

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: A.A.S.H.O. Standard Specification for Highway Bridges

DESIGN LOADING

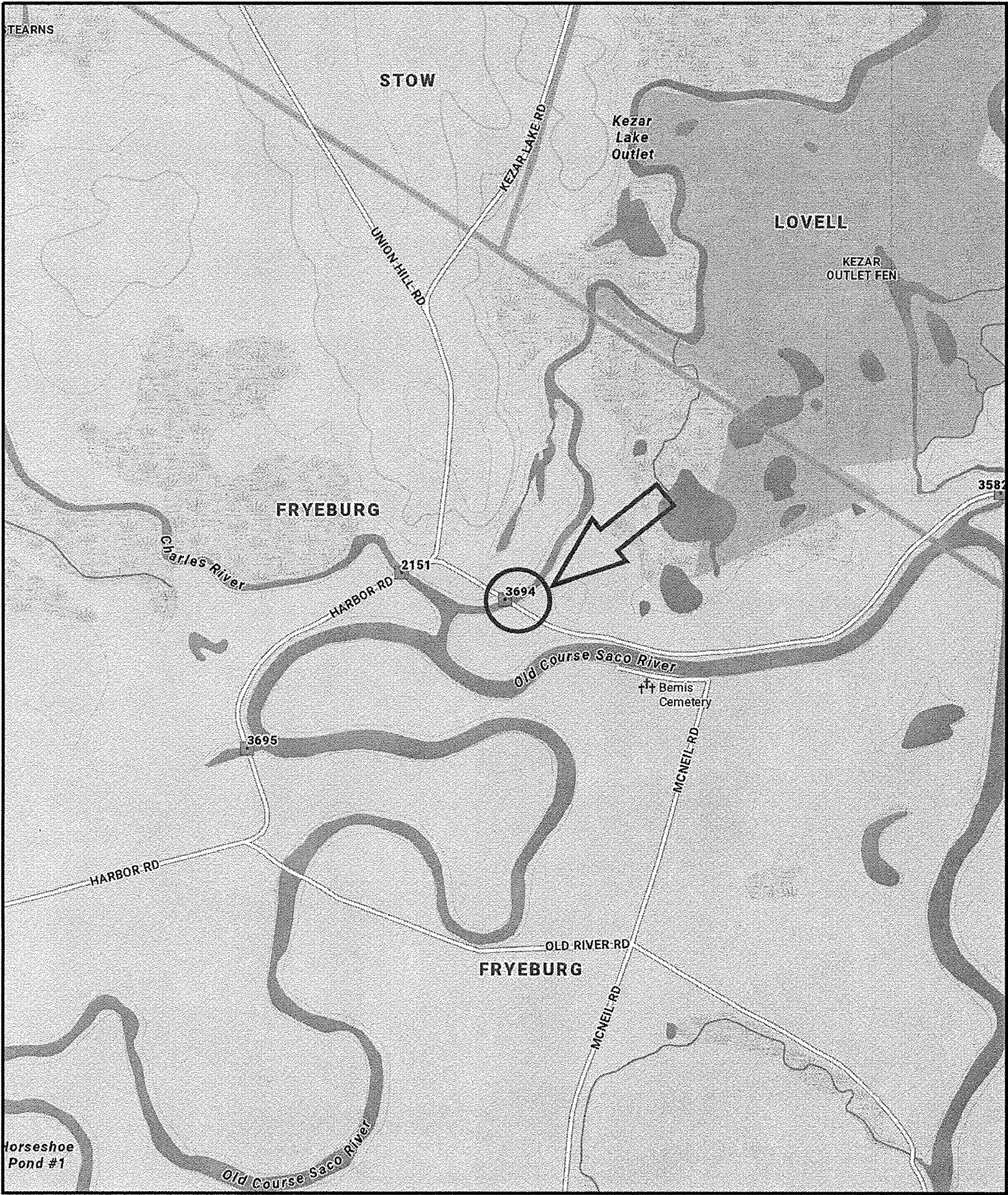
Live Load H-15-44

MATERIALS

Concrete:
Concrete Wearing Surface Class "A"
(Fiber Reinforced, See SP 502)
Concrete Patching:
Patching Material From MaineDOT QPL
Reinforcing:
Plain Reinforcing Steel ASTM A615, Grade 60

BASIC DESIGN STRESSES

Concrete:
Class "A" f'c=4,000 psi
Reinforcing:
ASTM A615, GR 60 f y = 60,000 psi



LOCATION MAP

FRYEBURG
OXFORD COUNTY
KEZAR OUTLET BRIDGE
OVER
KEZAR LAKE OUTLET
HARBOR ROAD
PROJECT NO. 030313.00
PROJECT LENGTH 0.018 mi.
BRIDGE NO. 3694

LIST OF DRAWINGS

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General Plan	3
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Staged Construction Sections	5
Wearing Surface Details	6

UTILITIES

Central Maine Power
Consolidated Communications Inc.
Charter Communications

TRAFFIC DATA

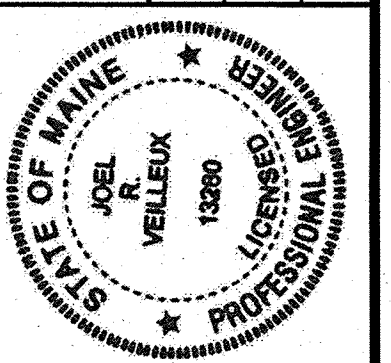
Current (2025) AADT	690
Future (2045) AADT	760
DHV - % of AADT	13%
Design Hour Volume	99
Heavy Trucks (% of AADT)	10%
Heavy Trucks (% of DHV)	15%
Directional Distribution (% of DHV)	59%
18 kip Equivalent P 2.0	21
18 kip Equivalent P 2.5	20
Posted Speed (mph)	40 mph

MAINTENANCE OF TRAFFIC

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

PROJECT LOCATION	Kezar Outlet Bridge (#3694) over Kezar Lake Outlet Lat./Long. 44°07'47.14" N 70°56'42.32" W
PROGRAM AREA	Maintenance & Operations
OUTLINE OF WORK	Bridge Wearing Surface Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>Joel R. Velleux</i>	CHIEF ENGINEER: <i>Joel R. Velleux</i>	2-7-25 2-4-2025



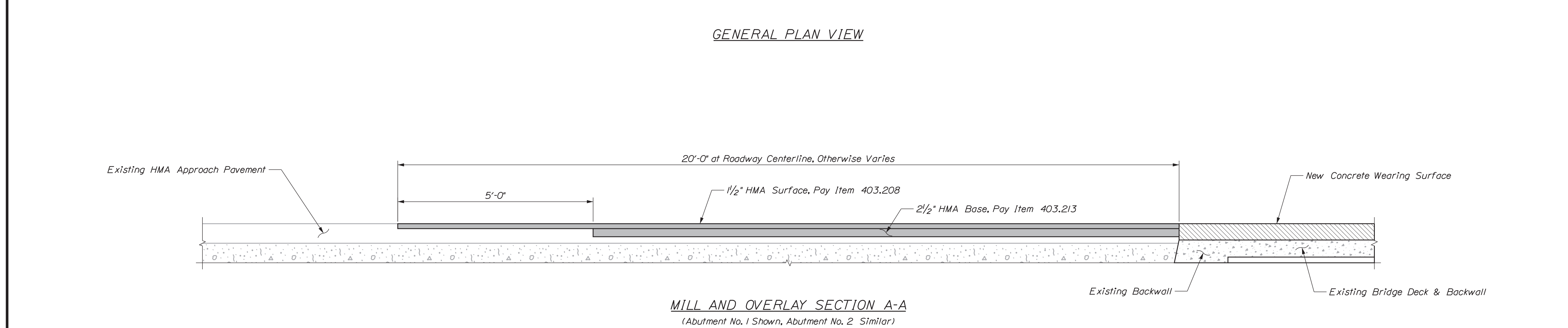
SIGNATURE	P.E. NUMBER	DATE
<i>Joel R. Velleux</i>		

PROJECT INFORMATION	MAINTENANCE & OPERATIONS
PROGRAM	W&O REGION 1
PROJECT MANAGER	JOEL VELLEUX
DESIGNER	
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

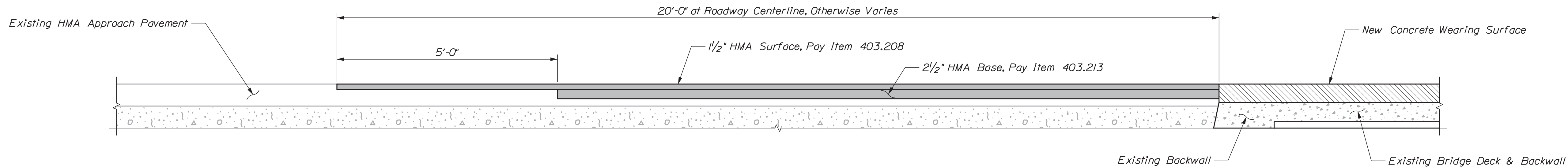
FRYEBURG KEZAR OUTLET BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 6

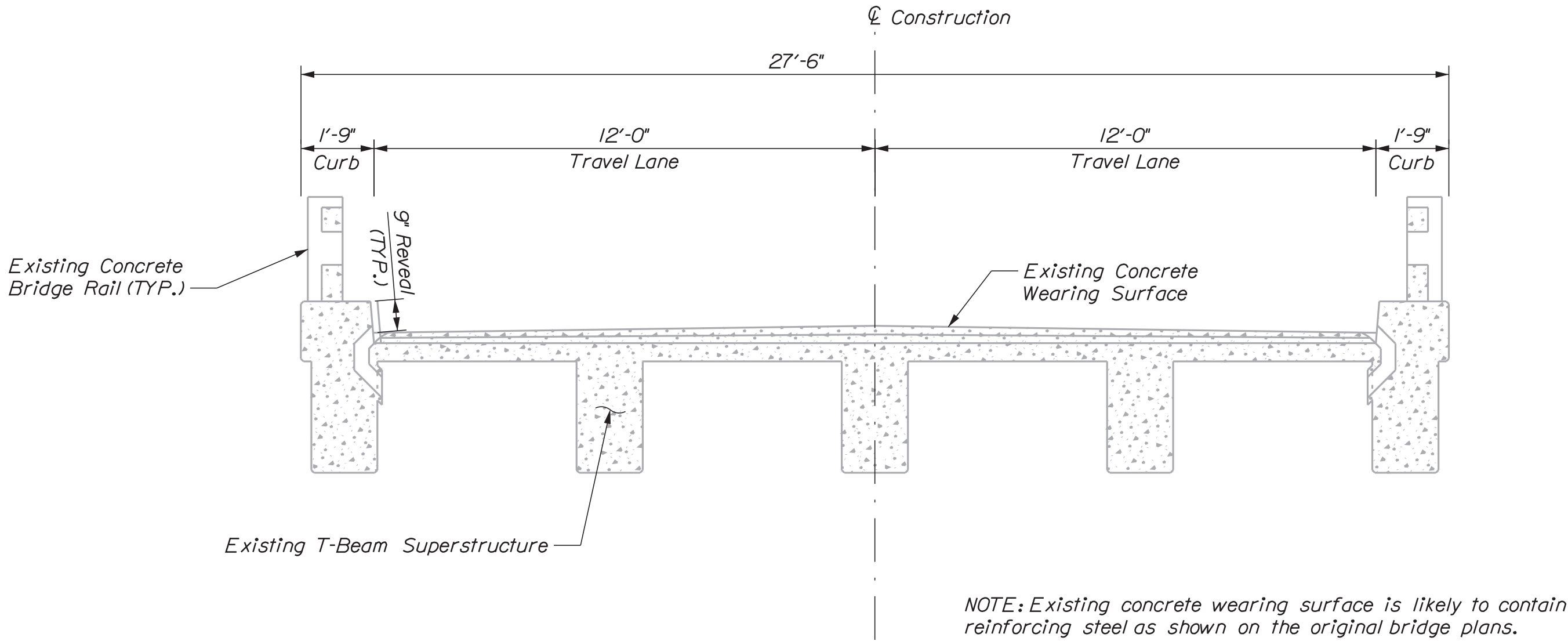
WIN 030313.00



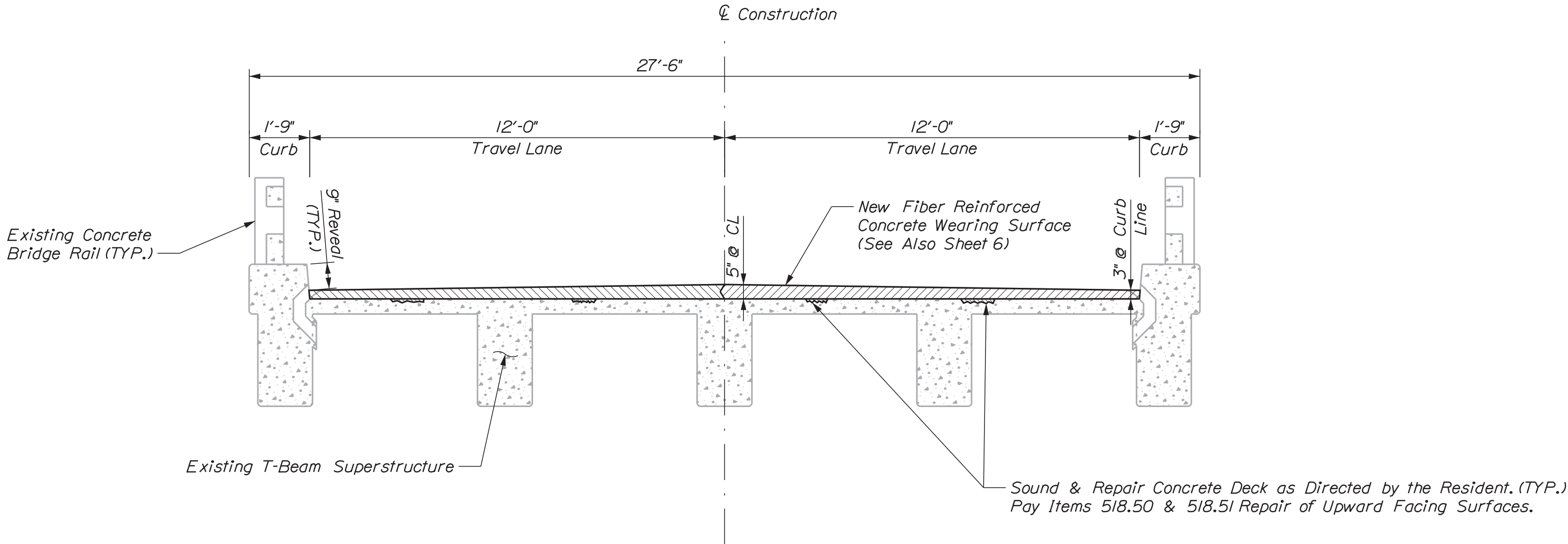
GENERAL PLAN VIEW



MILL AND OVERLAY SECTION A-A
(Abutment No. 1 Shown, Abutment No. 2 Similar)

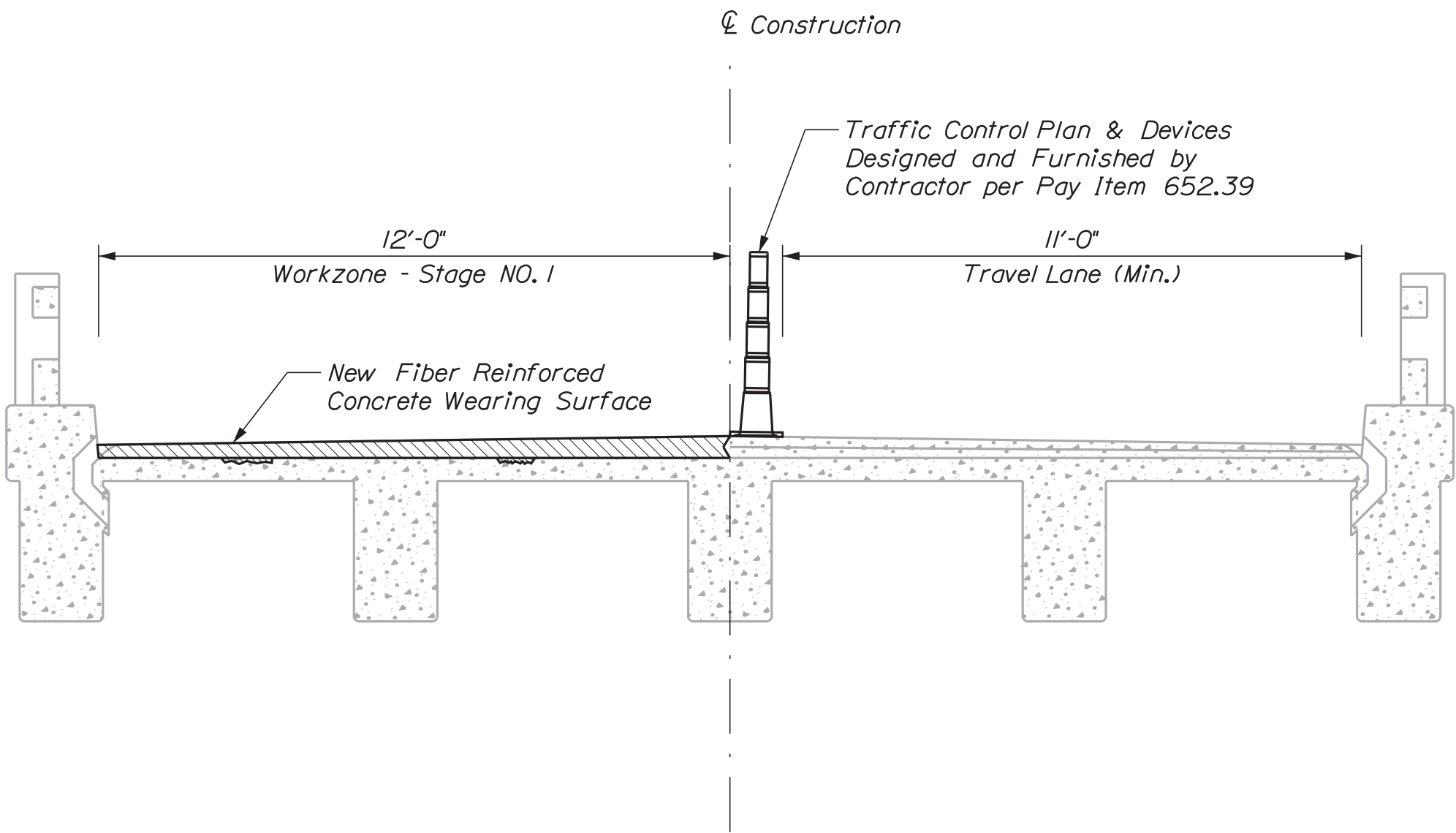


EXISTING BRIDGE TYPICAL SECTION

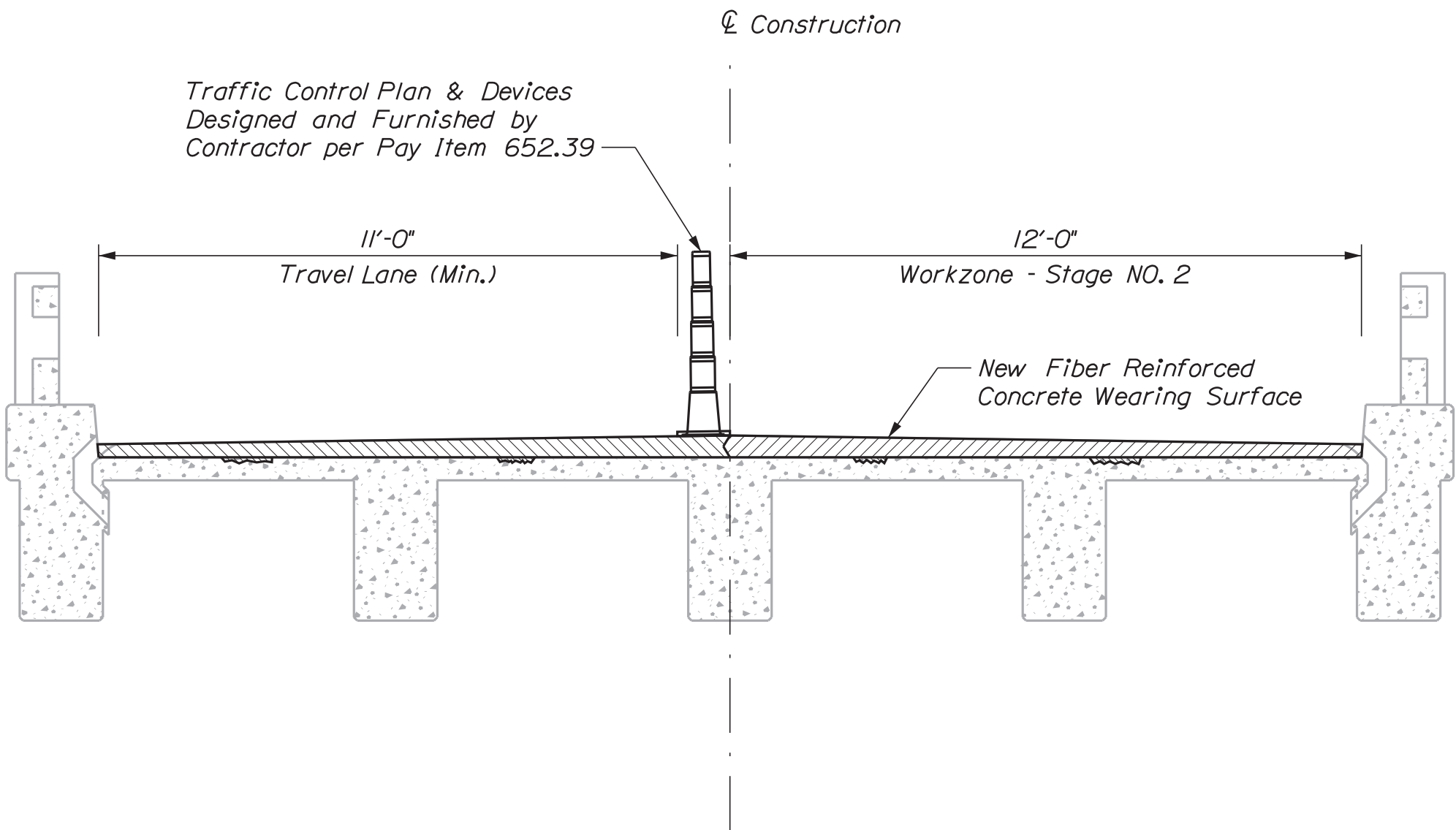


PROPOSED BRIDGE TYPICAL SECTION

<div> <div>STATE OF MAINE</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div>MAINTENANCE & OPERATIONS</div> </div>					<div> <div>1/2025</div> <div>SIGNATURE</div> <div>P.E. NUMBER</div> <div>DATE</div> </div>
	PROJ. MANAGER	M&O REGION 1	BY	DATE	
	DESIGNED-DETAILED	J. VILLEUX	J. VILLEUX	1/2025	
<div> <div>KEZAR OUTLET BRIDGE</div> <div>OVER KEZAR LAKE OUTLET</div> <div>FRYEBURG OXFORD COUNTY</div> <div>TYPICAL SECTIONS</div> </div>	CHECKED-REVIEWED				
	DESIGNED-DETAILED				
	REVISIONS 1				
	REVISIONS 2				
	REVISIONS 3				
<div> <div>SHEET NUMBER</div> <div>4</div> <div>OF 6</div> </div>	REVISIONS 4				
	FIELD CHANGES				
<div> <div>BRIDGE NO. 3694</div> <div>WIN 030313.00</div> <div>BRIDGE PLANS</div> </div>					

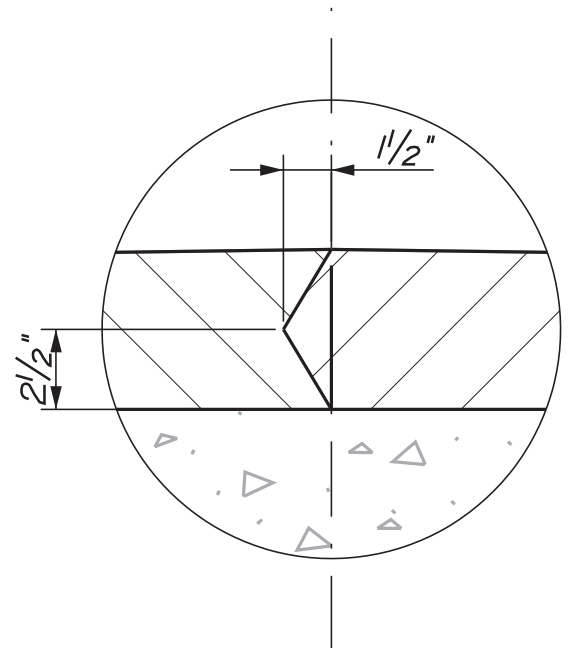


STAGE NO. 1
(Westbound lane workzone shown first, Contractor may stage eastbound lane first at their option)

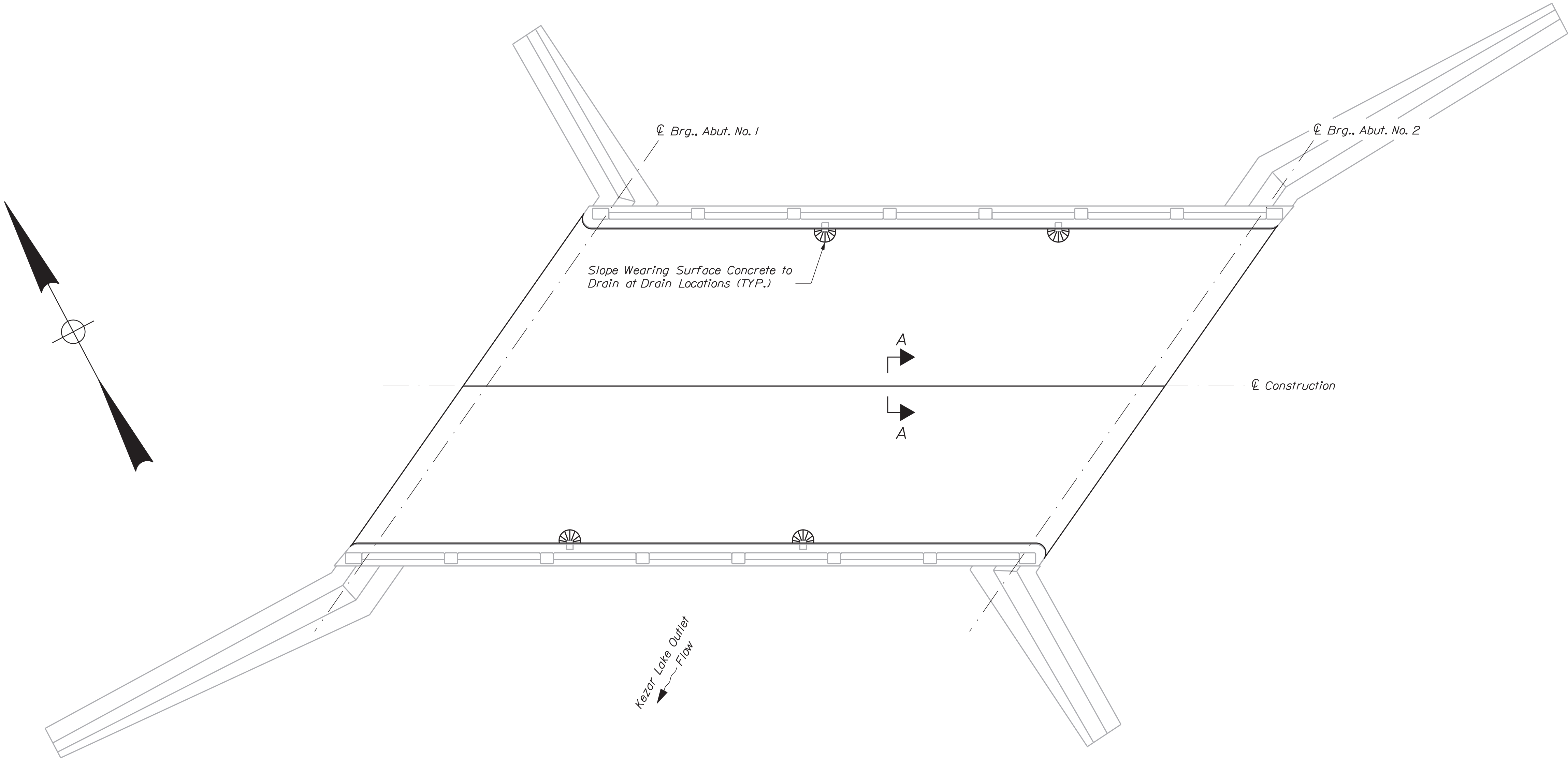


STAGE NO. 2

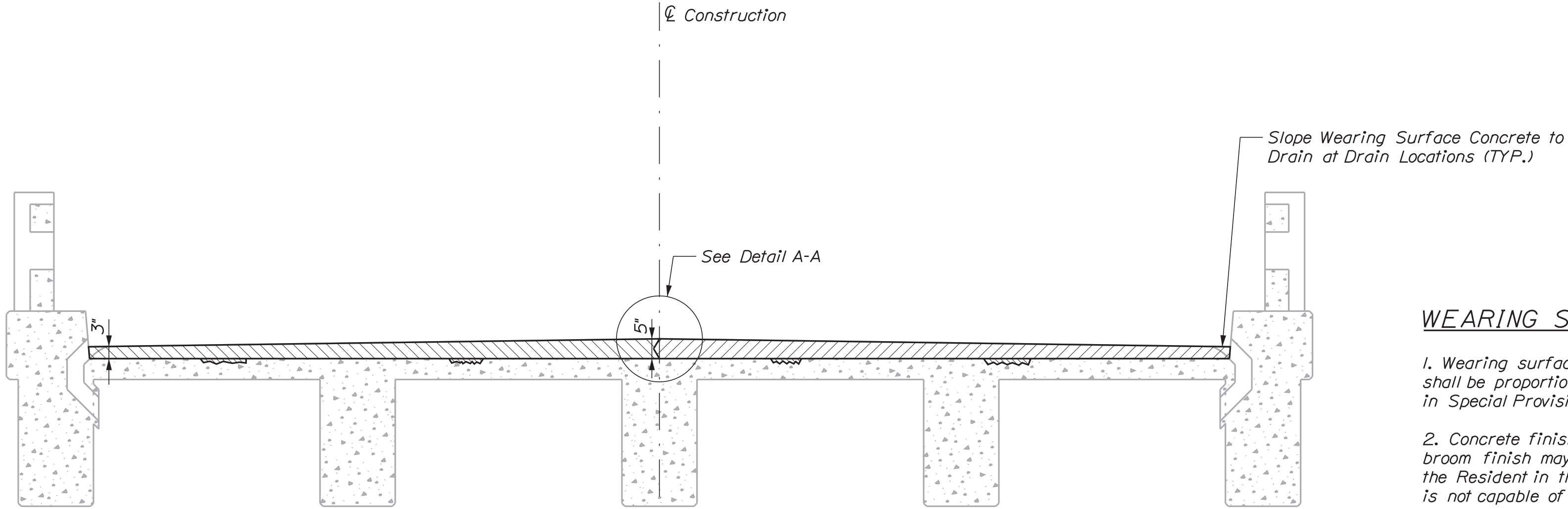
STATE OF MAINE DEPARTMENT OF TRANSPORTATION					PROJ. MANAGER	M&O REGION 1	BY	DATE	SIGNATURE
					DESIGNED-DETAILED	J. VILLEUX	J. VILLEUX	1/2025	
					CHECKED-REVIEWED				
KEZAR OUTLET BRIDGE OVER KEZAR LAKE OUTLET FRYEBURG OXFORD COUNTY				DESIGNS-DETAILED				P.E. NUMBER	
				REVISIONS 1					
				REVISIONS 2					
				REVISIONS 3					
STAGED CONSTRUCTION SECTIONS				REVISIONS 4				DATE	
				FIELD CHANGES					
SHEET NUMBER				BRIDGE NO. 3694					
5				WIN 030313.00					
OF 6				BRIDGE PLANS					



SECTION DETAIL A-A
Construction Joint - Keyway



WEARING SURFACE REINFORCING PLAN



Notes:
1. Wearing surface thickness 3" at curblines & 5" at roadway centerline.

WEARING SURFACE SECTION

WEARING SURFACE NOTES

1. Wearing surface concrete mix design shall be class A and shall be proportioned with macro synthetic fibers as specified in Special Provision 502 - Concrete Wearing Surface.
2. Concrete finish shall be a tined finish. An aggressive broom finish may be substituted at the discretion of the Resident in the event the fiber reinforced concrete is not capable of being tined finished by traditional methods.
3. Upon the full curing period of the concrete wearing surface, protective coating for concrete surfaces shall be applied in accordance with Standard Specification 515.20. Protective coating may be applied in stages to coincide with the staged construction.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
KEZAR OUTLET BRIDGE		KEZAR LAKE OUTLET	
FRYEBURG		OXFORD COUNTY	
SHEET NUMBER		WEARING SURFACE DETAILS	
6		OF 6	
MAINTENANCE & OPERATIONS		BRIDGE NO. 3694	
WIN		030313.00	
BRIDGE PLANS		DATE	
SIGNATURE		DATE	
P.E. NUMBER		DATE	
DATE		DATE	
FIELD CHANGES		DATE	
PROJ. MANAGER		BY	
DESIGN-DETAILED		DATE	
CHECKED-REVIEWED		1/2025	
DESIGN-DETAILED		J. VILLEX	
REVISIONS 1		J. VILLEX	
REVISIONS 2		J. VILLEX	
REVISIONS 3		J. VILLEX	
REVISIONS 4		J. VILLEX	
FIELD CHANGES		J. VILLEX	