

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Tenth Edition 2024.

DESIGN LOADING

Live Load.....HL - 93 Modified for Strength I

HYDROLOGIC DATA

Drainage Area.....	4.68 sq mi
Design Discharge (Q50).....	157 cfs
Check Discharge (Q100).....	177 cfs
Headwater Elevation (Q1.1).....	579.1 ft
Headwater Elevation (Q25).....	580.5 ft
Headwater Elevation (Q50).....	580.7 ft
Headwater Elevation (Q100).....	580.9 ft
Discharge Velocity (Q1.1).....	2.8 fps
Discharge Velocity (Q50).....	4.3 fps
Discharge Velocity (Q100).....	4.5 fps

MATERIALS

Concrete:	
Precast.....	Class "P"
All Other.....	Class "A"
Reinforcing:	
Plain Reinforcing Steel.....	ASTM A615/A615M, Grade 60
Welded Wire Reinforcement.....	ASTM A1064/A1064M

BASIC DESIGN STRESSES

Concrete:	
Class "A".....	f 'c = 4,000 psi
Class "P".....	f 'c = 5,000 psi
Reinforcing:	
Plain Reinforcing Steel.....	f y = 60,000 psi
Welded Wire Reinforcement.....	f y = 65,000 psi

LIST OF DRAWINGS

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UTILITIES

Eastern Maine Electric Cooperative, Inc.

TRAFFIC DATA

Current (2024) AADT	230
Design Speed (mph)	50

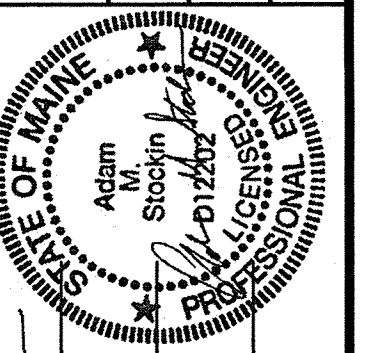
MAINTENANCE OF TRAFFIC

On-site detour maintaining one lane of alternating traffic using temporary traffic signals.

T8 R3 NBPP
WASHINGTON COUNTY
BIG MEADOW BRIDGE
OVER
MEADOW BROOK
ROUTE 169/SPRINGFIELD ROAD
FEDERAL AID PROJECT NO. 2727000
BRIDGE NO. 0064

<u>PROJECT LOCATION</u>	In T8 R3 NBPP, Big Meadow Bridge (#0064) over Meadow Brook. Located 0.52 of a mile north of Prentiss TWP T7 R3 NBPP town line. Lat./Long. 45°32'37.3"N 68°00'37.9"W
<u>OUTLINE OF WORK</u>	Bridge Culvert Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE
APPROVED		
COMMISSIONER:		8/13/2024
CHIEF ENGINEER:	 <i>Benjamin M. Fack</i>	8/12/2026



PROJECT INFORMATION		
PROGRAM	BRIDGE	
PROJECT MANAGER	RICH MYERS	
DESIGNER	A. STOCKIN	
CONSULTANT	WSP	
PROJECT RESIDENT		
CONTRACTOR		DATE
PROJECT COMPLETION DATE		

WIN 27270.00

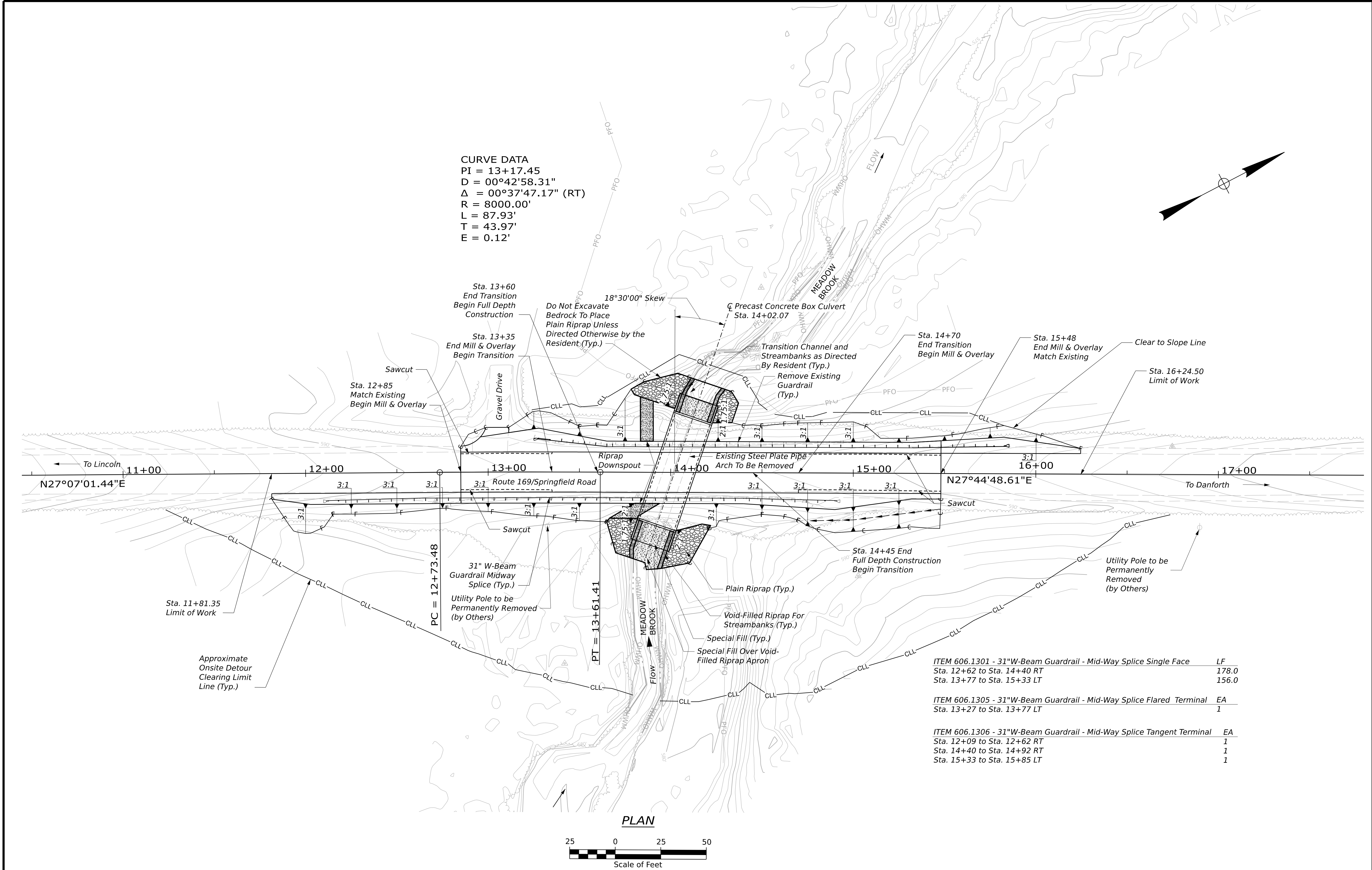
T8 R3 NBPP BIG MEADOW BRIDGE

TITLE SHEET

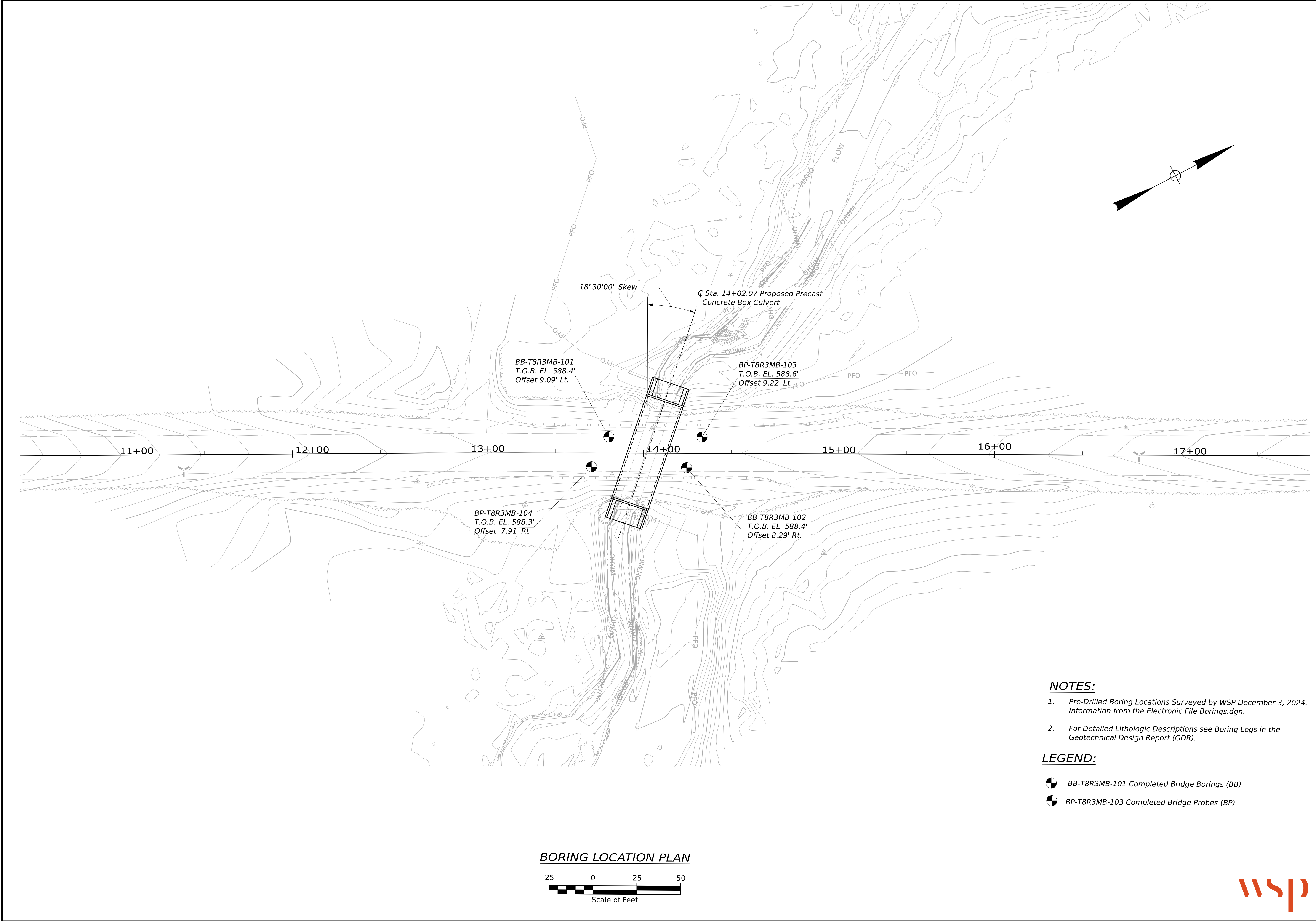
SHEET NUMBER

1

OF 21



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		Federal Project No. 2727000		WIN 27270.00	
BIG MEADOW BRIDGE NO. 0064		CROSSING MEADOW BROOK		T8 R3 NBPP		GENERAL PLAN	
SHEET NUMBER		3		OF		21	
PROJ. MANAGER	RICH. WYERS	BY	E. WILLIAMS	DATE	7/2026	SIGNATURE	
DESIGN-DETAILED	T. HIGGINSON	CHECKED-REVIEWED	T. HIGGINSON	DATE	7/2026	P.E. NUMBER	
DESIGN-DETAILED2		DESIGN-DETAILED3		REVISIONS 1		DATE	
REVISIONS 2		REVISIONS 3		REVISIONS 4			
FIELD CHANGES							



NOTES:

- Pre-Drilled Boring Locations Surveyed by WSP December 3, 2024. Information from the Electronic File Borings.dgn.
- For Detailed Lithologic Descriptions see Boring Logs in the Geotechnical Design Report (GDR).

LEGEND:

- BB-T8R3MB-101 Completed Bridge Borings (BB)
- BP-T8R3MB-103 Completed Bridge Probes (BP)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Federal Project No. 2727000
WIN 27270.00

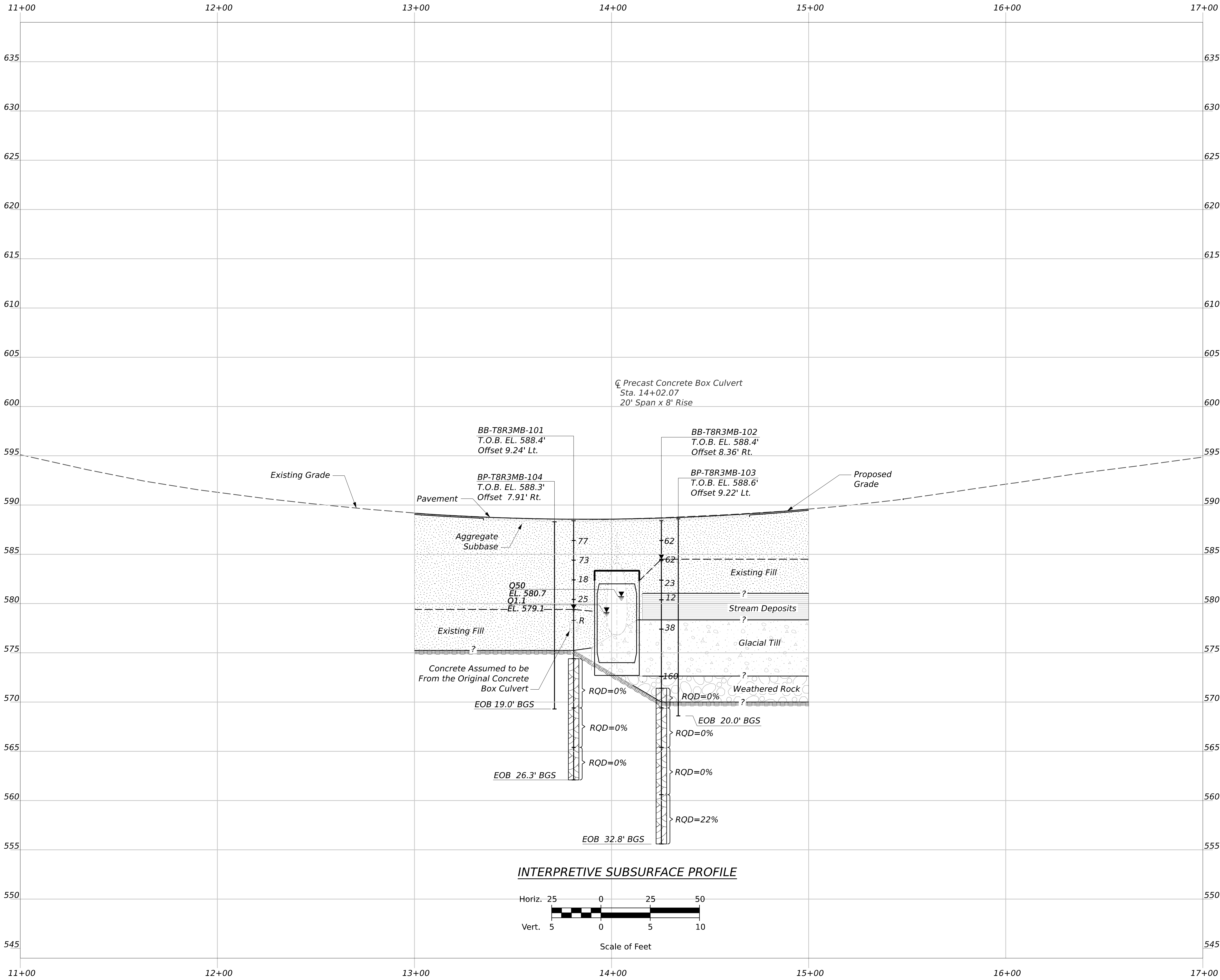
PROJ. MANAGER	RICH MYERS	BY	DATE
DESIGN-DETAILED	D. HENDERSON	D. HENDERSON	7/2026
CHECKED-REVIEWED	M. LADDON	M. LADDON	7/2026
DESIGN-3-D-DETAILED2			
DESIGN-3-D-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BIG MEADOW BRIDGE NO. 0064
CROSSING MEADOW BROOK
T8 R3 NBPP

BORING LOCATION PLAN

SHEET NUMBER

5
OF 21



Boring Location I.D.

Elevation

Offset (Ft.) From Section Line

Top of Boring Probe

SPT: N60 - Value

(Corrected for Hammer Efficiency)

R

Refusal

— ?

Strata Interface

Run 1 = 92%

Core Run Number and Rock Quality Designation (RQD)

EOB

End of Boring Depth Below Ground Surface (BGS)

LEGEND

Brown, Medium Dense to Dense, Fine to Coarse Sand, Fine to Coarse Gravel, Trace to Some Silt (Fill)

Dark Yellow, Soft Moderately Plastic Silt with Some Fine to Medium Gravel and Little Coarse to Fine Sand (Stream Deposits)

Olive Brown, Medium Dense Coarse to Fine Sand, Some Coarse to Fine Gravel, Some Silt (Glacial Till)

Weathered Bedrock

Grey, Fine Grained Slate (Bedrock)

Existing Ground Surface

Interpreted Ground Water Surface

Design Water Level

Existing Bridge Structure

Proposed Bridge Substructure and Superstructure

NOTES:

1. Pre-drilled boring locations surveyed by WSP December 3, 2024. Information from the electronic file Borings.dgn.

2. For detailed lithologic descriptions see boring logs in the Geotechnical Design Report (GDR).

3. For complete laboratory data, see laboratory results in the Geotechnical Design Report (GDR).

4. Groundwater surface is interpreted from localized water levels and measurements taken during the subsurface exploration program, see the Geotechnical Design Report (GDR) and Boring Logs.

5. This generalized subsurface profile is intended to convey trends in the subsurface conditions. The boundaries between strata are approximate and idealized and have been developed based on interpretations of widely spaced explorations. Actual soil and rock transitions may vary and may be erratic.

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

Federal Project No. 2727000

WIN 27270.00

PROJ. MANAGER

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN-DETAILED2

DESIGN-DETAILED3

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

DATE

7/2026

7/2026

BY

D. HENDERSON

M. LADDON

RICH MYERS

R. NAGLE

M. LADDON

SIGNATURE

P.E. NUMBER

DATE

BIG MEADOW BRIDGE NO. 0064

CROSSING MEADOW BROOK

T8 R3 NBPP

INTERPRETIVE SUBSURFACE PROFILE

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Maine Department of Transportation				Project: North Bridge Bundle INBH1, Bridge #0564		Boring No.: BP-TBR3MB-103	
Salt/Rock Exploration Log US CUSTOMARY UNITS				Location: TR-85, ME		WIN: 027270.00	
Driller:		Seaboard Drilling, LLC		Elevation (ft.):	588.60	Auger 10'/OD:	4 in
Operator:		Eric Baron		Datum:	NAVD88	Sampler:	N/A
Logged By:		Ryan Nagle		Rig Type:	Clearch D-50 (SN367)	Hammer Wt./Fall:	N/A
Date Start/Finish:		12/10 ~ 12/23 3/18/25		Drilling Method:	SSA	Core Barrel:	N/A
Boring Location:		N1623624.71 E12261859.96		Casing 10'/OD:	N/A	Water Level:	N/A
Hammer Efficiency Factor(s) 1.0				Hammer: ☐ Automatic ☒ Hydraulic ☐ Rops & Cathead ☐			
Definitions:				S _w = Rock Core Sample S _u = Undrained Soil Field Vane Undrained Shear Strength (psf) S _{sp} = Split Spoon Sample SSA = Solid Stem Auger S _{avg} = Vane Undrained Shear Strength (psf) MC = Unconsolidated Split Spoon Sample Attempt HSA = Hollow Stem Auger S _p = Unpointed Compressive Strength (ksi) V = Thin Wall Tube Sample BC = Hammer Cone N _{un} = uncorrected = Raw Field SPT Invalid S _u = Unconsolidated Thin Wall Tube Sample Attempt WSP = Weight of H ₂ O Hammer Hammer Efficiency Factor = Rig Specific Annual Calibration Value V = Field Vane Shear Test, PP = Pocket Penetrometer WDR = Weight of Rod or Casing N _g = SPT Uncorrected Corrected for Hammer Efficiency MC = Unconsolidated Field Vane Shear Test Attempt N _u = Hammer Efficiency Factor (Not Used) = uncorrected			
Sample Information				Graphic Log			
Depth (ft.)	Sample No.	Spec. Desc. (P.H.C.)	Sample Depth (Feet)	Blow Count (SPT) Symptom (Last Last) or MDL (X)	Uncorrected Corrected	Logging Blow Count	Visual Description and Remarks
							Augered from surface to approximately 20 ft bgs.
5							Driller Notes: It is gravelly to approximately 4 ft bgs below the surface.
10							Driller Notes: A significant reduction in drilling resistance between 1.0 ft and 13.5 ft bgs.
15							Driller notes harder rock encountered at 14.8 ft and continued to 20 ft bgs.
20						588.6	Bottom of Exploration at 20.0 feet below ground surface. Boring supplemented with gravel to bottom of pycnometer, and patched with cold patch asphalt.
25							
30							
35							
40							
45							
50							
55							
60							
65							
70							
75							
80							
85							
90							
95							
100							

1. Hammer Efficiency factor provided by Seaboard and taken from "2024AP0175-Seaboard-SPT Energy Calibration" by GR Engineers Inc., dated 10/23/2024.

2. As-drilled boring locations and ground surface elevations were obtained by WSP in the electronic file "Borings.odn" on 5/6/25.

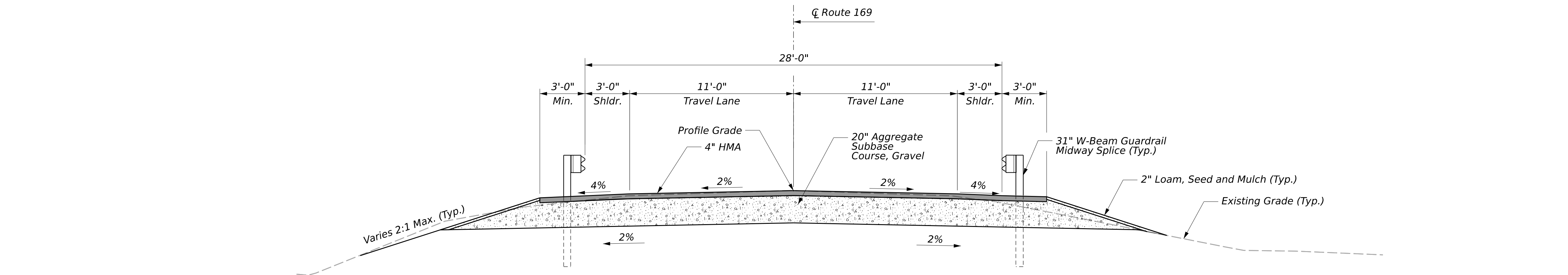
Stratification lines represent approximate boundaries between soil types transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to no conditions other than those present at the time measurements were made.

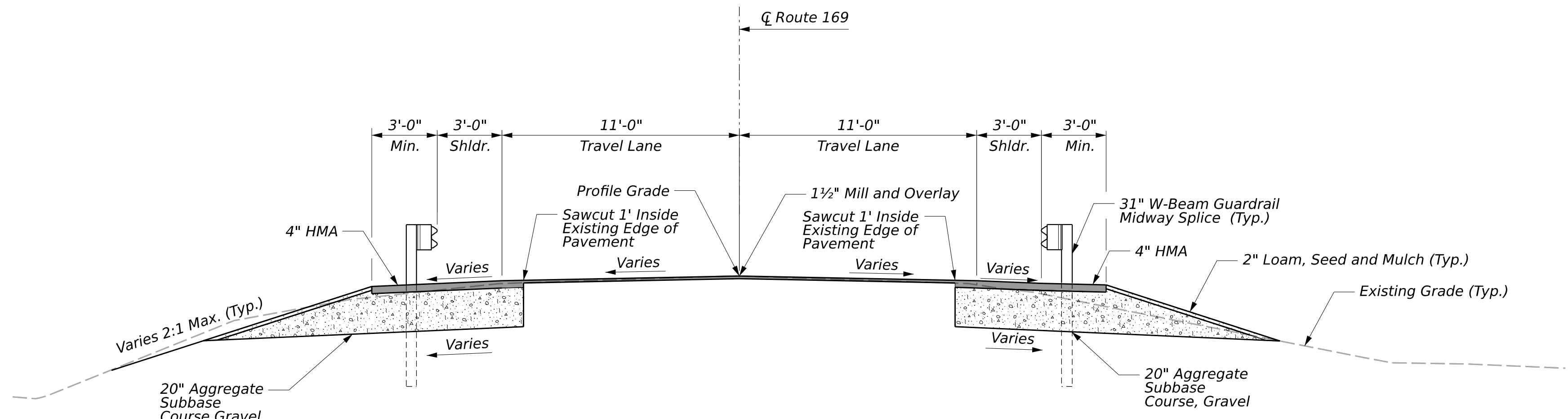
Page 1 of 1

Boring No.: BP-TBR3MB-103

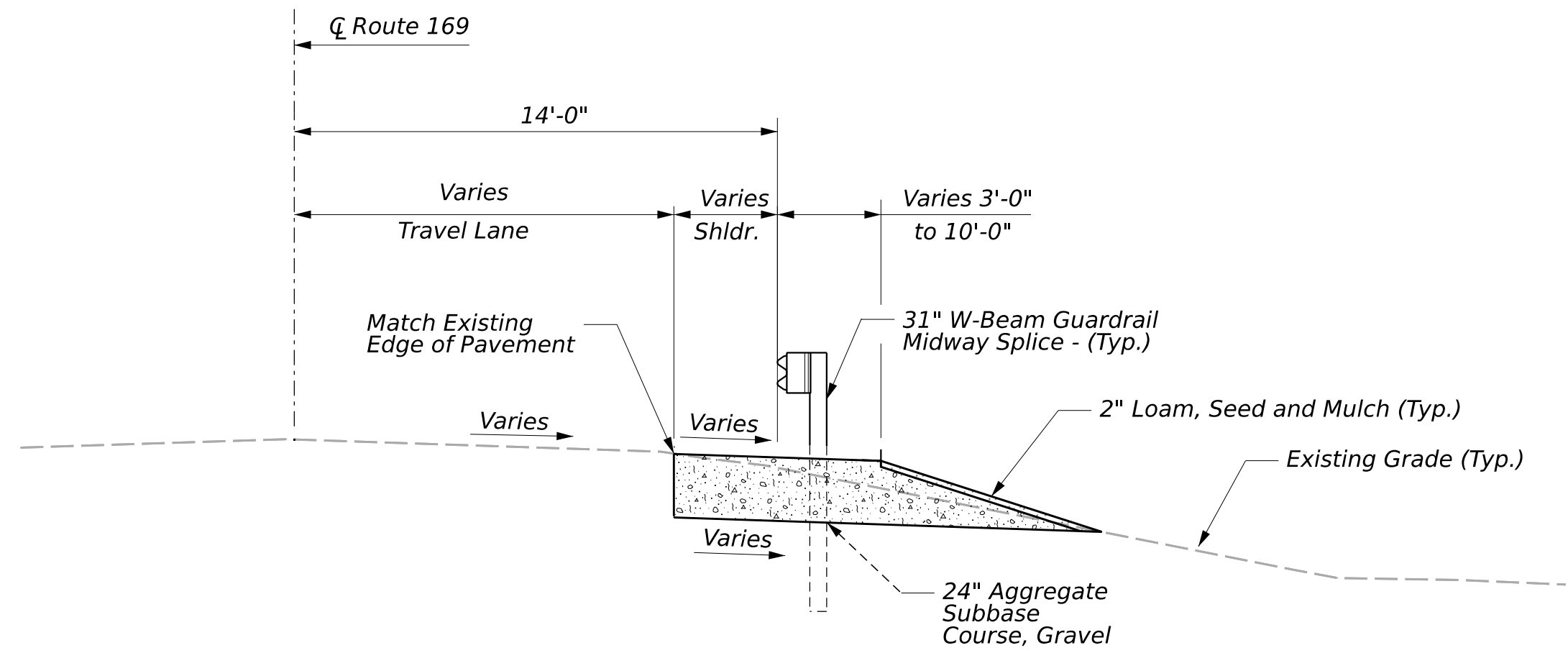
Maine Department of Transportation										Project: North Bridge Bundle (NMB), Bridge #004		Boring No.: BP-18R3MB-00	
Soll/Rock Exploration Log										Location: 18-R3, ME		WIN: 027270.00	
US CUSTOMARY UNITS													
Driller:		Seaboard Drilling, LLC			Elevation (ft.):		588.31		Auger ID/OD:		4 in		
Operator:		Eric Baron			Datum:		NAVB88		Sampler:		N/A		
Logged By:		Ryan Nagle			Rig Type:		Diedrich D-50 (DN1367)		Hammer Wt./Fall:		N/A		
Date Start/Finish:		4/25 3/18/25-4/45 3/18/25			Drilling Method:		SSA		Core Barrel:		N/A		
Boring Location:		N1623561.03 E12261845.92			Casing ID/OD:		N/A		Water Level:		N/A		
Hammer Efficiency Factor: 1.0				Hammer Type:				Automatic ☐ Hydraulic ☐ Rope & Cathead ☐					
Penetration: S = Split Spoon Sample SS = Solid Stem Auger HSA = Hollow Stem Auger H = Hammer Core WSP = Wireline Pushed W = Flat Wire Shear Test WP = Pocket Penetrometer ME = Miscellaneous Track-type Shear Test Attempts				R = Rock Core Sample SSA = Solid Stem Auger HSA = Hollow Stem Auger H = Hammer Core WSP = Weight of 140lb. Hammer WDC = Weight of Rods or Casing WCL = Weight of One Turn				S = Penetration First wire unspooled shear strength test S _{avg} = Log average unspooled shear strength test Q _u = Unspooled Compressive Strength (psi) Unspooled = Raw First Split Sample Hammer Efficiency = Rig Specific Inverse Calibration Value N = SP Unrecorded Corrected for Hammer Efficiency N _u = Hammer Efficiency Factor (NMB-unrecorded)					
Sample Information										Visual Description and Remarks		Laboratory Testing Results/ASHTO and Unified Class.	
Depth (ft.)	Sample No.	Pen. Rec. (ft.)	Sample Depth (ft.)	Blow Count (60 lbs. or 140 lb.)	Unrecorded	N/A	Casing ID/OD	SP	SP				
										Augered to 19 ft bgs without sampling. (" of Asphalt Pavement).		0.3	
5										Driller Notes: 4 ft bgs is bottom of either base gravel or bottom of frost.			
10										Driller Notes: drilling became harder at 11 ft bgs.			
15										Driller Notes: potential weathered rock at 13.5 ft bgs due to drilling getting a lot harder.		13.5	
20										Bottom of Exploration at 19.0 feet below ground surface. Boring solidified in fill gravel, to bottom of pavement, and patched with cold patch asphalt.		19.0	
25													
Remarks:													
1. Hammer Efficiency factor provided by Seaboard and taken from "2024AP00175-Seaboard-SPT Energy Calibration" by GR Engineers Inc., dated 10/23/2024. 2. AS-drilled boring locations and ground surface elevations were obtained by WSP in the electronic file "Borings.dgn" on 5/6/25.													
Stratification lines represent approximate boundaries between soil types/ transitions may be gradual.													
* water level readings have been made at times and under conditions stated. Gravelometer fluctuations may occur due to conditions other than those present at the time measurements were made.													
										Page 1 of 1			
										Boring No.: BP-18R3MB-104			



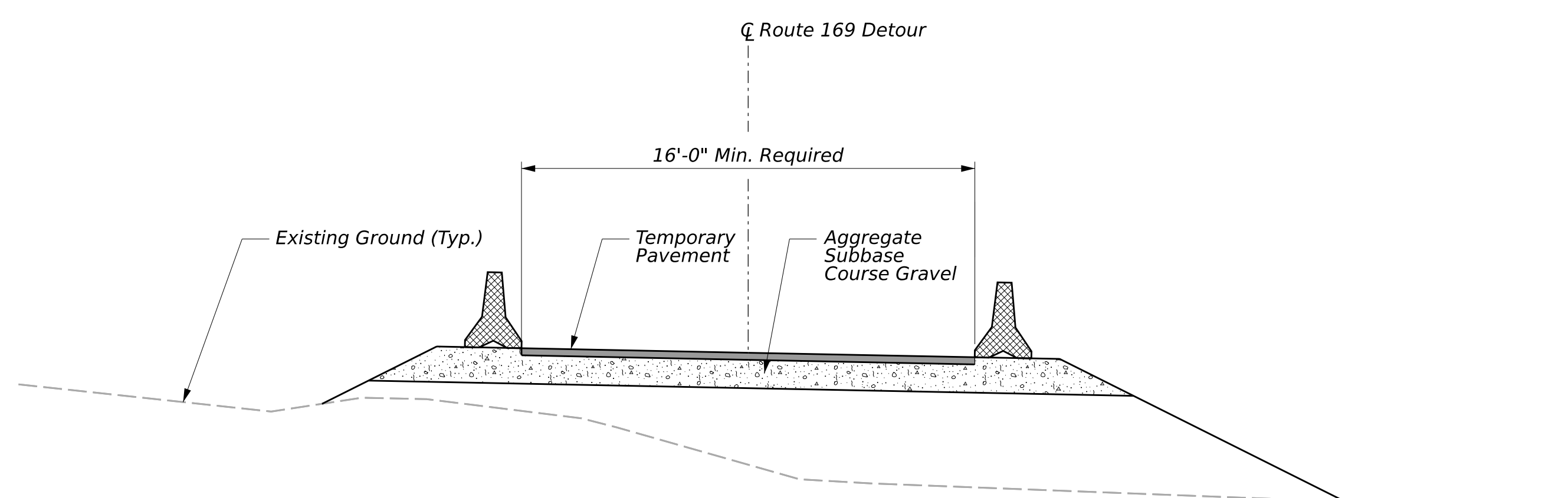
TYPICAL ROADWAY SECTION
Sta. 13+35 to 14+70



TYPICAL APPROACH MILL AND OVERLAY SECTION
Sta. 12+85.00 to Sta. 13+35.00
Sta. 14+70.00 to Sta. 15+48.00



TYPICAL SHOULDER RECONSTRUCTION SECTION
Sta. 11+81.35 to Sta. 12+85.00 RT
Sta. 15+48.00 to Sta. 16+24.50 LT



CONCEPTUAL DETOUR SECTION

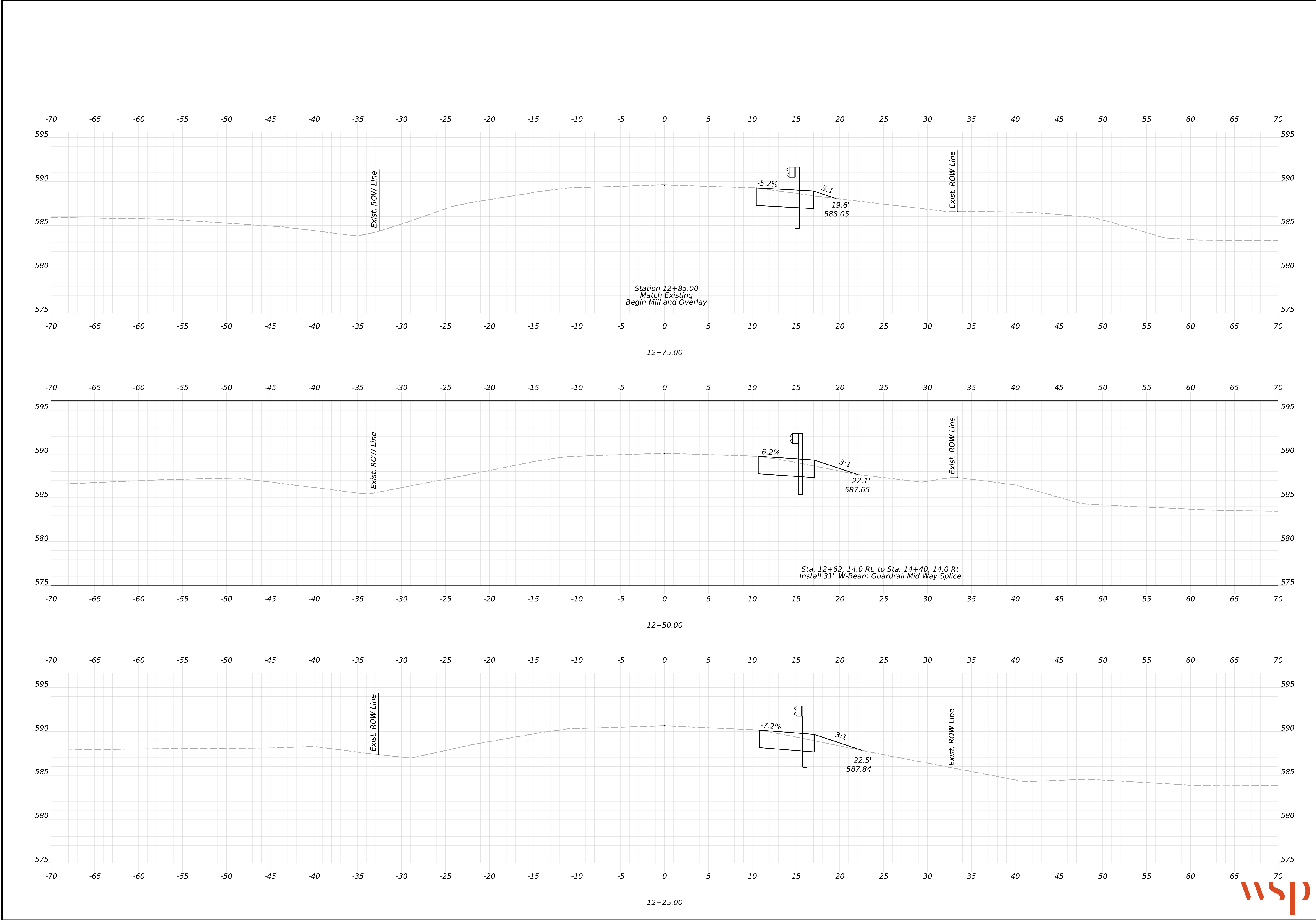
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Federal Project No. 2727000
WIN 27270.00

PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-D-DETAILED01	DESIGN-D-DETAILED02	DESIGN-D-DETAILED03	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
RICH MYERS	E. WILLIAMS	T. HIGGINSON								
BY	W. GERRHOLD	T. HIGGINSON								
DATE	7/2026	7/2026								
SIGNATURE										
P.E. NUMBER										
DATE										

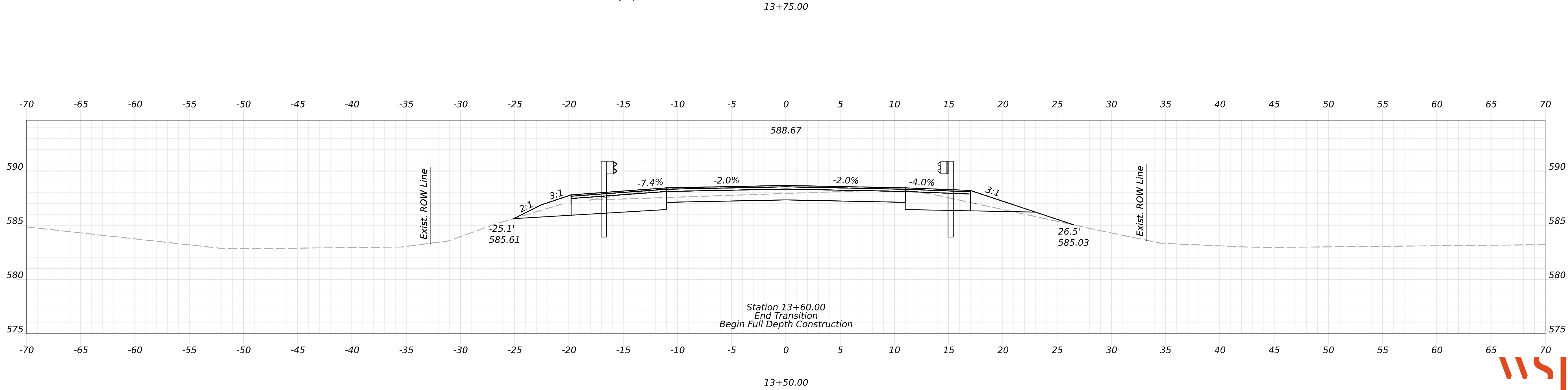
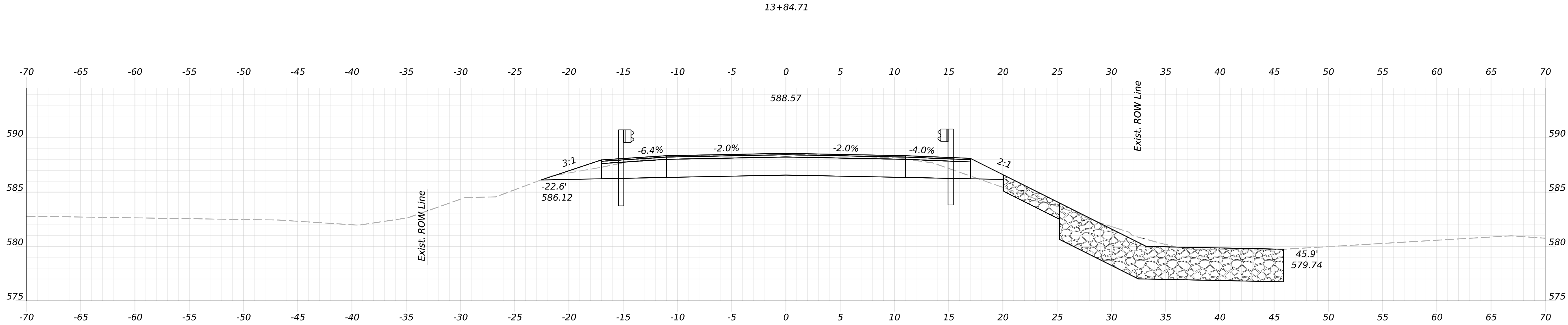
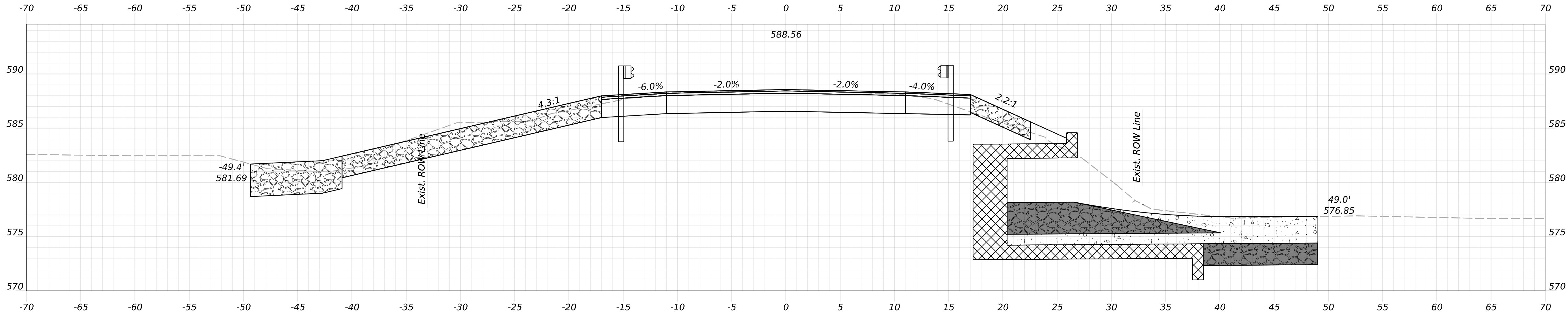
BIG MEADOW BRIDGE NO. 0064 CROSSING MEADOW BROOK T8 R3 NBPP
TYPICAL SECTIONS

SHEET NUMBER
8
OF 21



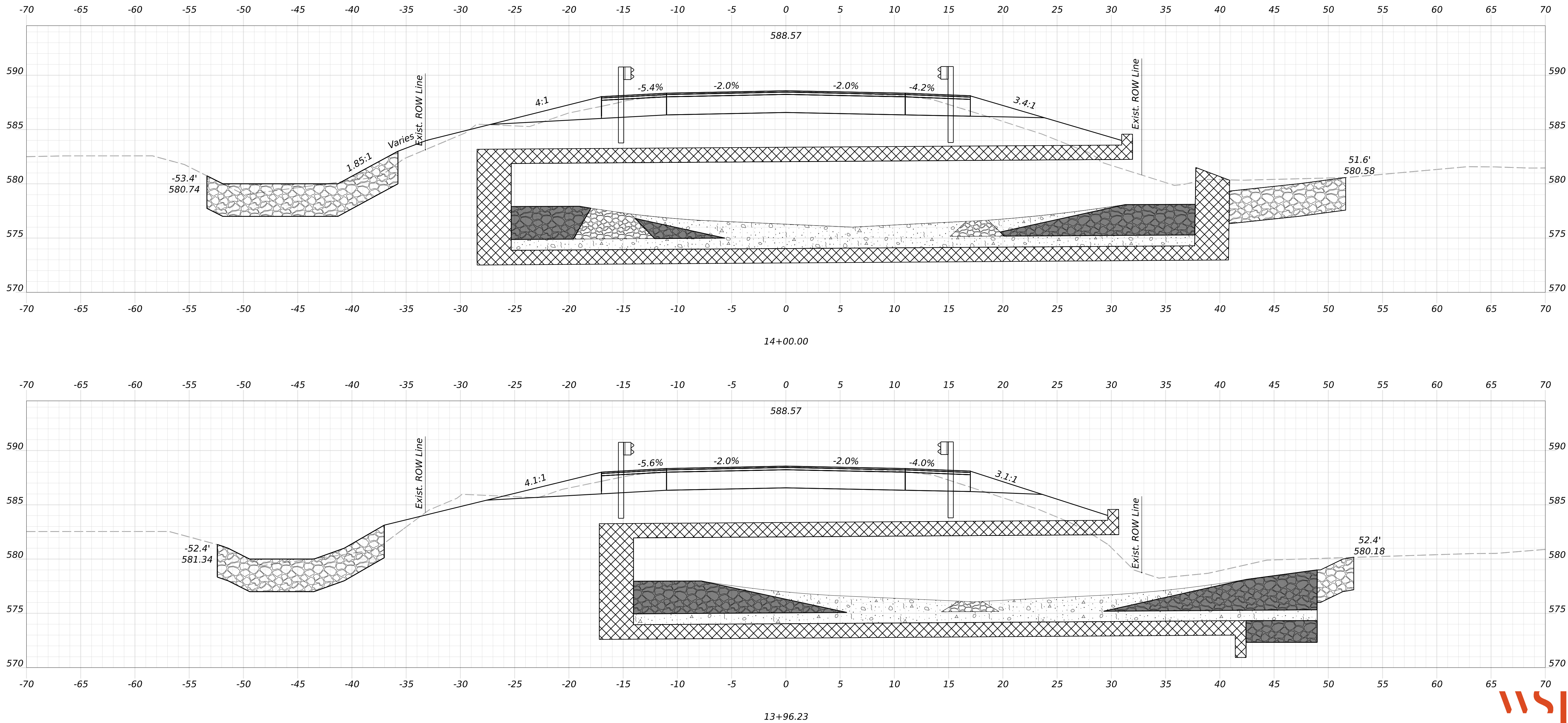


STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
Federal Project No. 2727000		WIN 27270.00	
BIG MEADOW BRIDGE NO. 0064		CROSS SECTIONS	
CROSSING MEADOW BROOK		T8 R3 NBPP	
SHEET NUMBER		10	
		OF 21	
PROJ. MANAGER	RICH MYERS	BY	E. WILLIAMS
DESIGN-DETAILED	T. HIGGINSON	DATE	7/2026
CHECKED-REVIEWED			
DESIGN-DETAILED2			
DESIGN-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SIGNATURE		P.E. NUMBER	
		DATE	

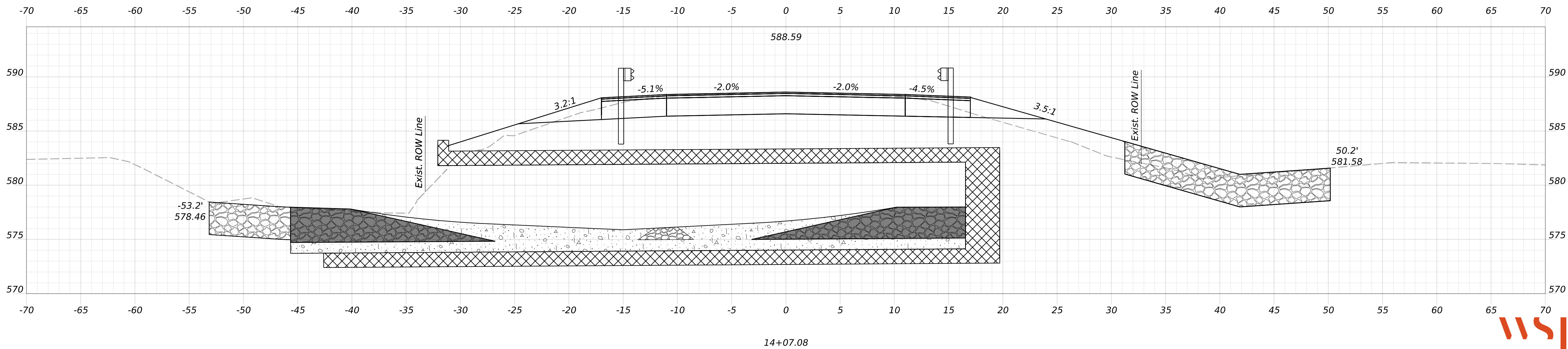
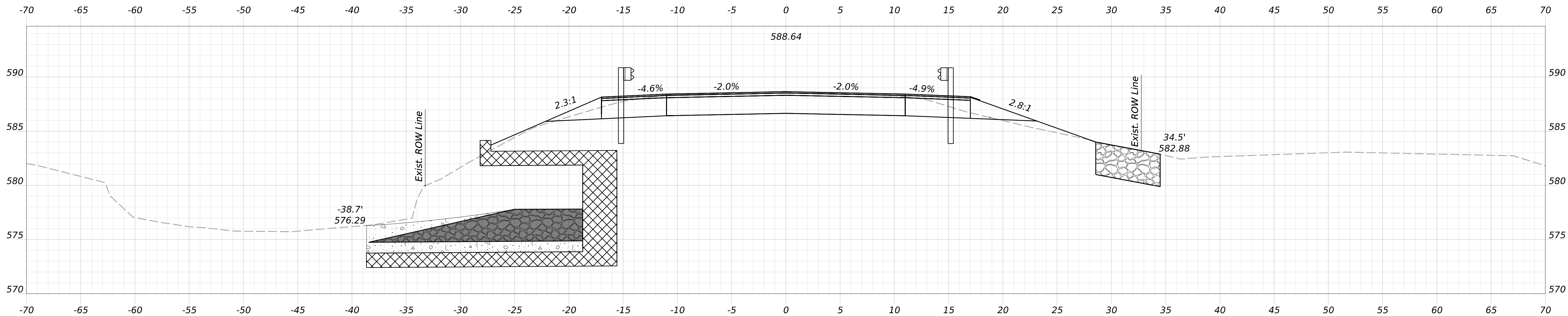


PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-D2-DETAILED2	DESIGN-D3-DETAILED3	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
RICH MYERS	E. WILLIAMS	T. HIGGINSON							
BY	E. WILLIAMS	T. HIGGINSON							
DATE	7/2026	7/2026							
SIGNATURE									
P.E. NUMBER									
DATE									

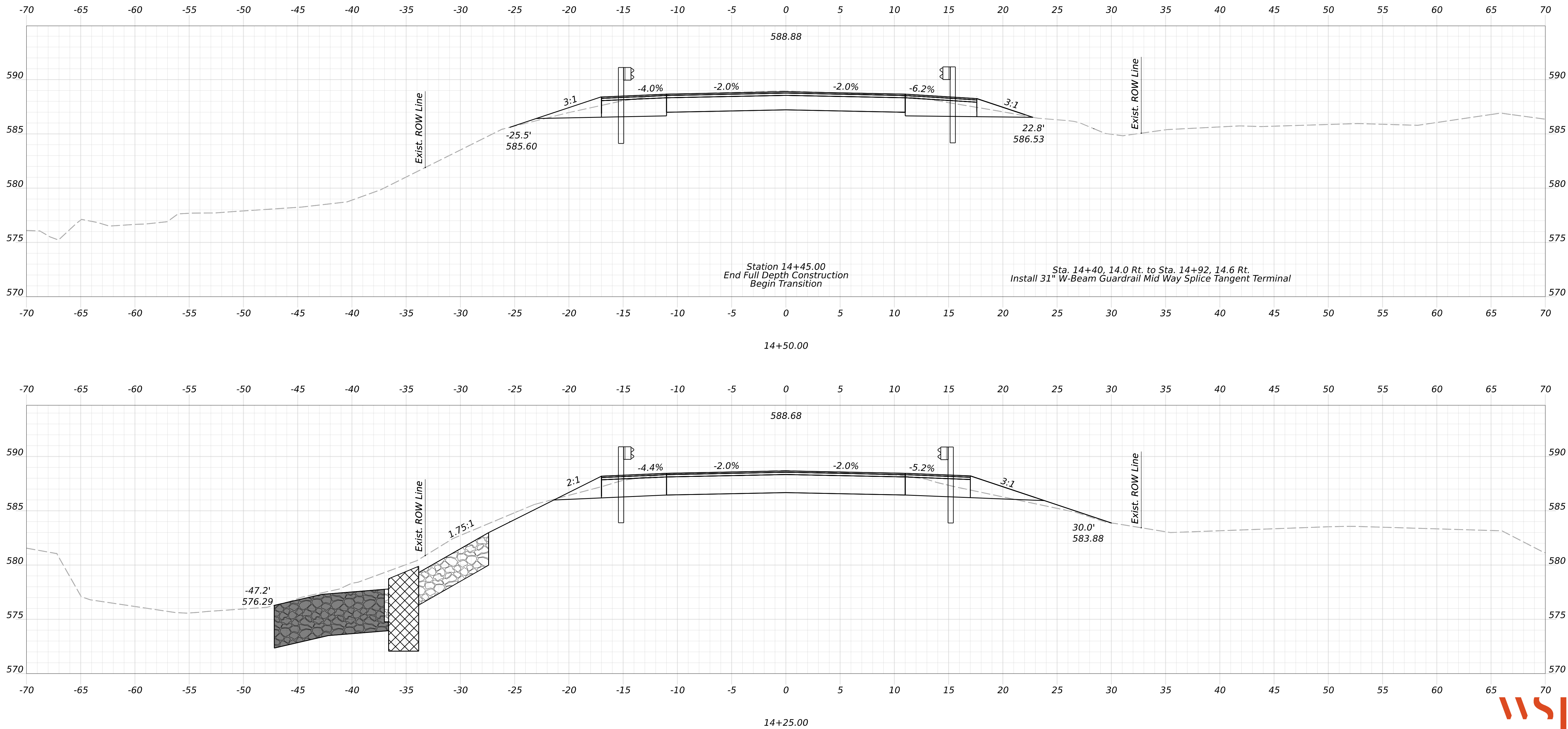




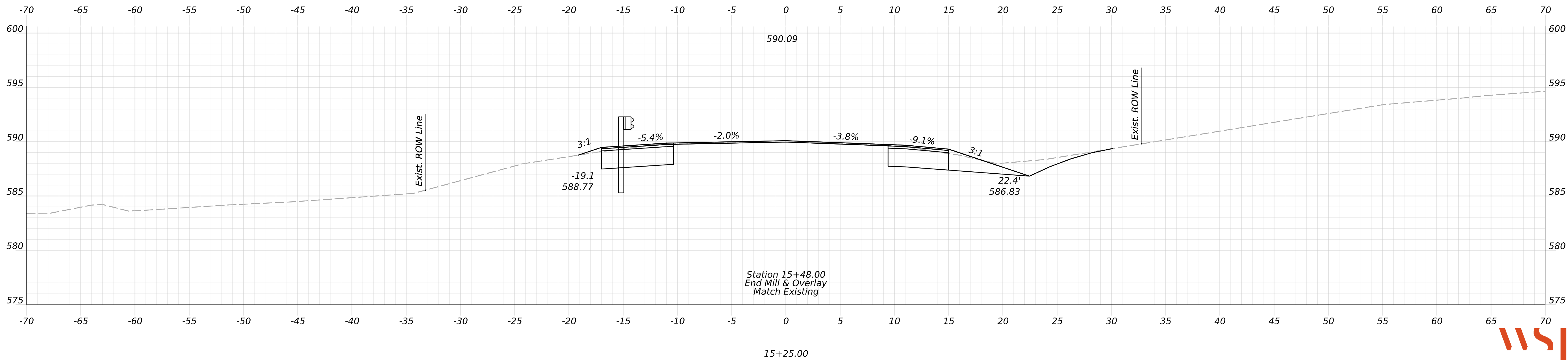
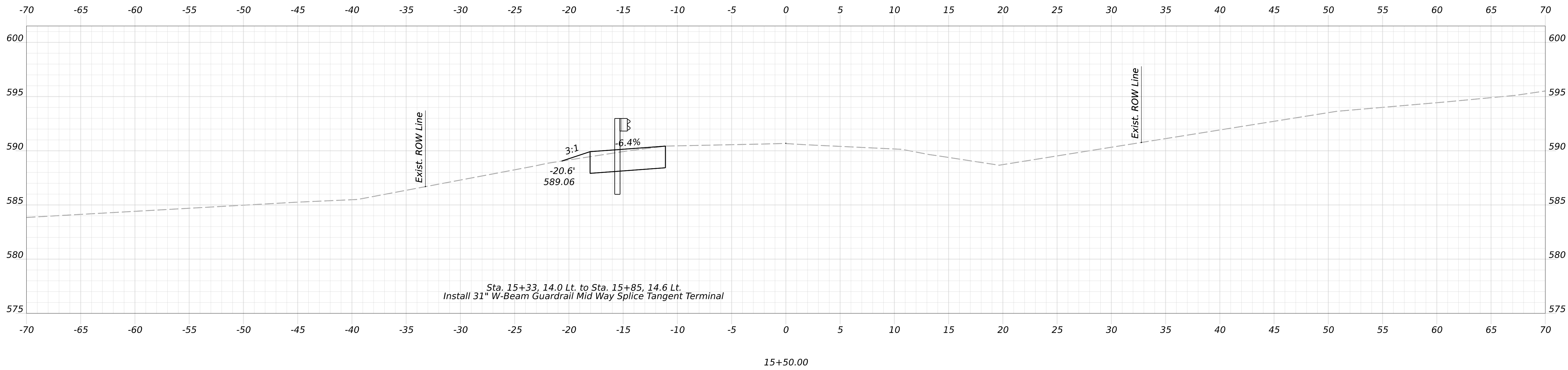
BIG MEADOW BRIDGE NO. 0064 CROSSING MEADOW BROOK T8 R3 NBPP		SHEET NUMBER		13		OF 21		STATE OF MAINE			
								DEPARTMENT OF TRANSPORTATION			
CROSS SECTIONS		PROJ. MANAGER		REVIEWERS		BY		DATE		SIGNATURE	
		DESIGN-DETAILED		E. WILLIAMS		E. WILLIAMS		7/2026			
		CHECKED-REVIEWED		T. HIGGINSON		T. HIGGINSON		7/2026		P.E. NUMBER	
		DESIGN-2-DETAILED2									
		DESIGN-3-DETAILED3									
		DESIGN-4-DETAILED4									
		DESIGN-5-DETAILED5									
FIELD CHANGES								DATE			
										Federal Project No. 2727000	
										WIN 27270.00	



PROJ. MANAGER	RICH MYERS	BY	DATE
DESIGN-DETAILED	E. WILLIAMS	E. WILLIAMS	7/2026
CHECKED-REVIEWED	T. HIGGINSON	T. HIGGINSON	7/2026
DESIGN-D-DETAILED2			
DESIGN-D-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-D-DETAILED2	DESIGN-D-DETAILED3	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
RICH MYERS	E. WILLIAMS	T. HIGGINSON							
BY	E. WILLIAMS	T. HIGGINSON							
DATE	7/2026	7/2026							
SIGNATURE									
P.E. NUMBER									
DATE									

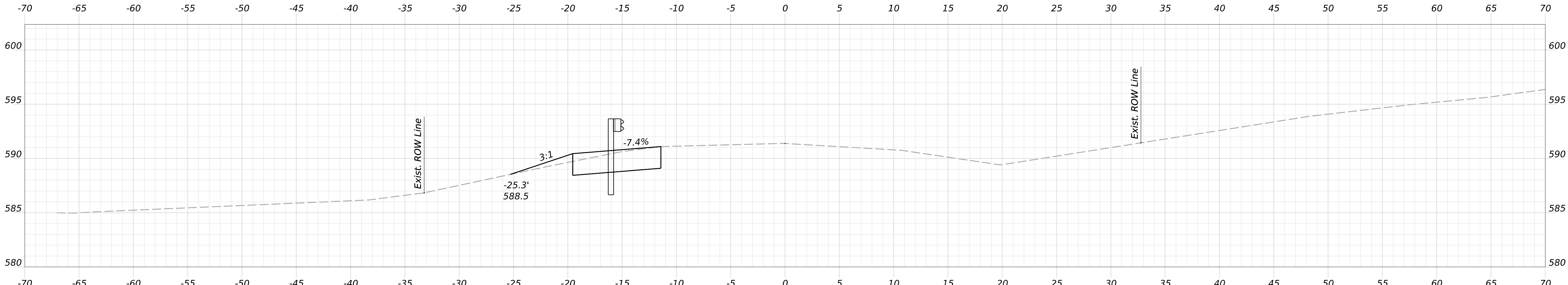
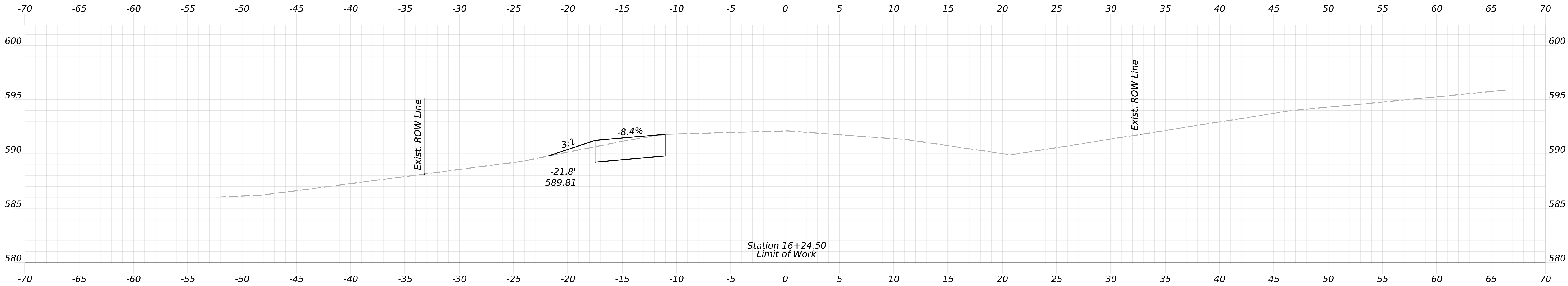


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Federal Project No. 2727000
WIN 27270.00

PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
RCH MYERS	E. WILLIAMS	T. HIGGINSON	7/2026	E. WILLIAMS	7/2026			
	DESIGN-DETAILED2							
	DESIGN-DETAILED3							
	REVISIONS 1							
	REVISIONS 2							
	REVISIONS 3							
	REVISIONS 4							
	FIELD CHANGES							

BIG MEADOW BRIDGE NO. 0064 CROSSING MEADOW BROOK T8 R3 NBPP	CROSS SECTIONS
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SHEET NUMBER
17
OF 21

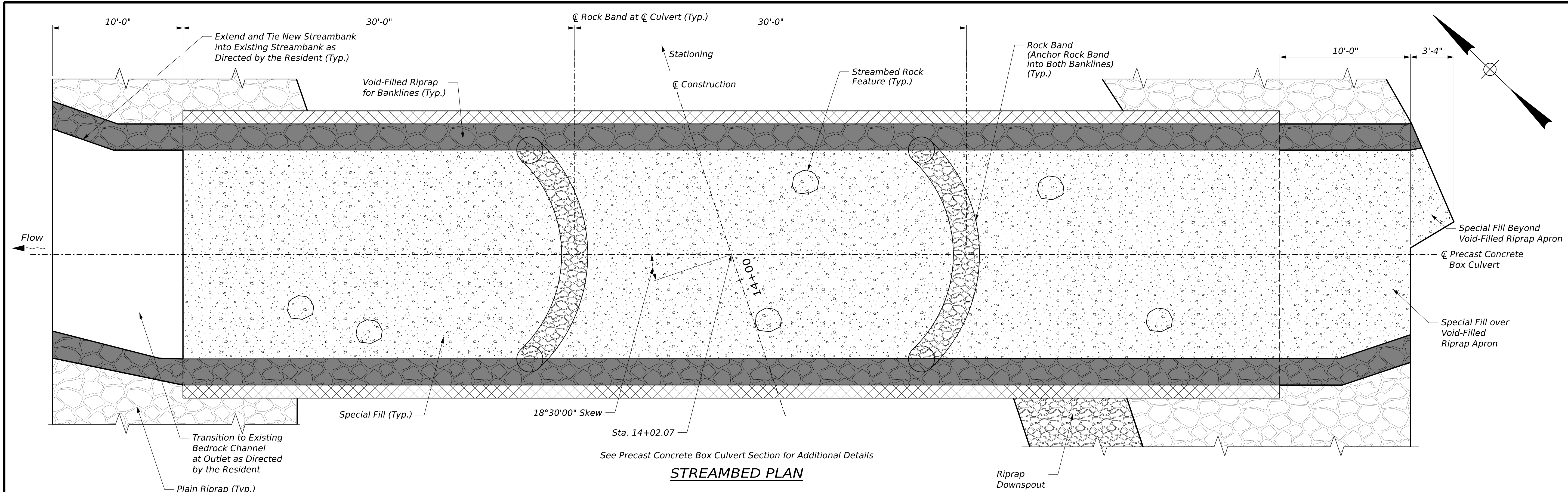


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Federal Project No. 2727000
WIN 27270.00

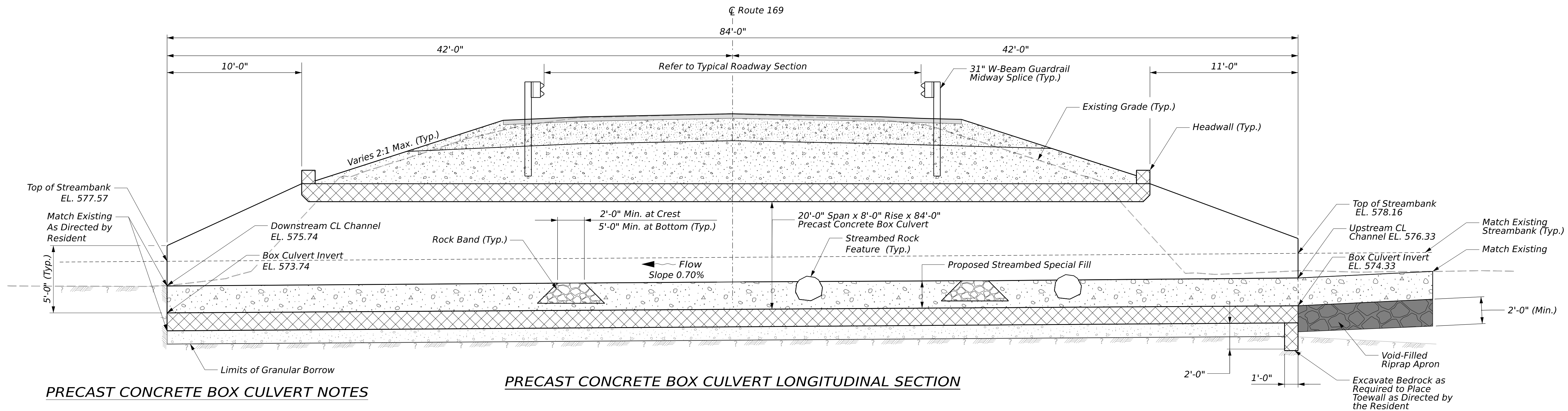
PROJ. MANAGER	RCH MYERS	BY	DATE
DESIGN-DETAILED	E. WILLIAMS	E. WILLIAMS	7/2026
CHECKED-REVIEWED	T. HIGGINSON	T. HIGGINSON	7/2026
DESIGN-DETAILED2			
DESIGN-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BIG MEADOW BRIDGE NO. 0064 CROSSING MEADOW BROOK T8 R3 NBPP	CROSS SECTIONS
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SHEET NUMBER
18
OF 21



STREAMBED PLAN



PRECAST CONCRETE BOX CULVERT LONGITUDINAL SECTION

PRECAST CONCRETE BOX CULVERT NOTES

- The precast units shall be designed to carry construction loadings with a minimum fill cover of 18 inches over the top of the units.
- In accordance with Standard Specification Subsection 534.04, Precast Structural Concrete, the Contractor shall submit design calculations for the precast structure to the Department for review. The calculations shall demonstrate that the factored bearing pressures at the Strength Limit and Service Limit States do not exceed the factored geotechnical bearing resistances provided in the project Geotechnical Design Report.
- Install standard membrane waterproofing over the top and to 12 inches down the exterior sides of the precast units.
- The Contractor shall maintain the excavation so that the box culvert and culvert bedding layer are installed in-the-dry. Groundwater shall be controlled by pumping from sumps or other dewatering systems selected by the Contractor. Cofferdams may be required to divert flow away from the excavation during construction.

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

Federal Project No. 2727000

WIN 27270.00

PROJECT MANAGER

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN-3-D-Detailed

DESIGN-3-D-Detailed

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

BY

M. CARBON

T. POLSON

T. POLSON

T. POLSON

T. POLSON

T. POLSON

T. POLSON

T. POLSON

T. POLSON

DATE

7/2026

7/2026

SIGNATURE

P.E. NUMBER

DATE

BIG MEADOW BRIDGE NO. 0064

CROSSING MEADOW BROOK

T8 R3 NBPP

PRECAST CONCRETE BOX CULVERT DETAILS (1 OF 2)

SHEET NUMBER

19

OF 21

