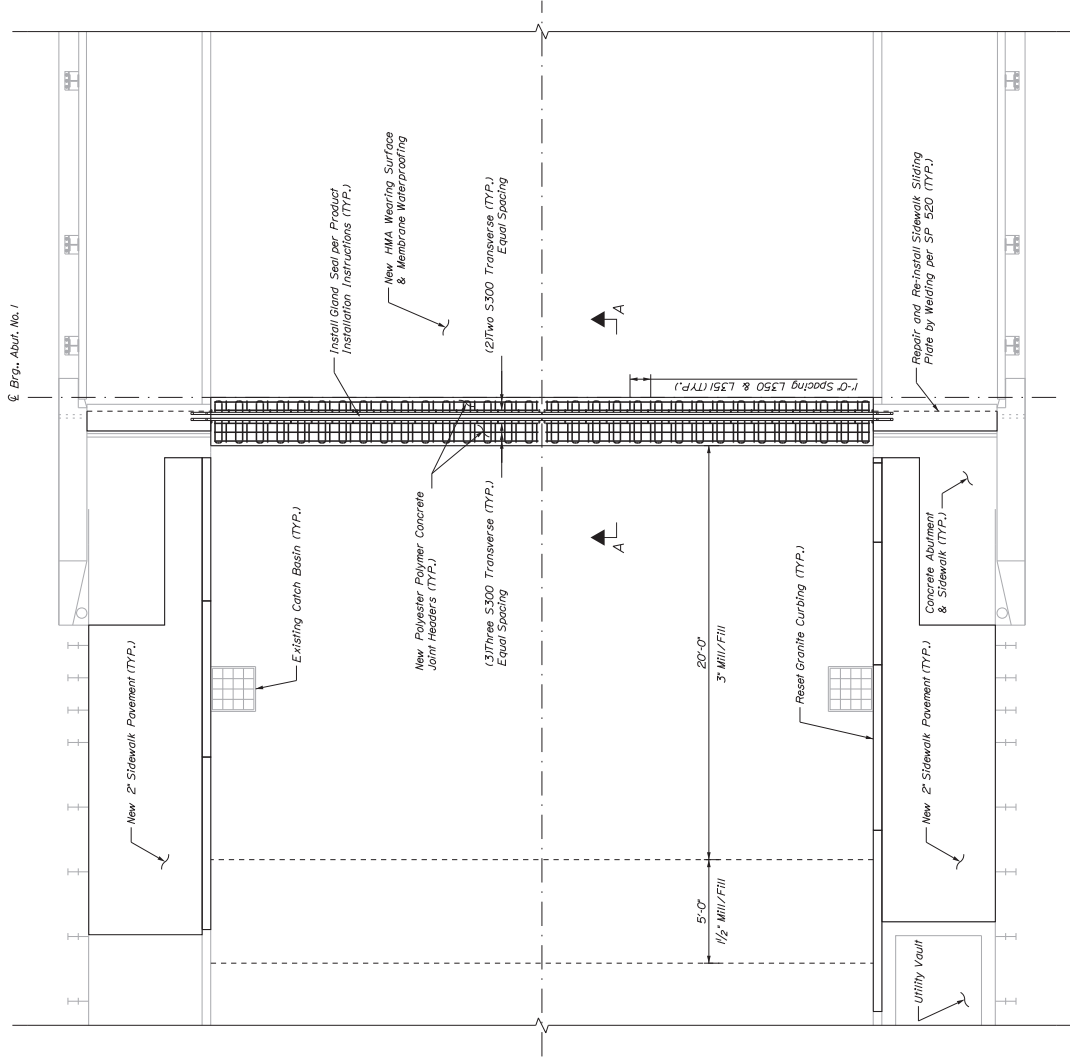
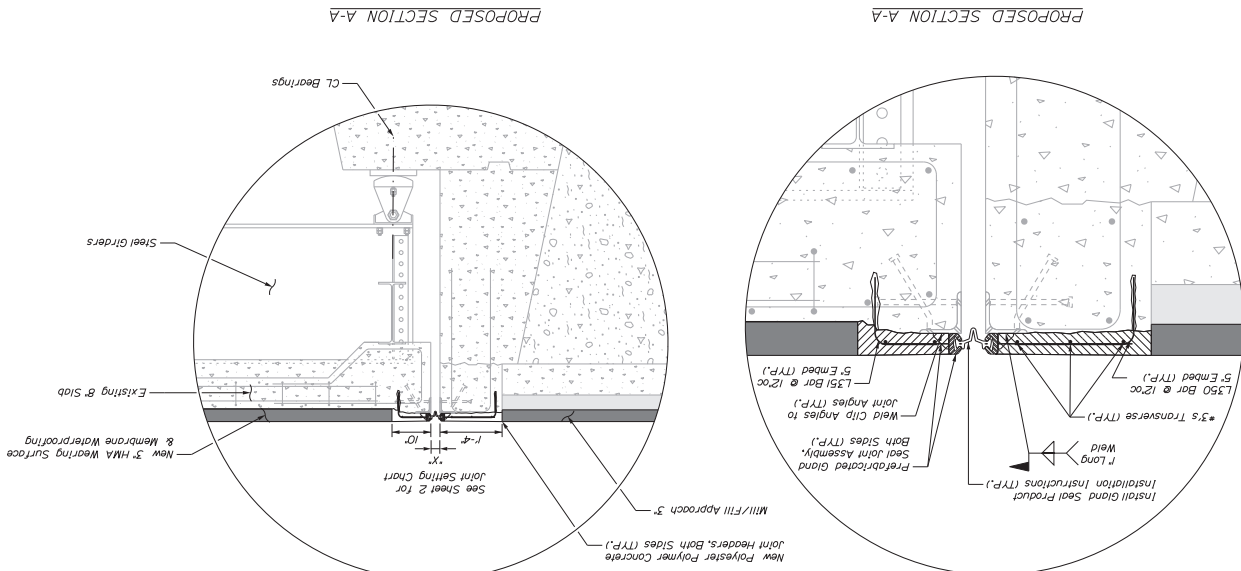


BRANDON M. SLEK MEMORIAL
STILLWATER RIVER
PENOBSCOT COUNTY ORONO

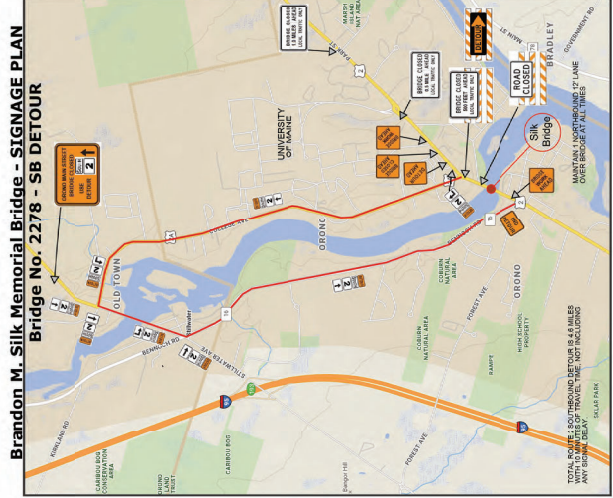
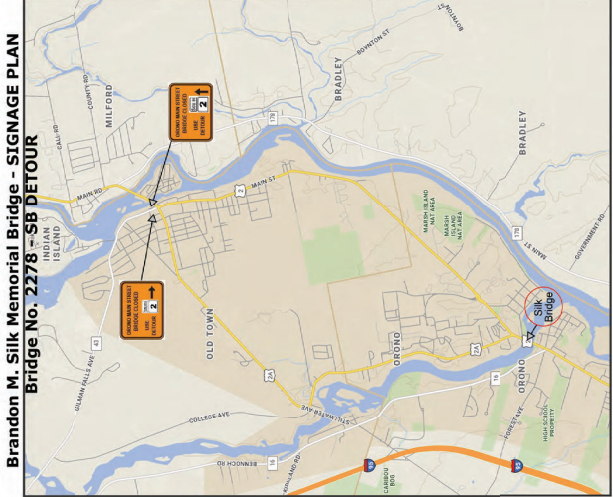
DESIGN DETAIL	J. VETLUX	J. VETLUX	1/2025
CHECKED-REVIEW			
DESIGN DETAIL			
DESIGN DETAIL			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD COMMENTS			
DATE			
P.F. NUMBER			
SIGNATURE			

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
MAINTENANCE & OPERATIONS

WIN
030139.00
BRIDGE NO. 2278
BRIDGE PLANS



DEMOLITION PLAN VIEW
SOUTHWEST ABUTMENT #1
(Northeast Abutment #2 Similar)



- DETOUR PLAN NOTES**
- The signage and sign placements for the Detour Plan shall be as shown and shall be included in the Contractor's Traffic Control Plan for the project. Exact sign dimensions and spacing between signs shall be provided in the Traffic Control Plan and shall be in accordance with the MUTCD and MaineDOT Standard Specifications.
 - The signage shown is the minimum necessary for the Detour Plan portion of the Traffic Control Plan. Additional signage and traffic control devices will be required.
 - The sidewalk nearest the workzone shall be closed to pedestrian traffic as indicated on Plan Sheet 6 - Staged Construction Sections. Signage for sidewalk closure and control devices shall be addressed in the Contractor's Traffic Control Plan.

REFERENCE DRAWINGS

STATE SUPPLIED MATERIALS

FABRICATION NOTES

1) All fabricated parts shall be hot-dipped galvanized in accordance with ASTM A123.
2) Blast clean prior to galvanizing.
3) Stripe coat the bevel surfaces at the field weld locations prior to galvanizing.
Use one coat of epoxy paint, any color.
4) Strip and clean the field weld locations prior to galvanizing.
Use one coat of epoxy paint, any color.
1/2" up both sides and bottom surfaces. Use one coat of epoxy paint, any color.

PARTS & MATERIALS SCHEDULE - STATE SUPPLIED			
QUANTITY	MARK	LENGTH	REMARKS
4	Frame Rail One - FRI	16'-2 1/8"	Gland Seal Frame Rail, GR A36
4	Frame Rail Two - FR2	16'-2 1/8"	Gland Seal Frame Rail, GR A36
4	Frame Rail Three - FR3	1'-0"	Gland Seal Frame Rail, GR A36
4	Frame Rail Four - FR4	1'-0"	Gland Seal Frame Rail, GR A36
64	Hoop Anchor - HAI	2'-4 3/4"	*4 Bar, ASTM A615, Gr 60 - Plain
64	Hoop Anchor - HAI2	1'-3 3/4"	*4 Bar, ASTM A615, Gr 60 - Plain
136	Clip Angle - CA	1 1/2" x 1 1/2"	1/2" Thickness, ASTM A36, Gr 36
2	A2R Seal	35'-0"	Gland Seal
1	DSB 1520	EA	Lubricant Adhesive
Fabricated Assemblies Shall Be Hot-Dipped Galvanized per ASTM A123			

