

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 950
Future (2039) AADT 1050
DHV - % of AADT 13
Design Hour Volume 136
Heavy Trucks (% of AADT) 6
Heavy Trucks (% of DHV) 3
Directional Distribution (% of DHV) 60
18 kip Equivalent P 2.0 22
18 kip Equivalent P 2.5 21
Design Speed (mph) 45

HYDROLOGIC DATA

Drainage Area 25.1 sq mi
Design Discharge (Q50) 976.2 cfs
Check Discharge (Q100) 1,110.3 cfs
Headwater Elevation (Q1.1) 55.86 ft
Headwater Elevation (Q25) 56.62 ft
Headwater Elevation (Q50) 57.20 ft
Headwater Elevation (Q100) 57.65 ft
Discharge Velocity (Q1.1) 1.98 fps
Discharge Velocity (Q50) 4.66 fps
Discharge Velocity (Q100) 4.98 fps

MATERIALS

Concrete:
Curbs Class "LP"
Precast Class "P"
All Other Class "A"
Plain Reinforcing Steel ASTM A 615/A 615M, Grade 60
Low-Carbon Chromium Steel ASTM A1035, Type CS, Grade 100
Glass Fiber Reinforced Polymer (GFRP) ASTM D7957
Prestressing Strands AASHTO M 203 (ASTM A 416),
Grade 270, Low Relaxation

Steel H-Piles ASTM A 572, Grade 50

BASIC DESIGN STRESSES

Concrete (Curbs and All Other) f 'c = 4000 psi
Concrete (Precast) f 'c = 7500 psi
f 'ci = 6000 psi
Reinforcing Bars:
Plain Reinforcing Steel f y = 60,000 psi
Prestressing Strand Fu = 270,000 psi
Glass Fiber Reinforced Polymer (GFRP)
#5 Ffu=100,000 psi
#6 Ffu=100,000 psi
#7 Ffu=95,000 psi
Minimum Elastic Modulus Ef=6,150,000 psi
Minimum Nominal Design Tensile Strain Ef=1.226%
Low-Carbon Chromium Reinforcing Steel Fy=100,000 psi
Steel H-Piles Fy=50,000 psi

WINSLOW
KENNEBEC COUNTY
FISH BRIDGE
OVER
PATTEE POND BROOK
GARLAND ROAD
FEDERAL PROJECT NO. 2783601
PROJECT LENGTH 0.104 mi.
BRIDGE NO. 0509

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UTILITIES

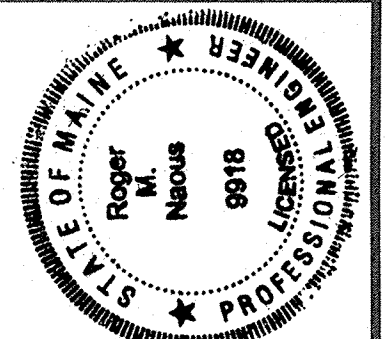
Central Maine Power
Charter Communications Inc.
Consolidated Communications

MAINTENANCE OF TRAFFIC

Bridge will be closed during construction with traffic detoured.

PROJECT LOCATION	Fish Bridge (#0509) over Winslow Stream. Located 0.10 mile southwest of the Benton town line. Lat./Long. 44°34'11.2" N 69°33'49.4" W
PROGRAM AREA	Highway Bridge - Traditional
OUTLINE OF WORK	Bridge Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER: <i>[Signature]</i>	10-28-24
CHIEF ENGINEER: <i>[Signature]</i>		10-23-2024



<i>[Signature]</i>	SIGNATURE
9218	P.E. NUMBER
JUL 24 2024	DATE

PROJECT INFORMATION	
PROGRAM	BRIDGE
PROJECT MANAGER	BRIAN NICHOLS
DESIGNER	ROGER NAUUS
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WINSLOW FISH BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 35

Date: 7/19/2024

Username: Mark Poulin

Division: BRIDGE

Filename: \\01\BRIDGE\WSTA\001_Title.dgn

WIN 27836.01

2783601

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	7	EA
201.24	REMOVING STUMP	7	EA
202.19	REMOVING EXISTING BRIDGE (130 CY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	138	SY
203.20	COMMON EXCAVATION	1,000	CY
203.24	COMMON BORROW	200	CY
203.25	GRANULAR BORROW	181	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	678	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	780	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	142	T
403.209	HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, ISLANDS, & INCIDENTALS)	16	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	224	T
409.15	BITUMINOUS TACK COAT - APPLIED	90	G
501.231	DYNAMIC LOADING TEST	2	EA
501.50	STEEL H-BEAM PILES 89 LBS/FT, DELIVERED	375	LF
501.501	STEEL H-BEAM PILES 89 LBS/FT, IN PLACE	305	LF
501.90	PILE TIPS	10	EA
501.92	PILE DRIVING EQUIPMENT MOBILIZATION	1	LS
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS (97 CY)	1	LS
502.291	SAW-CUT GROOVING (1,950 SF)	1	LS
502.31	STRUCTURAL CONCRETE APPROACH SLABS (22 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS & SIDEWALKS (6 CY)	1	LS
503.12	REINFORCING STEEL - FABRICATED & DELIVERED	15,100	LB
503.13	REINFORCING STEEL - PLACING	15,100	LB
507.0821	STEEL BRIDGE RAILING, 3-BAR (136 LF)	1	LS
507.0822	STEEL APPROACH RAILING, 3-BAR	4	EA
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (40 SY)	1	LS
526.301	PORTABLE CONCRETE BARRIER TYPE 1 (150 LF)	1	LS
531.511	BRIDGE SUPERSTRUCTURE - DETAIL BUILD	1	LS
603.16	15' CULVERT PIPE OPTION 1	100	LF
606.1301	31" W-BM GR, MID-WAY SPLICE-SGL FACED	194	LF
606.1303	31" W-BM GR, MID-WAY SPLICE-15' RAD AND LESS	12.5	LF
606.1304	31" W-BM GR, MID-WAY SPLICE-OVER 15' RAD	25	LF
606.1305	31" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	1	EA
606.1721	BRIDGE TRANSITION - TYPE 1	4	EA
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	3	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.08	PLAIN RIPRAP	705	CY
610.18	STONE DITCH PROTECTION	25	CY
610.203	FEATURE ROCKS	12	EA
610.213	VOID-FILLED RIPRAP	300	CY
613.319	EROSION CONTROL BLANKET	80	SY
615.07	LOAM	77	CY
618.14	SEEDING METHOD NUMBER 2	14	UN
619.12	MULCH	14	UN
619.14	EROSION CONTROL MIX	154	CY
620.58	EROSION CONTROL GEOTEXTILE	1,410	SY
620.66	DRAINAGE GEOCOMPOSITE	70	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	550	LF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	550	LF
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	TYPE III BARRICADE	6	EA
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	250	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	100	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

1. 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. 57.20' shall be Granular Borrow meeting the requirements of Standard Specifications Subsection 703.19, Granular Borrow, for Material for Underwater Backfill.
8. Place riprap on sideslopes up to EL. 57.20
9. Disturbance of the sensitive Marine Clay subgrade at the toes of reconstructed sideslopes and abutment foreslopes shall be avoided during the reconstruction to mitigate against liquefaction and strength loss.
10. Construct the riprap shelf at Abutment No. 1 at EL. 58.50 and Abutment No. 2 at EL. 57.00.
11. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
12. 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.
13. A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
14. Where it is apparent that runoff will cause continual erosion, Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed. Payment will be made under the appropriate Contract items.
15. Protective Coating for Concrete Surfaces shall be applied to the following areas:

All exposed surfaces of concrete:
curbs
Fascias down to the drip notch
Top of abutment backwalls and wingwalls

16. The project geotechnical report titled: Geotechnical Design Report for the Replacement of Fish Bridge, Garland Road over Pattee Pond Brook, Winslow, Maine, Soils Report 2023-22, dated October 23, 2023 may be accessed at the MaineDOT web address.
17. 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.
18. 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.
19. The existing bridge shall be removed by and become the property of the Contractor. The steel portions of the existing bridge may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the bridge. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing bridge is removed, the Contractor is solely responsible for the care, custody, and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling, or disposal of the bridge components, including lead-coated steel. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Payment for all labor, materials, equipment, and other costs required to remove and dispose of the existing bridge will be considered incidental to the bridge removal pay item.
20. Payment for removal of existing concrete that is in the streambed shall be included in Item 202.19, Removing Existing Bridge. Payment for excavation and grading of reconstructed streambed shall be paid for under Item 203.20, Common Excavation.
21. There is an existing stream feature of accumulated deposits (pushbar) that exists approximately 15' downstream of the existing box. This feature is essential to the functioning of the proposed reconstructed stream profile and shall remain undisturbed. See Streambed Profile for more precise location.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2783601

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BRIDGE NO. 0509
BRIDGE PLANS

FISH BRIDGE
PATTEE POND BROOK
WINSLOW
KENNEBEC COUNTY

ESTIMATED QUANTITIES &
GENERAL CONSTRUCTION NOTES

PROJ. MANAGER
DESIGN-DETAILED
CHECKED-REVIEWED
DESIGN-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

DATE
9/15/22
9/15/22

BY
B. NICHOLS
MRP
BIN

SIGNATURE

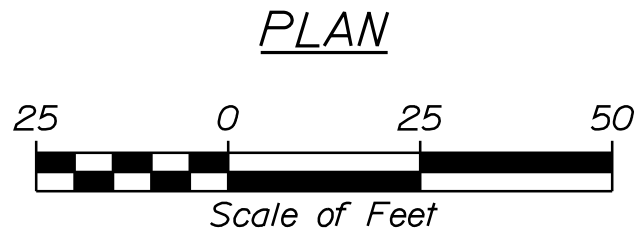
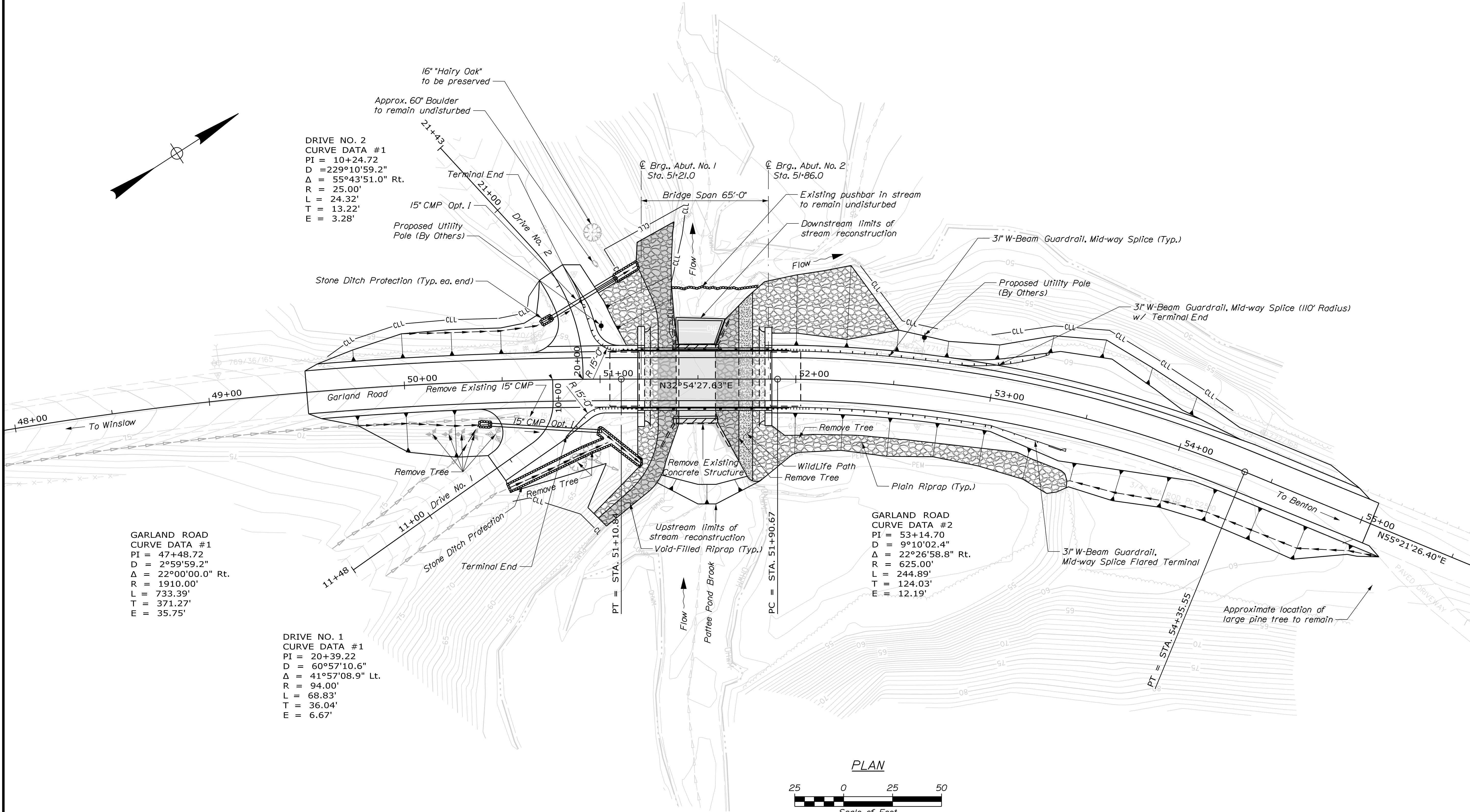
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DATE

SHEET NUMBER

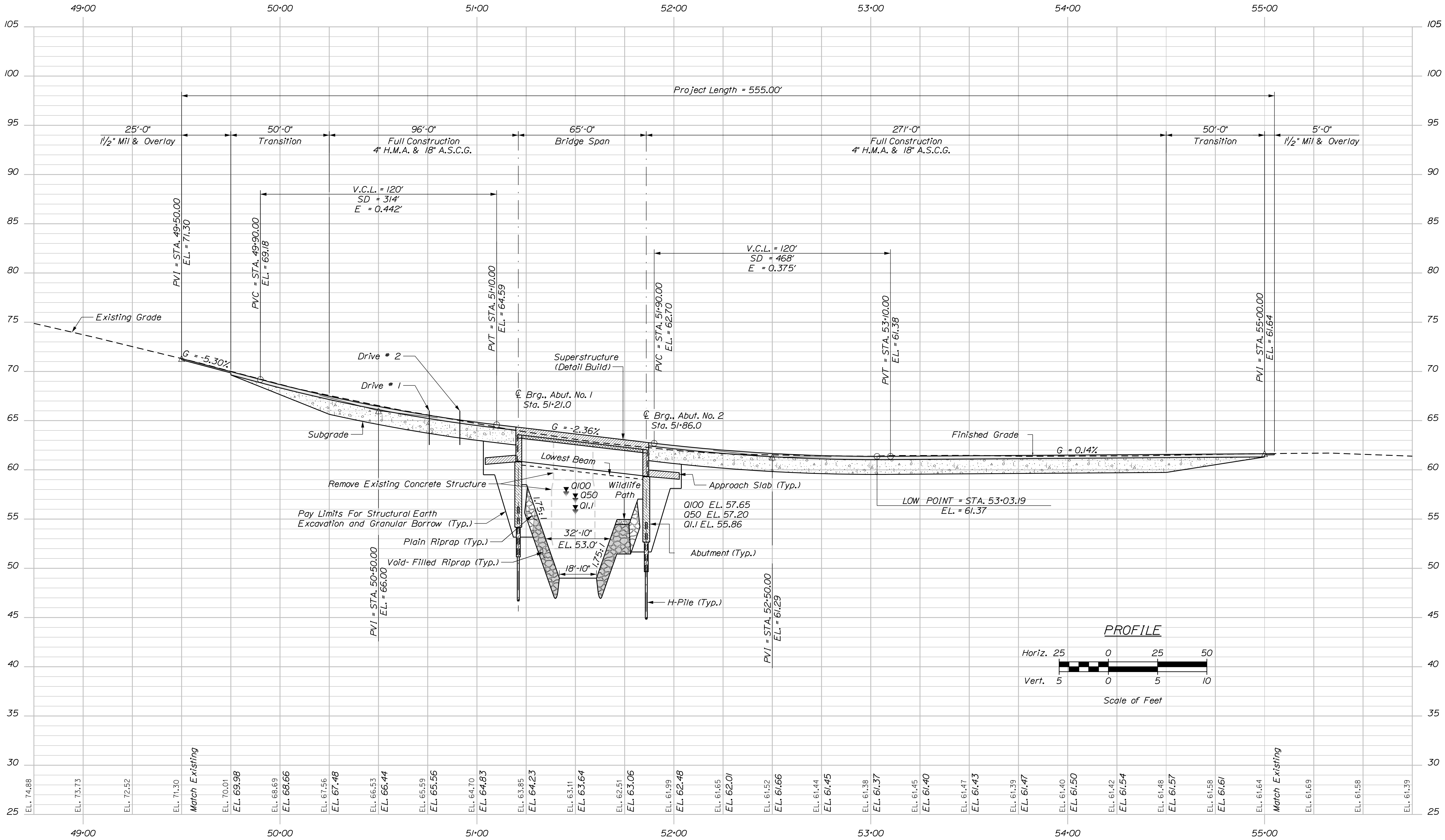
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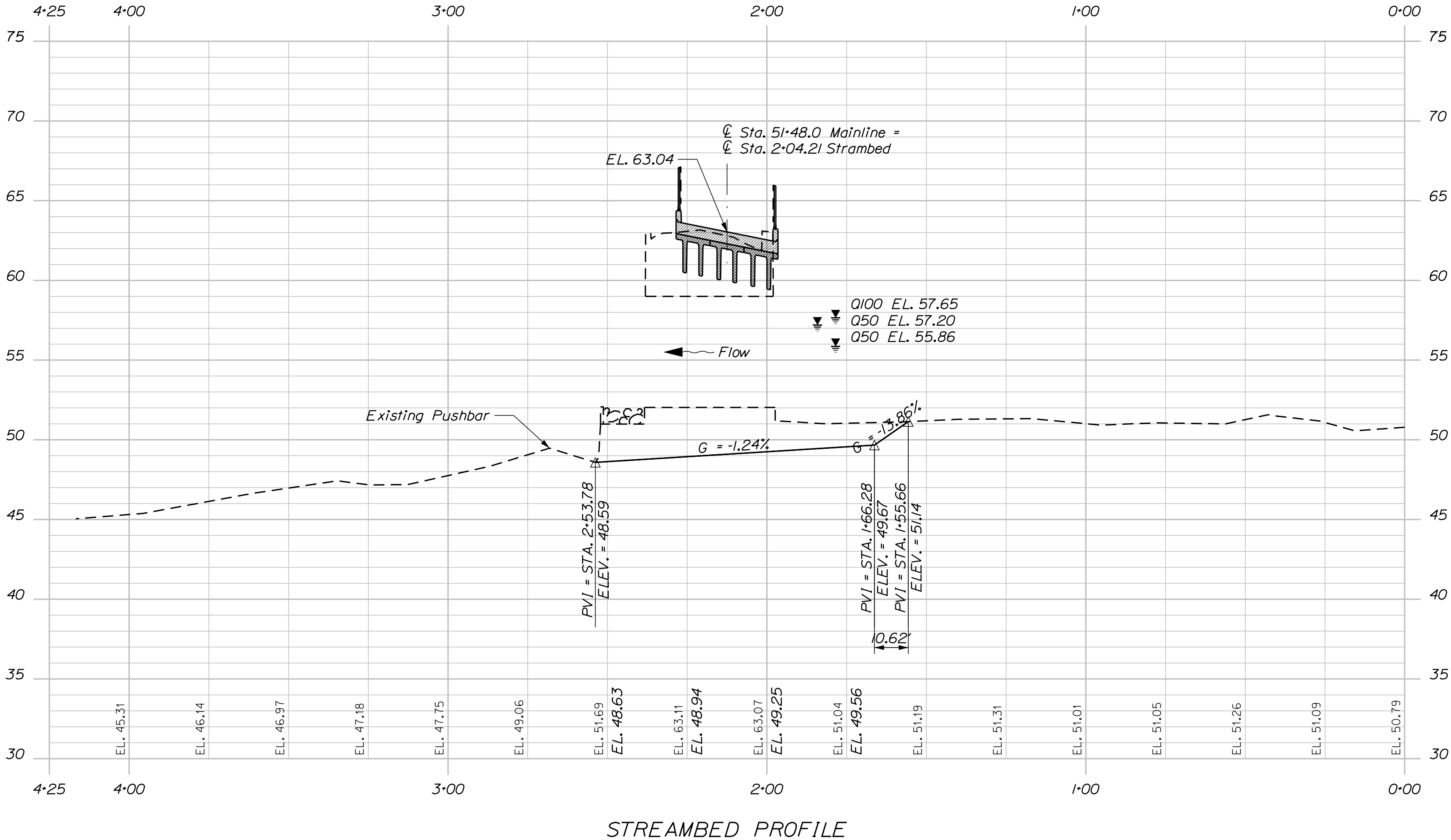
STATE OF MAINE		DATE		BY		SIGNATURE	
DEPARTMENT OF TRANSPORTATION		9/15/22		MRP		BIN	
2783601		9/15/22		E. BREWER		P.E. NUMBER	
BRIDGE NO. 0509						DATE	
WIN							
27836.01							
BRIDGE PLANS							

FISH BRIDGE		DATE		BY		SIGNATURE	
PATTEE POND BROOK		9/15/22		MRP		BIN	
KENNEBEC COUNTY		9/15/22		E. BREWER		P.E. NUMBER	
WINSLOW						DATE	
GENERAL PLAN							
SHEET NUMBER							
3							
OF 35							



GARLAND ROAD PROFILE

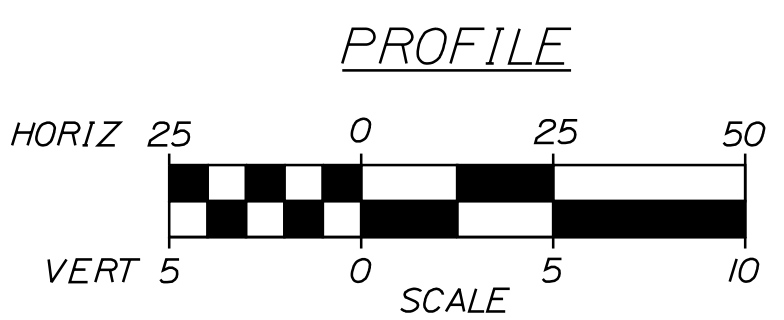
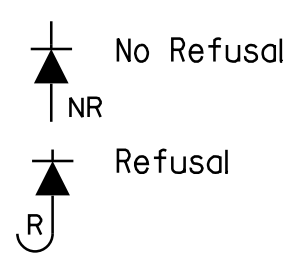
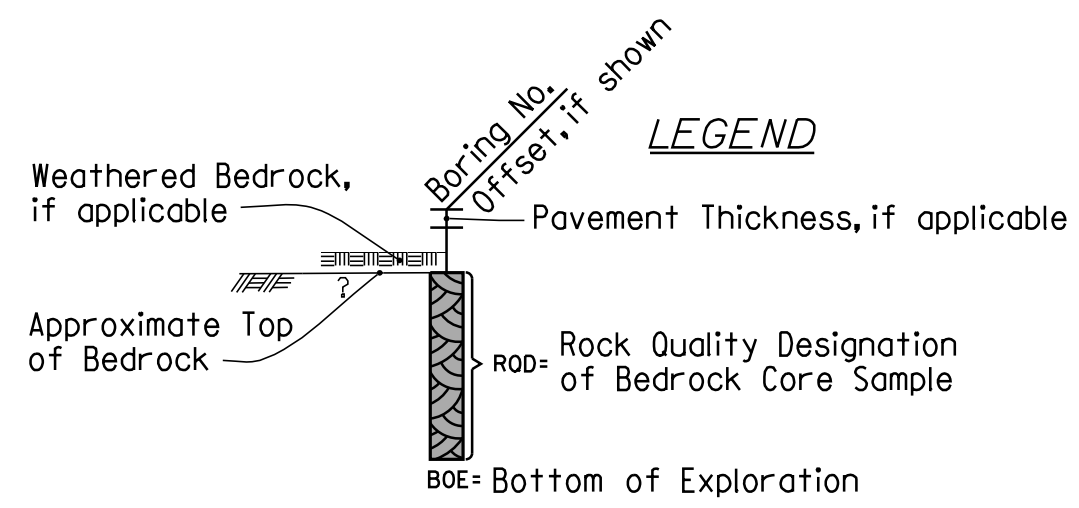
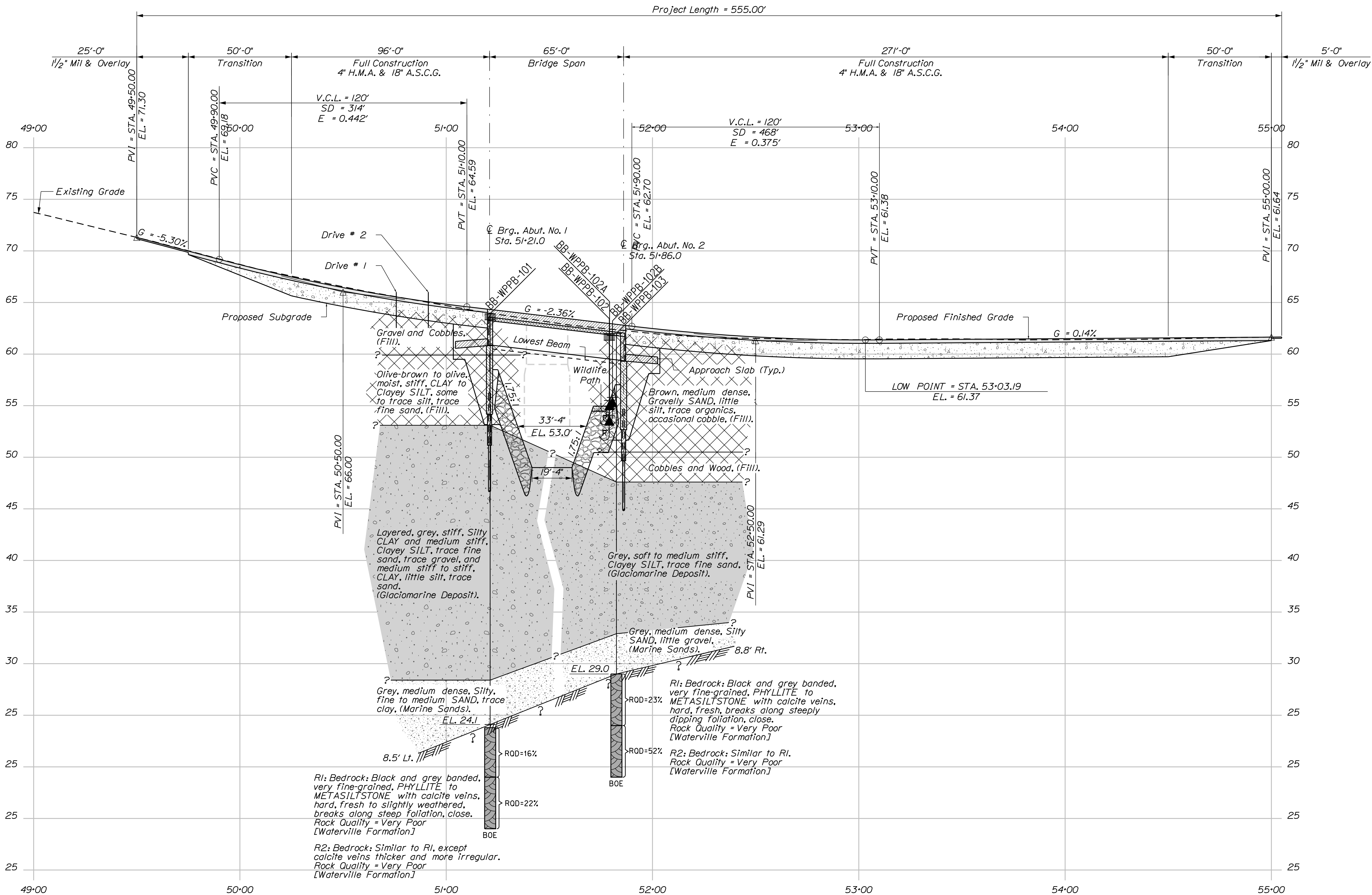
PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	B. NICHOLS	9/15/22
CHECKED-REVIEWED	M.P.	9/15/22
DESIGN-DETAILED	BIN	
DESIGN-DETAILED		SIGNATURE
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		



SHEET NUMBER		FISH BRIDGE				PROJ. MANAGER		B. Nichols	BY	DATE	STATE OF MAINE		
		PATTEE POND BROOK				DESIGN-DETAILED	R. MAOUS	M.R.P		9/15/22			
5		WINSLOW				CHECKED-REVISED		E. BREWER	B.J.N		9/15/22	DEPARTMENT OF TRANSPORTATION	
		KENNEBEC COUNTY				DESIGN2-DETAILED2						SIGNATURE	
OF 35		STREAM BED PROFILE				DESIGN3-DETAILED3						2783601	
						REVISIONS 1						P.E. NUMBER	
						REVISIONS 2							
						REVISIONS 3							
						REVISIONS 4							
						FIELD CHANGES					DATE	BRIDGE NO. 0509	
												WIN	
												27836.01	
												BRIDGE PLANS	

FISH BRIDGE
PATTEE POND BROOK
KENNEBEC COUNTY
WINSLOW

STREAM BED PROFILE



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

Date: 10/18/2024

Username: Brian.Nichols

Division: BRIDGE

Filename: ... \01\GEOTECH\WSTA007_ISP1.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

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BRIDGE NO. 0509
BRIDGE PLANS

FISH BRIDGE
PATTEE POND BROOK
WINSLOW
KENNEBEC COUNTY

INTERPRETIVE SUBSURFACE PROFILE

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	R. NICHOLS	FEB 2020			
CHECKED-REVIEWED	E. BREWER	DEC 2023			
DESIGN-DETAILED	L. KRUSINSKI	OCT 2023			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

SHEET NUMBER

7

OF 35

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Maine Department of Transportation						Project: Fish Bridge #059 carries Carland Road over Pottery Pond Brook Location: Winslow, Maine		Boring No.: BB-WPPB-102B	
Soil/Bore Exploration Log US CUSTOMARY UNITS								WIN: 2268.00	
Drilling Contractor: BSH200T			Elevation (ft.):	61.8		Auger ID/OD:		5" Dia.	
Operator: Daggett/Wilder			Depth:	NAVDS88		Sampler:		N/A	
Logged By: J. Monahan			Rig Type:	CME 45G		Hammer Wt./Fall:		N/A	
Date Started/Finished: 9/15/2020 0815-0910			Drilling Method:	Static Stem Auger		Core Barrel:		N/A	
Boring Location: S1#06.6, 12.0 ft R/L			Casing (ft.):	N/A		Water Level®:		None Observed	
Penetration = Static Sample S = Sample of Auger Flights M = Sample taken off Auger Flights MI = Unsuccessful Split-Spoon Sample Attempt U = This Well Take Sample MR = Unsuccessful Field Vane Shear Test Attempt V = Field Vane Shear Tests PR = Pocket Penetration WTFC = Weight of Top or Casing			MI = Unsuccessful Thin Wall B = Rock Core Sample SS = Solid Stem Auger AS = Hollow Stem Auger RC = Rotary Core WD = Weight of Holes Hammer WTFC = Weight of Top or Casing		WTD = Weight of 1 Person SW = Peak Retained Field Vane Undrained Shear Strength (psi) SU = psi Undrained Shear Strength (psi) CU = Uncorrelated Compressive Strength (ksi) AV = psi Field Vane Undrained TV = Pocket Torque Shear Strength (psi) WC = Water Contents Percent A = Area or Equal Area			LI = Liquid Limit PL = Plasticity Limit PI = Plasticity Index G = Grain Size Analysis C = Consolidation Test	
Sample Information									
Depth (ft.)	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Notes (V/S, Shear, etc.) SPRNG (L/S) WT (lb)	Void Ratio	Coring Bit Size	Elevation (ft.)	Stratigraphic Log	
							55.8	Brown SAND and GRAVEL cuttings. (F111)	
5							55.80	Bottom of Exploration at 6.0 feet below ground surface. RTUSA	
10									
15									
20									
25									
Remarks:									
Stratification lines represent approximate boundaries between soil types; transitions may be gradual.							Page 1 of 1		
• 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-WPPB-102B		

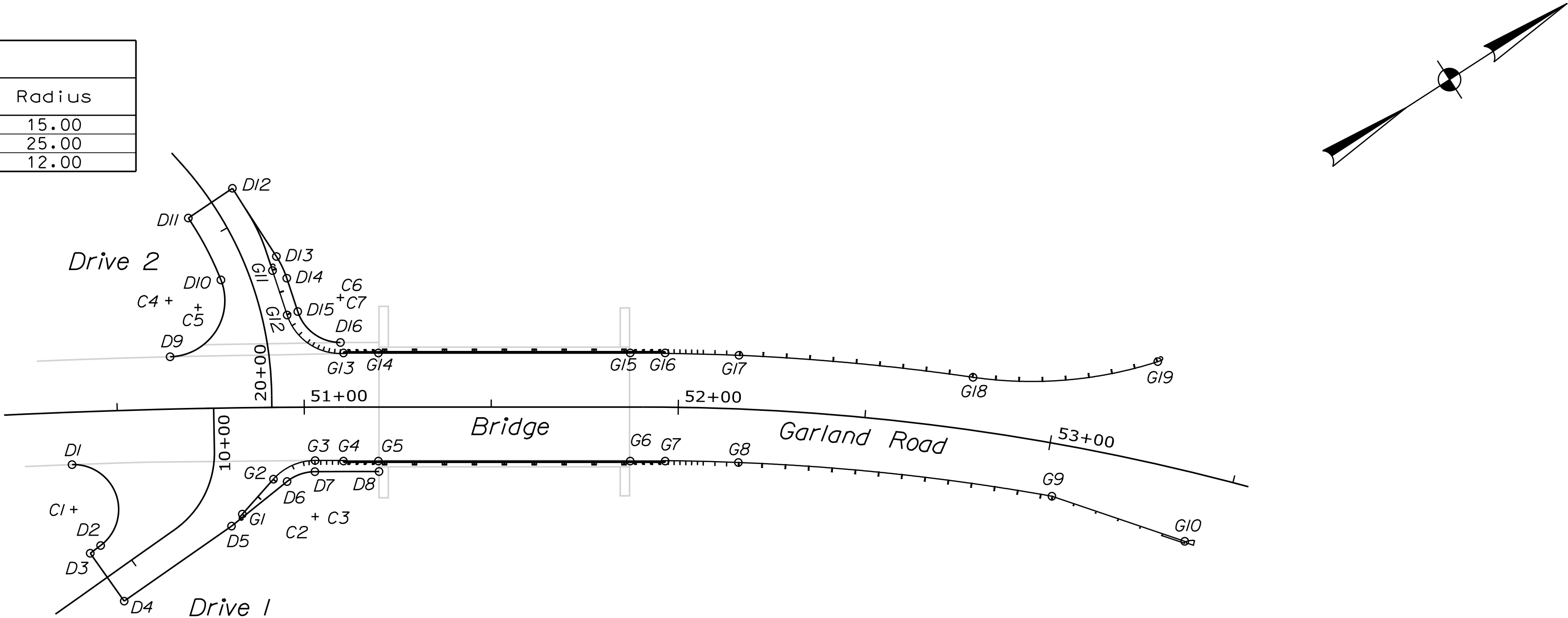
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CONTROL POINTS FOR DRIVE 2		
Point	Station	Offset
D9	50+64.49	14.00 LT
D10	50+78.32	34.23 LT
D11	50+70.10	50.94 LT
D12	50+81.70	58.67 LT
D13	50+92.94	40.31 LT
D14	50+95.62	34.48 LT
D15	50+98.44	25.56 LT
D16	51+09.70	17.45 LT

CONTROL POINTS FOR GUARDRAIL		
Point	Station	Offset
G11	50+91.89	36.54 LT
G12	50+95.63	24.63 LT
G13	51+10.50	14.45 LT
G14	51+19.83	14.45 LT
G15	51+87.17	14.45 LT
G16	51+93.37	14.45 LT
G17	52+15.66	14.30 LT
G18	52+15.77	14.00 LT
G19	53+23.54	26.80 LT

CURVE DATA GUARDRAIL		
Pt. to Pt.	Length	Radius
G11-G12	12.50	
G12-G13	20.50	15.00
G13-G14	9.30	
BRIDGE		
G15-G16	9.30	
G16-G17	20.50	639.00
G17-G18	62.50	639.00
G18-G19	50.00	110.00

CURVE DATA DRIVE 2		
Pt. to Pt.	Length	Radius
D9-D10	29.00	15.00
D13-D14	6.50	25.00
D15-D16	15.00	12.00



CONTROL POINTS FOR DRIVE 1		
Point	Station	Offset
D1	50+37.38	14.00 RT
D2	50+44.30	35.88 RT
D3	50+41.41	37.87 RT
D4	50+50.25	50.94 RT
D5	50+80.06	31.59 RT
D6	50+95.26	19.86 RT
D7	51+02.78	17.45 RT
D8	51+20.00	17.45 RT

CONTROL POINTS FOR GUARDRAIL		
Point	Station	Offset
G1	50+83.03	28.41 RT
G2	50+91.58	19.20 RT
G3	51+02.84	14.30 RT
G4	51+10.50	14.45 RT
G5	51+19.83	14.45 RT
G6	51+87.00	14.45 RT
G7	51+96.64	14.45 RT
G8	52+16.67	14.30 RT
G9	53+03.00	14.00 RT
G10	53+41.24	18.30 RT

CURVE DATA GUARDRAIL		
Pt. to Pt.	Length	Radius
G1-G2	12.50	
G2-G3	12.50	15.00
G3-G4	8.50	
G4-G5	9.30	
BRIDGE		
G6-G7	9.30	
G7-G8	20.50	611.00
G8-G9	84.40	611.00
G9-G10	37.50	

Center Of Radius			
	Point	Station	Offset
Drive	C1	50+37.38	26.00 RT
Drive	C2	51+02.81	26.26 RT
Guardrail	C3	51+02.78	29.29 RT
Drive	C4	50+64.00	29.00 LT
Drive	C5	50+72.15	27.00 LT
Drive	C6	51+09.71	29.24 LT
Guardrail	C7	51+09.68	29.30 LT

STATE OF MAINE
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BRIDGE NO. 0509

BRIDGE PLANS

FISH BRIDGE
PATTEE POND BROOK
WINSLOW
KENNEBEC COUNTY

GEOMETRY
DRIVE 1 & 2 - GUARDRAIL

SHEET NUMBER

9

OF 35

PROJ. MANAGER
DESIGNED-DETAILED
CHECKED-REVIEWED
DESIGNS-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

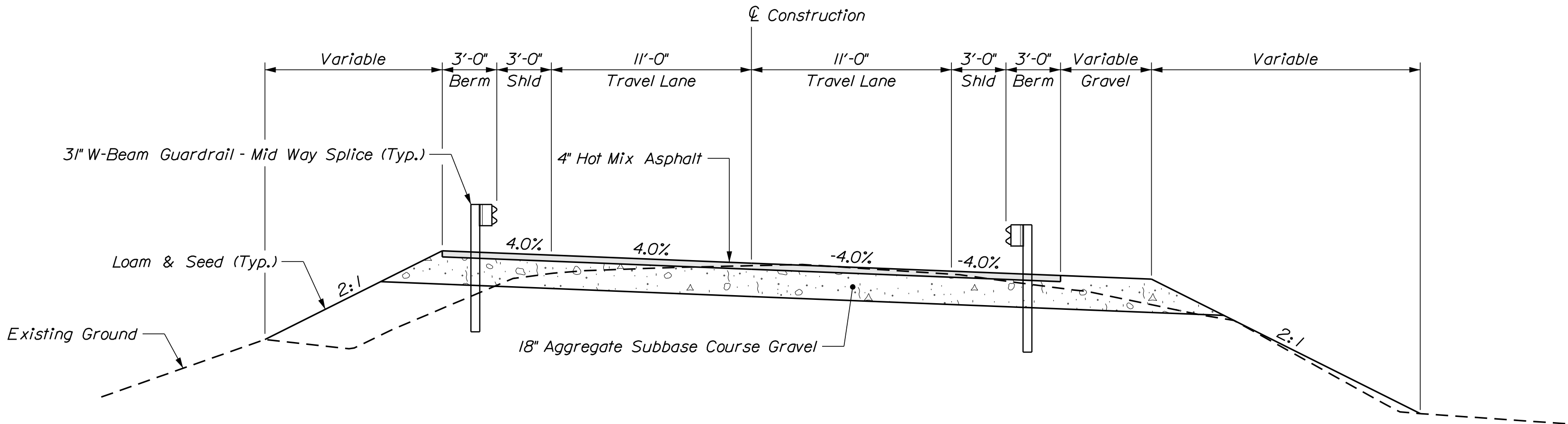
BY
MRP
BIN

DATE
9/15/22
9/15/22

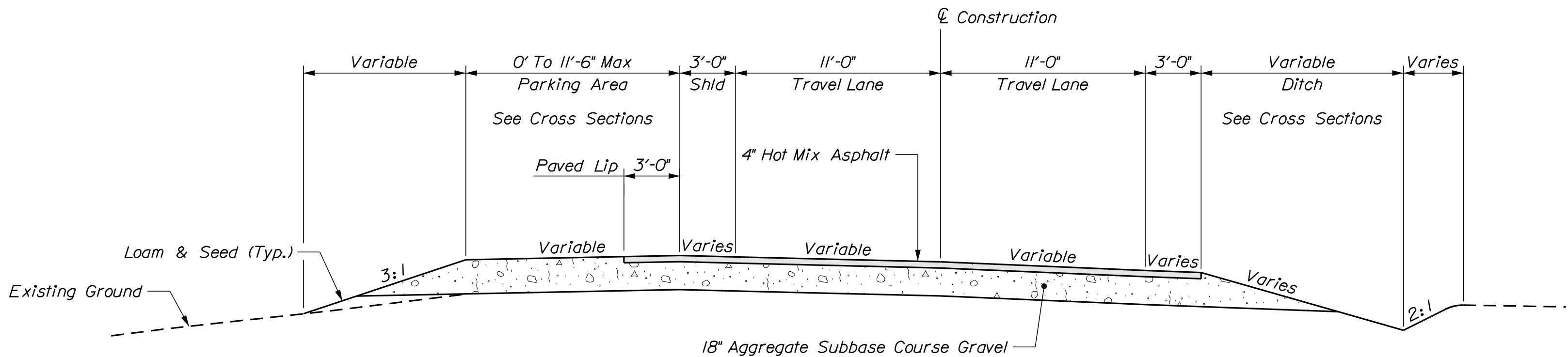
SIGNATURE

P.E. NUMBER

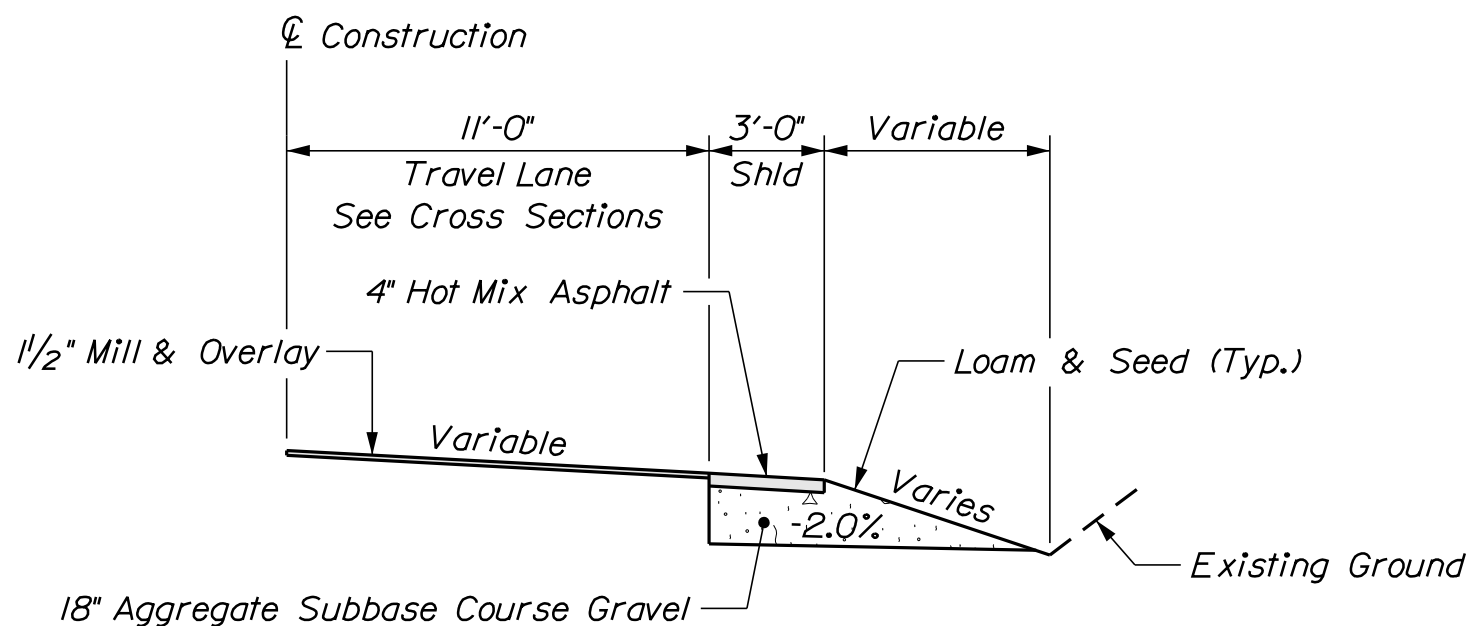
DATE



TYPICAL APPROACH SECTION
WITH GUARDRAIL

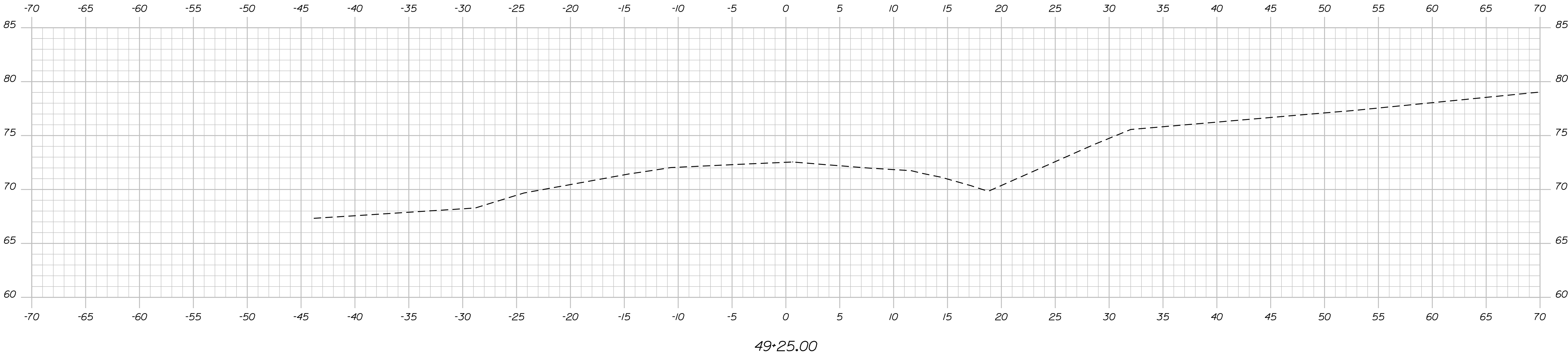
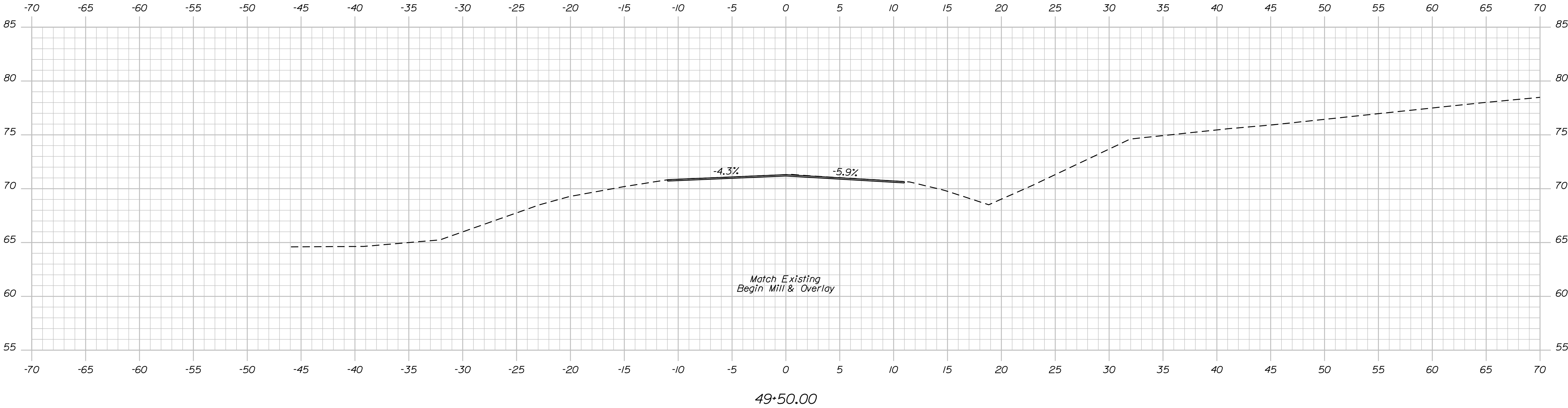


TYPICAL APPROACH SECTION
WITH PARKING AREA & DITCH

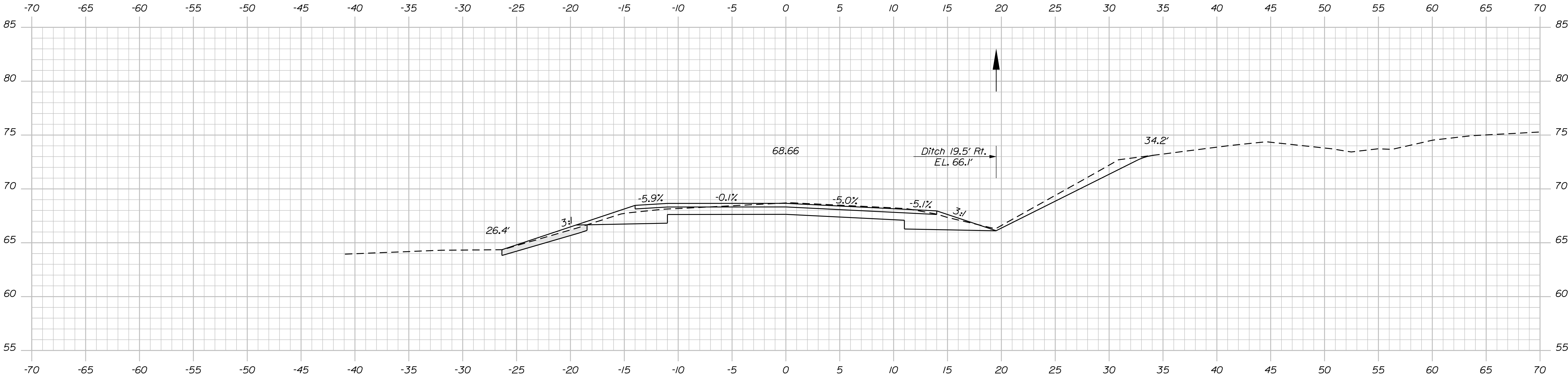


TYPICAL APPROACH SECTION
SHOULDER WORK IN MILL & OVERLAY AREA

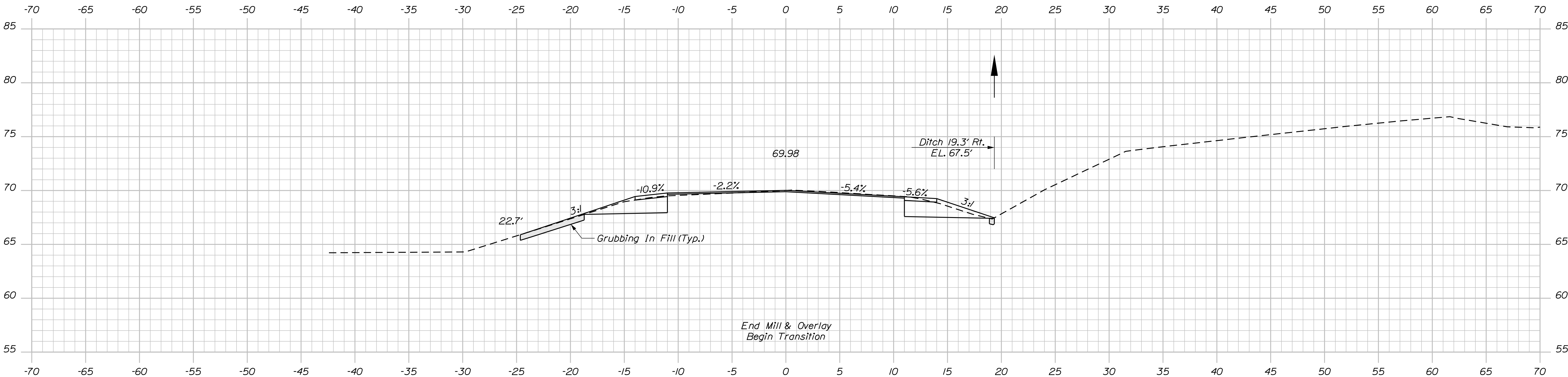
FISH BRIDGE PATTEE POND BROOK WINSLOW	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			2783601		WIN 27836.01		BRIDGE NO. 0509 BRIDGE PLANS	
	KENNEBEC COUNTY			SIGNATURE		P.E. NUMBER		DATE	
	APPROACH TYPICALS			9/15/22		9/15/22		9/15/22	
	SHEET NUMBER 10 OF 35			PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		BY MRP BIN		DATE 9/15/22 9/15/22	



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
2783601		WIN	
BRIDGE NO. 0509		BRIDGE PLANS	
FISH BRIDGE		PATTEE POND BROOK	
WINSLOW		KENNEBEC COUNTY	
CROSS SECTIONS		SHEET NUMBER	
11		OF 35	
PROJ. MANAGER	BY	DATE	SIGNATURE
CHECKED-REVIEWED	M.P.	9/15/22	
DESIGN-DETAILED	B.N.	12/15/23	
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



50+00.00



49+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2783601

WIN
27836.01

BRIDGE NO. 0509
BRIDGE PLANS

PROJ. MANAGER
DESIGN-DETAILED
CHECKED-REVIEWED
DESIGN-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

BY
B. NICHOLS
M.P.
B.N.

DATE
9/15/23
12/5/23

FISH BRIDGE
PATTEE POND BROOK
WINSLOW
KENNEBEC COUNTY

CROSS SECTIONS

SHEET NUMBER

12

OF 35

SIGNATURE

P.E. NUMBER

DATE

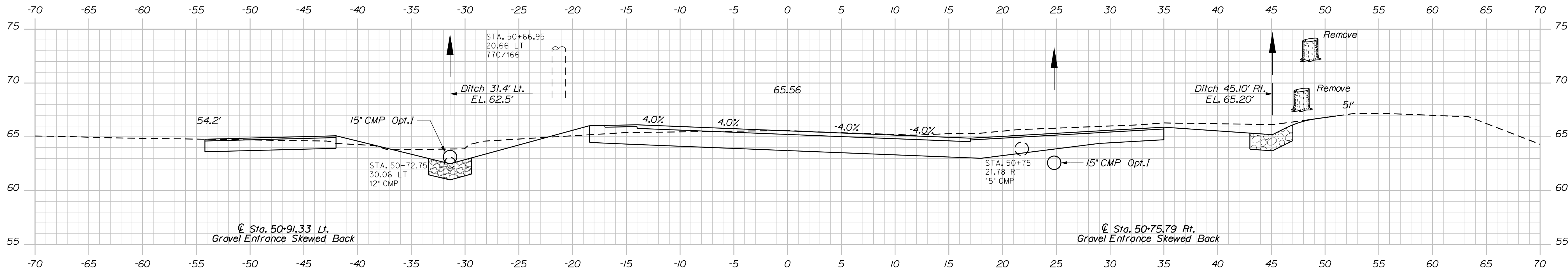
Sta. 49+75.00 to Sta. 50+00.00

Date:10/18/2024

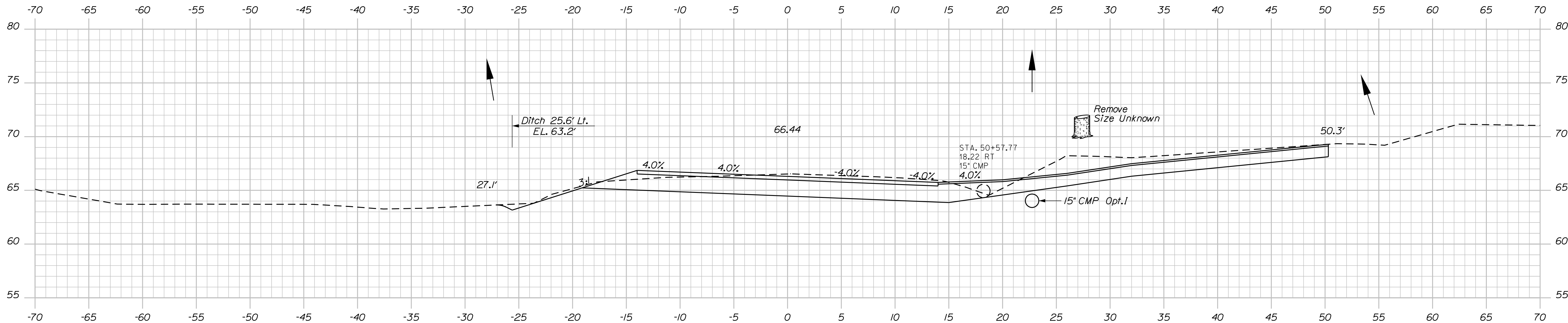
Username: Brian.Nichols

Division: BRIDGE

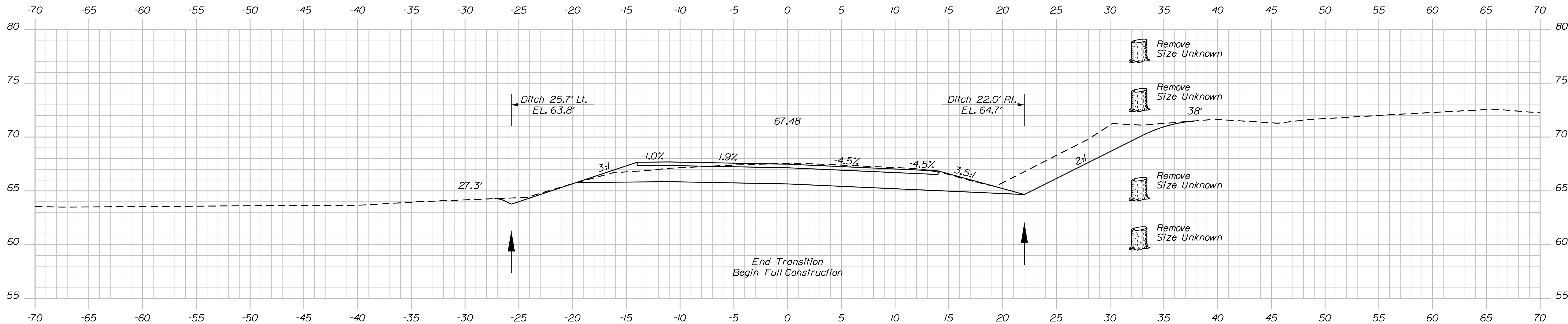
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50+75.00

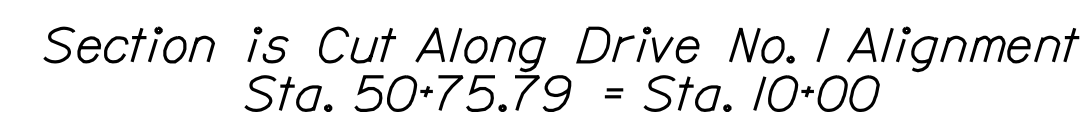
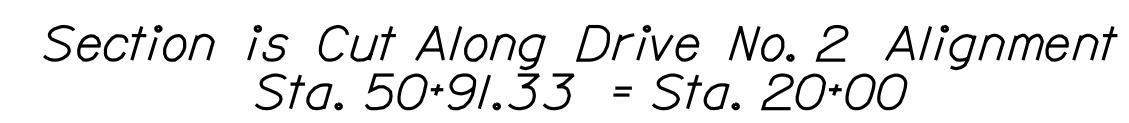


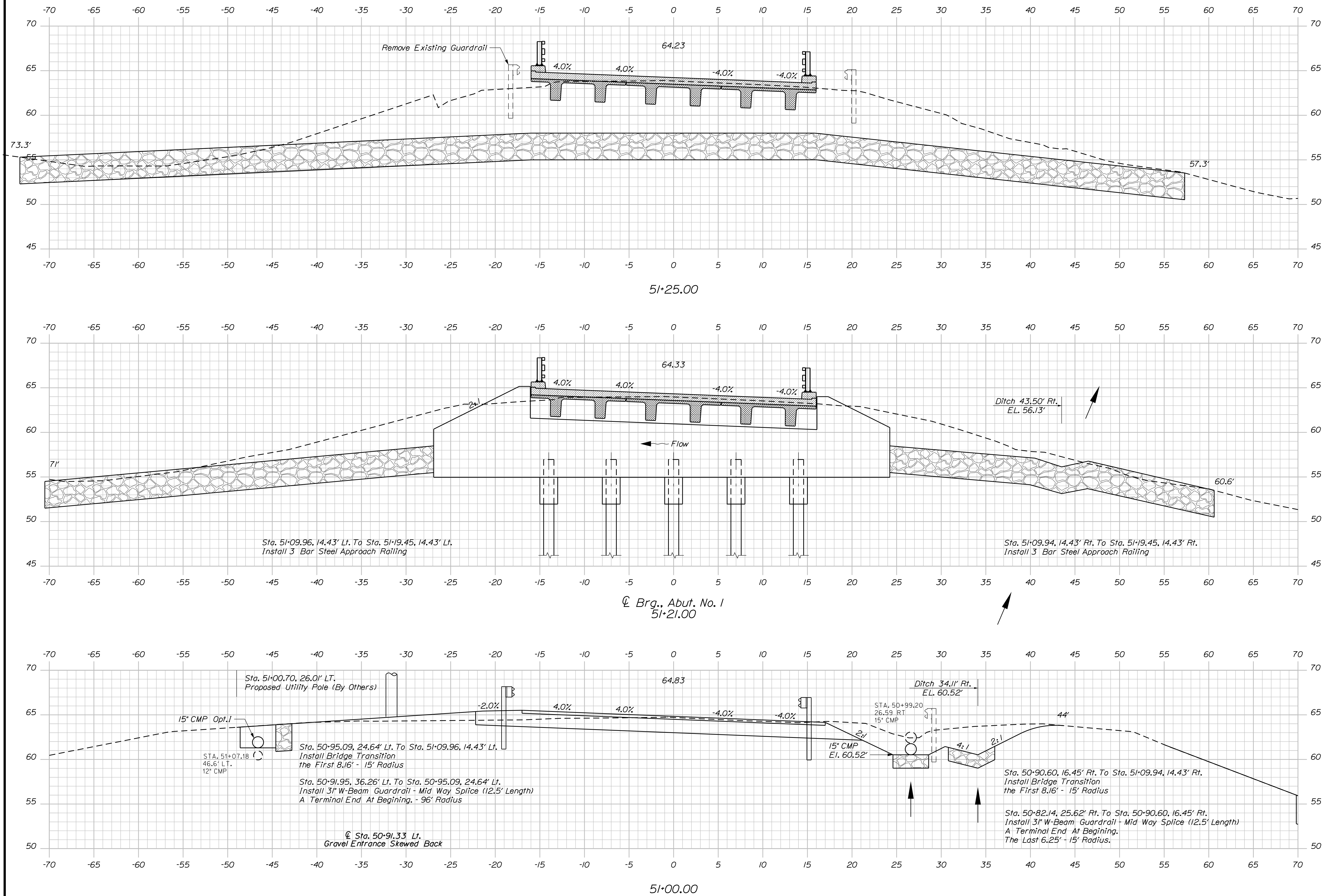
50+50.00



50+25.00

PROJ. MANAGER	DESIGNED	CHECKED	REVIEWED	DATE	BY	DATE
B. Nichols	R. NAOLIS	M.P.	B.N.	9/15/22	12/5/23	
DESIGNED	CHECKED	REVIEWED	DATE	BY	DATE	
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	REVISIONS 5	REVISIONS 6	REVISIONS 7
FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES





	B. Nichols	BY	DATE
PROJ. MANAGER	R. NAOUS	M.P.	9/15/22
DESIGN-DETAILED	E. BREWER	JUN	12/6/23
CHECKED-REVIEWED			
DESIGNED-DRAWN			
DESIGNS-OBTAINED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SIGNATURE			
P.E. NUMBER			
DATE			

FISH BRIDGE

PATTEE POND BROOK

WINSLOW

KENNEBEC COUNTY

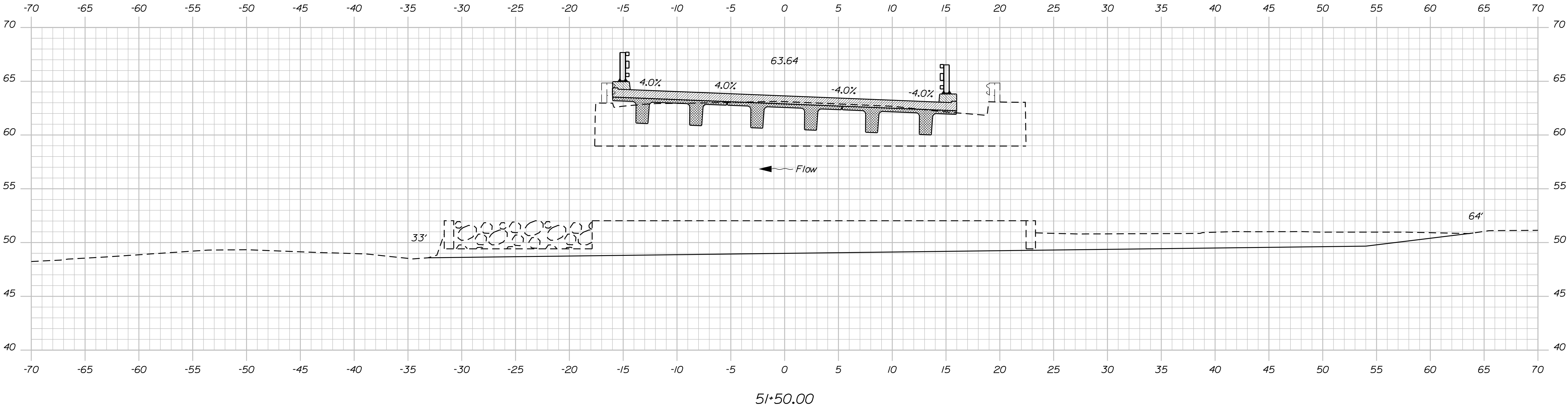
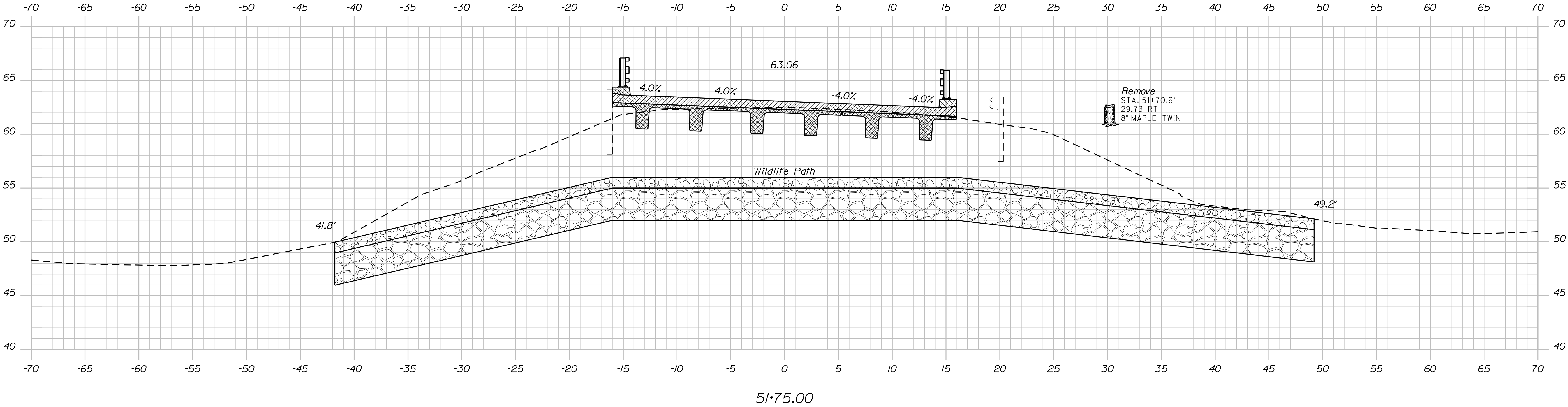
CROSS SECTIONS

Date:10/18/2024

Username: Brian.Nichols

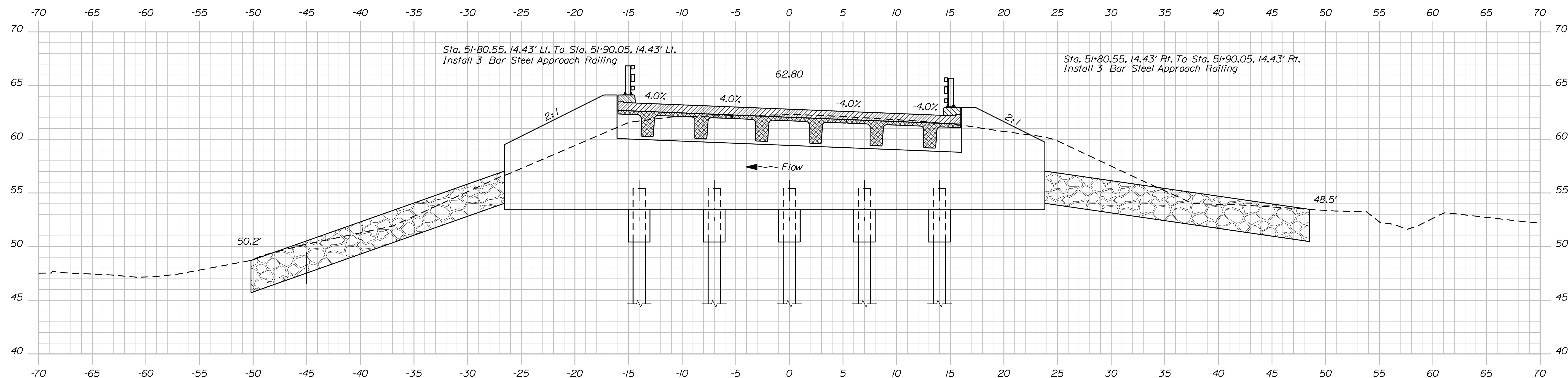
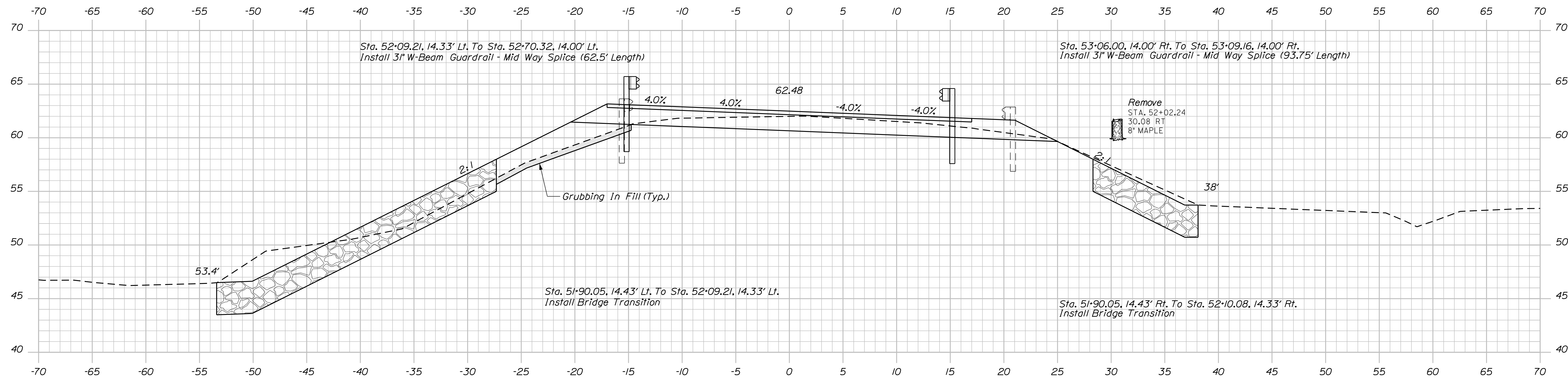
Division: BRIDGE

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PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	B. NICHOLS	9/15/23
CHECKED-REVIEWED	R. NAUJUS	12/5/23
DESIGN-DETAILED	E. BREWER	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE	P.E. NUMBER	DATE



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2783601	
BRIDGE NO. 0509	WIN 27836.01
BRIDGE PLANS	

PROJ. MANAGER	B. Nichols	BY	DATE
DESIGN-DETAILED	R. MAOUS	W.R.P	9/15/22
CHECKED-REVIEWED	E. BREWER	B.JN	12/6/23
DESIGN3-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WINSLOW	FISH BRIDGE	KENNEBEC COUNTY
PATTEE POND BROOK		
CROSS SECTIONS		

SHEET NUMBER
17
OF 35

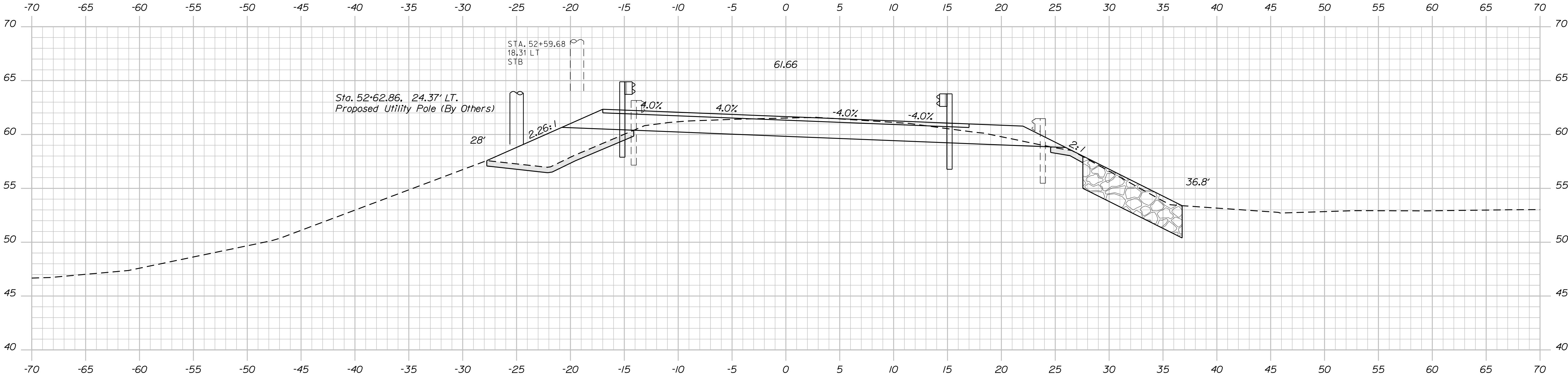
Sta. 51+79.05 to Sta. 52+00.00

Date:10/18/2024

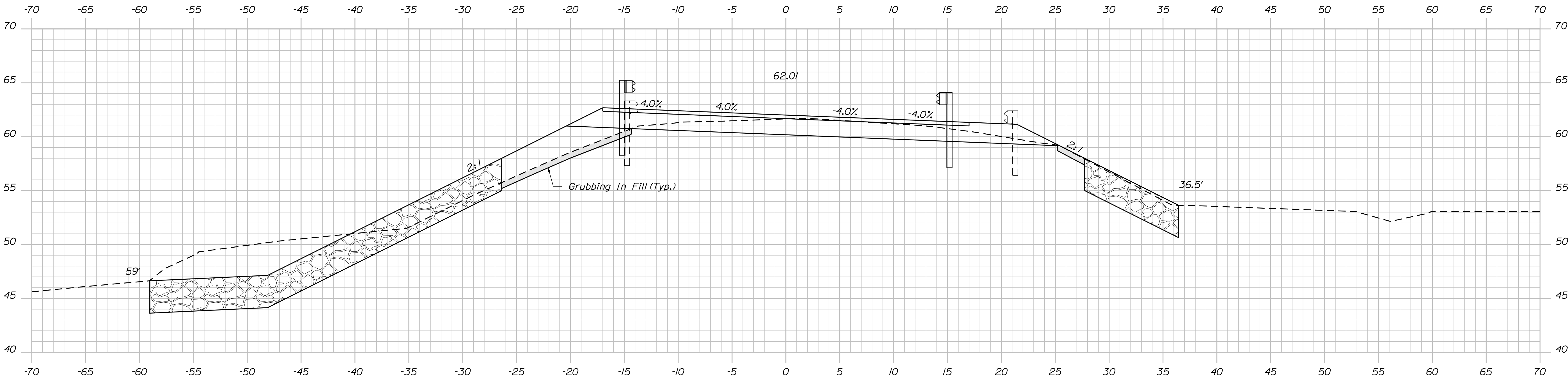
Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTA\018_XSECT_52-25-8.dgn



52+50.00



52+25.00

PROJ. MANAGER	BY	DATE
CHECKED-REVIEWED	M.R.P.	9/15/22
DESIGN-DETAILED	B.N.	12/15/23
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

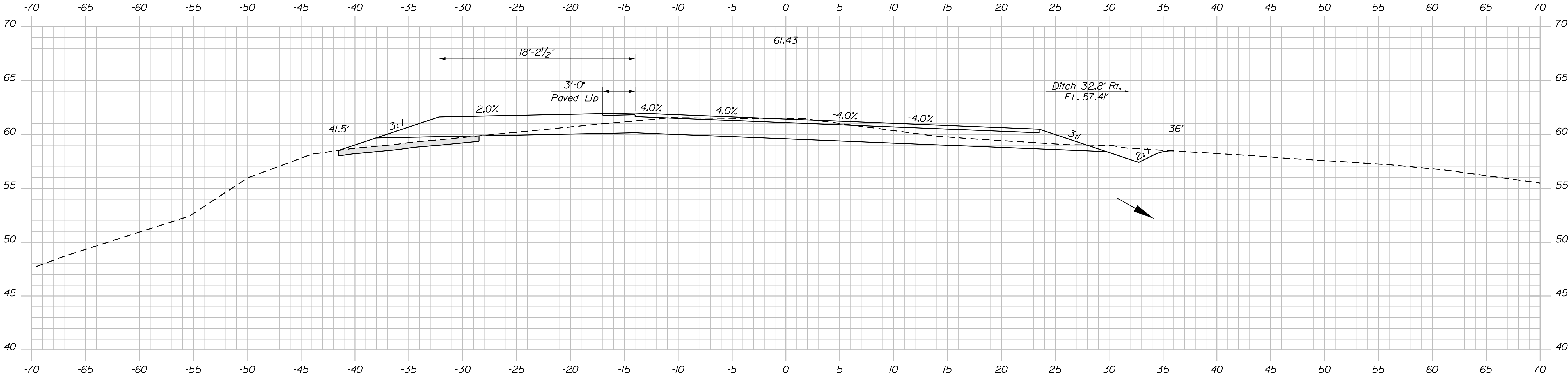
SIGNATURE	P.E. NUMBER	DATE

Date:10/18/2024

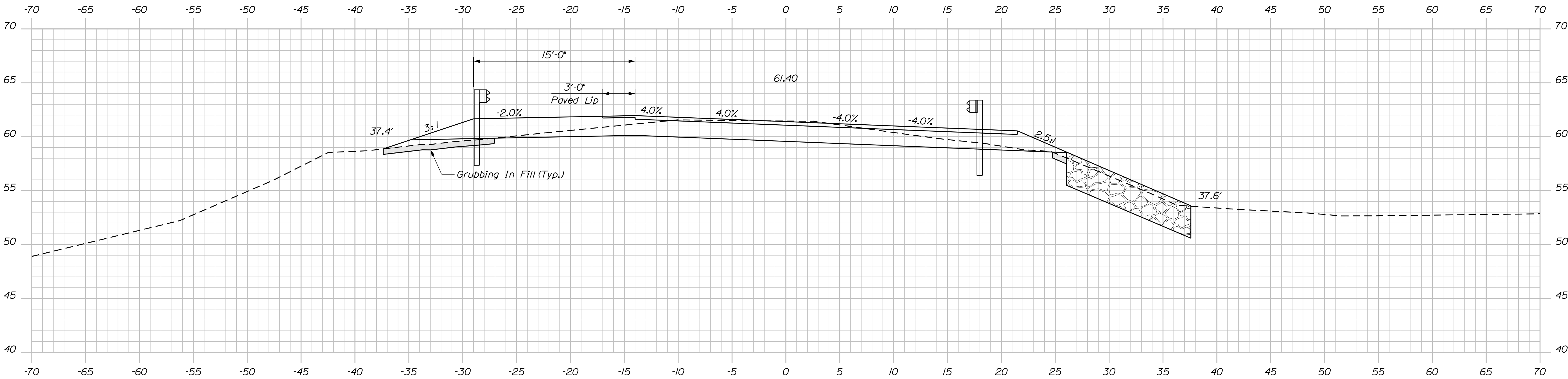
Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTAD20_XSECT_53+25_10.dgn



53+50.00



53+25.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2783601	
WIN	27836.01
BRIDGE NO. 0509	BRIDGE PLANS

PROJ. MANAGER	BY	DATE
CHECKED-REVIEWED	M.R.P.	9/15/23
DESIGN-DETAILED	BIN	12/6/23
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

FISH BRIDGE	
PATTEE POND BROOK	
KENNEBEC COUNTY	
WINSLOW	
CROSS SECTIONS	

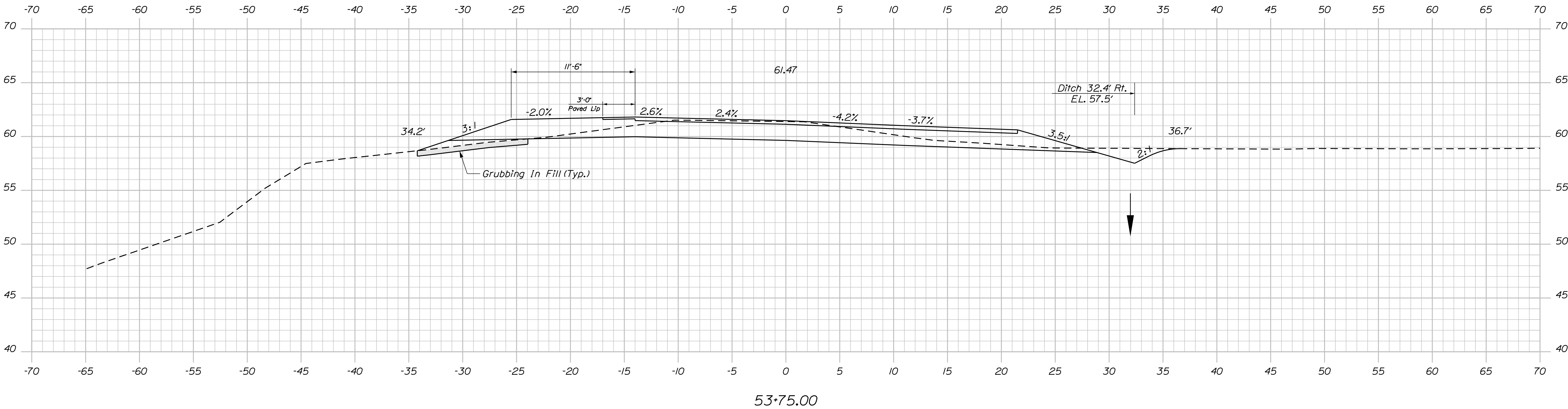
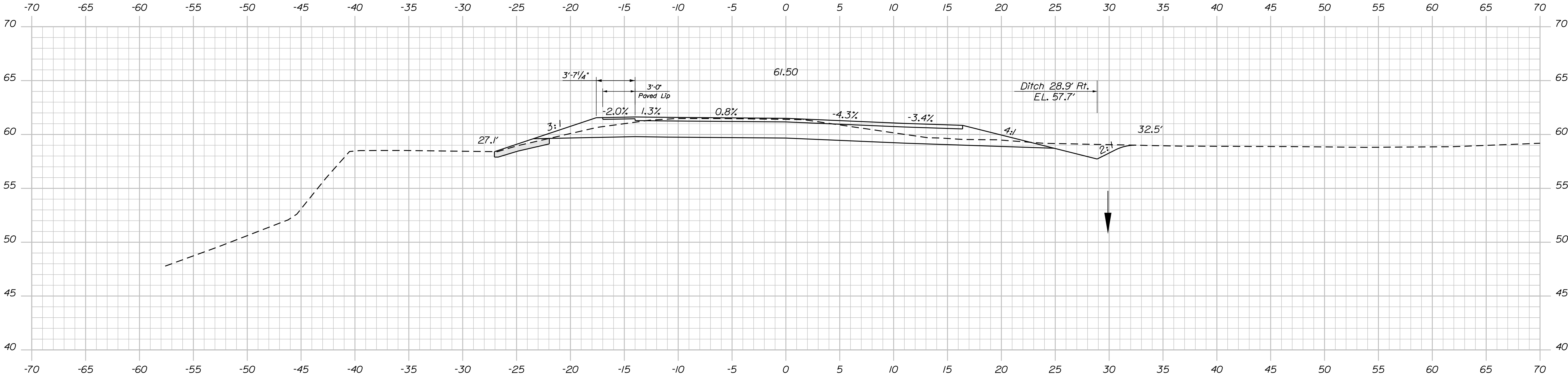
SHEET NUMBER
20
OF 35

Date:10/18/2024

Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTAN021_XSECT_53+75_11.dgn

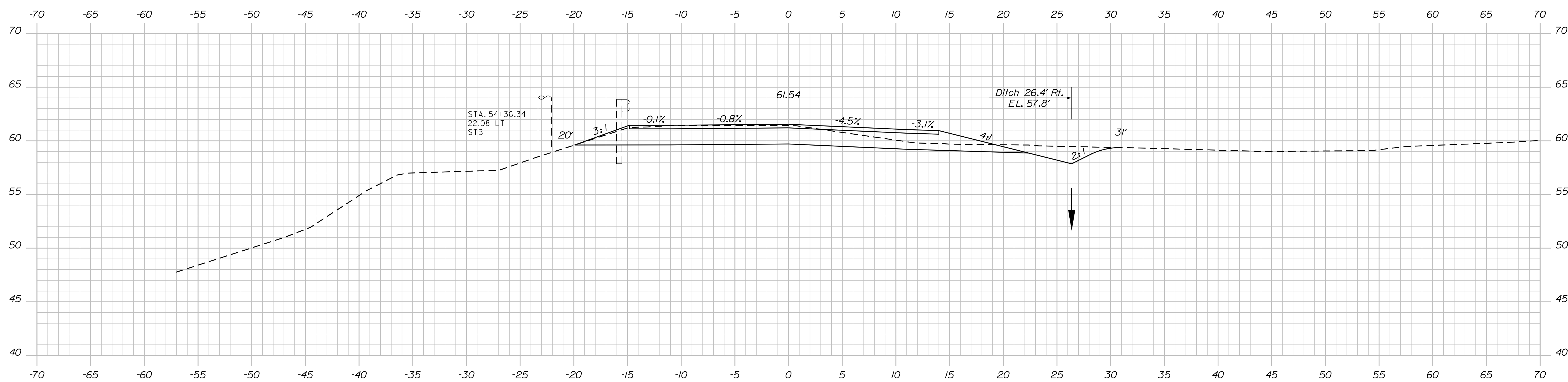
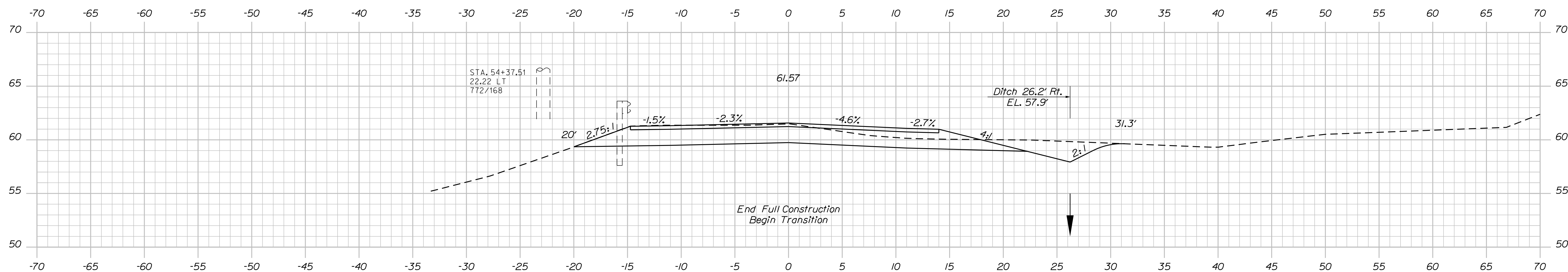
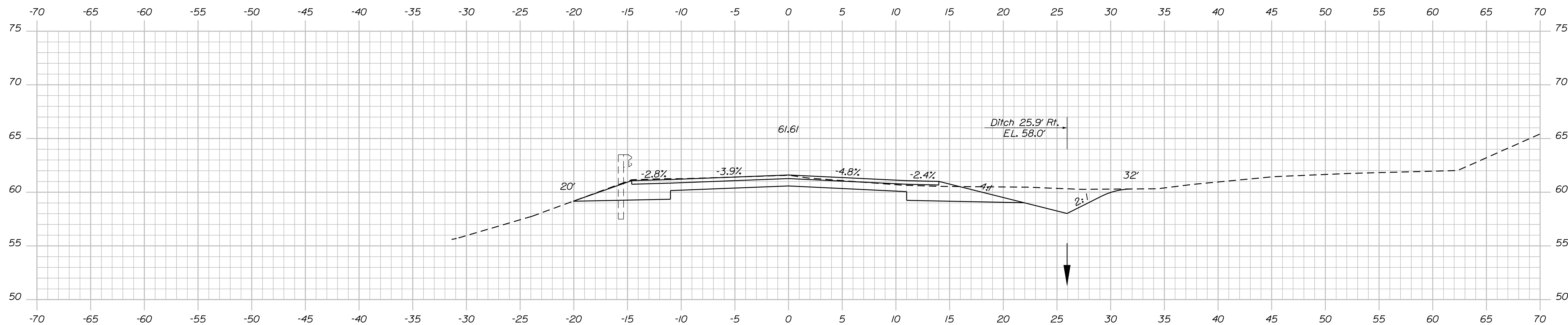


STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2783601	
WIN	27836.01
BRIDGE NO. 0509	BRIDGE PLANS

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	M.R.P.	9/15/22
CHECKED-REVIEWED	B.N.	12/15/23
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

FISH BRIDGE	KENNEBEC COUNTY
PATTEE POND BROOK	
WINSLOW	
CROSS SECTIONS	

SHEET NUMBER
21
OF 35



STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

2783601

WIN

7836.01

BRIDGE NO. 0509

BRIDGE PLANS

WINSLOW
FISH BRIDGE
PATTEE POND BROOK
KENNEBEC COUNTY

CROSS SECTIONS

SHEET NUMBER

22

OF 35

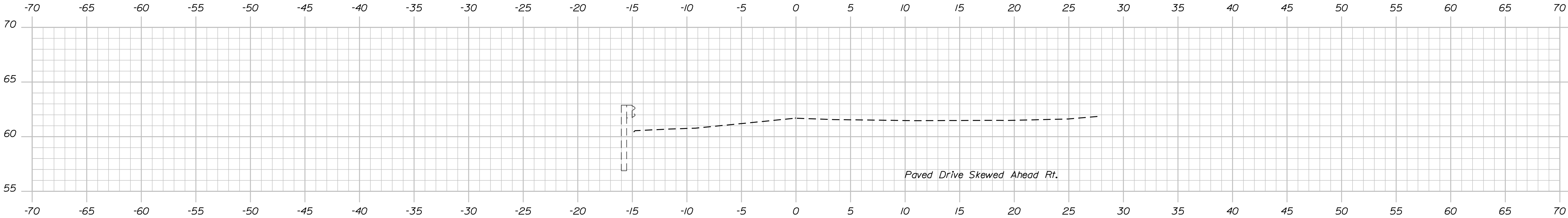
Sta. 54+25.00 to Sta. 54+75.00

Date:10/18/2024

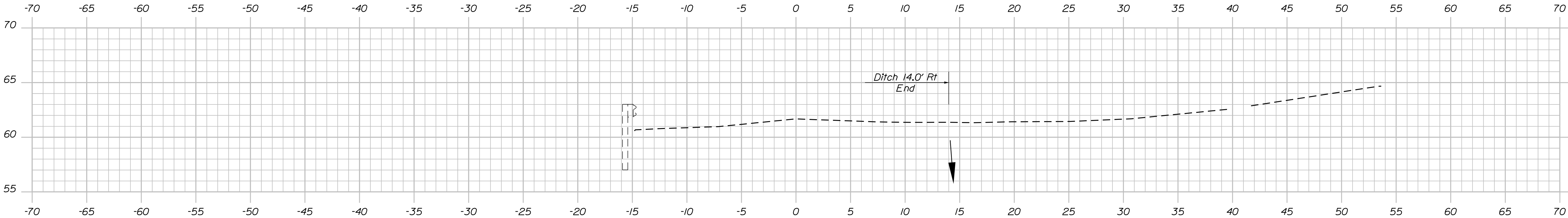
Username: Brian.Nichols

Division: BRIDGE

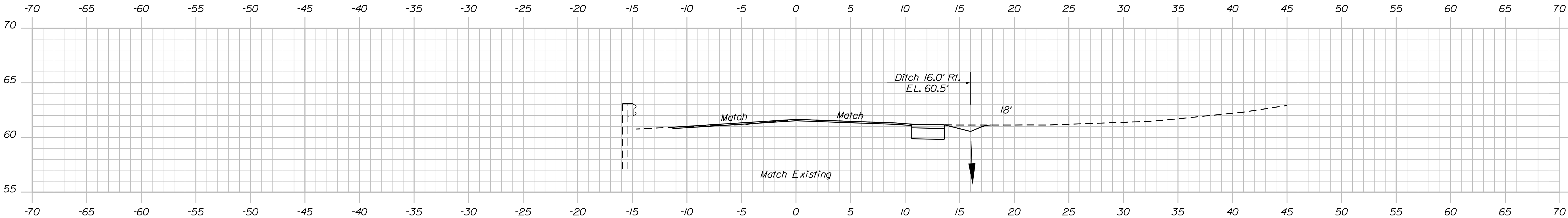
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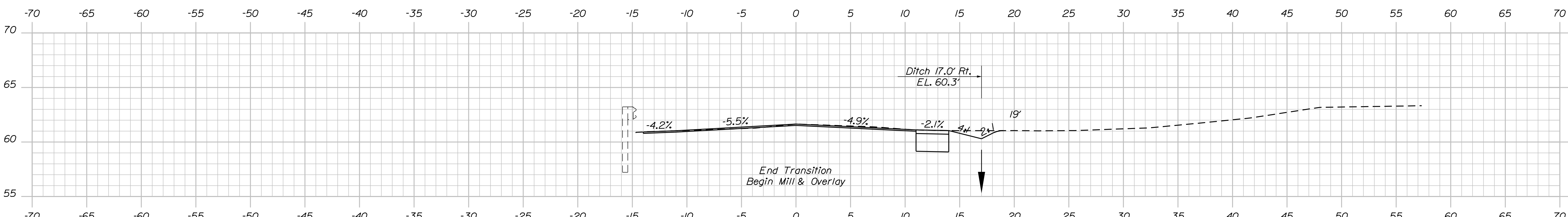
55+25.00



55+15.47



55+05.00



55+00.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2783601	
	WIN	27836.01
	BRIDGE NO. 0509	BRIDGE PLANS

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	MRP	9/15/22
CHECKED-REVIEWED	BIN	12/5/23
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

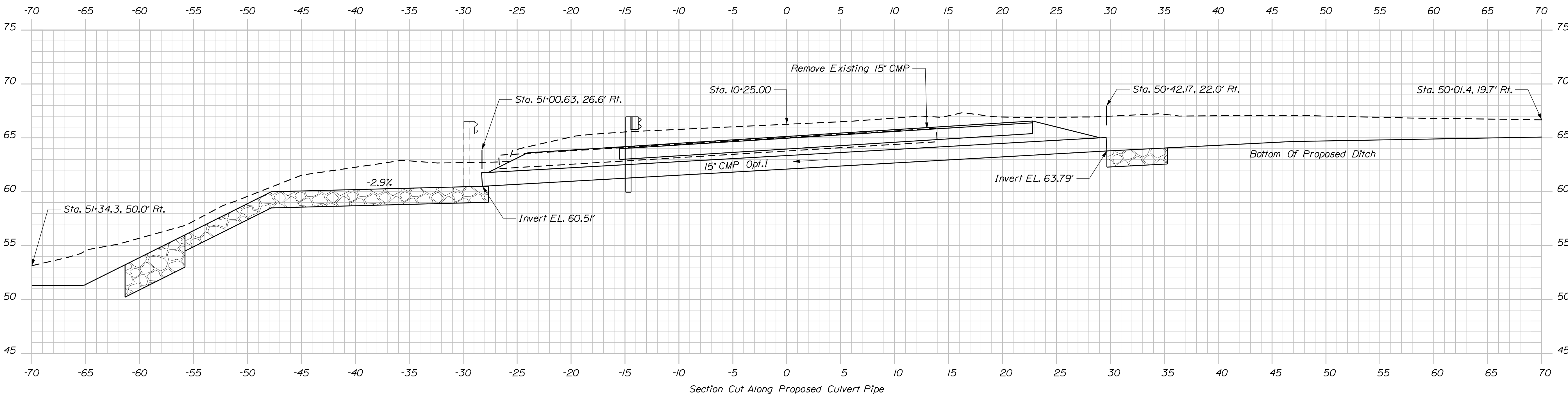
FISH BRIDGE PATTEE POND BROOK KENNEBEC COUNTY WINSLOW	CROSS SECTIONS
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SHEET NUMBER
23
OF 35

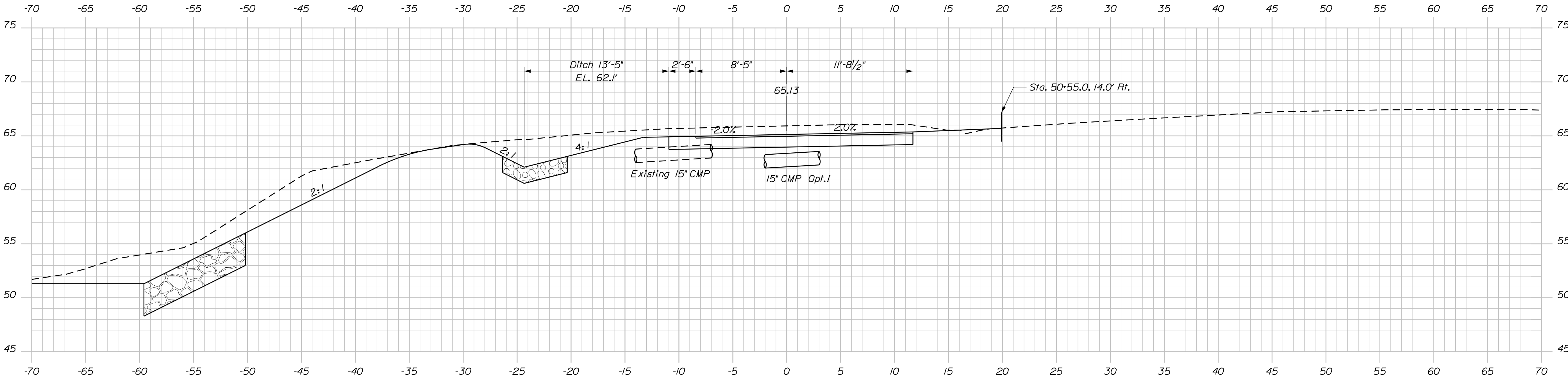
Date:10/18/2024

Username: Brian.Nichols

Filename: ... \024_XSECT_ Dr 1 STA. 10+25.14.dgn Division: BRIDGE



Section Cut Along Proposed Culvert Pipe



10+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2783601

WIN
27836.01

BRIDGE NO. 0509

BRIDGE PLANS

PROJ. MANAGER	BY	DATE
DESIGNED-DETAILED CHECKED-REVIEWED DESIGNED-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	B. NICHOLS M.R.P. B.J.N. <td>9/15/22 12/5/23</td>	9/15/22 12/5/23

FISH BRIDGE
PATTEE POND BROOK
WINSLOW
KENNEBEC COUNTY

DRIVE 1 CROSS SECTIONS

SHEET NUMBER

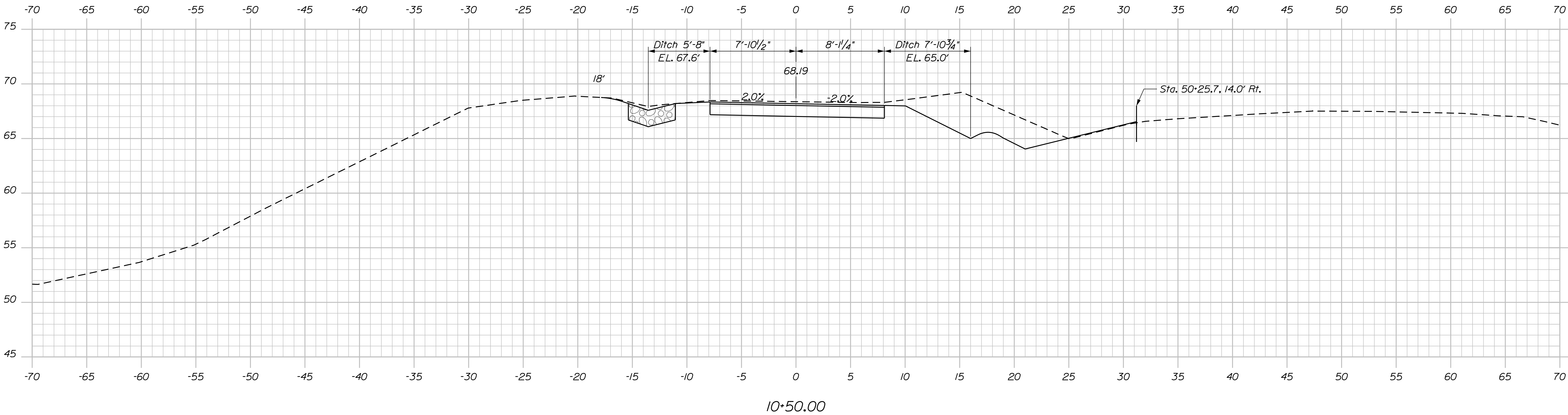
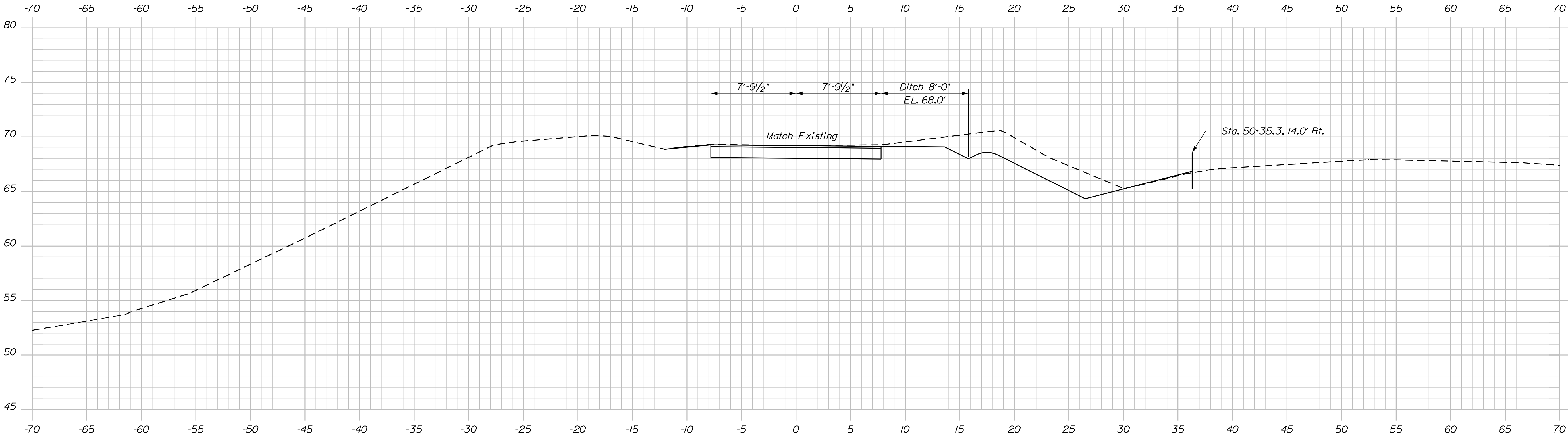
24

OF 35

Date:10/18/2024

Username: Brian.Nichols

Filename: ... \025_XSECT_ Dr 1 STA. 10+50_15.dgn Division: BRIDGE



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2783601	
WIN	27836.01
BRIDGE NO. 0509	BRIDGE PLANS

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	M.R.P.	9/15/22
CHECKED-REVIEWED	B.N.	12/15/23
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

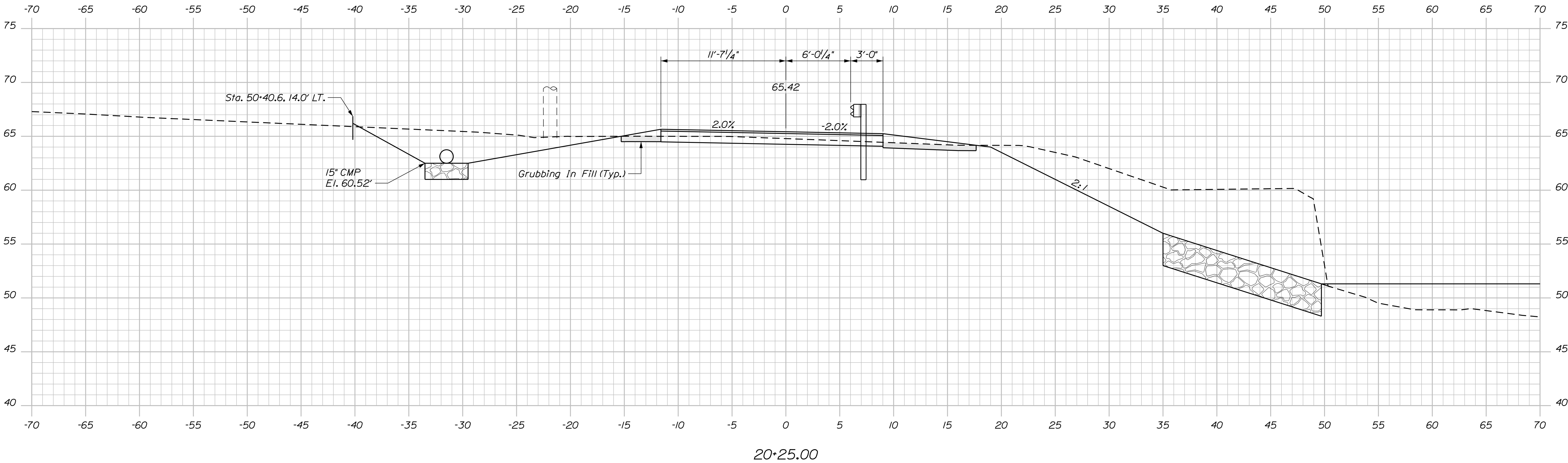
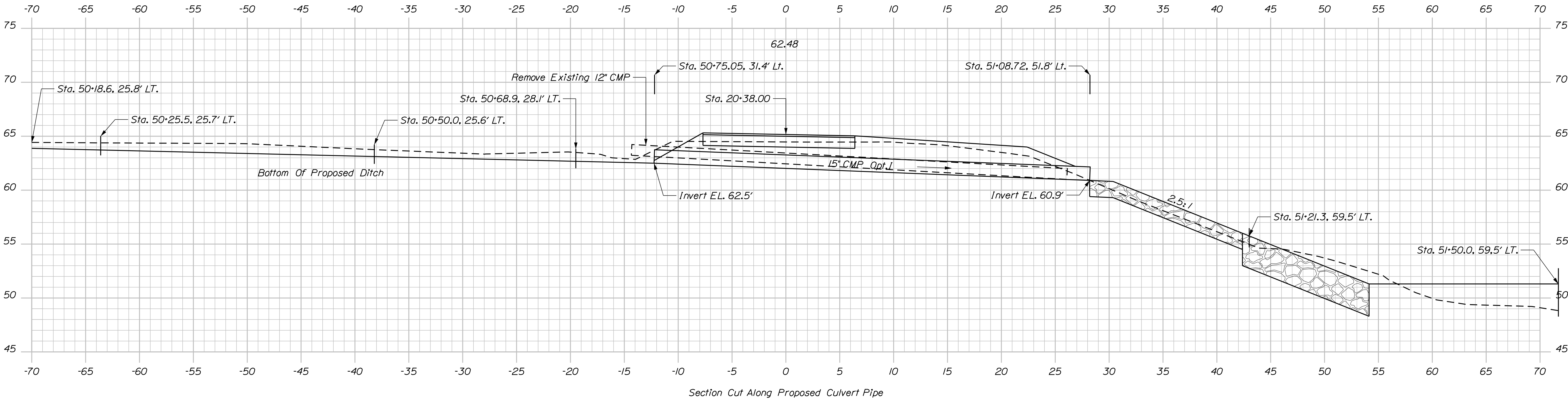
FISH BRIDGE	
PATTEE POND BROOK	
KENNEBEC COUNTY	
WINSLOW	
DRIVE 1 CROSS SECTIONS	

SHEET NUMBER
25
OF 35

Date:10/18/2024

Username: Brian.Nichols

Filename: ... \026_XSECT_ Dr 2 STA. 20+25_16.dgnDivision: BRIDGE



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2783601

WIN
27836.01

BRIDGE NO. 0509

BRIDGE PLANS

DATE

9/15/22

BY

MRP

PROJ. MANAGER

B. NICHOLS

DESIGNED-DETAILED

R. NICHOLS

CHECKED-REVIEWED

E. BREWER

DESIGNED-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

FISH BRIDGE
PATTEE POND BROOK
KENNEBEC COUNTY
WINSLOW

DRIVE 2 CROSS SECTIONS

SHEET NUMBER

26

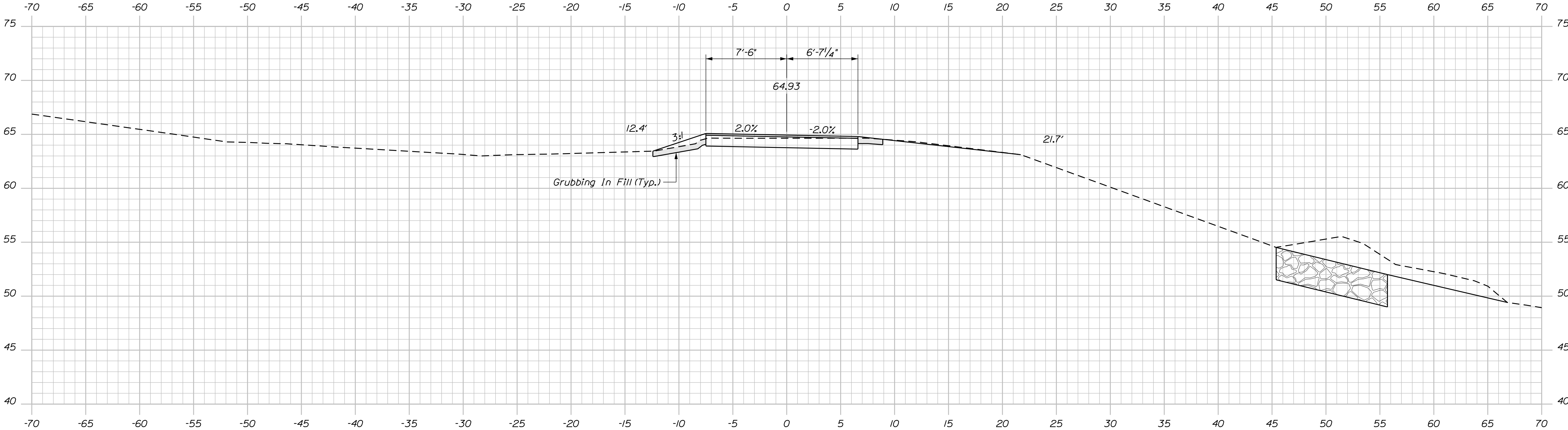
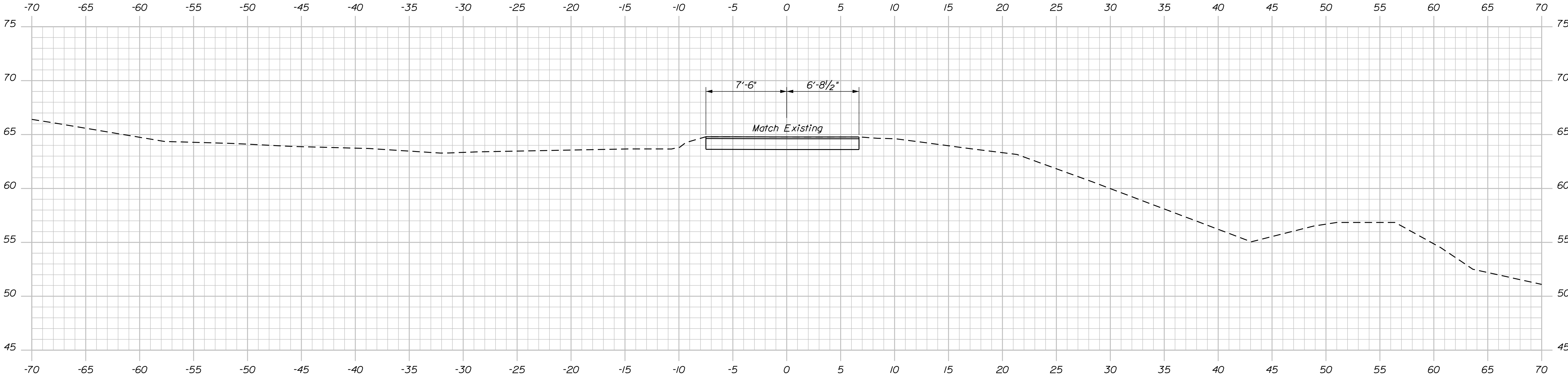
OF 35

Drive No. 2 Sta. 20+25.00 to Sta. 20+25.00

Username: Brian.Nichols

Date:10/18/2024

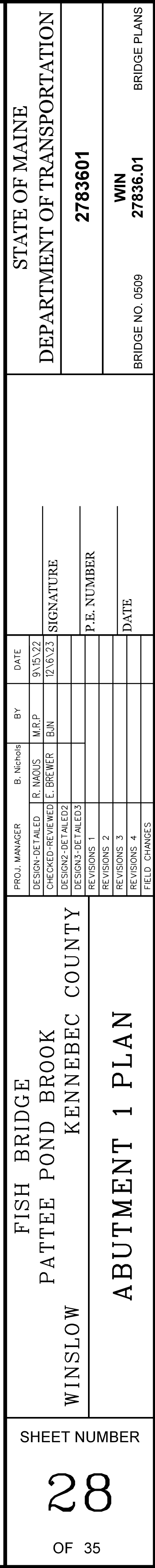
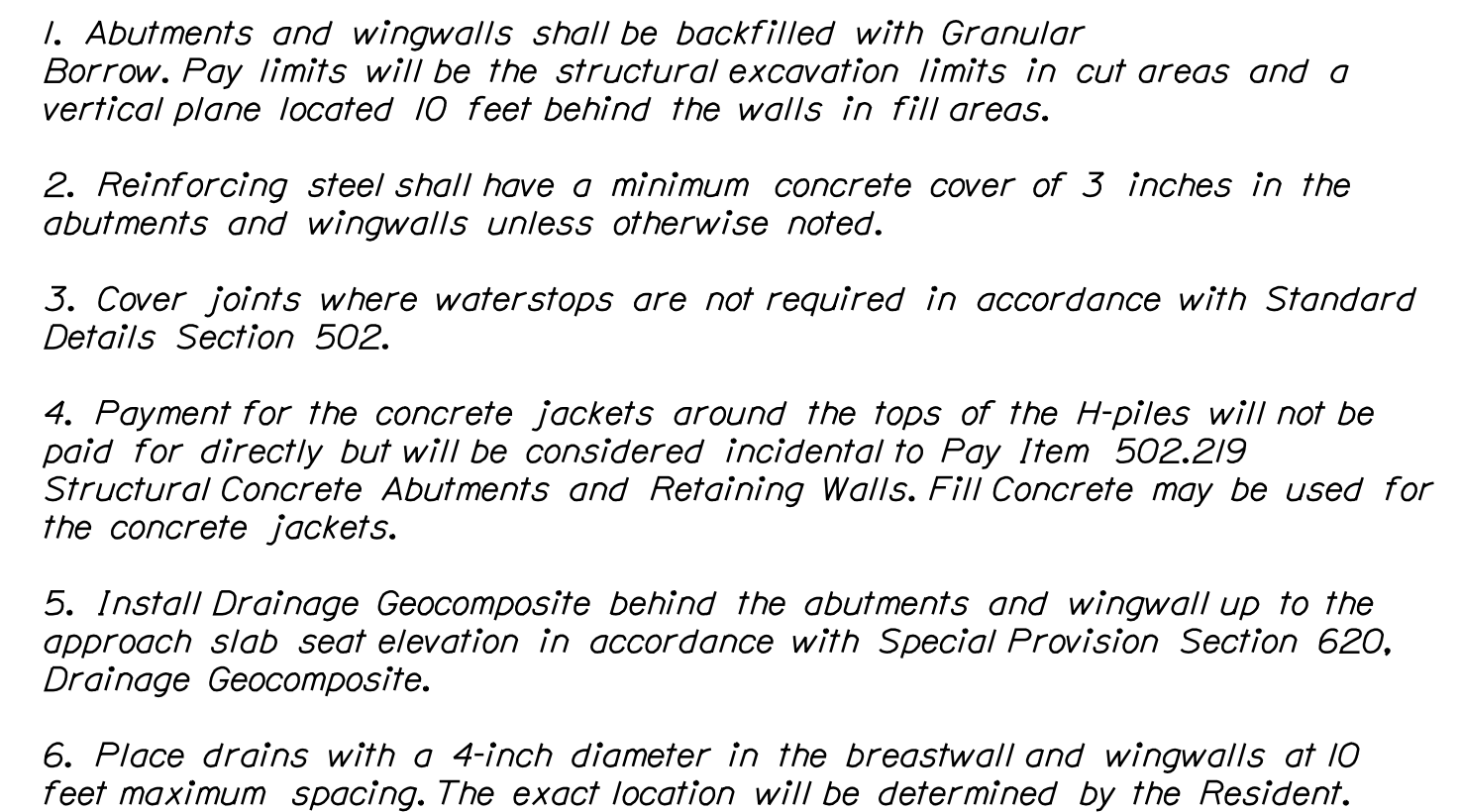
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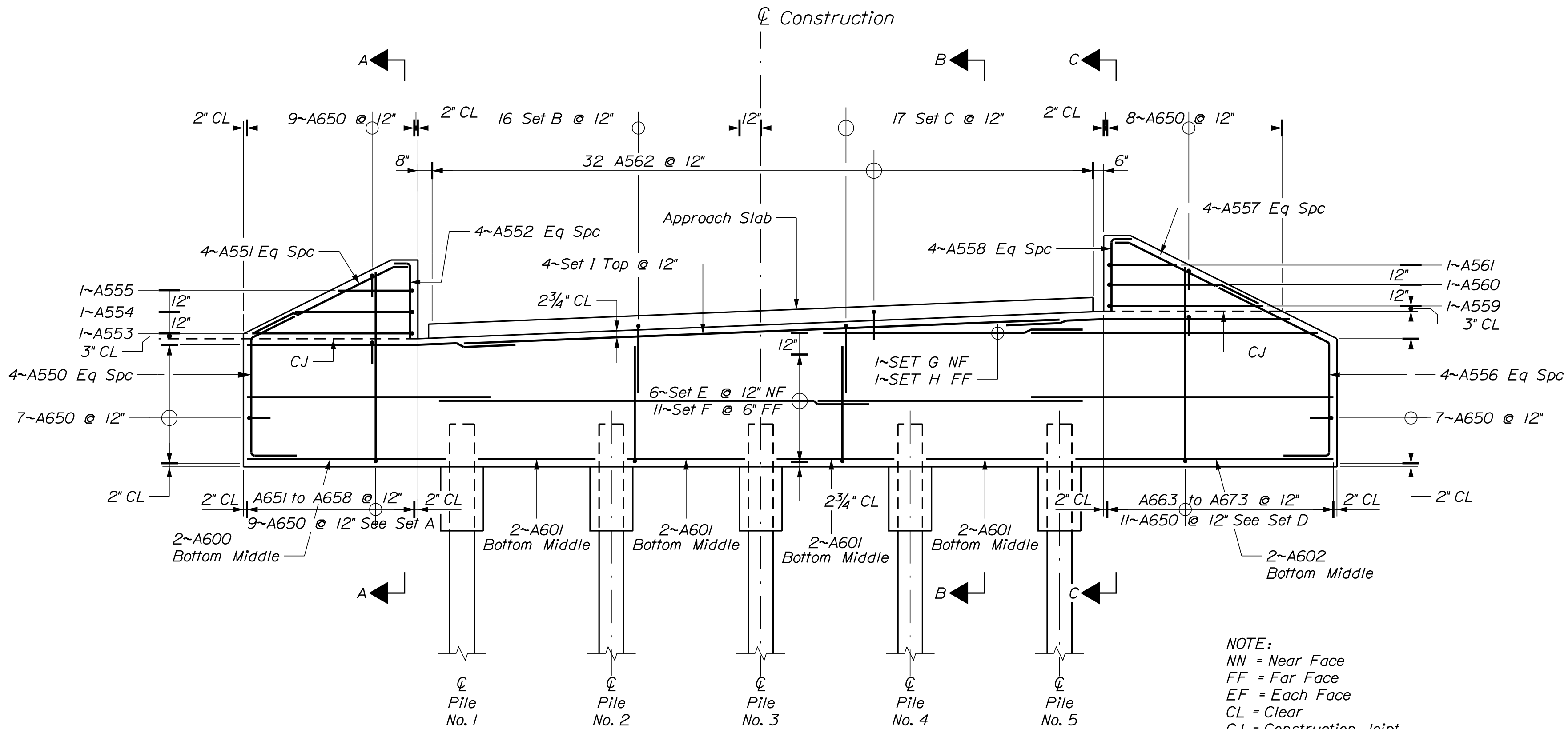


STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2783601		WIN 27836.01		BRIDGE NO. 0509	BRIDGE PLANS
	FISH BRIDGE PATTEE POND BROOK KENNEBEC COUNTY WINSLOW					
	DRIVE 2 CROSS SECTIONS					
SHEET NUMBER 27 OF 35						

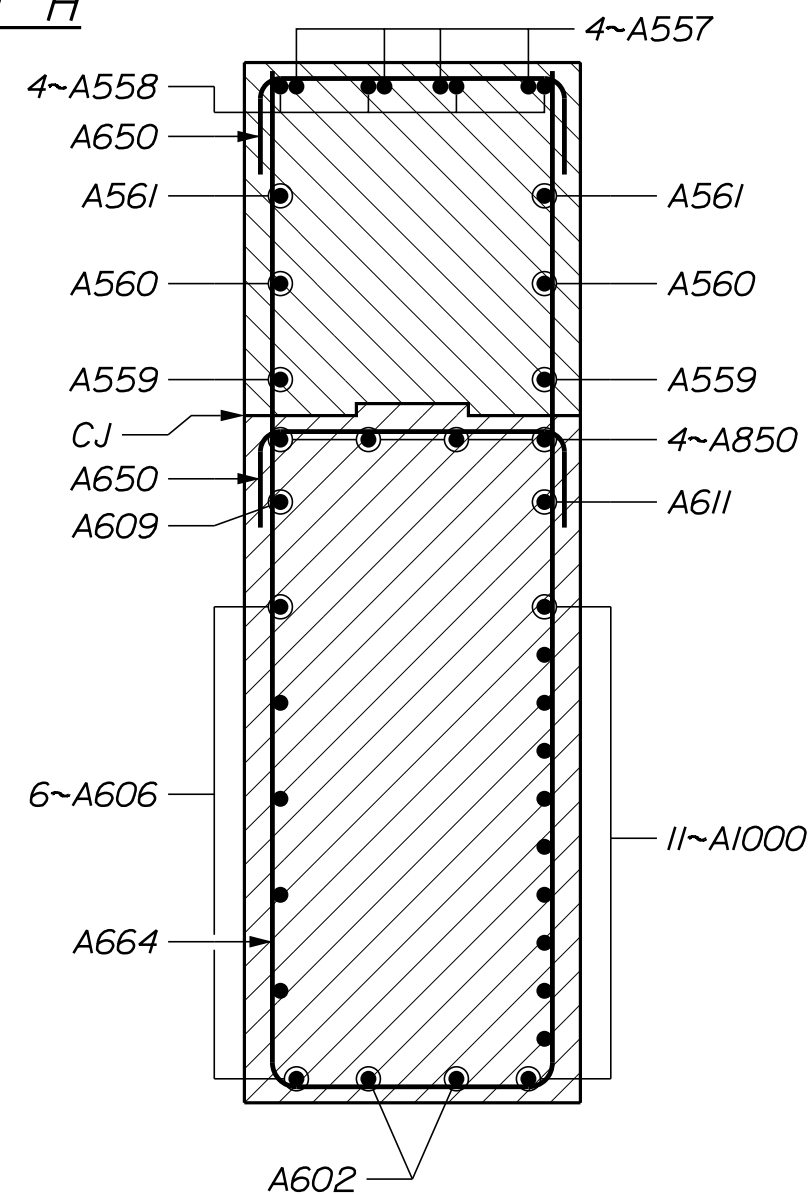
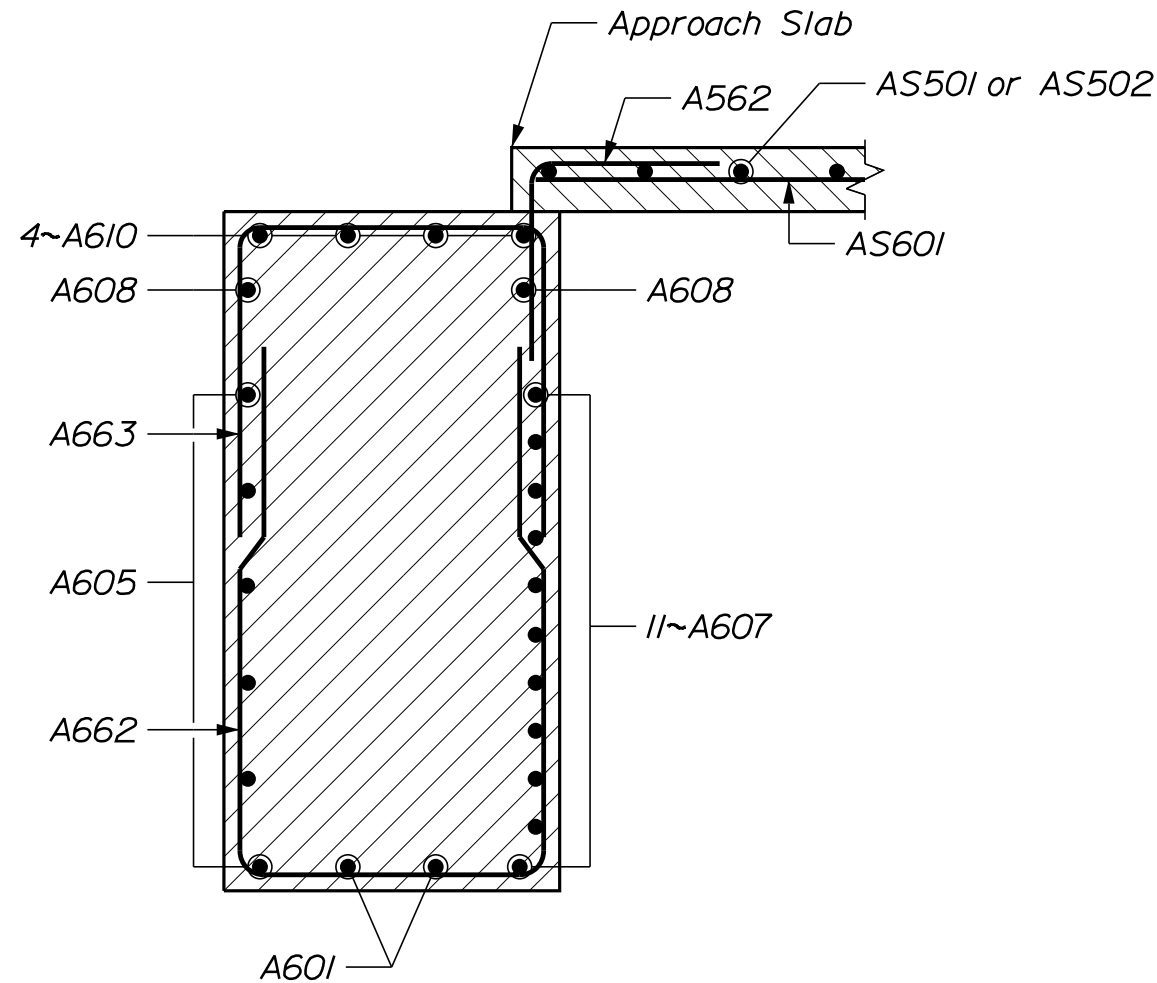
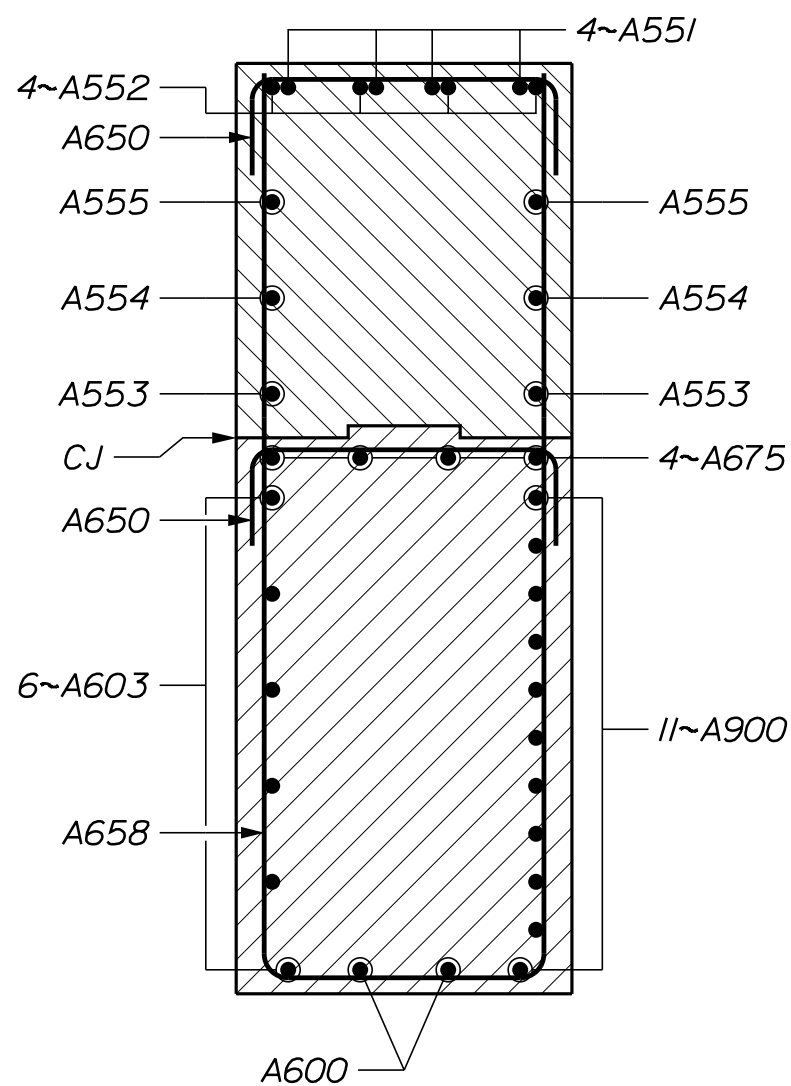
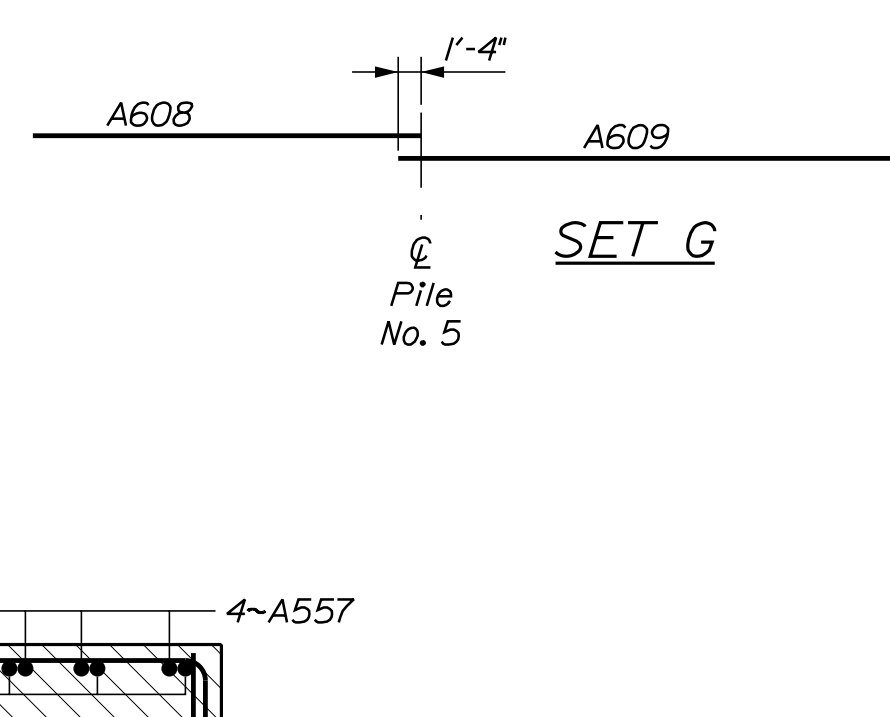
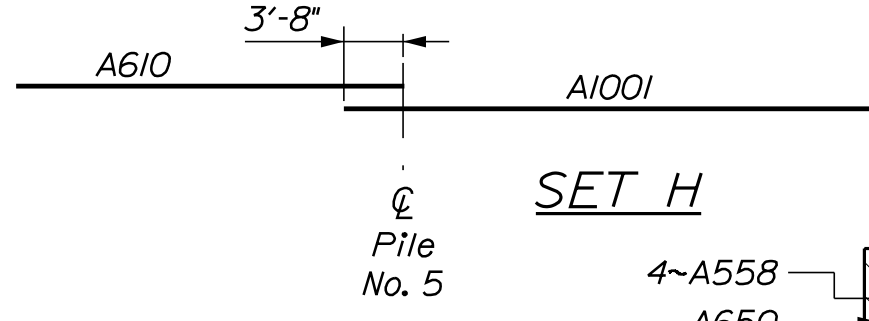
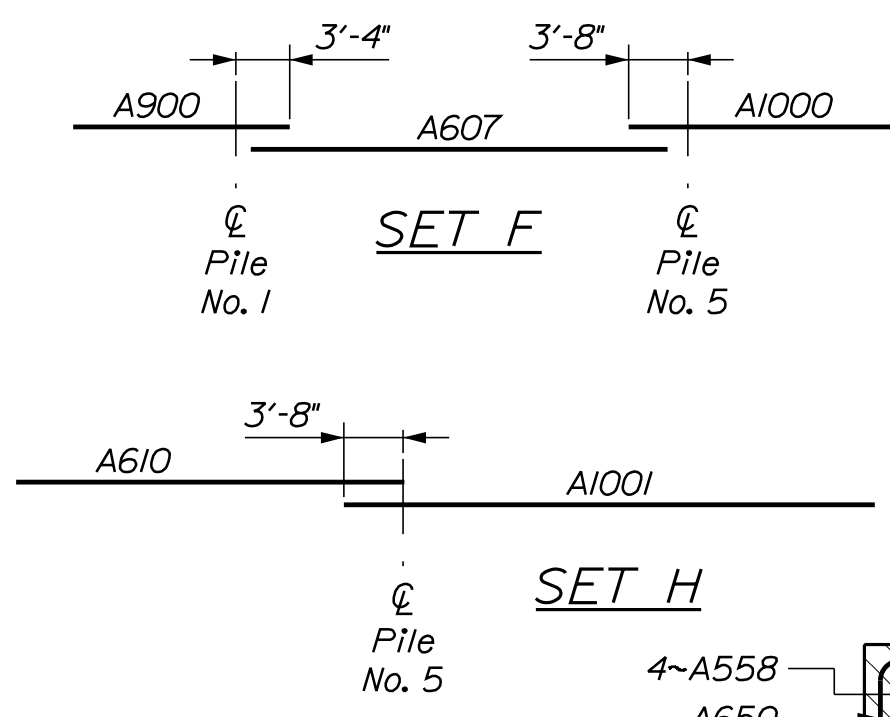
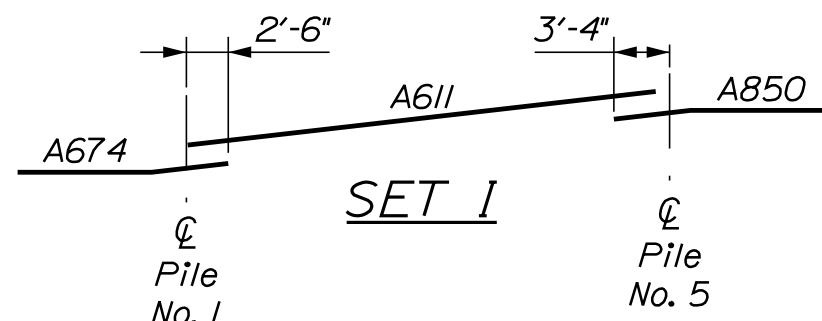
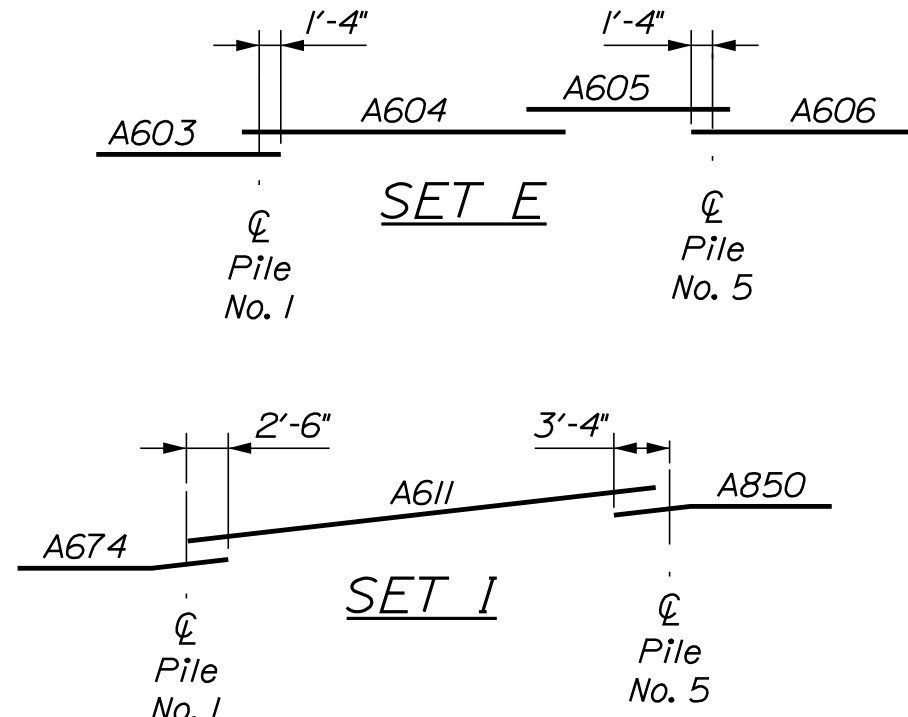
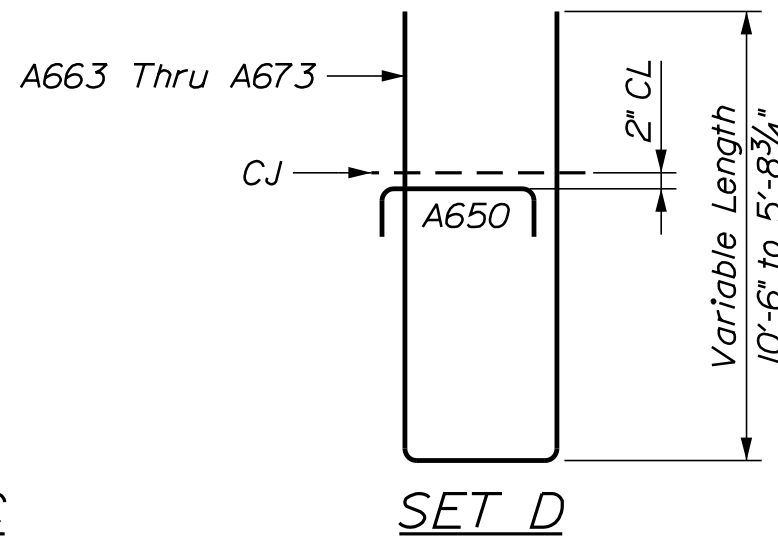
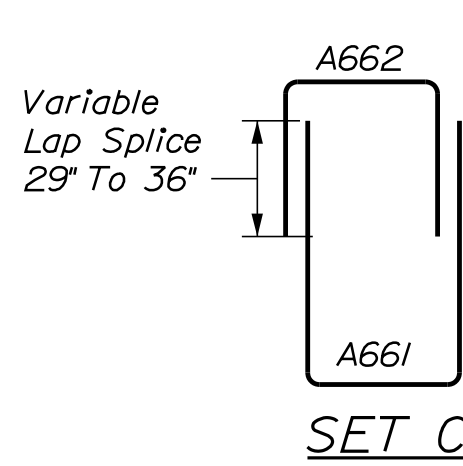
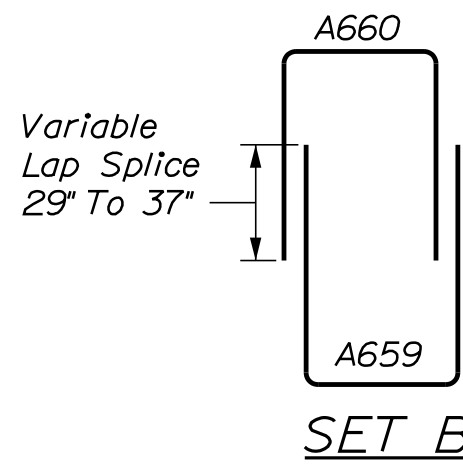
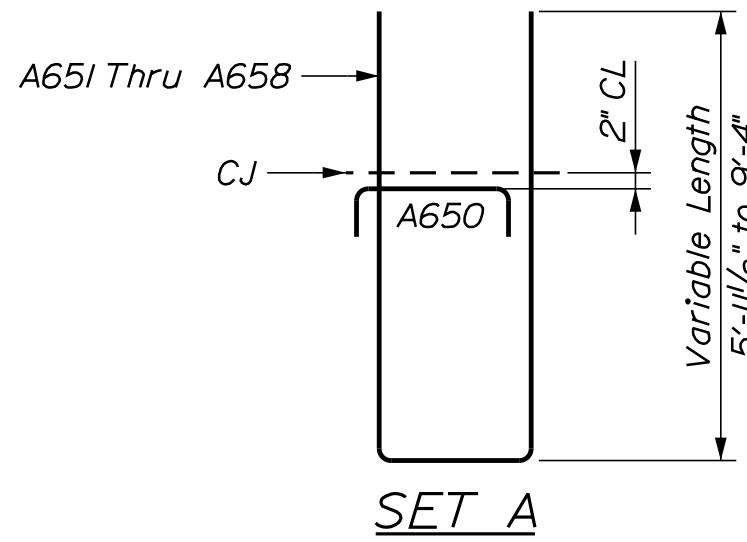
PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	MRP	9/15/22
CHECKED-REVIEWED	BIN	12/15/23
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE	P.E. NUMBER	DATE

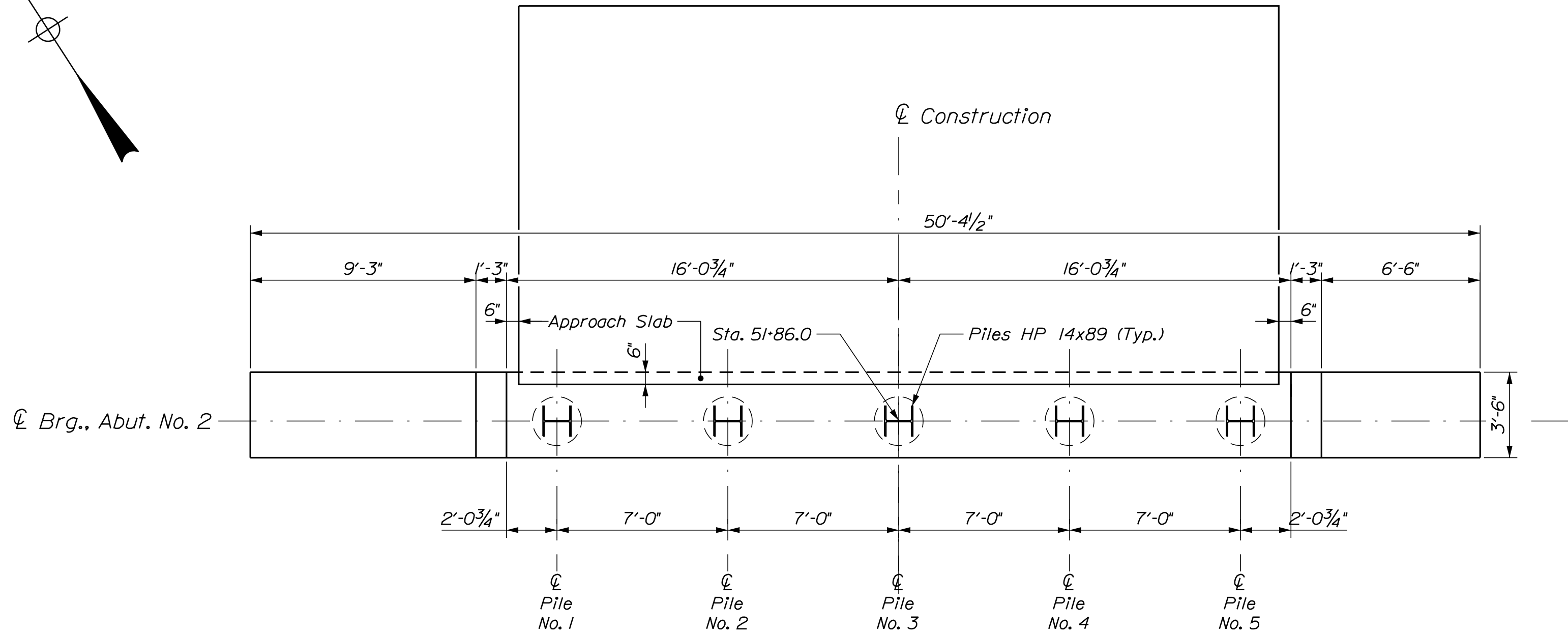
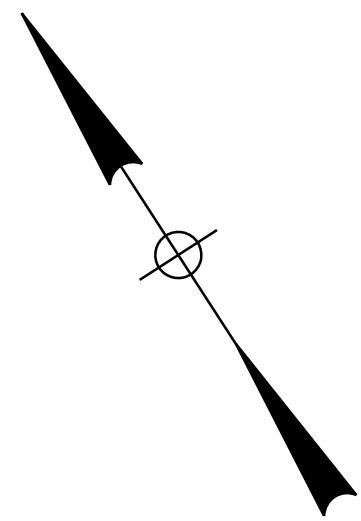




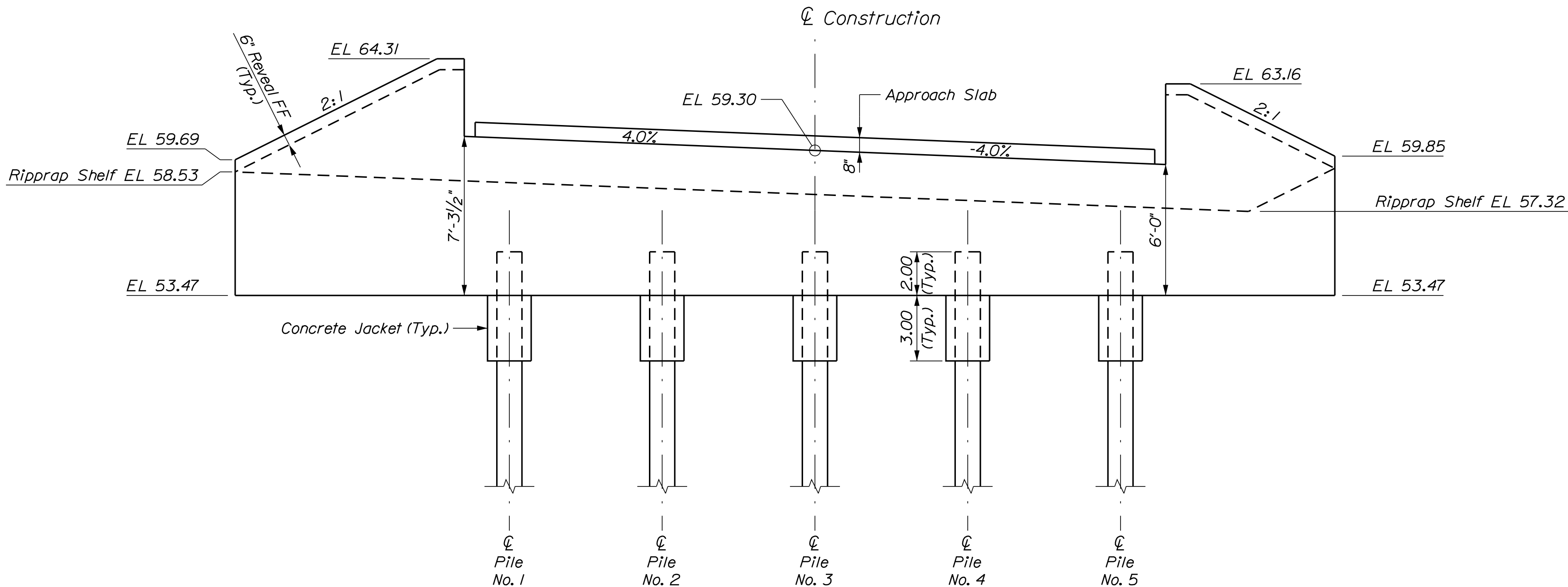
NOTE 2			
Bar Size	To	Bar Size	Lap Splice
#5	To	#5	24"
#5	To	#6	29"
#6	To	#6	29"
#6	To	#8	29"
#6	To	#9	29"
#6	To	#10	29"



PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	M.R.P.	9/15/22			
CHECKED-REVIEWED	B.N.	12/6/23			
DESIGN-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					



ABUTMENT NO.. 2
(Top View)



ABUTMENT NO. 2
(Elevation View)

Flow

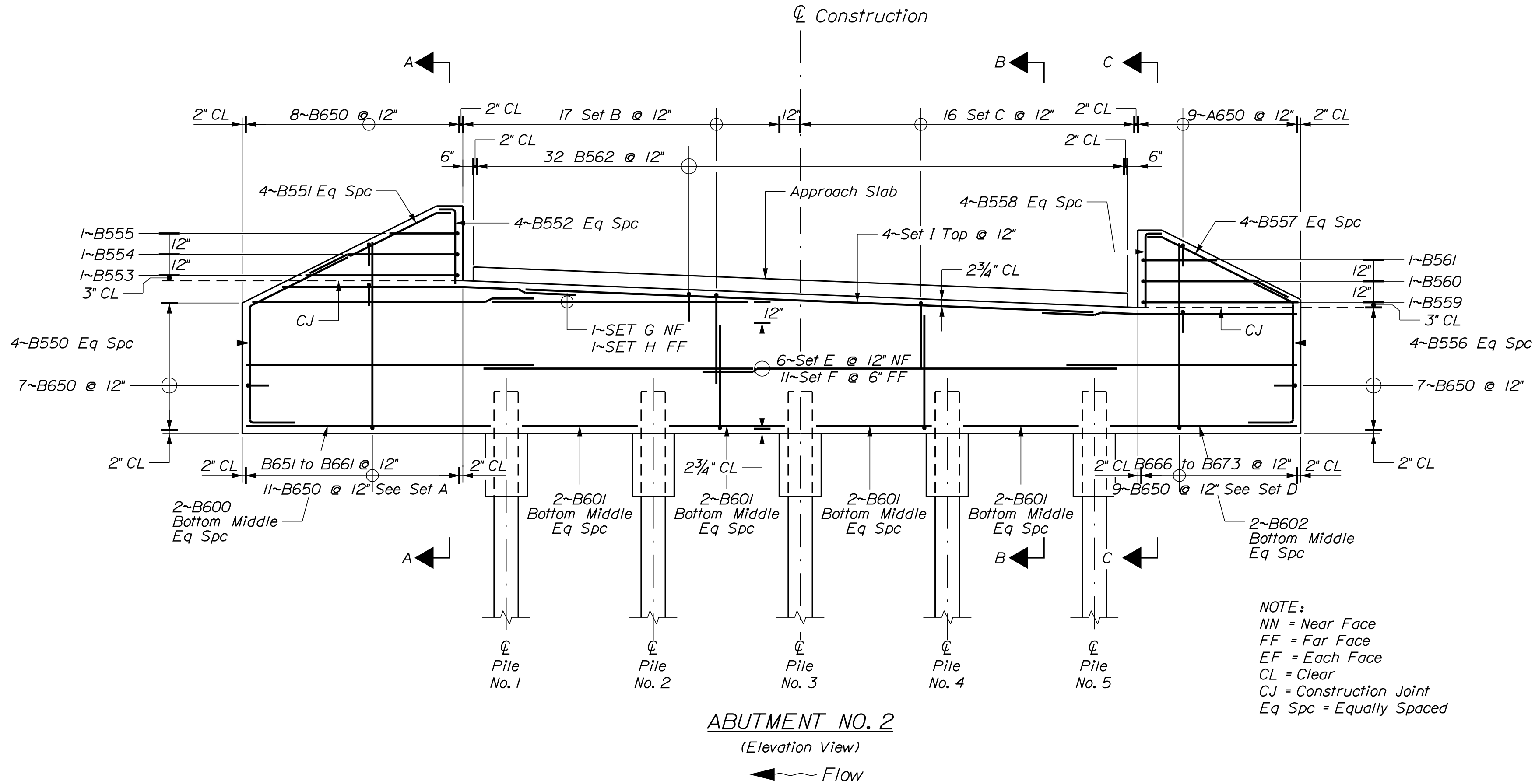
PILE NOTES

- The maximum factored pile load is 227 kips at the Strength I Limit State.
- Piles shall be driven to the required nominal resistance on or within bedrock in accordance with Standard Specification Section 501.
- Estimate of piles required:

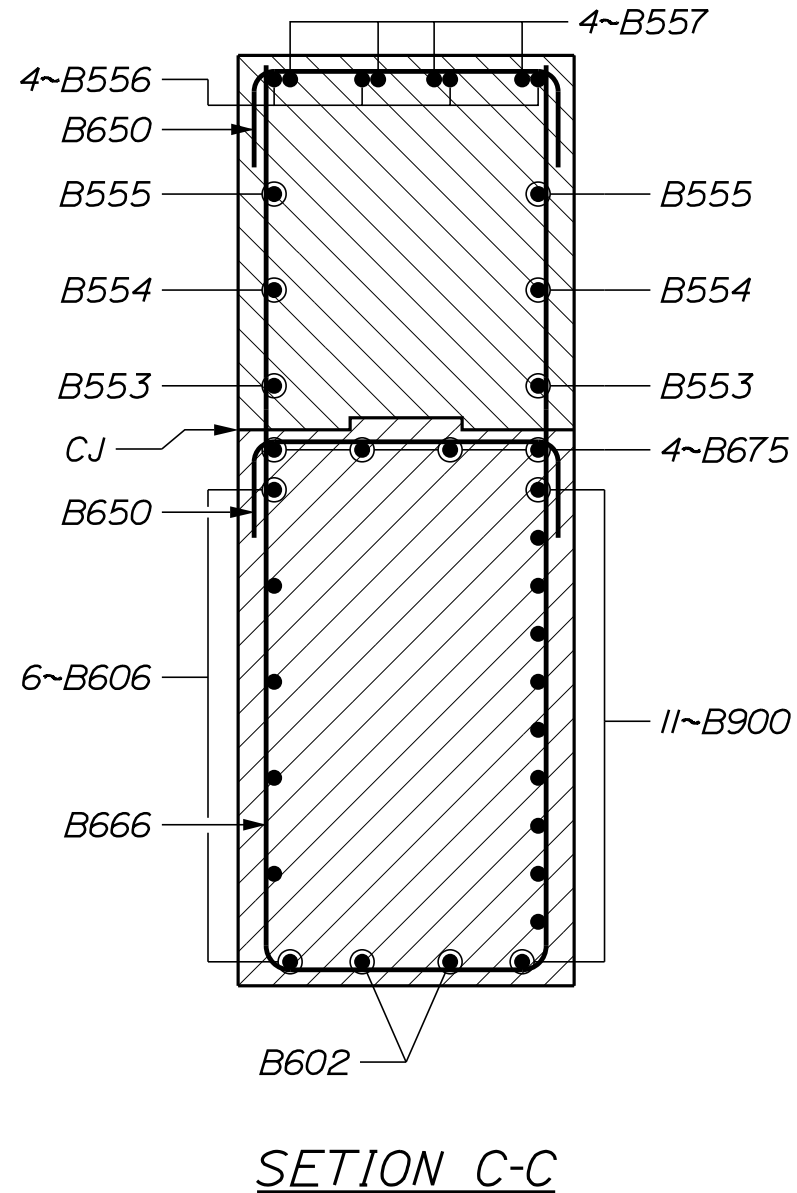
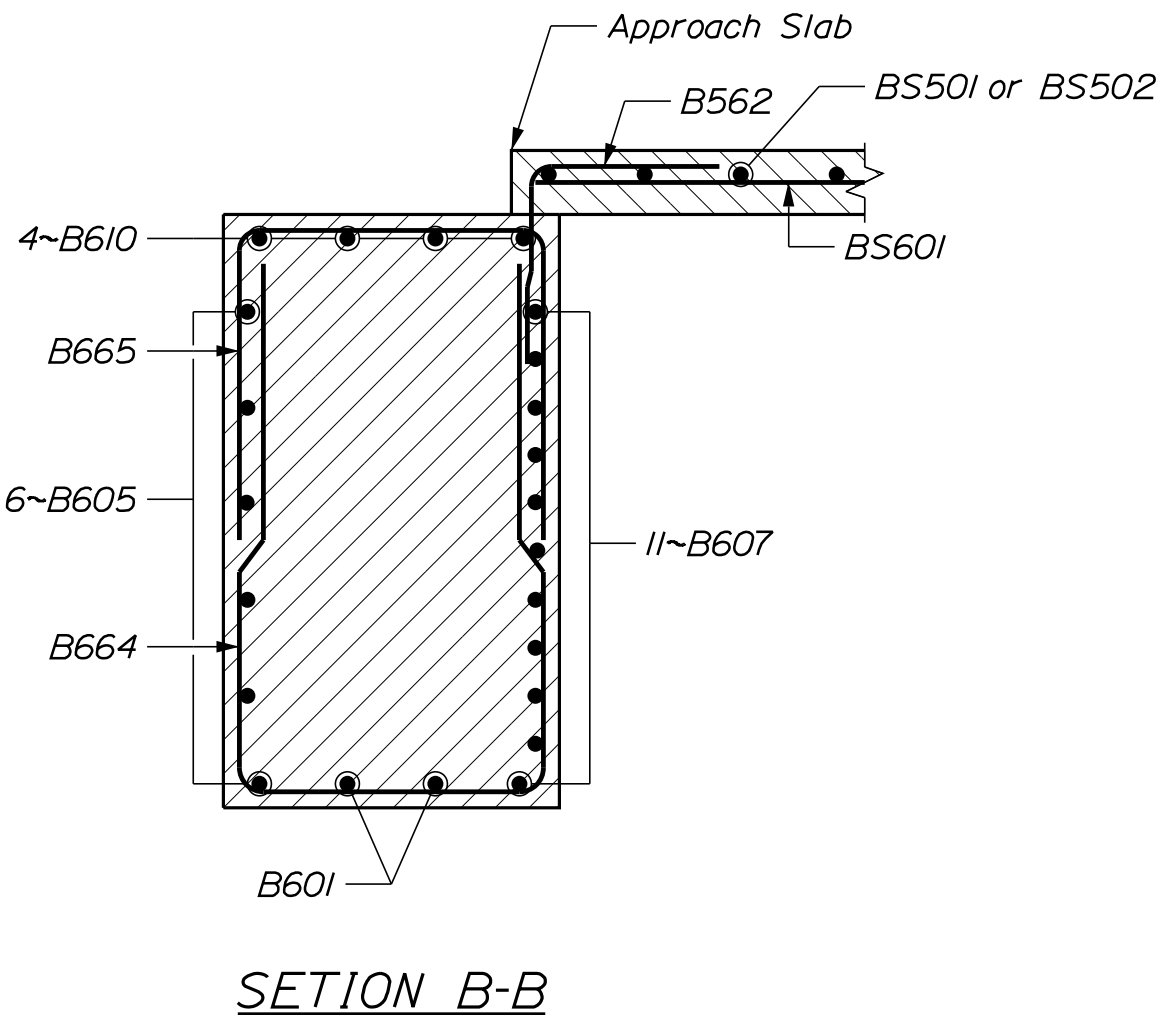
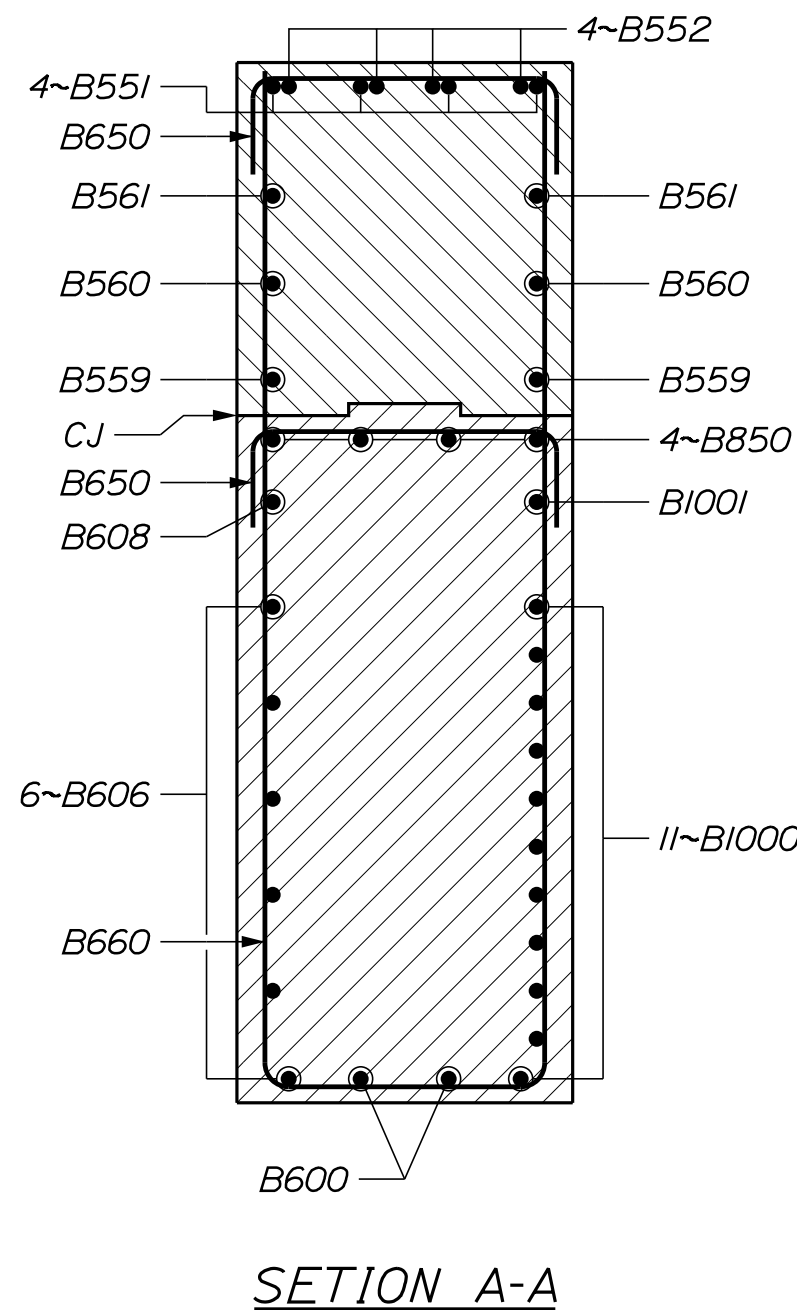
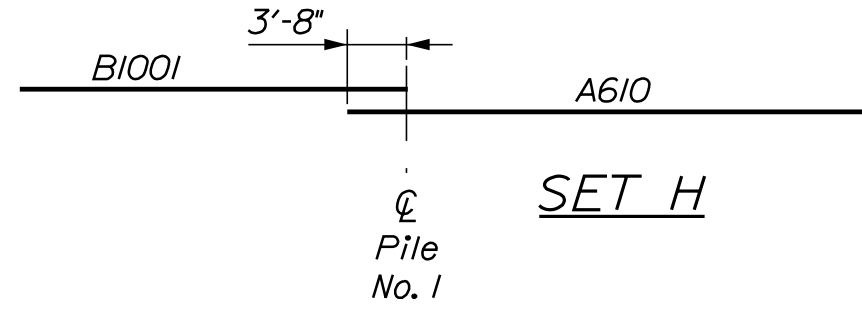
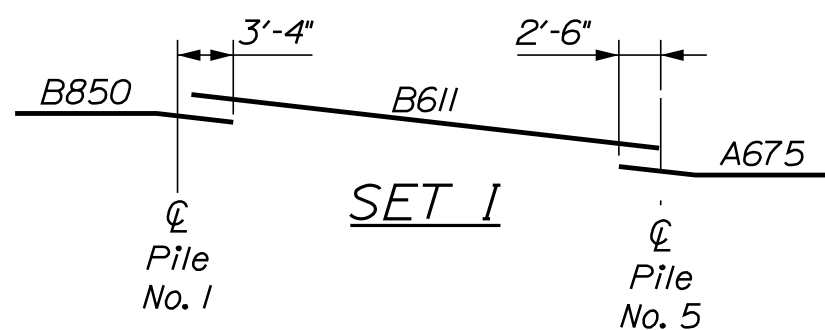
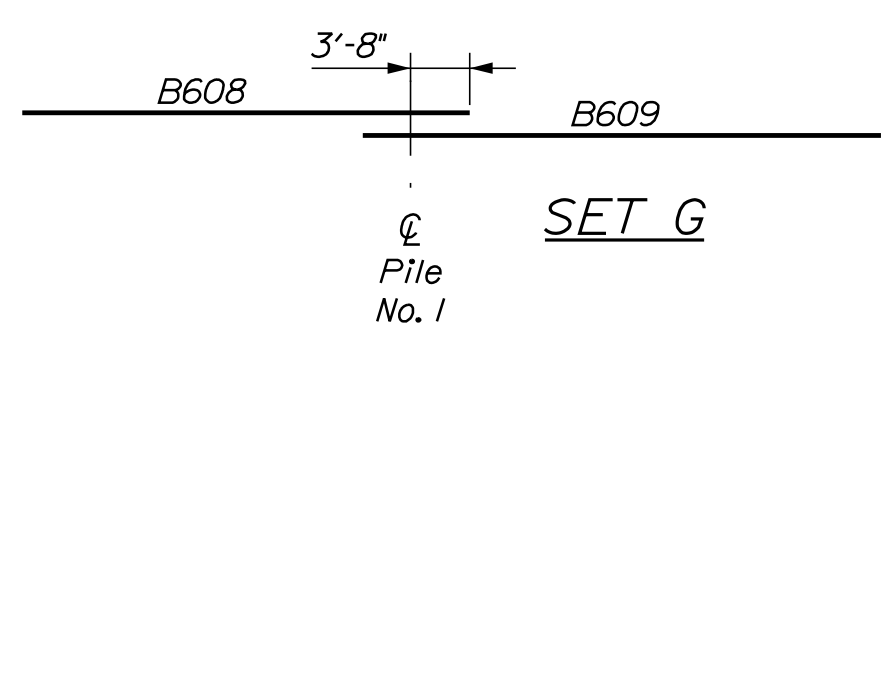
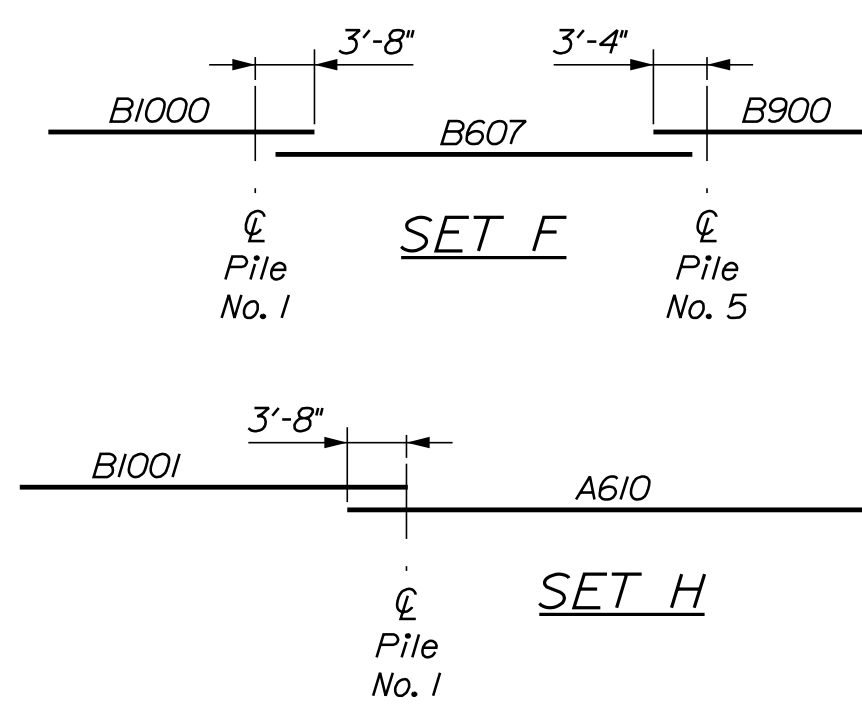
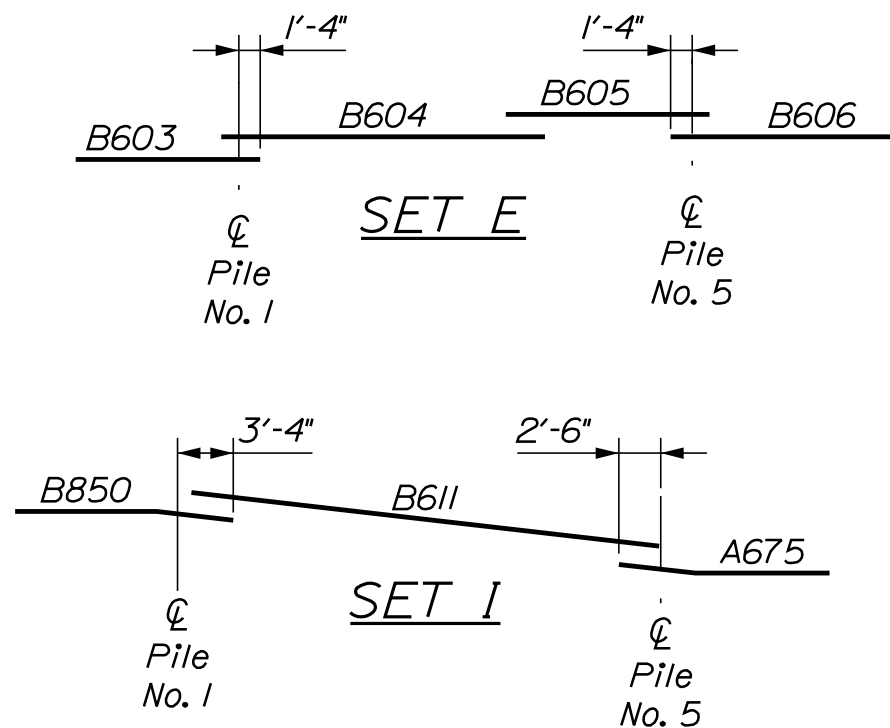
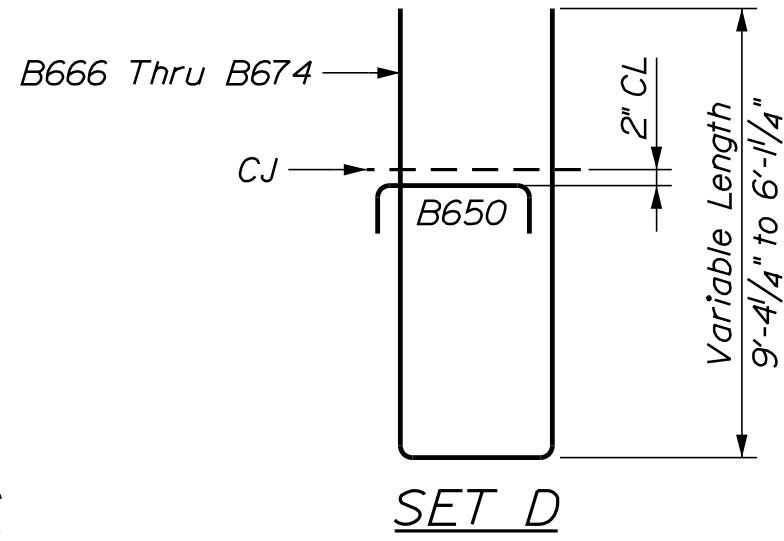
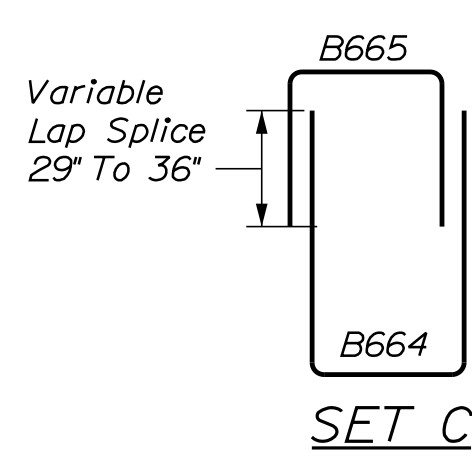
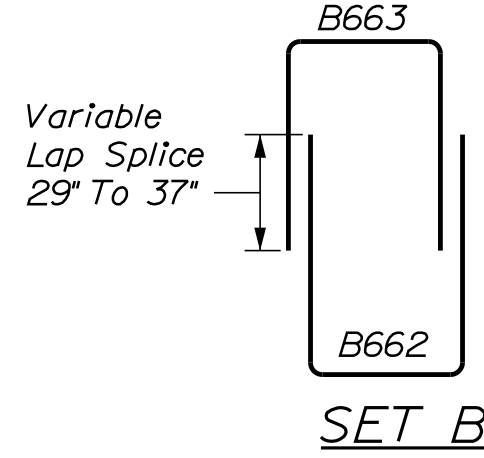
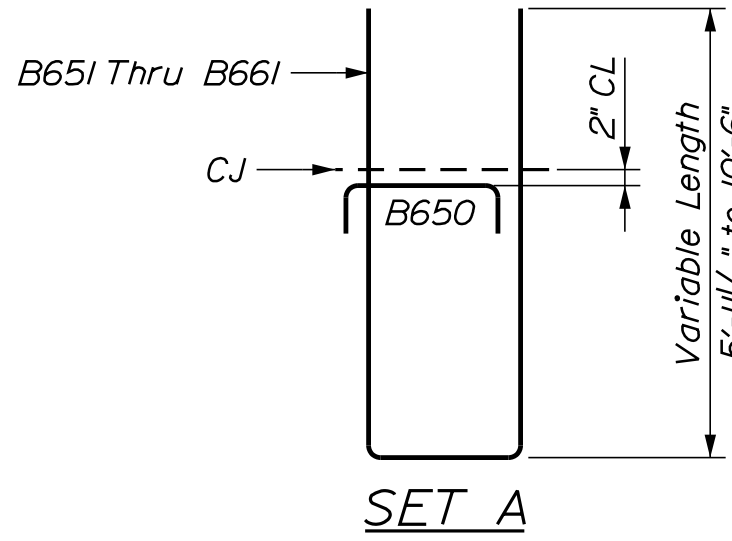
Abutment No. 1: 5 ~ HP 14x89 @ 33 feet
Abutment No. 2: 5 ~ HP 14x89 @ 26 feet

The order lengths of the piles shall include an additional 5 feet of length for each test pile to accommodate dynamic pile testing equipment.
- H-pile material shall be ASTM A572, Grade 50.
- All piles shall be equipped with a pile tip in accordance with Standard Specifications Subsections 501.048 , Prefabricated Pile Tips and 711.10 H-Beam Piles, Splices and Tips.
- Piles shall not be out of position shown by more than 2 inches in any direction.
- 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 Fy. The submittal analyses shall include the proposed stopping criteria based on the wave equation analysis and the proposed driving system.
- The Contractor shall perform 2 (two) dynamic load test(s) with 24-hour (minimum) restrike tests to confirm the nominal resistance of the piles. The required nominal resistance for the pile is the maximum 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 at each abutment.
- The subgrade at the proposed abutments is anticipated to consist of soft, sensitive clay and sandy fill soils. The subgrade soils are expected to be sensitive, so care should be taken to limit disturbance of the subgrade surface. The subgrade should be protected from unnecessary construction traffic and disturbance from heavy equipment. Any work or material to stabilize sensitive soils encountered by the Contractor will not be paid directly but shall be considered incidental to Item No. 206.082 - Structural Earth Excavation.
- The underlying sensitive Marine Clay deposit is subject to stain-softening (liquefaction) when disturbed. Therefore, ground vibration by heavy equipment should be avoided.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2783601		WIN		27836.01		BRIDGE NO. 0509		BRIDGE PLANS	
FISH BRIDGE		PATTEE POND BROOK		KENNEBEC COUNTY		WINSLOW		ABUTMENT 2 PLAN		SHEET NUMBER		30	
										OF 35			



NOTE 2			
Bar Size	To	Bar Size	Lap Splice
#5	To	#5	24"
#5	To	#6	29"
#6	To	#6	29"
#6	To	#8	29"
#6	To	#9	29"
#6	To	#10	29"



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2783601

BRIDGE NO. 0509
WIN
27836.01

BRIDGE PLANS

FISH BRIDGE
PATTEE POND BROOK
KENNEBEC COUNTY
WINSLOW

ABUTMENT 2 REINFORCING

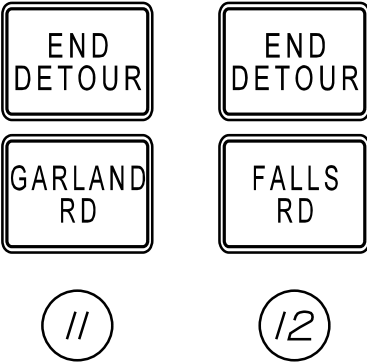
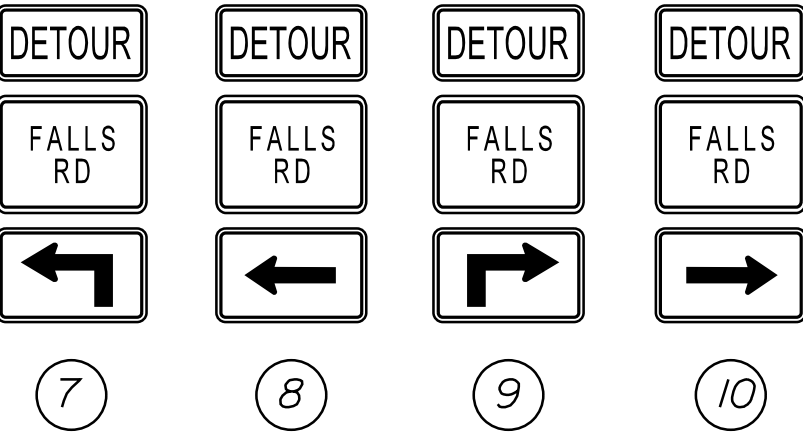
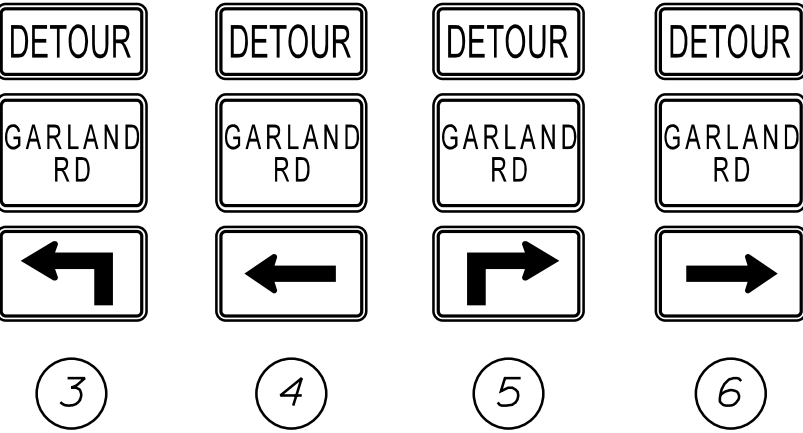
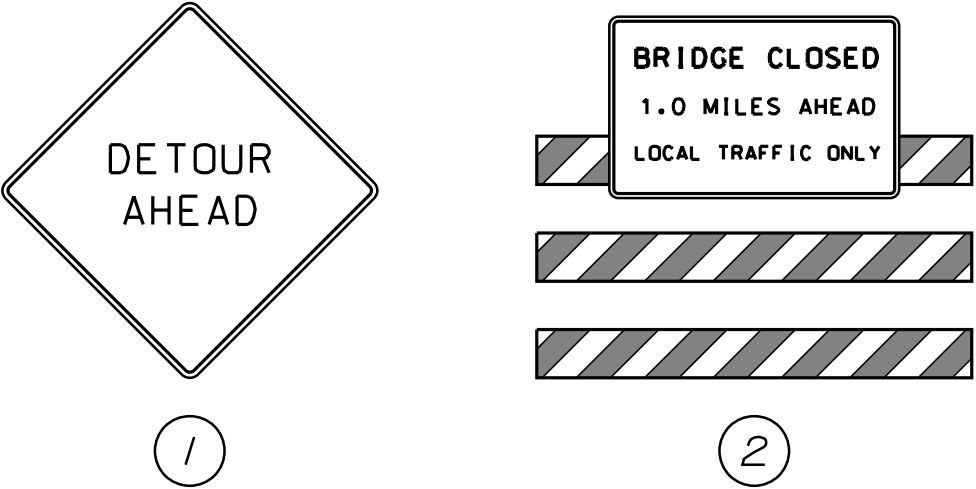
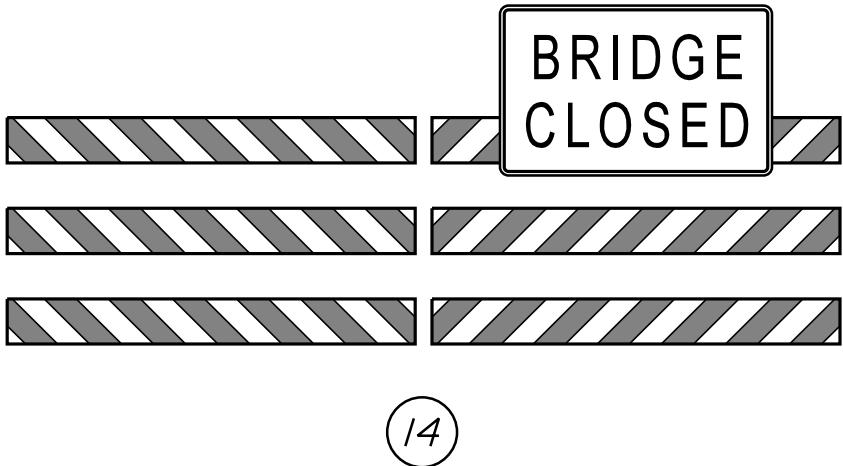
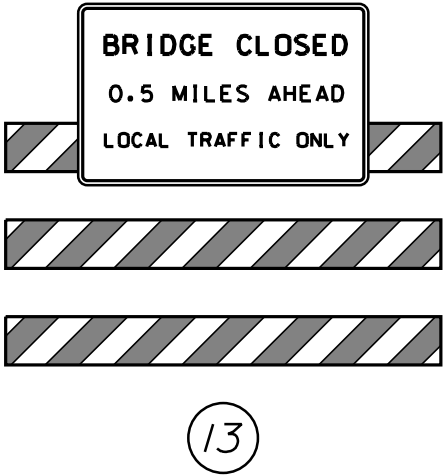
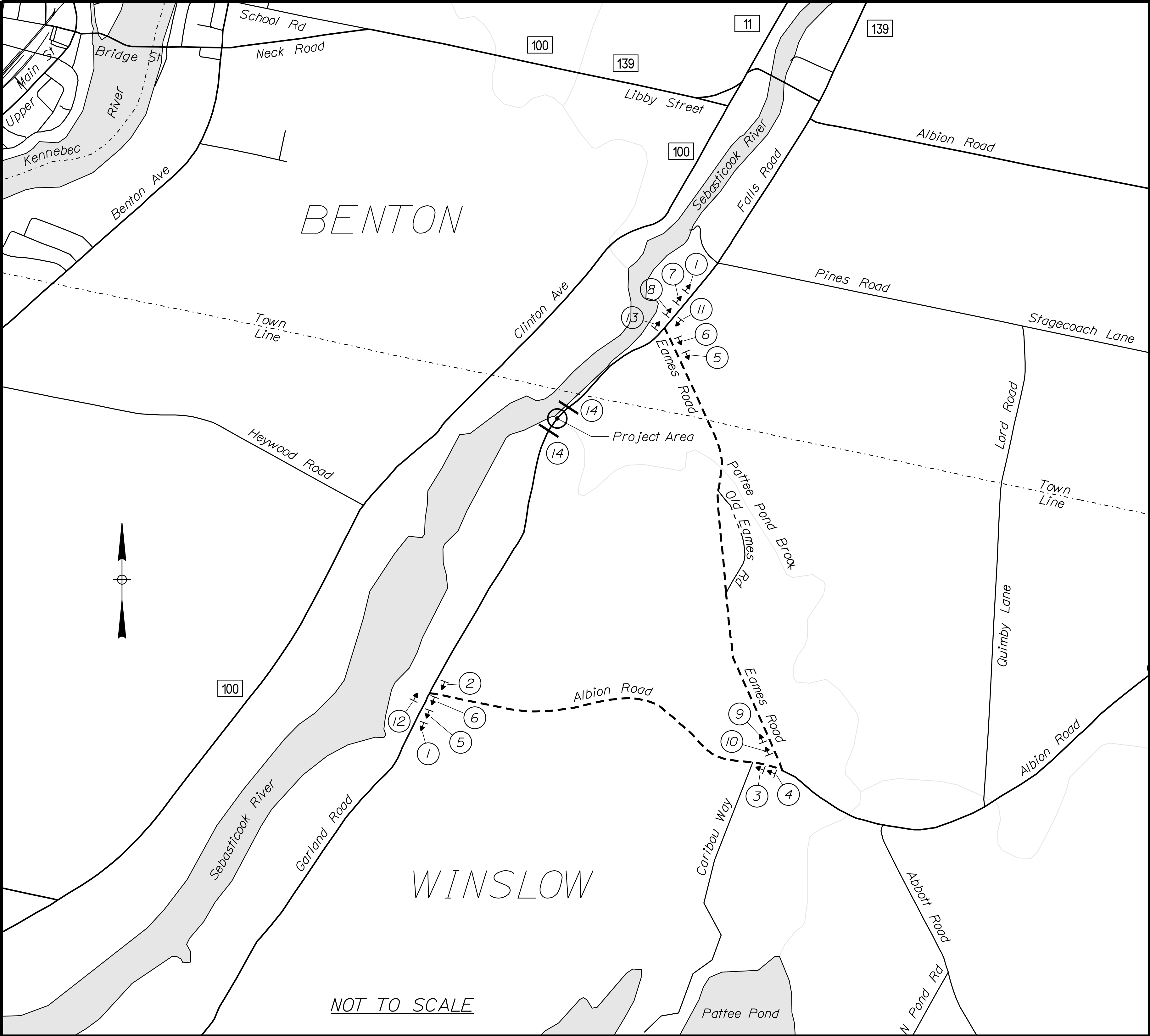
SHEET NUMBER

31

OF 35

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
B. Nichols	M.R.P.	9/15/22			
CHECKED-DETAILED	M.R.P.	12/6/23			
DESIGN-DETAILED	B.N.				
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

STRAIGHT BARS								BENT BARS															
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION	MARK	QTY	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION	
ABUTMENT NO. 1								ABUTMENT NO. 1															
A600	2	9'-4"	Bottom Abutment/Wing Wall					A550	4	10'-5 ³ / ₄ "	G	2'-7 ¹ / ₂ "	5'-10 ¹ / ₄ "	2'-0"					2'-4 ¹ / ₄ "	7'-0 ¹ / ₄ "			US Wing Wall
A601	8	5'-6"	Bottom Abutment					A551	4	7'-10 ¹ / ₄ "	V				6'-11 ³ / ₄ "	0'-10 ¹ / ₂ "			0'-4 ³ / ₄ "				US Wing Wall
A602	2	12'-1"	Bottom Abutment/Wing Wall					A552	4	4'-4 ³ / ₄ "	L	3'-5 ³ / ₄ "	0'-11"										US Wing Wall
A603	6	11'-5"	Wing Wall/Part of Set E					A553	1	18'-3"	U	7'-7 ¹ / ₄ "	3'-0 ¹ / ₂ "	7'-7 ¹ / ₄ "									US Wing Wall
A604	6	20'-0"	Abutment/Part of Set E					A554	1	14'-3"	U	5'-7 ¹ / ₄ "	3'-0 ¹ / ₂ "	5'-7 ¹ / ₄ "									US Wing Wall
A605	6	12'-7"	Abutment/Part of Set E					A555	1	10'-3"	U	3'-7 ¹ / ₄ "	3'-0 ¹ / ₂ "	3'-7 ¹ / ₄ "									US Wing Wall
A606	6	14'-2"	Wing Wall/Part of Set E					A556	4	13'-2 ³ / ₄ "	G	5'-6 ³ / ₄ "	5'-8"	2'-0"					5'-0 ¹ / ₄ "	8'-2"			DS Wing Wall
A607	11	25'-10"	Abutment/Part of Set F					A557	4	7'-11 ¹ / ₄ "	V				7'-0 ³ / ₄ "	0'-10 ¹ / ₂ "			0'-4 ¹ / ₂ "				DS Wing Wall
A608	1	12'-2"	Abutment/Part of Set H					A558	4	4'-3"	L	3'-4"	0'-11"										DS Wing Wall
A609	1	13'-5 ¹ / ₄ "	Abutment/Part of Set H					A559	1	17'-8"	U	7'-3 ³ / ₄ "	3'-0 ¹ / ₂ "	7'-3 ³ / ₄ "									DS Wing Wall
A610	1	9'-10"	Abutment/Part of Set G					A560	1	13'-5"	U	5'-2 ¹ / ₄ "	3'-0 ¹ / ₂ "	5'-2 ¹ / ₄ "									DS Wing Wall
A611	4	27'-11"	Abutment/Part of Set I					A561	1	9'-6 ¹ / ₂ "	U	3'-3"	3'-0 ¹ / ₂ "	3'-3"									DS Wing Wall
MARK	QTY.	LENGTH	LOCATION					A562	32	3'-6"	L	1'-9"	1'-9"	X									BRIDGE SEAT
A900	11	13'-5"	Abutment/Part of Set F					MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION	
MARK	QTY.	LENGTH	LOCATION					A650	51	5'-2"	U	1'-0"	3'-2"	1'-0"									US & DS Wing Wall
A1000	11	16'-6"	Abutment/Part of Set F					A651	1	15'-1"	U	5'-11 ¹ / ₂ "	3'-2"	5'-11 ¹ / ₂ "									US Wing Wall/Part of Set A
A1001	1	13'-5 ¹ / ₄ "	Abutment/Part of Set H					A652	1	16'-1"	U	6'-5 ¹ / ₂ "	3'-2"	6'-5 ¹ / ₂ "									US Wing Wall/Part of Set A
								A653	1	17'-1"	U	6'-11 ¹ / ₂ "	3'-2"	6'-11 ¹ / ₂ "									US Wing Wall/Part of Set A
								A654	1	18'-1"	U	7'-5 ¹ / ₂ "	3'-2"	7'-5 ¹ / ₂ "									US Wing Wall/Part of Set A
								A655	1	19'-1"	U	7'-11 ¹ / ₂ "	3'-2"	7'-11 ¹ / ₂ "									US Wing Wall/Part of Set A
								A656	1	20'-1"	U	8'-5 ¹ / ₂ "	3'-2"	8'-5 ¹ / ₂ "									US Wing Wall/Part of Set A
								A657	1	21'-1"	U	8'-11 ¹ / ₂ "	3'-2"	8'-11 ¹ / ₂ "									US Wing Wall/Part of Set A
								A658	2	21'-10 ¹ / ₂ "	U	9'-4 ¹ / ₄ "	3'-2"	9'-4 ¹ / ₄ "									US Wing Wall/Part of Set A
								A659	16	13'-2"	U	5'-0"	3'-2"	5'-0"									ABUTMENT/Part of Set B
								A660	16	11'-10"	U	4'-4"	3'-2"	4'-4"									ABUTMENT/Part of Set B
				MARK	QTY.	LENGTH	LOCATION	A661	17	14'-2"	U	5'-6"	3'-2"	5'-6"									ABUTMENT/Part of Set C
				APPROACH SLAB				A662	17	9'-8"	U	3'-3"	3'-2"	3'-3"									ABUTMENT/Part of Set C
				AS500	32	22'-0"	Approach Slab	A663	2	24'-2"	U	10'-6"	3'-2"	10'-6"									DS Wing Wall/Part of Set D
				AS501	32	10'-6"	Approach Slab	A664	1	23'-2 ¹ / ₂ "	U	10'-0 ¹ / ₄ "	3'-2"	10'-0 ¹ / ₄ "									DS Wing Wall/Part of Set D
				MARK	QTY.	LENGTH	LOCATION	A665	1	22'-2 ¹ / ₂ "	U	9'-6 ¹ / ₄ "	3'-2"	9'-6 ¹ / ₄ "									DS Wing Wall/Part of Set D
				AS600	126	15'-2"	Approach Slab	A666	1	21'-2 ¹ / ₂ "	U	9'-0 ¹ / ₄ "	3'-2"	9'-0 ¹ / ₄ "									DS Wing Wall/Part of Set D
								A667	1	20'-2 ¹ / ₂ "	U	8'-6 ¹ / ₄ "	3'-2"	8'-6 ¹ / ₄ "									DS Wing Wall/Part of Set D
								A668	1	19'-2 ¹ / ₂ "	U	8'-0 ¹ / ₄ "	3'-2"	8'-0 ¹ / ₄ "									DS Wing Wall/Part of Set D
								A669	1	18'-2 ¹ / ₂ "	U	7'-6 ¹ / ₄ "	3'-2"	7'-6 ¹ / ₄ "									DS Wing Wall/Part of Set D
								A670	1	17'-1"	U	6'-11 ¹ / ₂ "	3'-2"	6'-11 ¹ / ₂ "									DS Wing Wall/Part of Set D
								A671	1	16'-2 ¹ / ₂ "	U	6'-6 ¹ / ₄ "	3'-2"	6'-6 ¹ / ₄ "									DS Wing Wall/Part of Set D
								A672	1	15'-2 ¹ / ₂ "	U	6'-0 ¹ / ₄ "	3'-2"	6'-0 ¹ / ₄ "									DS Wing Wall/Part of Set D
								A673	1	14'-7 ¹ / ₂ "	U	5'-8 ³ / ₄ "	3'-2"	5'-8 ³ / ₄ "									DS Wing Wall/Part of Set D
								A675	4	12'-6 ³ / ₄ "	V				8'-0"	4'-6 ³ / ₄ "						DS Wing Wall/Part of Set D	
								MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION	
								A850	4	13'-0 ¹ / ₂ "	V				8'-5 ¹ / ₂ "	4'-7"			0'-2 ¹ / ₄ "				ABUTMENT/Part of Set I
ABUTMENT NO. 2								ABUTMENT NO. 2															
B600	2	11'-8"	Bottom Abutment/Wing Wall					B550	4	13'-0 ¹ / ₄ "	G	5'-1 ¹ / ₂ "	5'-10 ³ / ₄ "	2'-0"					4'-6 ¹ / ₂ "	8'-2 ¹ / ₄ "			DS Wing Wall
B601	8	5'-6 ¹ / ₄ "	Bottom Abutment					B551	4	8'-1"	V				7'-1"	1'-0"			0'-4 ¹ / ₂ "				DS Wing Wall
B602	2	8'-11"	Bottom Abutment/Wing Wall					B552	4	4'-4 ³ / ₄ "	L	3'-4 ³ / ₄ "	1'-0"										DS Wing Wall
B603	6	13'-8 ³ / ₄ "	Wing Wall/Part of Set E					B553	1	17'-8 ¹ / ₂ "	U	7'-4"	3'-0 ¹ / ₂ "	7'-4"									DS Wing Wall
B604	6	12'-10"	Abutment/Part of Set E					B554	1	13'-8 ¹ / ₂ "	U	5'-4"	3'-0 ¹ / ₂ "	5'-4"									DS Wing Wall
B605	6	19'-9"	Abutment/Part of Set E					B555	1	9'-8 ¹ / ₂ "	U	3'-4"	3'-0 ¹ / ₂ "	3'-4"									DS Wing Wall
B606	6	10'-11 ³ / ₄ "	Wing Wall/Part of Set E					B556	4	10'-3 ¹ / ₄ "	G	2'-2"	6'-1 ¹ / ₄ "	2'-0"					1'-11 ¹ / ₄ "	7'-1"			US Wing Wall
B607	11	25'-10"	Abutment/Part of Set F					B557	4	7'-7"	V				6'-8"	0'-11"			0'-5"				US Wing Wall
B608	1	13'-5"	Abutment/Part of Set G					B558	4	4'-4 ³ / ₄ "	L	3'-6 ¹ / ₄ "	0'-10 ¹ / ₂ "									US Wing Wall	
B609	1	12'-2"	Abutment/Part of Set G					B559	1	17'-10 ¹ / ₂ "	U	7'-5"	3'-0 ¹ / ₂ "	7'-5"									US Wing Wall
B610	1	8'-1"	Abutment/Part of Set H					B560	1	14'-0"	U	5'-5 ³ / ₄ "	3'-0 ¹ / ₂ "	5'-5 ³ / ₄ "									US Wing Wall
B611	4	27'-0 ³ / ₄ "	Abutment/Part of Set I					B561	1	10'-4"	U	3'-7 ³ / ₄ "	3'-0 ¹ / ₂ "	3'-7 ³ / ₄ "									US Wing Wall
MARK	QTY.	LENGTH	LOCATION					B562	32	3'-6"	L	1'-9"	1'-9"										BRIDGE SE



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2783601		BRIDGE NO. 0509		WIN 27836.01		BRIDGE PLANS	
FISH BRIDGE PATTEE POND BROOK KENNEBEC COUNTY		WINSLOW		SHEET NUMBER		34		OF 35	
DESIGN-DETAILED		BY		DATE		SIGNATURE		P.E. NUMBER	
CHECKED-REVIEWED		B. NICHOLS		9/15/22					
DESIGN-DETAILED		E. BREWER		9/15/22					
DESIGN-DETAILED									
REVISIONS 1									
REVISIONS 2									
REVISIONS 3									
REVISIONS 4									
FIELD CHANGES									

