

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Ninth Edition 2020.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2019) AADT	770
Future (2039) AADT	850
DHV - % of AADT	11
Design Hour Volume	89
Heavy Trucks (% of AADT)	6
Heavy Trucks (% of DHV)	6
Directional Distribution (% of DHV)	63
18 kip Equivalent P 2.0	20
18 kip Equivalent P 2.5	19
Design Speed (mph)	45

HYDROLOGIC DATA

Drainage Area	12 sq mi
Design Discharge (Q50)	760 cfs
Check Discharge (Q100)	875 cfs
Headwater Elevation (Q1.1)	29.03 ft
Headwater Elevation (Q25)	31.89 ft
Headwater Elevation (Q50)	32.35 ft
Headwater Elevation (Q100)	32.82 ft
Discharge Velocity (Q1.1)	3.53 fps
Discharge Velocity (Q50)	7.56 fps
Discharge Velocity (Q100)	8.09 fps

MATERIALS

Concrete:	
Precast	Class "P"
All Other	Class "A"
Reinforcing:	
Plain Reinforcing Steel	ASTM A615, Grade 60

BASIC DESIGN STRESSES

Concrete	f 'c = 4,000 psi
Precast Concrete	f 'c = 5,000 psi
Reinforcing Steel	f y = 60,000 psi

GORHAM-SCARBOROUGH
CUMBERLAND COUNTY
MITCHELL BRIDGE
OVER
NONESUCH RIVER
MITCHELL RD.
FEDERAL AID PROJECT NO. 2223800
PROJECT LENGTH 0.076 mi.
BRIDGE NO. 0216

LIST OF DRAWINGS

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UTILITIES

Town of Gorham

MAINTENANCE OF TRAFFIC

Bridge will be closed to traffic during construction with traffic detoured.

PROJECT LOCATION	Mitchell Bridge (#0216) carrying Mitchell Rd. over the Nonesuch River, located 0.04 miles northwest of the Scarborough town line, in Cumberland County. Lat./Long. 43°37'15.94" N 70°38'38.99" W
PROGRAM AREA	Highway - Bridge Traditional
OUTLINE OF WORK	Bridge Culvert Replacement

022238.00 WIN 022238.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT INFORMATION

PROGRAM	BRIDGE
PROJECT MANAGER	JULIE BRASK
DESIGNER	ERIN BREWER
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

GORHAM-SCARBOROUGH
MITCHELL BRIDGE

TITLE SHEET

SHEET NUMBER
1
OF 21

APPROVED

DATE

COMMISSIONER

CHIEF ENGINEER

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

Garrett A. Gustafson
15553
12-4-24

Garrett A. Gustafson
15553
12-6-24

Garrett A. Gustafson
15553
12-6-24

[illegible]

GENERAL CONSTRUCTION NOTES

1. For easements, construction limits, and right of way lines, refer to the Right of Way Map.

2. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.

3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

4. Existing signs within the Project limits shall be removed and reset as directed by the Resident. Payment for removal and reinstallation of existing signs will be considered incidental to the Contract. No separate payment will be made.

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

6. 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.

7. All embankment material, except as otherwise shown, placed below EL. 32.35 shall be Granular Borrow meeting the requirements of Standard Specifications Subsection 703.9, Granular Borrow, for Material for Underwater Backfill. Backfill material for the precast box culvert shall conform with the requirements for Granular Borrow for Underwater Backfill with a maximum aggregate size of 4 inches per Standard Spec 534.

8. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

9. *Erosion Control Mix* may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with *Standard Specifications Section 619, Mulch*. Payment will be made under *Pay Item 619.14, Erosion Control Mix*.

10. Place a 24 inch wide strip of Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.

11. Guardrail posts as shown in the Standard Details shall be modified from the indicated length of 7 feet to a length of 8 feet with an embedment of 5.25 feet. Payment will be considered incidental to the guardrail pay items. Guardrail posts over the Box Culvert shall be modified as shown on Top Mounted Guardrail System Details sheet.

12. A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.

13. Where it is apparent that runoff will cause continual erosion, Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Plain Riprap shall be constructed after paving and shoulder work is completed. Payment will be made under the appropriate Contract items.

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

Box Culvert Headwalls

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

16. 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.

17. Reports on hydrology and/or hydraulics applicable to the bridge site may be accessed at the MaineDOT web address. The reports are based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

18. The project geotechnical report titled: Geotechnical Design Report, Mitchell Bridge Culvert Replacement, Bridge No. 0216, Gorham, Maine, dated October 2024, may be accessed at the MaineDOT web address.

19. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.

20. 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:

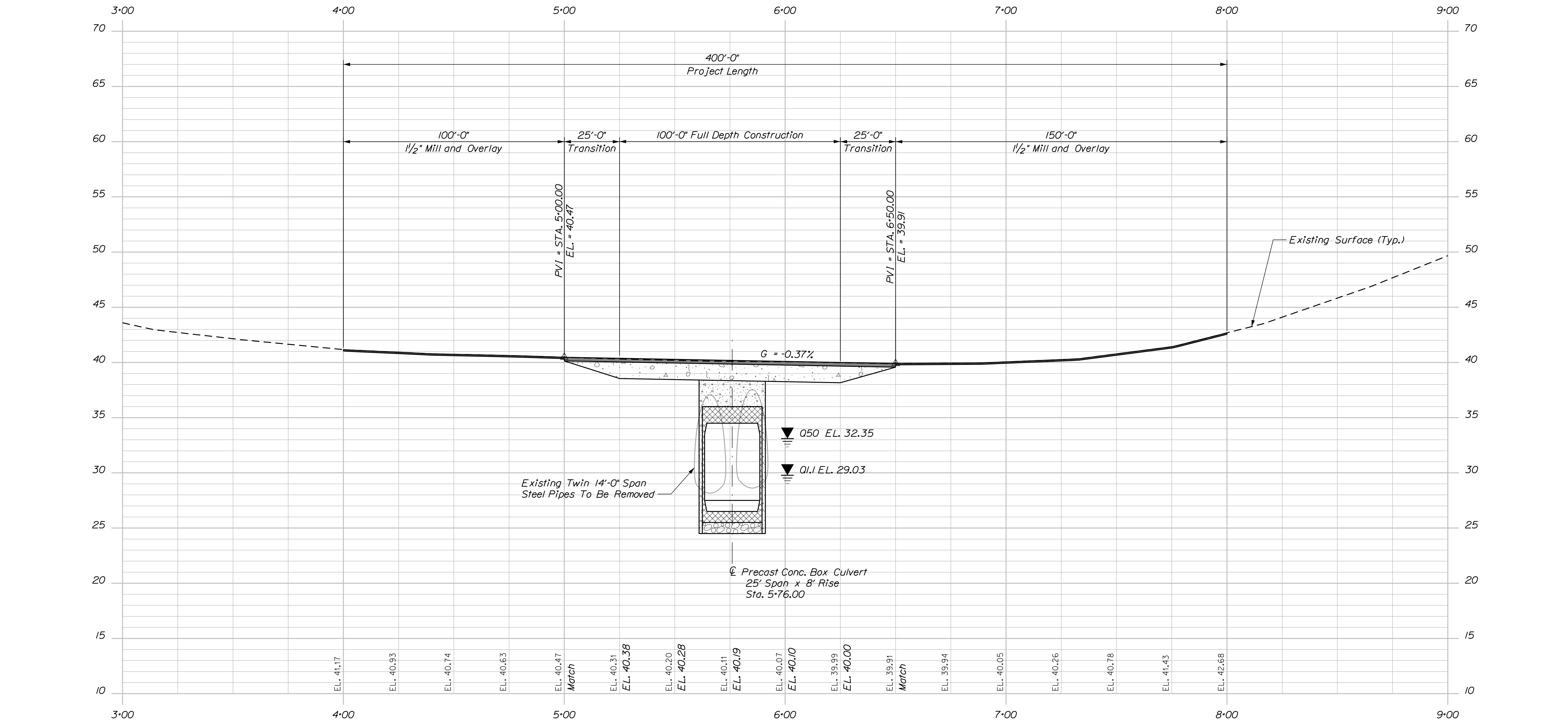
a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

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

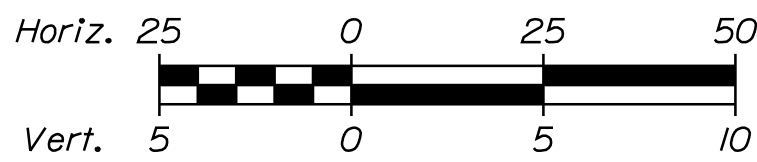
c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation and Time.

21. Parcel(s) #1, #2, #3, and #4 are held in reserve as indicated in Special Provision 104 General Rights and Responsibilities (Reserved Limits)

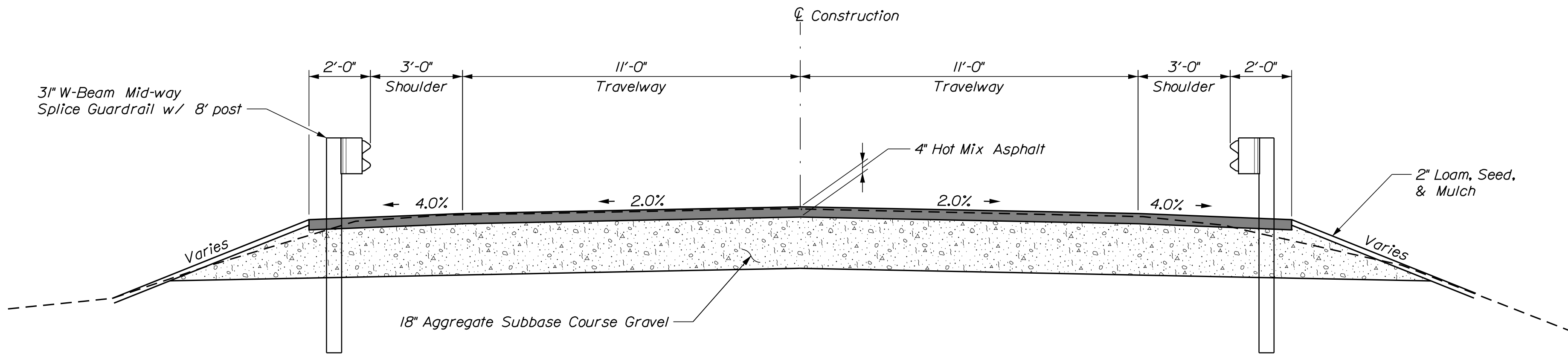
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	ESTIMATED QUANTITIES AND GENERAL CONSTRUCTION NOTES				DESIGN-DETAILED	EDB	B/JN	08/2024
					CHECKED-REVIEWED	GAC	DOC	08/2024
					DESIGN2-DETAILED2			
					DESIGN3-DETAILED3			
					REVISIONS 1			P.E. NUMBER
				REVISIONS 2				
				REVISIONS 3				
				REVISIONS 4				DATE
				FIELD CHANGES				
STATE OF MAINE DEPARTMENT OF TRANSPORTATION 02223800 BRIDGE NO. 0216 WIN 022238.00 BRIDGE PLANS								



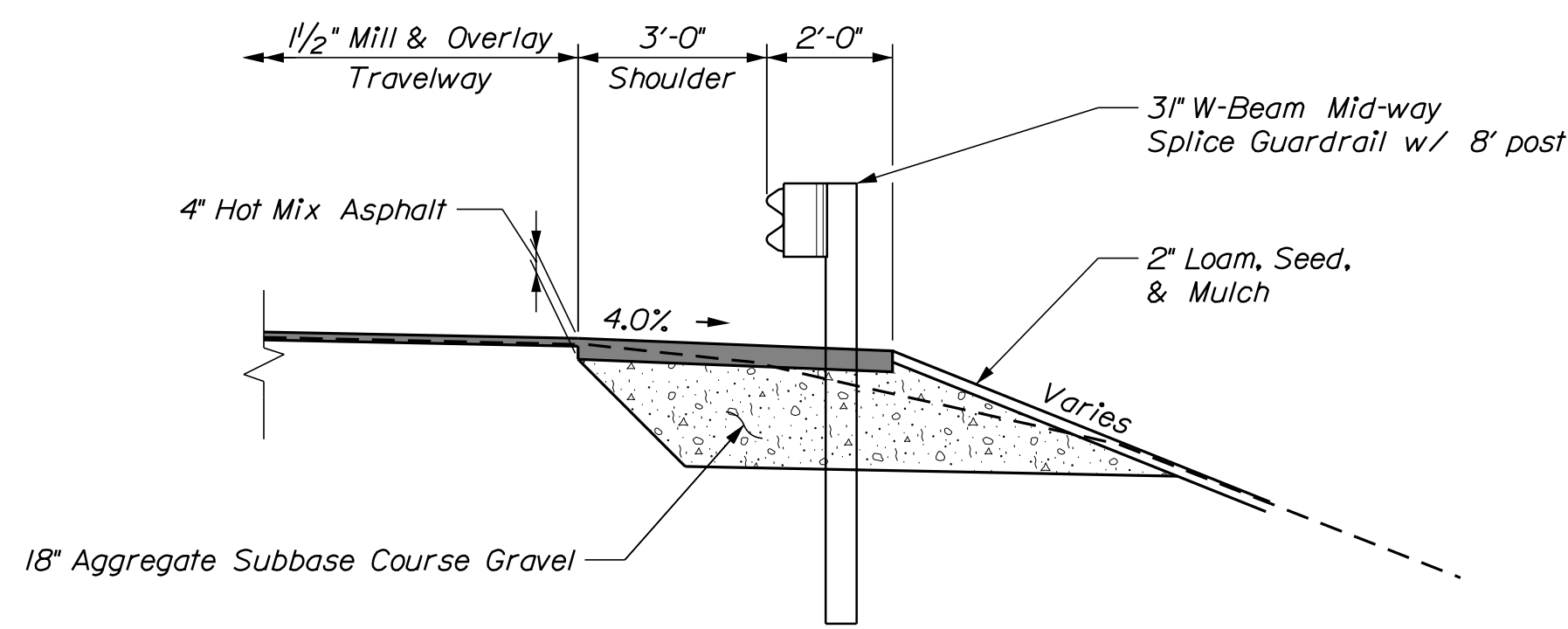
PROFILE



Scale of Feet



APPROACH DESIGN SECTION



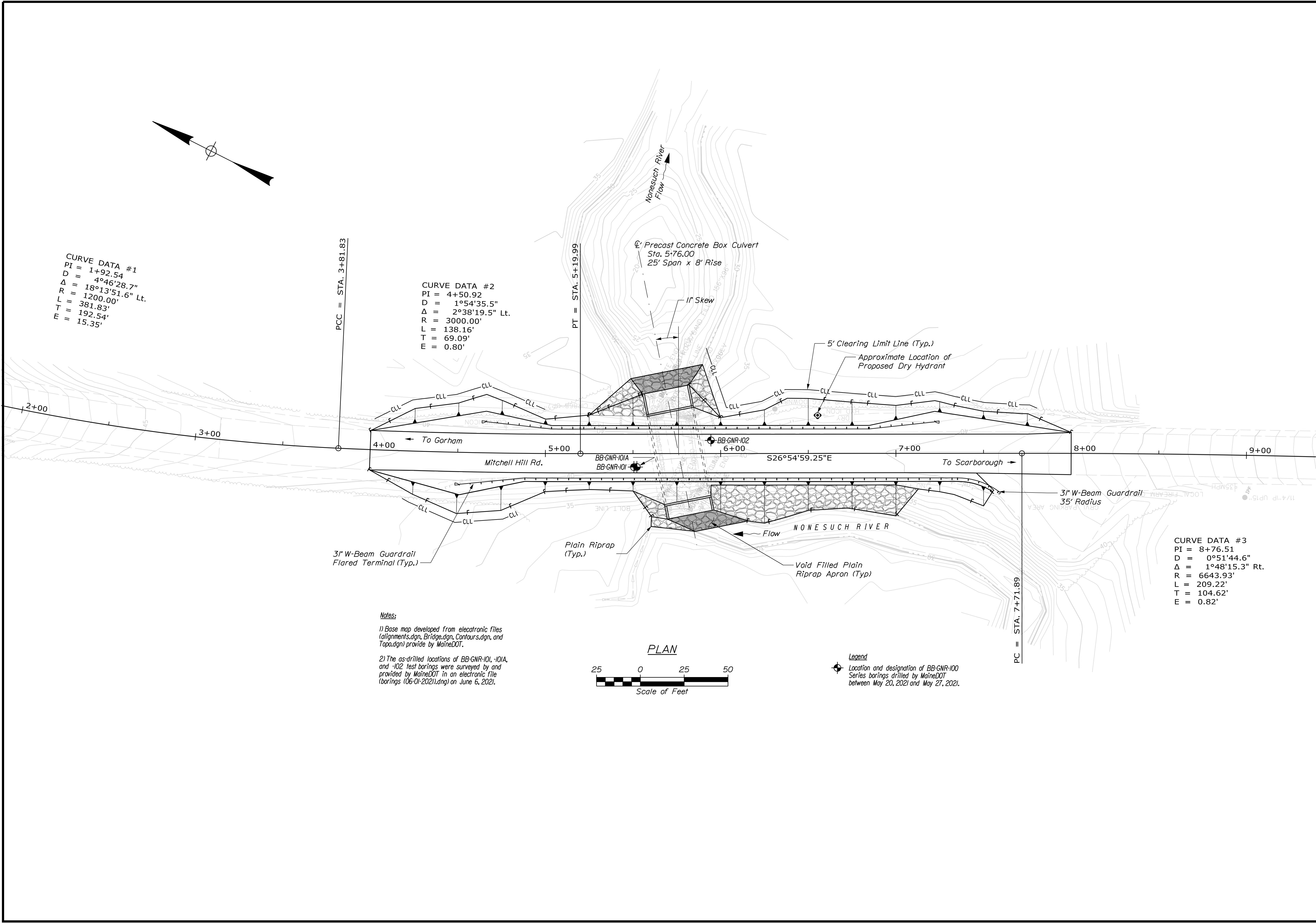
SHOULDER RECONSTRUCTION SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02223800
WIN
022238.00
BRIDGE NO. 0216
BRIDGE PLANS

PROJ. MANAGER	JULIE BRASK	BY	DATE
CHECKED-DETAILED	EDB	BUN	08/2024
DESIGNED-DETAILED	DCE	DCE	08/2024
DESIGNED-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

MITCHELL BRIDGE
NONESUCH RIVER
GORHAM-SCARBOROUGH CUMBERLAND COUNTY
PROFILE

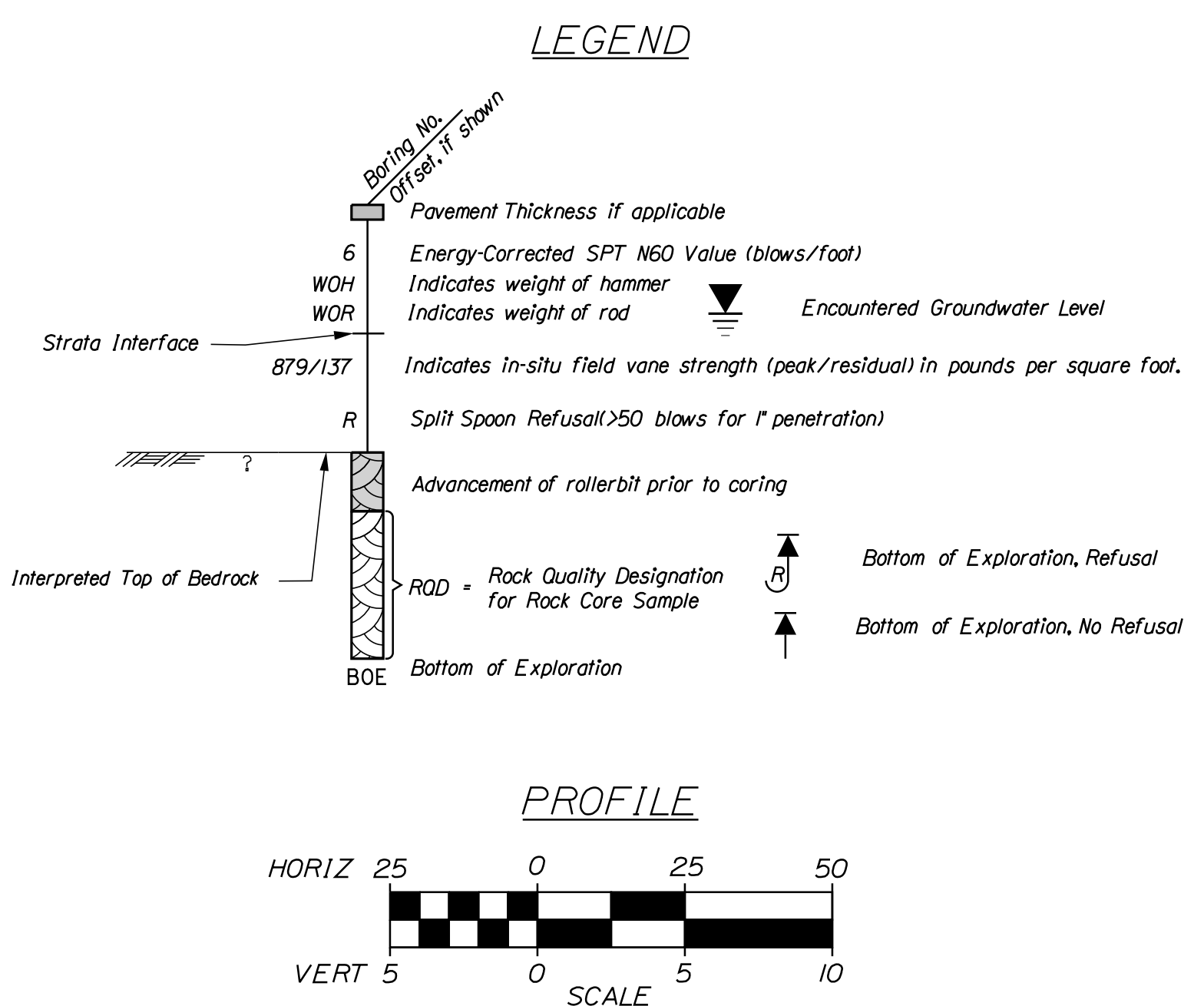
SHEET NUMBER
4
OF 21



SHEET NUMBER 5 OF 21	MITCHELL BRIDGE NONESUCH RIVER GORHAM-SCARBOROUGH CUMBERLAND COUNTY				PROJ. MANAGER	DEVAN EATON	BY	DATE
	BORING LOCATION PLAN				DESIGN-DETAILED	EDB	BUN	08/2024
					CHECKED-REVISED	GAC	DCE	08/2024
					DESIGN2-DETAILED2	B.CARDALI	T. WHITE	10/2024
					DESIGN3-DETAILED3			
					REVISIONS 1			
					REVISIONS 2			
					REVISIONS 3			
					REVISIONS 4			
					FIELD CHANGES			
STATE OF MAINE DEPARTMENT OF TRANSPORTATION 								

MITCHELL BRIDGE NONESUCH RIVER GORHAM-SCARBOROUGH CUMBERLAND COUNTY	DATE		BY		DATE	
	SIGNATURE		SIGNATURE		SIGNATURE	
	P.E. NUMBER		P.E. NUMBER		P.E. NUMBER	
	DATE		DATE		DATE	

SHEET NUMBER	
5	
OF 21	



Notes:

- 1) Base Profile developed from electronic file (Profile.dgn) provide by MaineDOT.
- 2) The as-drilled locations of BB-GNR-101, -101A, and -102 test borings were surveyed by and provided by MaineDOT in an electronic file (borings 06-01-2021.dng) on June, 6, 2021.
- 3) This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

Maine Department of Transportation						Project: Mitchell Bridge #0216 carries Mitchell Hill Road over Nonesuch Location: Gorham, Maine		Boring No.: BB-GNR-101	
Soil/Rock Exploration Log US CUSTOMARY UNITS								WIN: 22238.00	
Drillers: WalneDOT		Elevation (ft.): 39.9		Auger 10/ODI: 5" Solid Stem					
Operator: Daggett/Jay		Datum: NAVD88		Sampler: Standard Split Spoon					
Logged By: J. Monahan		Rig Type: CME 45C		Hammer Wt./Fall: 140#/30"					
Date Start/Finish: 5/20/2021/5/25/2021		Drilling Method: Cased Wash Boring		Core Barrel: NO-2"					
Boring Location: S45W, 7.7 ft Rt.		Casing 10/ODI: NW-3"		Water Level#: 10.0' Ft bgs.					
Hammer Efficiency Factor: 0.49		Hammer Type: Automatic SS Hydraulic		Pipe & Cathrod ID:					
Bolt/Torque = Split Spoon Sample S = Split Spoon Sample U = Thin Wall Tube Sample M = unconsolidated Split Spoon Sample Attempt V = Field Vane Shear Test PP = Pocket Penetration MDL = Weight of Rods or Casing N/A = None Observed		# = Rock Core Sample SS = Solid Stem Auger SA = Soil from Steel Auger RC = Roller Cone MW = Weight of Wet Material N/A = None Observed		S_u(lab) = Undrained Shear Strength (psf) S_u(field) = Undrained Shear Strength (psf) q_c = Unconfined Compressive Strength (psi) N-value = Blow Count per Foot Hammer Efficiency Factor = Rig Specific Small Calibration Value Ng = SPI Uncorrected (corrected for Hammer Efficiency) K = Plasticity Index LL = Liquid Limit PI = Plasticity Index G = Grain Size Analysis C = Compression Test					
		Sample Information		Visual Description and Remarks		Laboratory Testing Results/ASTM and Unified Class			
Depth (ft.)	Sample No.	Pen./Blow, f/in	Casing Depth (ft.)	Blow / 6 in. Shank Length (ft) or ROD (%)	N-value	Casing Blows	Elevation (ft.)	Grain Log	
75-80	R2	60/60	75.50 - 80.50	ROD = 67%			-35.4		
80							-40.6		
85							-40.5		
90									
95									
Left 50 ft of NW Casing in bore hole on 5/20/2021, until we returned on 5/25/2021.									
Stratification lines represent approximate boundaries between soil types transitions may be gradual.								Page 2 of 2	
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present on the time measurements were made.								Boring No.: BB-GNR-101	

[illegible]

Maine Department of Transportation										Boring No.: BB-GNR-102	
Soll's Rock Exploration Log US CUSTOMARY UNITS											
Driller:		Mainedot		Elevation (ft.):	-40.0	Auger ID/DB:		5" Solid Stem		WIN: 22238.00	
Operator:		Daggett/Jay		Datum:		NAVOD88		Sampler:		Standard Split Spoon	
Logged By:		J. Monahan		Rig Type:		CME 45C		Hammer Wt./Ft/L:		14w/30"	
Date Start/Finish:		5/25-27/2021		Drilling Method:		Closed Wash Boring		Core Barrel:		NO-2"	
Boring Location:		5+94.4, 7.5 Ft Lr.		Casing ID/DB:		HW-4" & NW-3"		Water Level:		None Observed	
Hammer Efficiency Factor:		0.89		Hammer Type:		Automatic ☐ Hydraulic ☒		Rock or Coralloid ☐			
Definitions: - R = Rock CPT Sample - SA = Solid Stem Auger - SSA = Solid Stem Auger - WSA = Wash Stem Auger - BC = Rebar Core - W = Unconsolidated Thin Wall Tube Sample - WF = Pocket Penetration Meter - WDG = Weight of Rod or Casing - Wd = Unconsolidated Thick Wall Tube Sample - WRD = Weight of Rod or Casing - N = Non-penetrated - NP = Rebar at One Termination - Q_p = Penetration Test Area Operator Shear Strength (ASTM) - S_u(avg) = Lab area uniaxial Shear Strength (psi) - Q_u = Unconfined Compressive Strength (ksi) - U = Uncorroborated - Raw Field SP Result - Hammer Efficiency Factor = Rig Specific small Calibration Value - N = SP Unconsolidated Contractor for Hammer Efficiency - C = Sample Intactness Factor (0% to 100%) - WC = water Content, percent - L = Liquid Limit - P = Plastic Limit - PI = Plasticity Index - C = Grain Size Analysis - C = Loosest Gravel Size											
Sample Information											
Depth (ft.)	Sample No.	Ref./Spec. #	Sample Depth (feet)	Shave / C/P In. Shear Strength (lb/ft²)	SP RSD (%)	Unconsolidated	Nsg	Casting Issues	Excavation	Visual Description and Remarks	Laboratory Testing / ASHSTO Unified Class.
-70	100	24/24	75.00 ± 71.00	NDP/11/3/10	4	6	12			Grey, wet, medium stiff, SILT, some clay, some fine to medium sand, trace gravel (Marine Clay).	
							16				
							19				
							20				
-80							23				
							38.0			----- -78.0	
-90	11	19, 2/16	81.00 ± 82.40	13/19/30/30(1,2)	49	73	38			Brown, wet, very dense, fine to coarse SAND, some gravel, little silt, (Gracial Till).	
	R1	60.00 ± 87.10	R20 = 92%			No-2					
-95							42.7			Top of Bedrock at Elev. -42.7 ft. R1 Bedrock Block, Fine-grained, GRANULFS, very hard, fresh, joints are close to moderately spaced, low angle, fresh, planar, smooth, tight, with calcite infilling. Good Quality + Excellent (Bedrock Formation) R1: Core Times (minutes) 82 ~ 84.7 ft (1108) 84 ~ 86.7 ft (1129) 86 ~ 88.7 ft (1151) 88 ~ 90.7 ft (1150) 100% Recovery	
							47.7				
-100	Bottom of Excavation at 87.7 feet below ground surface.										
5/25/2021, left 25.0 Ft of casing in hole.											
Stratification Lines represent approximate boundaries between soil types; transitions may be gradual.											
* Aster level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present or the time measurements were made.											

Boring No.: BB-GNR-102

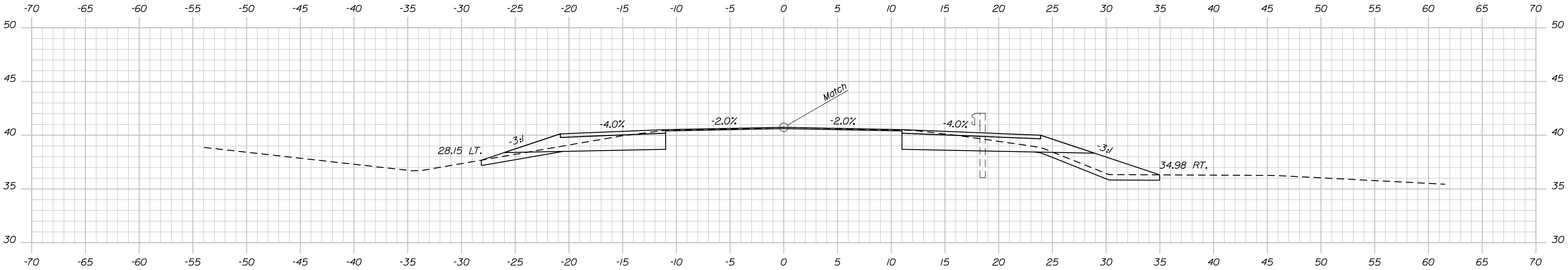
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Date:12/4/2024

Username: Brian.Nichols

Division: BRIDGE

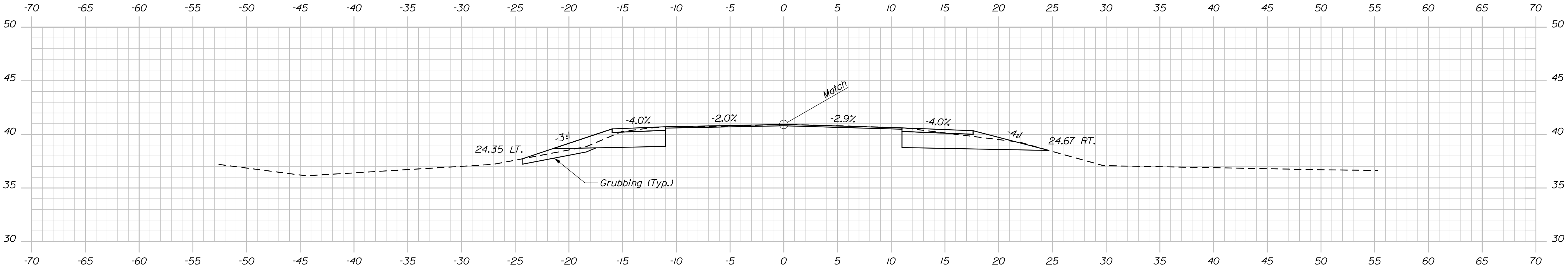
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Sta. 4+66 ± to Sta. 5+04 ±
Install Reflectorized Flexible Guardrail Marker (2)
Install 31" W-Beam Guardrail Flared Terminal

4+50.00

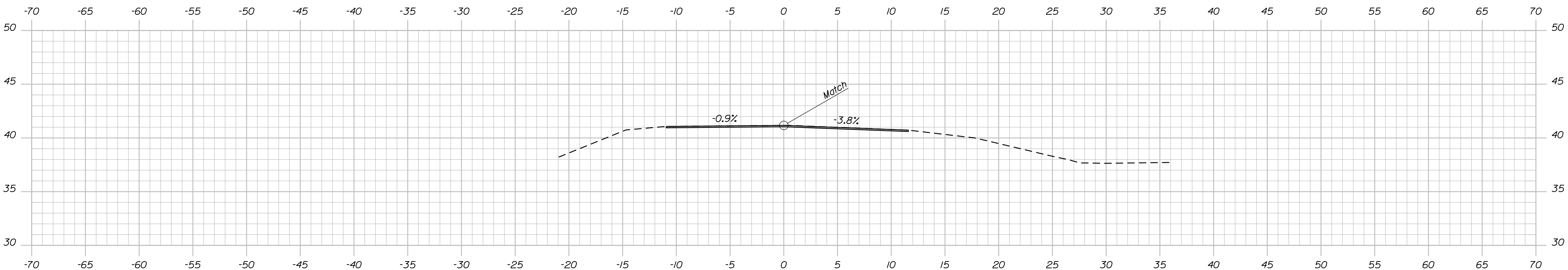
Sta. 4+51 ± to Sta. 4+88 ±
Install Reflectorized Flexible Guardrail Marker (2)
Install 31" W-Beam Guardrail Flared Terminal



24.35 LT.

Grubbing (Typ.)

4+25.00



4+00.00
MATCH EXISTING
BEGIN MILL & OVERLAY

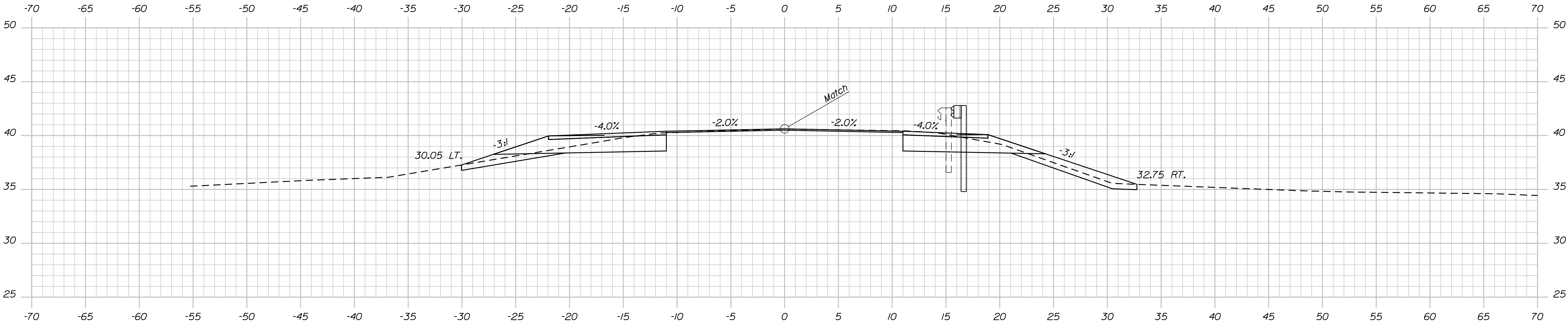
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		02223800		WIN		022238.00		BRIDGE NO. 0216		BRIDGE PLANS	
MITCHELL BRIDGE		NONESUCH RIVER		GORHAM-SCARBOROUGH CUMBERLAND COUNTY		CROSS SECTIONS		SHEET NUMBER		8		OF 21	
PROJ. MANAGER		JULIE BRASK		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		JOB		BIN		08/2024		SIGNATURE		P.E. NUMBER		DATE	
CHECKED-REVIEWED		GAS		DCE		08/2024		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED		DESIGN-DETAILED	
REVISIONS 1		REVISIONS 1		REVISIONS 1		REVISIONS 1		REVISIONS 1		REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2		REVISIONS 2		REVISIONS 2		REVISIONS 2		REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3		REVISIONS 3		REVISIONS 3		REVISIONS 3		REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4		REVISIONS 4		REVISIONS 4		REVISIONS 4		REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	

Date:12/4/2024

Username: Brian.Nichols

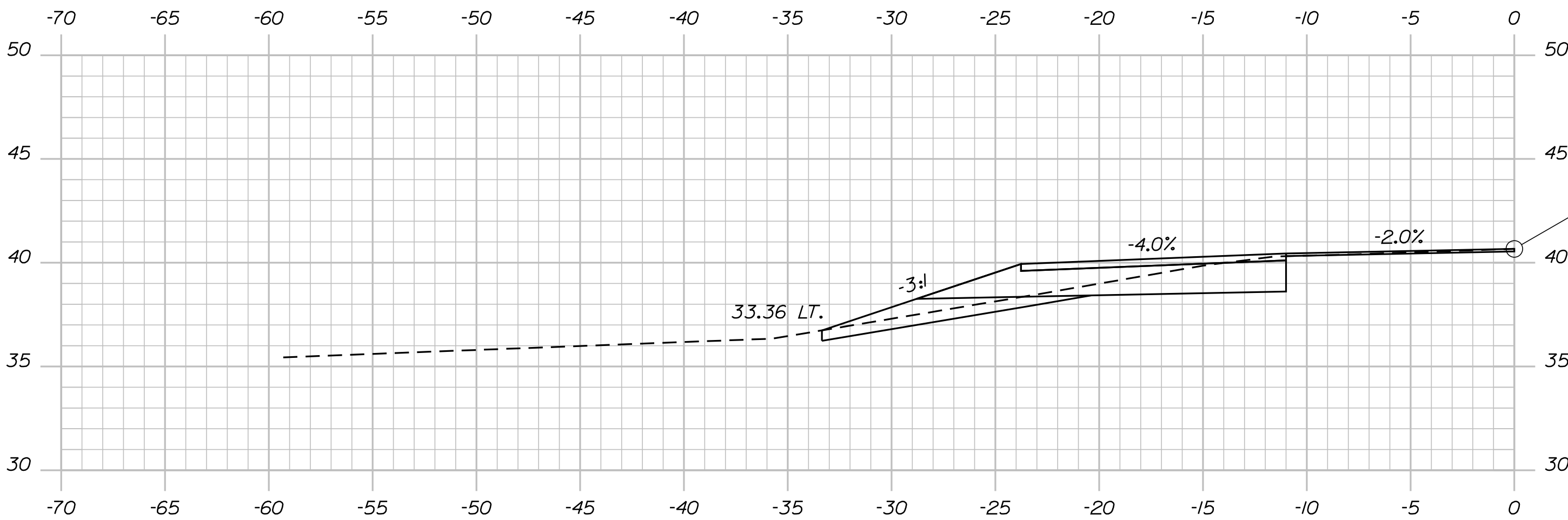
Division: BRIDGE

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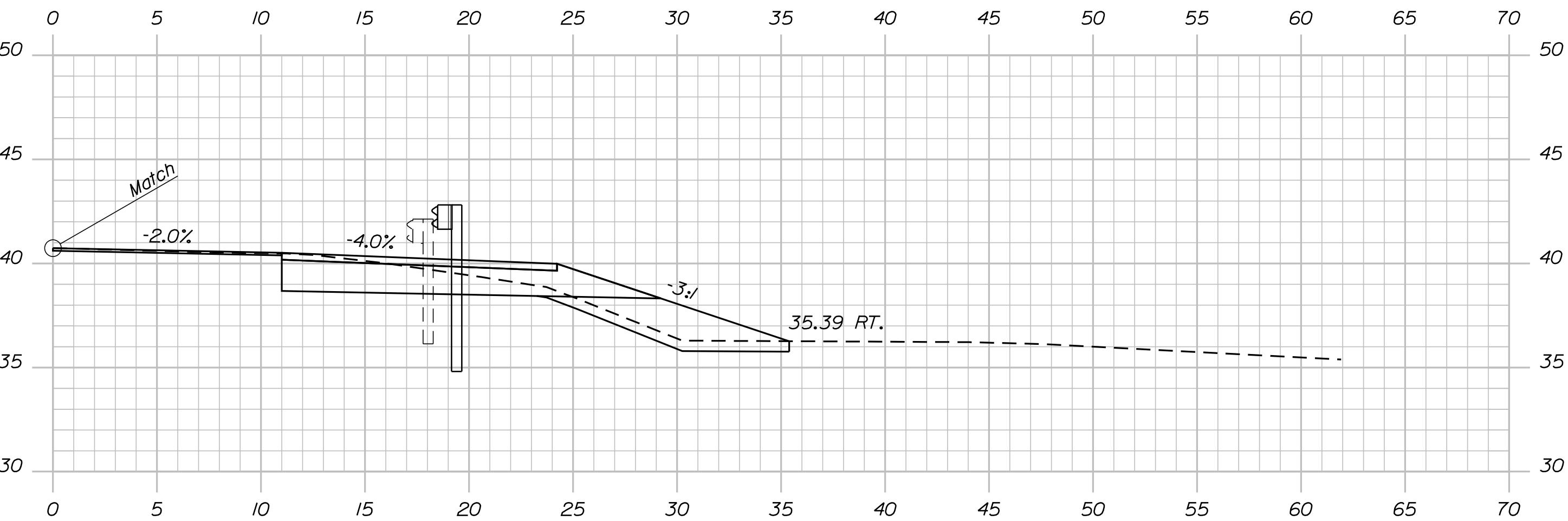


4+75.00

Sta. 4+88 ± to 7+35 ±
Install 256.3 LF 3" W-Beam Mid-way Splice Guardrail



4+65.98



4+51.30

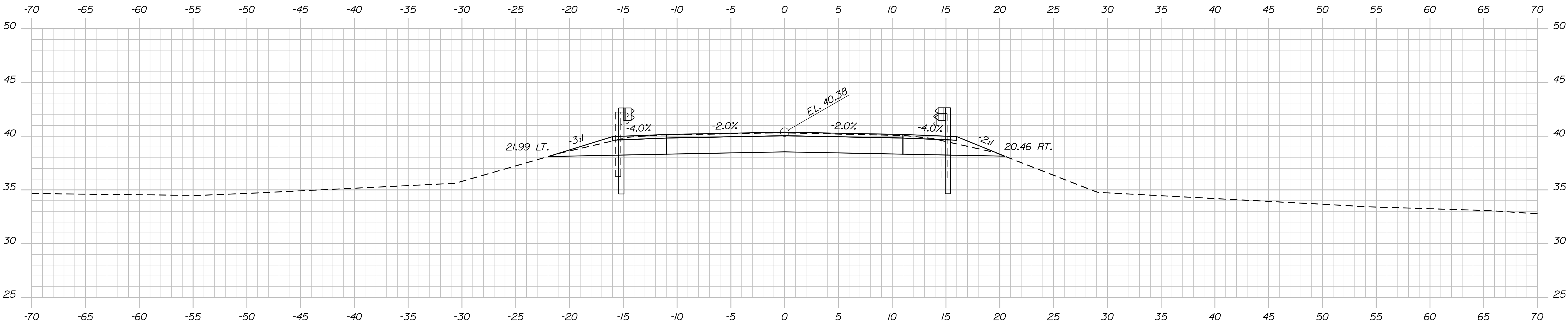
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MITCHELL BRIDGE		NONESUCH RIVER		GORHAM-SCARBOROUGH CUMBERLAND COUNTY		CROSS SECTIONS		SHEET NUMBER		9		OF 21	
PROJ. MANAGER		JULIE BRASK		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		EDB		BIN		08/2024							
CHECKED-REVIEWED		GAS		DCE		08/2024							
DESIGN-DETAILED													
REVISIONS 1													
REVISIONS 2													
REVISIONS 3													
REVISIONS 4													
FIELD CHANGES													

Date:12/4/2024

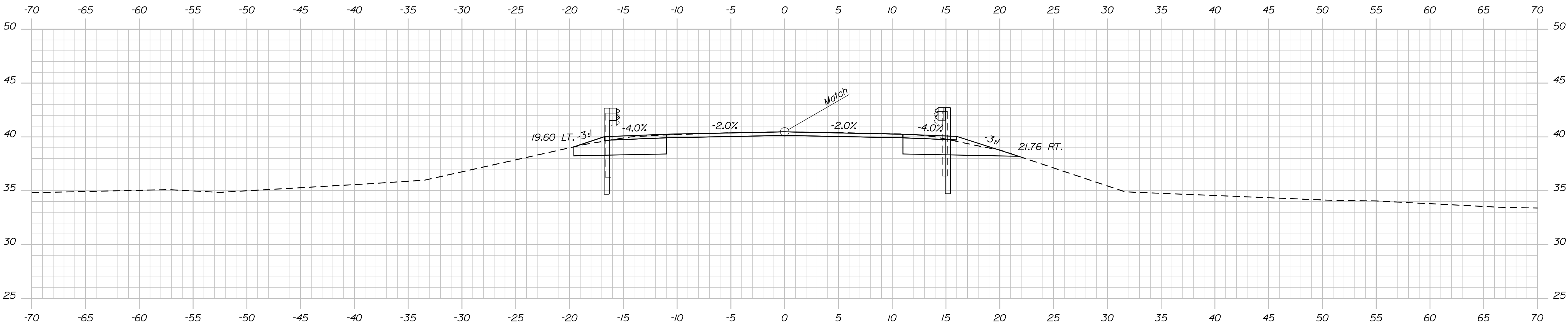
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Division: BRIDGE

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5+25.00
 END TRANSITION
 BEGIN PROJECT



Sta. 5+04 ± to 6+85 ±
 Install 171.8 LF 31" W-Beam Mid-way Splice Guardrail

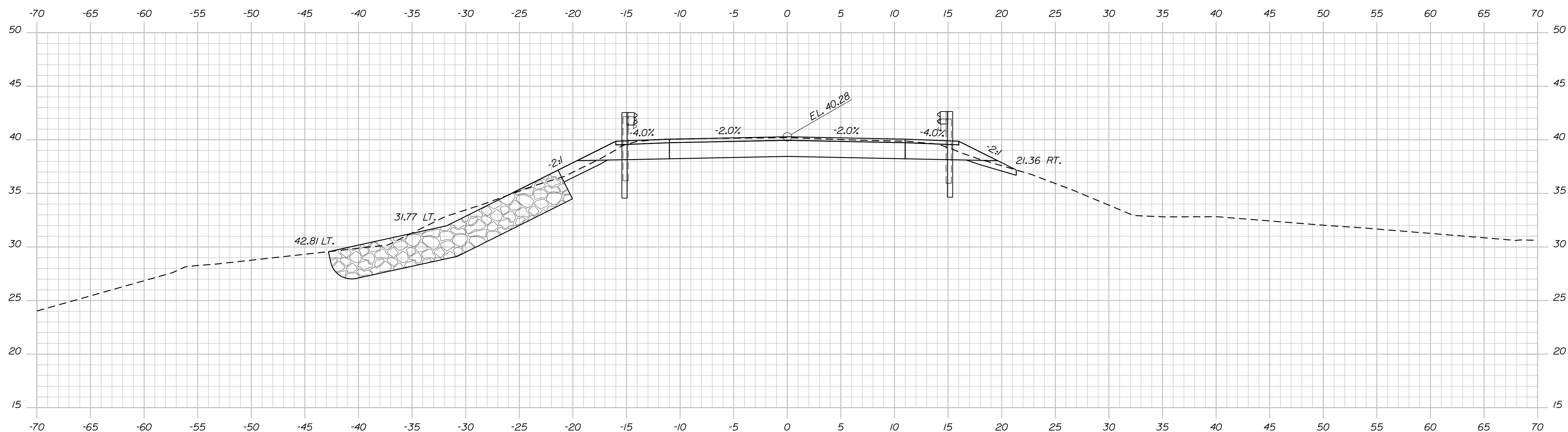
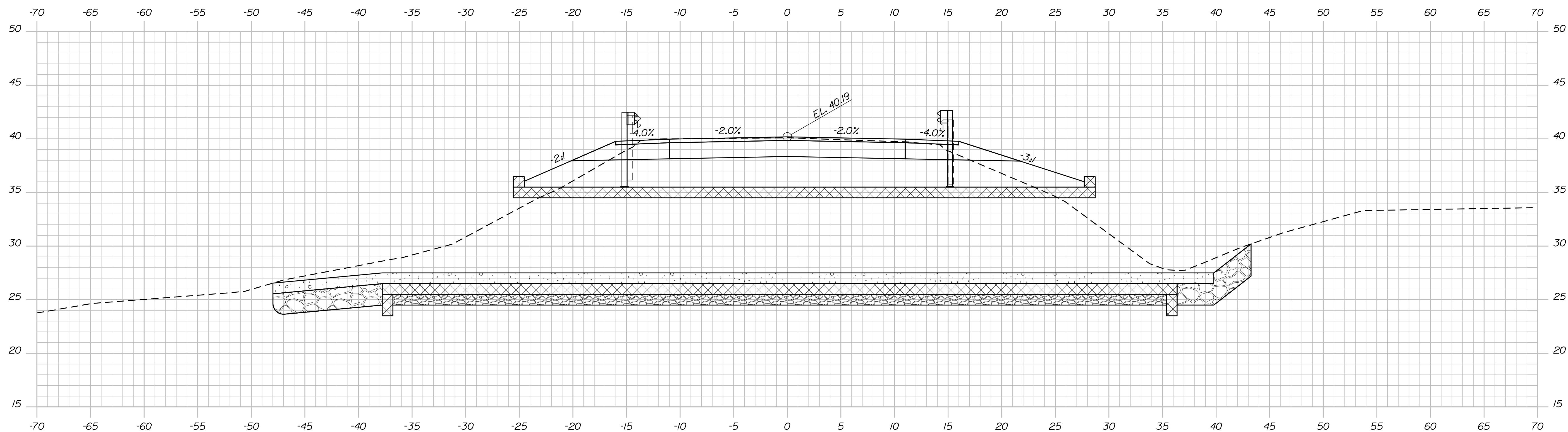
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 END MILL & OVERLAY
 BEGIN TRANSITION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02223800
WIN
BRIDGE NO. 0216
022238.00
BRIDGE PLANS

PROJ. MANAGER	JULIE BRASK	BY	DATE
DESIGN-DETAILED	LEB	BIN	08/2024
CHECKED-REVIEWED	GAS	DCE	08/2024
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

MITCHELL BRIDGE
NONESUCH RIVER
GORHAM-SCARBOROUGH CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
10
OF 21



Sta. 5+50.00 to Sta. 5+75.00

Date: 12/4/2024

Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTA\011_XSECT_5+50_004.dgn

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

02223800

WIN

022238.00

BRIDGE NO. 0216

BRIDGE PLANS

MITCHELL BRIDGE
NONESUCH RIVER
GORHAM-SCARBOROUGH CUMBERLAND COUNTY

CROSS SECTIONS

SHEET NUMBER

11

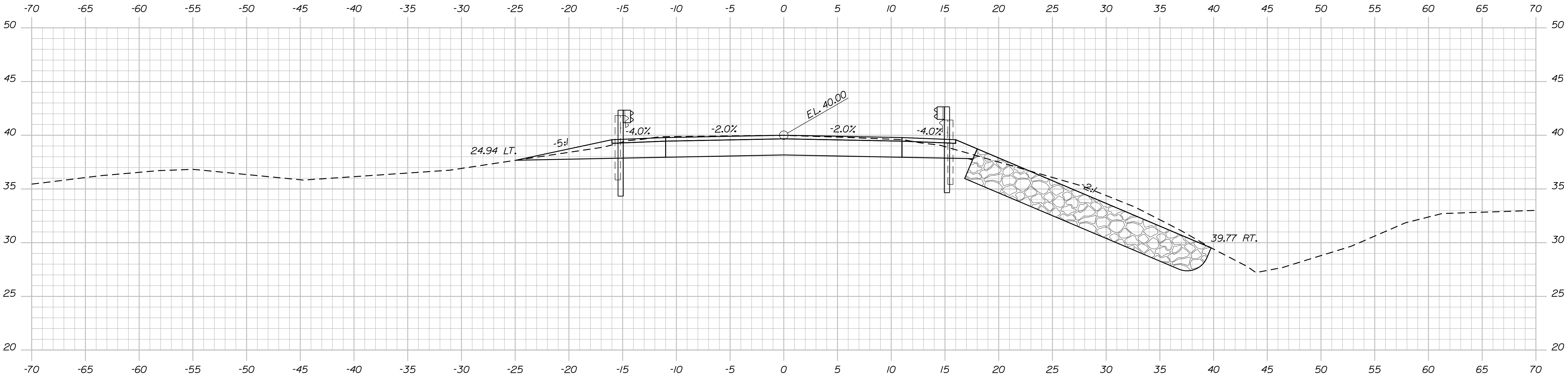
OF 21

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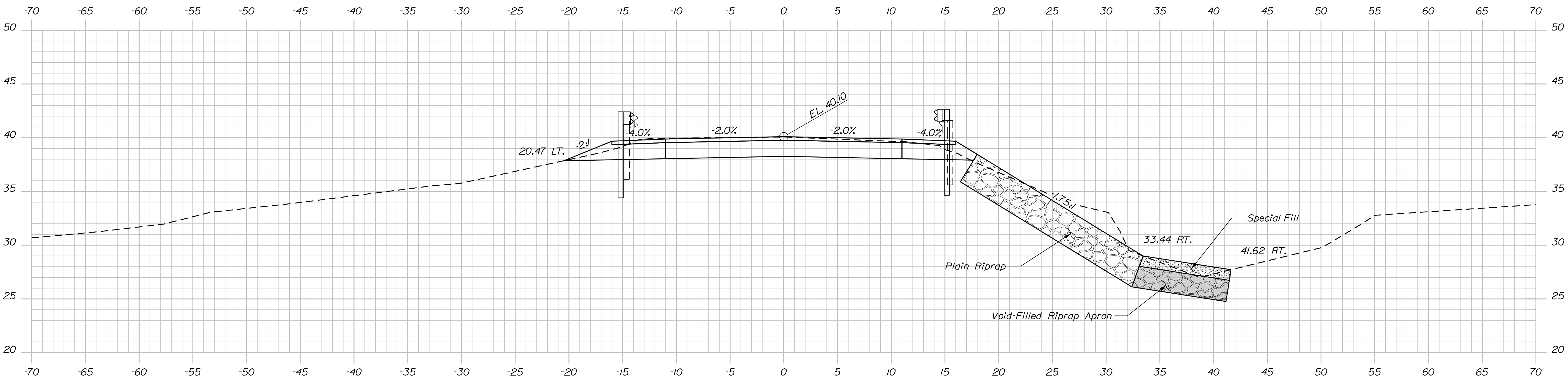
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Division: BRIDGE

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6+25.00
END PROJECT
BEGIN TRANSITION



6+00.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
02223800	
WIN	022238.00
BRIDGE NO. 0216	BRIDGE PLANS

DESIGN-DETAILED	DATE	BY	JULIE BRASK
CHECKED-REVIEWED	08/20/24	BIN	DOB
DESIGN-DETAILED	08/20/24	DCE	DOB
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

MITCHELL BRIDGE	
NONESUCH RIVER	
GORHAM-SCARBOROUGH CUMBERLAND COUNTY	
CROSS SECTIONS	

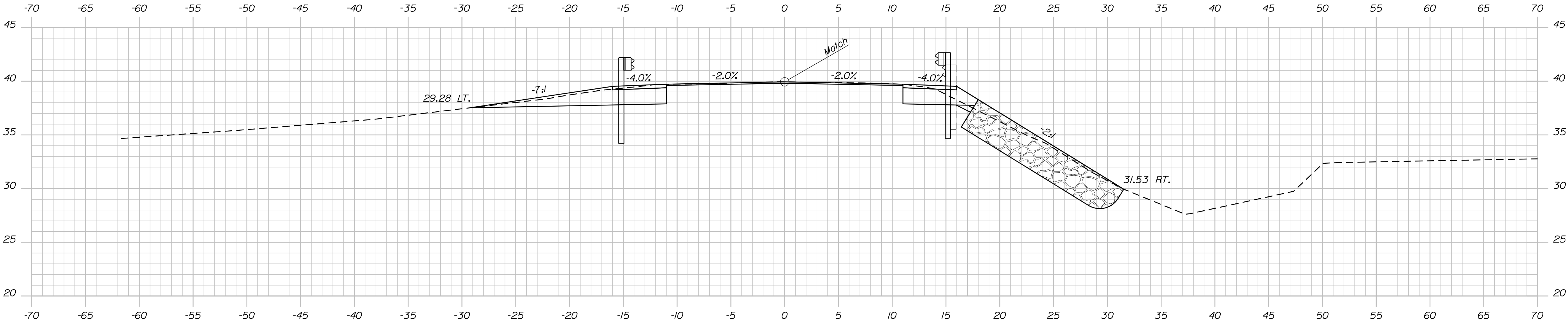
SHEET NUMBER	
12	
OF 21	

Date:12/4/2024

Username: Brian.Nichols

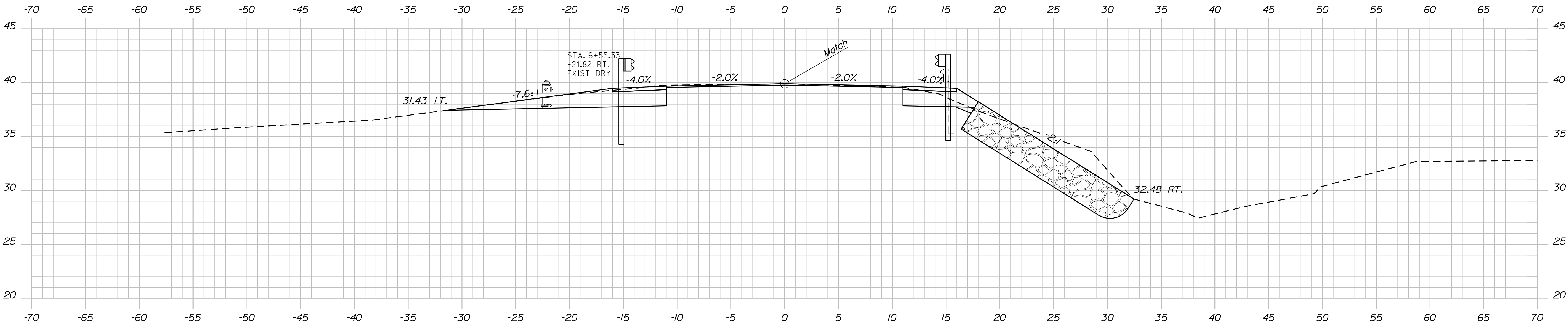
Division: BRIDGE

Filename: ... \MSTAO13_XSECT_6+50_006.dgn



Sta. 6+85 ± to Sta. 7+22 ±
 Install 31" W-Beam Guardrail Flared Terminal
 Install Reflectorized Flexible Guardrail Marker (2)

6+75.00



STA. 6+55.33
 ±21.82 RT.
 EXIST. DRY

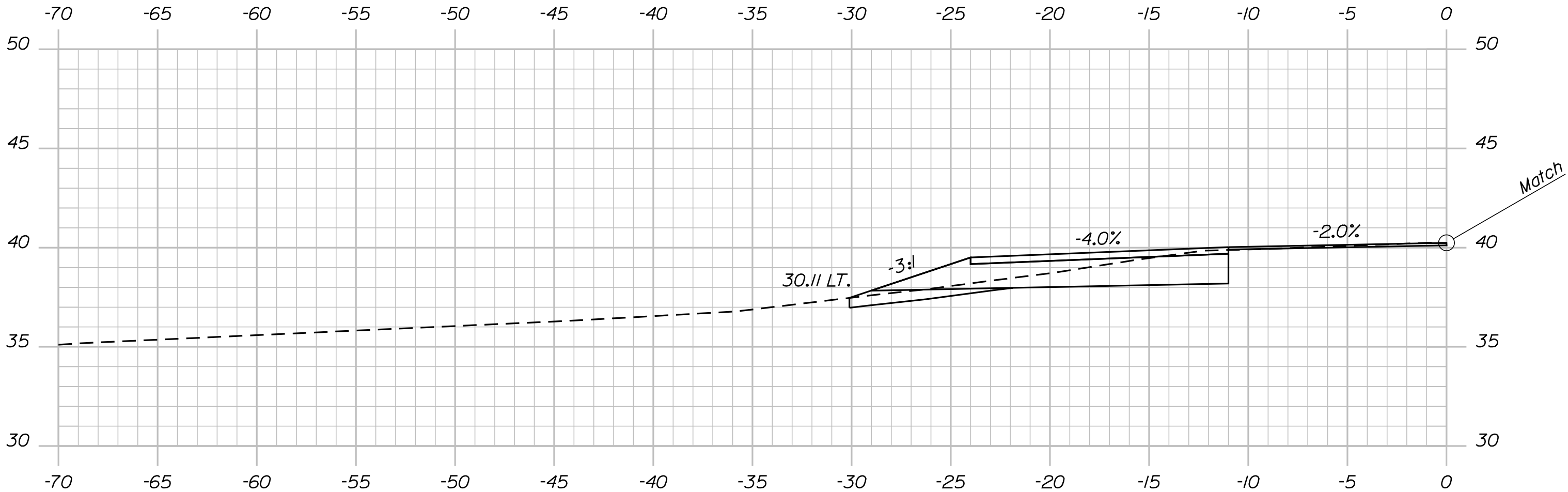
6+50.00
 END TRANSITION
 BEGIN MILL & OVERLAY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02223800
WIN
BRIDGE NO. 0216
022238.00
BRIDGE PLANS

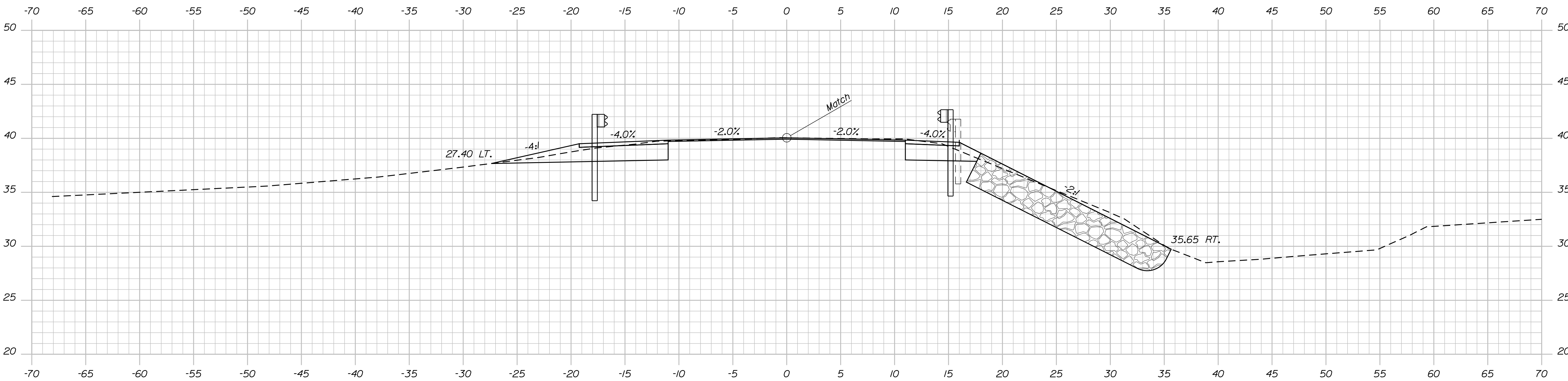
PROJ. MANAGER	JULIE BRASK	BY	DATE
DESIGNED-DETAILED	EDB	BIN	08/2024
CHECKED-REVIEWED	GAS	DCE	08/2024
DESIGNED-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

MITCHELL BRIDGE
NONESUCH RIVER
GORHAM-SCARBOROUGH CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
13
OF 21



7+22.17



7+00.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
02223800
WIN 022238.00
BRIDGE NO. 0216
BRIDGE PLANS

PROJ. MANAGER	JULIE BRASK	BY	DATE
DESIGN-DETAILED	EDB	BIN	08/2024
CHECKED-REVIEWED	GAS	DCE	08/2024
DESIGN-DETAILED			SIGNATURE
REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

MITCHELL BRIDGE NONESUCH RIVER GORHAM-SCARBOROUGH CUMBERLAND COUNTY
CROSS SECTIONS

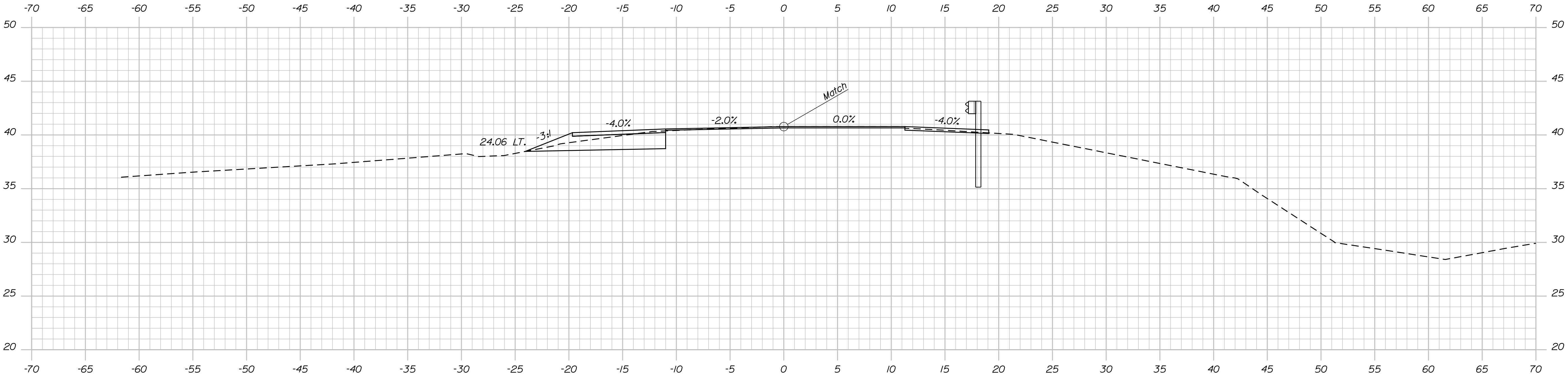
SHEET NUMBER
14
OF 21

Date:12/4/2024

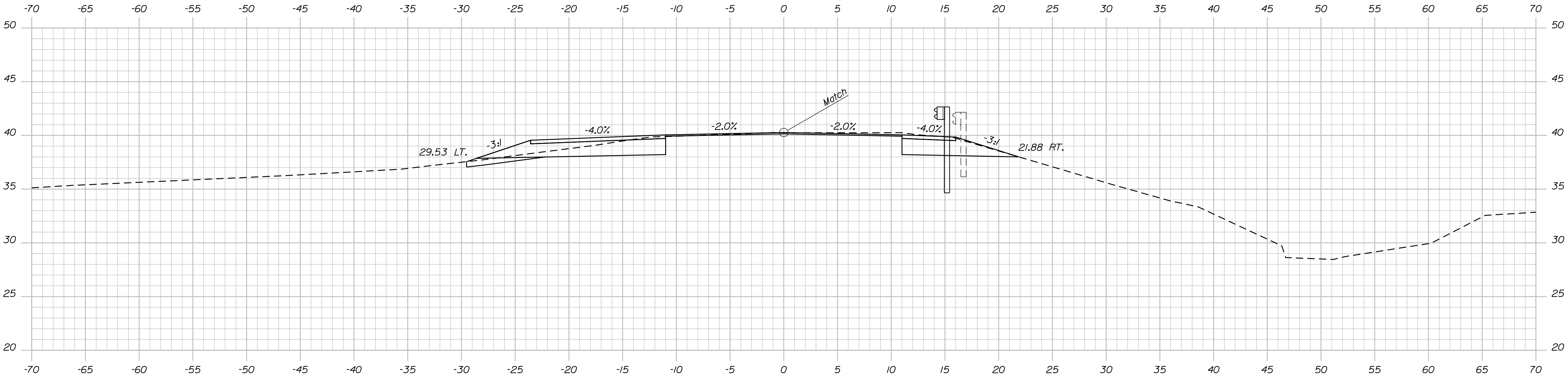
Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTA015_XSECT_7+25_008.dgn



7+50.00



7+25.00

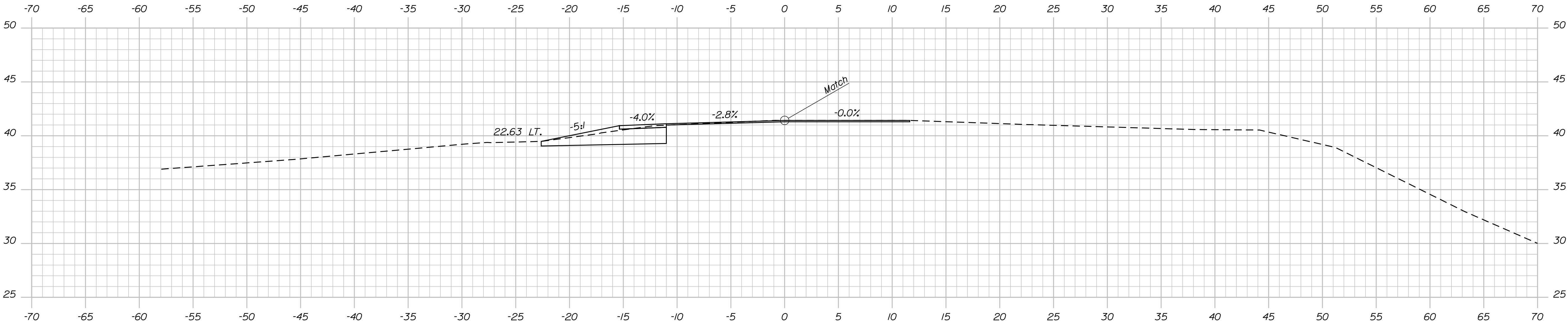
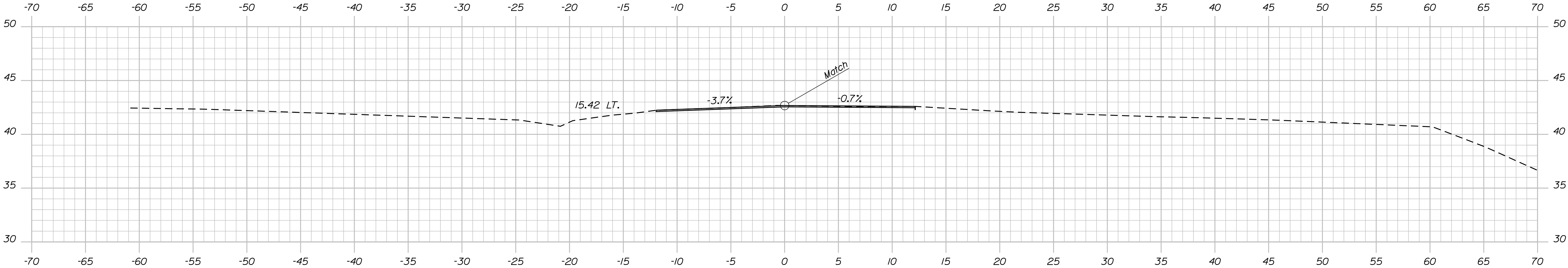
Sta. 7+35 ± to Sta. 7+58 ±
 Install 25 LF 3" W-Beam Mid-way Splice Guardrail - 35' radius
 Install Reflectorized Flexible Guardrail Marker (2)
 Install Terminal End

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
02223800	
WIN	022238.00
BRIDGE NO. 0216	BRIDGE PLANS

PROJ. MANAGER	JULIE BRASK	BY	DATE
DESIGN-DETAILED	LEB	BIN	08/2024
CHECKED-REVIEWED	GAS	DCE	08/2024
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

MITCHELL BRIDGE	
NONESUCH RIVER	
GORHAM-SCARBOROUGH CUMBERLAND COUNTY	
CROSS SECTIONS	

SHEET NUMBER
15
OF 21

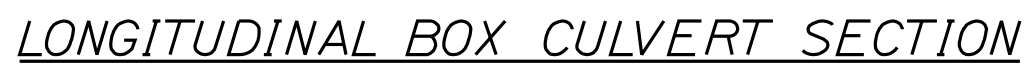
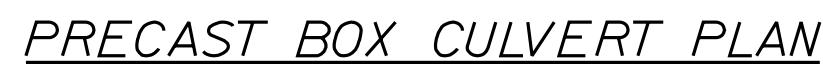


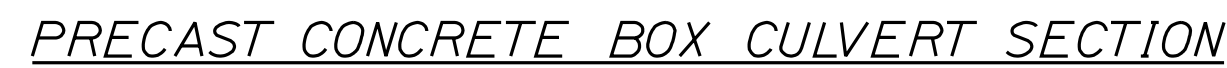
STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
02223800	
WIN	022238.00
BRIDGE NO. 0216	BRIDGE PLANS

PROJ. MANAGER	JULIE BRASK	BY	DATE
DESIGN-DETAILED	EDB	BIN	08/2024
CHECKED-REVIEWED	GAS	DCE	08/2024
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
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REVISIONS 4			
FIELD CHANGES			

MITCHELL BRIDGE	
NONESUCH RIVER	
GORHAM-SCARBOROUGH CUMBERLAND COUNTY	
CROSS SECTIONS	

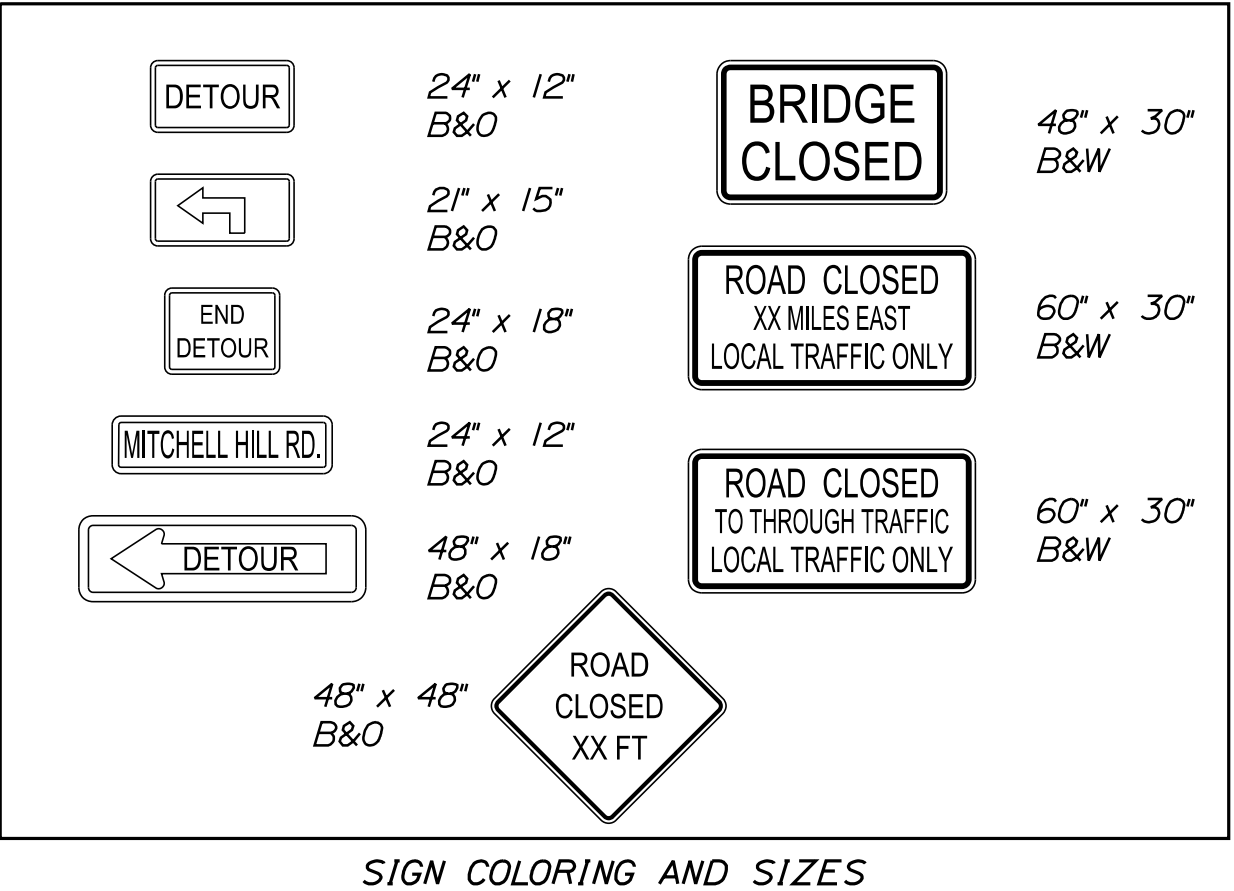
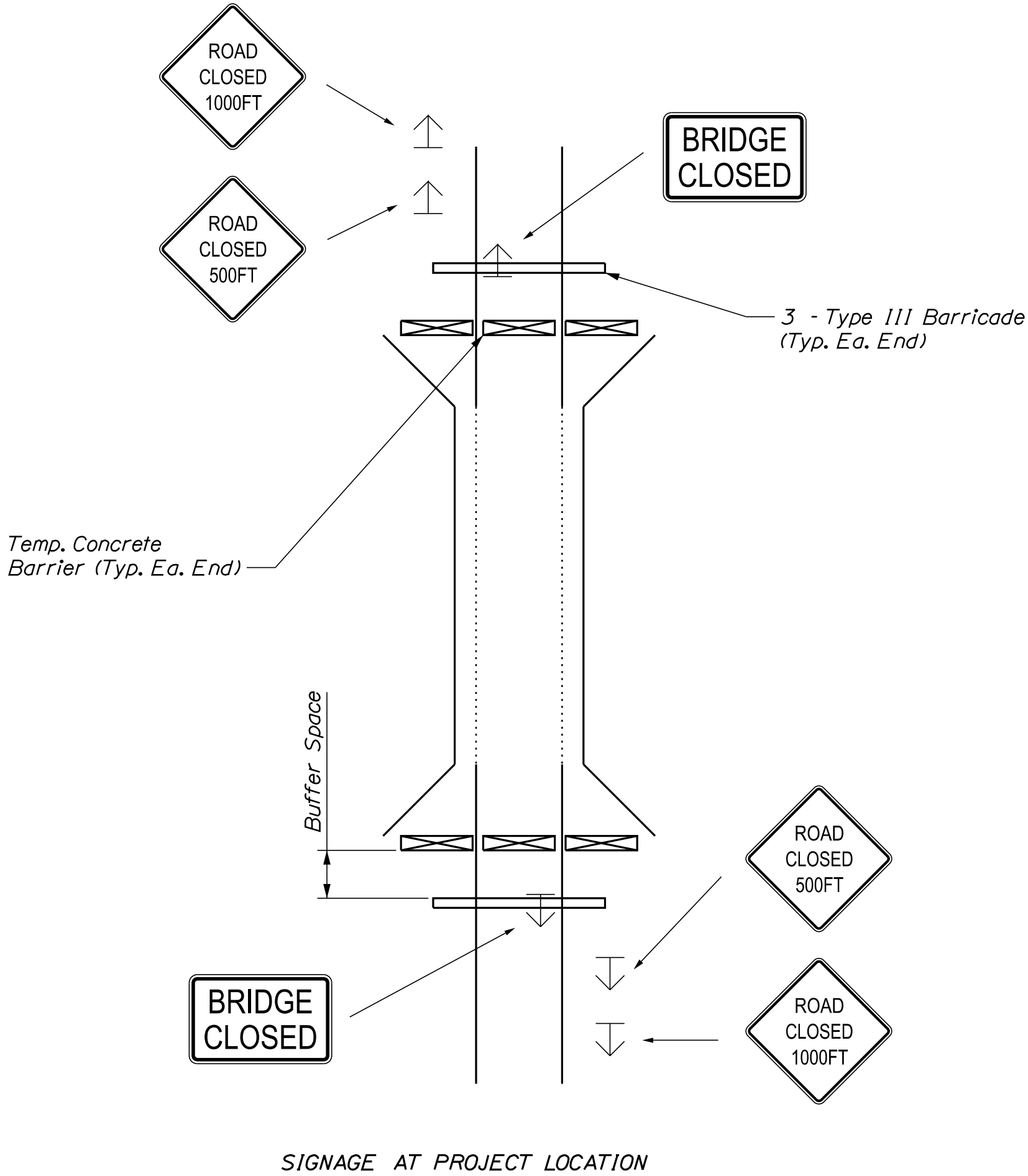
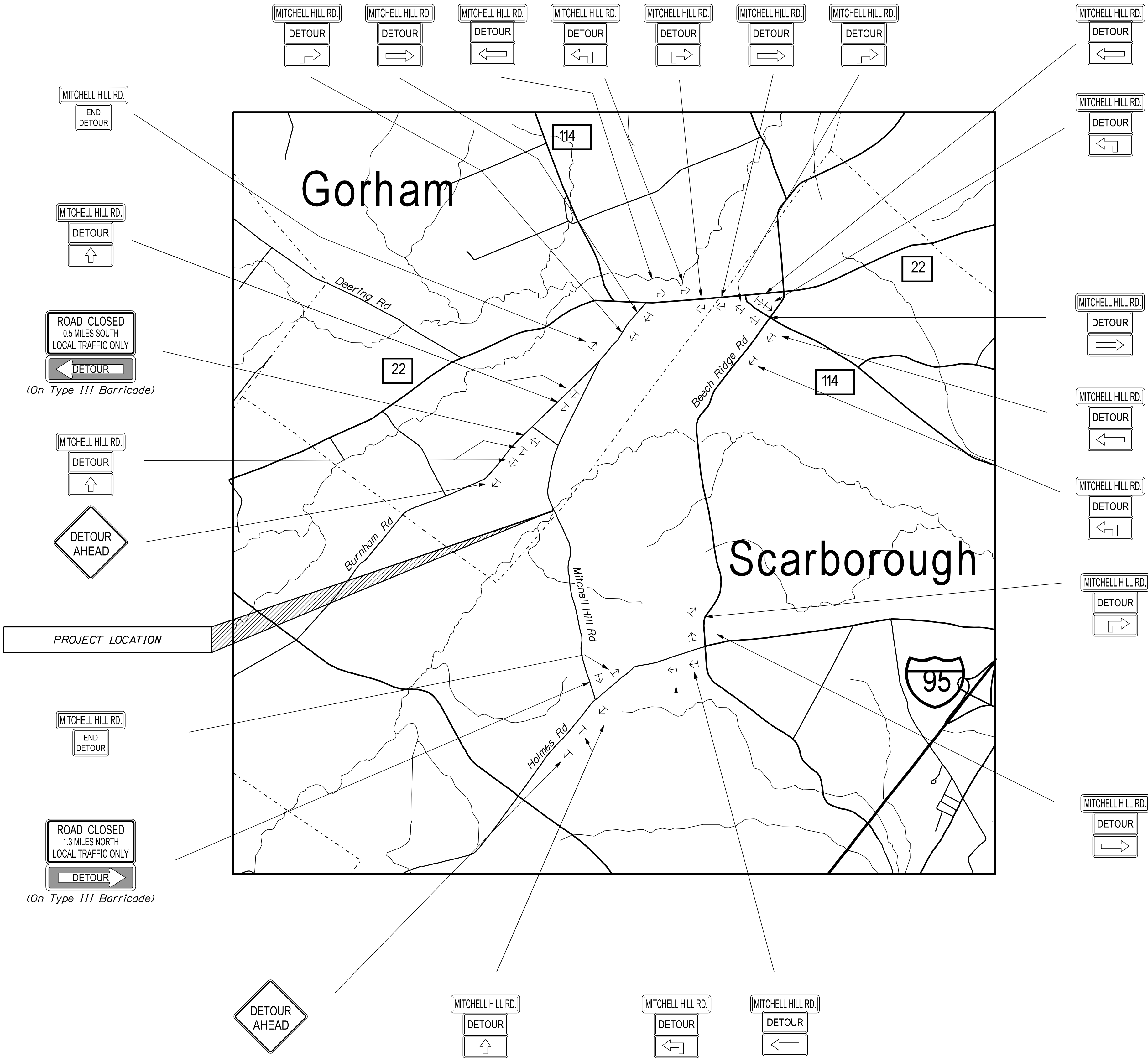
SHEET NUMBER
16
OF 21





6. The Stabilization/Reinforcement Geotextile shall be hand-deployed onto the prepared native soil subgrade prior to installing the crushed stone mat. Adjoining sections of the geotextile shall be overlapped by a minimum of 2 feet. The crushed stone shall be placed in maximum 6-inch-thick lifts and each lift compacted with at least 4 passes of a walk-behind plate compactor.

18 OF 21		SHEET NUMBER	MITCHELL BRIDGE NONESUCH RIVER GORHAM-SCARBOROUGH CUMBERLAND COUNTY										PROJ. MANAGER		JULIE BRASK		BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
			DESIGN-DETAILED		E08		B.J.N.		08/20/24		CHECKED-REVIEWED		DCE		DCE		08/20/24				SIGNATURE	
BOX CULVERT DETAILS			DESIGN2-DETAILED02																		P.E. NUMBER 02223800	
			DESIGN3-DETAILED03																			
			REVISIONS 1																			
			REVISIONS 2																			
			REVISIONS 3																			
			REVISIONS 4																		BRIDGE NO. 0216 WIN 022238.00 BRIDGE PLANS	
			FIELD CHANGES																			



DETOUR NOTES

- Spacing to be determined by the Resident in accordance with MUTCD
- Install Temporary Concrete Barrier at each end of the project Payment shall be made under Item No. 526.30I, Temporary Concrete Barrier.
- Install (3) Type III Barricades at each end of project and at each end of detour.
- Cover or remove all conflicting route signs.

STATE OF MAINE				DEPARTMENT OF TRANSPORTATION				02223800				WIN				022238.00				BRIDGE NO. 0216				BRIDGE PLANS			
MITCHELL BRIDGE				NONESUCH RIVER				GORHAM-SCARBOROUGH CUMBERLAND COUNTY				DETOUR PLAN				SHEET NUMBER				20				OF 21			
PROJ. MANAGER				DESIGN-DETAILED				CHECKED-REVIEWED				DESIGN-DETAILED				REVISIONS 1				REVISIONS 2				REVISIONS 3			
JULIE BRASK				EDB				BIN				DCE				SIGNATURE				P.E. NUMBER				DATE			
DATE				08/2024				08/2024				08/2024															

Date:12/4/2024

Username: Brian.Nichols

Division: BRIDGE

Filename: ...\\00\\ROW\\MSTA001_RWP\\PLAN1.dgn

