

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: A.A.S.H.O. Standard Specification for Highway Bridges, 1961

DESIGN LOADING

Live Load ..... H20-44

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

LIST OF DRAWINGS

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FRYEBURG  
OXFORD COUNTY  
STEVENS BRIDGE  
OVER  
WEEKS BROOK  
W FRYEBURG RD (State Rte 113)  
PROJECT NO. 030294.00  
PROJECT LENGTH 0.018 mi.  
BRIDGE NO. 5697

UTILITIES

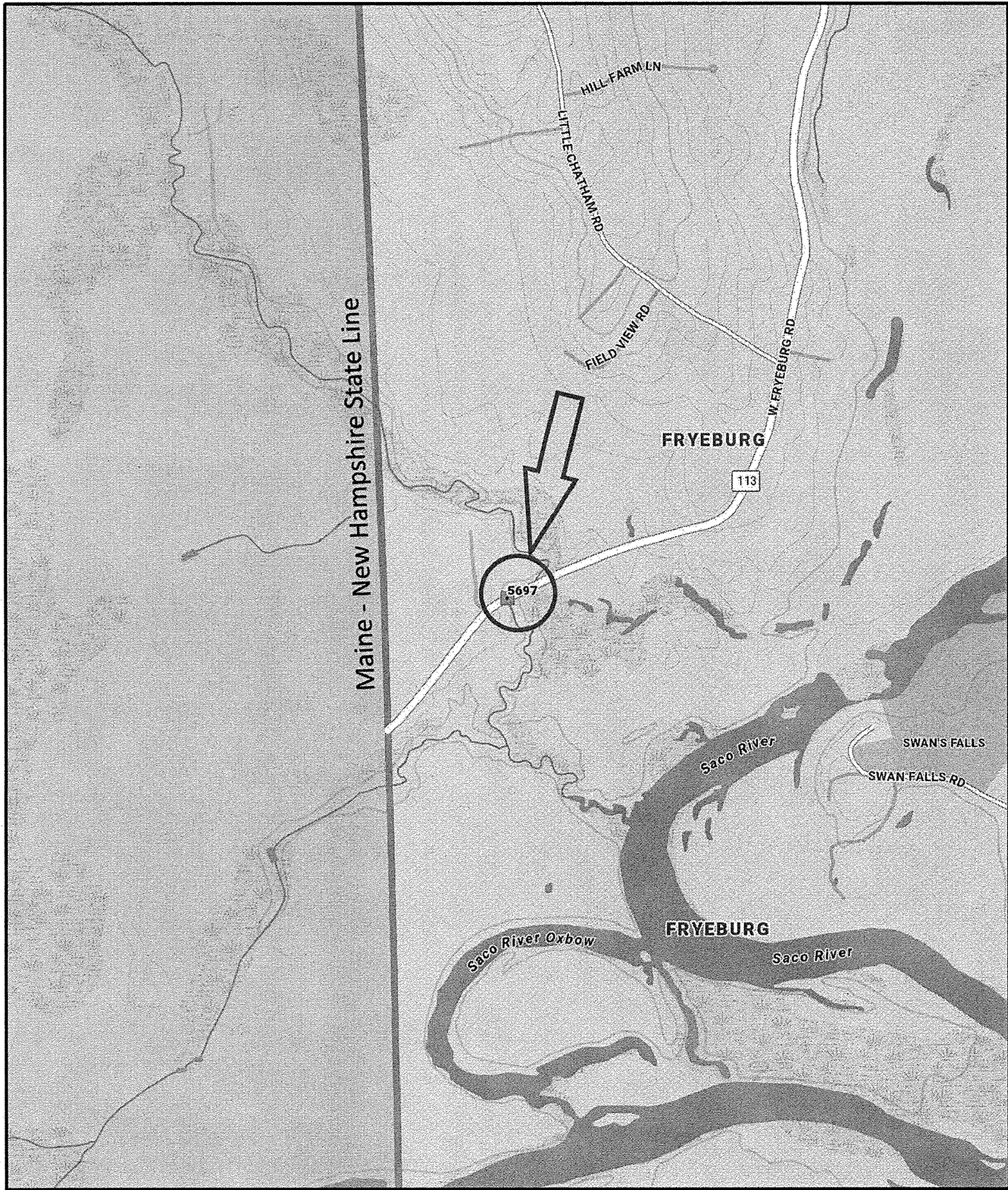
Central Maine Power  
Fryeburg Water Company  
Consolidated Communications Inc.  
Charter/Spectrum

TRAFFIC DATA

Current (2024) AADT .....	1,200
Future (2045) AADT .....	1,320
DHV - % of AADT .....	13%
Design Hour Volume .....	172
Heavy Trucks (% of AADT) .....	8%
Heavy Trucks (% of DHV) .....	4%
Directional Distribution (% of DHV) .....	53%
18 kip Equivalent P 2.0 .....	36
18 kip Equivalent P 2.5 .....	34
Posted Speed (mph) .....	45 mph

MAINTENANCE OF TRAFFIC

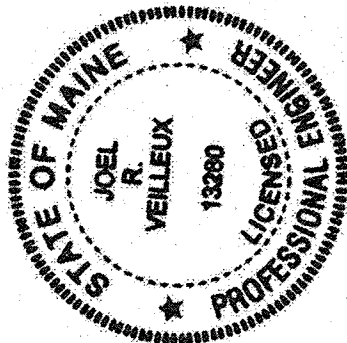
Maintain one 11'-0" wide lane of alternating one-way traffic using temporary traffic signals.



LOCATION MAP

PROJECT LOCATION	Stevens Bridge (#5697) over Mill Brook Lat./Long. 44°02'25.26" N 70°59'39.98" W
PROGRAM AREA	Maintenance & Operations
OUTLINE OF WORK	Bridge Wearing Surface Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER: <i>[Signature]</i>	2-7-25
CHIEF ENGINEER: <i>[Signature]</i>		2-4-2025



<i>[Signature]</i>	SIGNATURE	P.E. NUMBER	DATE
	JOEL R. VELLEUX	13280	

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

FRYEBURG STEVENS BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 6

WIN 030294.00

Date:1/17/2025

Username: Joel.R.Veilleux

Division: BRIDGE

Filename: \5697\001 Title Sheet.dgn



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.202	REMOVING PAVEMENT SURFACE	124	SY
202.30	REMOVING EXISTING CONCRETE WEARING SURFACE (173 SY)	1	LS
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	12	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	16	T
409.15	BITUMINOUS TACK COAT - APPLIED	12	G
502.44	STRUCTURAL CONCRETE WEARING SURFACE ON BRIDGES	15	CY
515.20	PROTECTIVE COATING FOR CONCRETE SURFACES	200	SY
518.50	REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 8 IN.	200	SF
518.51	REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 8 IN.	100	SF
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	290	LF
652.39	WORK ZONE TRAFFIC CONTROL	1	LS
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

- For easements, construction limits, and right of way lines, refer to the Right of Way Map.
- All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- Protective Coating for Concrete Surfaces shall be applied to the following areas: Top of concrete wearing surface, top & face of concrete curbs.
- Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>
- 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.
- 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:
  - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
  - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
  - 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.

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

MAINTENANCE & OPERATIONS

BRIDGE NO. 5697

WIN 030294.00

BRIDGE PLANS

PROJ. MANAGER

M&O REGION 1

DESIGN-DETAILED

CHECKED-REVIEWED

J. VELLEUX

J. VELLEUX

DESIGN-DETAILED

CHECKED-REVIEWED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

DATE

1/2025

BY

J. VELLEUX

SIGNATURE

P.E. NUMBER

DATE

STEVENS BRIDGE

OVER WEEKS BROOK

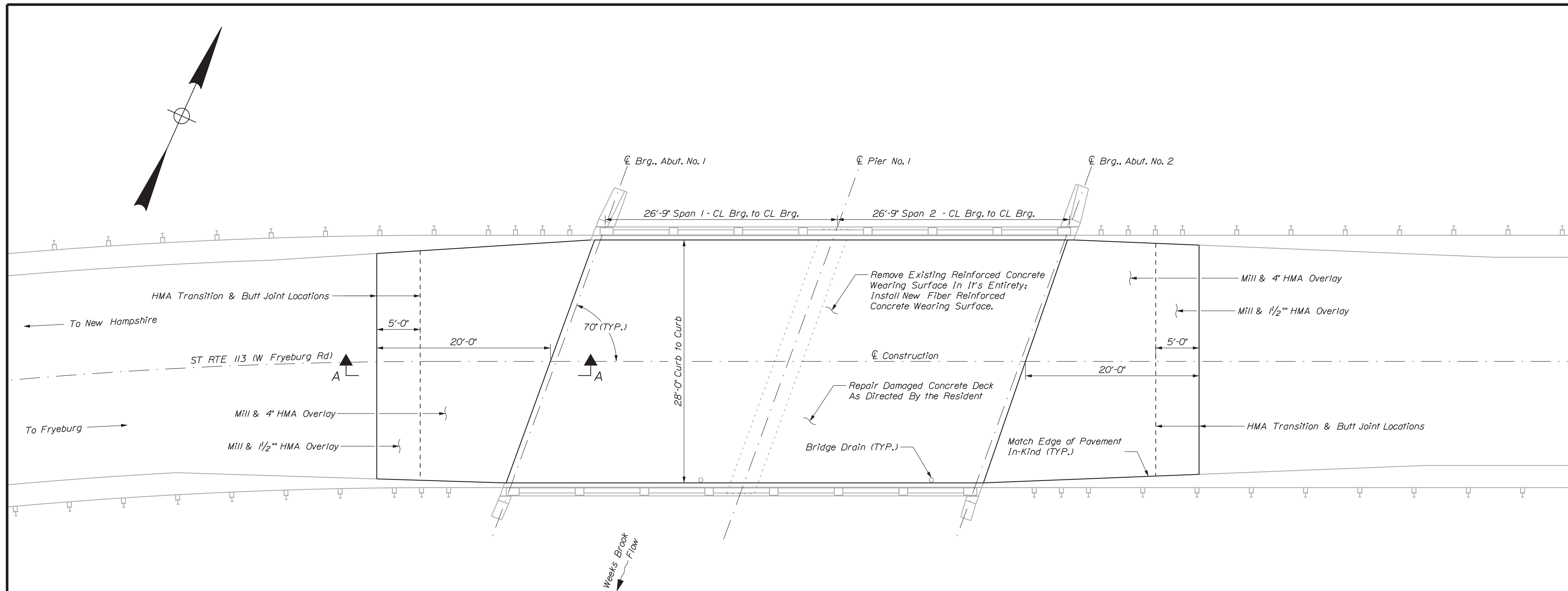
FRYEBURG OXFORD COUNTY

QUANTITIES & NOTES

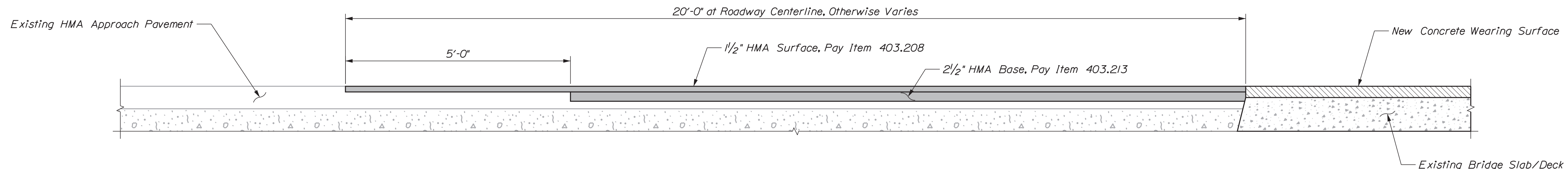
SHEET NUMBER

2

OF 6

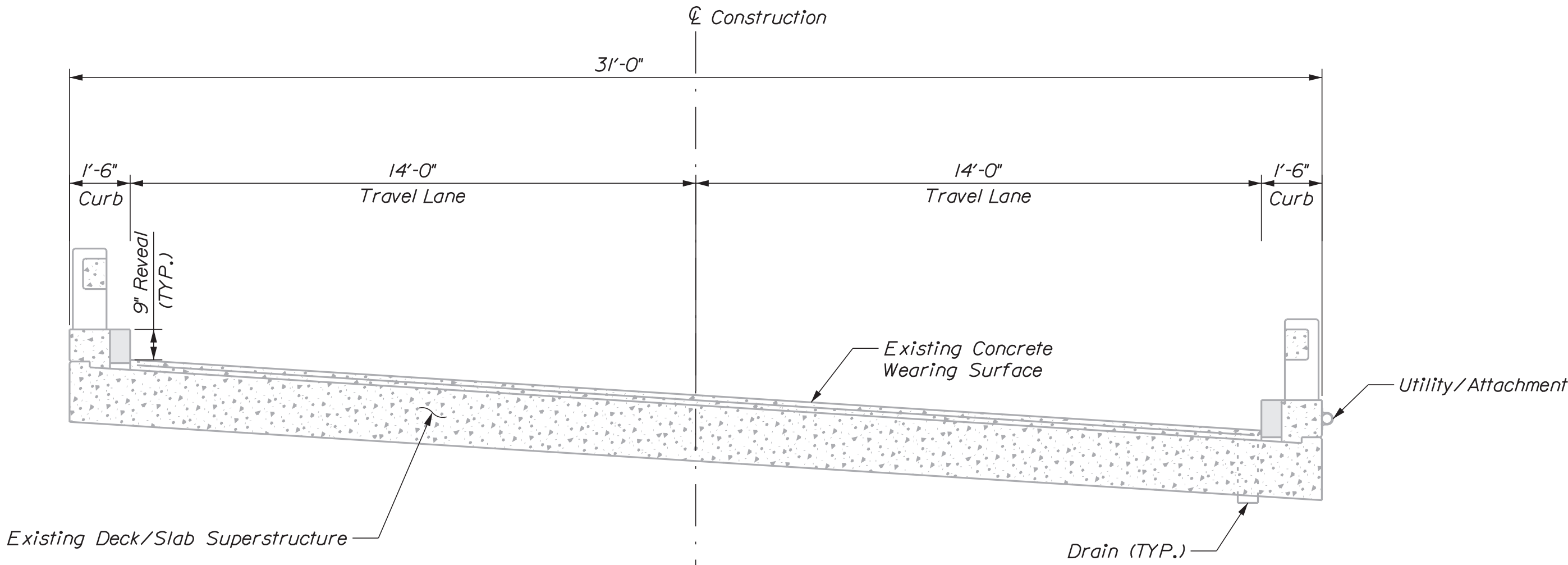


GENERAL PLAN VIEW



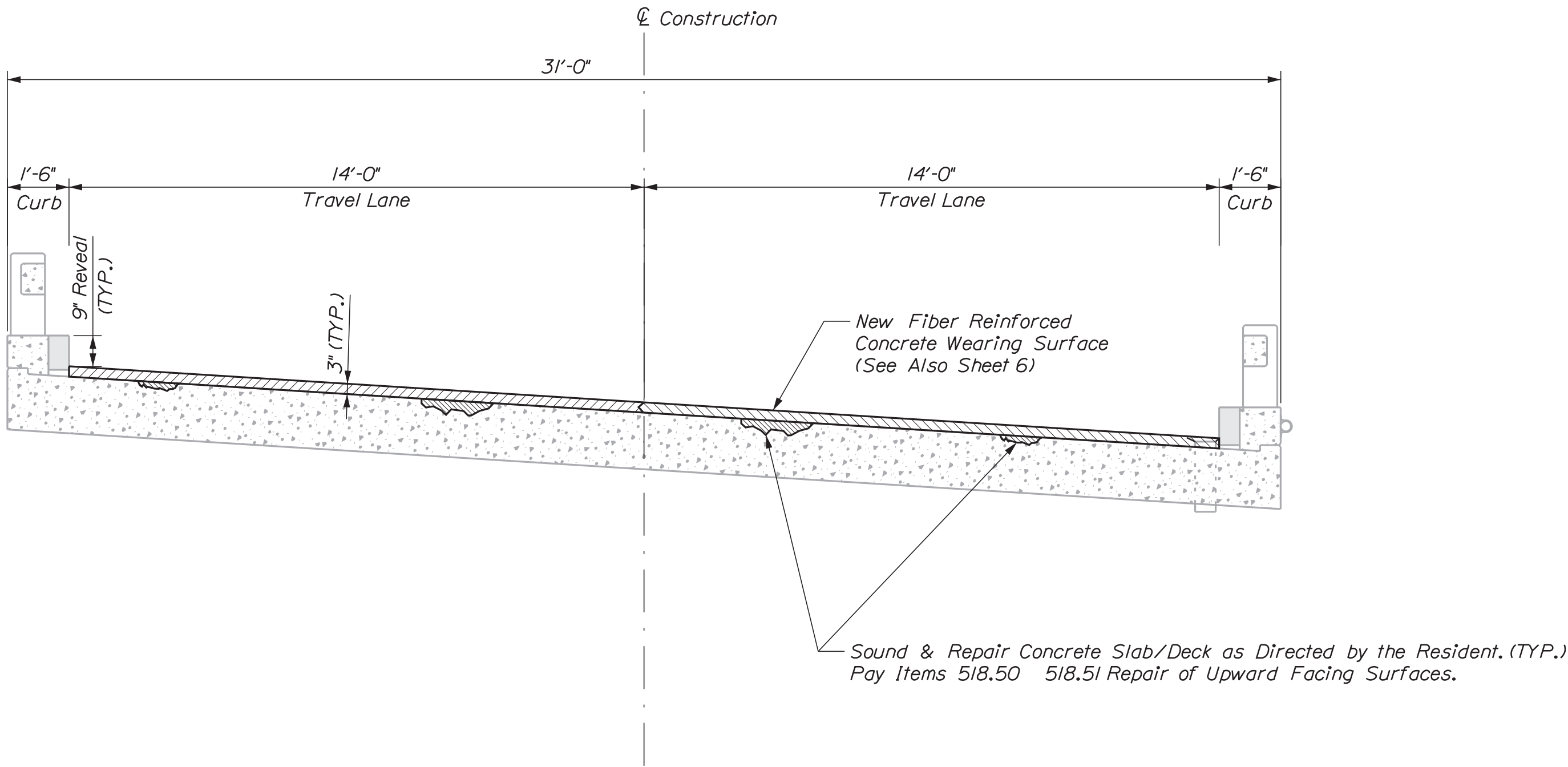
MILL AND OVERLAY SECTION A-A  
(Abutment No. 1 Shown, Abutment No. 2 Similar)

3 OF 6	SHEET NUMBER	STEVENS BRIDGE OVER WEEKS BROOK FRYEBURG				PROJ. MANAGER	M&O REGION	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION  <b>MAINTENANCE &amp; OPERATIONS</b>				
		OXFORD COUNTY       <b>GENERAL PLAN</b>				DESIGN-DETAILED	J. VILLEUX	J. VILLEUX	1/2025					
						CHECKED-REVIEWED								SIGNATURE
						DESIGN2-DETAILED2								
						DESIGN3-DETAILED3								P.E. NUMBER
						REVISIONS 1								
						REVISIONS 2								
				REVISIONS 3										
				REVISIONS 4										
				FIELD CHANGES					DATE					
										BRIDGE NO. 5697	<b>WIN</b> <b>030294.00</b>	BRIDGE PLANS		



NOTE: Existing concrete wearing surface is likely to contain reinforcing steel as shown on the original bridge plans.

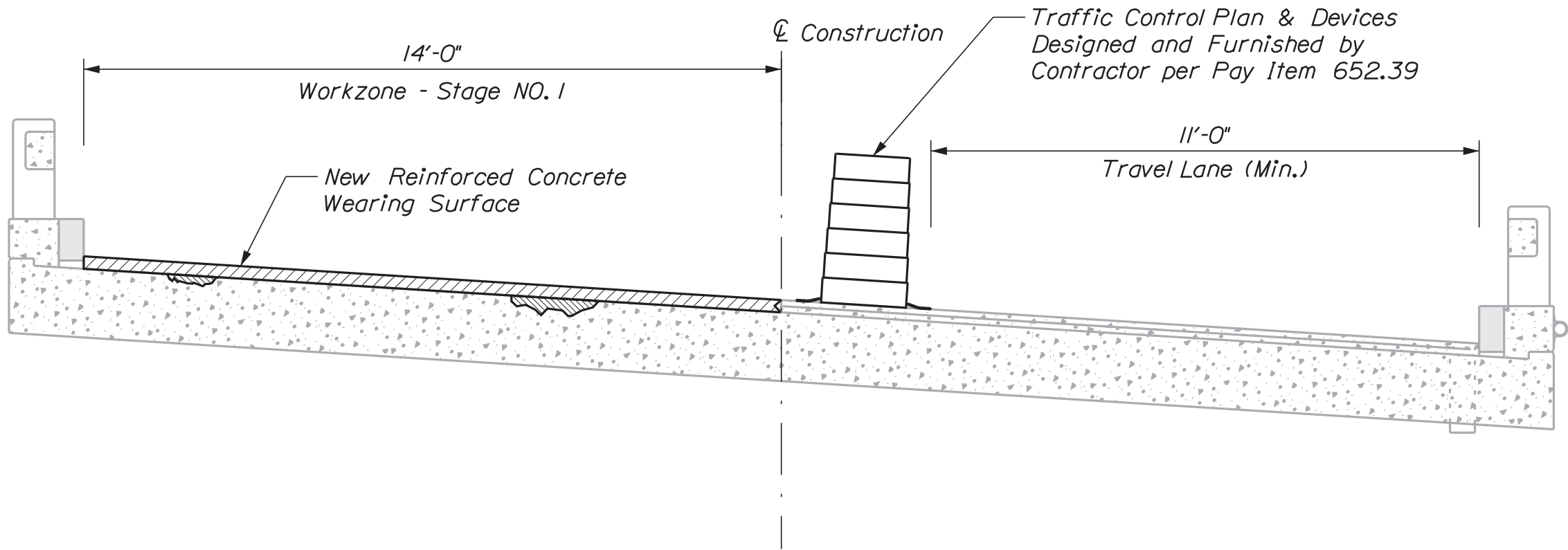
EXISTING BRIDGE TYPICAL SECTION



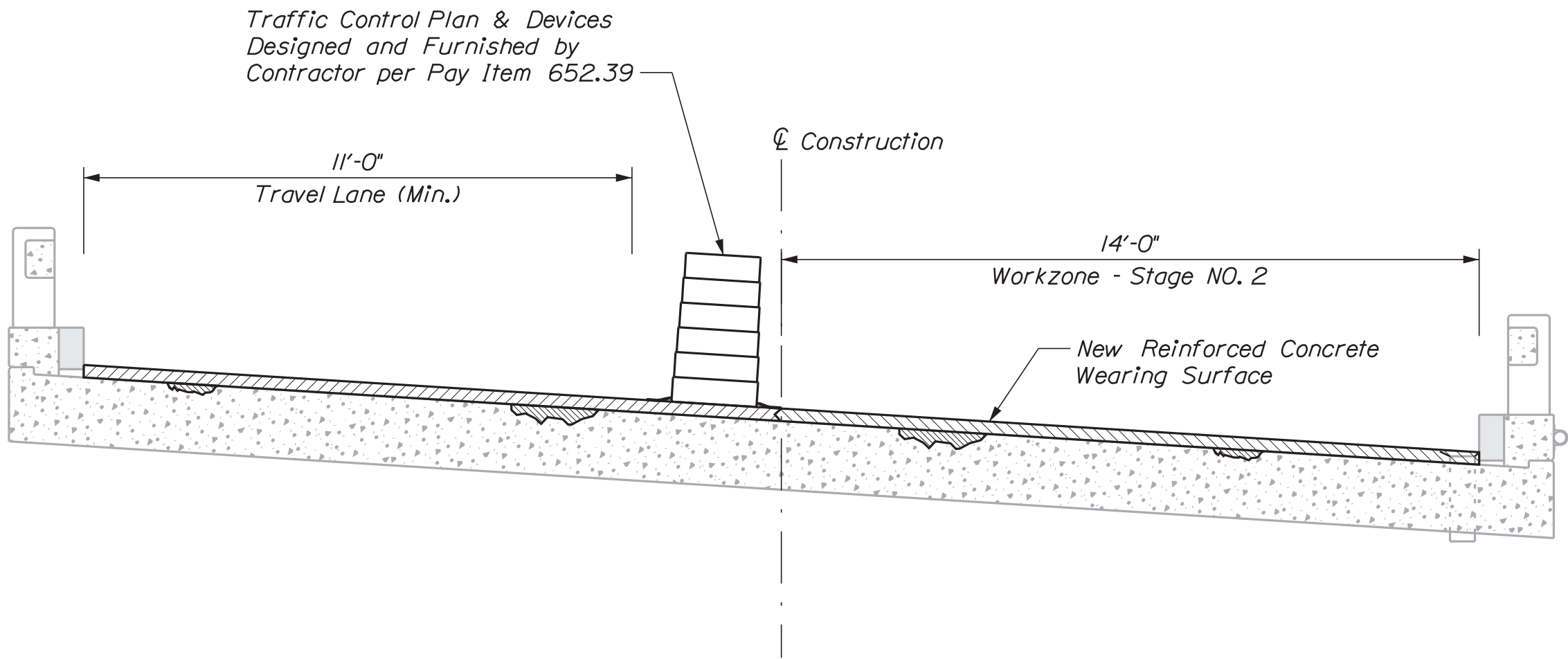
PROPOSED BRIDGE TYPICAL SECTION

SHEET NUMBER			STATE OF MAINE		
4			DEPARTMENT OF TRANSPORTATION		
			MAINTENANCE & OPERATIONS		
			BRIDGE NO. 5697		
OF 6			WIN		
			030294.00		
			BRIDGE PLANS		





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

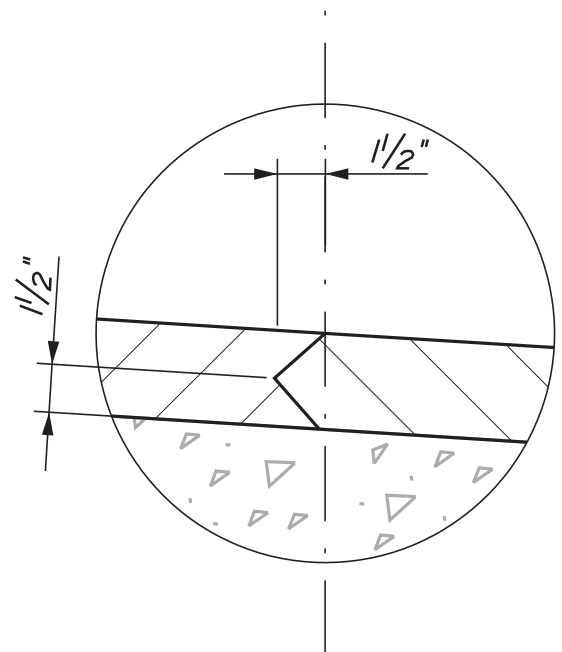


STAGE NO. 2

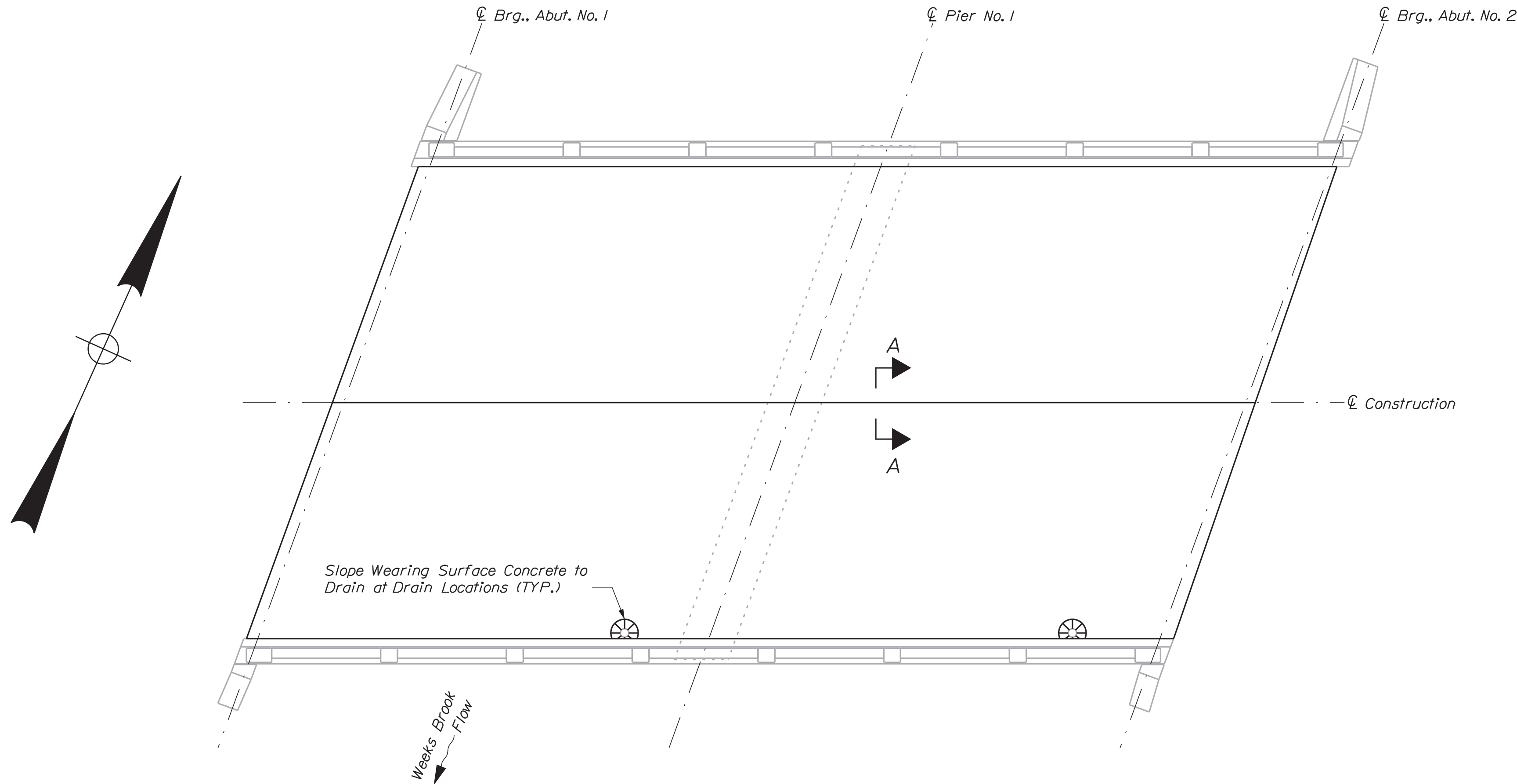
STATE OF MAINE DEPARTMENT OF TRANSPORTATION  MAINTENANCE & OPERATIONS					SIGNATURE  <
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STEVENS BRIDGE  
OVER WEEKS BROOK  
FRYEBURG OXFORD COUNTY

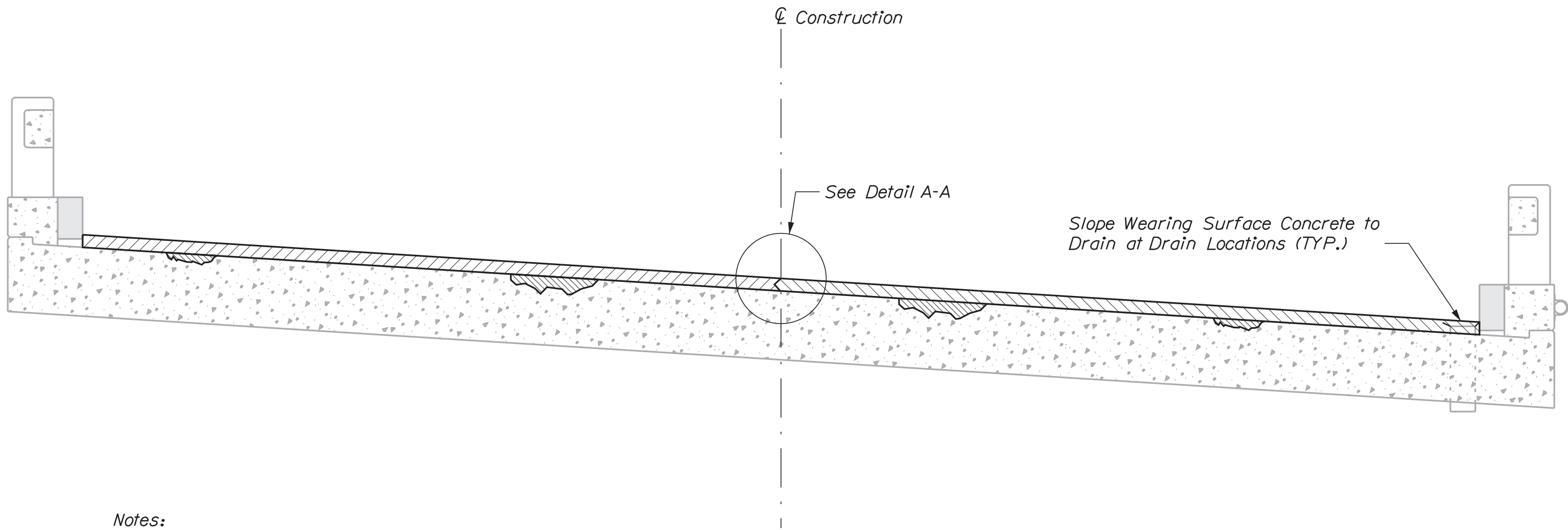
STAGED CONSTRUCTION SECTIONS



SECTION DETAIL A-A  
 Construction Joint - Keyway



WEARING SURFACE REINFORCING PLAN



Notes:  
 1. Wearing surface thickness shall be 3".

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	
MAINTENANCE & OPERATIONS		BRIDGE NO. 5697	
PROJECT NO. 030294.00		BRIDGE PLANS	
PROJ. MANAGER		DATE	
DESIGN-DETAILED		1/2025	
CHECKED-REVIEWED		SIGNATURE	
DESIGN-DETAILED		P.E. NUMBER	
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REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
STEVENS BRIDGE		SHEET NUMBER	
OVER WEEKS BROOK		6	
OXFORD COUNTY		OF 6	
FRYEBOURG			
WEARING SURFACE DETAILS			