

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Fifth Edition 2010.

DESIGN LOADING

Live Load - Strength I Case HL - 93 Modified
Live Load - All Other Cases HL - 93

TRAFFIC DATA

Current (2010) AADT 1060
Future (2030) AADT 1270
DHV - % of AADT 11
Design Hour Volume 140
Heavy Trucks (% of AADT) 8
Heavy Trucks (% of DHV) 6
Directional Distribution (% of DHV) 55
18 kip Equivalent P 2.0 42
18 kip Equivalent P 2.5 40
Design Speed (mph) 40

HYDROLOGIC DATA

Drainage Area 17 sq mi
Design Discharge (Q50) 1486 cfs
Check Discharge (Q100) 1719 cfs
Headwater Elevation (Q50) 166.94 ft
Headwater Elevation (Q100) 168.48 ft
Discharge Velocity (Q50) 2.52 fps
Discharge Velocity (Q100) 2.57 fps
Headwater Elevation (Q1.1) 163.00 ft
Discharge Velocity (Q1.1) 1.00 fps

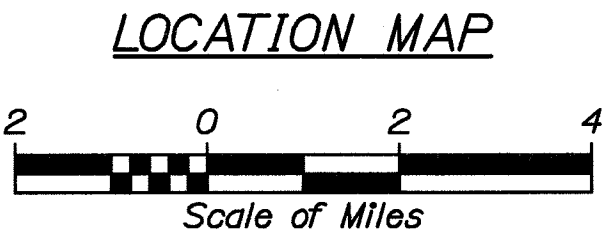
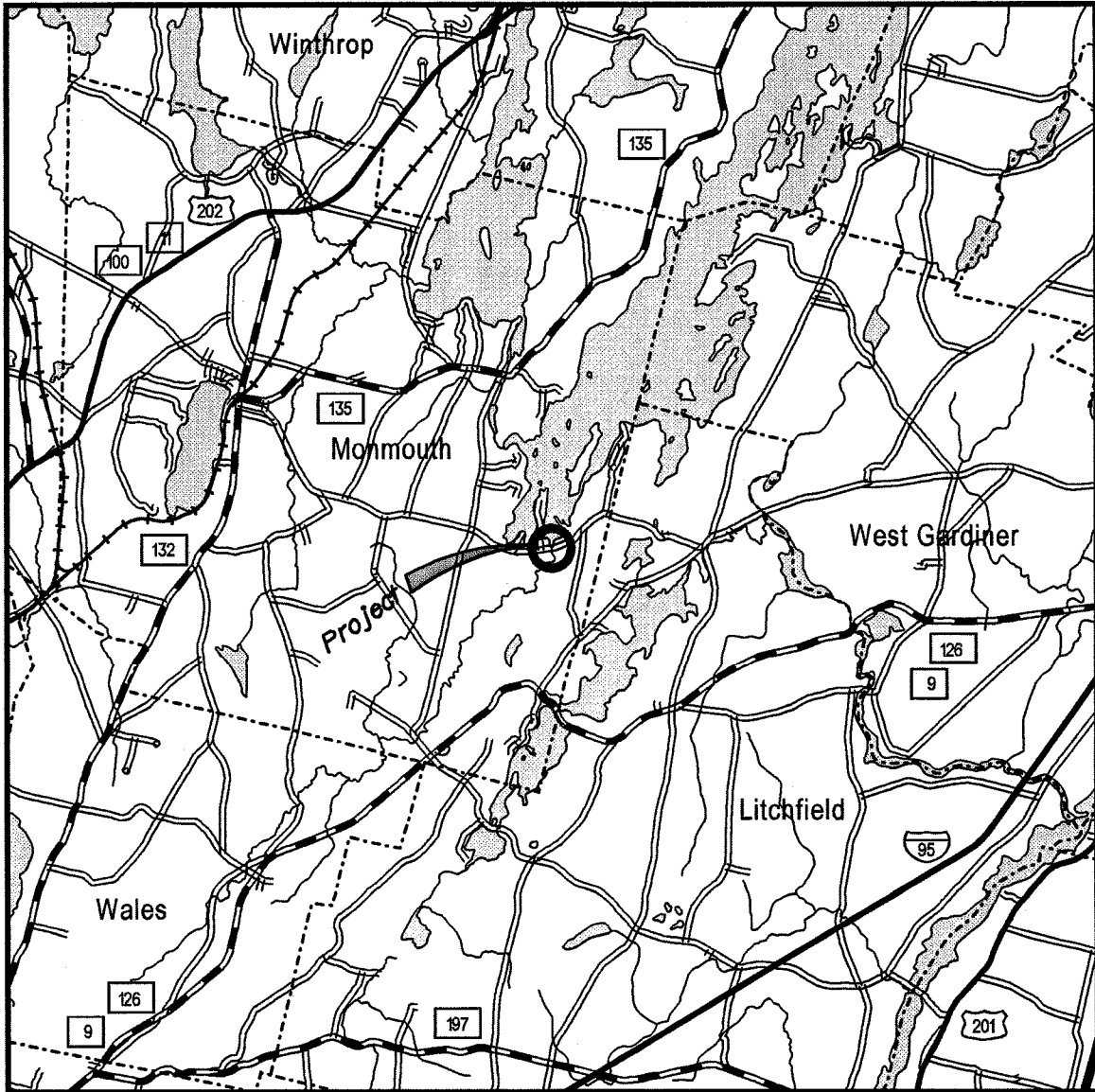
MATERIALS

Concrete:
Curbs & Transition Barriers Class "LP"
Precast Class "P"
All Other Class "A"
Reinforcing Steel ASTM A 615/A 615M, Grade 60
Prestressing Strands AASHTO 203 (ASTM A 416),
Grade 270, Low Relaxation

BASIC DESIGN STRESSES

Concrete f 'c = 4350 psi
Precast Concrete f 'c = 7500 psi
..... f 'ci = 5500 psi
Reinforcing Steel f y = 60,000 psi
Prestressing Strand F pu = 270,000 psi

MONMOUTH
KENNEBEC COUNTY
JOCK STREAM BRIDGE
OVER
JOCK STREAM
COBBOSSEECONTEE ROAD
PROJECT NO. BR-1671(600)X
PROJECT LENGTH 0.095 mi.
BRIDGE REPLACEMENT
BRIDGE NO. 2412



LIST OF DRAWINGS

Title Sheet 1
Estimated Quantities & Notes 2
General Plan 3
Profile 4
Boring Location Plan & Interpretive Subsurface Profile 5
Boring Logs 6
Highway Approach Cross - Sections 7 - 11
Abutments 12
Abutment Details 13
Precast Voided Slabs 14
Superstructure 15
Superstructure Reinforcing 16
Detour Plan 17
Right of Way Map 18

UTILITIES

Central Maine Power Company
Community Services Telephone
Time Warner Cable

MAINTENANCE OF TRAFFIC

The bridge will be closed to traffic during construction for a time period specified in the Special Provisions. Traffic shall be detoured as shown on the Detour Plan.

Date:8/23/2010

Username: dana.damren

Division: BRIDGE

Filename: \\00\BRIDGE\MSTA\001_Title.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED
[Signature]
COMMISSIONER

DATE
9/25/10

CHIEF ENGINEER
[Signature]
8/25/10

SIGNATURE
[Signature]
9918

P.E. NUMBER
9918

DATE
AUG 24 2010

PROGRAM	BRIDGE PROGRAM
PROJECT MANAGER	KEVIN CUMMINGS
DESIGNER	ROGER NAJOS
CONSULTANT	N/A
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

BR-1671(600)X

PIN 16716.00

MONMOUTH
JOCK STREAM BRIDGE

TITLE SHEET

SHEET NUMBER

1

OF 18

[illegible]

GENERAL CONSTRUCTION NOTES

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

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

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

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

5. 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. All embankment material, except as otherwise shown, placed below EL. 167. shall be Granular Borrow meeting the requirements of Subsection 703.19. Material for Underwater Backfill.

7. Construct the riprap shelf at each abutment at EL.164.8.

8. Guardrail posts as shown in the Standard Details shall be modified from the indicated length of 6 feet to a length of 7 feet with an embedment of 4.5 feet. Payment will be considered incidental to the guardrail pay items.

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

*All exposed surfaces of concrete curbs,
Fascias down to the drip notch,
All exposed surfaces of Concrete Transition Barriers,
Abutments faces on the stream side to bottom of the riprap shelf.*

10. Project information referred to below may be accessed at the following
MaineDOT web address: [http://www.maine.gov/mdot/comprehensive-list-
projects/project-information.php](http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php).

11. 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.

2. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is 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.

13. The project geotechnical report titled: GEOTECHNICAL DESIGN REPORT
For the Replacement of: JOCK STREAM BRIDGE OVER JOCK STREAM,
MONMOUTH, MAINE, Soils Report No. 2009-32, and addendum dated June 30,
2010, may be accessed at the MaineDOT web address.

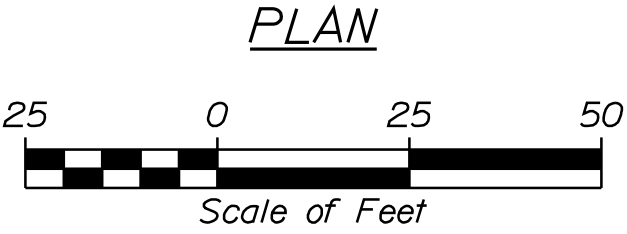
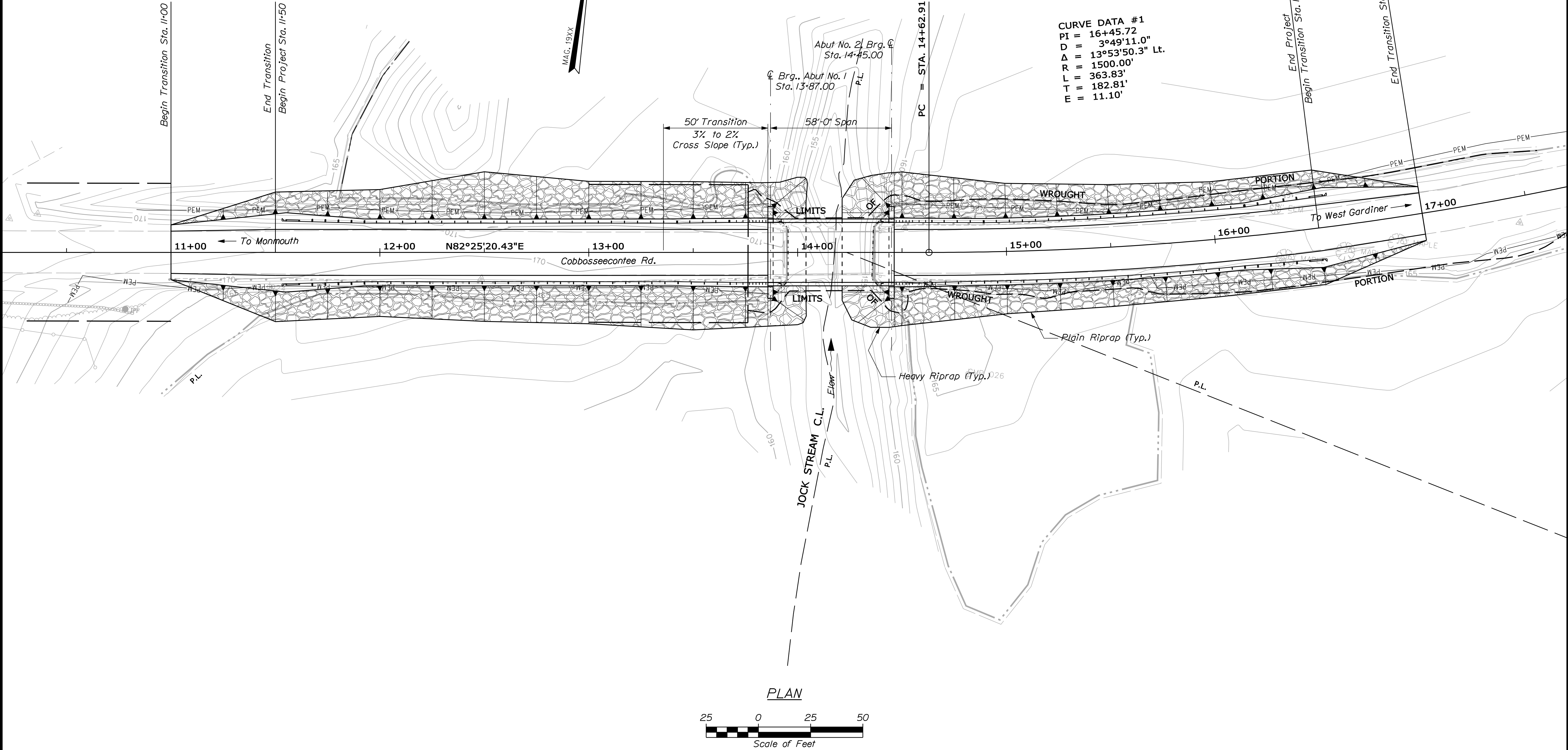
4. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the 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.

5. 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:

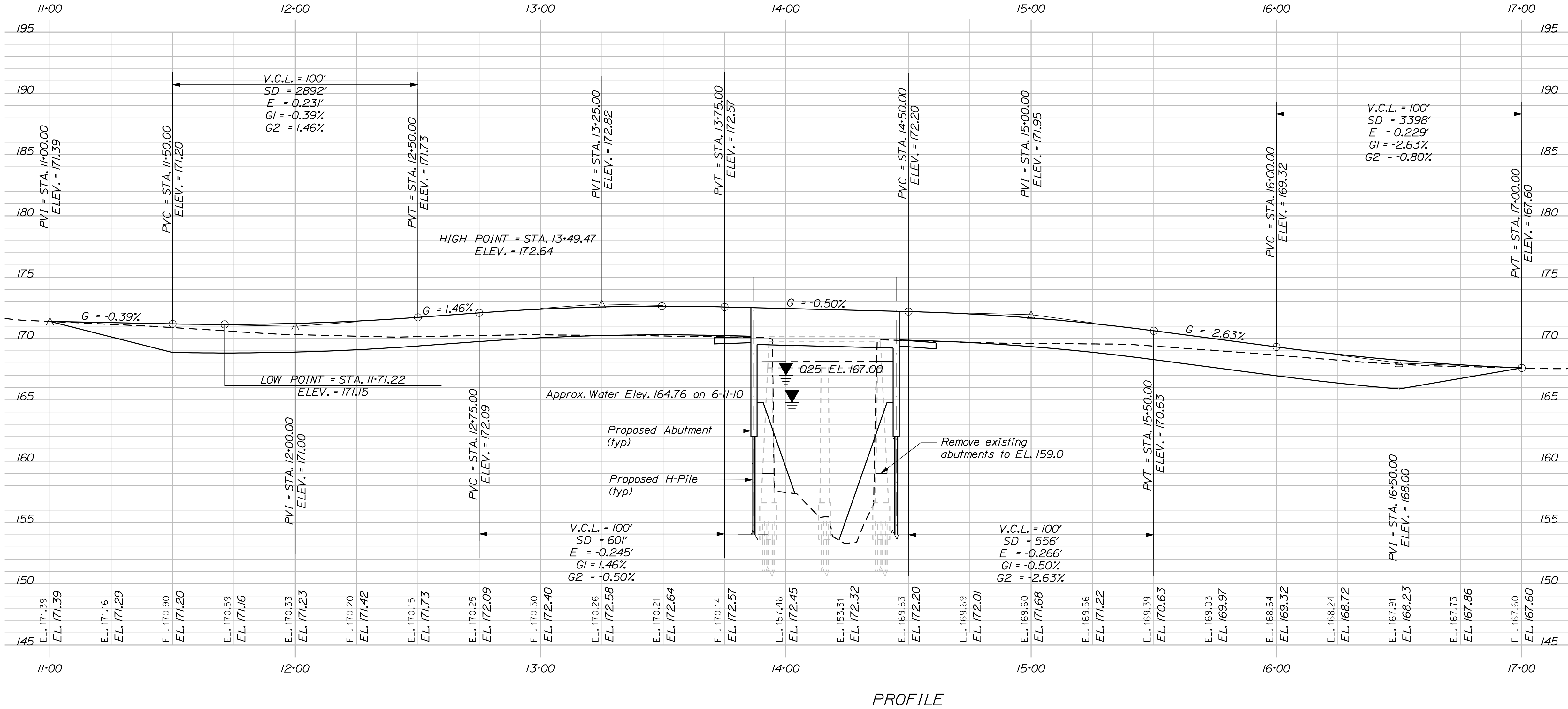
- a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
- b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
- c. If a design change 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.

16. The Contractor shall submit a Bridge Demolition Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Demolition Plan will be considered incidental to the bridge removal pay item.

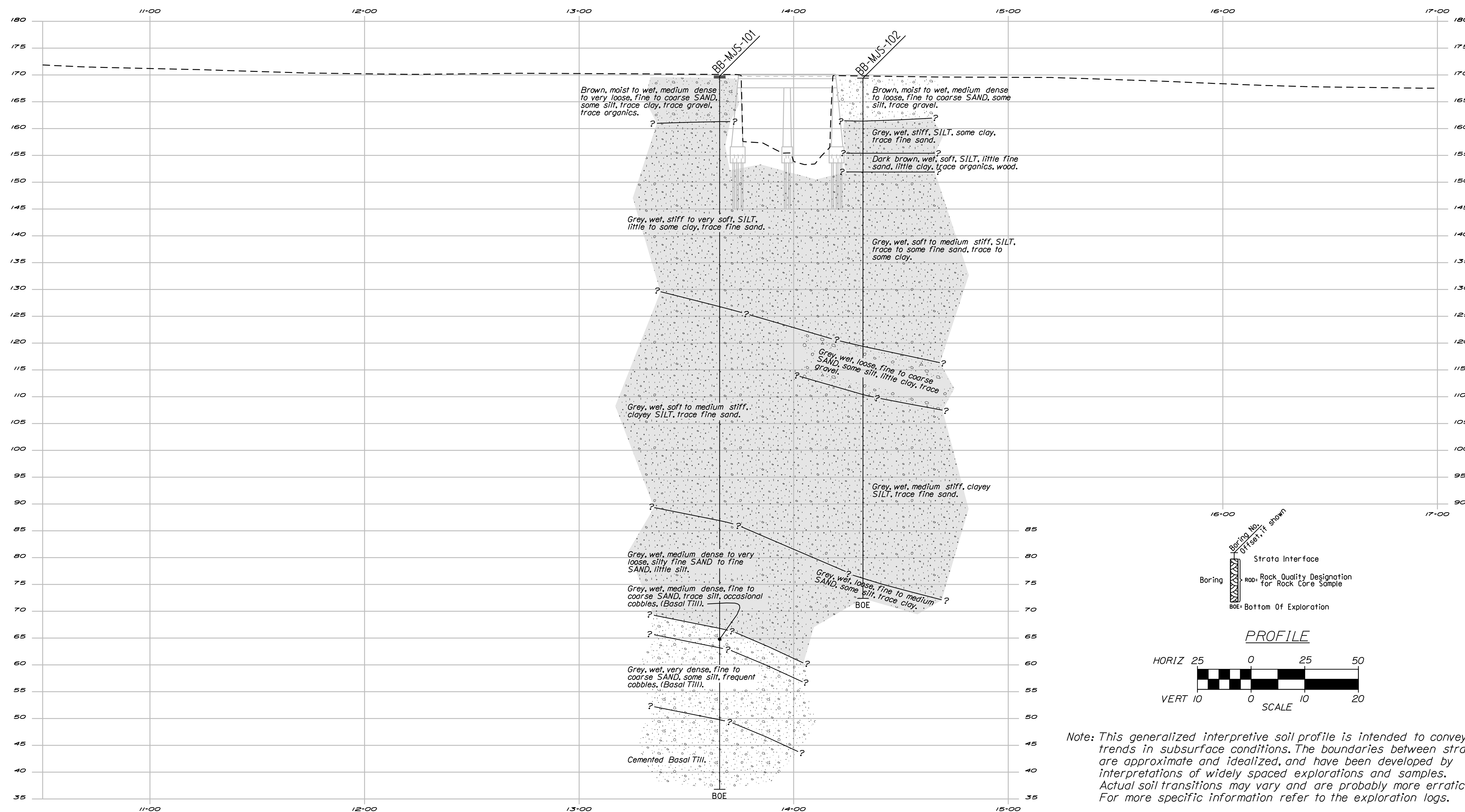
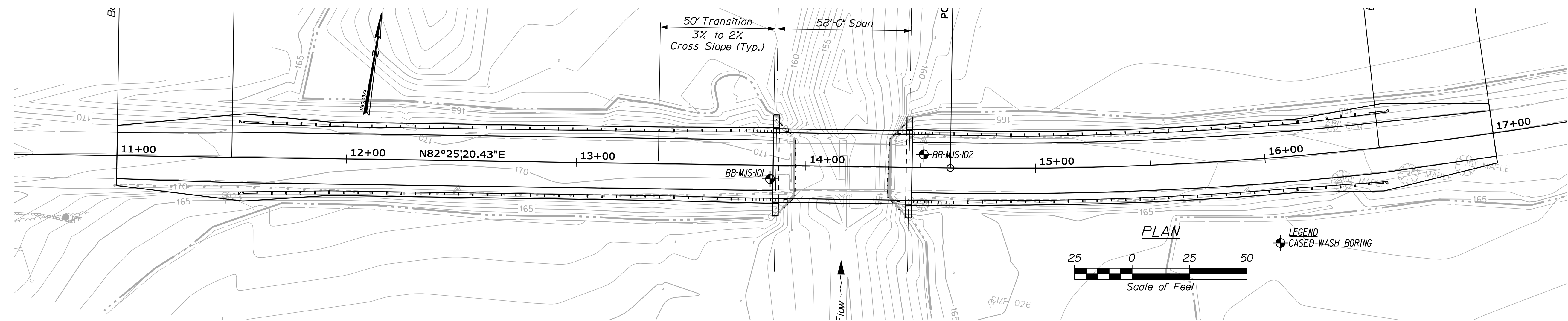
OF 18	2	SHEET NUMBER		JOCK STREAM BRIDGE		PROJ. MANAGER		BY		DATE		STATE OF MAINE	
		JOCK STREAM		Kennebec County		R. Nadeau		Team South		Aug. 2010		DEPARTMENT OF TRANSPORTATION	
		MONMOUTH				C. Gustafson		Team South		Aug. 2010			
		ESTIMATED QUANTITIES				DESIGNS DETAIL D						SIGNATURE	
						DESIGNS DETAIL D						P.E. NUMBER	
						REVISIONS 1							
						REVISIONS 2							
						REVISIONS 3							
						REVISIONS 4							
						FIELD CHANGES							
												BRIDGE NO. 2412	
												PIN	
												16716.00	
												BRIDGE PLANS	



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE	
	P.E. NUMBER	
	DATE	
JOCK STREAM BRIDGE JOCK STREAM KENNEBEC COUNTY MONMOUTH	SHEET NUMBER	
	3	
	OF 18	
BR-1671(600)X		PIN
BRIDGE NO. 2412		16716.00
BRIDGE PLANS		



JOCK STREAM BRIDGE JOCK STREAM MONMOUTH KENNEBEC COUNTY			PROJ. MANAGER	K. Cummings	BY	DATE
			DESIGN-DETAILED	R. Nodus	Team South	Aug. 2010
PROFILE			CHECKED-REVIEWED	R. Cummings	SIGNATURE	
			DESIGN2-DETAILED2			
			DESIGN3-DETAILED3		P.E. NUMBER	
			REVISIONS 1			
			REVISIONS 2			
			REVISIONS 3		DATE	
			REVISIONS 4			
			FIELD CHANGES			
SHEET NUMBER			BRIDGE NO. 2412			
4			PIN 16716.00			
OF 18			BRIDGE PLANS			



Note: 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 transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS										Project: Jack Stream Bridge #2412 carrying Cabooseside Road over Jack Locations Monmouth, Maine										Boring No.: BB-MJS-101 PIN: 16716.00																			
Driller: Maimoot		Elevation (ft.): 169.8		Auger 10/00:		5" Solid Stem		Operator: E. Giguere, C. Giles		Datum: NAVD 88		Sampler: Standard Split Spoon		Logged By: B. Wilder		Rig Type: CME 45C		Hammer Wt./Fall: 140W/30"		Date Start/Finish: 6/16/19, 24/09		Drilling Method: Cased Wash Boring		Core Barrel: ND-2"		Boring Location: 13+45.5, 5.9 Rt.		Casing 10/00: HW		Water Level: 9.0' bgs.									
Hammer Efficiency Factors: 0.84										F = Rock Core Sample S = Solid Stem Auger W = Washed Core Sample U = Thin Wall Tube Sample M = Unsuccessful Thin Wall Tube Sample Attempt A = In Situ Vane Shear Test P = Pocket Penetration Test N = SPT G = Grain Size Analysis E = Consolidation Test										F = Rock Core Sample S = Solid Stem Auger W = Washed Core Sample U = Thin Wall Tube Sample M = Unsuccessful Thin Wall Tube Sample Attempt A = In Situ Vane Shear Test P = Pocket Penetration Test N = SPT G = Grain Size Analysis E = Consolidation Test										F = Rock Core Sample S = Solid Stem Auger W = Washed Core Sample U = Thin Wall Tube Sample M = Unsuccessful Thin Wall Tube Sample Attempt A = In Situ Vane Shear Test P = Pocket Penetration Test N = SPT G = Grain Size Analysis E = Consolidation Test									
Depth (ft.)	Sample No.	Pen./Rac. (in.)	Sample Depth (ft.)	Blow (1/8 in. Stroke) (ft.)	Blow (1/8 in. Stroke) (ft.)	Blow (1/8 in. Stroke) (ft.)	Blow (1/8 in. Stroke) (ft.)	Blow (1/8 in. Stroke) (ft.)	Blow (1/8 in. Stroke) (ft.)	Visual Description and Remarks	Laboratory Testing Results/ASTM and Unified Class																												
0										Pavement	0-35																												
5	10	24/20	1.00 - 3.00	4/7/5/5	12	17				Brown, moist, medium dense, fine to coarse SAND, some silt, trace gravel.	GR21264 A-4, CL-ME, SC-SM, WC=10.5%																												
10	20	24/18	5.00 - 7.00	1/11/1/50	2	3				Brown, wet, very loose, fine to coarse SAND, some silt, trace clay, trace gravel, trace organics.	GR21265 A-4, SC-SM, WC=19.9%																												
15	30	24/21	14.00 - 16.00	3/4/4/4	8	11	38			Grey, wet, stiff, SILT, little clay, trace fine sand.	GR21266 A-4, CL-ME, WC=24.0% Non-plastic																												
20	40	24/17	19.00 - 21.00	1/1/ND/NR	1	1	29			Grey, wet, very soft, SILT, little clay, trace fine sand.	GR21267 A-4, CL-ME, WC=24.0% Non-plastic																												
25	50	24/20	24.00 - 26.00	ND/NR/ND/NR/ND/NR	---	---	---			Grey, wet, soft, SILT, some clay, trace fine sand.	GR21268 A-4, CL-ME, WC=25.4% Non-plastic																												
30	V1		26.00 - 28.37	Su=312/89 psf	25					55x130 mm vane row torque readings: V1: 7.0/2.0 ft-lbs																													
30	V2		27.00 - 27.37	Su=312/45 psf	22					V2: 7.0/1.0 ft-lbs																													
30	60	24/24	29.00 - 31.00	ND/NR/ND/NR/ND/NR	---	---	---			Grey, wet, soft, SILT, some clay, trace fine sand.	GR21269 A-4, CL-ME, WC=25.4% Non-plastic																												
35	V3		31.00 - 31.43	Su=247/55 psf	28					55x130 mm vane row torque readings: V3: 9.0/2.0 ft-lbs																													
35	V4		32.00 - 32.43	Su=384/69 psf	28					V4: 14.0/2.0 ft-lbs																													
35	MU/70	24/12	34.00 - 36.00	ND/NR/ND/NR/ND/NR	---	---	---			Failed Piston Sampler attempt. Grey, wet, soft, SILT, some clay, trace fine sand.	GR21270 A-4, CL-ME, WC=25.4% Non-plastic																												
40	V5		36.00 - 36.43	Su=494/41 psf	35					55x130 mm vane row torque readings: V5: 18.0/1.5 ft-lbs																													
40	V6		37.00 - 37.43	Su=384/27 psf	33					V6: 14.0/1.0 ft-lbs																													
40	MU/80	24/4	40.50 - 42.50	ND/NR/ND/NR/ND/NR	---	---	---			QHP-Hydraulic Push																													
45	V7		42.50 - 42.93	Su=384/55 psf	37					55x130 mm vane row torque readings: V7: 14.0/2.0 ft-lbs																													
45	V8		43.50 - 43.93	Su=494/41 psf	38					V8: 18.0/1.5 ft-lbs	43.00																												
45	MU/90	24/20	45.00 - 47.00	Would Not Push ND/NR/ND/NR/ND/NR	---	---	---			Failed 55x130 mm vane attempt. Grey, wet, soft, Clayey SILT with 1/2" fine sand layer.	GR21271 A-4, CL-ME, WC=28.3% Non-plastic																												
50	MU/100	24/24	49.00 - 51.00	ND/NR/ND/NR/ND/NR	---	---	---			Failed Piston Sampler attempt. Grey, wet, soft to medium stiff, Clayey SILT, trace fine sand.	GR21272 A-4, CL-ME, WC=27.8% Non-plastic																												
50	V10		51.00 - 51.43	Su=220/55 psf	27					55x130 mm vane row torque readings: V10: 8.0/2.0 ft-lbs																													
50	V11		52.00 - 52.43	Su=522/69 psf	26					V11: 19.0/2.5 ft-lbs																													
55	V12		54.00 - 54.43	Piston Sampler	30					Grey, wet, soft, Clayey SILT, trace fine sand. Let tube set 60 minutes.	G-GR21273 A-4, CL-ME, WC=30.4% Non-plastic																												
55	V13		56.00 - 56.43	Su=467/41 psf	32					55x130 mm vane row torque readings: V12: 18.0/2.0 ft-lbs																													
55	V14		57.00 - 57.43	Su=674/41 psf	24					V13: 11.0/1.5 ft-lbs																													
60	V15		59.00 - 59.43	Su=467/41 psf	24					55x130 mm vane row torque readings: V14: 18.0/2.0 ft-lbs																													
60	V16		60.00 - 60.43	Su=467/41 psf	29					V15: 22.0/2.0 ft-lbs																													
65	V17		66.00 - 66.43	Su=343/27 psf	28					Grey, wet, soft to medium stiff, Clayey SILT, trace fine sand. Let tube set 20 minutes.	G-GR21274 A-4, CL-ME, WC=30.4% Non-plastic																												
65	V18		67.00 - 67.43	Su=618/82 psf	20					55x130 mm vane row torque readings: V16: 12.5/1.0 ft-lbs																													
65	V19		69.00 - 69.43	Su=786/76 psf	22					V17: 22.5/3.0 ft-lbs																													
70	V20		71.00 - 71.43	Su=786/76 psf	31					55x130 mm vane row torque readings: V18: 12.5/1.0 ft-lbs																													
70	V21		73.00 - 73.43	Su=687/96 psf	26					Grey, wet, medium stiff, Clayey SILT, trace fine sand.	GR21275 A-4, CL-ME, WC=27.7% Non-plastic																												
75										55x130 mm vane row torque readings: V19: 25.0/3.5 ft-lbs																													
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75										55x130 mm vane row torque readings: V85: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V86: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V87: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V88: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V89: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V90: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V91: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V92: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V93: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V94: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V95: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V96: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V97: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V98: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V99: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V100: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V101: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V102: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V103: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V104: 25.0/3.5 ft-lbs																													
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75										55x130 mm vane row torque readings: V106: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V107: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V108: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V109: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V110: 25.0/3.5 ft-lbs																													
75										55x130 mm vane row torque readings: V111: 25.0/3.5 ft-l																													

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 conditions other than those present at the time measurements were made.
 Boring No.: BB-MJS-101

Maine Department of Transportation Soil/Bore Exploration Log US CUSTOMARY UNITS										Project: Jack Stream Bridge #2412 carrying Cabooseside Road over Jack Locations Monmouth, Maine										Boring No.: BB-MJS-101 PIN: 16716.00									
Driller: Maimoot					Elevation (ft.): 169.8					Auger 10/00:					5" Solid Stem														
Operator: E. Giguere, C. Giles					Datum: NAVD 88					Sampler:					Standard Split Spoon														
Logged By: B. Wilder					Rig Type: CME 45C					Hammer Wt./Fall:					140w/30"														
Date Start/Finish: 6/16/19, 24/09					Drilling Method: Cased Wash Boring					Core Barrel:					ND-2"														
Boring Location: 13+45.5, 5.9 Rt.					Casing 10/00:					HW					Water Level: 9.0' bgs.														
Hammer Efficiency Factor: 0.84					Hammer Type: Automatic ☒ Hydraulic ☐ Rock & Soilhead ☐																								
Definitions D = Split Spoon Sample W = Unsuccessful Split Spoon Sample attempt U = Thin Wall Tube Sample M = Unsuccessful Thin Wall Tube Sample attempt V = In Situ Vane Shear Test P = Pocket Penetration Test N = SPT G = Grain Size Analysis E = Consolidation Test R = Rock Core Sample SA = Solid Stem Auger HSA = Hollow Stem Auger BS = Barter Core WB = weight of 140lb. hammer ND = weight of rods or casing NR = Roller on top of auger S_u = Netly First Vane Shear Strength (psf) S_u = Netor Torque Shear Strength (psf) S_c = Adjusted Compressive Strength (psf) Unconsolidated = Raw SPT Blow Normal Efficiency Factor = Actual Calibration Value N₆₀ = SPT Unconsolidated corrected for hammer efficiency N₆₀ = Efficiency Factor/ASTM unconsolidated Su_{avg} = 140 lb Vane Shear Strength (psf) WC = water content, percent LL = Liquid Limit PL = Plastic Limit PI = Plasticity Index P₁ = Plasticity Index P₁=2																													
Depth (ft.)	Sample No.	Pen./Rac. (in.)	Sample Depth (ft.)	Blow (1/8 in. Stroke) (ft.)	Shear Strength (psf) (121)	Unconsolidated	N ₆₀	Casing	Casing Life (ft.)	Graphic Log	Visual Description and Remarks										Laboratory Testing Results/ASTM and Unified Class								
80	30	24/20	71.50 - 77.50					54			Grey, wet, medium stiff, Clayey SILT, trace fine sand.										GH212301 A-4, CL WC=35.6% LL=35 PL=21 PI=14								
	V20		77.50 - 77.93				54		65x130 mm vane row torque readings: V201 19.5/1.5 ft-lbs																				
	WV						43		Failed 65x130 mm vane attempt.																				
	130	24/24	79.00 - 81.00				---	46			Grey, wet, soft, Clayey SILT with 1/2" fine sand layers.										GH212302 A-4, CL WC=38.3% LL=31 PL=19 PI=12								
	WV		81.00 - 81.30				Would Not Push	52			Failed 65x130 mm vane attempt.																		
								66																					
								66																					
								66																					
								66																					
								66																					
85	140	24/13	84.00 - 86.00				8/8/11/16	19	27	40	Grey, wet, medium dense, Silty fine SAND.										GH212303 A-2-A, SM WC=23.0%								
								41																					
								47																					
								64																					
								73																					
	90	150	24/15	89.00 - 91.00				2/4/4/5	8	11	27	Similar to above.																	
									36																				
									69																				
									97																				
									113																				
95		160	24/14	94.00 - 96.00				1/1/1/2	2	3	39	Grey, wet, very loose, fine SAND, little silt.										GH212304 A-2-A, SM WC=28.8%							
									111																				
									146																				
									178																				
		100	170	24/14	99.00 - 101.00				3/3/2/2	5	7	50	Grey, wet, loose, fine SAND, some silt.										GH212305 A-2-A, SM WC=23.5%						
									37																				
									38																				
									69																				
									183																				
	105		180	24/13	104.00 - 106.00				7/3/15/32	18	25	330	Grey, wet, medium dense, fine to coarse SAND, little gravel, trace silt, occasional cobbles.										GH212306 A-3, 3P-SM WC=17.4%						
									88																				
110			R1	92-4/24	106.60 - 114.30					155		63.20	R1: COBBLES and GRAVEL. R1 Core Times (minsec) 106.6-107.6 (12:45) 107.6-108.6 (11:01) 108.6-109.6 (11:53) 109.6-110.6 (12:40) 110.6-111.6 (13:20) 111.6-112.6 (12:48) 112.6-113.6 (11:20) 113.6-114.3 (12:00)																
										219																			
										167																			
									410																				
									800																				
									817																				
									817																				
									817																				
								817																					
								817																					
115											Roller Cored ahead to 129.0' bgs.																		
120											Cemented TILL at 120.0' bgs.																		
130																													
135																													
140																													
145																													
150																													
Bottom																													

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

* Refer: test readings have been made at 1' and 2' under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 2 of 2

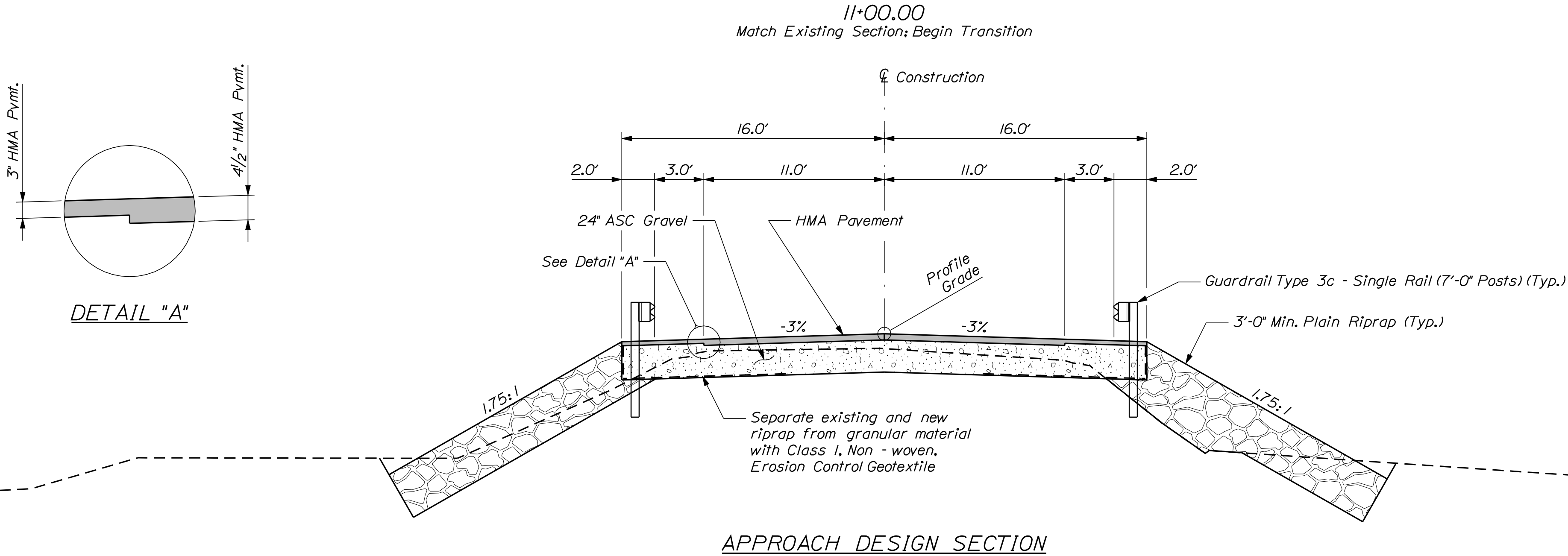
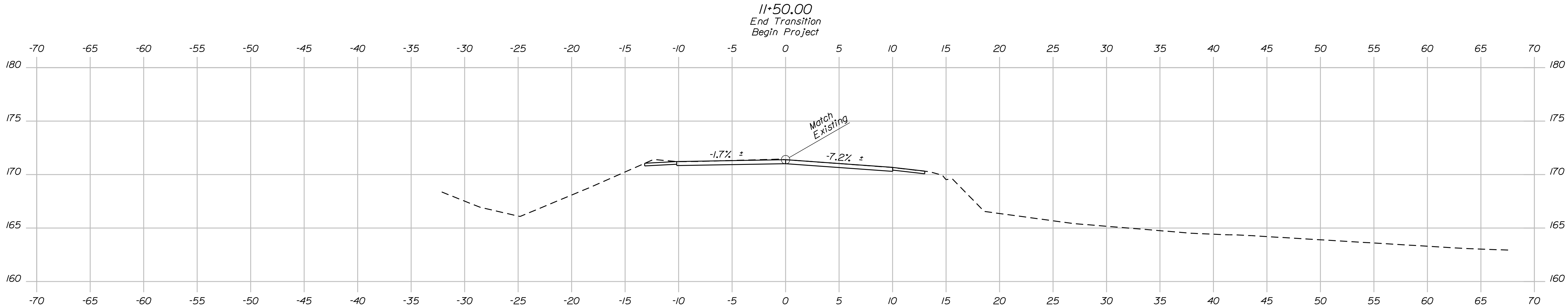
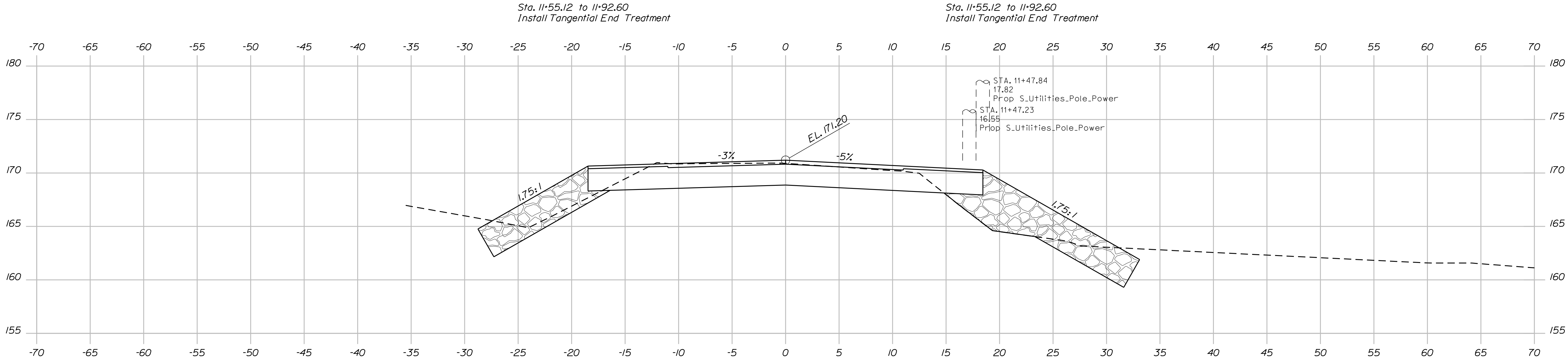
Boring No.: BB-MJS-101

Date: 8/30/2010

Username: alan.nadeau

Division: BRIDGE

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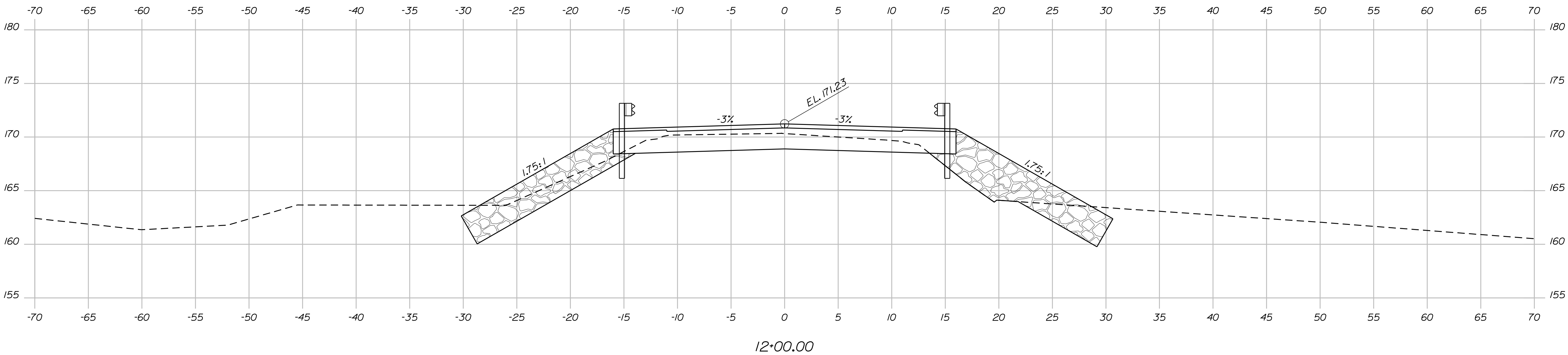
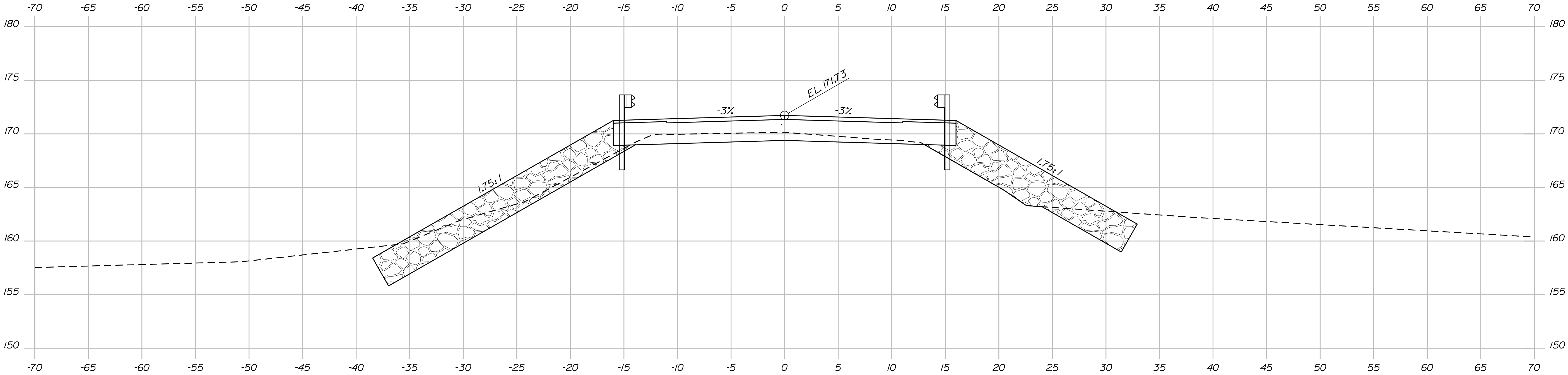
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BR-1671(600)X		PIN		BRIDGE NO. 2412		16716.00		BRIDGE PLANS	
JOCK STREAM BRIDGE		JOCK STREAM		KENNEBEC COUNTY		MONMOUTH		SHEET NUMBER		7		OF 18	
PROJ. MANAGER		K. Cummings		BY		Team South Aug. 2010		DATE		SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		R. Nadeau		CHECKED-REVIEWED		G. Gustafson		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2	
DESIGN-DETAILED		REVISIONS 3		REVISIONS 4		FIELD CHANGES		DATE		DATE		DATE	

Date:8/30/2010

Username: alan.nadeau

Division: BRIDGE

Filename: ... \msta\008_XSECT_12+00_002.dgn



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
BR-1671(600)X	
BRIDGE NO. 2412	PIN 16716.00
BRIDGE PLANS	

PROJ. MANAGER	K. Cummings	BY	DATE
DESIGN-DETAILED	R. Nious	Team	South Aug. 2010
CHECKED-REVIEWED	G. Gustafson		
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
		SIGNATURE	
		P.E. NUMBER	
		DATE	

JOCK STREAM BRIDGE	KENNEBEC COUNTY	CROSS SECTIONS
JOCK STREAM		
MONMOUTH		

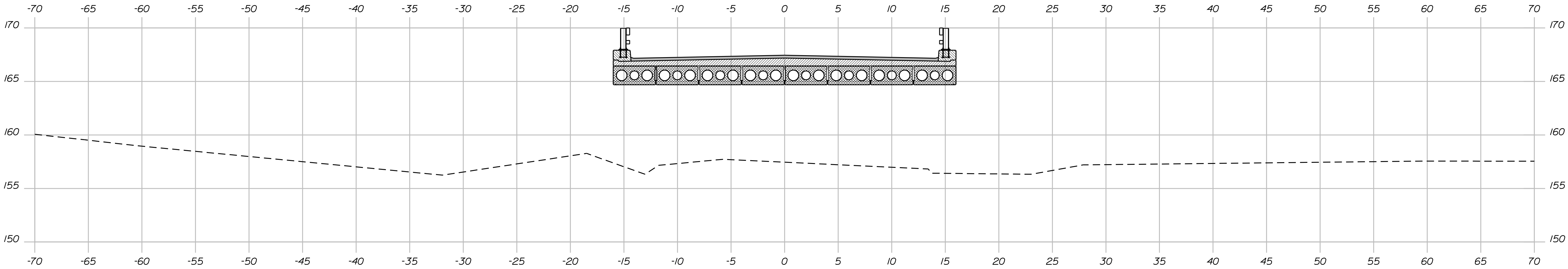
SHEET NUMBER
8
OF 18

Date:8/30/2010

Username: alan.nadeau

Division: BRIDGE

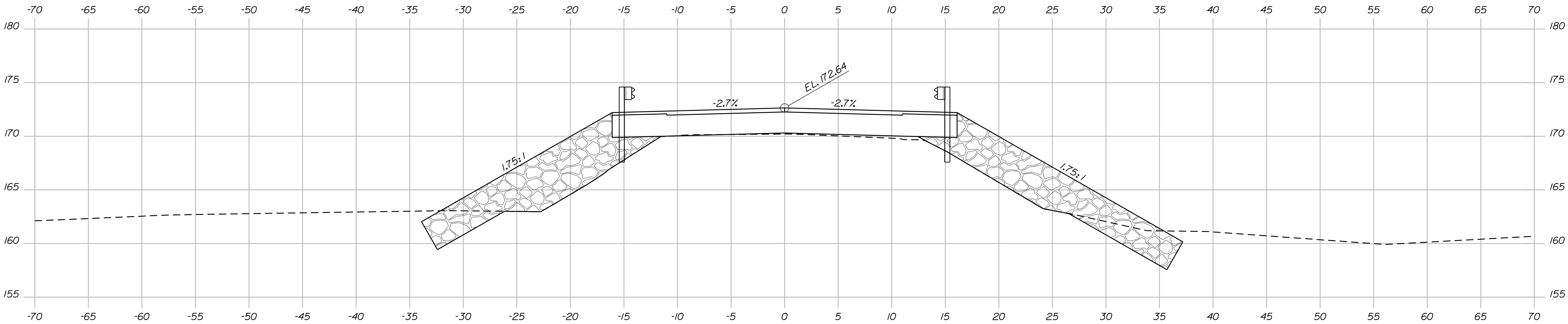
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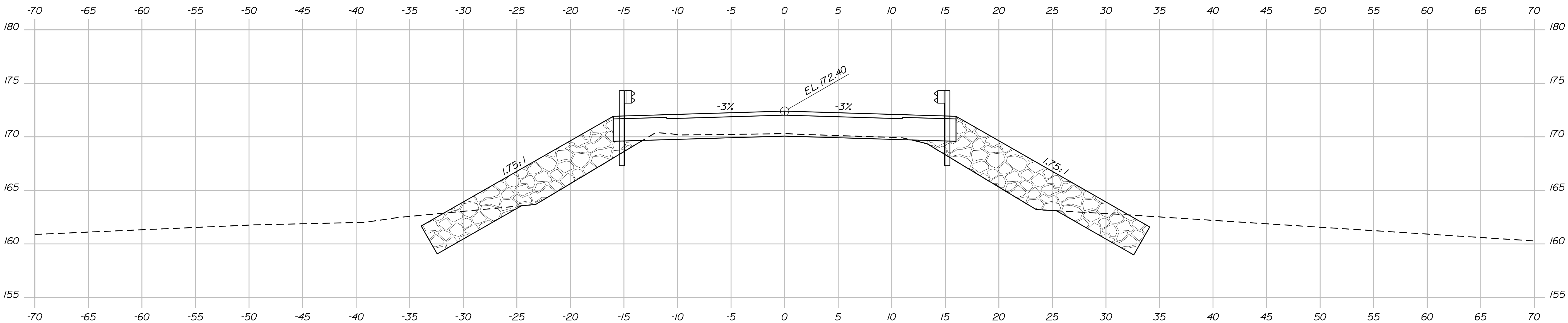
Sta. 13+67.60 to 13+86.35
Install Bridge Transition Type I
(7'-0" Posts)

BRIDGE
14+00.00

Sta. 13+67.60 to 13+86.35
Install Bridge Transition Type I
(7'-0" Posts)



13+50.00



13+00.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
BR-1671(600)X	
BRIDGE NO. 2412	PIN 16716.00
BRIDGE PLANS	

PROJ. MANAGER	BY	DATE
K. Cummings	Team	South Aug. 2010
CHECKED-DETAILED	DESIGNED	SIGNATURE
R. Nious	G. Gustafson	
DESIGNED-DETAILED	DESIGNED	P.E. NUMBER
REVISIONS 1	REVISIONS 1	DATE
REVISIONS 2	REVISIONS 2	
REVISIONS 3	REVISIONS 3	
REVISIONS 4	REVISIONS 4	
FIELD CHANGES	FIELD CHANGES	

JOCK STREAM BRIDGE	KENNEBEC COUNTY	CROSS SECTIONS
JOCK STREAM		
MONMOUTH		

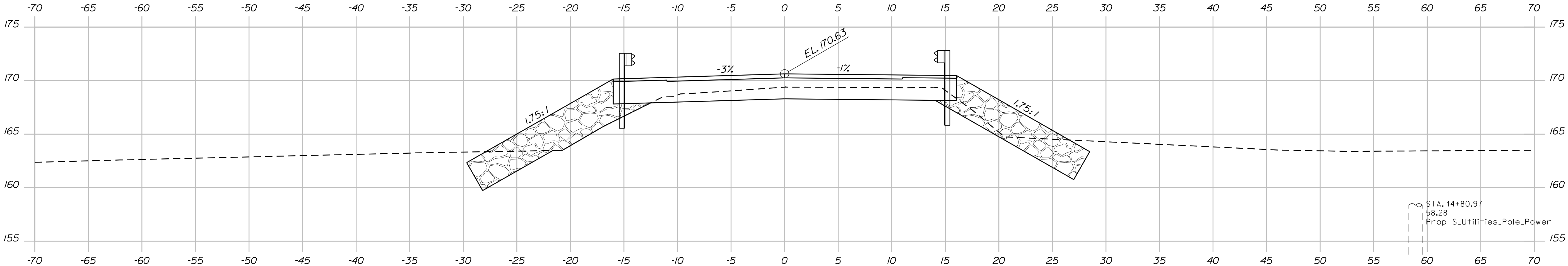
SHEET NUMBER
9
OF 18

Date:8/30/2010

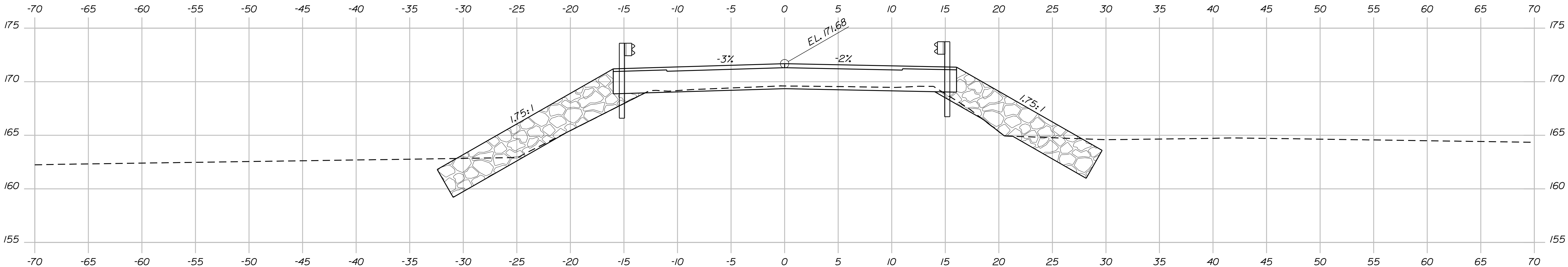
Username: alan.nadeau

Division: BRIDGE

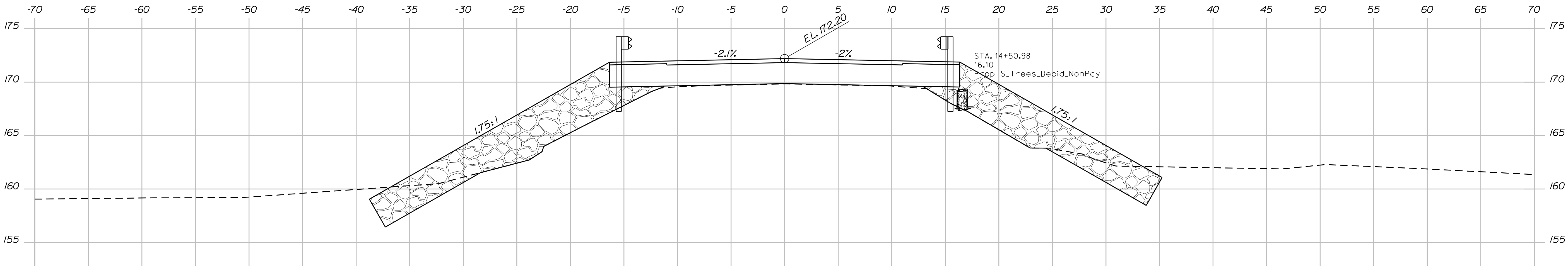
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15+50.00



15+00.00



14+50.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
BR-1671(600)X	
BRIDGE NO. 2412	PIN 16716.00
BRIDGE PLANS	

PROJ. MANAGER	BY	DATE
K. Cummings	Team	South Aug. 2010
CHECKED-DETAILED	DESIGNED	SIGNATURE
R. Nours	G. Gustafson	
DESIGNED-DETAILED	DESIGNED	P.E. NUMBER
REVISIONS 1	REVISIONS 2	DATE
REVISIONS 3	REVISIONS 4	
FIELD CHANGES		

JOCK STREAM BRIDGE	KENNEBEC COUNTY	CROSS SECTIONS
JOCK STREAM		
MONMOUTH		

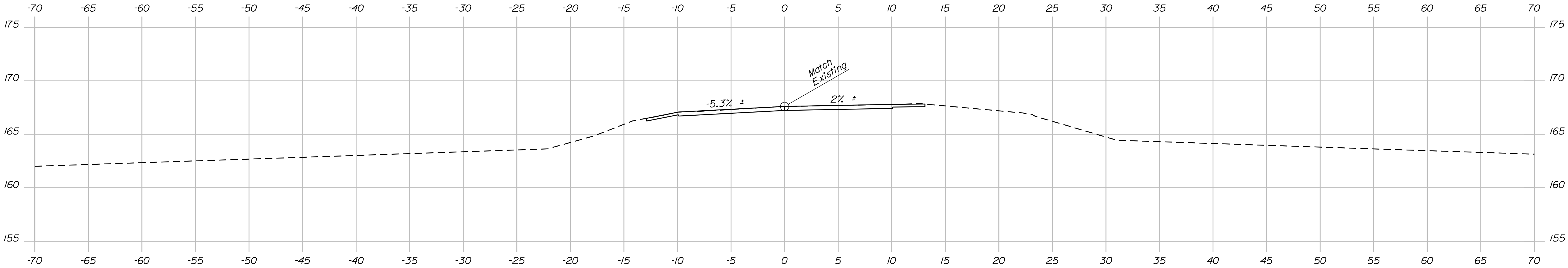
SHEET NUMBER
10
OF 18

Date:8/30/2010

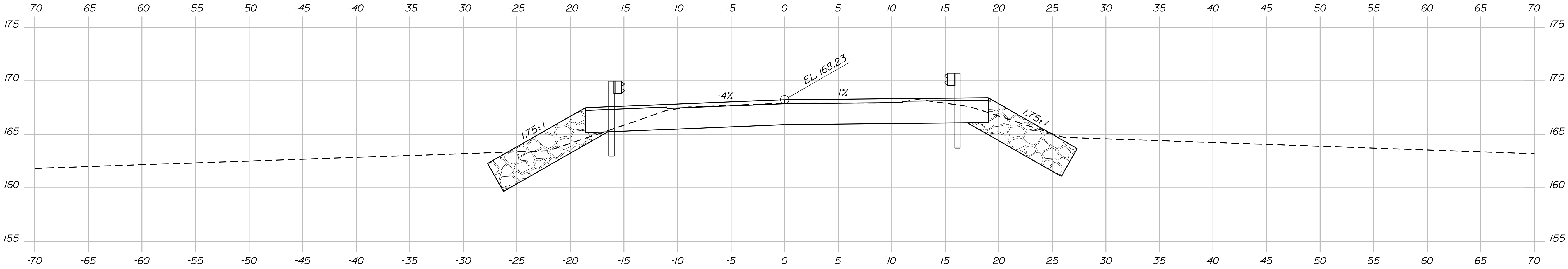
Username: alan.nadeau

Division: BRIDGE

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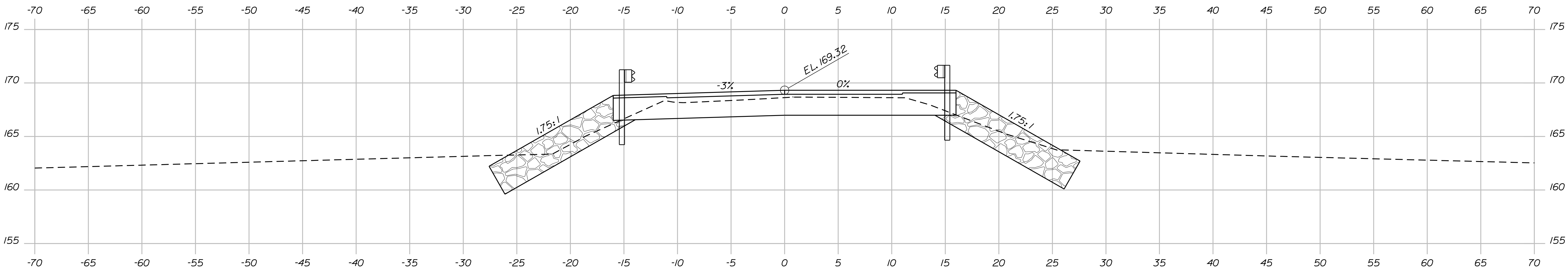
17+00.00
End Transition
Match Existing Section



Sta. 16+15.82 to 16+53.68
Install Tangential End Treatment

16+50.00
End Project
Begin Transition

Sta. 16+12.99 to 16+50.12
Install Tangential End Treatment



16+00.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
BR-1671(600)X	
BRIDGE NO. 2412	PIN 16716.00
BRIDGE PLANS	

PROJ. MANAGER	K. Cummings	BY	DATE
CHECKED-DETAILED	R. Nours	Team	South Aug. 2010
DESIGN-DETAILED	G. Gustafson		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

JOCK STREAM BRIDGE	KENNEBEC COUNTY
JOCK STREAM	
MONMOUTH	CROSS SECTIONS

SHEET NUMBER
11
OF 18

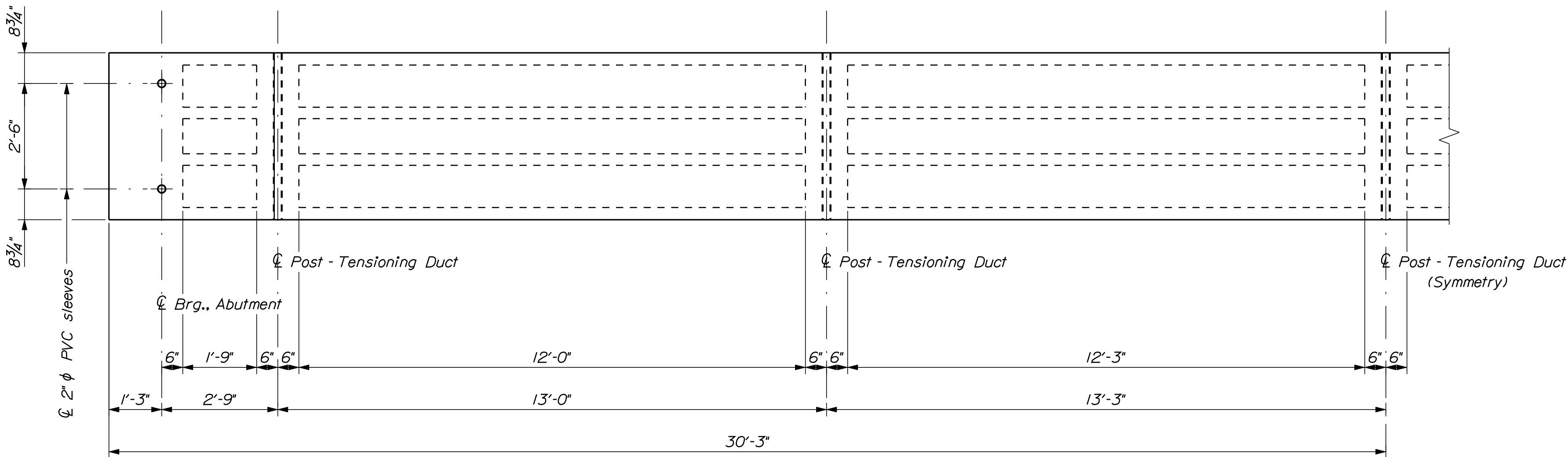


2. *H-pile material shall be ASTM A 709, Grade 50W.*
3. *Piles shall not be out of position shown by more than 2 inches in any direction.*
4. *Estimate of piles required including embedment in Abutments:*
5 ~ HP 14x89 @ 127 feet
Abutment No. 1: 5 ~ HP 14x89 @ 127 feet
Abutment No. 2:
5. *The Contractor shall make provisions in ordered pile lengths to account for additional length needed to accommodate the leads and an additional 4 feet needed for those piles undergoing dynamic testing.*
6. *All piles shall be equipped with a pile tip in accordance with Standard Specifications Section 501.10, Prefabricated Pile Tips.*
7. *The Contractor shall perform and submit a wave equation analysis for review and acceptance by the Resident. The maximum allowable driving stress is 0.90 times F_y . The submittal analyses shall include the proposed stopping criteria based on the wave equation analysis and the proposed driving system. The stopping criteria shall include the blows per inch and the number of 1-in. intervals at which pile installation may be terminated. The cost of performing the wave equation analysis will be considered incidental to Item No. 501.92, Pile Driving Equipment Mobilization.*
8. *The Contractor shall perform 2 dynamic load test(s) to confirm the ultimate capacity of the piles, and verify or revise the proposed driving/stopping criteria. The required nominal resistance for the pile is the factored axial pile load divided by a resistance factor of 0.65 per LRFD Specifications. The dynamic test shall be performed on the first production pile driven, and the remainder of the production piles driven with the driving/stopping criteria indicated by the dynamic load test.*

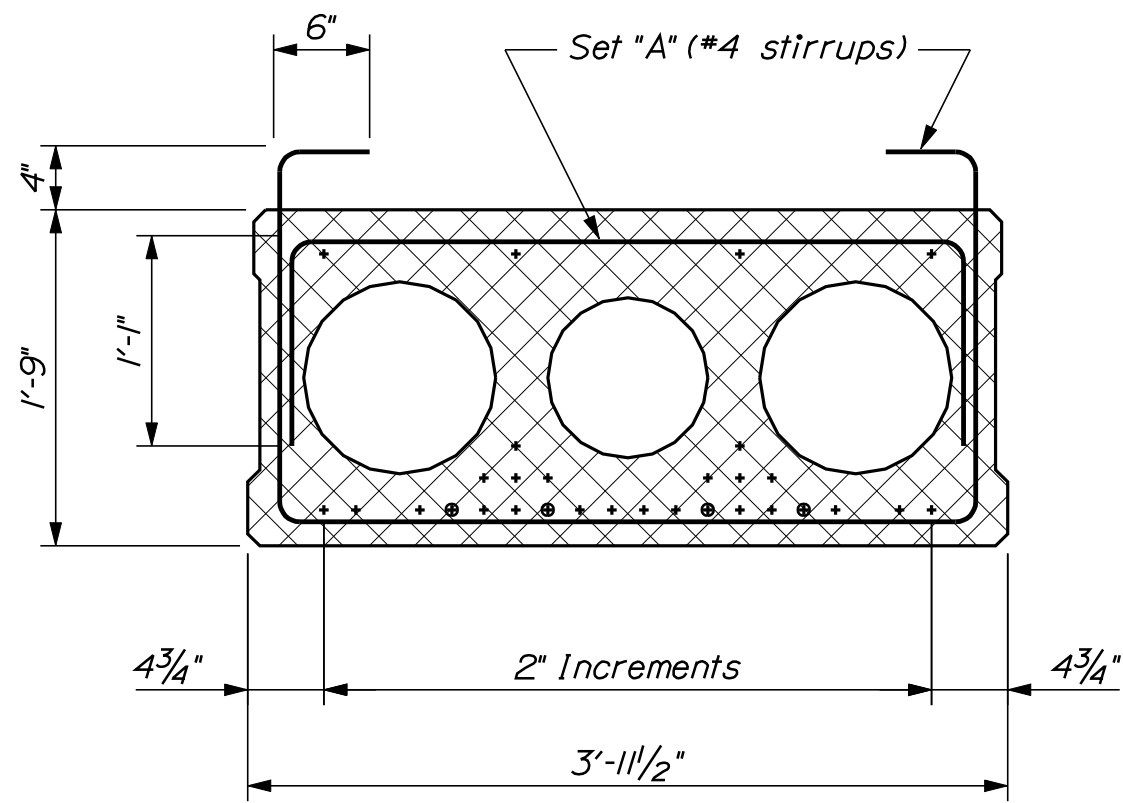
12. The Contractor shall perform one (1) dynamic test and one (1) restrrike load test after 24 hours at each abutment to confirm the nominal resistance of the pile. The required nominal resistance of the piles is the maximum factored axial load divided by a resistance factor of 0.52 per LRFD Specifications. Each dynamic load test and restrrike will be performed on the first production pile driven at each abutment location in accordance with Standard Specification 501.

1. *Structural Earth Excavation, Abutments and Retaining Walls, required more than 12 inches below the bottom of the structure, will be paid for in accordance with Standard Specifications Section 206, Structural Excavation.*
2. *Reinforcing steel shall have a minimum concrete cover of 3.0 inches.*
3. *Cover joints where waterstops are not required in accordance with Standard Details Section 502.*
4. *Abutments and wingwalls shall be backfilled with Granular Borrow. Pay limits will be the structural excavation limits in cut areas and a vertical plane located 10 feet behind the walls in fill areas.*
5. *The tension development length for the #8 bars in the Far Face (FF) of the wing wall Section(B-B) is to be at least 2'-6" past the centerline of the exterior piles.*

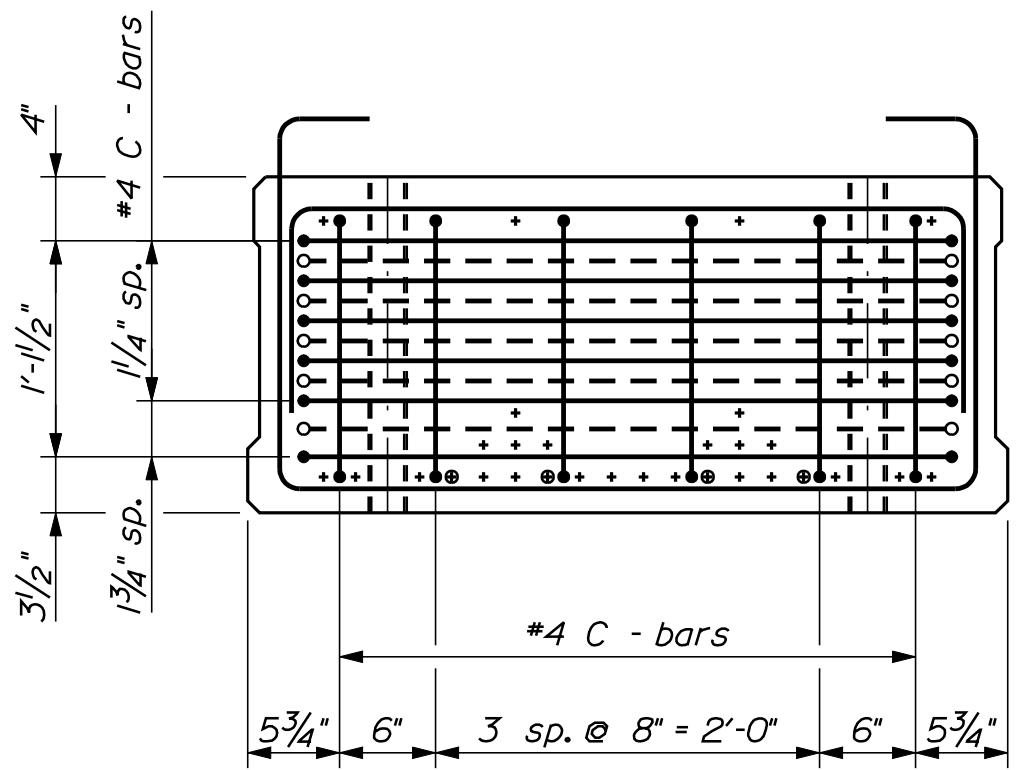
SHEET NUMBER 13 OF 18			JOCK STREAM BRIDGE JOCK STREAM MONMOUTH KENNEBEC COUNTY			PROJ. MANAGER			K. Cummings	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
						DESIGN-DETAILED			R. Nodis	Team	South			
ABUTMENT DETAILS			CHECKED-REVIEWED			C. Gustafson			SIGNATURE					
			DESIGN2-DETAILED2			DESIGN3-DETAILED3								
			REVISIONS 1			P.E. NUMBER								
			REVISIONS 2			DATE								
			REVISIONS 3											
REVISIONS 4						BRIDGE NO. 2412			PIN 16716.00			BRIDGE PLANS		
FIELD CHANGES														



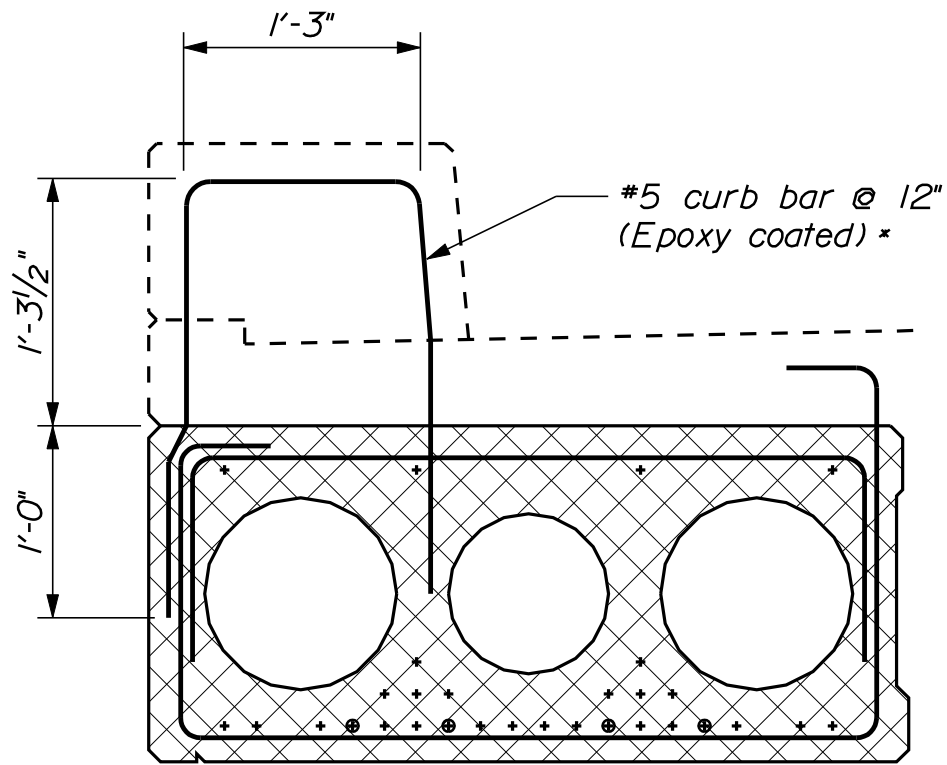
HALF VOIDED SLAB PLAN



TYPICAL VOIDED SLAB SECTION
S48-21
• Strands debonded 4'-0" at each end

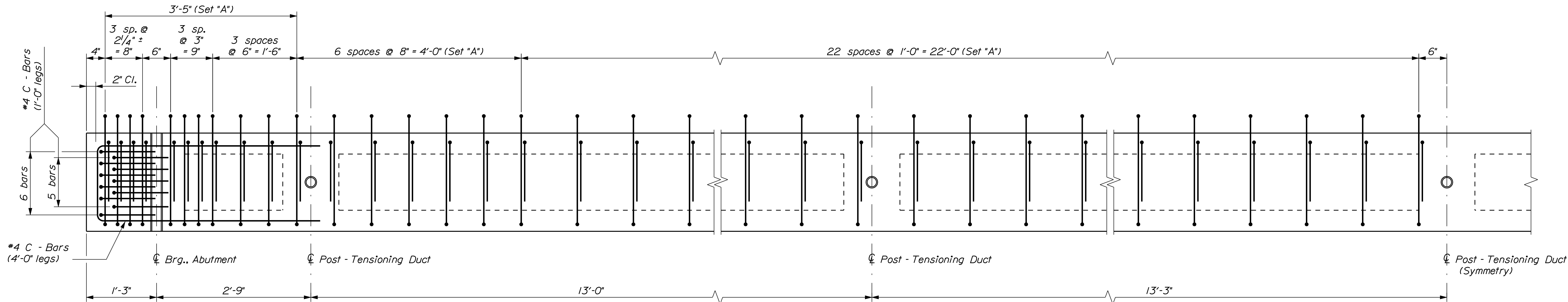


END BLOCK DETAIL



EXTERIOR VOIDED SLAB SECTION

* Provide 3 additional epoxy coated curb bars at each rail post location and at each Transition Barrier.

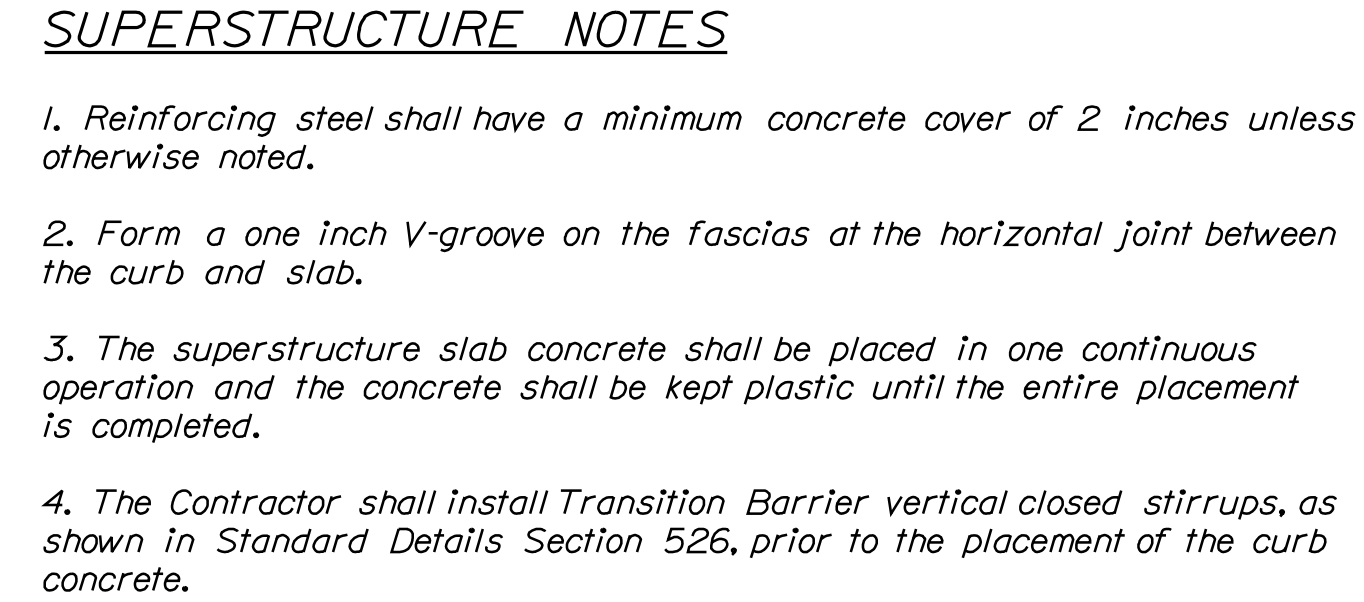


HALF VOIDED SLAB REINFORCING ELEVATION

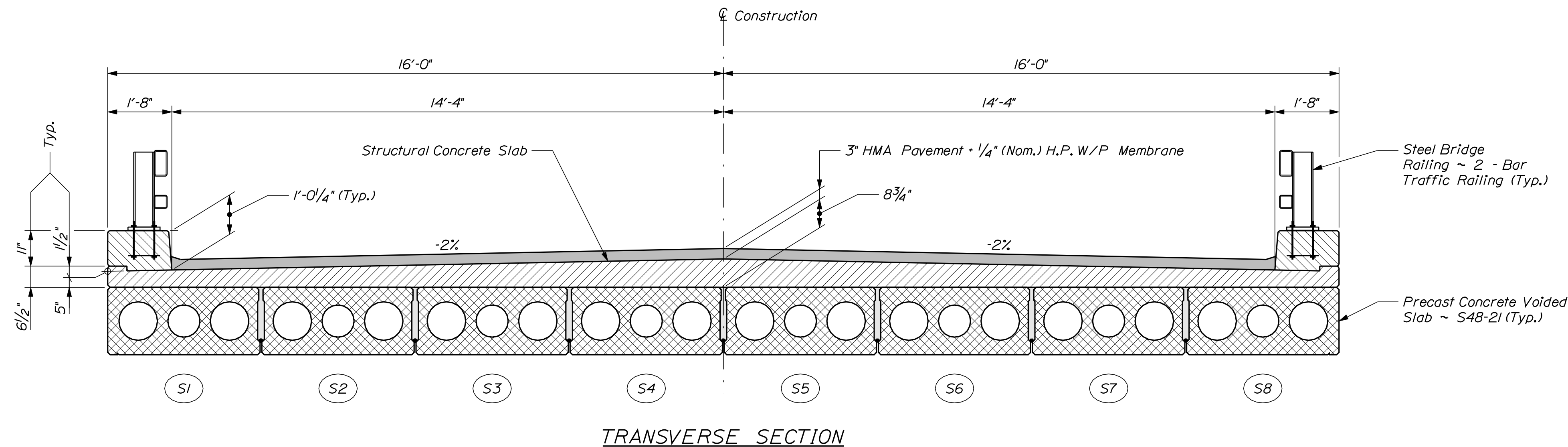
PRECAST CONCRETE SUPERSTRUCTURE NOTES

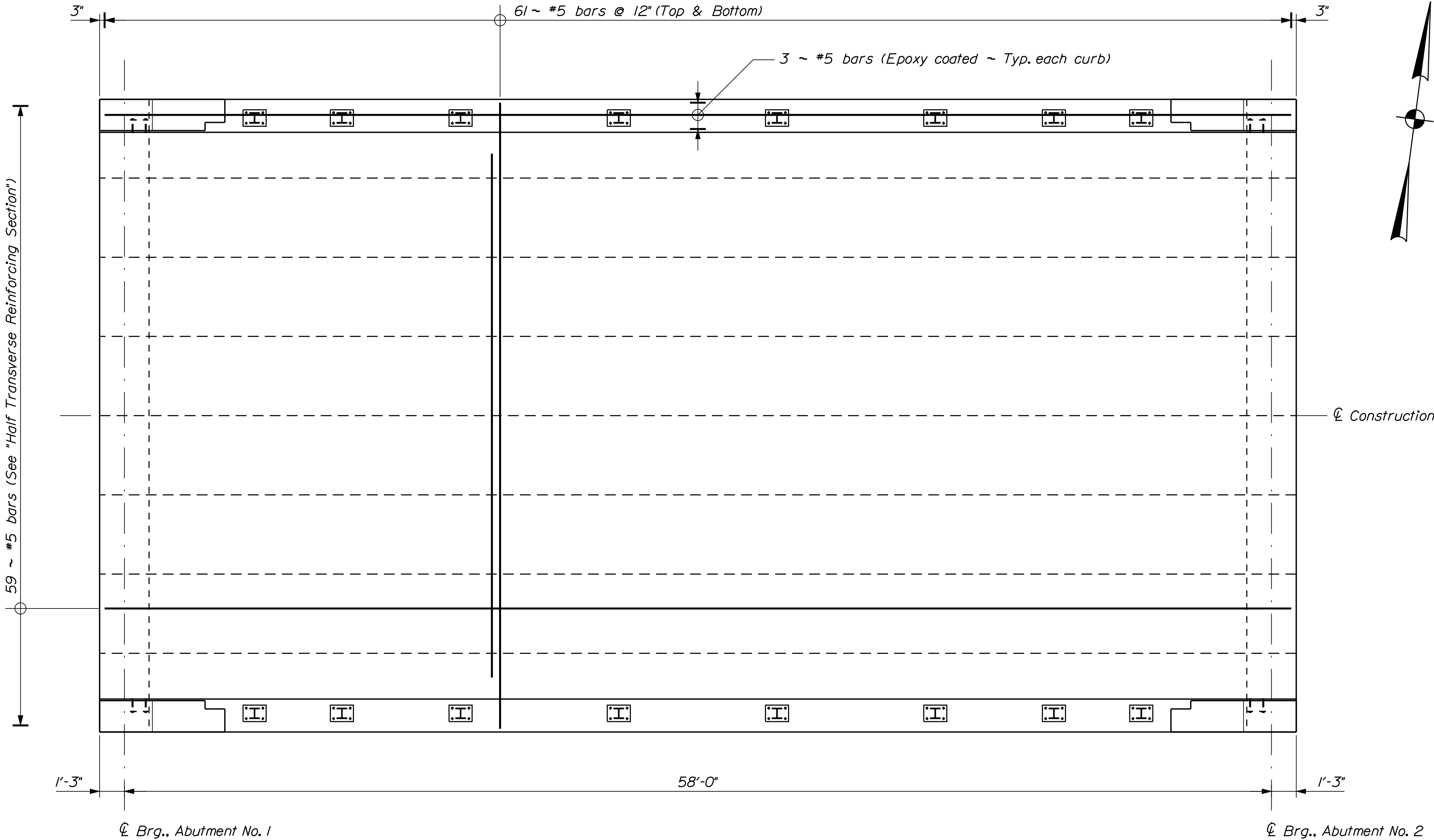
1. Prestressing strands shall be 0.6-in. diameter. The tensioning force is 44 kips per prestressing strand.
2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
3. Install a 1-in. diameter nonmetallic void drain in the bottom of each void at both ends.
4. The top surface of the upper flange of the prestressed beams shall be raked to a surface roughness of $\pm 1/4$ inch.
5. The drilling of holes in the prestressed beams and the use of power actuated tools on the beams will not be permitted.
6. Neoprene pads shall be either polychloroprene or natural polyisoprene of 50 ± 5 Shore A durometer hardness, and shall conform to the requirements of Division 2, Section 18.2 of AASHTO Standard Specifications for Highway Bridges. Neoprene pads will not be paid for directly but will be considered incidental to related contract items.
7. Post tensioning shall be covered by a seamless polypropylene sheath, with corrosion inhibiting grease between the strands and sheath, for the full length of the strand except at the anchorage location.
8. The Contractor shall calibrate the jacking equipment as necessary to provide an anchorage of 38 to 41 kips after setting losses in each 0.6-in. diameter post tensioning strand.
9. Screed rails shall be installed to the elevation shown on the profile, adjusted for wearing course thickness and cross slope.

STATE OF MAINE									
DEPARTMENT OF TRANSPORTATION									
BR-1671(600)X									
BRIDGE NO. 2412									
PIN 16716.00									
BRIDGE PLANS									
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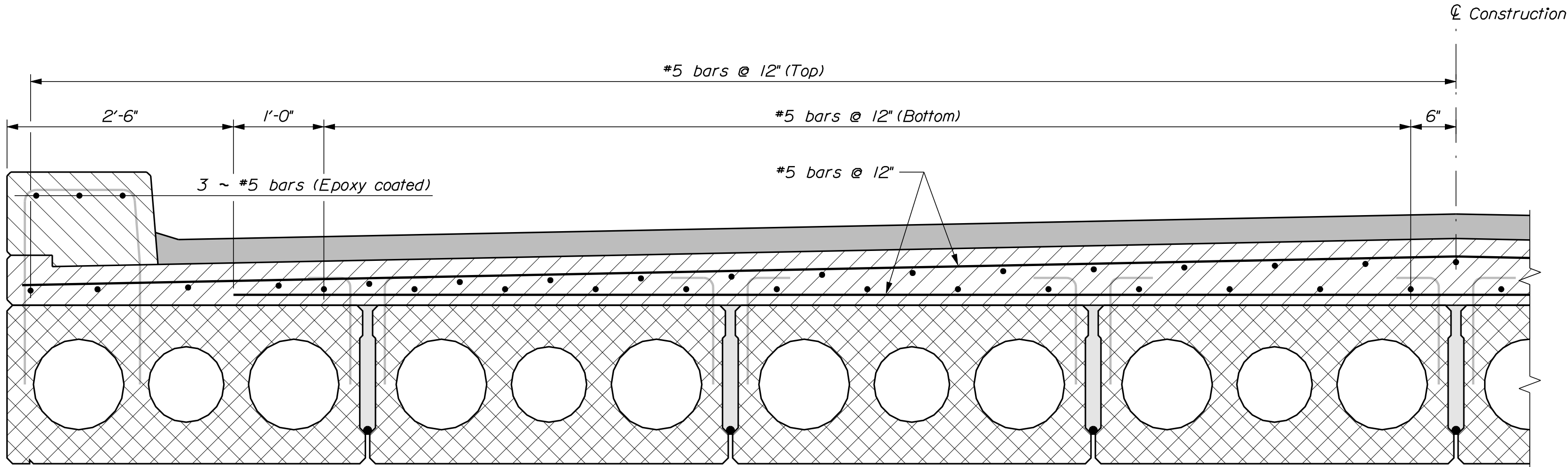


SUPERSTRUCTURE PLAN





SUPERSTRUCTURE REINFORCING PLAN



HALF TRANSVERSE REINFORCING SECTION

SHEET NUMBER				STATE OF MAINE			
16				DEPARTMENT OF TRANSPORTATION			
				BR-1671(600)X			
				PIN			
				16716.00			
BRIDGE NO. 2412				BRIDGE PLANS			
JOCK STREAM BRIDGE JOCK STREAM MONMOUTH KENNEBEC COUNTY SUPERSTR. REINFORCING				PROJ. MANAGER	K. Cummings	BY	DATE
				DESIGN-DETAILED	R. Nodous	Team	South
				CHECKED-REVIEWED	R. Gustafson		
				DESIGN2-DETAILED2			
				DESIGN3-DETAILED3			
				REVISIONS 1			
				REVISIONS 2			
				REVISIONS 3			
				REVISIONS 4			
				FIELD CHANGES			

1

ROAD CLOSED
500 FT.
48" X 48"

2

ROAD CLOSED
1000 FT.
48" X 48"

3

DETOUR
AHEAD
48" X 48"

4

ROAD CLOSED
AHEAD
48" X 48"

5

HARDSCRABBLE RD.
48" X 12"
DETOUR
30" X 24"

6

HARDSCRABBLE RD.
48" X 12"
DETOUR
30" X 24"

7

COBBOSSEE RD.
46" X 12"
DETOUR
30" X 24"

8

COBBOSSEE RD.
46" X 12"
DETOUR
30" X 24"

9

END
DETOUR
30" X 24"

10

ROAD CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY
48" X 18"

11

ROAD
CLOSED
48" X 30"

12

ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
DETOUR
48" X 18"
60" X 30"

13

LOCAL
TRAFFIC
ONLY
36" X 36"

14

DETOUR
500 FT.
48" X 48"

15

ROAD CLOSED
1 MILE
AHEAD
48" X 48"



General Notes

- 1) Other signs may be needed as directed by the Resident.
- 2) Bi-directional yellow TOM's shall be placed along center of roadway, on hill crests and curves of Whipporwill and Town Farm Roads.

NOT TO SCALE

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
JOCK STREAM BRIDGE		BR-1671(600)X	
JOCK STREAM		PIN 16716.00	
MONMOUTH		BRIDGE NO. 2412	
KENNEBEC COUNTY		BRIDGE PLANS	
DETOUR PLAN		SHEET NUMBER	
		17	
		OF 18	

SEE SUBDIVISION OF ADELARD GAGNE
BY ALIBERTI, LAROCHELLE & HODSON ENGINEERING CORP., INC.
RECORDED KENNEBEC COUNTY REGISTRY OF DEEDS
PLAN BOOK 44 PAGE 3
1973

TAX MAP 24
LOT 117-1

TAX MAP 24
LOT 116

N/F
PAUL J. POLIQUIN

HEIRS OF ADELARD A. GAGNE
PARCEL NO. (2)
LAND TAKEN = $870 \pm$ S.F. (PRESC. EASE.)
LAND TAKEN = $1420 \pm$ S.F. (OTHER)
TOTAL LAND TAKEN = $0.05 \pm$ AC.
SLOPE EASE. = $1465 \pm$ S.F. (1)
TOTAL AREA = $1.0 \pm$ AC. (CALC.)
REM. AREA = $0.95 \pm$ AC.

CURVE DATA #1
 PI = 16+45.72
 D = 3°49'11.0"
 Δ = 13°53'50.3" Lt.
 R = 1500.00'
 L = 363.83'
 T = 182.81'
 E = 11.10'

CATHERINE SQUIRES
EDMUND ZUIS
PARCEL NO. (4)
LAND TAKEN = 0.14± AC. (PRESC. EASE.)
LAND TAKEN = 0.09± AC. (OTHER)
TOTAL LAND TAKEN = 0.23± AC.
TOTAL AREA = 23.4± AC. (CALC.)
REM. AREA = 23.17± AC.

GREGORY G. CHAPMAN
PARCEL NO. (5)
LAND TAKEN = 0.13± AC. (PRESC. EASE.)
LAND TAKEN = 0.05± AC. (OTHER)
TOTAL LAND TAKEN = 0.18± AC.
TOTAL AREA = 5.0± AC. (DEED)
REM. AREA = 4.82± AC.

AUDREY G. FULLERTON
PARCEL NO. (3)
LAND TAKEN = 655± S.F. (PRESC. EASE.)
LAND TAKEN = 1665± S.F. (OTHER)
TOTAL LAND TAKEN = 0.05± AC.
TOTAL AREA = 23.5± AC. (CALC.)
REM. AREA = 23.45± AC.

THOMAS A. JOHNSON
DIANNE E. JOHNSON
PARCEL NO. (1)
LAND TAKEN = 905± S.F. (PRESC. EASE.)
LAND TAKEN = 1150± S.F. (OTHER)
TOTAL LAND TAKEN = 0.05± AC.
SLOPE EASE. = 1710± S.F. (1)
TOTAL AREA = 8.8± AC. (CALC.)
REM. AREA = 8.75± AC.

NOTE: PARCEL NO. (1), PROPERTY LINE PER DEED DESCRIPTION REFERS TO AN IRON PIN NEAR THE EDGE OF JOCK STREAM. ALL AREAS IN PARCEL SETUP CALCULATED TO THE THREAD OF STREAM.

SEE AMENDMENT OF LOT 1
TO CREATE LOT 1A OF
PLEASANT VIEW ACRES
FOR WILLIAM AND JULIA MIKULKA
BY ACME ENGINEERING & DESIGN, INC.
1993
RECORDED: KENNEBEC REGISTRY OF DEEDS
FILE NO. D-93157

SEE FINAL LOTS MAP
PLEASANT VIEW ACRES
BY ACME ENGINEERING & DESIGN, INC.
1976
RECORDED: KENNEBEC REGISTRY OF DEEDS
BOOK D-76 PAGE 100

KENNEBEC COUNTY
VOL. 5 PAGE 355
1826
4 RODS WIDE

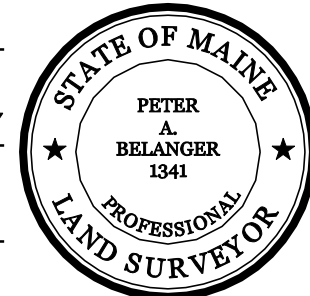
To the best of my knowledge and belief the Highway Right of Way lines depicted hereon are based upon a survey conforming to the Standards of Practice promulgated by the Maine Board of Licensure for Professional Land Surveyors 02-360 CMR, Chapter 90; Exceptions: (1) No separate survey report, (2) Monumentation only as shown on plan. See sheet X of this plan set for coordinates. (3) Other boundary lines, including lines between abutters are approximate and for general reference purposes only.

NOTE: PRESCRIPTIVE EASEMENT
FOR HIGHWAY PURPOSES WITHIN
LIMITS OF WROUGHT PORTION

TAX MAP 19
LOT 21

SEE BOUNDARY SURVEY FOR
GREGORY G. CHAPMAN
BY PICKETT LAND SURVEY, INC.
1999
RECORDED: KENNEBEC COUNTY REGISTRY OF DEEDS
PLAN FILE D99 PAGE 139

BRIDGE NO. 2412	JOCK STREAM BRIDGE OVER JOCK STREAM	PIN 16716.00
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[illegible]

STATE AID HIGHWAY NO. 3 COBBOSSEECONTEE ROAD MONMOUTH KENNEBEC COUNTY FEDERAL AID PROJECT NO. BR-1671(600)X		
JULY 2010	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-436
SCALE 1" = 25'	SHEET 1 OF 1	

SHEET NUMBER

18

OF 18