

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



KINGFIELD
FRANKLIN COUNTY
CENTENNIAL BRIDGE
OVER
CARRABASSET RIVER
LEXINGTON ROAD\ROUTE 16
FEDERAL PROJECT# 2304800
WIN 023048.00
PROJECT LENGTH 0.114 mi.
BRIDGE NO. 5852

SPECIFICATIONS

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

TRAFFIC DATA

Current (2019) AADT	2790
Future (2039) AADT	3350
DHV - % of AADT	11
Design Hour Volume	369
Heavy Trucks (% of AADT)	17
Heavy Trucks (% of DHV)	9
Directional Distribution (% of DHV)	64
18 kip Equivalent P 2.0	385
18 kip Equivalent P 2.5	366
Design Speed (mph)	25

MATERIALS

Concrete:	
Repairs	Class "A"
Reinforcing Steel	ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete	f 'c = 4000 psi
Reinforcing Steel	f y = 60,000 psi

LIST OF DRAWINGS

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Local Detour Plan	10

UTILITIES

Central Maine Power Company
Charter Communications
Somerset Telephone Company

MAINTENANCE OF TRAFFIC

Maintain one lane of alternating one - way traffic using traffic signals.
Detour trucks around the bridge.

PROJECT LOCATION	Kingfield village just north of Maine Street/Route 27 Lat./Long. 44°57'57.34" N 70°09'15.9" W
PROGRAM AREA	Bridge
OUTLINE OF WORK	Concrete repair - north abutment at-grade short approach slab Wearing surface replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		3/20/19
CHIEF ENGINEER: <i>[Signature]</i>		3-20-19

<i>Michael Wright</i>	SIGNATURE	P.E. NUMBER	DATE
	8089	315/2019	

PROJECT INFORMATION	BRIDGE
PROGRAM	MIKE WIGHT
PROJECT MANAGER	MARK GRAY
DESIGNER	
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

KINGFIELD CENTENNIAL BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 10

[illegible]

GENERAL CONSTRUCTION NOTES

1. During construction, the road will be closed to truck traffic for a time period specified in the Special Provisions.

2. All utility facilities shall be adjusted by the respective utilities unless otherwise noted. No utility impacts are anticipated.

3. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

4. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

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

*All exposed surfaces of concrete curbs and sidewalks,
Concrete guardrail,*

6. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>.

7. 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.

8. The bridge deck evaluation report of the existing bridge may be accessed at the MaineDOT web address. The report contains visual inspection information and deck core data of the bridge. There is no assurance that the information or data is a true representation of the conditions of the entire deck.

9. 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.

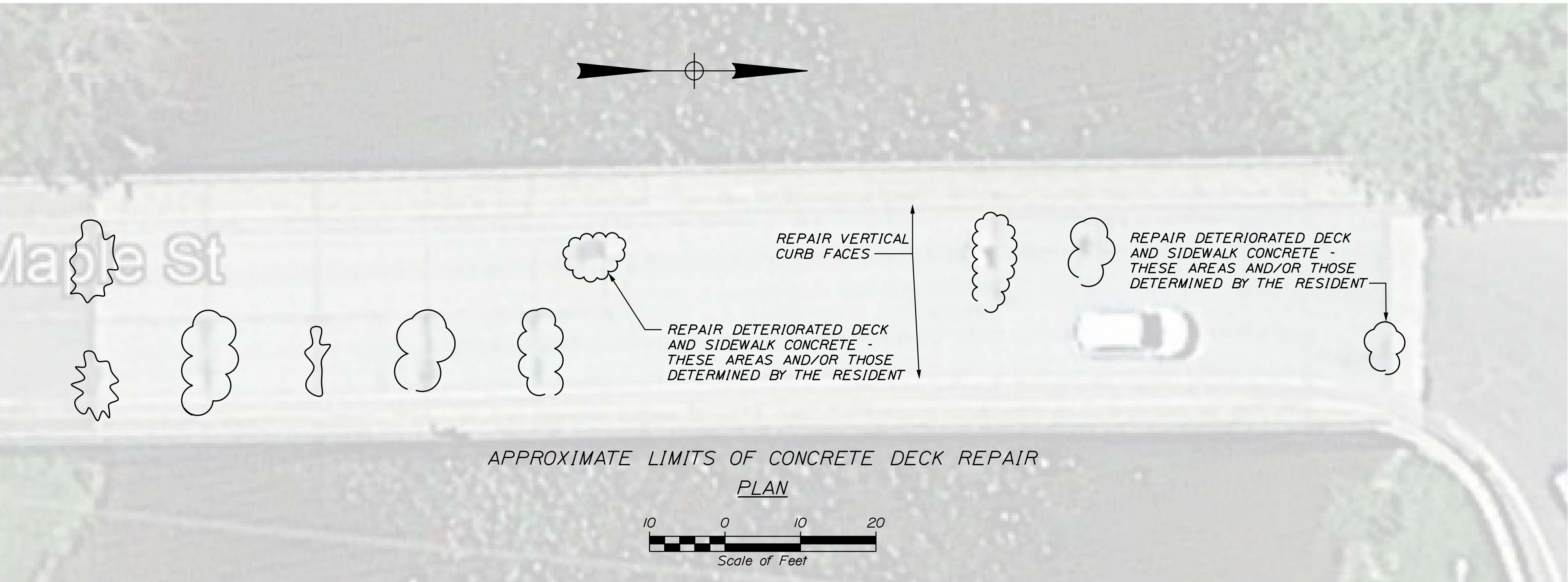
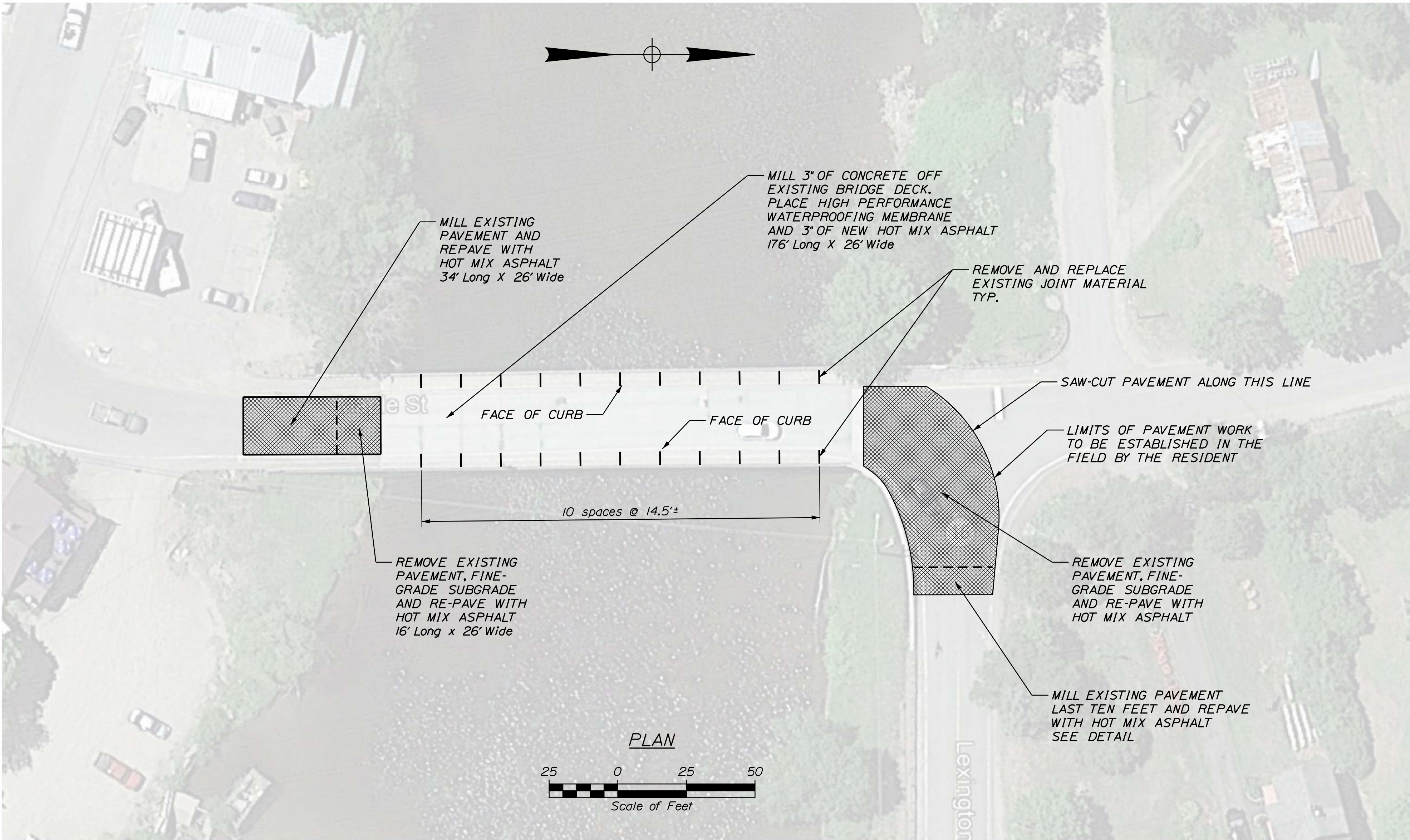
b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

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.

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

Curb faces
Sidewalks
Top of concrete wingwalls/retaining walls
Concrete Transition Barriers
Concrete Rail on Northeast corner of bridge

SHEET NUMBER 2 OF 10				CENTENNIAL BRIDGE CARRABASSET RIVER KINGFIELD FRANKLIN COUNTY				PROJ. MANAGER	Mike Wright	BY	DATE
				ESTIMATED QUANTITIES AND GENERAL CONSTRUCTION NOTES				DESIGN-DETAILED	M. GRAY	GRAY/SHAW	3-1-2019
								CHECKED-REVIEWED	M. GRAY	D. SHAW	
								DESIGN2-DETAILED2			
								DESIGN3-DETAILED3			
								P.E. NUMBER			
								REVISIONS 1			
								REVISIONS 2			
								REVISIONS 3			
								REVISIONS 4			
				FIELD CHANGES							
				DATE							
STATE OF MAINE DEPARTMENT OF TRANSPORTATION FED PROJECT NO. 2304800 BRIDGE NO. 5652 WIN 023048.00 BRIDGE PLANS											



SCOPE OF WORK

1. MILL 3" OF EXISTING CONCRETE DECK OR AS DIRECTED BY RESIDENT
2. REPAIR DETERIORATED DECK AND SIDEWALK CONCRETE
3. INSTALL HIGH PERFORMANCE WATERPROOFING MEMBRANE
4. INSTALL 3" HOT MIX ASPHALT WEARING SURFACE
5. REPAIR EXISTING CONCRETE SIDEWALKS.
6. REMOVE AND REPLACE EXISTING JOINT MATERIAL IN CURB FACES, SIDEWALKS AND FASCIAS AT APPROXIMATELY 14' SPACINGS, BOTH SIDES OF BRIDGE

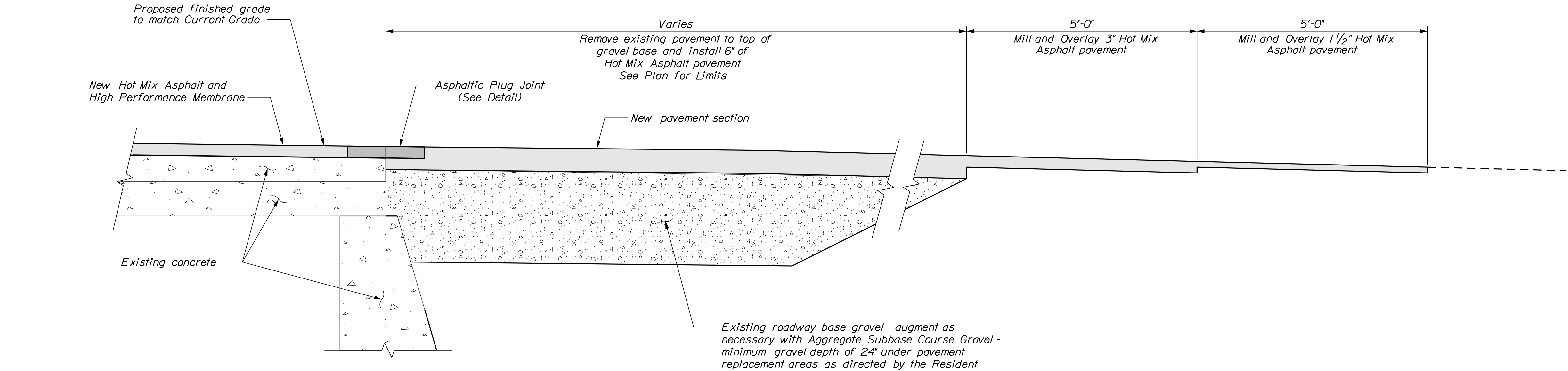
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
CENTENNIAL BRIDGE		FRANKLIN COUNTY	
KINGFIELD		GENERAL PLAN	
SHEET NUMBER		3	
OF 10		BRIDGE NO. 6852	
WIN		023048.00	
BRIDGE PLANS		FED PROJECT NO. 2304800	
SIGNATURE		DATE	
P.E. NUMBER		DATE	
DATE		DATE	
FIELD CHANGES		FIELD CHANGES	
PROJ. MANAGER		BY	
DESIGN-DETAILED		DATE	
CHECKED-REVIEWED		DATE	
DESIGN-DETAILED		DATE	
REVISIONS 1		DATE	
REVISIONS 2		DATE	
REVISIONS 3		DATE	
REVISIONS 4		DATE	
Mike Wright		DATE	
Mark Gray		DATE	
Gray/Shaw		DATE	
3-1-2019		DATE	

Date:3/14/2019

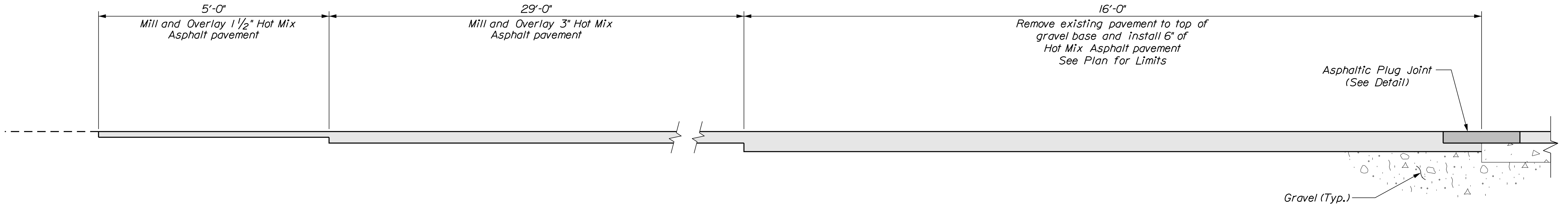
Username: David Shaw

Division: BRIDGE

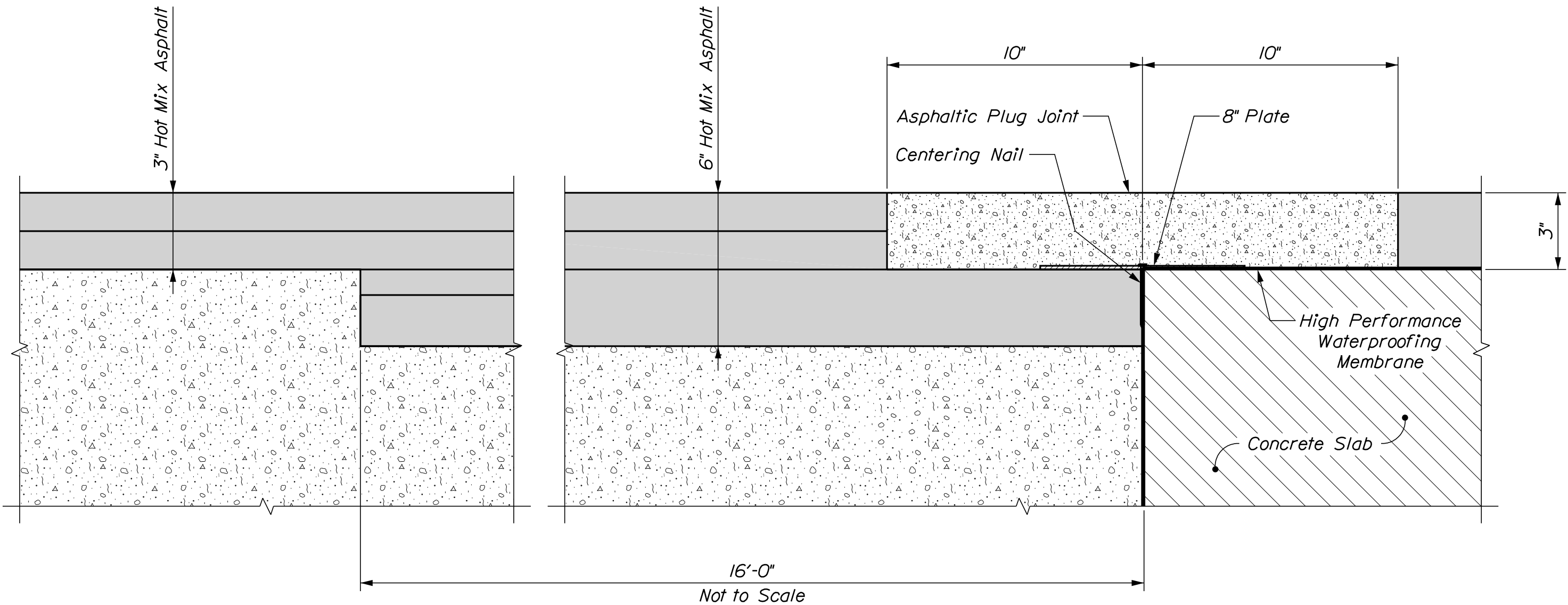
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SECTION AT NORTH ABUTMENT AND PAVED APPROACH



APPROACH PAVEMENT DETAIL SOUTH END



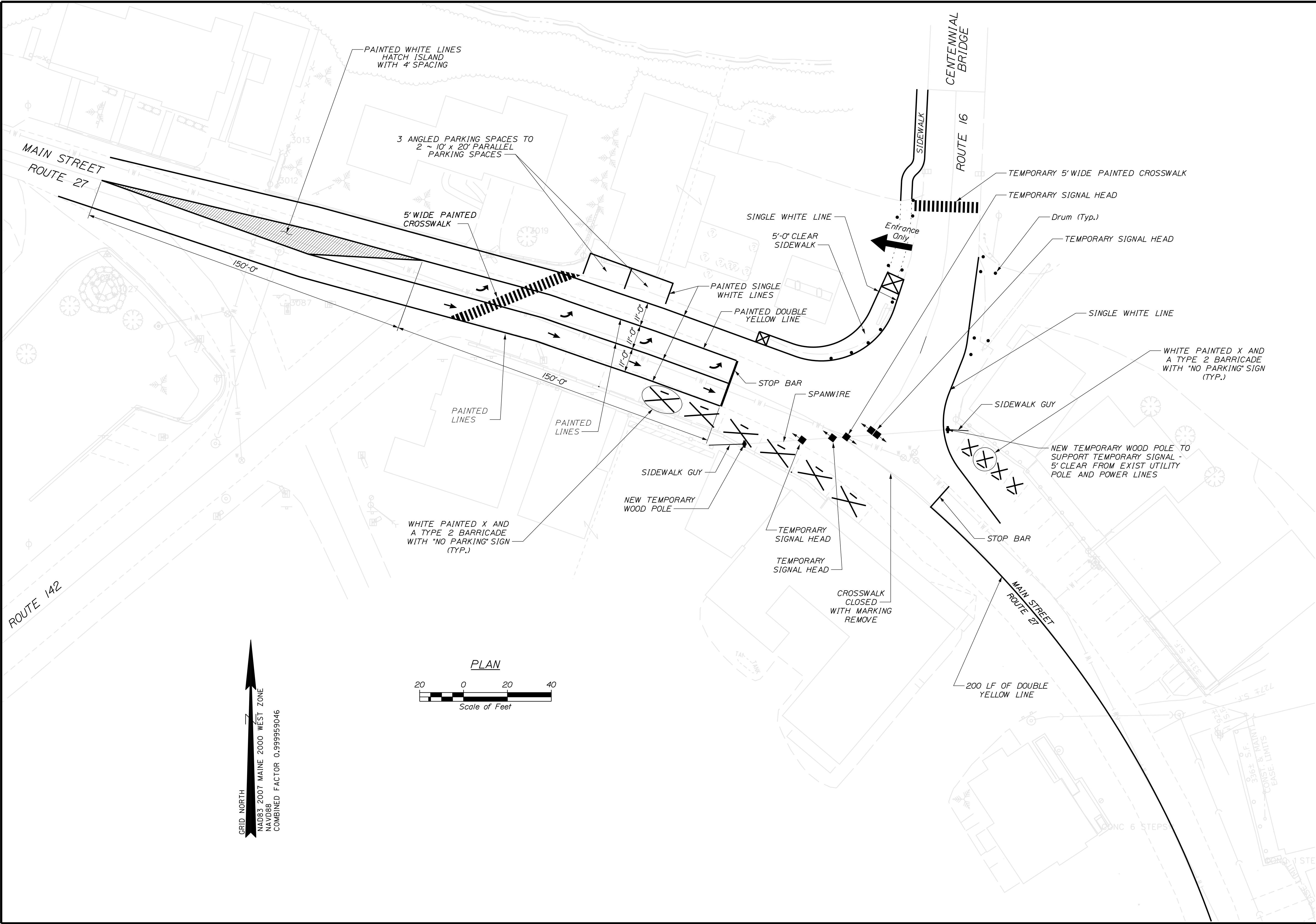
ASPHALTIC PLUG JOINT SECTION
Not to Scale

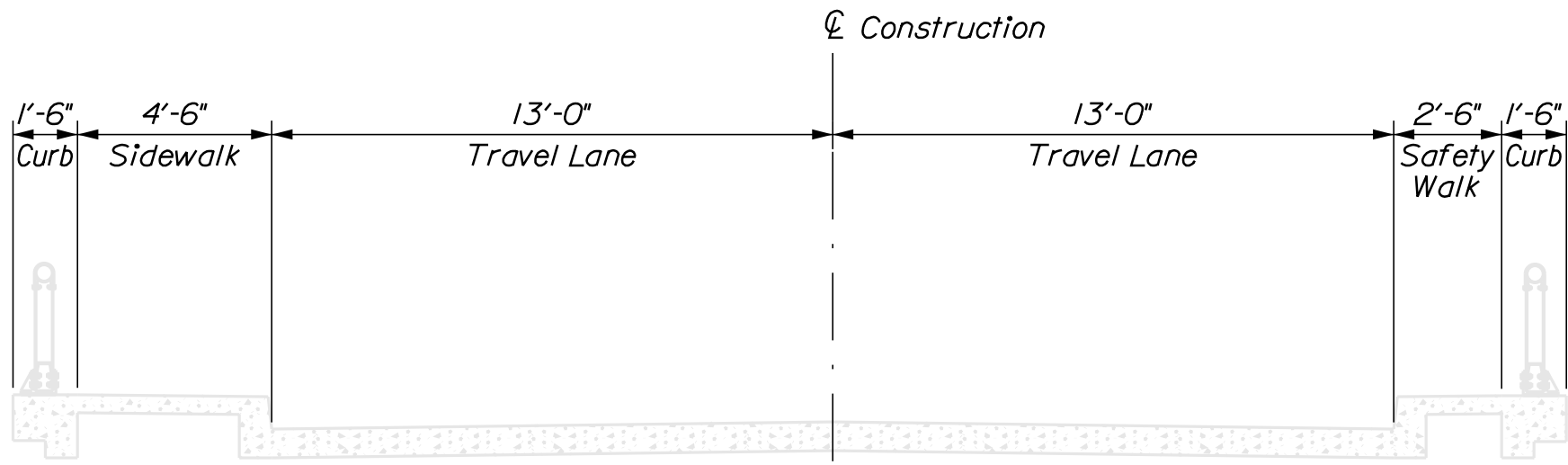
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
FED PROJECT NO. 2304800
WIN 023048.00
BRIDGE NO. 6852
BRIDGE PLANS

PROJ. MANAGER	Mike Wright	BY	GRAY/SHAW	DATE	3-1-2019
DESIGN-DETAILED	Mark Gray				
CHECKED-REVIEWED					
DESIGN-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					
SIGNATURE					
P.E. NUMBER					
DATE					

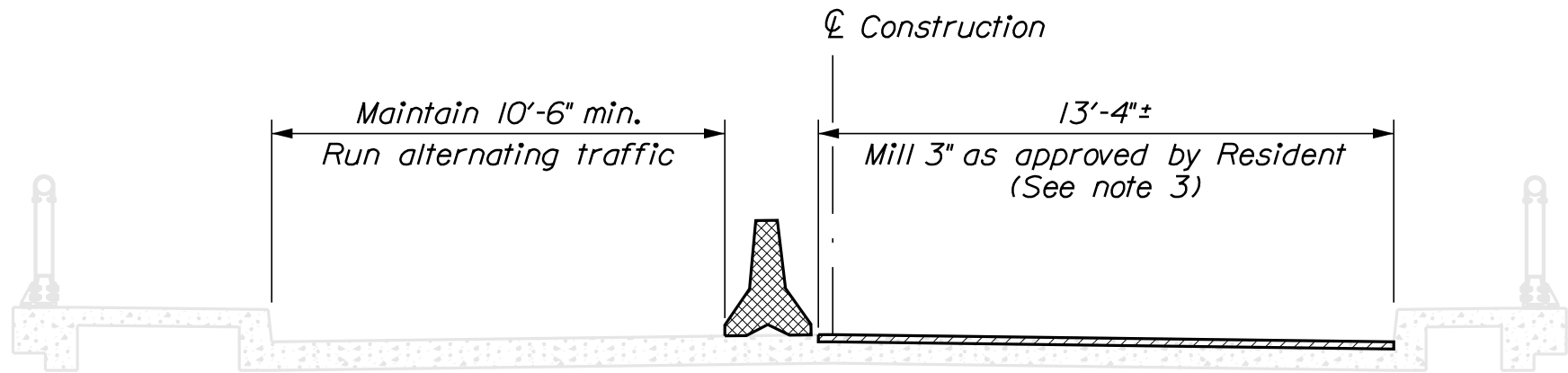
CENTENNIAL BRIDGE	FRANKLIN COUNTY
CARRABASSET RIVER	
KINGFIELD	
APPROACH DETAILS	

SHEET NUMBER
4
OF 10

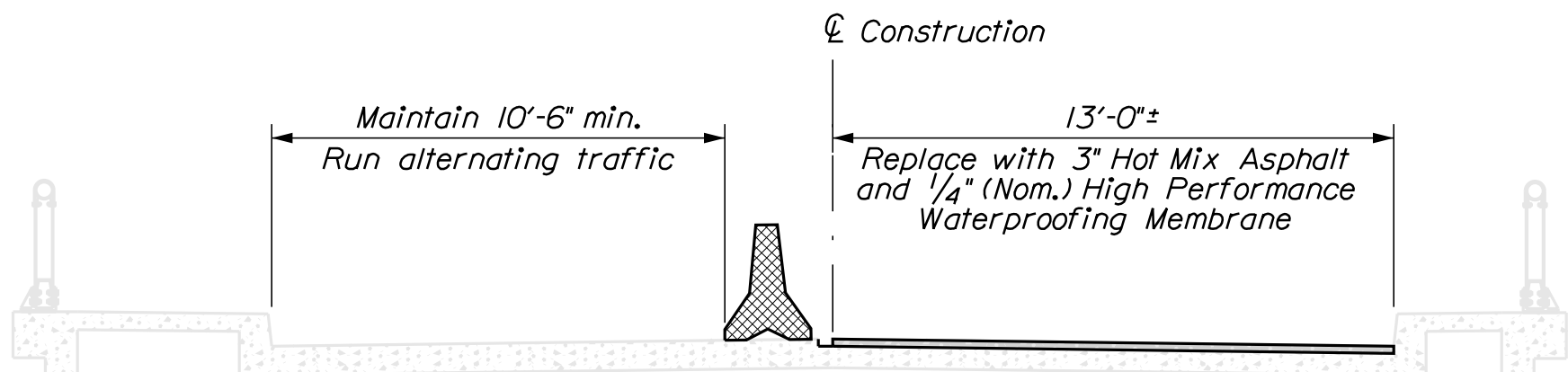




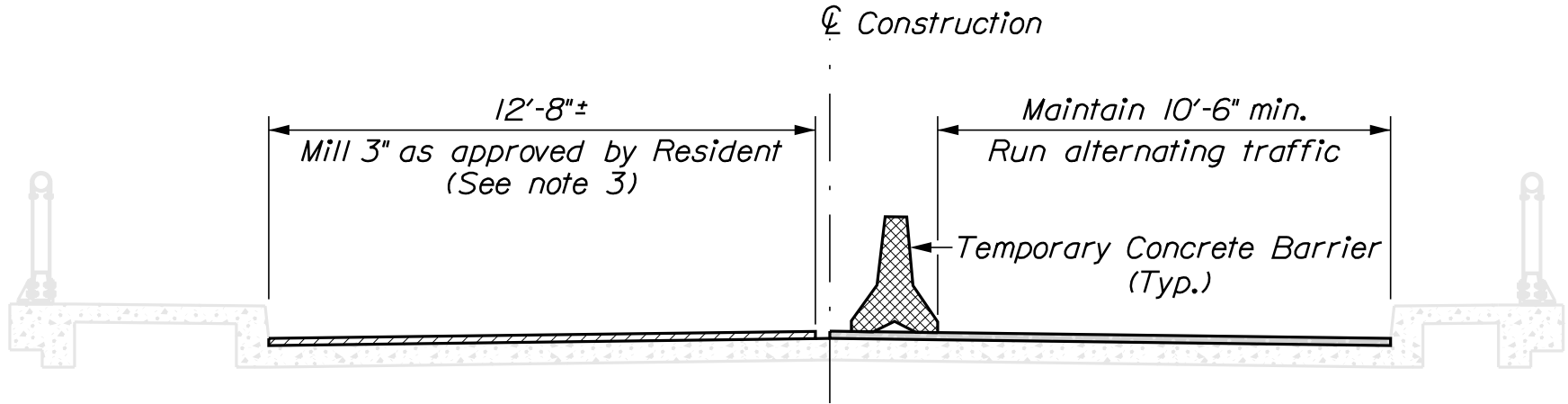
EXISTING SECTION



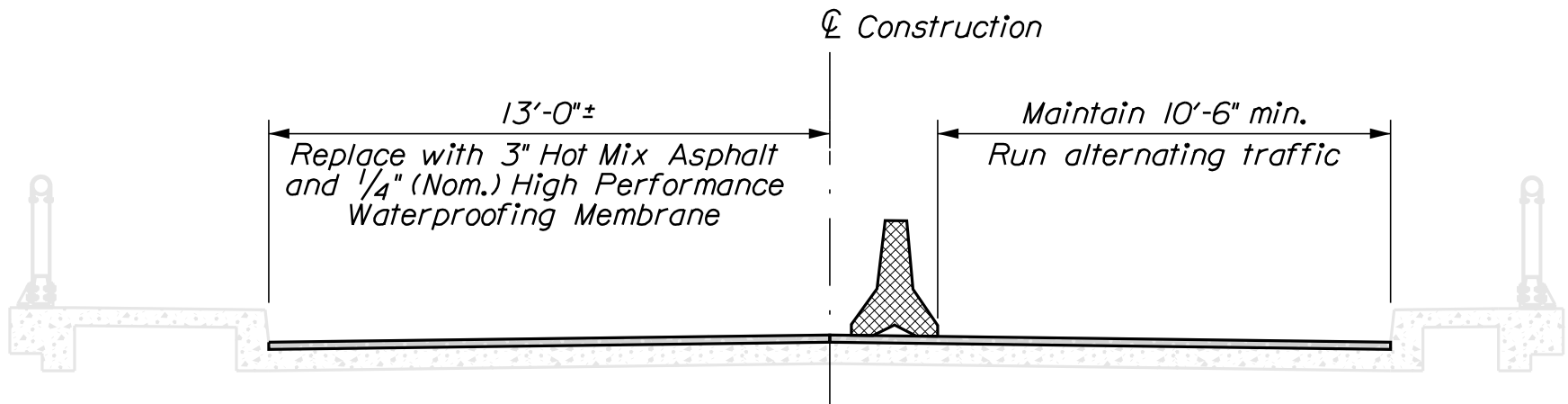
PHASE I DEMOLITION



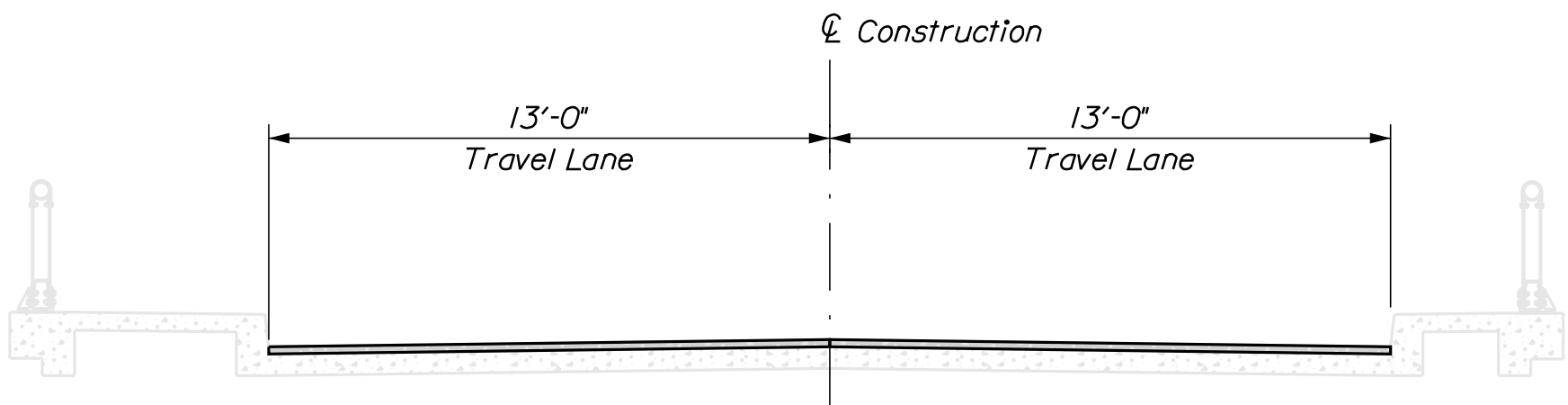
PHASE I CONSTRUCTION



PHASE II DEMOLITION



PHASE II CONSTRUCTION

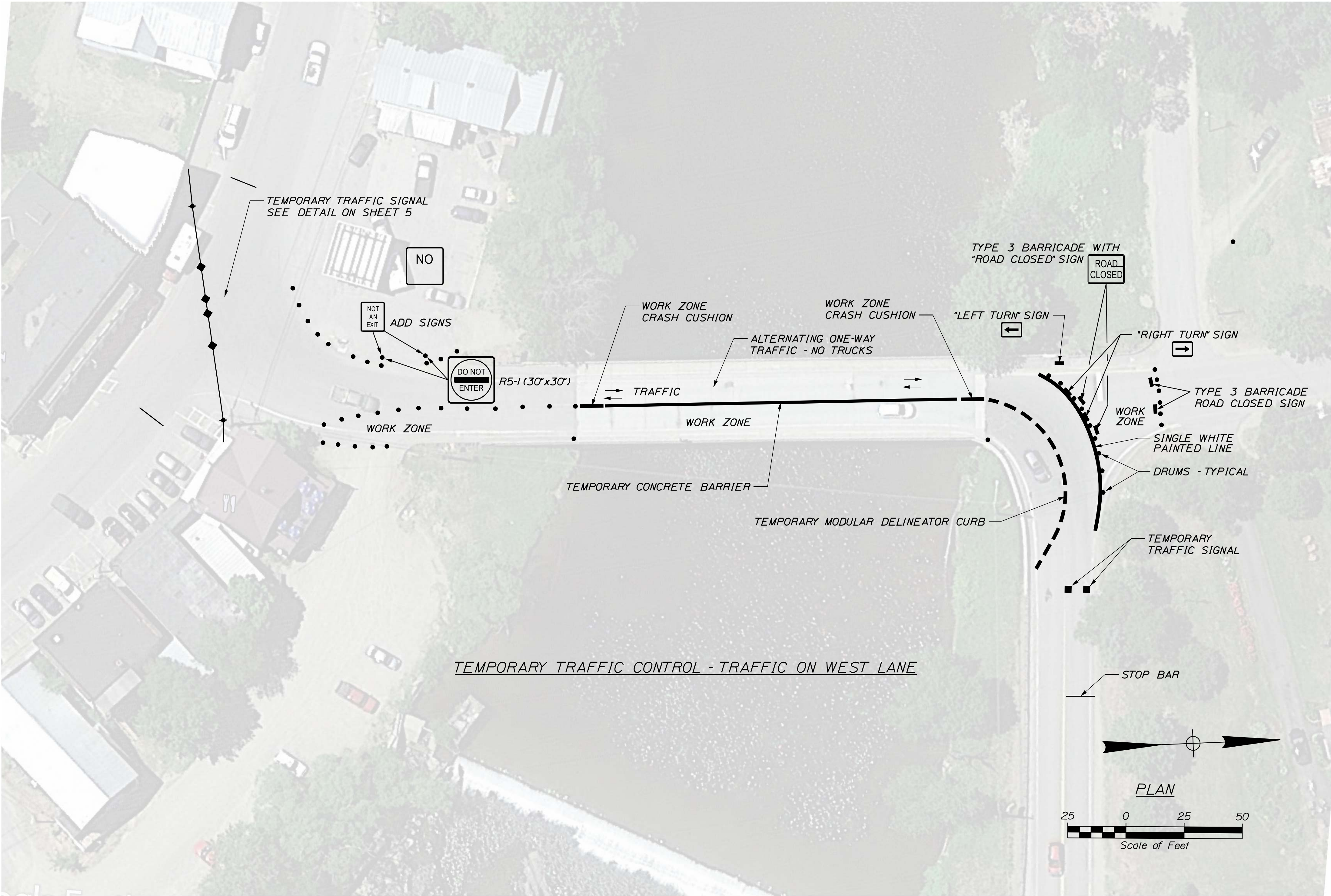


PHASE III COMPLETE

NOTES

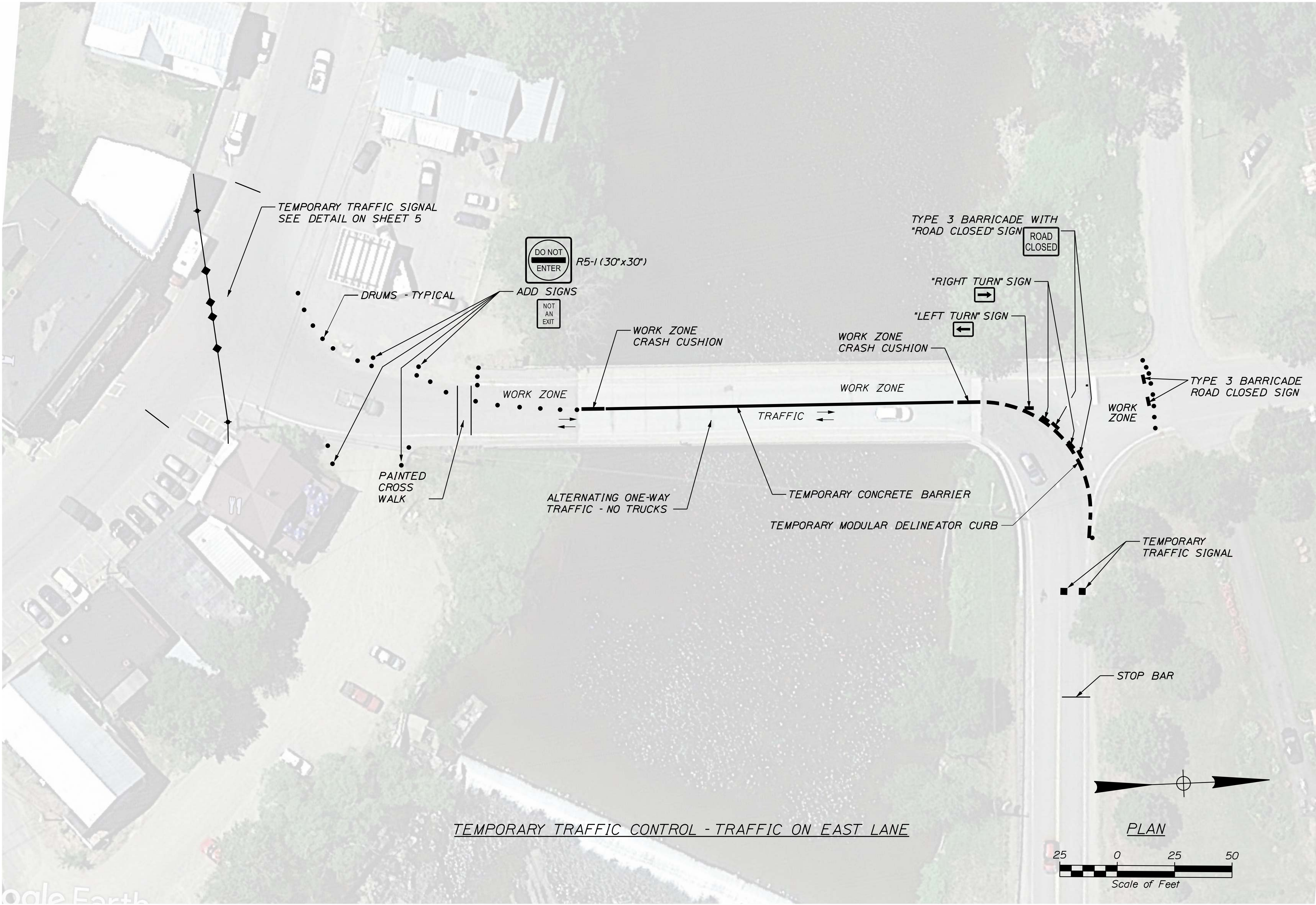
1. All surface paving shall be completed in a single operation.
2. Mill existing concrete surface to a depth of 3". Presence and depth of steel reinforcing is not known and may vary from panel to panel along the length of the bridge. If steel reinforcing is encountered, mill to the top surface of the steel reinforcing.

CENTENNIAL BRIDGE CARRABASSET RIVER KINGFIELD	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	FED PROJECT NO. 2304800			
	BRIDGE NO. 6652WIN023048.00BRIDGE PLANS			
STAGED CONSTRUCTION I	PROJ. MANAGER	Mike Wright	BY	DATE
	DESIGN-DETAILED	Mark Gray	GRAY/SHAW	3-1-2019
	CHECKED-REVIEWED			
	DESIGN-DETAILED			SIGNATURE
	REVISIONS 1			P.E. NUMBER
SHEET NUMBER	REVISIONS 2			DATE
	REVISIONS 3			
	REVISIONS 4			
FIELD CHANGES				

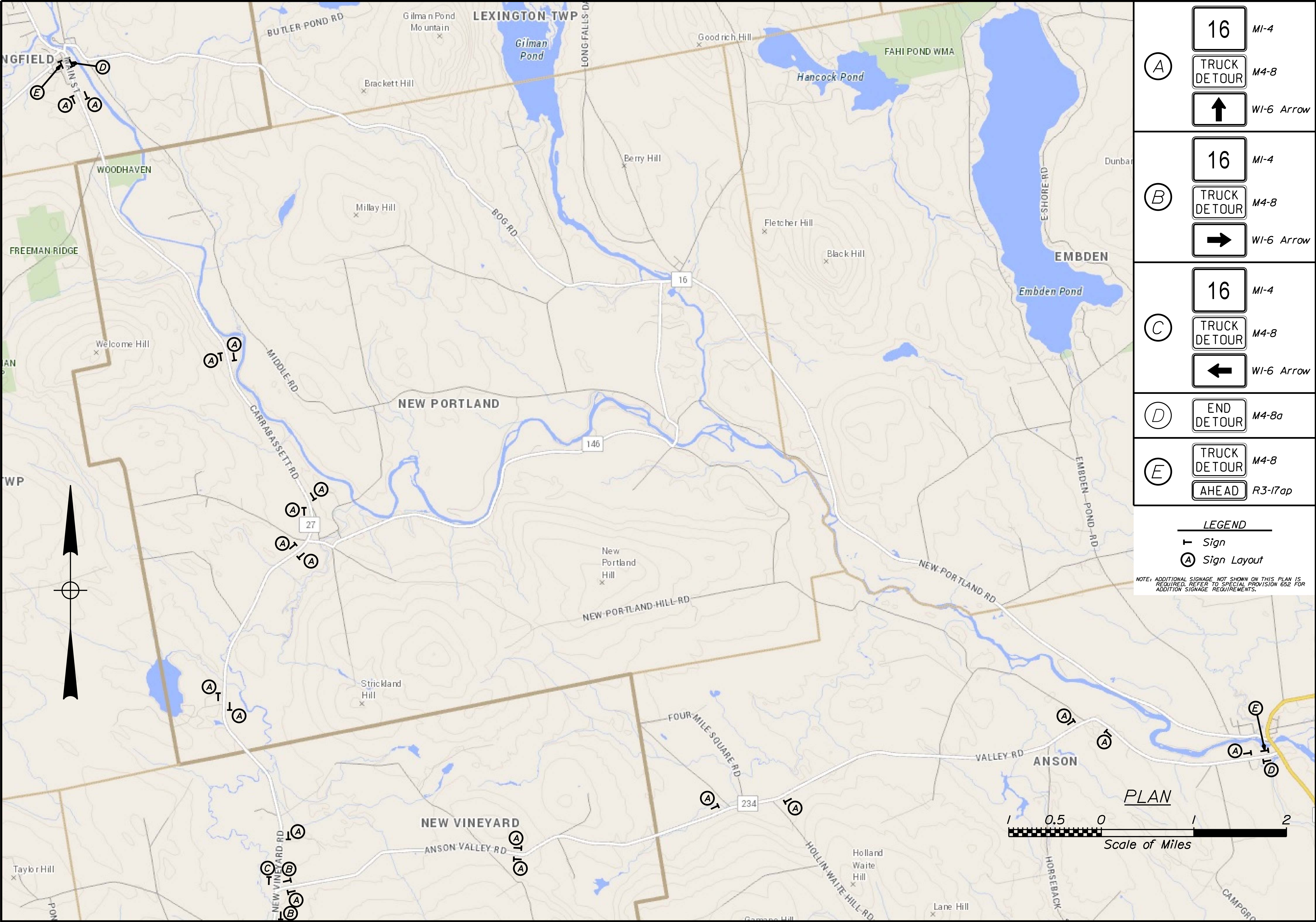


CENTENNIAL BRIDGE CARRABASSET RIVER KINGFIELD FRANKLIN COUNTY STAGED CONSTRUCTION II	PROJ. MANAGER		Mike Wright	BY	DATE
	DESIGN-DETAILED		Mark Gray	GRAY/SHAW	3-1-2019
	CHECKED-REVIEWED				
	DESIGN2-DETAILED2				
	DESIGN3-DETAILED3				
	REVISIONS 1				
	REVISIONS 2				
	REVISIONS 3				
	REVISIONS 4				
	FIELD CHANGES				
	SHEET NUMBER				
	2				
	OF 10				

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
FED PROJECT NO. 2304800	
BRIDGE NO. 5852	WIN 023048.00
BRIDGE PLANS	



CENTENNIAL BRIDGE CARRABASSET RIVER KINGFIELD FRANKLIN COUNTY STAGED CONSTRUCTION III		PROJ. MANAGER		Mike Wright	BY	DATE
		DESIGN-DETAILED		Mark Gray	GRAY/SHAW	
		CHECKED-REVIEWED				
		DESIGN-DETAILED2				
		DESIGN-DETAILED3				
		REVISIONS 1				
		REVISIONS 2				
		REVISIONS 3				
		REVISIONS 4				
		FIELD CHANGES				
SHEET NUMBER		DATE				
08		P.E. NUMBER				
OF 10		DATE				
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 5852				
		WIN				
		023048.00				
BRIDGE NO. 5852		BRIDGE PLANS				



A	16	MI-4
	TRUCK DETOUR	M4-8
	↑	WI-6 Arrow
B	16	MI-4
	TRUCK DETOUR	M4-8
	→	WI-6 Arrow
C	16	MI-4
	TRUCK DETOUR	M4-8
	←	WI-6 Arrow
D	END DETOUR	M4-8a
	TRUCK DETOUR	M4-8
E	AHEAD	R3-17ap

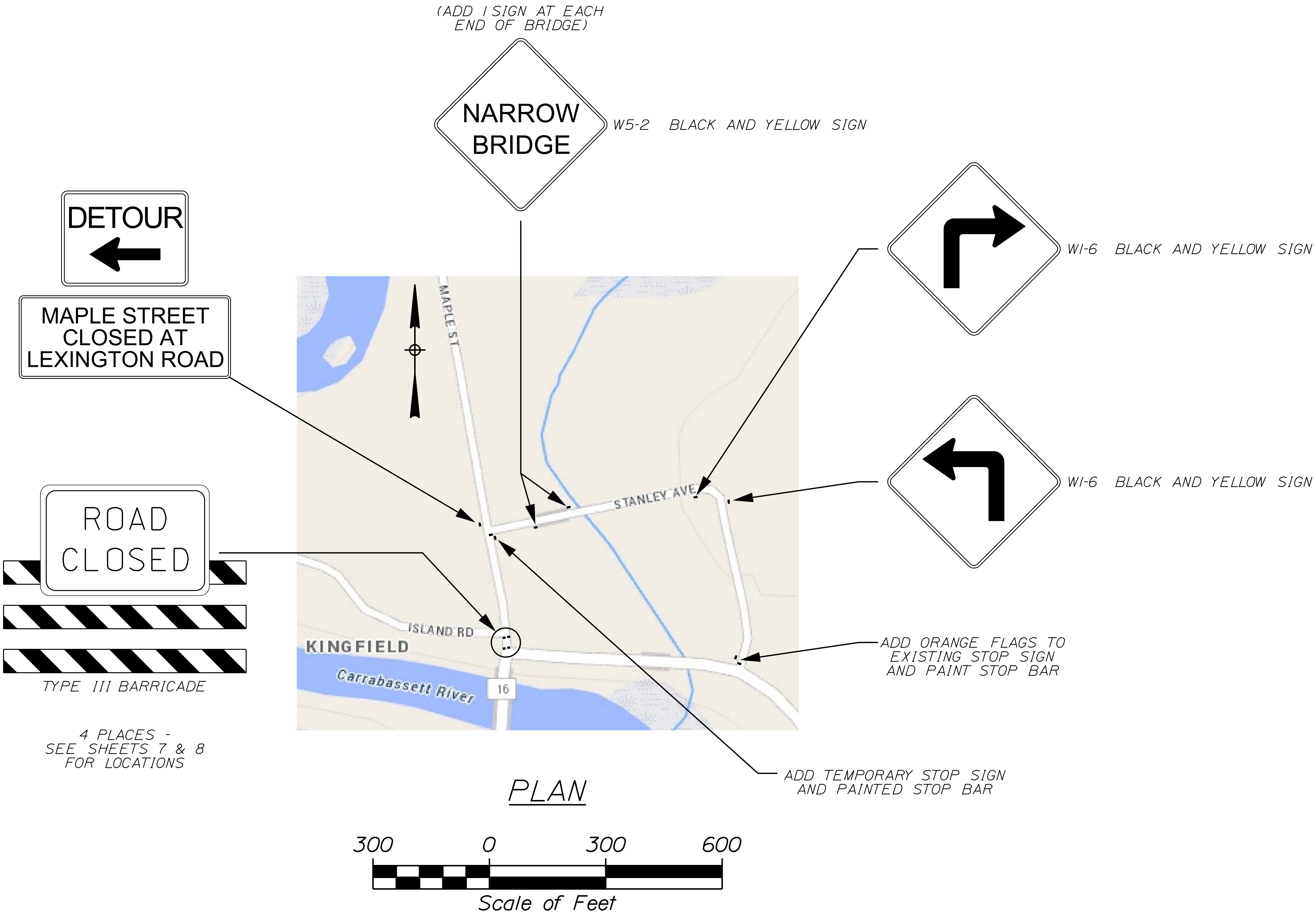
LEGEND

↑ Sign

Ⓐ Sign Layout

NOTE: ADDITIONAL SIGNAGE, NOT SHOWN ON THIS PLAN IS REQUIRED. REFER TO SPECIAL PROVISION 652 FOR ADDITIONAL SIGNAGE REQUIREMENTS.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION FED PROJECT NO. 2304800	CENTENNIAL BRIDGE CARRABASSET RIVER FRANKLIN COUNTY KINGFIELD	SHEET NUMBER 9 OF 10	
			TRUCK DETOUR PLAN
			BRIDGE NO. 6852 WIN 023048.00 BRIDGE PLANS



NOTE: ADDITIONAL SIGNAGE NOT SHOWN ON THE DETOUR PLANS ARE REQUIRED. REFER TO SPECIAL PROVISION 652 FOR ADDITION SIGNAGE REQUIREMENTS.

SHEET NUMBER		CENTENNIAL BRIDGE CARRABASSET RIVER KINGFIELD FRANKLIN COUNTY		PROJ. MANAGER		Mike Wright	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION				
				DESIGN-DETAILED	Mark Gray	GRAY/SHAW							
10		LOCAL DETOUR PLAN		CHECKED-REVIEWED					SIGNATURE				
				DESIGN2-DETAILED2									
				DESIGN3-DETAILED3					P.E. NUMBER				
				REVISIONS 1									
				REVISIONS 2									
OF 10				REVISIONS 3						WIN 023048.00	BRIDGE NO. 5852	BRIDGE PLANS	
				REVISIONS 4									DATE
				FIELD CHANGES									