

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition 2017 with 2018 Interims.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2016) AADT	4270
Future (2040) AADT	5500
DHV - % of AADT	13%
Design Hour Volume	722
Heavy Trucks (% of AADT)	5%
Heavy Trucks (% of DHV)	4%
Directional Distribution (% of DHV)	56%
18 kip Equivalent P 2.0	139
18 kip Equivalent P 2.5	132
Design Speed (mph)	25

MATERIALS

Concrete: Class "A"

BASIC DESIGN STRESSES

Concrete Class "A" f'c = 4000 psi

LIST OF DRAWINGS

Title Sheet	1
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KITTERY
YORK COUNTY
KITTERY POINT BRIDGE
OVER
KITTERY POINT
ROUTE 103\ WHIPPLE ROAD
FEDERAL PROJECT NO. 2362100
PROJECT LENGTH 0.055 mi.
BRIDGE NO. 3013

UTILITIES

Kittery Water District
Central Maine Power
Consolidated Communications Co.
Comcast

MAINTENANCE OF TRAFFIC

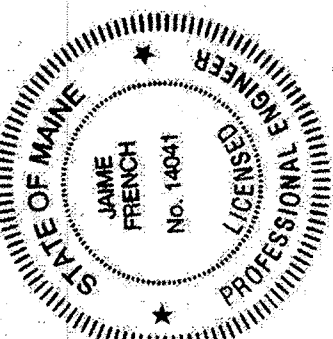
Maintain one lane of alternating one - way traffic using temporary traffic signals.

PROJECT LOCATION	Kittery Point Bridge (#3013) Over Kittery Point, Kittery , ME Located 1.1 Miles Easterly of Route 236. Lat./Long. 43°04'59.7" N / 70°43'07.2" W
PROGRAM AREA	BRIDGE
OUTLINE OF WORK	Wearing Surface Replacement With Deck Repairs, and Approximately 246' of Approach Work

WIN 023621.00

2362100

KITTERY
KITTERY POINT BRIDGE



SIGNATURE
JAMES FRENCH
P.E. NUMBER
147041
DATE
10-9-2019

PROJECT INFORMATION	BRIDGE
PROGRAM	M. KERSEGEN
PROJECT MANAGER	S. BEAUMONT
DESIGNER	FUSS AND O'NEILL
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER: [Signature]
CHIEF ENGINEER: [Signature]

SHEET NUMBER

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OF 5

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.202	REMOVING PAVEMENT SURFACE	1,900	SY
403.208	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE	160	T
403.209	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	5	T
403.213	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)	150	T
409.15	BITUMINOUS TACK COAT, APPLIED	100	G
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (1015 SY)	1	LS
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (440 SY)	1	LS
518.50	REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 8 INCHES	460	SF
518.51	REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 8 INCHES	190	SF
518.52	REPAIR OF UPWARD FACING SURFACES >= 8 INCHES	1	CY
526.301	TEMPORARY CONCRETE BARRIER, TYPE 1 (600 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	2	UN
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	2,450	LF
627.77	REMOVING EXISTING PAVEMENT MARKING	1,100	SF
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	3,300	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	5	HR
631.172	TRUCK-LARGE (INCLUDING OPERATOR)	5	HR
639.19	FIELD OFFICE, TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADES	4	EA
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (120 CD)	1	LS
652.38	FLAGGERS	50	HR
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

1. Protective Coating for Concrete Surfaces shall be applied to the following areas:

All exposed surfaces of concrete curbs and sidewalks,
Fascias down to the drip notch,
All exposed surfaces of Concrete Transition Barriers.

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. 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.

5. Temporary pavement ramps will not be paid for separately, but considered incidental to related contract items.

CONSTRUCTION STAGING NOTES

1. All traffic control shall be in accordance with the Manual for Uniform Traffic Control Devices for Streets and Highways, USDOT, FHWA, Latest Edition.

2. The stage 2 traffic control setup shall be maintained during sidewalk transition construction to accommodate pedestrian access through the work area.

SUPERSTRUCTURE NOTES

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

2. The Contractor shall take care not to damage the existing concrete or reinforcing steel to remain. Any damaged concrete or reinforcing steel shall be repaired or replaced as directed by the Resident at no expense to the Department.

3. Traffic shall not be permitted on exposed structural deck.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2362100

WIN 023621.00

BRIDGE NO. 3013
BRIDGE PLANS

PROJ. MANAGER
M. Kersbergen

CHECKED-REVIEWED
A. GRALDI

DESIGN-DETAILED
L. GREER

DESIGN-DETAILED
L. GREER

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

DATE
9/9

BY
M.W. SMITH

DATE
9/9

DATE
9/9

DATE
9/9

DATE
9/9

DATE
9/9

DATE
9/9

DATE
9/9

SIGNATURE

P.E. NUMBER

DATE

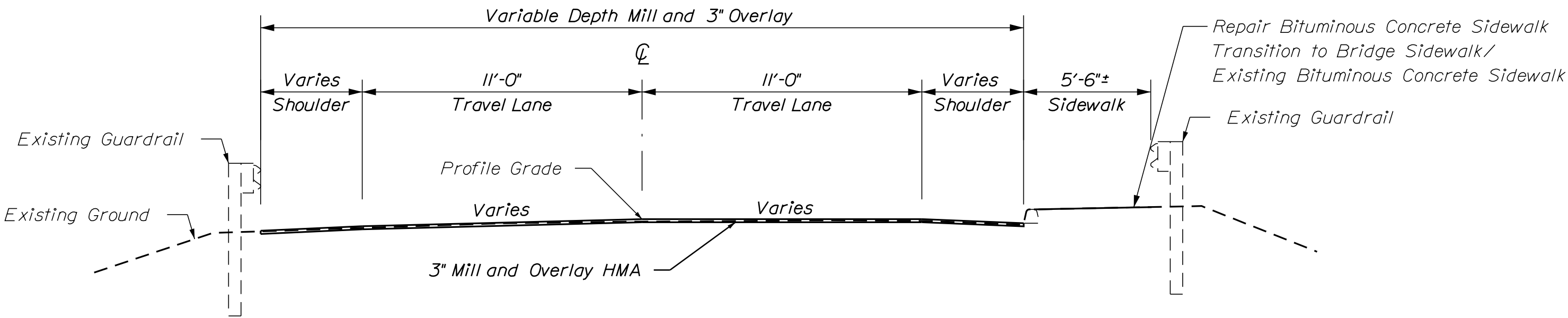
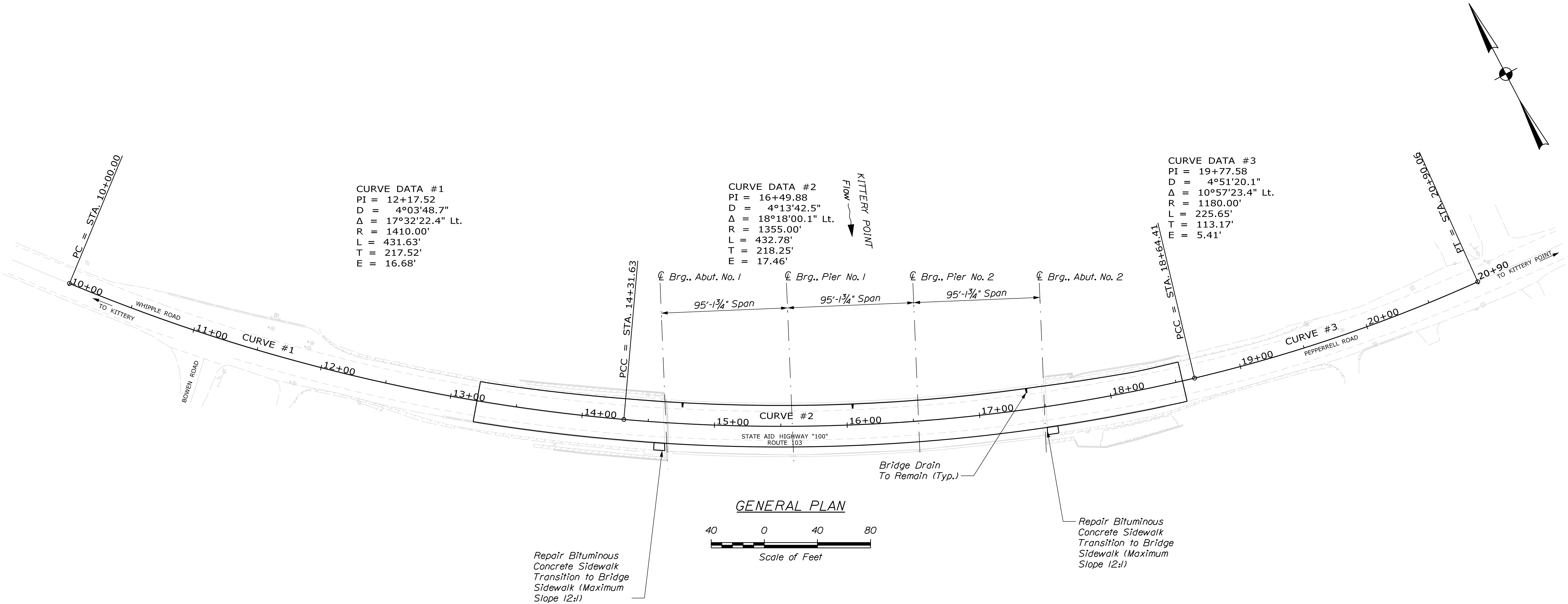
KITTERY POINT BRIDGE
KITTERY POINT
YORK COUNTY

ESTIMATED QUANTITIES
& NOTES

SHEET NUMBER

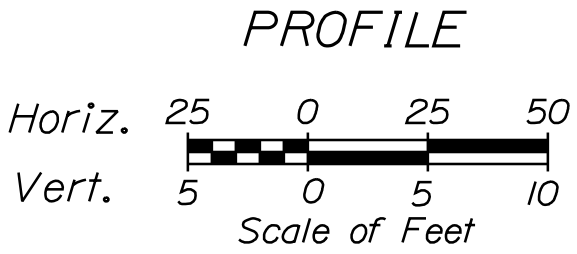
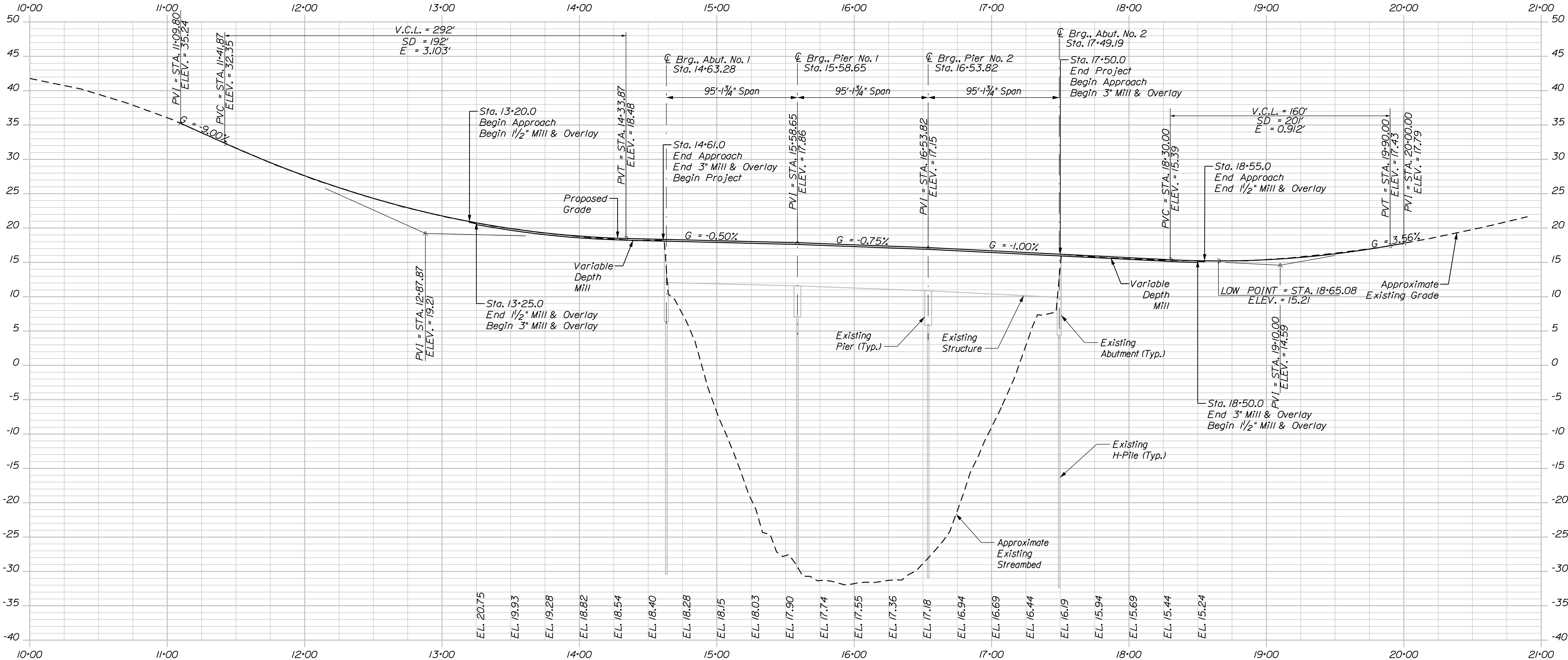
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TYPICAL APPROACH SECTION

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
KITTERY POINT BRIDGE		2362100	
KITTERY POINT		WIN	
KITTERY		023621.00	
YORK COUNTY		BRIDGE NO. 3013	
GENERAL PLAN & TYP. APPROACH SECTION		BRIDGE PLANS	
SHEET NUMBER		3	
OF 5			



LT. TRAVELWAY	STATION	RT. TRAVELWAY
Match Existing(-2.62±)	START	Match Existing(4.13±)
-2.40	13+80	2.40
	TO	
-2.40	17+65	2.40
-3.00	17+75	2.43
Match Existing(-4.50±)	18+00	Match Existing(2.51±)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

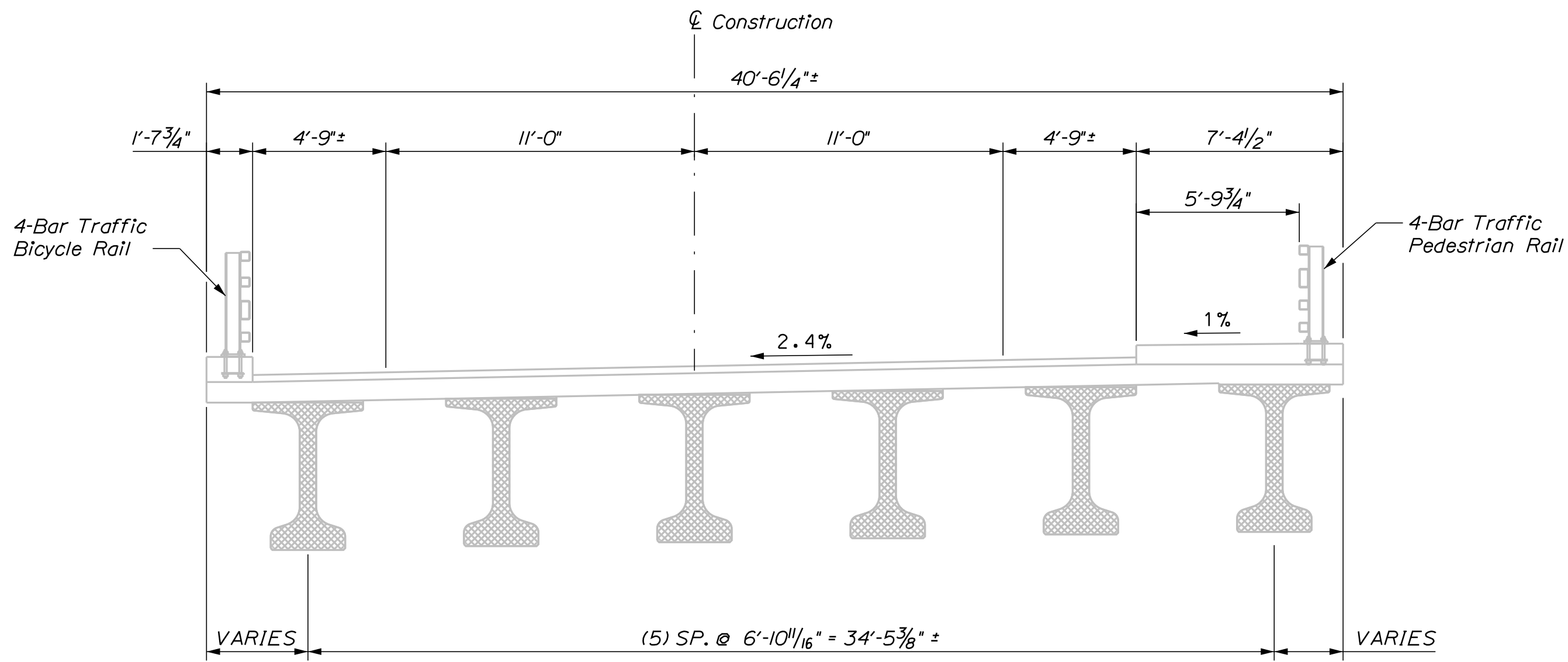
2362100

BRIDGE NO. 3013
WIN 023621.00
BRIDGE PLANS

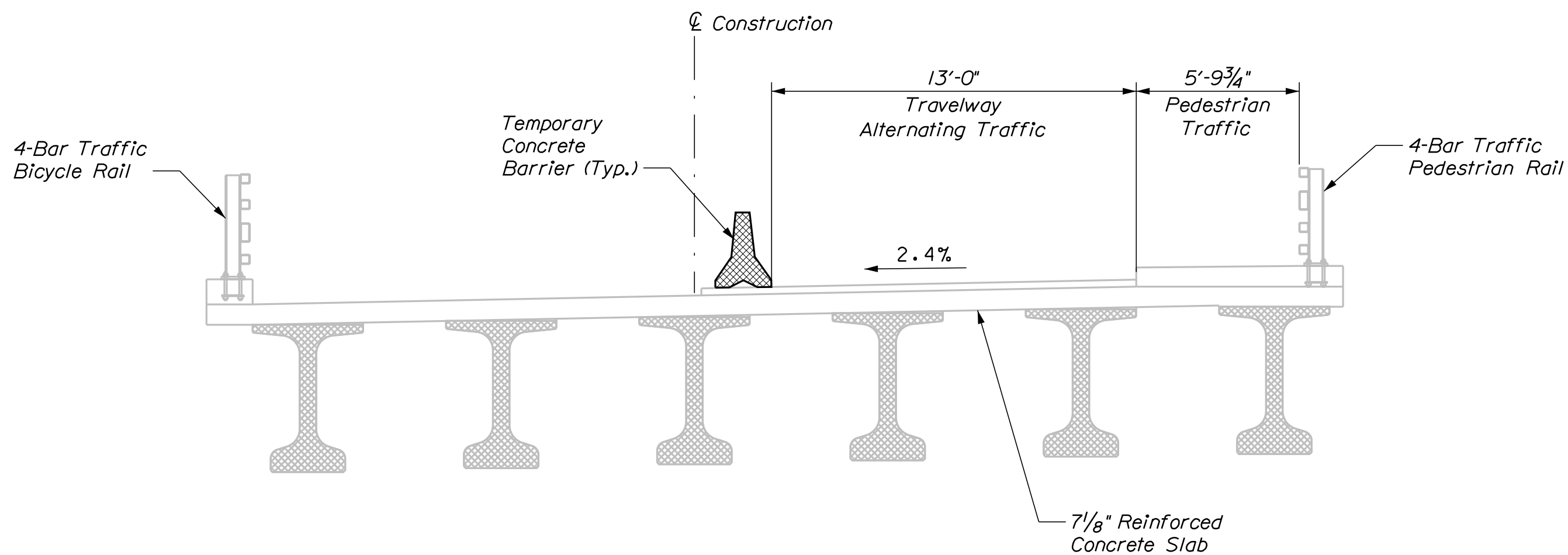
KITTERY POINT BRIDGE
KITTERY POINT
KITTERY YORK COUNTY

SHEET NUMBER
4
OF 5

PROJ. MANAGER	M. KERSBERGEN	BY	M.C. SMITH	DATE	9/9
CHECKED-REVIEWED	E. MALONEY			SIGNATURE	
DESIGN-DETAILED	S. BEAUMONT			P.E. NUMBER	
REVISIONS 1				DATE	
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

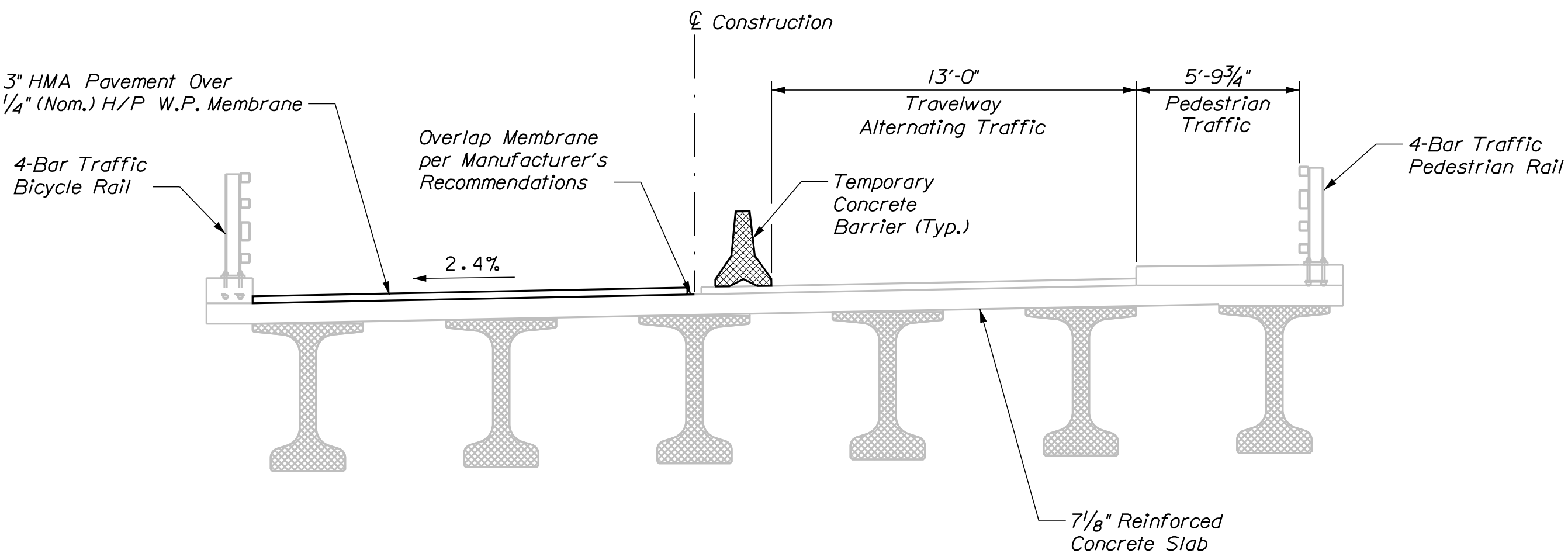


EXISTING CONDITION



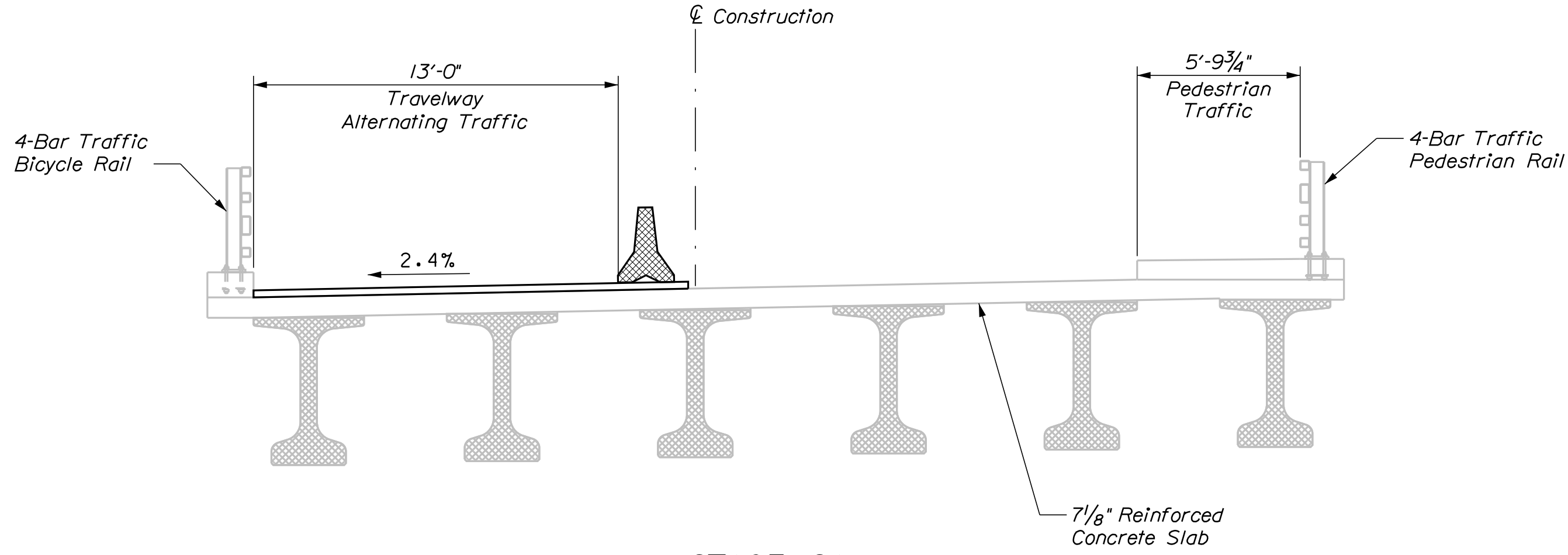
STAGE 1A

Remove Existing Pavement and Areas of Concrete to be Rehabilitated



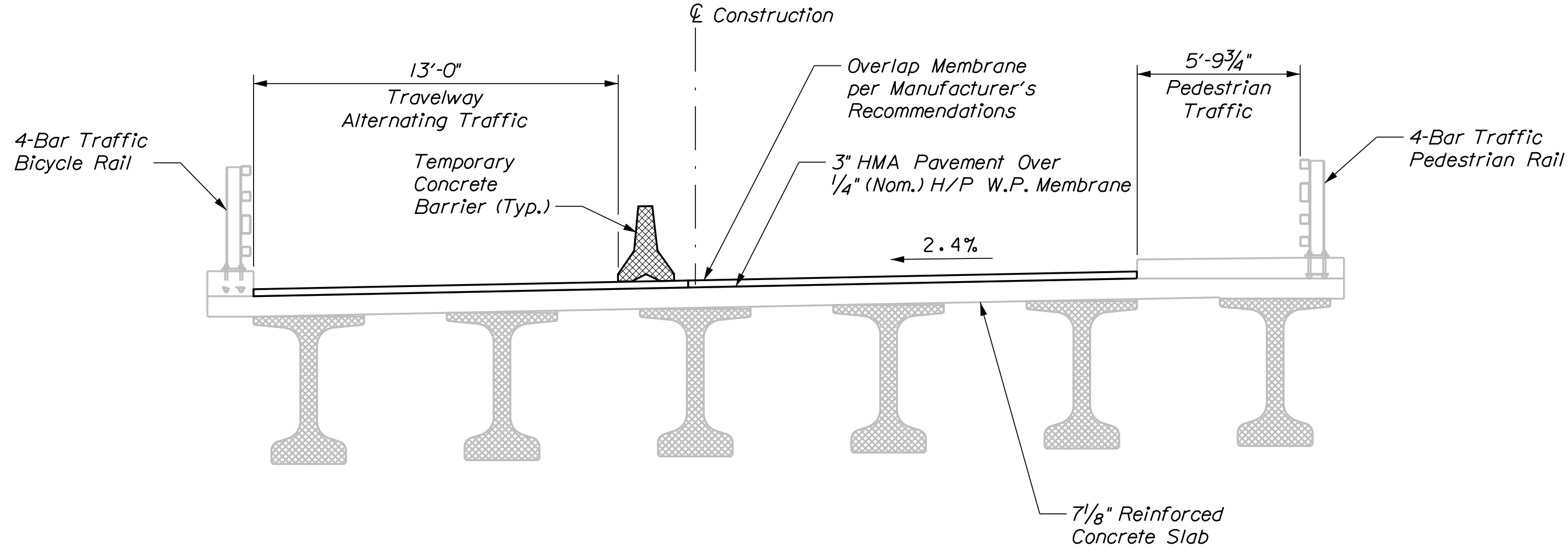
STAGE 1B

Place New Concrete in Areas of Rehabilitation, High Performance Waterproofing Membrane, and HMA Pavement



STAGE 2A

Remove Existing Pavement and Areas of Concrete To Be Rehabilitated



STAGE 2B

Place New Concrete In Areas of Rehabilitation, High Performance Waterproofing Membrane, and HMA Pavement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
	2362100	
	WIN	023621.00
BRIDGE NO. 3013		
BRIDGE PLANS		

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
M. KERSBERGEN	M.W. SMITH	9/9			
CHECKED-REVIEWED					
DESIGNS-DETAILED					
DESIGNS-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

KITTERY POINT BRIDGE		YORK COUNTY
KITTERY POINT		
KITTERY		
STAGE CONSTRUCTION		SECTIONS

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