

Date:9/25/2025

Username:

Division: BRDGE

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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 Maine Modified for Strength I

TRAFFIC DATA

Current (2023) AADT16360(2023)
Future (2043) AADT18000(2043)
DHV - % of AADT11%
Design Hour Volume1980
Heavy Trucks (% of AADT)5%
Heavy Trucks (% of DHV)3%
Directional Distribution (% of DHV)51%
18 kip Equivalent P 2.0362
18 kip Equivalent P 2.5346
Design Speed (mph)25

HYDROLOGIC DATA

Drainage Area326 sq mi
Design Discharge (Q50)43,050 cfs
Check Discharge (Q100)52,540 cfs
Headwater Elevation (Q1.1)93.7 ft
Headwater Elevation (Q25)98.4-98.3 ft
Headwater Elevation (Q50)99.0-98.8 ft
Headwater Elevation (Q100)100.2-100.1 ft
Discharge Velocity (Q1.1)5.8-6.1 fps
Discharge Velocity (Q50)14.1-14.2 fps
Discharge Velocity (Q100)16.3-15.9 fps

MATERIALS

Concrete:
DeckClass "A1" A
Curb, Sidewalk & Permanent Conc. Barrier...Class "A" (Internally Cured)
All Other ConcreteClass "A"

Reinforcing:
Low-Carbon ChromiumASTM A1035, Type CS, Grade 100
Glass Fiber Reinforced Polymer (GFRP)ASTM D7957

BASIC DESIGN STRESSES

Concrete:
Class "A1"f 'c = 4,000 psi
Class "A"f 'c = 4,000 psi

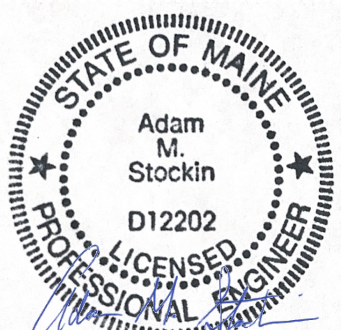
Reinforcing:
Low-Carbon Chromium Steelf y = 100,000 psi
Glass Fiber Reinforced Polymer (GFRP)
Minimum Tensile Strengthf fu = 100,000 psi
Minimum Elastic ModulusE f = 8,700,000 psi
Minimum Nominal Design Tensile Straine fu = 1.1%

OLD TOWN
PENOBSCOT COUNTY
LLEWELLYN ESTES BRIDGES
OVER
STILLWATER RIVER
STILLWATER AVENUE
FED. PROJ. NO. 2189401
PROJECT LENGTH 0.223 mi.
BRIDGE NO. 1472 & 2806

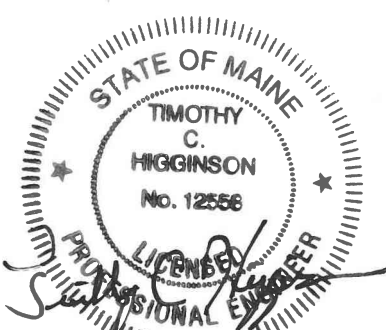
ERP #7



Sheets: D45, D47-D50,
D55 & D57-D60



Sheets: D1-D3, D39-D44,
D46-D48, D51-D54,
D56-D58, D61-D71, & D77



Sheets: D2-D38



Sheets: D72-D76

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UTILITIES

Emera Maine
Fairpoint Communications
Old Town Water and Sewer District
Spectrum
Maine Fiber
First Light

MAINTENANCE OF TRAFFIC

Temporary two-lane bridge with a minimum curb to curb width of 26'-0" on the upstream side of the proposed bridges, with separated 5'-0" sidewalk on the upstream side of the temporary bridge.

PROJECT LOCATION	Along Stillwater Avenue starting 0.18 miles north of Bennoch Road, ending 0.11 miles south of College Avenue. Bridges are located 0.69 miles northeast of I-95 Exit 193N Bridge No. 1: Latitude 44°54'41.50" N 68°41'5.70" W Bridge No. 2: Latitude 44°54'45" N 68°41'4.0" W
OUTLINE OF WORK	Construction of the upper abutment stems, concrete deck, pier diaphragms, concrete sidewalks and barriers, moment slabs, pedestrian overlook, and other associated roadway approach work.

WIN 022511.02 022512.02

OLD TOWN
STILLWATER AVENUE

SHEET NUMBER

D1

OF D77

STATE OF MAINE	DEPARTMENT OF TRANSPORTATION	DATE	
	APPROVED	COMMISSIONER:	CHIEF ENGINEER:

PROJECT INFORMATION	BRIDGE	SIGNATURE	P.E. NUMBER	DATE
PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT
		GERALD DOSTE	ADAM STOCKIN	WSP USA
				CONTRACTOR
				PROJECT COMPLETION DATE

TITLE SHEET

ESTIMATED QUANTITIES							
ITEM NO.	DESCRIPTION	UNIT	BRIDGE NO. 1	BRIDGE NO. 2	OLD TOWN WATER DISTRICT	OLD TOWN POLLUTION CONTROL (SEWER)	TOTAL
202.11	Removing Portland Cement Concrete Pavement	SY	372	742			1114
202.15	Remove MH or CB	EA	2	1			3
202.202	Removing Existing Pavement Surface	SY	730	1750			2480
203.20	Common Excavation	CY	900	1700			2600
203.25	Granular Borrow - ERP*7	CY	270	270			540
203.26	Gravel Borrow	CY	100	180			280
203.35	Crushed Stone 3/4 - Inch	CY	5	98			103
206.082	Structural Earth Excavation - Major Structures, Plan Quantity - ERP*7	CY	50	210			260
206.092	Structural Rock Excavation - Major Structures - ERP*7	CY		10			10
304.10	Aggregate Subbase Course - Gravel	CY	1110	1630			2740
403.2081	12.5 MM Polymer Modified HMA	T	200	400			600
403.209	Hot Mix Asphalt 9.5 MM (Incidentals)	T	75	67			142
403.211	Hot Mix Asphalt (Shim)	T	21	84			105
403.213	Hot Mix Asphalt, 12.5 MM Base	T	350	580			930
409.15	Bituminous Tack Coat, Applied	G	110	210			320
502.219	Structural Concrete, Abutments and Ret. Walls - ERP*7 (Bridge 1: 41 CY)	LS	1				1
502.219	Structural Concrete, Abutments and Ret. Walls - ERP*7 (Bridge 2: 98 CY)	LS		1			1
502.262	Structural Concrete Roadway and Sidewalk Slab on Composite Bridges (Bridge 1: 329 CY)	LS	1				1
502.262	Structural Concrete Roadway and Sidewalk Slab on Composite Bridges (Bridge 2: 533 CY)	LS		1			1
502.31	Structural Concrete Approach Slab (Bridge 1: 96 CY)	LS	1				1
502.31	Structural Concrete Approach Slab (Bridge 2: 96 CY)	LS		1			1
502.49	Structural Concrete Curbs and Sidewalks (Bridge 1: 60 CY)	LS	1				1
502.49	Structural Concrete Curbs and Sidewalks (Bridge 2: 102 CY)	LS		1			1
502.565	Concrete Fill	CY		17			17
502.77	FRP Bridge Drain - Type F	EA	4	6			10
503.171	Mechanical Coupler (Bridge 1: 86 EA)	LS	1				1
503.171	Mechanical Coupler (Bridge 2: 280 EA)	LS		1			1
503.19	Low-Carbon, Chromium Reinforcement, Fabricated and Delivered - ERP*7	LB	76260	143380			219640
503.20	Low-Carbon, Chromium Reinforcement, Placing - ERP*7	LB	76260	143380			219640
508.14	High Performance Waterproofing Membrane (Bridge 1: 740 SY)	LS	1				1
508.14	High Performance Waterproofing Membrane (Bridge 2: 1260 SY)	LS		1			1
509.744	Composite Tub Girder, Erection (Bridge 1)	LS	1				1
509.744	Composite Tub Girder, Erection (Bridge 2)	LS		1			1
510.43	Special Detour - Temporary Trestle and Approach Removal	LS	1				1
511.07	Cofferdam; Bridge 1, Abutment 1	LS	1				1
511.07	Cofferdam; Bridge 1, Abutment 2	LS	1				1
511.07	Cofferdam; Bridge 2, Abutment 1	LS		1			1
515.21	Protective Coating for Concrete Surfaces (Bridge 1: 870 SY)	LS	1				1
515.21	Protective Coating for Concrete Surfaces (Bridge 2: 1470 SY)	LS		1			1
519.60	Expansion Device - Asphaltic Plug Joint	LF	68	68			136
520.233	Expansion Device - Silicone Coated Precompressed Foam	LF	8	8			16
523.52	Bearing Installation	EA	10	20			30
526.341	Permanent Concrete Barrier, Special - Bridge 1	LS	1				1
526.341	Permanent Concrete Barrier, Special - Bridge 2	LS		1			1
530.32	GFRP, Reinforcement Bars, Fabricated & Delivered (Bridge 1: 54210 LF)	LS	1				1
530.32	GFRP, Reinforcement Bars, Fabricated & Delivered (Bridge 2: 102710 LF)	LS		1			1
530.33	GFRP, Reinforcement Bars, Placing (Bridge 1: 54210 LF)	LS	1				1
530.33	GFRP, Reinforcement Bars, Placing (Bridge 2: 102710 LF)	LS		1			1
603.175	18" RCP Class III	LF	70	30			100
603.179	18" Culvert Pipe Opt III	LF	120	32			152
604.072	Catch Basin Type A1-C	EA	1	1			2
604.161	Altering Catch Basin	EA		1			1
604.252	Catch Basin Type A5-C	EA	1				1
604.262	Catch Basin Type B5-C	EA	3	1			4
605.09	6" Underdrain Type B	LF	220				220
605.11	12" Underdrain Type C	LF		280			280
605.13	18" Underdrain Type C	LF	110				110
606.1301	3" W-Beam Guardrail - Midway Splice (Steel Post, 8" Off-Block, Single Faced)	LF	100	10			110
606.1303	3" W-Beam Guardrail - Midway Splice - 15' Radius and Less	LF	50	30			80
606.1307	Bridge Transition (Asymmetrical) - Type 1A - Modified	EA	2	2			4
606.265	Terminal End - Single Rail - Galvanized Steel	EA	2	1			3
606.66	Terminal End Thrie Beam	EA		1			1
606.353	Reflectorized Flexible Guardrail Marker	EA	4	4			8
606.47	Single Wood Post	EA		1			1
606.51	Multiple Mailbox Support	EA		1			1
607.17	Chain Link Fence - 6 Foot	LF		40			40
607.243	Remove Chain Link Fence	LF		50			50
608.08	Reinforced Concrete Sidewalk	SY	33	89			122
608.26	Curb Ramp Detectable Warning Field	SF		20			20
609.11	Vertical Curb Type 1	LF	250	280			530
609.12	Vertical Curb Type 1 - Circular	LF	20				20
609.19	Concrete Vertical Curb - Type 2	LF	50	55			105
609.221	Terminal Curb Type 1	LF	90	140			230
610.08	Plain Riprap	CY	160				160
610.16	Heavy Riprap - ERP*7	CY	1350	1340			2690
615.07	Loam	CY	30	62			92
618.13	Seeding Method Number 1	UN	3	5			8
619.12	Mulch	UN	3	5			8
619.14	Erosion Control Mix	CY	30	62			92
620.58	Erosion Control Geotextile - ERP*7	SY	1171	1001			2172
620.66	Drainage Geocomposite - ERP*7	SY	70	70			140
626.11	Precast Concrete Junction Box	EA	1	1			2

ESTIMATED QUANTITIES							
ITEM NO.	DESCRIPTION	UNIT	BRIDGE NO. 1	BRIDGE NO. 2	OLD TOWN WATER DISTRICT	OLD TOWN POLLUTION CONTROL (SEWER)	TOTAL
626.22	Non-metallic Conduit	LF	340	600			940
626.221	Non-metallic Conduit, Concrete Encased	LF		20			20
626.251	Non-metallic Under Pavement Conduit	LF		191			191
626.35	Controller Cabinet Foundation	EA		2			2
626.421	24-inch Diameter Foundation	LF		6			6
627.733	4" White or Yellow Painted Pavement Marking Line	LF	1520	3610			5130
627.75	White Pavement and Curb Marking	SF	34	245			279
627.77	Remove Existing Pavement Marking	SF		119			119
629.05	Hand Labor, Straight Time	HR	20	20			40
631.12	All Purpose Excavator (Including Operator)	HR	20	20			40
631.172	Truck - Large (Including Operator)	HR	20	20			40
634.160	Highway Lighting - Bridge 1	LS	1				1
634.160	Highway Lighting - Bridge 2	LS		1			1
634.206	Light Standard for Post Top Luminaire	EA		1			1
634.2065	Light Standard with Banner Arms	EA	4	5			9
639.18	Field Office Type A	EA	0.5	0.5			1
642.15	Precast Concrete Steps	EA	1				1
643.631	Rectangular Rapid Flashing Beacon - Remove and Reset	LS		1			1
643.71	Traffic Signal Modification	LS		1			1
645.106	Demount Regulatory, Warning, Confirmation, Rte Assembly Signs	EA		5			5
645.116	Reinstall Regulatory, Warning, Confirmation and Route Marker Assembly Sign	EA	2	7			9
645.271	Regulatory, Warning, Confirmation and Route Marker Assembly Sign	SF		38			38
652.33	Drum	EA	50	50			100
652.34	Cone	EA	50	50			100
652.35	Construction Signs	SF	200	200			400
652.36	Maintenance of Traffic Control Devices	CD	50	50			100
652.38	Flagger	HR	500	500	100		1100
652.381	Traffic Officer	HR	20	20			40
652.41	Portable Changeable Message Sign	EA	1	1			2
656.75	Temporary Soil Erosion and Water Pollution Control (Bridge 1)	LS	1				1
656.75	Temporary Soil Erosion and Water Pollution Control (Bridge 2)	LS		1			1
659.10	Mobilization (Bridge 1)	LS	1				1
659.10	Mobilization (Bridge 2)	LS		1			1
801.03	Test Pits	EA	2	2	3		7
822.37	16-Inch Ductile Iron Pipe (in Roadway)	LF			238		238
824.32	Reset Hydrant	EA			1		1
827.304	Trench Rock Excavation	CY			20		20
827.321	Abandon Existing Water Mains	LS			1		1
827.331	Board Trench Insulation	SY			120		120
830.10	16-Inch Water Main Bridge Crossing	LS			1		1
830.133	Sewer Main Bridge Crossing Install Only	LS				1	1

SHEET NUMBER D2 OF D77		LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY ESTIMATED QUANTITIES		PROJ. MANAGER	GERALD DOSTIE	BY	DATE
				DESIGN-DETAILED	A. ORTIZ	T. POLSON	9/2025
				CHECKED-REVIEWED	E. CARON	E. CARON	9/2025
				DESIGN2-DETAILED02			
				DESIGN3-DETAILED03			
		REVISIONS 1	Item	Number	Update	10/2025	
		REVISIONS 2					
		REVISIONS 3					
		REVISIONS 4					
		FIELD CHANGES					
STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2251(200) & STP-2251(100)		SIGNATURE					
BRIDGE NO. 1472 BRIDGE NO. 2806		P.E. NUMBER					
BRIDGE PLANS		DATE					
WIN 022512.02 WIN 022511.02							

GENERAL CONSTRUCTION NOTES

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

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

3. 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.

4. All embankment material, except as otherwise shown, placed below EL 100.2 (using Q100) shall be Granular Borrow meeting the requirements of Standard Specifications Subsection 703.19, Granular Borrow, for Material for Underwater Backfill.

5. Place loam 4 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

6. 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.

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

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

9. 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.

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

All exposed surfaces of concrete curbs and sidewalks, Fascias down to the drip notch, All exposed surfaces of Concrete Barriers, Top of abutment backwalls and wingwalls, and To one foot below the ground on vertical walls against earth.

11. 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.

12. Unless otherwise noted, pay limits for WIN 022512.01 shall end at Sta. 25+00 and pay limits for WIN 022511.01 shall start at Sta. 25+00.

BRIDGE MONITORING NOTES

1. Portions of Bridge No. 2 will be instrumented by the University of Maine for data collection and bridge performance monitoring.
2. The Contractor, in coordination with the University, shall install conduit through Bridge No. 2, Abutment 2 and route it to the proposed load center as directed by the Resident or University Personnel. Payment for installation of conduit and load center shall be made under the appropriate Contract Pay Items.

DRAINAGE CONSTRUCTION NOTES

1. All stations and offsets provided are to the center of the structure and do not always reflect the center of the grate or cover.
2. Top of grate elevations in pavement are set 1.5" below normal elevation at centerline of grate for Type A catch basins and 0.5" for Type B catch basins.

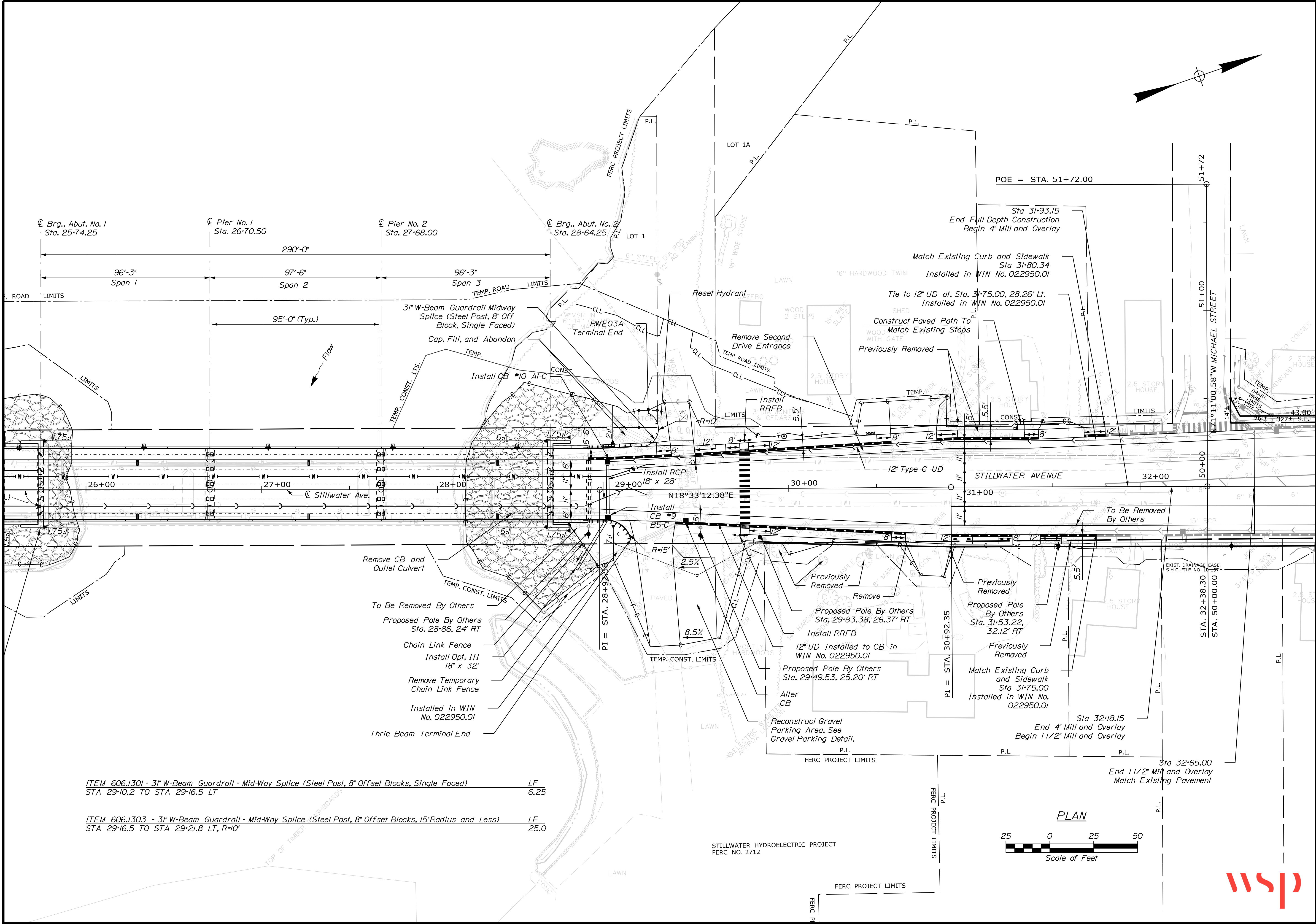


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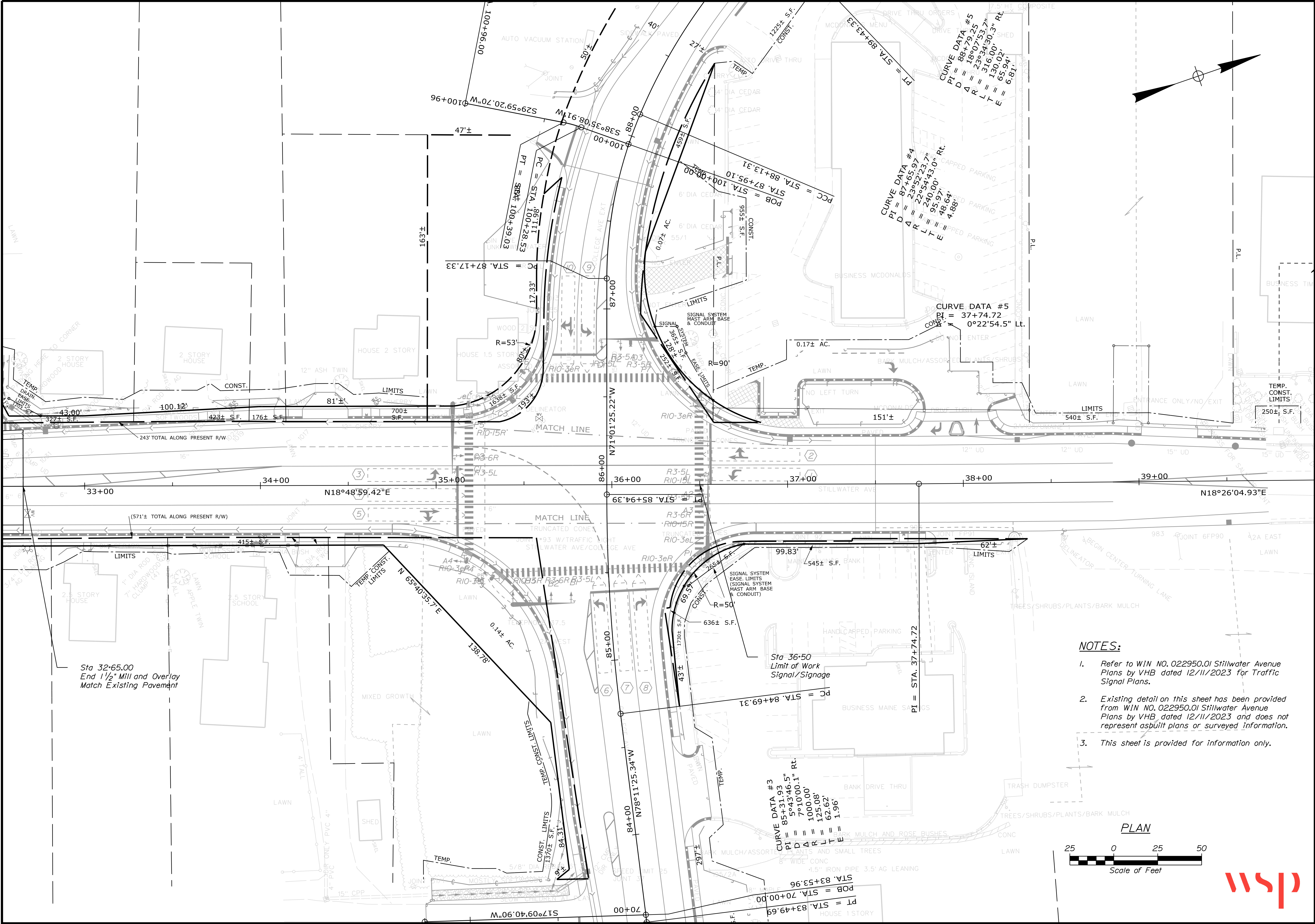
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Division: BRIDGE

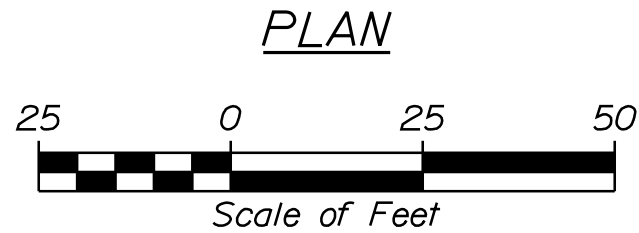
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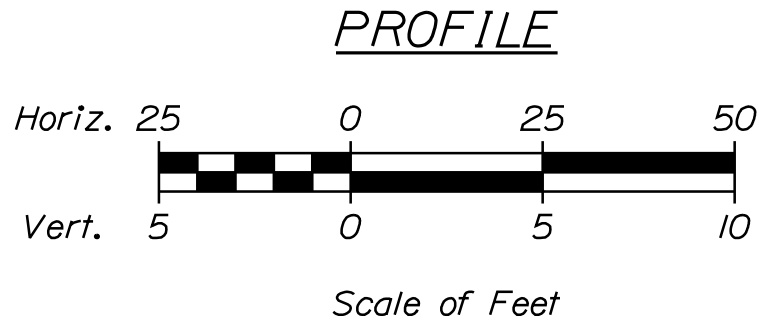
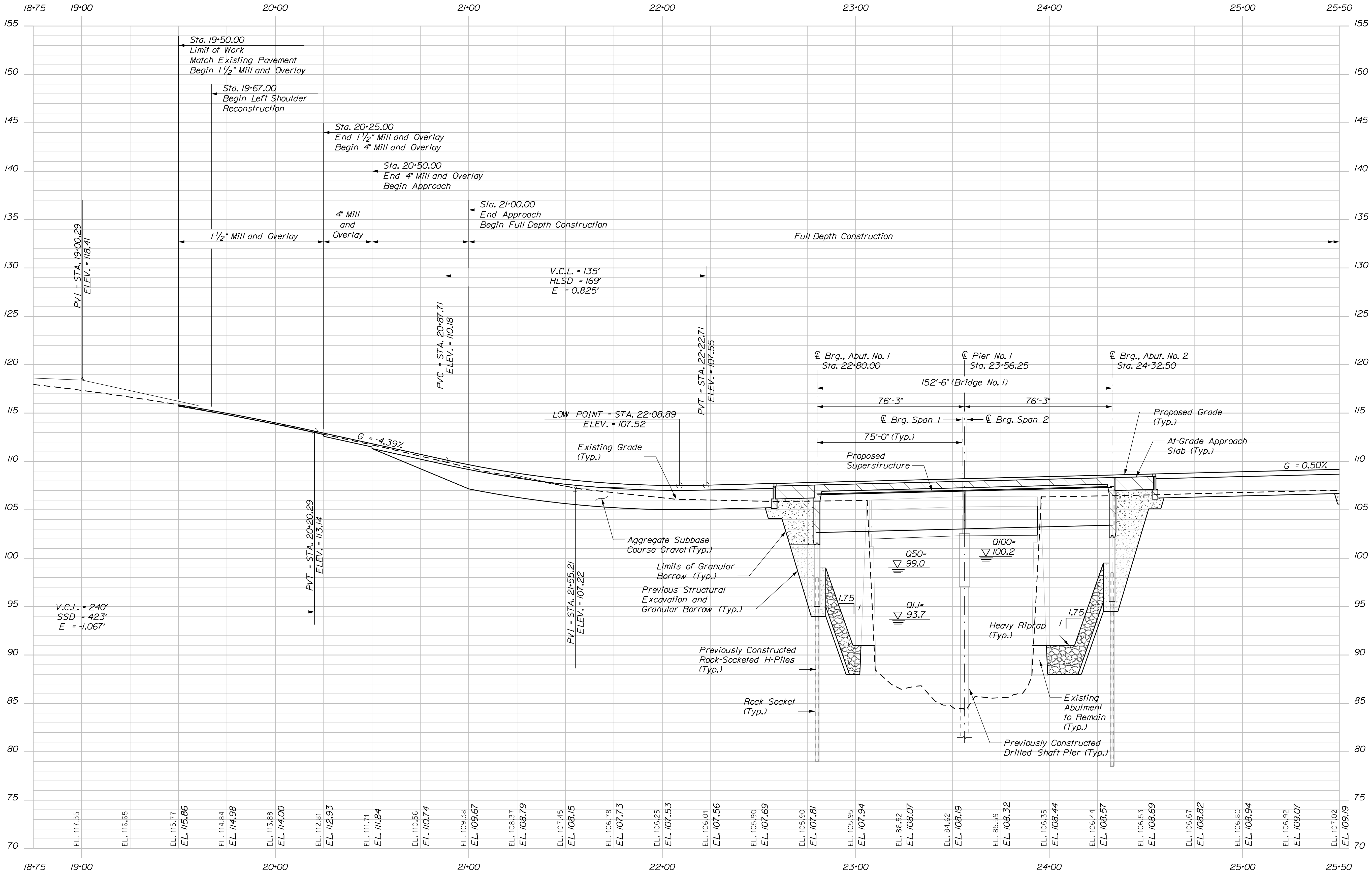
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806	
WIN 022512.02 WIN 022511.02		BRIDGE PLANS	
LLEWELLYN ESTES BRIDGES STILLWATER RIVER PENOBSCOT COUNTY OLD TOWN		GENERAL PLAN	
SHEET NUMBER		D5	
OF D77			
PROJ. MANAGER	GERALD DOSTIE	BY	C. CARNEY
CHECKED	REVIEWED	DATE	9/2025
DESIGN	DETAILS	DATE	9/2025
REVISIONS	1	DATE	
REVISIONS	2	DATE	
REVISIONS	3	DATE	
REVISIONS	4	DATE	
FIELD CHANGES			



- NOTES:**
- Refer to WIN NO. 022950.01 Stillwater Avenue Plans by VHB dated 12/11/2023 for Traffic Signal Plans.
 - Existing detail on this sheet has been provided from WIN NO. 022950.01 Stillwater Avenue Plans by VHB dated 12/11/2023 and does not represent as built plans or surveyed information.
 - This sheet is provided for information only.



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806	
BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02	
BRIDGE PLANS			
LLEWELLYN ESTES BRIDGES		PENOBSCOT COUNTY	
STILLWATER RIVER		GENERAL PLAN	
OLD TOWN		SHEET NUMBER	
		D6	
		OF D77	
PROJ. MANAGER	GERALD DOSTIE	BY	DATE
CHECKED	REVIEWED	C. CARNEY	9/20/25
DESIGNED	DETAILED	L. SPINELLI	9/20/25
DESIGNED	DETAILED	T. HIGGINS	9/20/25
REVISIONS	1	SIGNATURE	
REVISIONS	2	P.E. NUMBER	
REVISIONS	3	DATE	
REVISIONS	4		
FIELD CHANGES			



Note:
Riprap to be installed in front of the proposed abutments, within the footprint of the proposed superstructure, was included for installation as part of ERP#6.



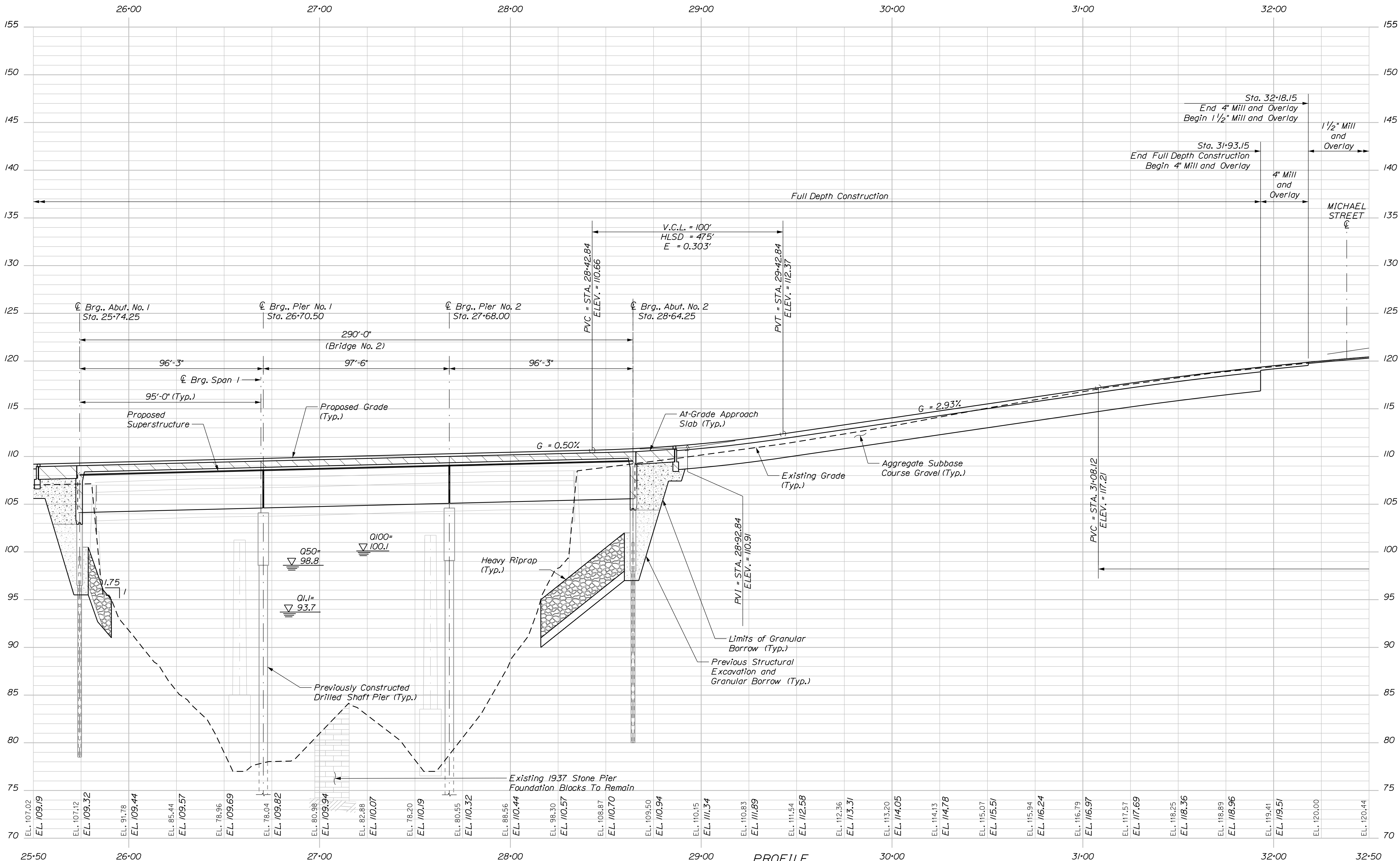
STATE OF MAINE		DATE	
DEPARTMENT OF TRANSPORTATION		BY	DATE
STP-2251(200) & STP-2251(100)		C. CARNEY	9/2025
BRIDGE NO. 1472		J. KHERRA	9/2025
BRIDGE NO. 2806		L. SPINISCOLI	9/2025
WIN 022512.02		SIGNATURE	
WIN 022511.02		P.E. NUMBER	
		DATE	
LLEWELLYN ESTES BRIDGES		PROJ. MANAGER	
STILLWATER RIVER		GERALD DOSTIE	
PENOBSCOT COUNTY		DESIGN-DETAILED	
OLD TOWN		CHECKED-REVIEWED	
PROFILE		DESIGN-DETAILED	
		DESIGN-DETAILED	
		REVISIONS 1	
		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	
SHEET NUMBER			
D7			
OF D77			

Date: 9/30/2025

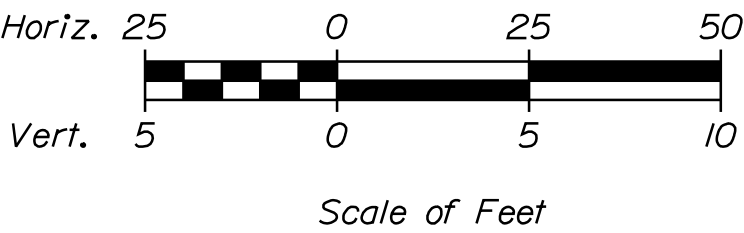
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Division: BRIDGE

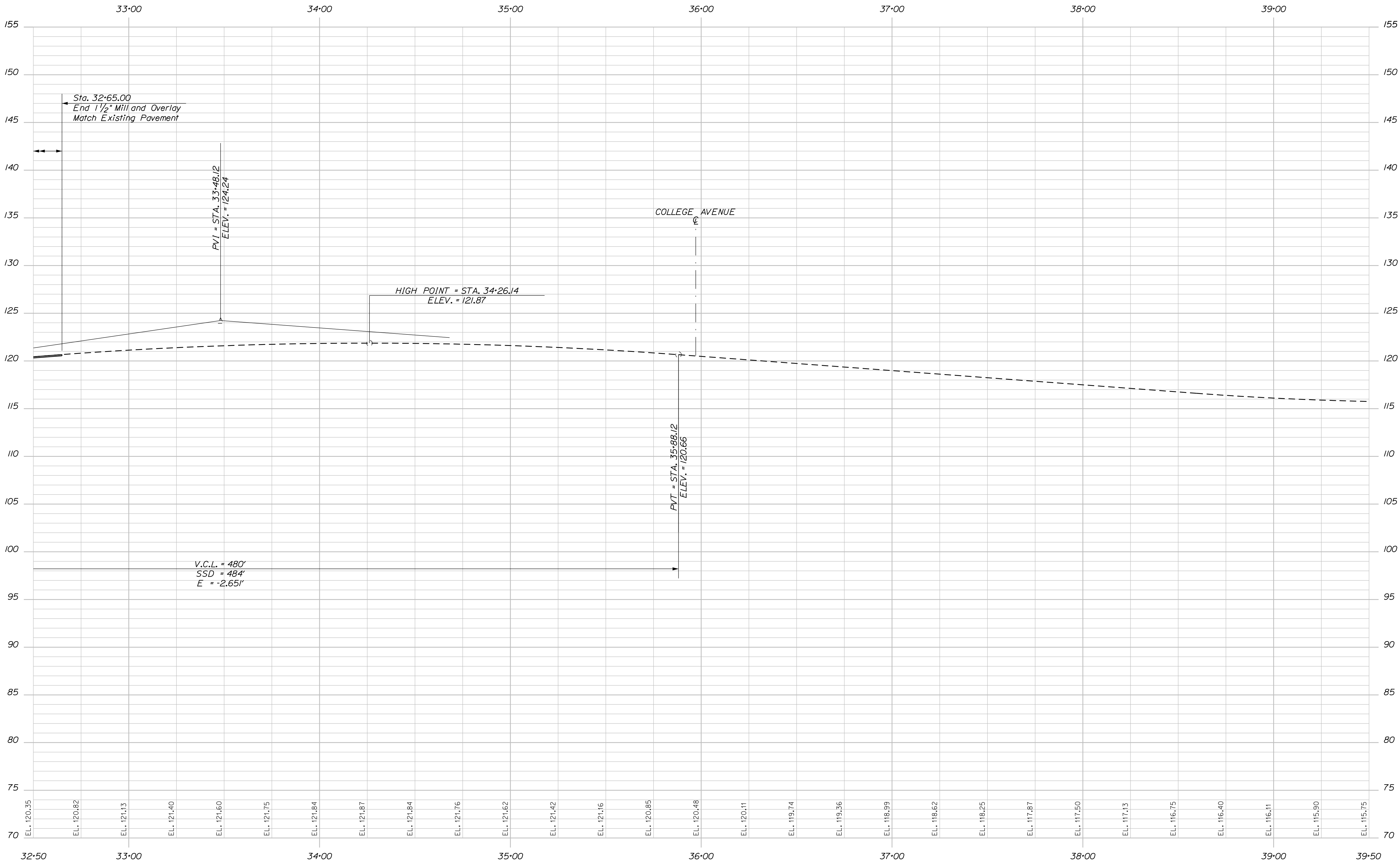
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Note:
Riprap to be installed in front of the proposed abutments, within the footprint of the proposed superstructure, was included for installation as part of ERP#6.



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02		BRIDGE PLANS	
LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN		PENOBSCOT COUNTY		PROFILE		SHEET NUMBER		D8 OF D77	
PROJ. MANAGER	GERALD DOSTIE	BY	C. CARNEY	DATE	9/2025	SIGNATURE	P.E. NUMBER	DATE	
CHECKED	REVIEWED	DESIGNED	DETAILS	REVISIONS	1	REVISIONS	2	REVISIONS	3
DESIGNED	DETAILS	REVISIONS	4	FIELD CHANGES					



PROFILE BRIDGE 3



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806

WIN 022512.02
WIN 022511.02

BRIDGE PLANS

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN

PROFILE

SHEET NUMBER

D9

OF D77

PROJ. MANAGER	GERALD DOSTIE	BY	C. CARNEY	DATE	9/2025
DESIGNED-DETAILED	J. KHERRA	CHECKED-REVIEWED	L. STINESCO	SIGNATURE	
DESIGNS-DETAILED		DESIGNS-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 1		DATE	
REVISIONS 2		REVISIONS 2			
REVISIONS 3		REVISIONS 3			
REVISIONS 4		REVISIONS 4			
FIELD CHANGES					

Date:9/30/2025

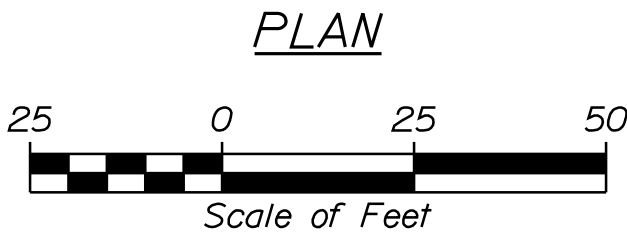
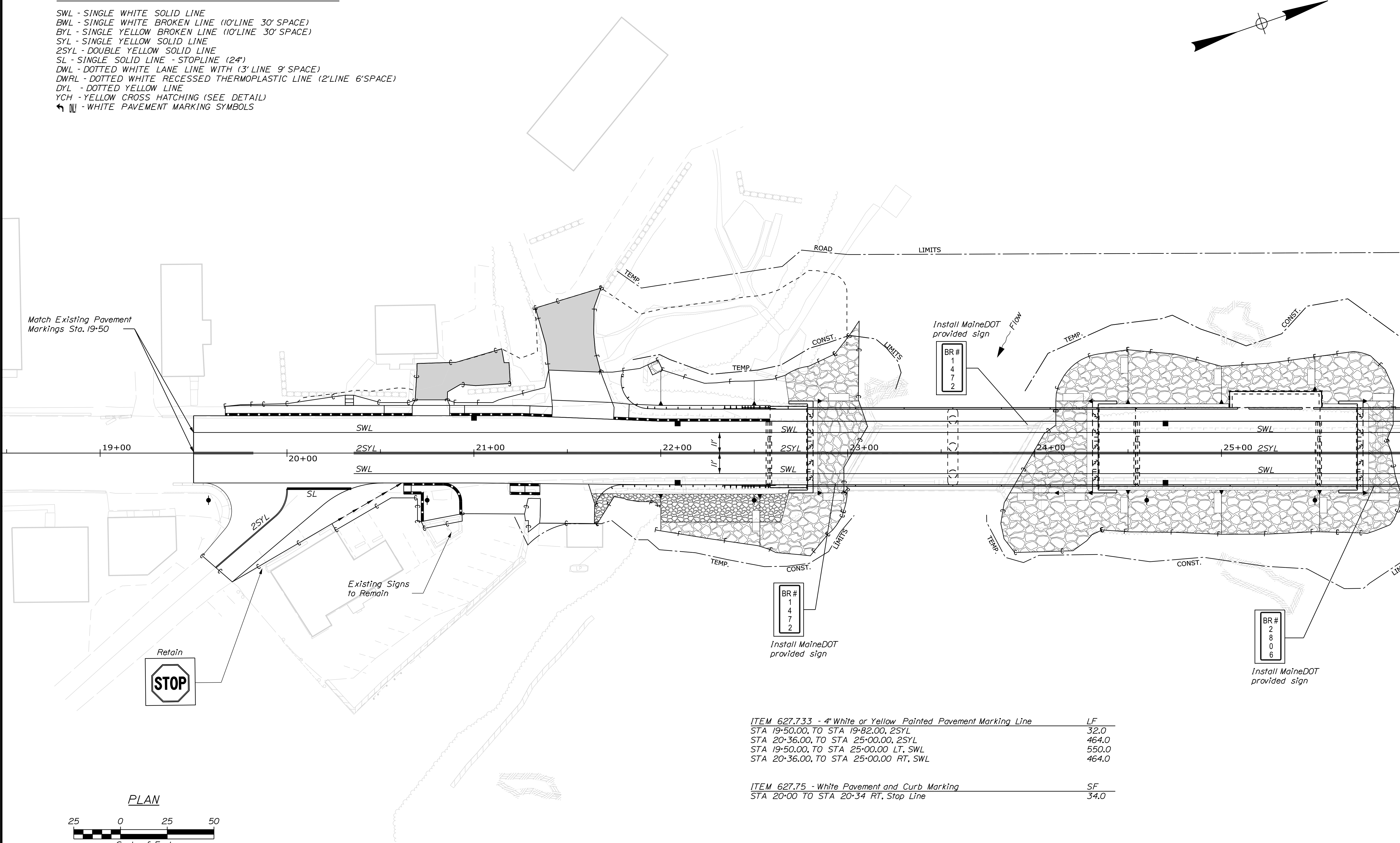
Username:

Division: BRIDGE

Filename: ... \D10_Signing & Striping Plan_01.dgn

SIGNING AND PAVEMENT MARKING LEGEND

SWL - SINGLE WHITE SOLID LINE
BWL - SINGLE WHITE BROKEN LINE (10'LINE 30' SPACE)
BYL - SINGLE YELLOW BROKEN LINE (10'LINE 30' SPACE)
SYL - SINGLE YELLOW SOLID LINE
2SYL - DOUBLE YELLOW SOLID LINE
SL - SINGLE SOLID LINE - STOPLINE (24")
DWL - DOTTED WHITE LANE LINE WITH (3' LINE 9' SPACE)
DWRL - DOTTED WHITE RECESSED THERMOPLASTIC LINE (2'LINE 6'SPACE)
DYL - DOTTED YELLOW LINE
YCH - YELLOW CROSS HATCHING (SEE DETAIL)
WHITE PAVEMENT MARKING SYMBOLS



ITEM 627.733 - 4" White or Yellow Painted Pavement Marking Line	LF
STA 19+50.00, TO STA 19+82.00, 2SYL	32.0
STA 20+36.00, TO STA 25+00.00, 2SYL	464.0
STA 19+50.00, TO STA 25+00.00 LT, SWL	550.0
STA 20+36.00, TO STA 25+00.00 RT, SWL	464.0
ITEM 627.75 - White Pavement and Curb Marking	SF
STA 20+00 TO STA 20+34 RT, Stop Line	34.0



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806

WIN 022512.02
WIN 022511.02

BRIDGE PLANS

PROJ. MANAGER	GERALD DOSTIE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	J. KHERRA	C. CARNEY	9/2025			
CHECKED-REVIEWED	L. SPINISCOLI	T. HIGGINS	9/2025			
DESIGN-DETAILED						
DESIGN-DETAILED						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN

SIGNING & STRIPING PLAN

SHEET NUMBER
D10
OF D77

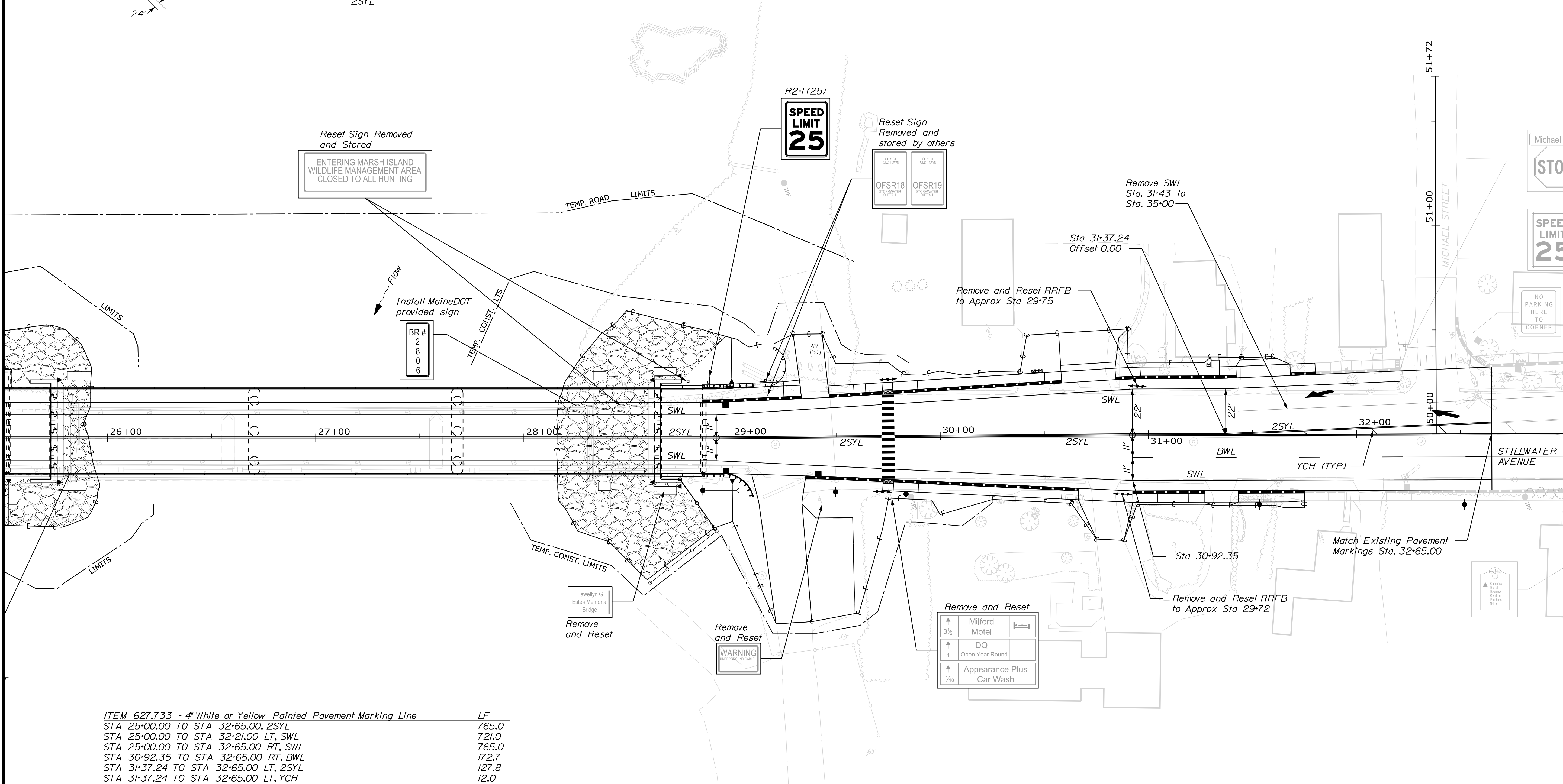
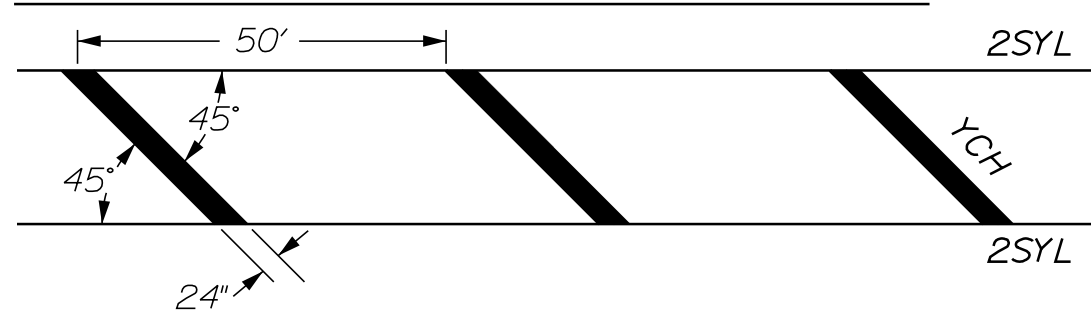
Date:9/30/2025

Username:

Division: BRIDGE

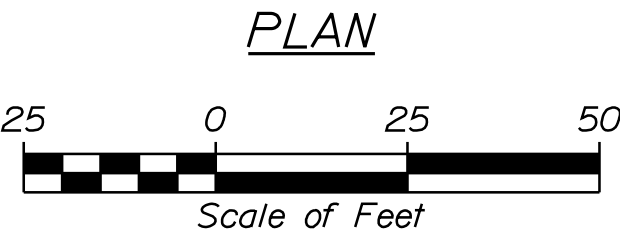
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YELLOW CROSS HATCHING DETAIL



ITEM 627.733 - 4" White or Yellow Painted Pavement Marking Line	LF
STA 25+00.00 TO STA 32+65.00, 2SYL	765.0
STA 25+00.00 TO STA 32+21.00 LT, SWL	721.0
STA 25+00.00 TO STA 32+65.00 RT, SWL	765.0
STA 30+92.35 TO STA 32+65.00 RT, BWL	172.7
STA 31+37.24 TO STA 32+65.00 LT, 2SYL	127.8
STA 31+37.24 TO STA 32+65.00 LT, YCH	12.0

ITEM 627.75 - White Pavement and Curb Marking	SF
STA 29+75, Crosswalk	84.0
STA 31+75 LT, Merge Arrow	13.0
STA 32+45 LT, Merge Arrow	13.0



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806
WIN 022512.02
WIN 022511.02
BRIDGE PLANS

PROJ. MANAGER
GERALD DOSTIE

CHECKED
REVIEWED
DESIGNED
DETAILS

DATE
9/2025
9/2025
9/2025
9/2025

BY
C. CARNEY
J. KHERRA
L. SPINELLI
T. HIGGINS

SIGNATURE

P.E. NUMBER

DATE

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN

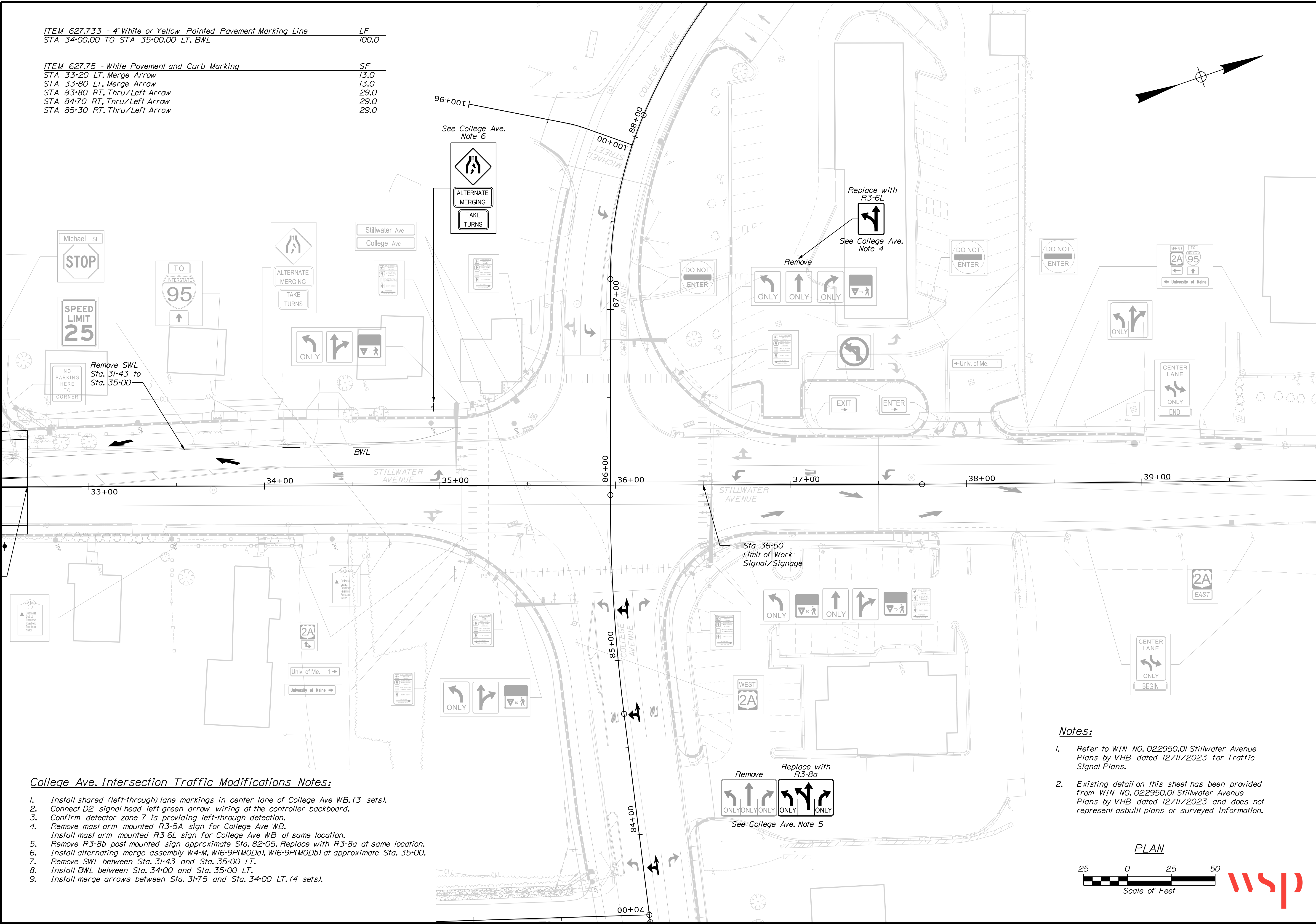
SIGNING & STRIPING PLAN

SHEET NUMBER

D11

OF D77

ITEM 627.733 - 4" White or Yellow Painted Pavement Marking Line	LF
STA 34+00.00 TO STA 35+00.00 LT, BWL	100.0
ITEM 627.75 - White Pavement and Curb Marking	SF
STA 33+20 LT, Merge Arrow	13.0
STA 33+80 LT, Merge Arrow	13.0
STA 83+80 RT, Thru/Left Arrow	29.0
STA 84+70 RT, Thru/Left Arrow	29.0
STA 85+30 RT, Thru/Left Arrow	29.0

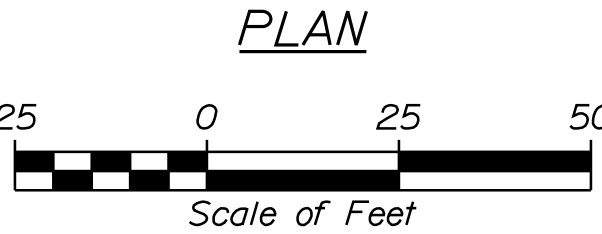


College Ave. Intersection Traffic Modifications Notes:

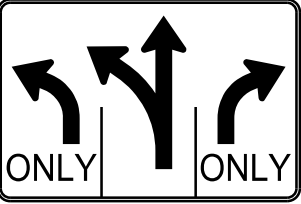
1. Install shared (left-through) lane markings in center lane of College Ave WB. (3 sets).
2. Connect D2 signal head left green arrow wiring at the contraller backboard.
3. Confirm detector zone 7 is providing left-through detection.
4. Remove mast arm mounted R3-5A sign for College Ave WB.
Install mast arm mounted R3-6L sign for College Ave WB at same location.
5. Remove R3-8b post mounted sign approximate Sta. 82+05. Replace with R3-8a at same location.
6. Install alternating merge assembly W4-M, W16-9P(MODa), W16-9P(MODb) at approximate Sta. 35+00.
7. Remove SWL between Sta. 31+43 and Sta. 35+00 LT.
8. Install BWL between Sta. 34+00 and Sta. 35+00 LT.
9. Install merge arrows between Sta. 31+75 and Sta. 34+00 LT. (4 sets).

Notes:

1. Refer to WIN NO. 022950.01 Stillwater Avenue Plans by VHB dated 12/11/2023 for Traffic Signal Plans.
2. Existing detail on this sheet has been provided from WIN NO. 022950.01 Stillwater Avenue Plans by VHB dated 12/11/2023 and does not represent asbuilt plans or surveyed information.



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02		BRIDGE PLANS	
	SIGNING & STRIPING PLAN		SHEET NUMBER		D12		OF D77	
	LLEWELLYN ESTES BRIDGES STILLWATER RIVER PENOBSCOT COUNTY OLD TOWN		DATE		SIGNATURE		P.E. NUMBER	
PROJ. MANAGER		GERALD DOSTIE	BY	C. CARNEY	DATE	9/2025	REVISIONS	
DESIGN-DETAILED		J. KHERRA	CHECKED-REVIEWED	L. SPINELLI	T. HIGGINS	9/2025	DESIGN-DETAILED	
DESIGN-DETAILED			REVISIONS 1		REVISIONS 2		REVISIONS 3	
			REVISIONS 4		FIELD CHANGES			

	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		TOTAL AREA IN SQUARE FEET	POST
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE.MKR.		BACK-GROUND	LEGEND BORDER		
				TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"				COLORS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			
R2-1 (25)	24"	30"					1	WHITE	BLACK	5.00 (5.00)	U-Channel Post
R3-6L	30"	36"					1	WHITE	BLACK	7.50 (7.50)	MOUNT TO MAST ARM
R3-8a	42"	30"					1	WHITE	BLACK	8.75 (8.75)	MOUNT ON 4"x4" WOOD POST
W4-M	36"	36"					1	BLACK	YELLOW	9.00 (9.00)	MOUNT ON 6"x6" WOOD POST
W16-9P(MODa)	36"	18"		5C 5C	2.5 3.0 2.5		1	BLACK	YELLOW	4.50 (4.50)	MOUNT BELOW W4-M
W16-9P(MODb)	24"	18"		5C 5C	2.5 3.0 2.5		1	BLACK	YELLOW	3.00 (3.00)	MOUNT BELOW W16-9P(MODa)



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806

WIN 022512.02
WIN 022511.02

BRIDGE PLANS

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
OLD TOWN
PENOBSCOT COUNTY

SIGN SUMMARY

SHEET NUMBER
D13
OF D77

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

GERALD DOSTIE
J. KHERRA
L. STINESCOLT
T. HIGGINS

BY
C. CARNEY
T. HIGGINS

DATE
9/2025
9/2025

SIGNATURE

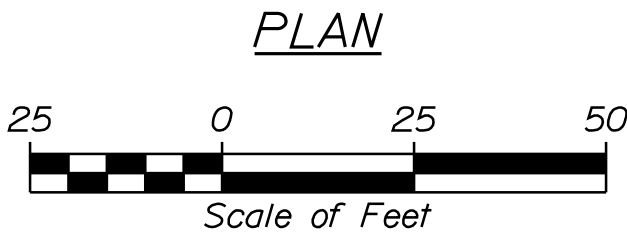
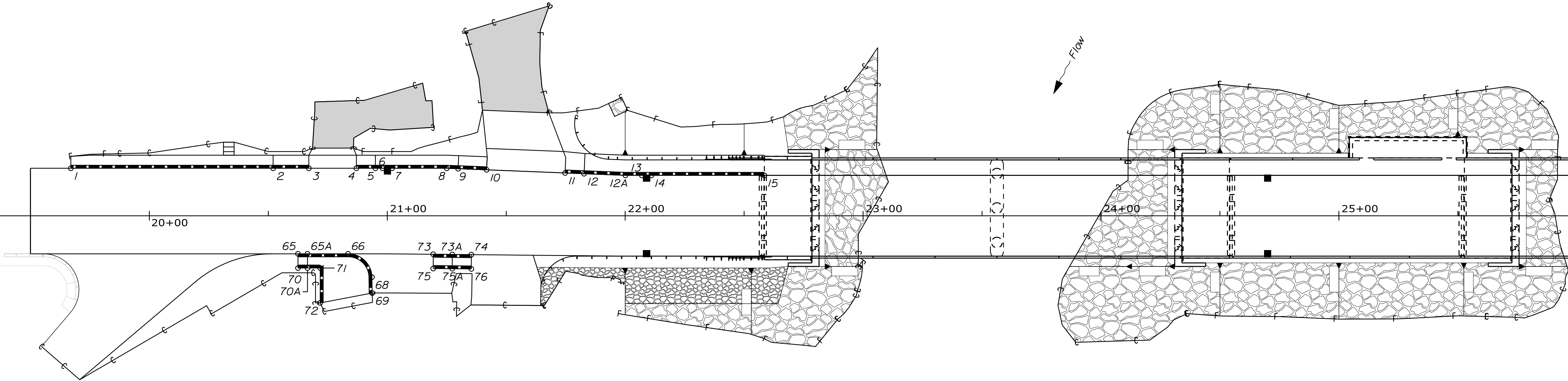
P.E. NUMBER

DATE

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CONTROL POINTS				
POINT	STATION	OFFSET	X COORD.	Y COORD.
1	19+67.00	20.00 LT	1754278.15	514507.75
2	20+52.00	20.00 LT	1754305.79	514588.13
3	20+67.00	20.00 LT	1754310.67	514602.31
4	20+87.00	20.00 LT	1754317.17	514621.23
5	20+95.00	20.00 LT	1754319.77	514628.79
6	20+98.00	20.00 LT	1754320.75	514631.63
7	21+02.00	20.00 LT	1754322.05	514635.41
8	21+25.00	20.00 LT	1754329.53	514657.16
9	21+29.76	19.81 LT	1754331.26	514661.60
10	21+41.76	19.33 LT	1754335.61	514672.79
11	21+74.72	18.01 LT	1754347.58	514703.54
12	21+82.72	17.69 LT	1754350.48	514710.99
12A	22+00.09	17.00 LT	1754356.78	514727.19
13	22+07.00	17.00 LT	1754359.03	514733.73
14	22+11.00	17.00 LT	1754360.33	514737.51
15	22+58.50	17.00 LT	1754375.78	514782.43

CONTROL POINTS				
POINT	STATION	OFFSET	X COORD.	Y COORD.
65	20+62.44	16.00 RT	1754343.23	514586.30
65A	20+66.44	16.00 RT	1754344.53	514590.08
66	20+83.55	16.00 RT	1754350.09	514606.25
68	20+93.55	25.83 RT	1754362.64	514612.51
69	20+93.66	32.51 RT	1754369.00	514610.45
70	20+62.45	22.00 RT	1754348.91	514584.36
70A	20+66.45	22.00 RT	1754350.21	514588.14
71	20+71.81	22.00 RT	1754351.95	514593.20
72	20+71.81	36.66 RT	1754365.81	514588.43
73	21+19.31	16.19 RT	1754361.90	514640.01
73A	21+27.31	16.27 RT	1754364.58	514647.55
74	21+35.31	16.35 RT	1754367.26	514655.09
75	21+19.31	22.19 RT	1754367.58	514638.06
75A	21+27.31	22.27 RT	1754370.26	514645.60
76	21+35.31	22.35 RT	1754372.93	514653.14



ITEM 609.11 - VERTICAL CURB TYPE 1		
PT. TO PT.	RADIUS	LENGTH
1 TO 2	-	85.0'
5 TO 6	-	3.0'
6 TO 7	-	4.0'
7 TO 8	-	23.0'
8 TO 9	-	4.7'
12 TO 12A	-	17.4'
12A TO 13	-	6.9'
13 TO 14	-	4.0'
14 TO 15	-	47.5'
65A TO 66	-	17.0'
68 TO 69	-	6.7'
70A TO 71	-	5.4'
71 TO 72	-	15.9'

ITEM 609.221 - TERMINAL CURB TYPE 1		
PT. TO PT.	RADIUS	LENGTH
2 TO 3	-	15.0'
4 TO 5	-	8.0'
9 TO 10	-	12.0'
11 TO 12	-	8.0'
65 TO 65A	-	4.0'
70 TO 70A	-	4.0'
73 TO 73A	-	8.0'
73A TO 74	-	8.0'
75 TO 75A	-	8.0'
75A TO 76	-	8.0'

ITEM 609.12 - VERTICAL CURB TYPE 1 - CIRCULAR		
PT. TO PT.	RADIUS	LENGTH
66 TO 68	10.0'	15.5'



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806
WIN 022512.02
WIN 022511.02
BRIDGE PLANS

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN

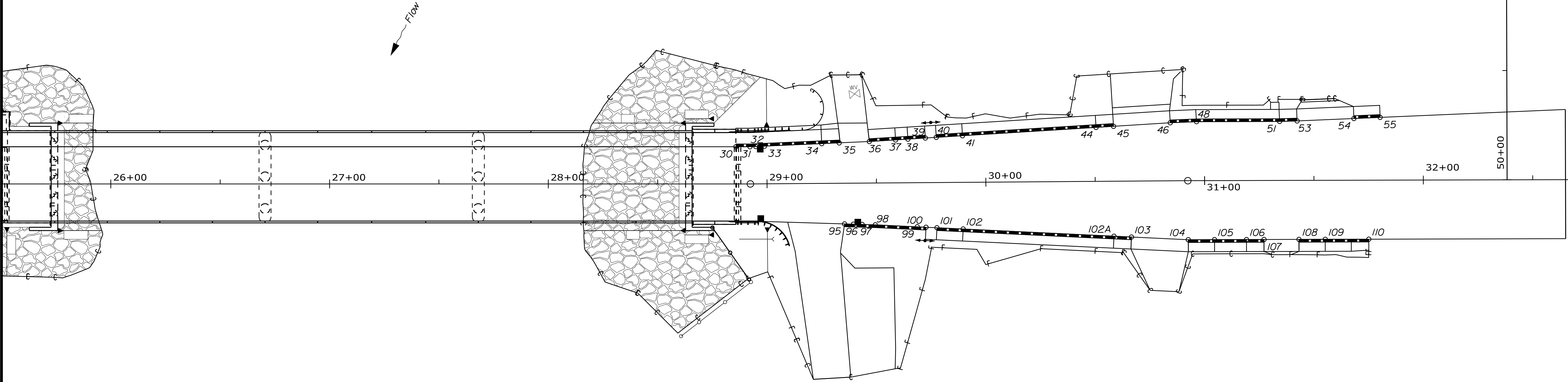
SHEET NUMBER
D15
OF D77

PROJ. MANAGER
GERALD DOSTIE
BY
J. KHERRA
C. CARNEY
T. HIGGINS
CHECKED
DESIGN-DETAILED
DESIGN-REVIEWED
DESIGN-DETAILED
DESIGN-REVIEWED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

DATE
9/2025
9/2025
SIGNATURE
P.E. NUMBER
DATE

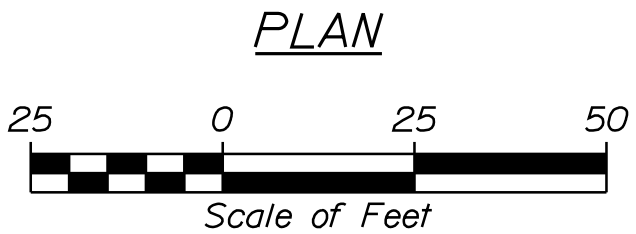
CONTROL POINTS				
POINT	STATION	OFFSET	X COORD.	Y COORD.
30	28+85.75	17.00 LT	1754579.74	515375.59
31	28+92.19	17.00 LT	1754581.84	515381.68
32	28+94.95	17.10 LT	1754582.59	515384.21
33	28+98.95	17.24 LT	1754583.72	515388.05
34	29+25.12	18.20 LT	1754591.14	515413.16
35	29+33.11	18.49 LT	1754593.40	515420.83
36	29+46.88	19.00 LT	1754597.31	515434.04
37	29+58.88	19.66 LT	1754600.50	515445.63
38	29+64.52	19.97 LT	1754602.00	515451.07
39	29+72.50	20.41 LT	1754604.13	515458.79
40	29+77.50	20.68 LT	1754605.45	515463.61
41	29+89.48	21.34 LT	1754608.64	515475.17
44	30+50.56	24.70 LT	1754624.90	515534.15
45	30+58.55	25.14 LT	1754627.02	515541.87
46	30+84.51	26.56 LT	1754633.93	515566.93
48	30+96.38	27.00 LT	1754637.35	515578.44
51	31+34.37	27.00 LT	1754649.60	515614.39
53	31+42.37	27.21 LT	1754651.98	515622.03
54	31+68.35	28.25 LT	1754659.37	515646.96
55	31+80.34	28.73 LT	1754662.79	515658.46

CONTROL POINTS				
POINT	STATION	OFFSET	X COORD.	Y COORD.
95	29+35.28	18.62 RT	1754629.28	515411.08
96	29+39.32	18.77 RT	1754630.71	515414.87
97	29+43.32	18.92 RT	1754632.12	515418.61
98	29+49.34	19.14 RT	1754634.25	515424.24
99	29+68.51	20.19 RT	1754641.34	515442.08
100	29+72.50	20.41 RT	1754642.82	515445.80
101	29+77.50	20.69 RT	1754644.67	515450.44
102	29+89.48	21.34 RT	1754649.11	515461.59
102A	30+58.40	25.13 RT	1754674.63	515525.73
103	30+66.39	25.57 RT	1754677.59	515533.16
104	30+92.47	27.00 RT	1754687.20	515557.32
105	31+04.47	27.00 RT	1754691.07	515568.68
106	31+19.09	27.00 RT	1754695.79	515582.51
107	31+27.09	27.00 RT	1754698.37	515590.08
108	31+43.09	27.00 RT	1754703.53	515605.23
109	31+55.09	27.00 RT	1754707.40	515616.59
110	31+75.00	27.00 RT	1754713.82	515635.43



ITEM 609.11 - VERTICAL CURB TYPE 1		
PT. TO PT.	RADIUS	LENGTH
30 TO 31	-	6.4'
31 TO 32	-	2.7'
32 TO 33	-	4.0'
33 TO 34	-	26.2'
37 TO 38	-	5.6'
41 TO 44	-	61.2'
48 TO 51	-	38.0'
96 TO 97	-	4.0'
97 TO 98	-	6.0'
98 TO 99	-	19.2'
102 TO 102A	-	69.0'
105 TO 106	-	14.6'
109 TO 110	-	20.0'

ITEM 609.221 - TERMINAL CURB TYPE 1		
PT. TO PT.	RADIUS	LENGTH
34 TO 35	-	8.0'
36 TO 37	-	12.0'
38 TO 39	-	8.0'
40 TO 41	-	12.0'
44 TO 45	-	8.0'
46 TO 48	-	12.0'
51 TO 53	-	8.0'
54 TO 55	-	12.0'
95 TO 96	-	4.0'
99 TO 100	-	4.0'
101 TO 102	-	12.0'
102A TO 103	-	8.0'
104 TO 105	-	12.0'
106 TO 107	-	8.0'
108 TO 109	-	12.0'



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806
WIN 022512.02
WIN 022511.02
BRIDGE PLANS

PROJ. MANAGER
GERALD DOSTIE

CHECKED
J. KHERRA

DESIGNED
L. SPINISCOLI

DESIGNED
T. HIGGINS

DATE
9/2025

DATE
9/2025

SIGNATURE

P.E. NUMBER

DATE

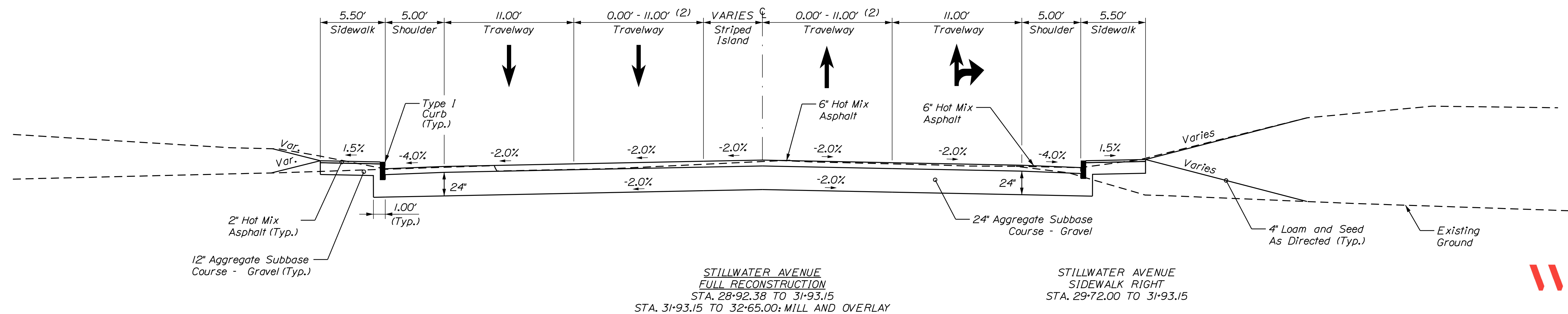
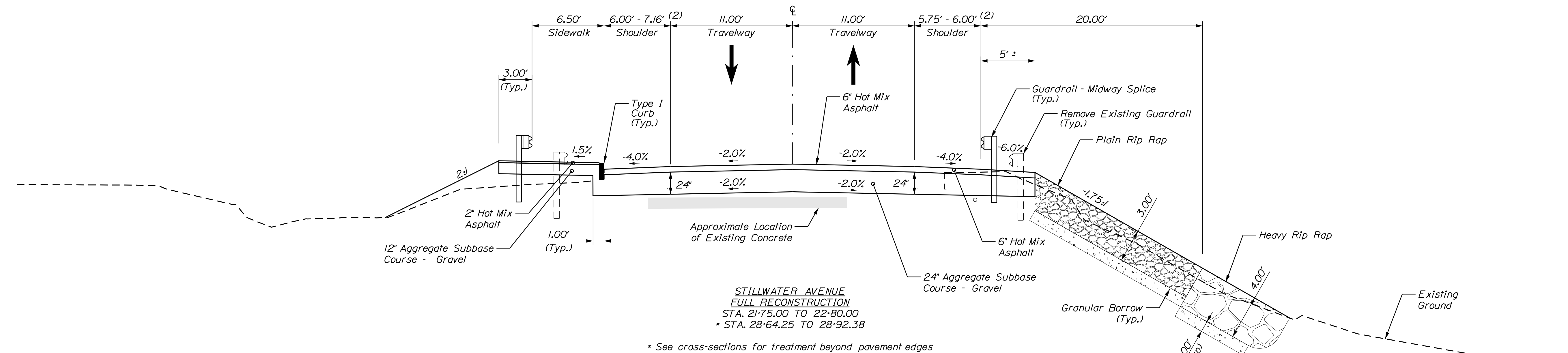
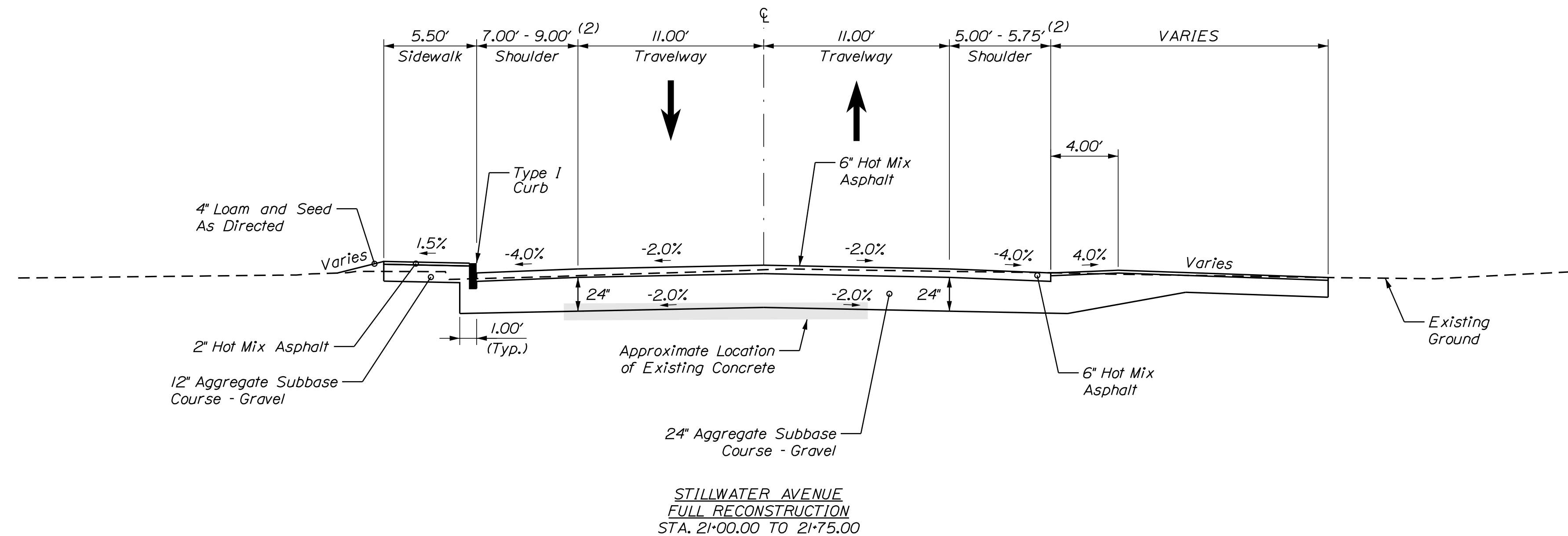
LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
OLD TOWN
PENOBSCOT COUNTY

GEOMETRICS PLAN

SHEET NUMBER

D16

OF D77



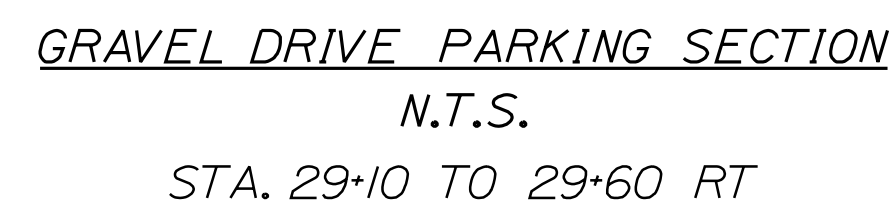
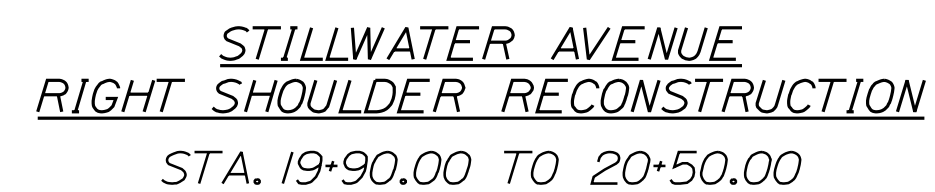
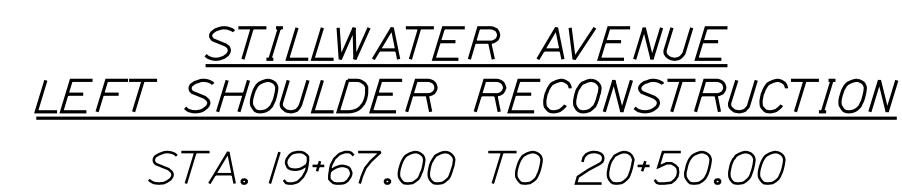
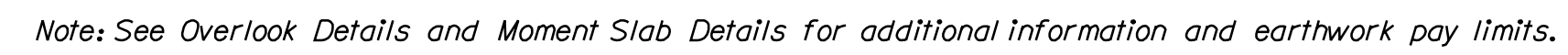
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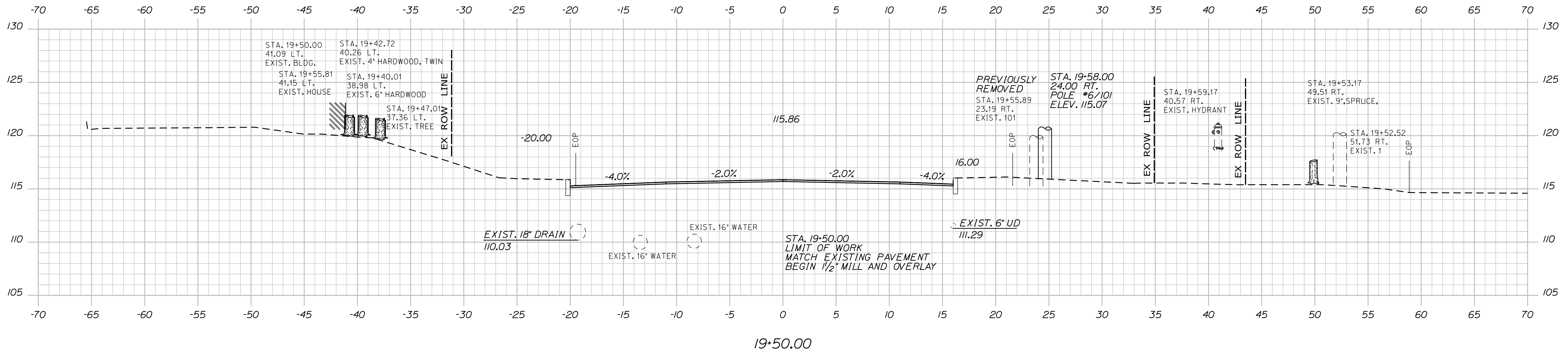
1. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.

2. SEE PLANS FOR SHOULDER, SIDEWALK AND LANE TRANSITION STATIONING.

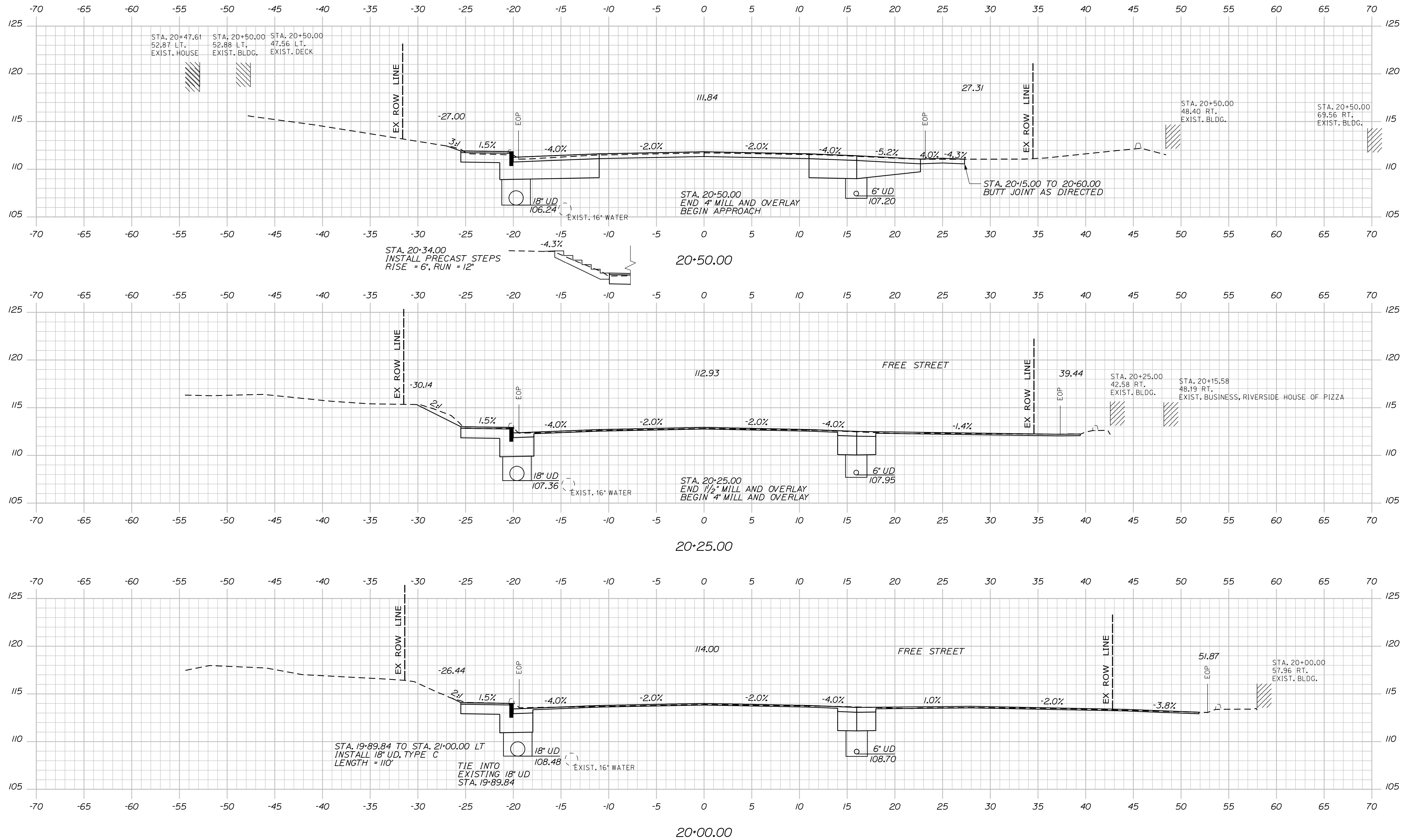
DESIGN-DETAILED	J. KIERA	C. CARNEY	9/2/2025
CHECKED/REVIEWED	L. SHUTE/CU	T. HIGSON	9/2/2025
DESIGN DETAIL#02			SIGNATURE
DESIGNS-DETAIL#03			P.E. NUMBER
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			DATE
FIELD CHANGES			







Filename: ... \BRIDGE\MSTA\z_Sections.dgn



D20	SHEET NUMBER	OLD TOWN		PENOBSCOT COUNTY		DESIGN-DETAILED	J. KIERA	C. CARNEY	9/2025	STATE OF MAINE
		STILLWATER RIVER				CHECKED-REVIEWED	L. SPINELLO	T. HIGGINS	9/2025	
		CROSS SECTIONS				DESIGN-DETAILED2				DEPARTMENT OF TRANSPORTATION
						DESIGN-DETAILED3				
						REVISIONS 1				STP-2251(200) & STP-2251(100)
						REVISIONS 2				
						REVISIONS 3				BRIDGE NO. 1472 BRIDGE NO. 2806
						REVISIONS 4				
						FIELD CHANGES				WIN 022512.02 WIN 022511.02
										BRIDGE PLANS

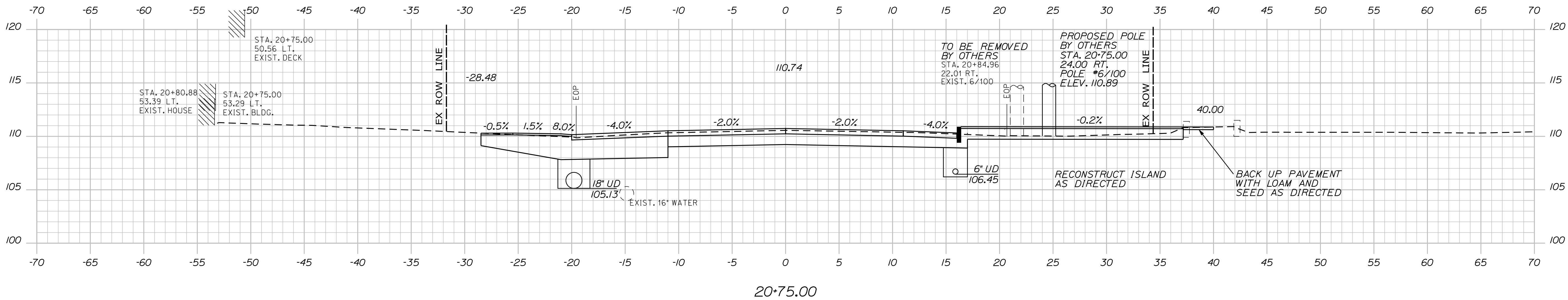
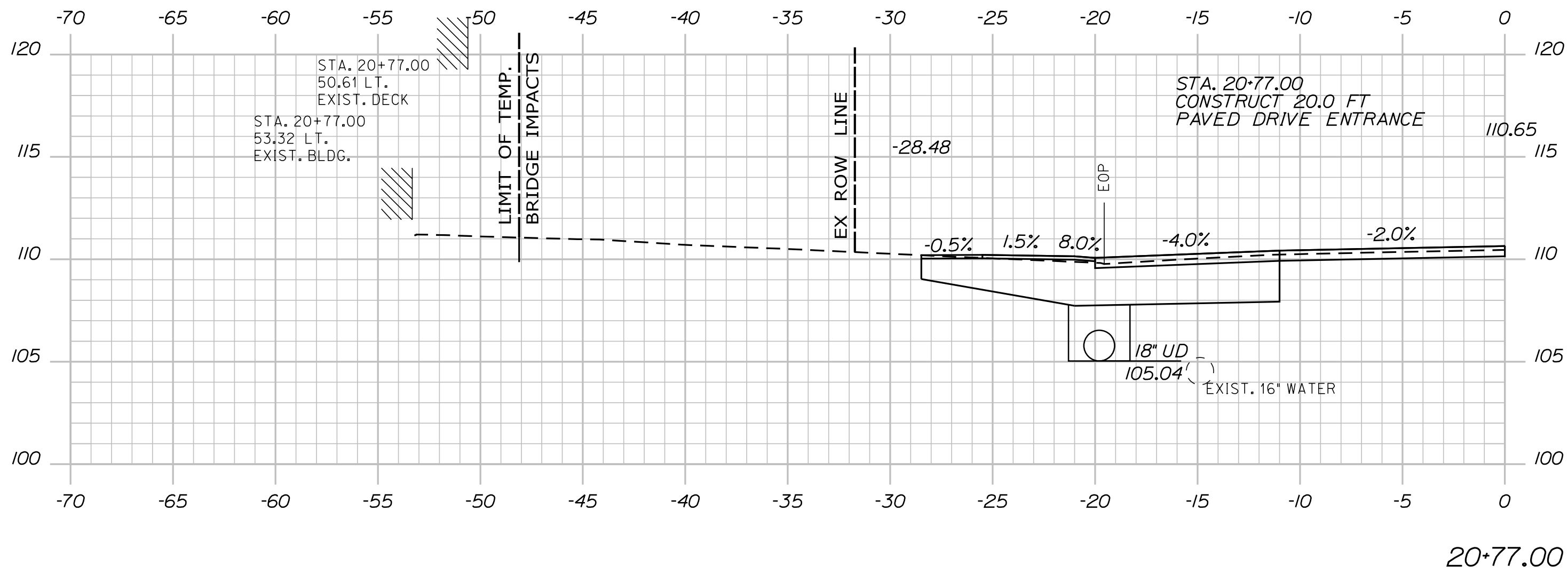
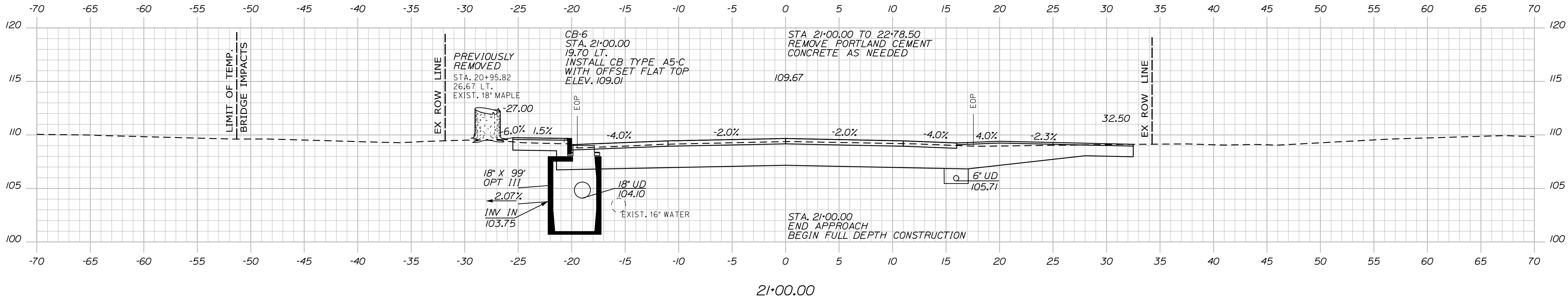
Sta. 20+00.00 to Sta. 20+50.00

Date:9/30/2025

Username:

Division: BRIDGE

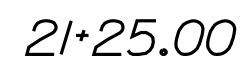
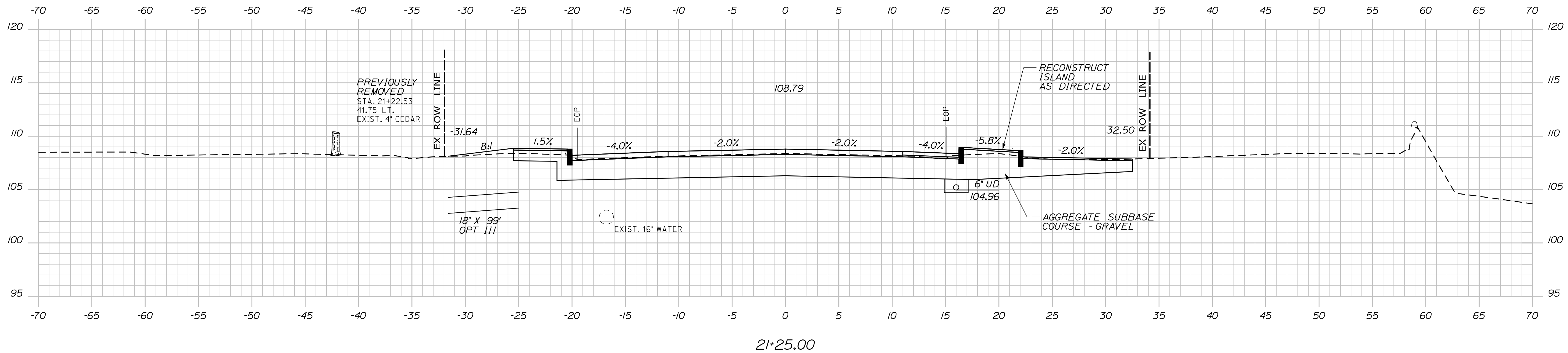
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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806	WIN 022512.02 WIN 022511.02	BRIDGE PLANS
	CROSS SECTIONS				
	SHEET NUMBER D21 OF D77				

PROJ. MANAGER	GERALD DOSTIE	BY	C. CARNEY	DATE	9/2025
DESIGN-DETAILED	J. KHERRA	CHECKED-REVIEWED	L. SPINELLI	SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2251(200) & STP-2251(100)
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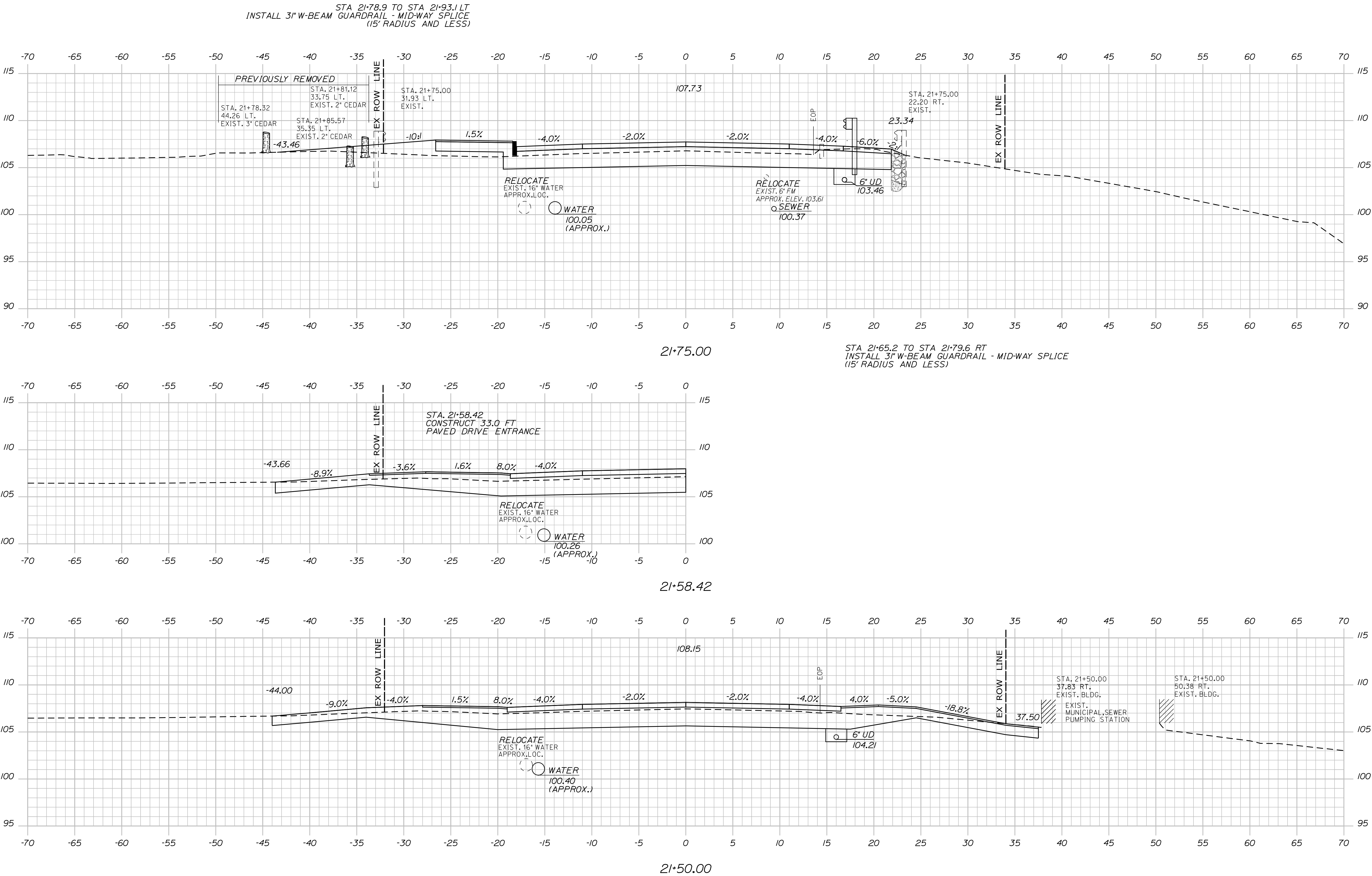
SHEET NUMBER D22 OF D77	LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY				PROJ. MANAGER	GERALD DOSTIE	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
					DESIGN-DETAILED	J. J. KHERA	C. CARNEY	9/2025	
					CHECKED-REVIEWED	L. SPINTESCU	T. HIGGINSON	9/2025	SIGNATURE
					DESIGNS DETAIL DTD				
					DESIGNS DETAIL D3			P.E. NUMBER	
CROSS SECTIONS				REVISIONS 1					BRIDGE NO. 1472 BRIDGE NO. 2806 WIN 022512.02 WIN 022511.02 BRIDGE PLANS
				REVISIONS 2					
				REVISIONS 3					
				REVISIONS 4					
				FIELD CHANGES					
							DATE		

Date:9/30/2025

Username:

Division: BRIDGE

Filename: ... \BRIDGE\MAIN\STAZ_Sections.dgn



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806	WIN 022512.02 WIN 022511.02	BRIDGE PLANS
	CROSS SECTIONS				
	SHEET NUMBER D23 OF D77				

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
OLD TOWN
PENOBSCOT COUNTY

DATE
9/2025
BY
C. CARNEY
CHECKED-REVIEWED
J. KHERA
DESIGNED-DETAILED
G. DOSTIE
REVISIONS
1
2
3
4
FIELD CHANGES

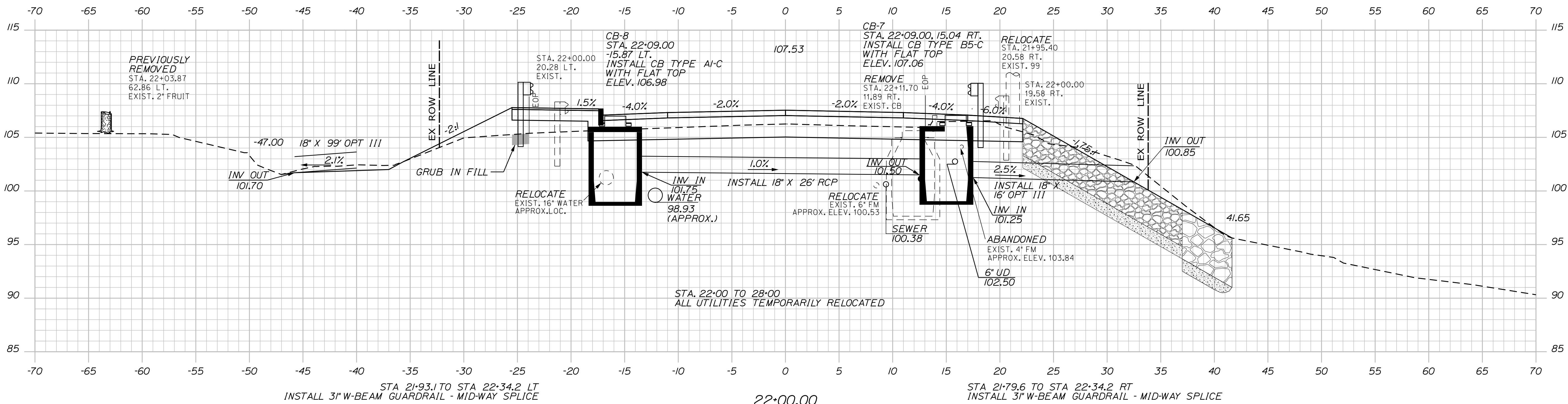
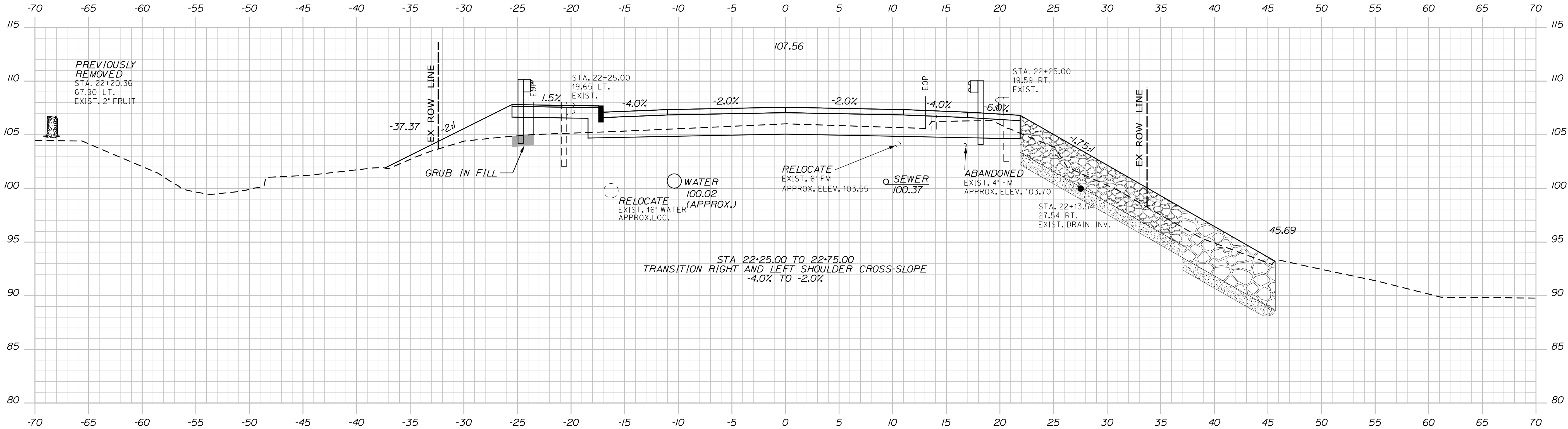
SIGNATURE
P.E. NUMBER
DATE

Date:9/30/2025

Username:

Division: BRIDGE

Filename: ... \BRIDGE\MSTAZ_Sections.dgn



PROJ. MANAGER	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
GERALD DOSTIE	9/2025	C. CARNEY	9/2025			
CHECKED-REVIEWED	J. KHERRA	C. CARNEY	9/2025			
DESIGNED-DETAILED	L. SINTESCU	T. HIGGINS	9/2025			
DESIGNED-DETAILED						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

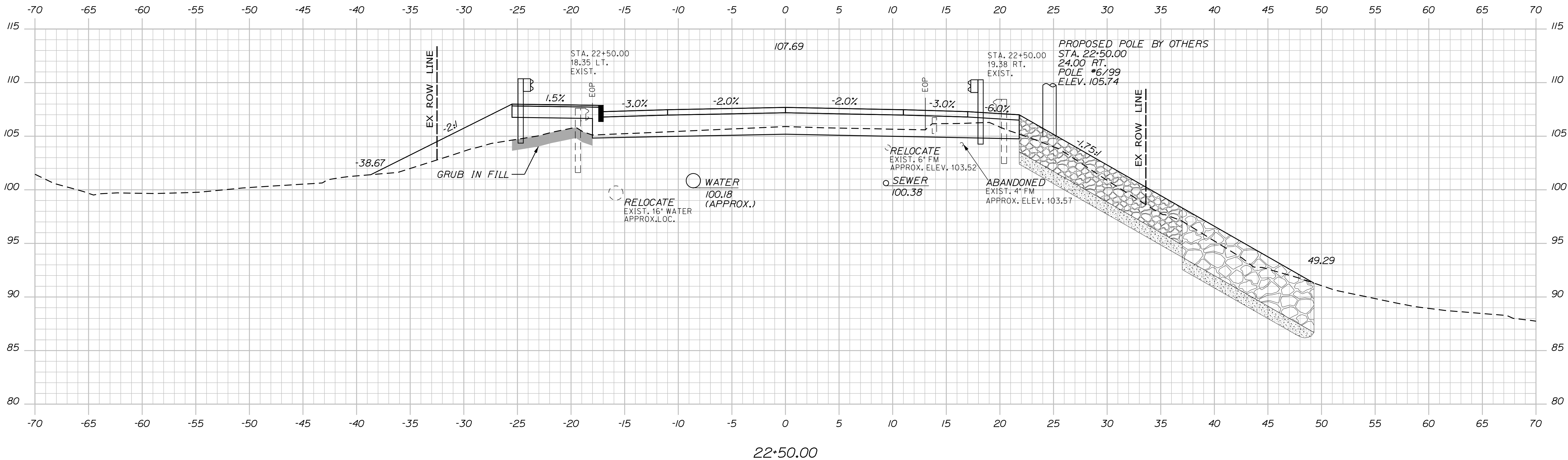
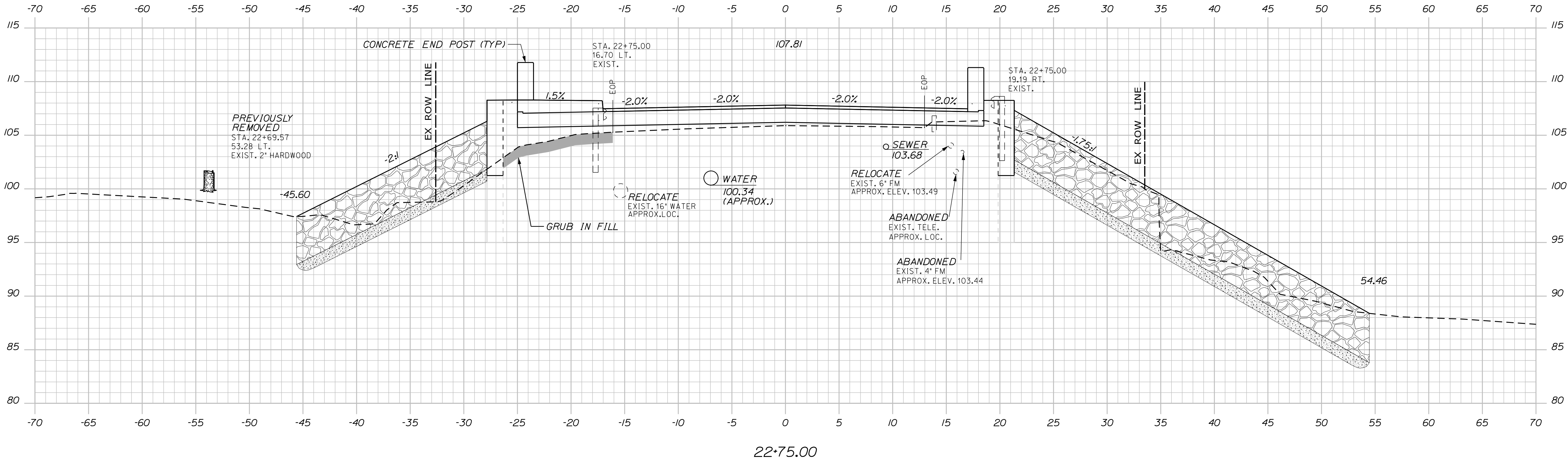
LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN
CROSS SECTIONS

Date:9/30/2025

Username:

Division: BRIDGE

Filename: ... \BRIDGE\MTA\Z_Sections.dgn



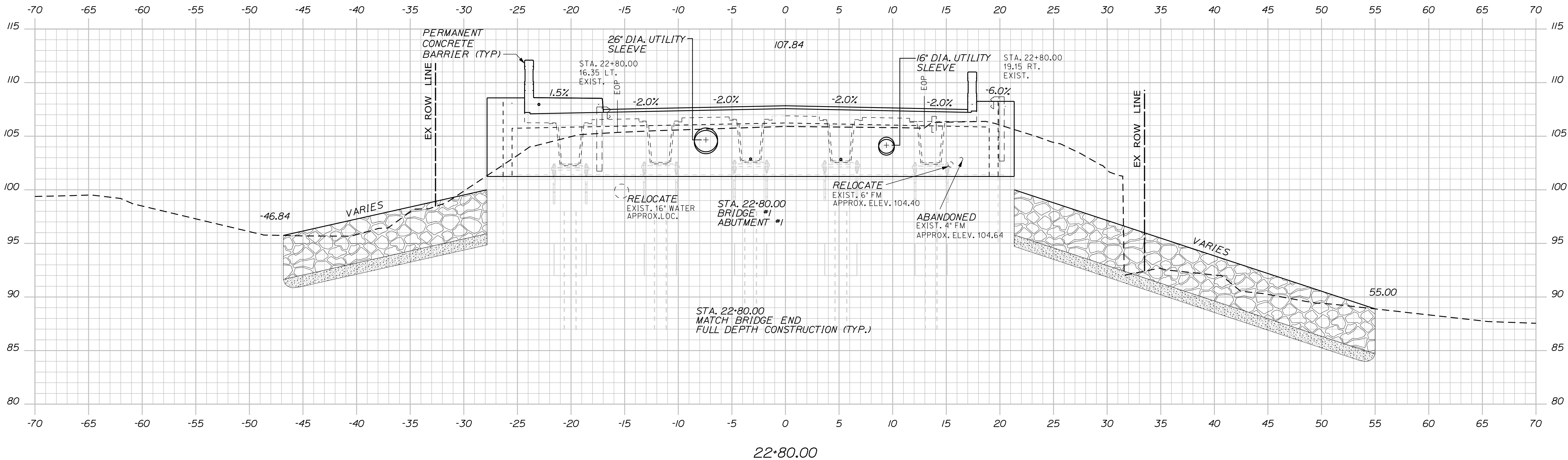
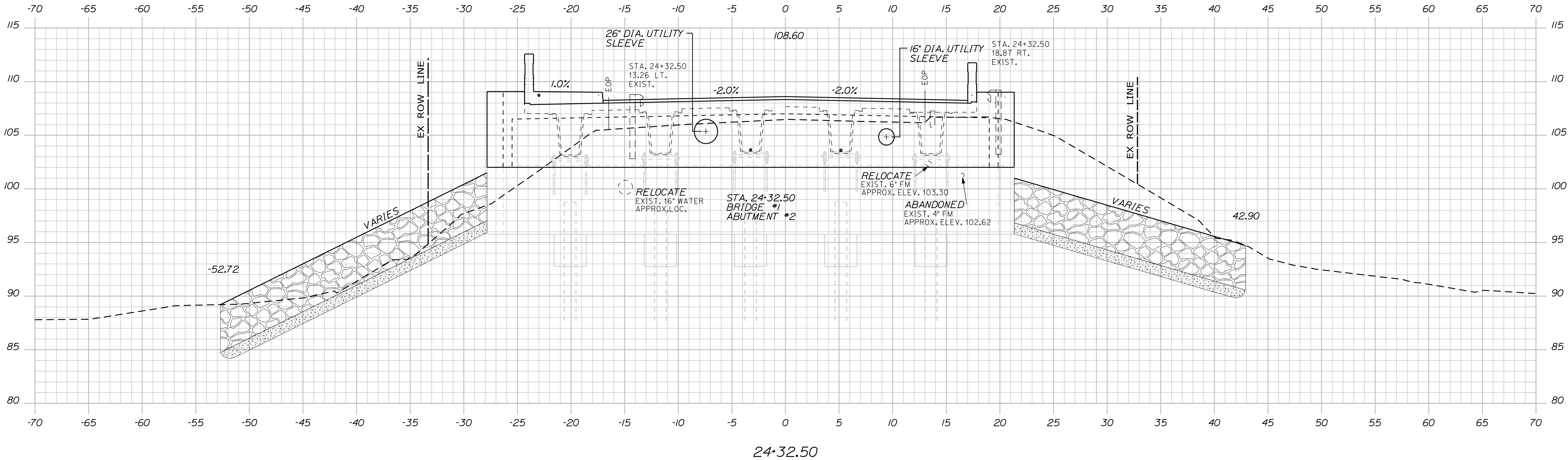
PROJ. MANAGER	BY	DATE	SIGNATURE
GERALD DOSTIE	C. CARNEY	9/2025	
DESIGN-DETAILED	J. KHERA	9/2025	
CHECKED-REVIEWED	R. SPINELLI	9/2025	
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Date:9/30/2025

Username:

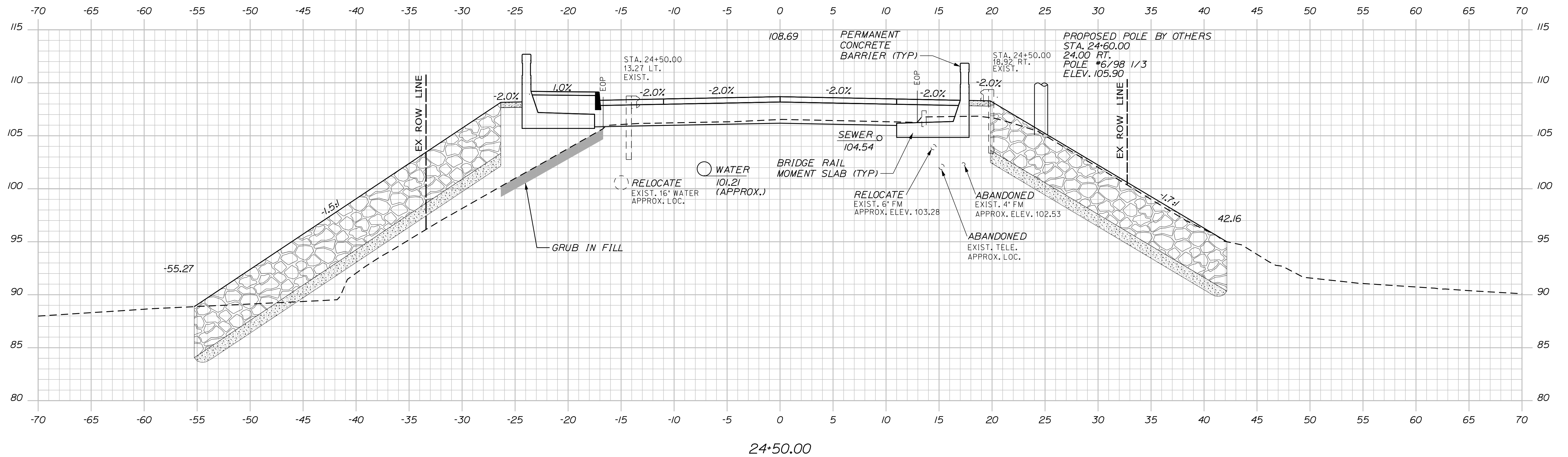
Division: BRIDGE

Filename: ... \BRIDGE\MSTA\z_Sections.dgn



PROJ. MANAGER	GERALD DOSTIE	BY	DATE	
DESIGN-DETAILED	J. KHERRA	C. CARNEY	9/2025	SIGNATURE
CHECKED-REVIEWED	L. SPITTSLOU	T. HIGGINS	9/2025	
DESIGN-DETAILED				
DESIGN-DETAILED				P.E. NUMBER
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				DATE
REVISIONS 4				
FIELD CHANGES				

Filename: ... \BRIDGE\MSTA\z_Sections.dgn



SHEET NUMBER

D27

OF D77

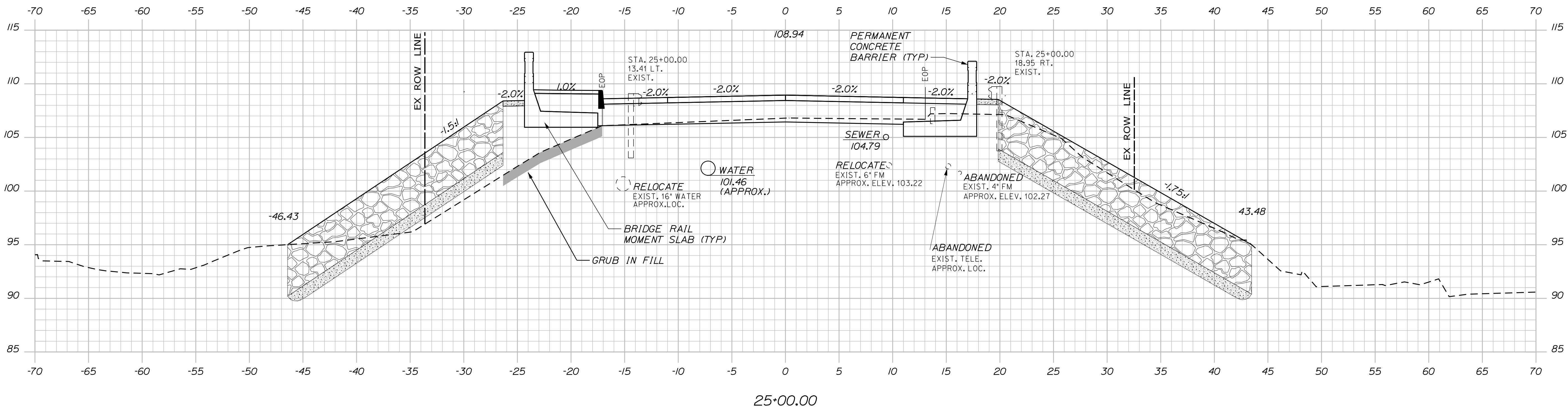
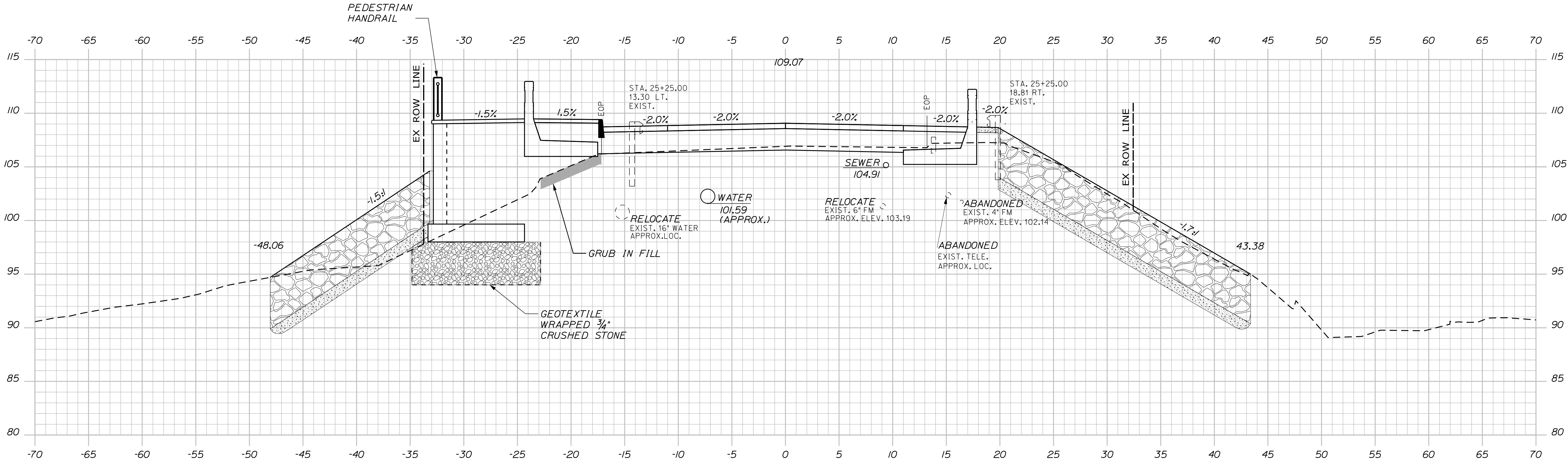
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Date:9/30/2025

Username:

Division: BRIDGE

Filename: ... \BRIDGE\MTA\Z_Sections.dgn



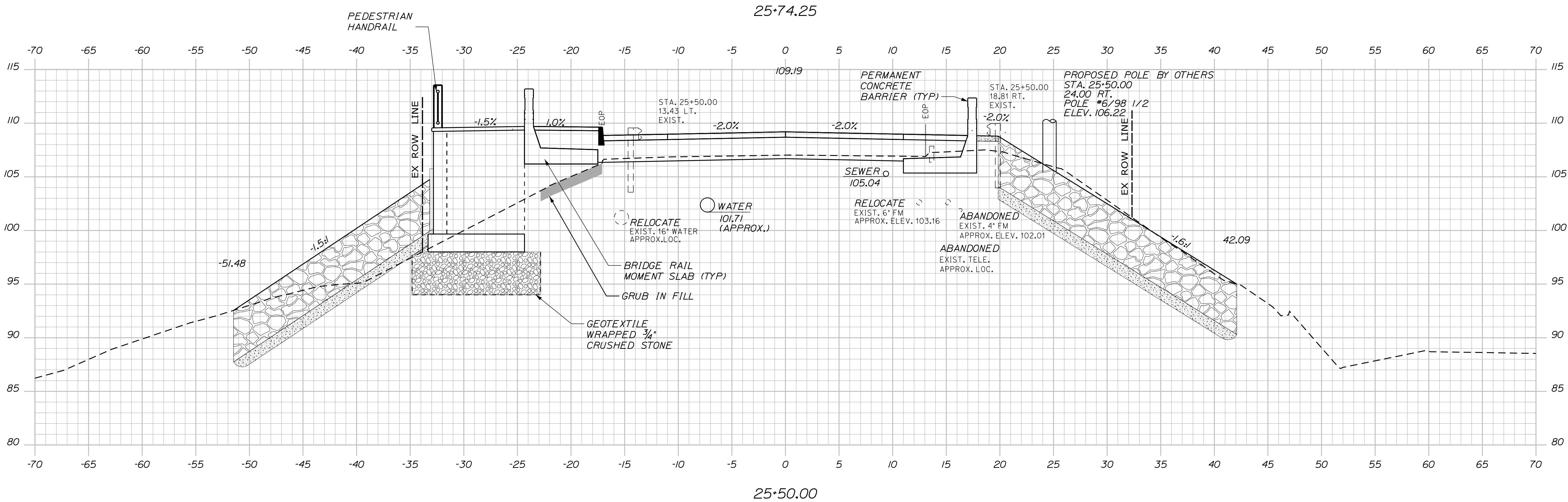
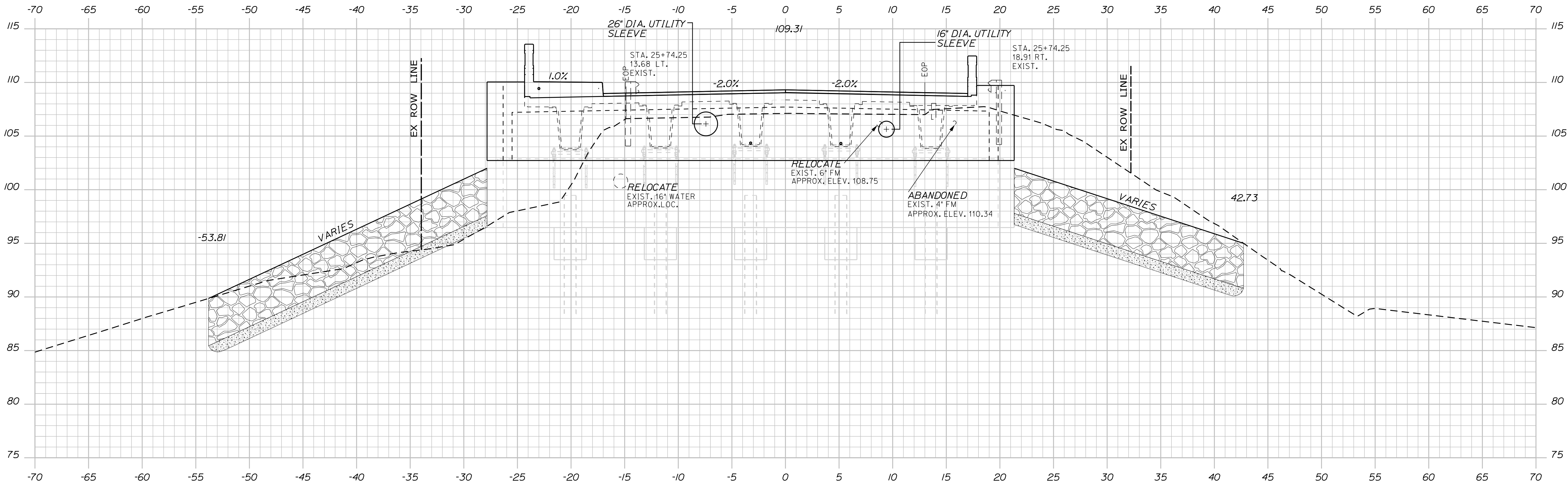
PROJ. MANAGER	CHECKED-REVIEWED	DATE	BY	DATE	SIGNATURE
J. KHERRA	C. CARNEY	9/2025	C. CARNEY	9/2025	
DESIGN-DETAILED	DESIGN-DETAILED				
DESIGN-DETAILED	DESIGN-DETAILED				
REVISIONS 1	REVISIONS 2				
REVISIONS 3	REVISIONS 4				
FIELD CHANGES					

Date:9/30/2025

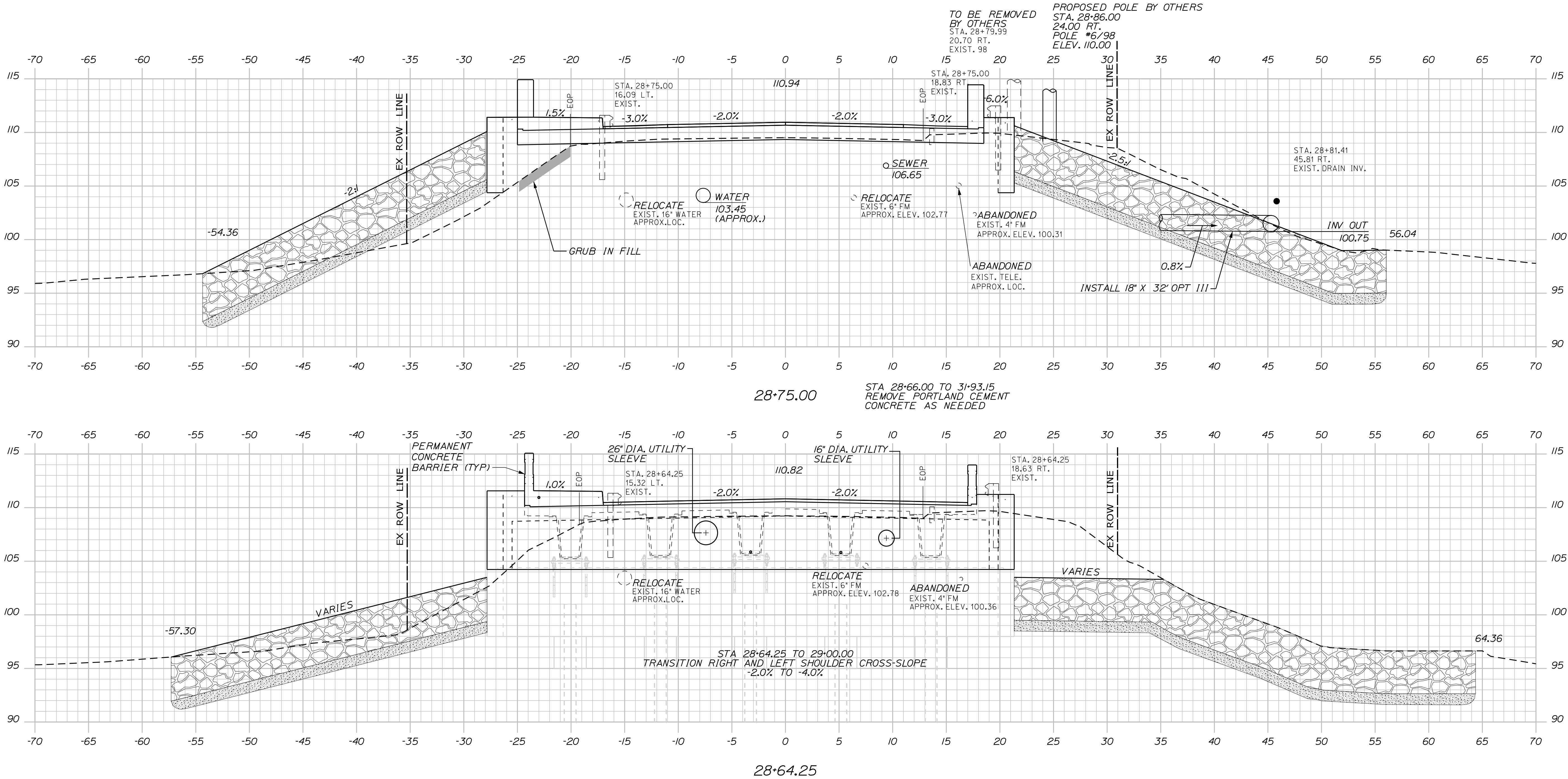
Username:

Division: BRIDGE

Filename: ... \BRIDGE\MTA\Z_Sections.dgn



PROJ. MANAGER	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
GERALD DOSTIE	9/2025	C. CARNEY	9/2025			
DESIGN-DETAILED		J. KHERRA				
CHECKED-REVIEWED		L. SINTESCU				
DESIGN-DETAILED						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

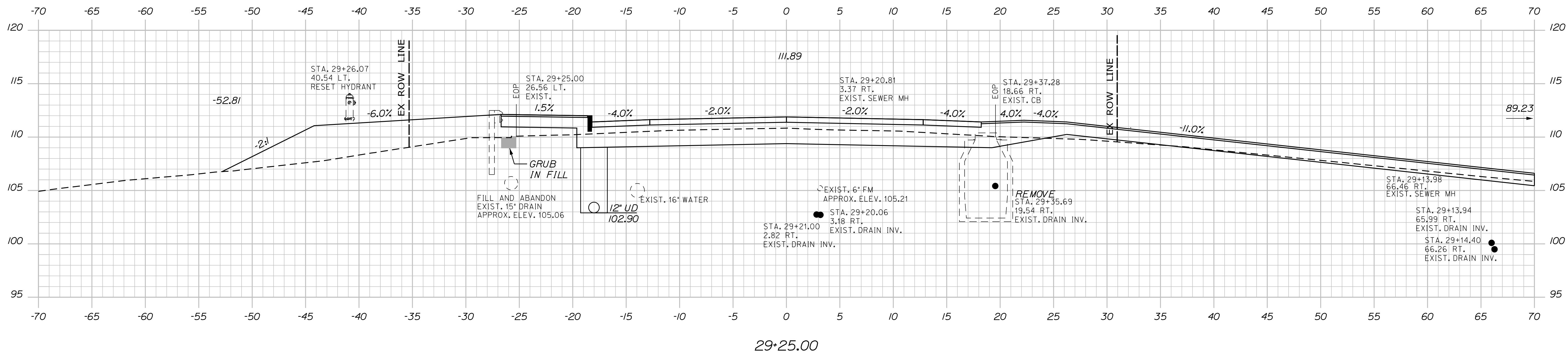


PROJ. MANAGER	BY	DATE	SIGNATURE
GERALD DOSTIE	C. CARNEY	9/2025	
CHECKED-REVIEWED	J. KHERA	9/2025	
DESIGNED-DETAILED	L. SPINELLI		
DESIGNED-DETAILED	T. HIGGINS		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

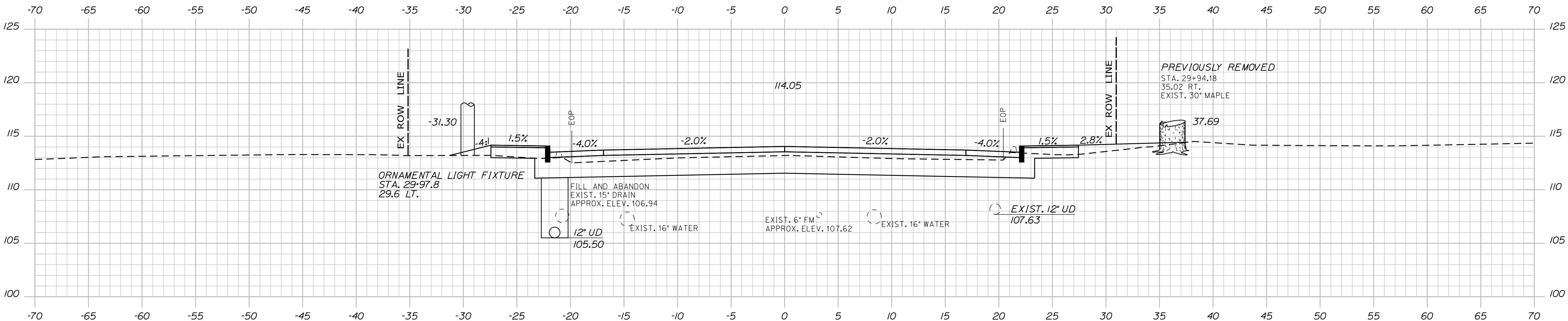
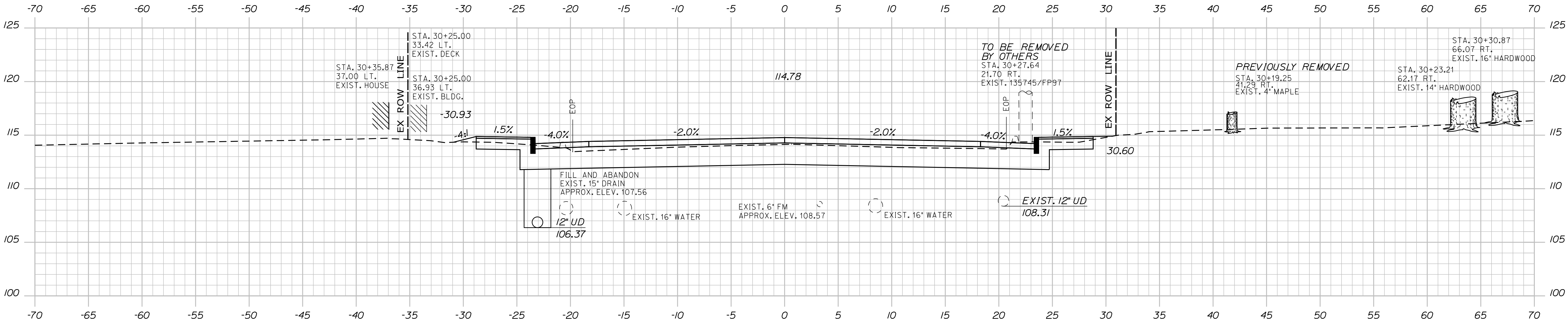
LLWELLYN ESTES BRIDGES STILLWATER RIVER PENOBSCOT COUNTY OLD TOWN	CROSS SECTIONS
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SHEET NUMBER
D31
OF D77



SHEET NUMBER D32 OF D77	LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY CROSS SECTIONS	PROJ. MANAGER	GERALD DOSTIE	BY	DATE
		DESIGN-DETAILED	J. KHERA	C. CARNEY	9/2025
		CHECKED-REVIEWED	L. SPINETSQU	T. HIGGINSON	9/2025
		DESIGNS-DETAILED	D2		SIGNATURE
		DESIGNS-DETAILED	D3		P.E. NUMBER
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			DATE
		FIELD CHANGES			
STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2251(200) & STP-2251(100) BRIDGE NO. 1472 BRIDGE NO. 2806 WIN 022512.02 WIN 022511.02 BRIDGE PLANS					



PROJ. MANAGER	BY	DATE	SIGNATURE
GERALD DOSTIE	C. CARNEY	9/2025	
DESIGN-DETAILED	J. KHERA	9/2025	
CHECKED-REVIEWED	T. HIGGINSON		
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN

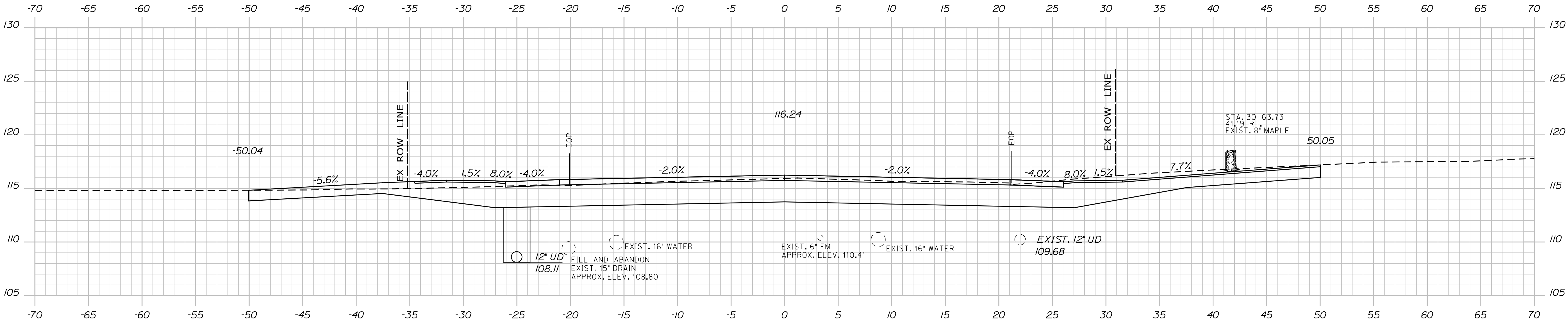
CROSS SECTIONS

Date:9/30/2025

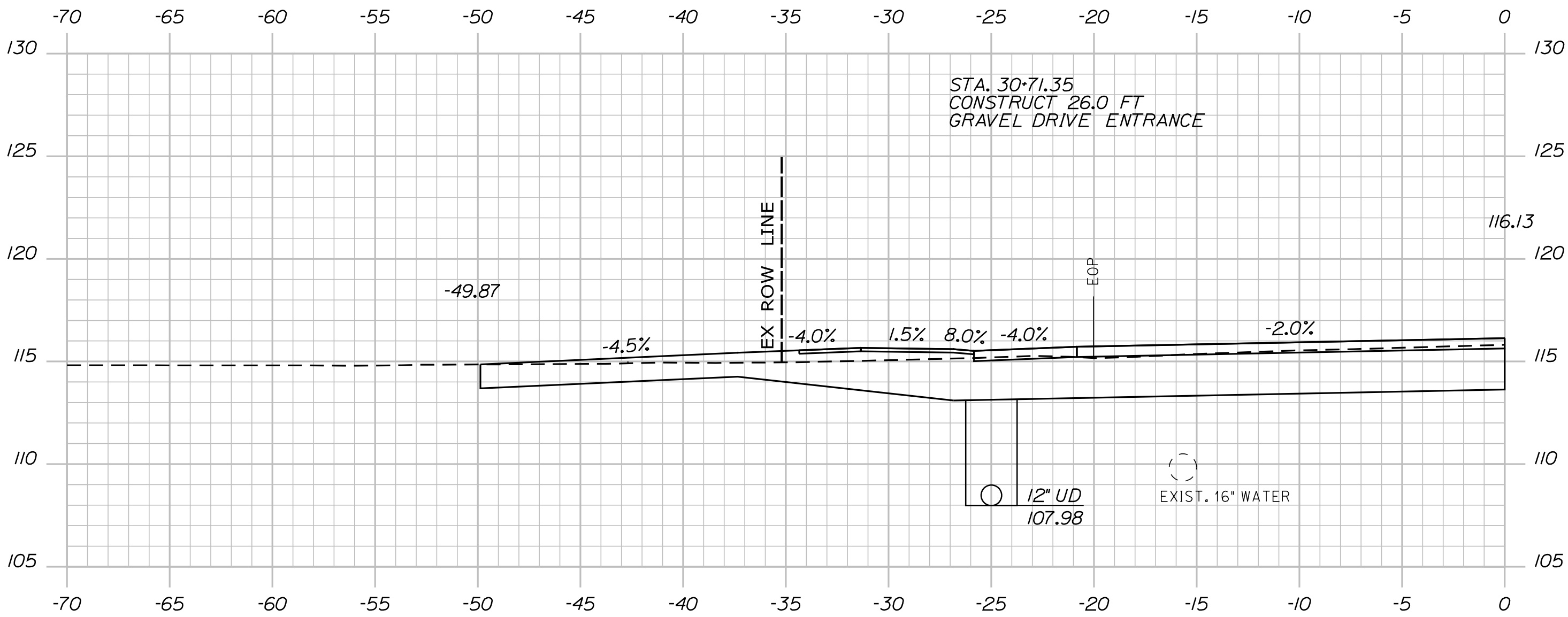
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Division: BRIDGE

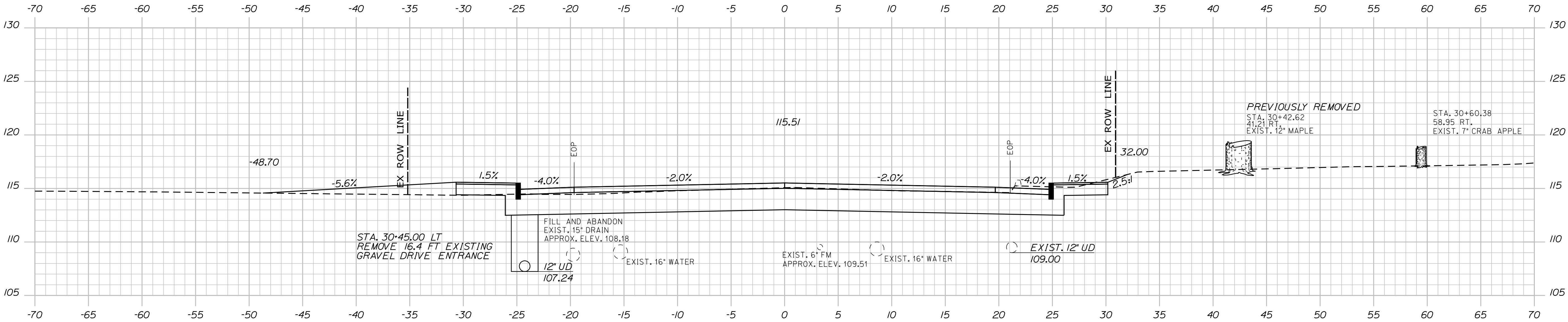
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30+75.00



30+71.35



30+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806
WIN 022512.02
WIN 022511.02
BRIDGE PLANS

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

DATE
9/2025
9/2025

BY
C. CARNEY
T. HIGGINS

SIGNATURE
P.E. NUMBER
DATE

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN

CROSS SECTIONS

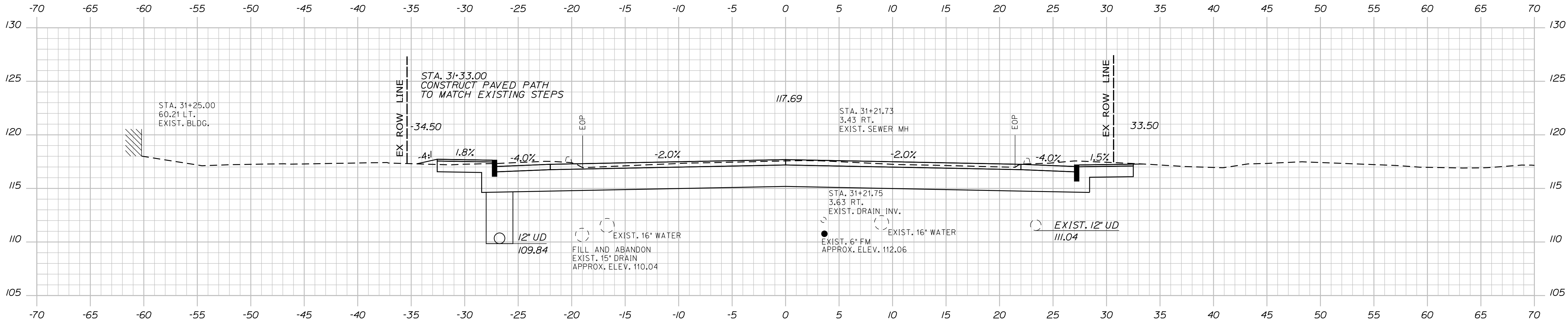
SHEET NUMBER
D35
OF D77

Date:9/30/2025

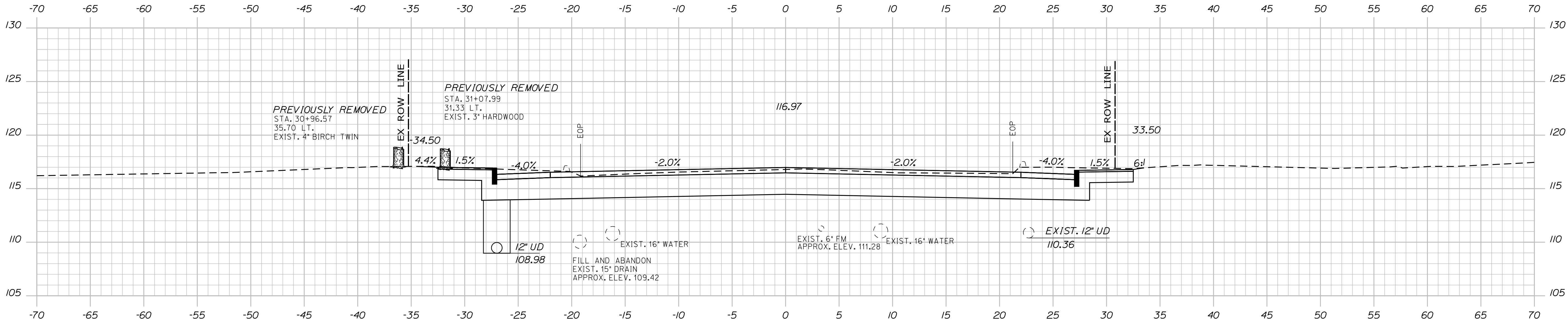
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Division: BRIDGE

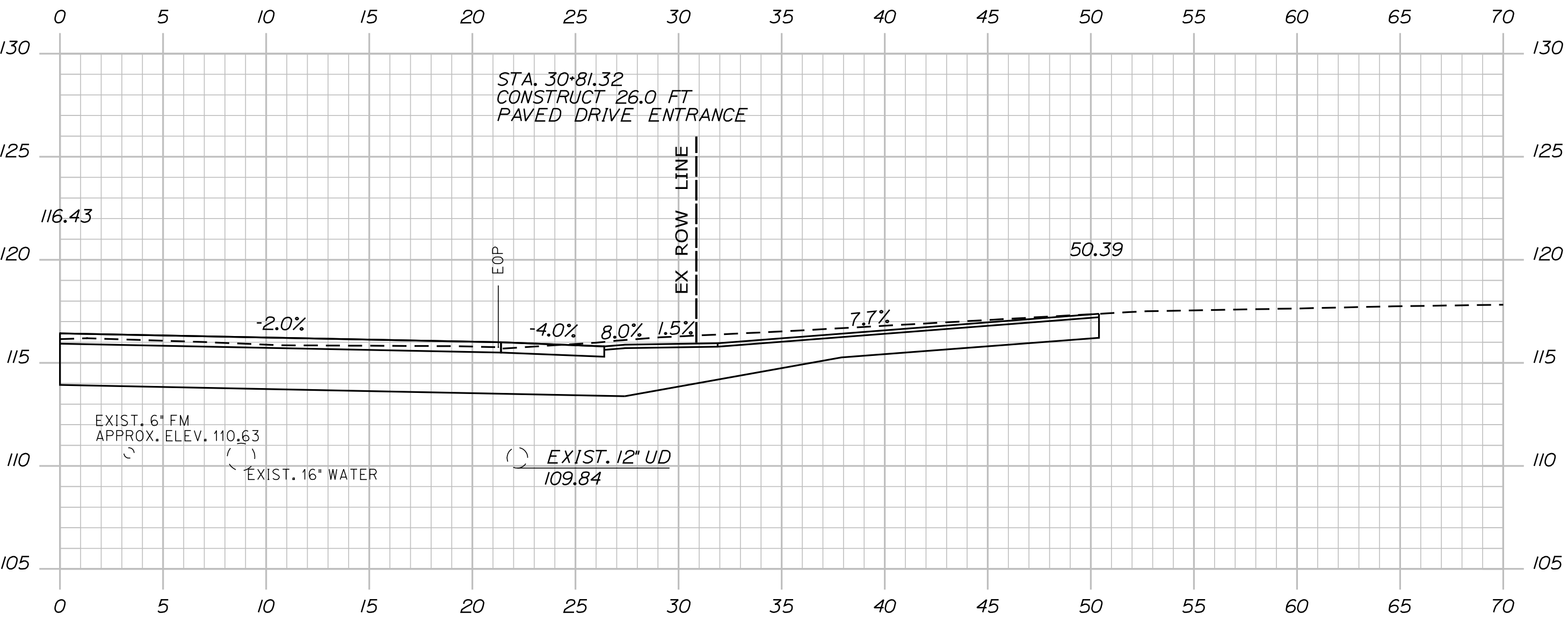
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31+00.00



30+81.32

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

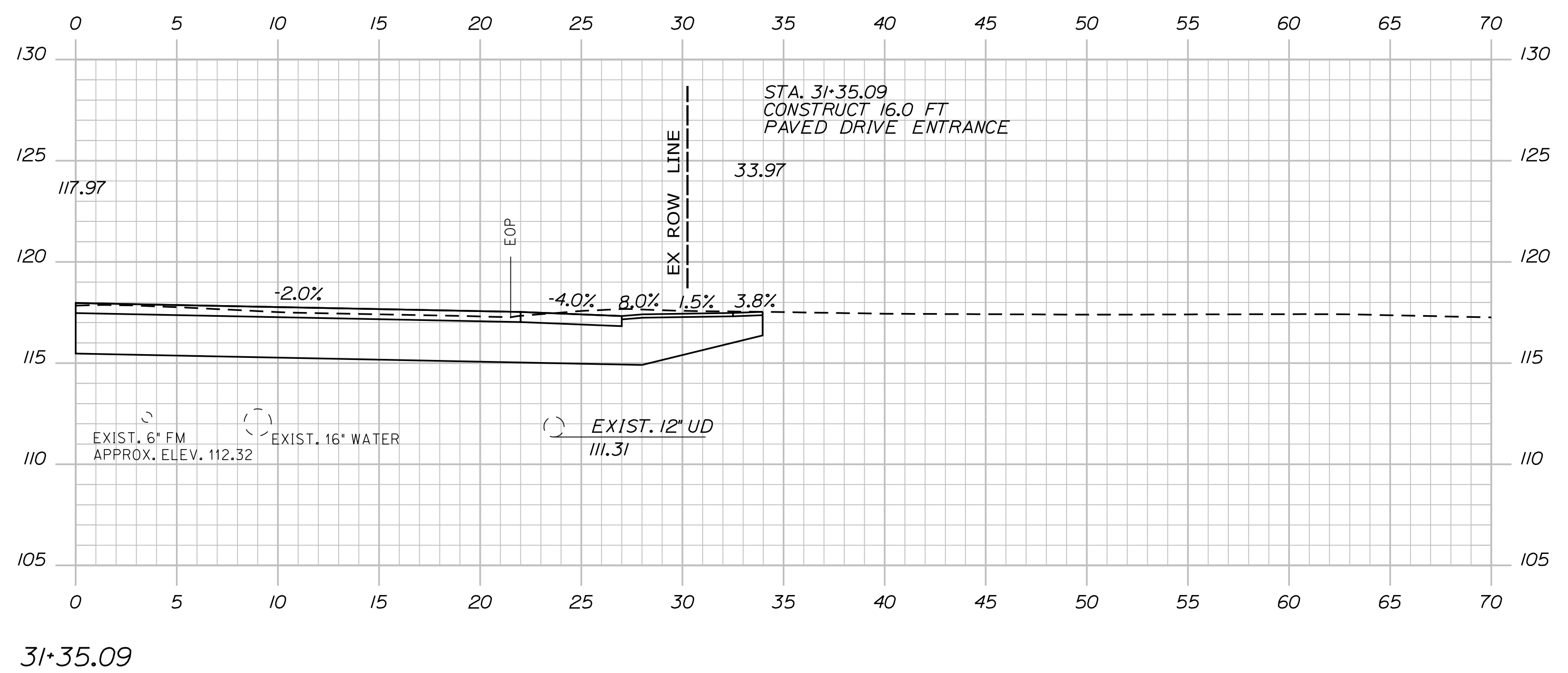
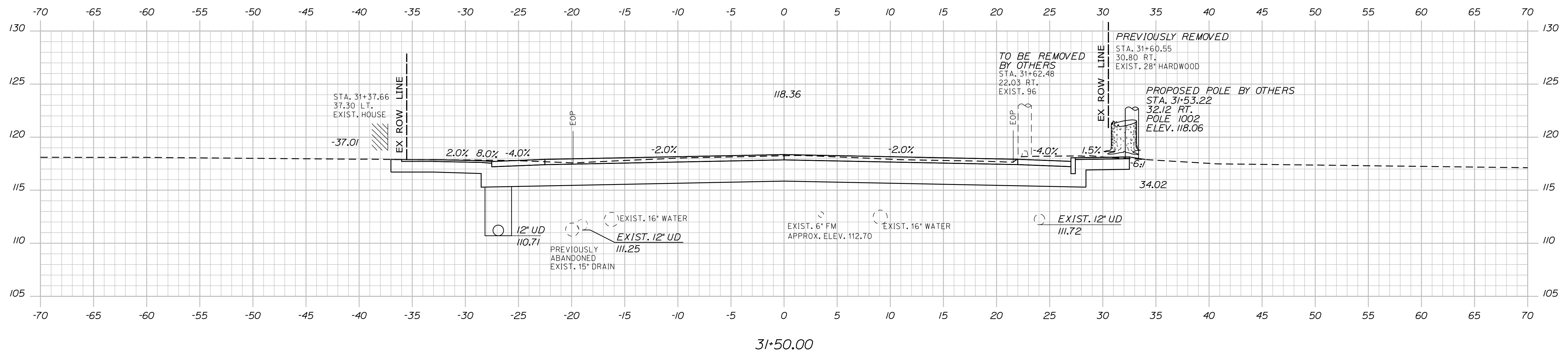
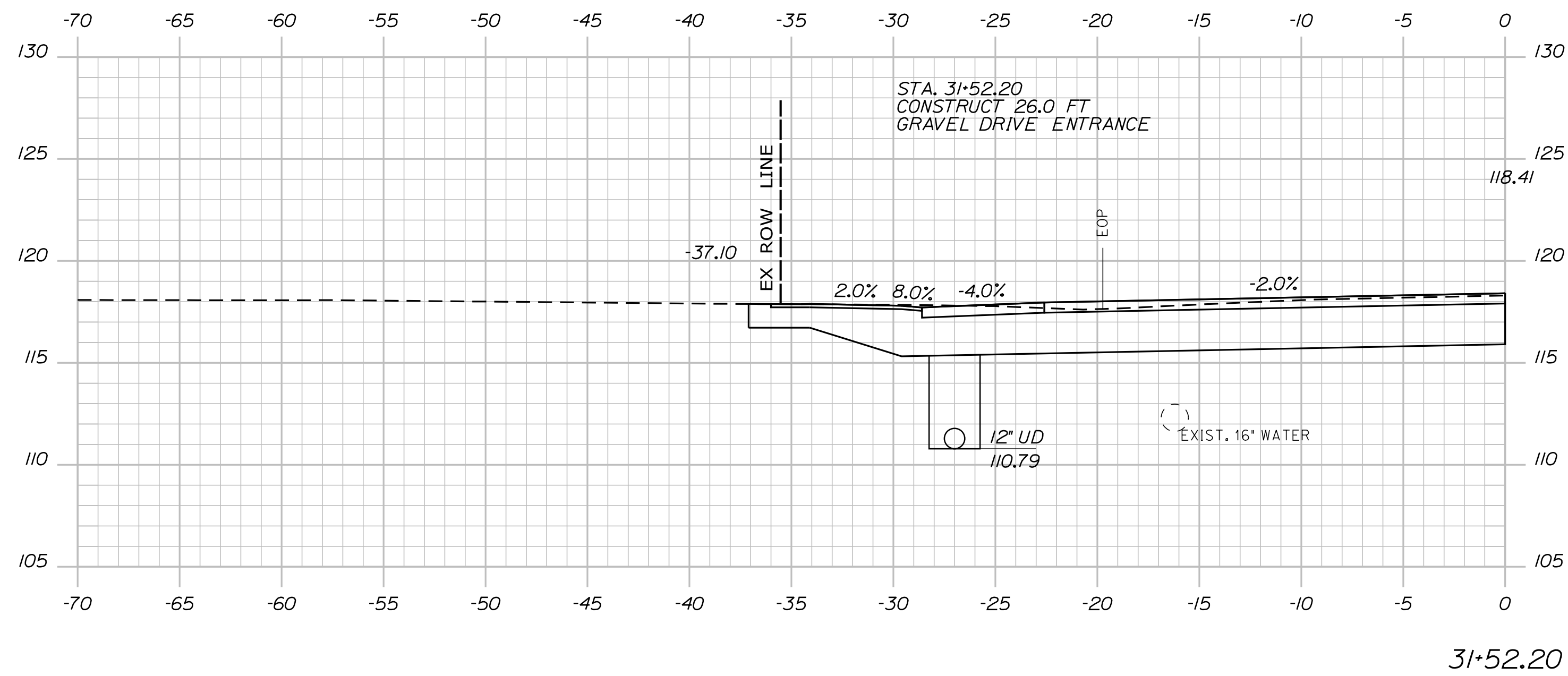
BRIDGE NO. 1472
BRIDGE NO. 2806
WIN 022512.02
WIN 022511.02
BRIDGE PLANS

PROJ. MANAGER	GERALD DOSTIE	BY	C. CARNEY	DATE	9/2025
DESIGN-DETAILED	J. KHERRA	CHECKED-REVIEWED	R. SPINELLI	SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN

CROSS SECTIONS

SHEET NUMBER
D36
OF D77



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806

BRIDGE I

BRIDGE PLANS

PROJ. MANAGER	J. KHERA	DOISTE	BY	DATE
DESIGN-DETAILED	C. CARNEY			9/2025
CHECKED-REVIEWED	L. SMITH	J. HIGGINS		9/2025
DESIGN3-DETAILED2				
DESIGN3-DETAILED3				
REVISIONS 1				
REVISIONS 2				
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OLD TOWN
STILLWATER RIVER
LLEWELLYN ESTES BRIDGES
PENOBSCOT COUNTY

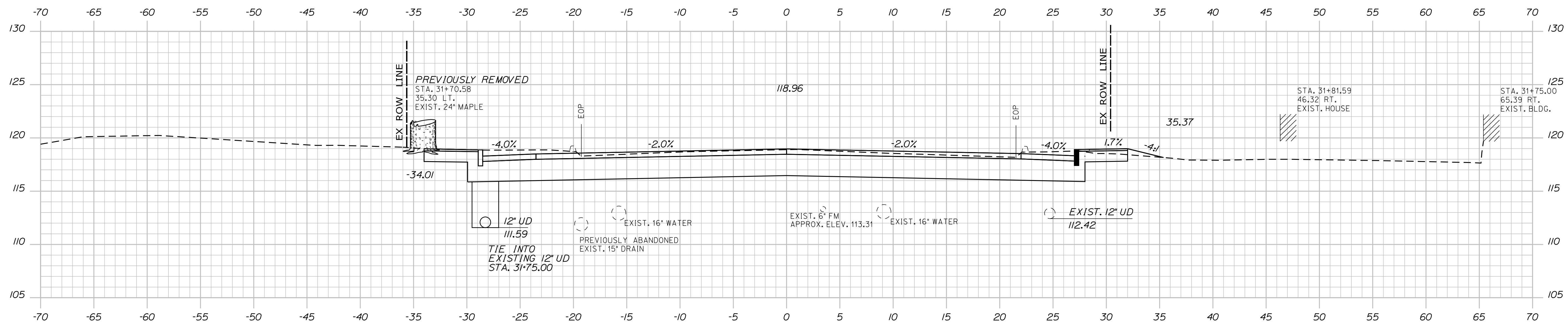
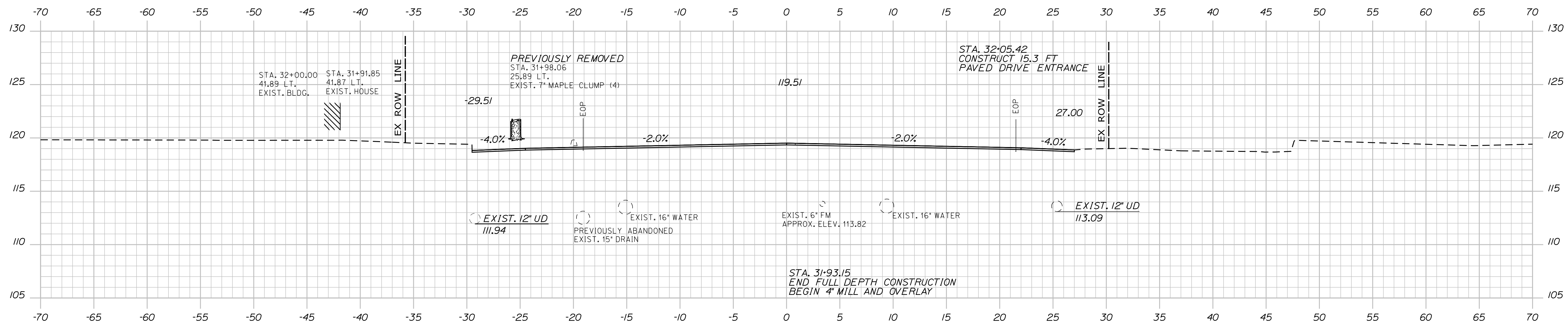
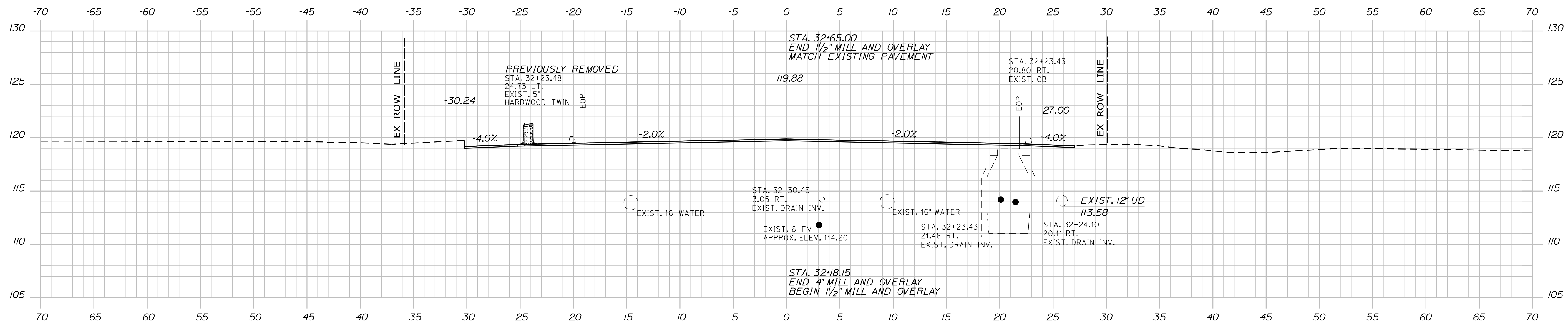
CROSS SECTIONS

SHEET NUMBER

D37

OF D77

Sta. 31+35.09 to Sta. 31+52.20



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
STP-2251(200) & STP-2251(100)	
BRIDGE NO. 1472	WIN 022512.02
BRIDGE NO. 2806	WIN 022511.02
BRIDGE PLANS	

	PROJ. MANAGER	GERALD DOSTIE	BY	DATE
	DESIGN-DETAILS	J. KHERA	C. CARNEY	9/2025
SIGNATURE	CHECKED-RVIEWED	L. SWINSCU	T. HIGSON	9/2025
P.E. NUMBER	DESIGN-DETAILS			
	REVISIONS 1			
	REVISIONS 2			
	REVISIONS 3			
DATE	REVISIONS 4			
	FIELD CHANGES			

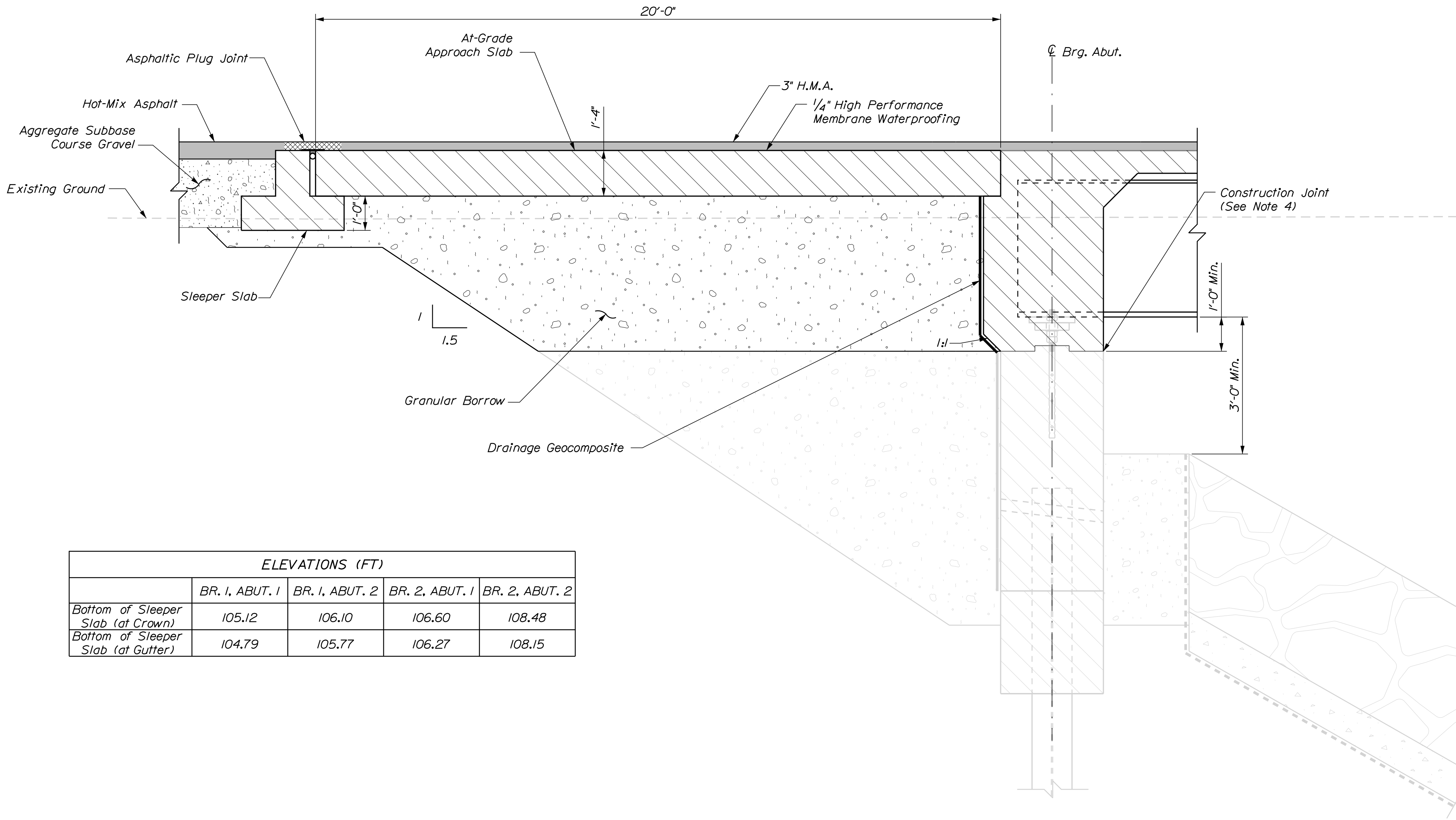
LLEWELLYN ESTES BRIDGES
 STILLWATER RIVER
 OLD TOWN PENOBSCOT COUNTY
 CROSS SECTIONS

SHEET NUMBER

D38

OF D77

Sta. 31+75.00 to Sta. 32+18.15

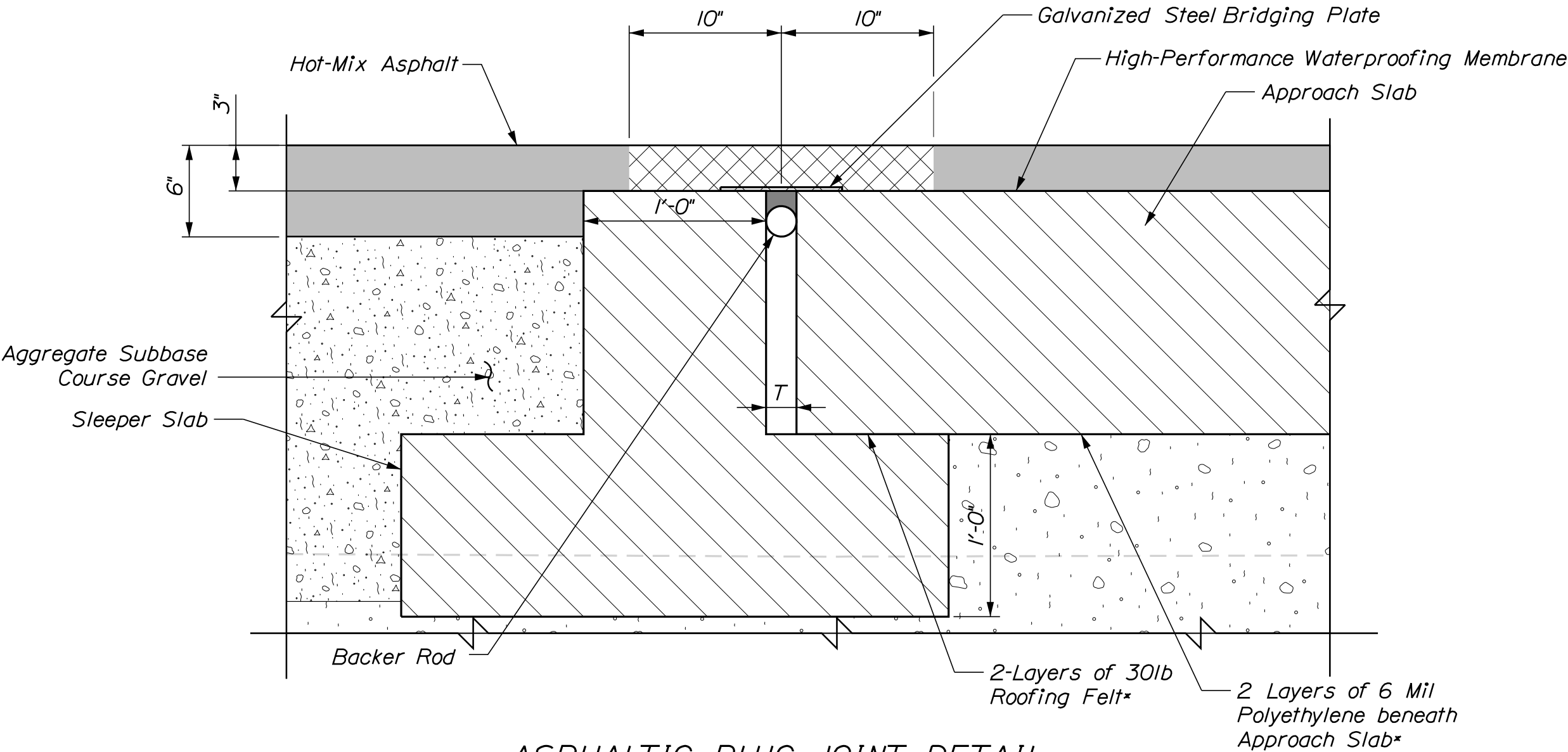


- ABUTMENT NOTES:**
1. Typical abutment details for the anticipated completed abutment are shown for clarity; however, work associated with this PS&E package includes construction of the abutments/wingwalls above the construction joint. Previous work completed as part of ERP#6 is below the construction joint and shown in gray.
 2. Reinforcing steel shall have a minimum concrete cover of 3 inches unless otherwise noted.
 3. Cover joints where waterstops are not required in accordance with Standard Details Section 502.
 4. Omit V-groove at exposed face of horizontal construction joint at bridge seat.
 5. Install drainage geocomposite behind the abutments and wingwalls up to the approach slab seat elevation in accordance with special provision section 620, Drainage Geocomposite.
 6. Concrete above the construction joint shall be paid as Structural Concrete, Roadway and Sidewalk Slab on Composite Bridges unless otherwise noted.

ELEVATIONS (FT)				
	BR. 1, ABUT. 1	BR. 1, ABUT. 2	BR. 2, ABUT. 1	BR. 2, ABUT. 2
Bottom of Sleeper Slab (at Crown)	105.12	106.10	106.60	108.48
Bottom of Sleeper Slab (at Gutter)	104.79	105.77	106.27	108.15

TYPICAL ABUTMENT SECTION

DIMENSION "T"		
TEMP (F)	BR. 1	BR. 2
40	2 1/16"	2 1/8"
50	2"	2"
60	1 5/16"	1 7/8"
70	1 7/8"	1 3/4"
80	1 3/16"	1 5/8"
90	1 1/16"	1 1/2"



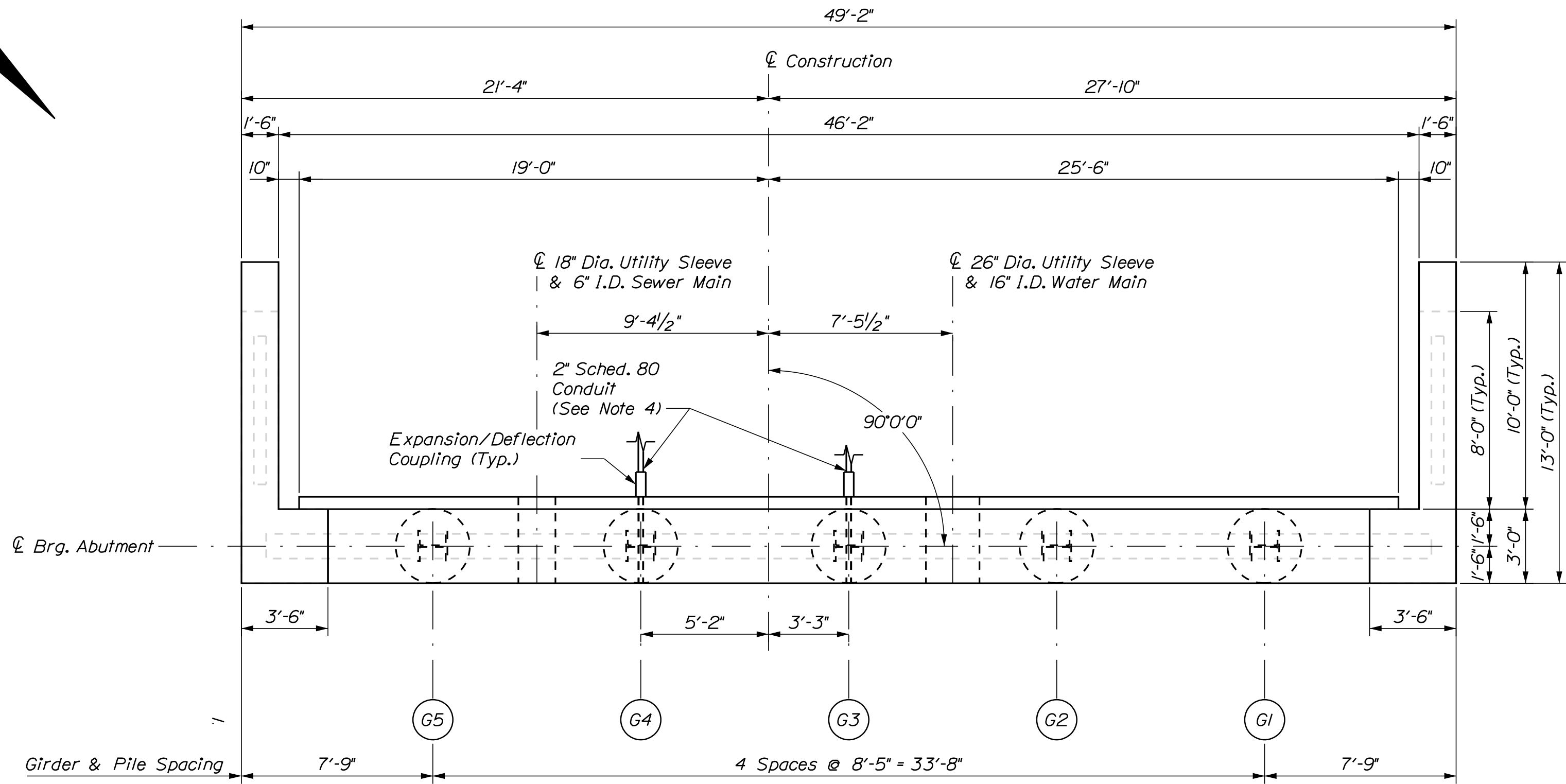
ASPHALTIC PLUG JOINT DETAIL

Note: Asphaltic Plug Joint is shown schematically. Contractor shall utilize an approved joint listed on the MaineDOT Qualified Products List following the Manufacturer's Recommendations.

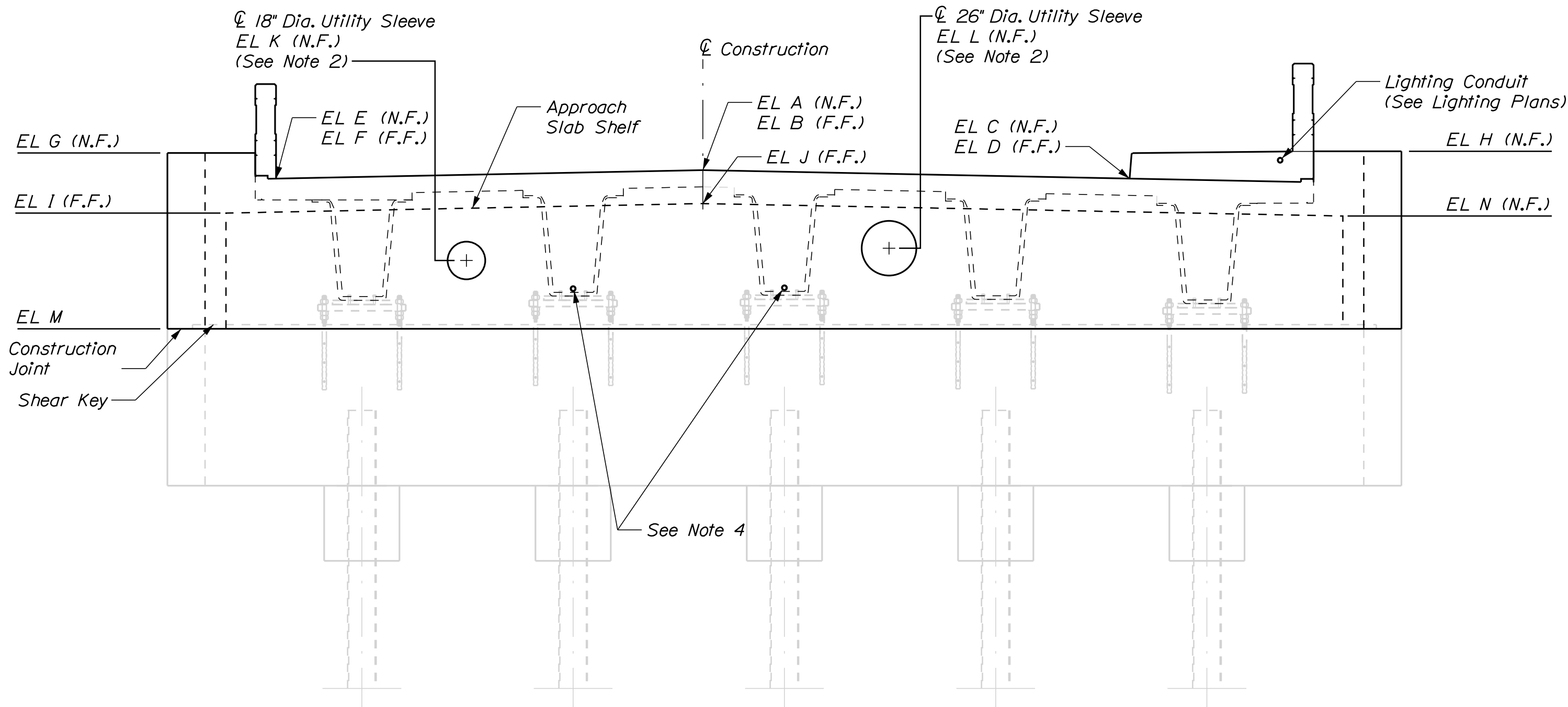
*Costs shall be incidental to the related Contract Items



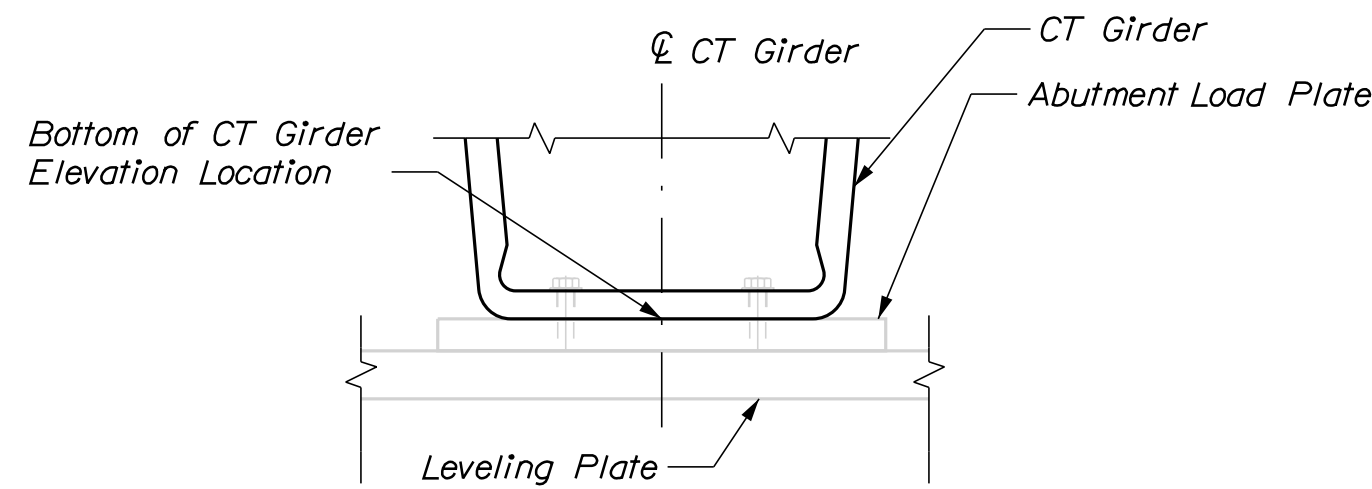
STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2251(200) & STP-2251(100)	SIGNATURE		DATE
	P.E. NUMBER		DATE
	BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02
LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY		SHEET NUMBER D39 OF D77	



TYPICAL ABUTMENT PLAN
(Bridge No. 1, Abutment No. 1 shown, others similar)



TYPICAL ABUTMENT ELEVATION
(Bridge No. 1, Abutment No. 1 shown, others similar)



BOTTOM OF GIRDER ELEVATIONS AT CL OF BEARING (FT)					
	G1	G2	G3	G4	G5
BR. 1, ABUT. 1	102.16	102.33	102.50	102.46	102.29
BR. 1, ABUT. 2	102.93	103.09	103.26	103.22	103.06
BR. 2, ABUT. 1	103.64	103.80	103.97	103.93	103.77
BR. 2, ABUT. 2	105.14	105.31	105.48	105.44	105.27

ABUTMENT ELEVATIONS (FT)				
POINTS	BR. 1, ABUT. 1	BR. 1, ABUT. 2	BR. 2, ABUT. 1	BR. 2, ABUT. 2
A	107.57	108.32	109.04	110.53
B	107.56	108.34	109.03	110.56
C	107.23	107.98	108.70	110.19
D	107.22	108.00	108.69	110.22
E	107.23	107.98	108.70	110.19
F	107.22	108.00	108.69	110.22
G	108.25	109.00	109.73	111.21
H	108.30	109.08	109.78	111.30
I	105.84	106.62	107.32	108.84
J	106.22	107.00	107.70	109.22
K	103.93	104.76	105.40	106.90
L	104.50	105.26	105.97	107.47
M	101.16	101.93	102.64	104.14
N	105.71	106.49	107.19	108.71

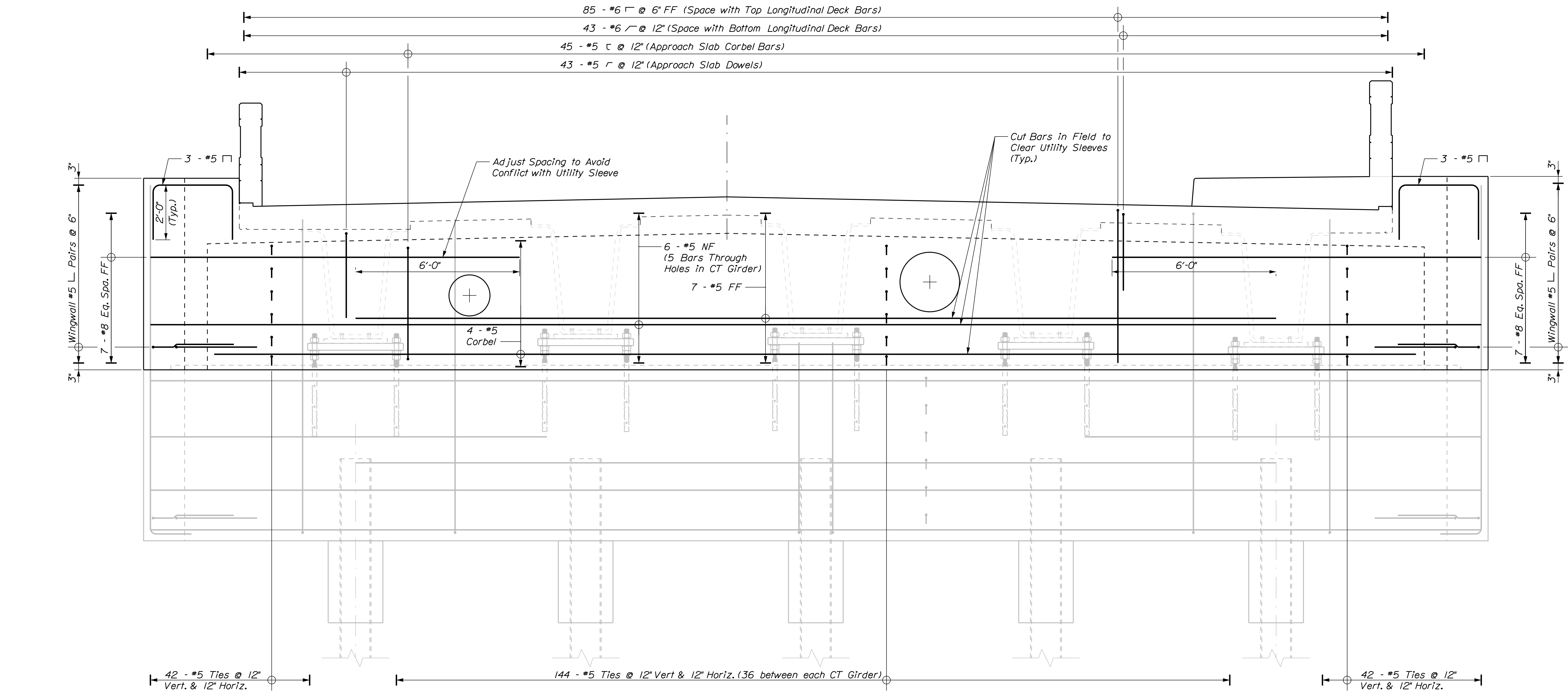
NOTES

1. Typical abutment details for the anticipated completed abutment are shown for clarity; however, work previously completed as part of ERP #6 is shown in gray for completeness.
2. All abutment elevations are shown at center line of bearing, unless otherwise noted.
3. All elevations shown are in feet, unless otherwise noted.
4. 2" Schedule 80 PVC Conduit for instrumentation shall be installed in the CT Girder infill regions and through the abutment stem at Bridge 2, Abutment 2 in Girders 3 & 4. Locations of conduit shall be coordinated in the field with the University of Maine.

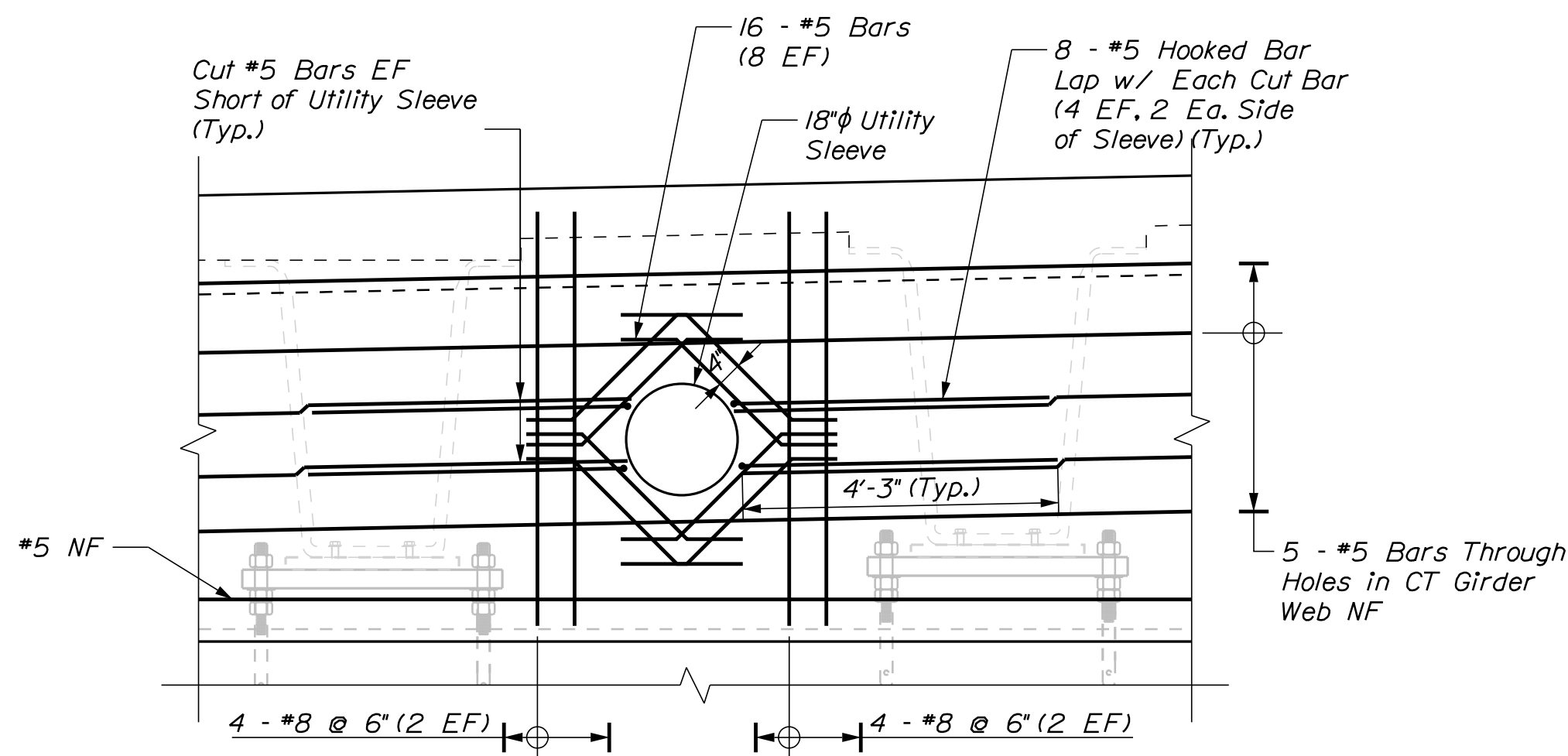
KEY:

N.F. = Near Face
F.F. = Far Face
E.F. = Each Face

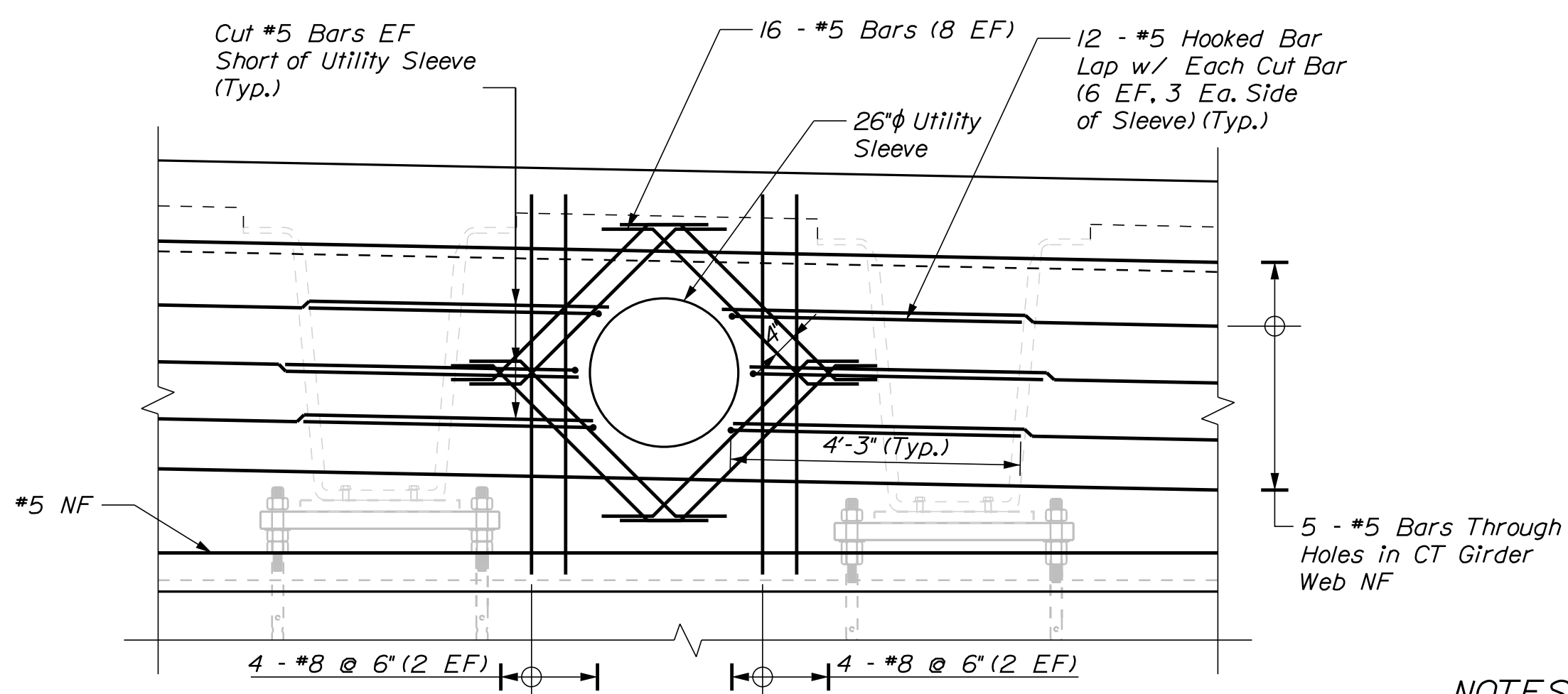




BRIDGE NO. 1 TYPICAL ABUTMENT REINFORCEMENT ELEVATION



BRIDGE NO. 1 SEWER MAIN BLOCKOUT REINFORCING DETAIL
(NF Shown, FF Similar Plus added Reinforcement in Wingwall)



BRIDGE NO. 1 WATER MAIN BLOCKOUT REINFORCING DETAIL
(NF Shown, FF Similar)

Minimum Rebar Lap Splice Lengths (Low Carbon, Chromium):

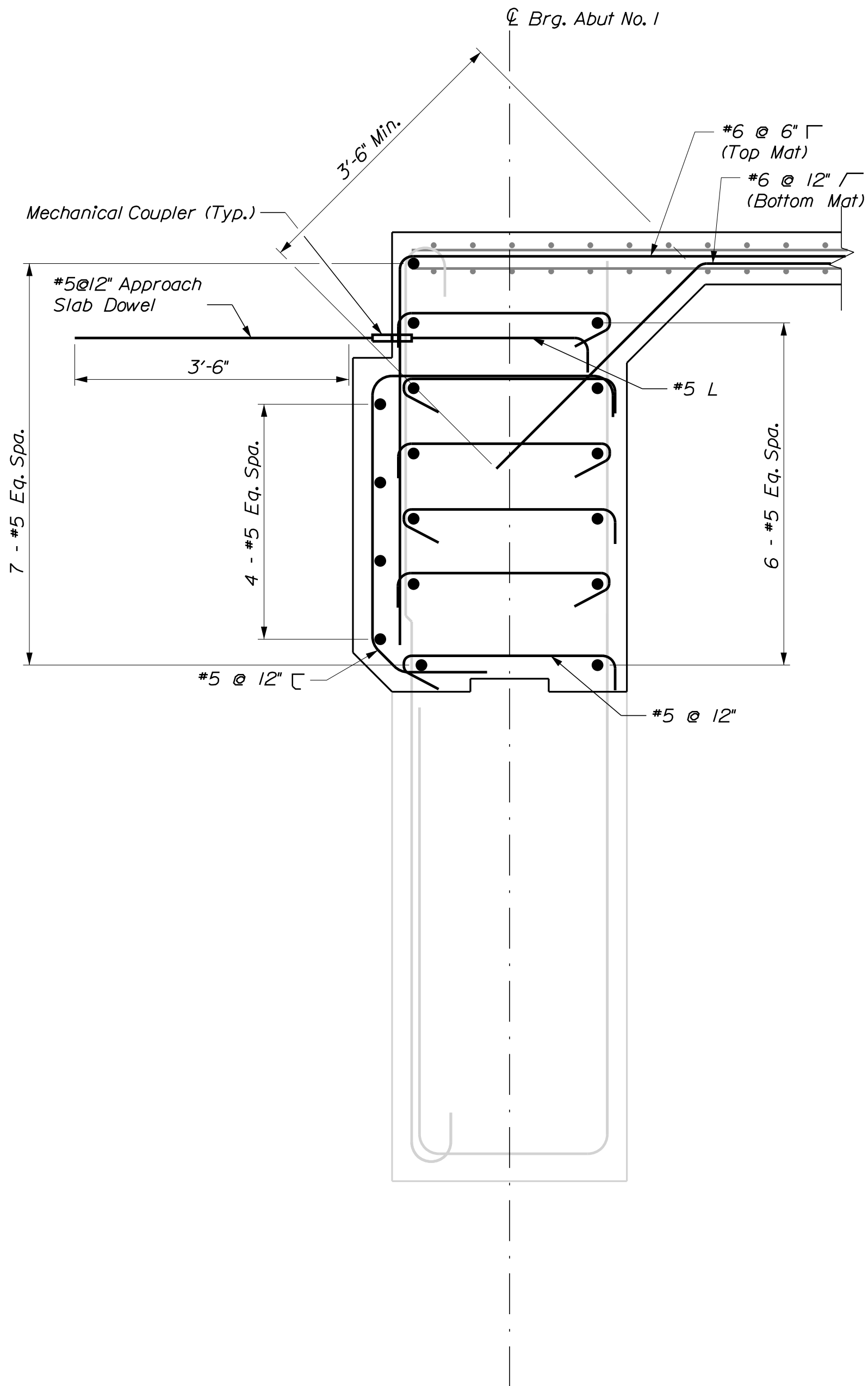
#5 Bar: 4'-3"
#6 Bar: 5'-1"

NOTES

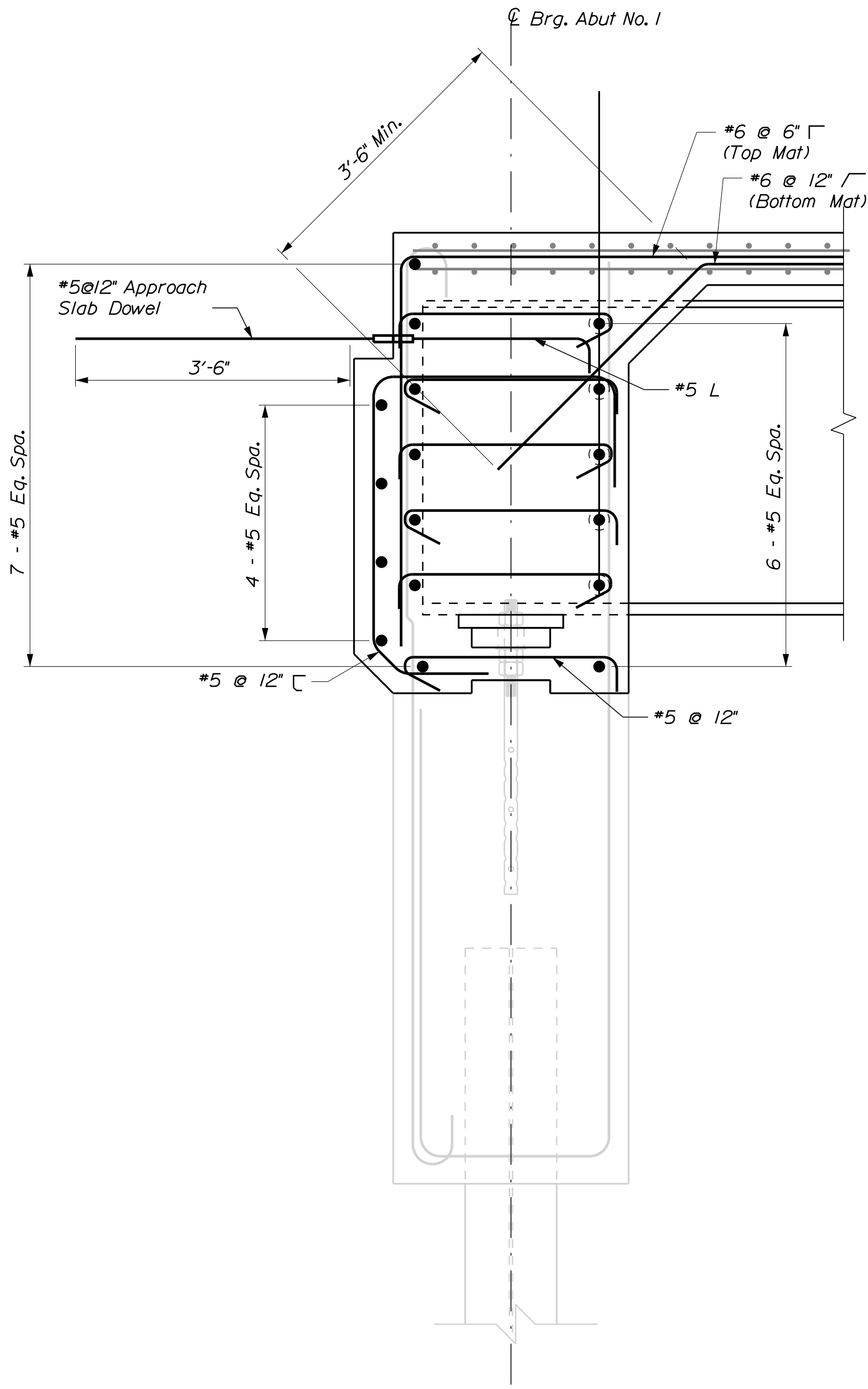
- Lower portion of abutment stem was previously constructed in ERP #6.
- All bars are low carbon, chromium unless otherwise noted.



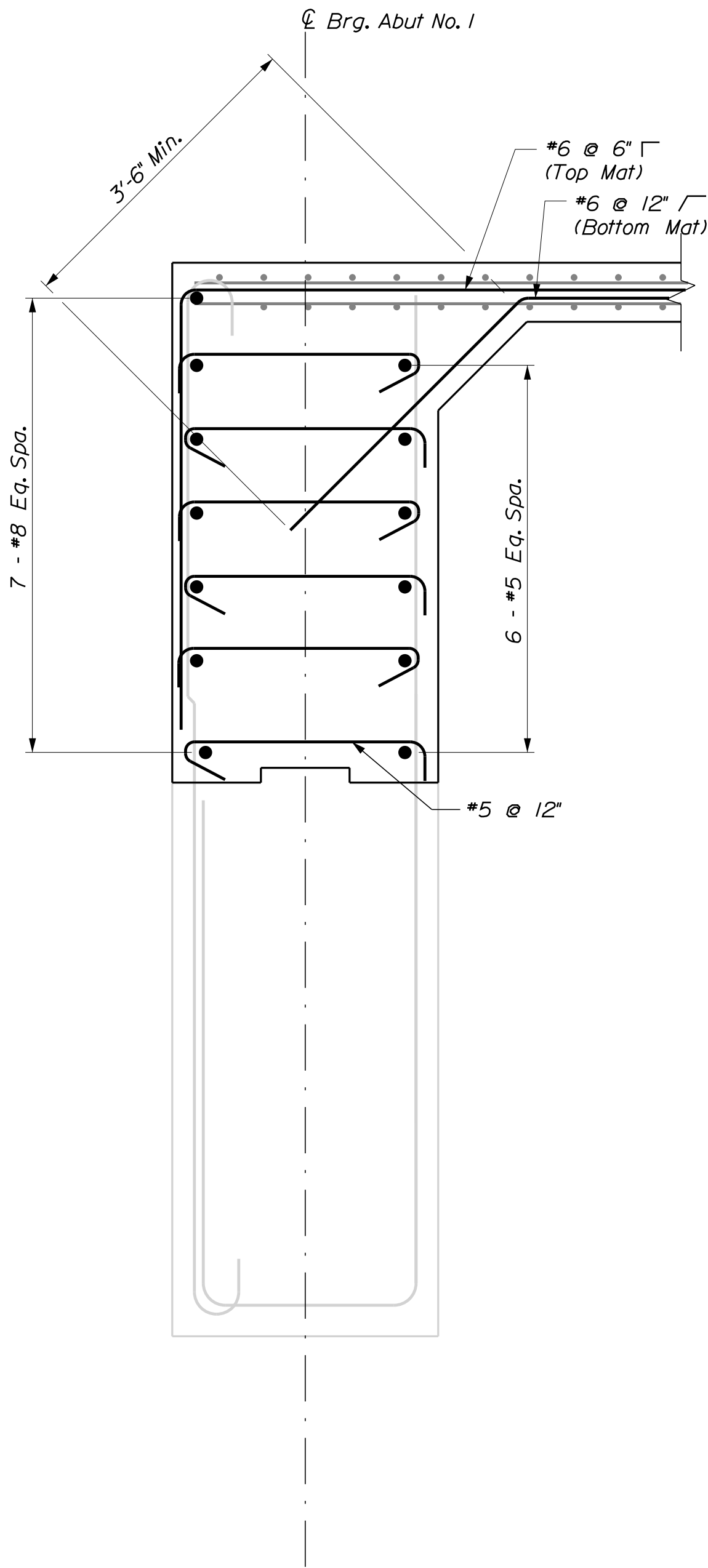
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02		BRIDGE PLANS	
LLEWELLYN ESTES BRIDGES		STILLWATER RIVER		PENOBSCOT COUNTY		OLD TOWN		BRIDGE 1 ABUTMENT		REINFORCING ELEVATION	
PROJ. MANAGER		GERALD DOSTIE		BY		DATE		SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		G. ERICKSON		W. GERHOLD		9/2025					
CHECKED-REVIEWED		T. POLSON		T. POLSON		9/2025					
DESIGN-DETAILED											
REVISIONS 1											
REVISIONS 2											
REVISIONS 3											
REVISIONS 4											
FIELD CHANGES											
SHEET NUMBER		D41		OF D77							



BRIDGE NO. 1 TYPICAL ABUTMENT SECTION
BETWEEN GIRDER/PILES



BRIDGE NO. 1 TYPICAL ABUTMENT SECTION
AT INTERIOR GIRDER/PILES



BRIDGE NO. 1 TYPICAL ABUTMENT SECTION
CANTILEVER

NOTES

1. Lower portion of abutment stem was constructed in ERP#6 and is shown in gray for clarity.



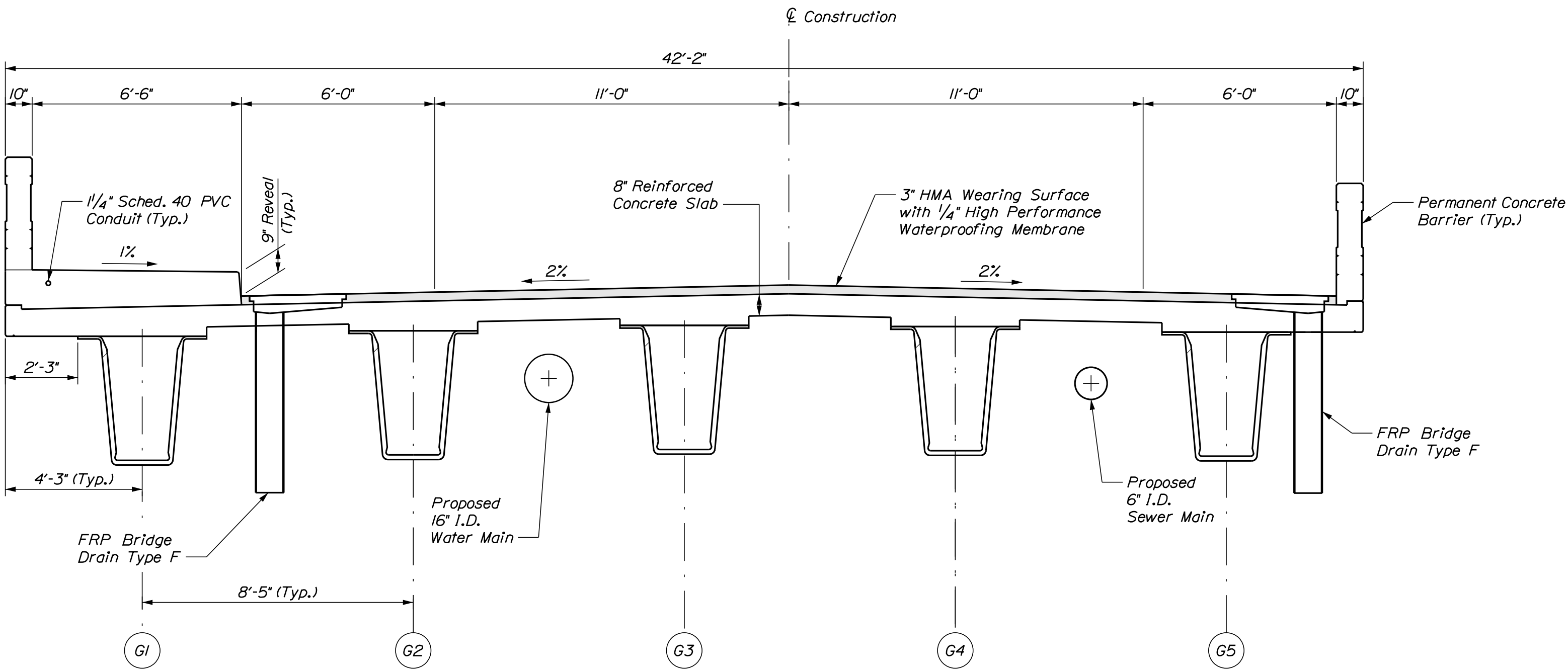
LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY BRIDGE 1 ABUTMENT REINFORCING SECTIONS	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02		BRIDGE PLANS	
	PROJ. MANAGER	GERALD DOSTIE	BY	DATE	SIGNATURE		P.E. NUMBER		DATE	
	DESIGN-DETAILED	G. ERICKSON	W. GERHOLD	9/2025						
		CHECKED-REVIEWED	T. POLSON	9/2025						
		DESIGN-DETAILED								
		REVISIONS 1								
		REVISIONS 2								
		REVISIONS 3								
		REVISIONS 4								
		FIELD CHANGES								

SHEET NUMBER

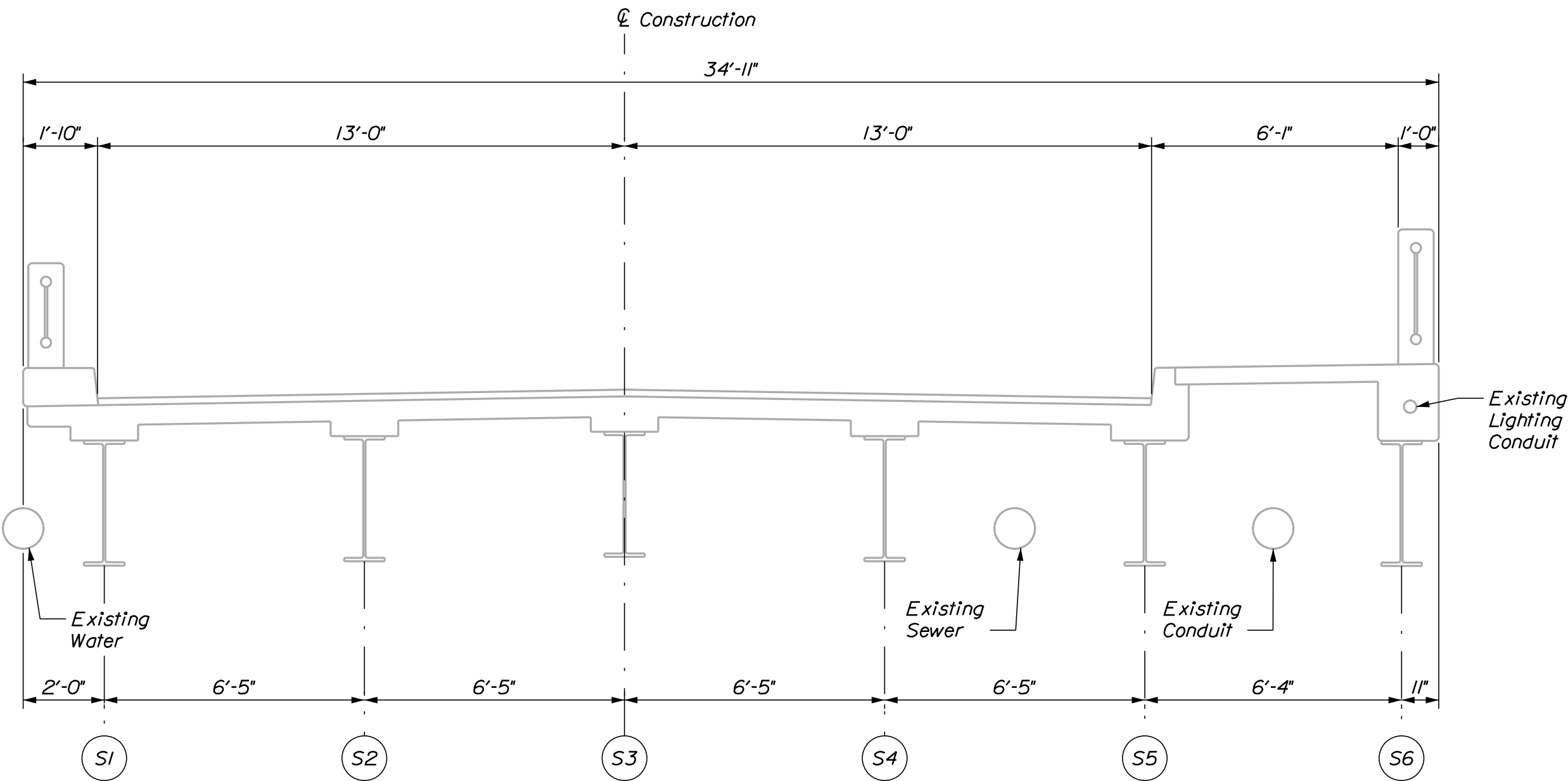
D42

OF D77





BRIDGE NO. 1
PROPOSED TYPICAL SECTION

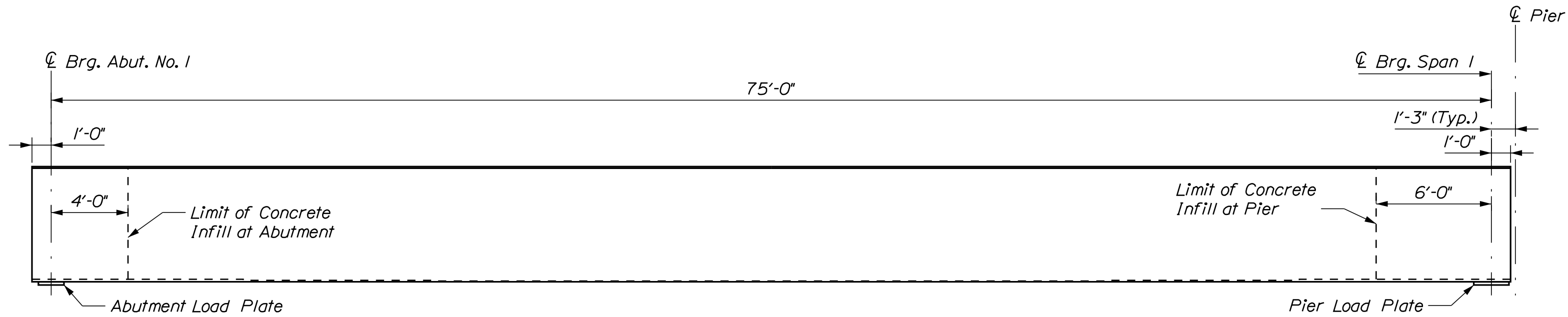
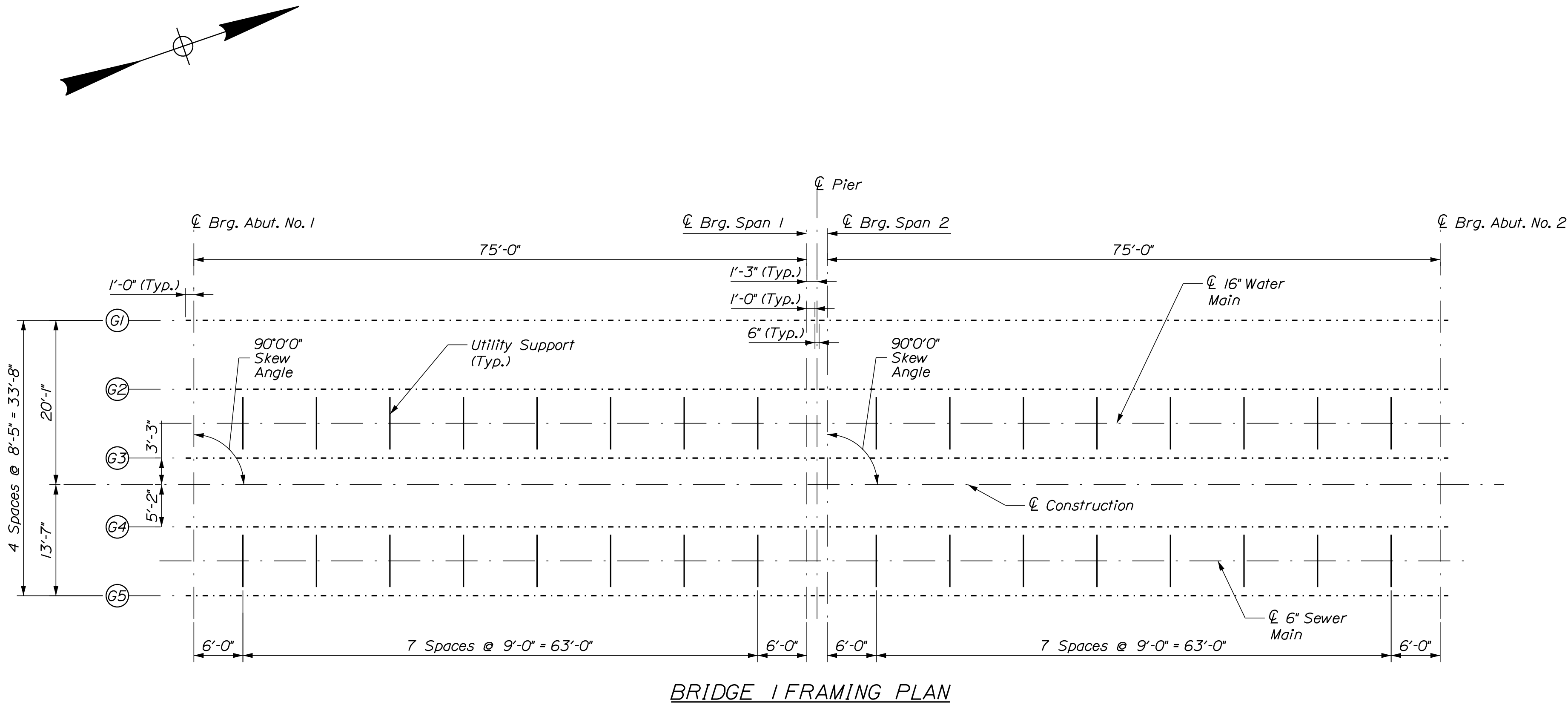


EXISTING TYPICAL SECTION
Scale: 3/8" = 1'-0"



PROJ. MANAGER	GERALD DOSTIE	BY	DATE
DESIGNED-DETAILED	G. ERICKSON	W. GERHOLD	9/2025
CHECKED-REVIEWED	T. POLSON	T. POLSON	9/2025
DESIGNED-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE



BRIDGE NO.1 - CT GIRDER ELEVATION
(Span 1 Shown, Span 2 Symmetric)

CALCULATED DEFLECTIONS (INCHES)											
	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
FRP Dead Load	0	0.15	0.29	0.39	0.45	0.48	0.45	0.39	0.29	0.15	0
Fluid Concrete Dead Load_a	0	1.00	1.90	2.61	3.06	3.22	3.06	2.61	1.90	1.00	0
Fluid Concrete Dead Load_b	0	0.20	0.33	0.40	0.44	0.45	0.44	0.40	0.33	0.20	0
Superimposed Dead Load	0	0.17	0.31	0.43	0.49	0.52	0.49	0.43	0.31	0.17	0
Wearing Surface Dead Load	0	0.11	0.21	0.28	0.32	0.34	0.32	0.28	0.21	0.11	0
Creep and Shrinkage	0	0.60	1.13	1.53	1.78	1.87	1.78	1.53	1.13	0.60	0
TOTAL	0.00	2.23	4.17	5.63	6.56	6.87	6.56	5.63	4.17	2.23	0.00

CALCULATED CAMBER (INCHES)											
	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
Design Camber	0	2 1/4	4 3/16	5 5/8	6 9/16	6 7/8	6 9/16	5 5/8	4 3/16	2 1/4	0

SELF WEIGHT DEFLECTED CAMBER (INCHES)											
	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
Self-Weight Deflected Camber	0	2 1/16	3 7/8	5 1/4	6 1/8	6 3/8	6 1/8	5 1/4	3 7/8	2 1/16	0

SPAN 1 BOTTOM OF SLAB ELEVATIONS (FEET)											
Girder	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
G1	106.50	106.71	106.90	107.05	107.16	107.22	107.23	107.20	107.12	107.01	106.87
G2	106.67	106.88	107.06	107.22	107.32	107.39	107.40	107.37	107.29	107.18	107.04
G3	106.83	107.04	107.23	107.38	107.49	107.55	107.57	107.53	107.46	107.34	107.21
G4	106.80	107.01	107.19	107.35	107.45	107.52	107.53	107.50	107.42	107.31	107.17
G5	106.63	106.84	107.03	107.18	107.29	107.35	107.36	107.33	107.25	107.14	107.00

SPAN 2 BOTTOM OF SLAB ELEVATIONS (FEET)											
Girder	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
G1	106.88	107.10	107.28	107.43	107.54	107.61	107.62	107.58	107.51	107.40	107.26
G2	107.05	107.26	107.45	107.60	107.71	107.77	107.79	107.75	107.68	107.56	107.43
G3	107.22	107.43	107.62	107.77	107.88	107.94	107.96	107.92	107.85	107.73	107.60
G4	107.18	107.39	107.58	107.73	107.84	107.90	107.92	107.88	107.81	107.69	107.56
G5	107.01	107.23	107.41	107.56	107.67	107.74	107.75	107.71	107.64	107.53	107.39

SHEET NUMBER

D45

OF D77

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
OLD TOWN PENOBSCOT COUNTY
BRIDGE 1 FRAMING PLAN
AND CT GIRDER ELEVATION

PROJ. MANAGER	GERALD DOSTIE	BY	DATE
DESIGN-DETAILED	G. ERICSON	W. GERHOLD	9/2025
CHECKED-REVIEWED	T. POLSON	T. POLSON	9/2025
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

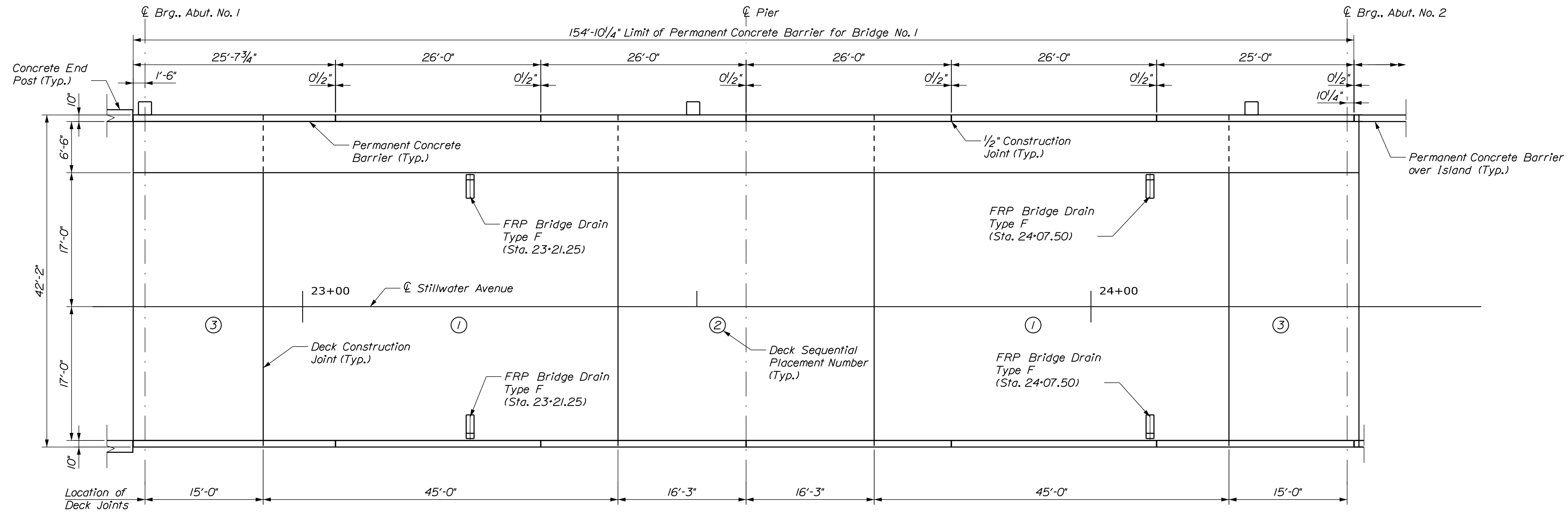
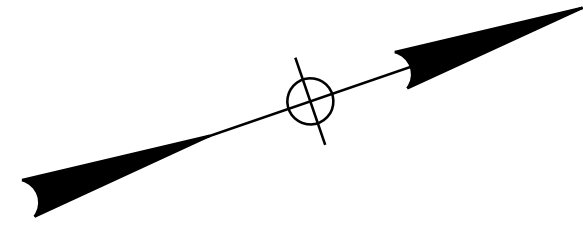
STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472 WIN 022512.02
BRIDGE NO. 2806 WIN 022511.02

BRIDGE PLANS



BRIDGE NO. 1 DECK & BARRIER LAYOUT

SUPERSTRUCTURE NOTES

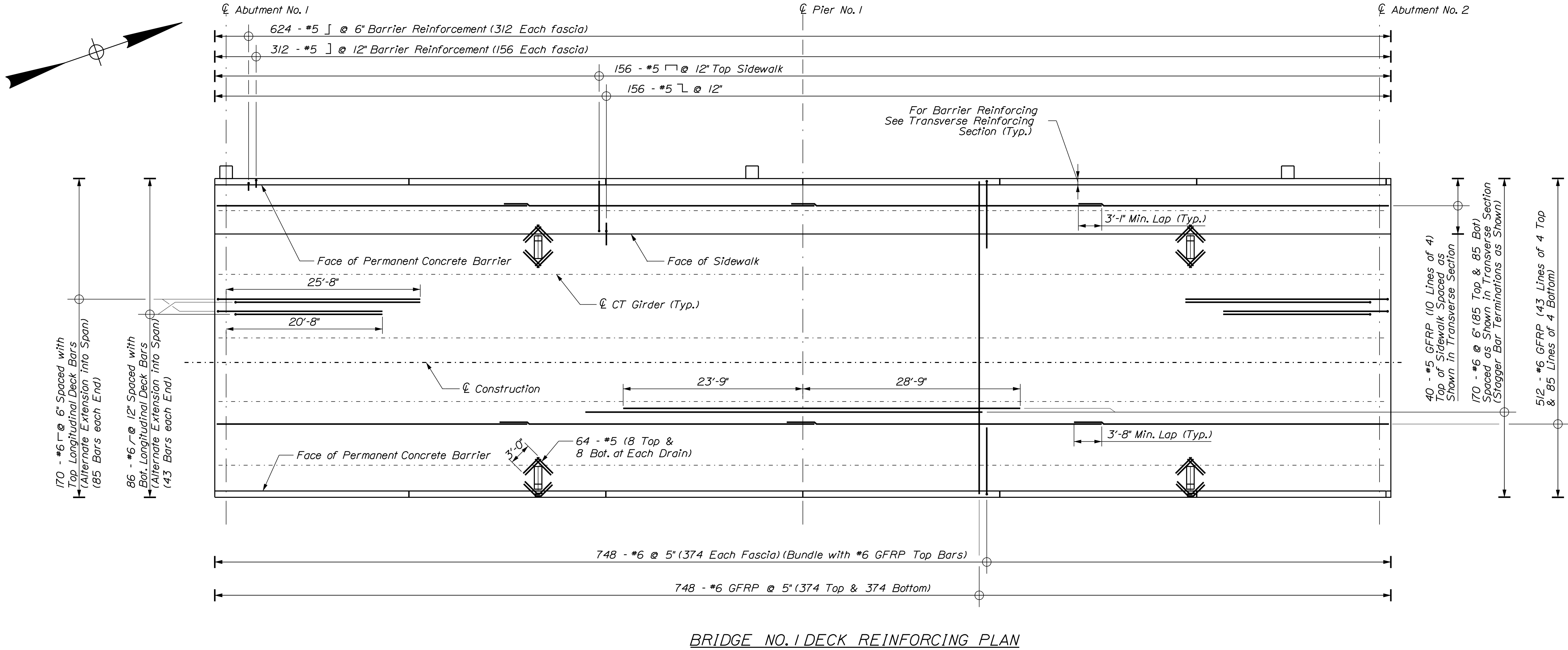
1. *The theoretical blocking used for design of the structure is 3 inch at the centerline of bearing of the abutments and piers. Refer to Standard Detail 502(03) for blocking details.*
2. *Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.*
3. *Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab and the barrier and slab.*
4. *Deck placement shall be performed in the sequence noted on the plan, except as follows: it is the Contractor's option to pour sequence 2 and 3 at separate times or simultaneously - if poured simultaneously, all concrete shall remain plastic until the entire placement is completed. Placement of the different locations within the same step shall be continuous such that concrete remains plastic until all placement at all locations within the same step is completed. A minimum of 5 days shall elapse between successive partial placements. The superstructure slab concrete placement sequence shall be approved by the Resident.*
5. *Precast Concrete Deck Panels are not allowed on this project.*
6. *Adjust reinforcing to fit around the bridge drains in a manner approved by the Resident. Do not cut transverse reinforcing bars.*

	DESIGN-DETAILED	G. ERICKSON	9/2025
CHECKED-REVIEWED	T. POLSON	T. POLSON	9/2025
DESIGN-DETAILED2			
DESIGN-DETAILED3			
REVIEWS 1			
REVIEWS 2			
REVIEWS 3			
REVIEWS 4			
FIELD CHANGES			

OLD TOWN STILLWATER RIVER LEWELLEN ESLES BRIDGES

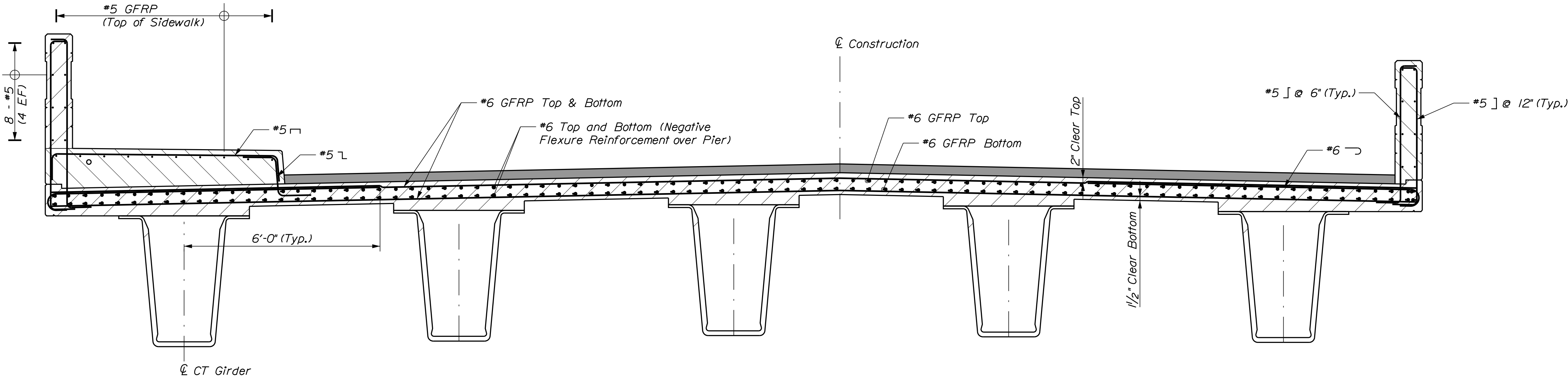
BRIDGE 1 DECK AND
BARRIER LAYOUT PLAN

SHEET NUMBER



PROJ. MANAGER	GERALD DOSTIE	BY	DATE
DESIGN-DETAILED	G. ERICKSON	W. GERHOLD	9/2025
CHECKED-REVIEWED	T. POLSON	T. POLSON	9/2025
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

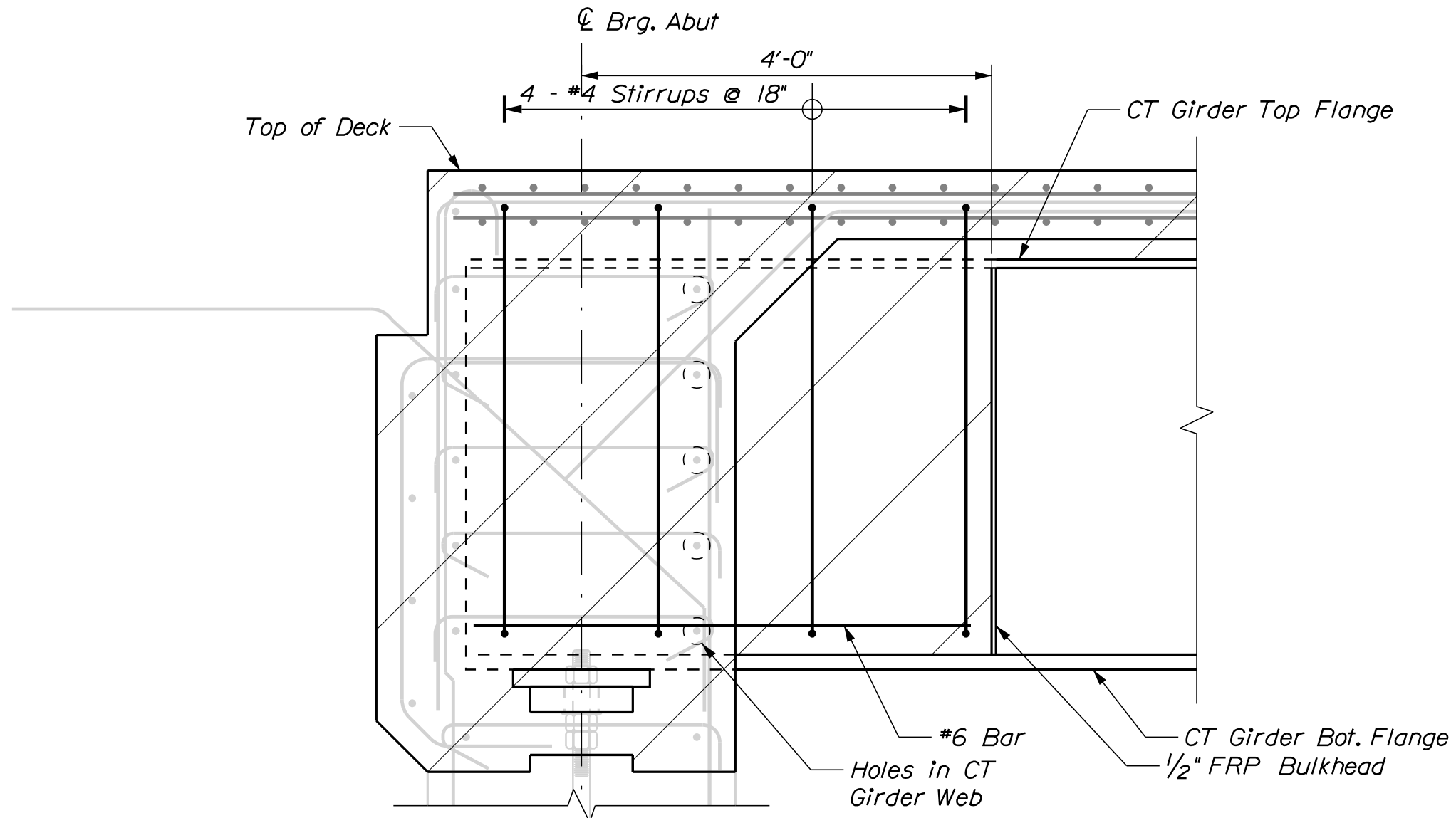
SIGNATURE	P.E. NUMBER	DATE



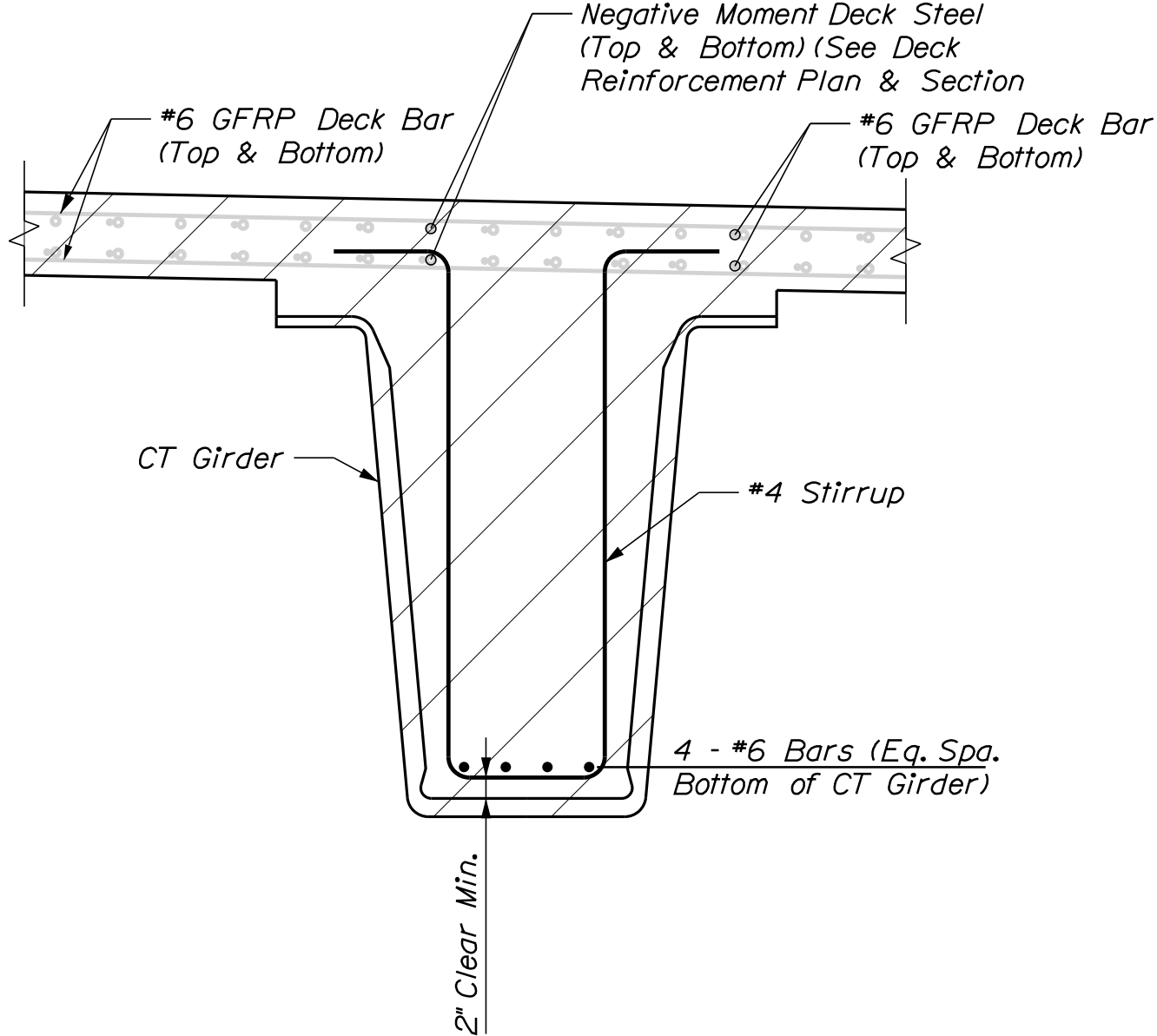
BRIDGE NO. 1 TRANSVERSE REINFORCING SECTION



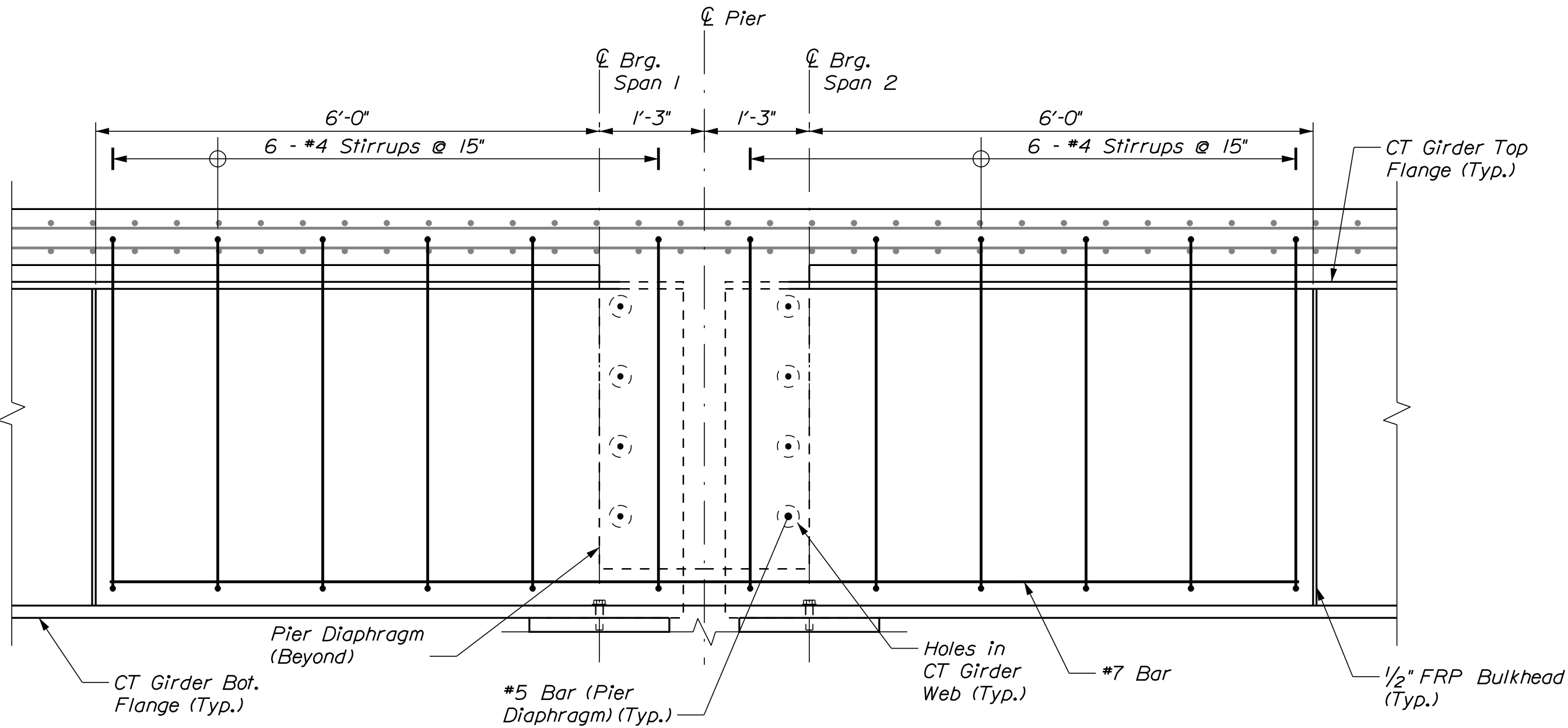
LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-2251(200) & STP-2251(100) BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02		BRIDGE PLANS
	SHEET NUMBER D48 OF D77		DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		DATE 9/2025 9/2025		SIGNATURE P.E. NUMBER DATE
	BRIDGE 1 DECK REINFORCEMENT SECTION						



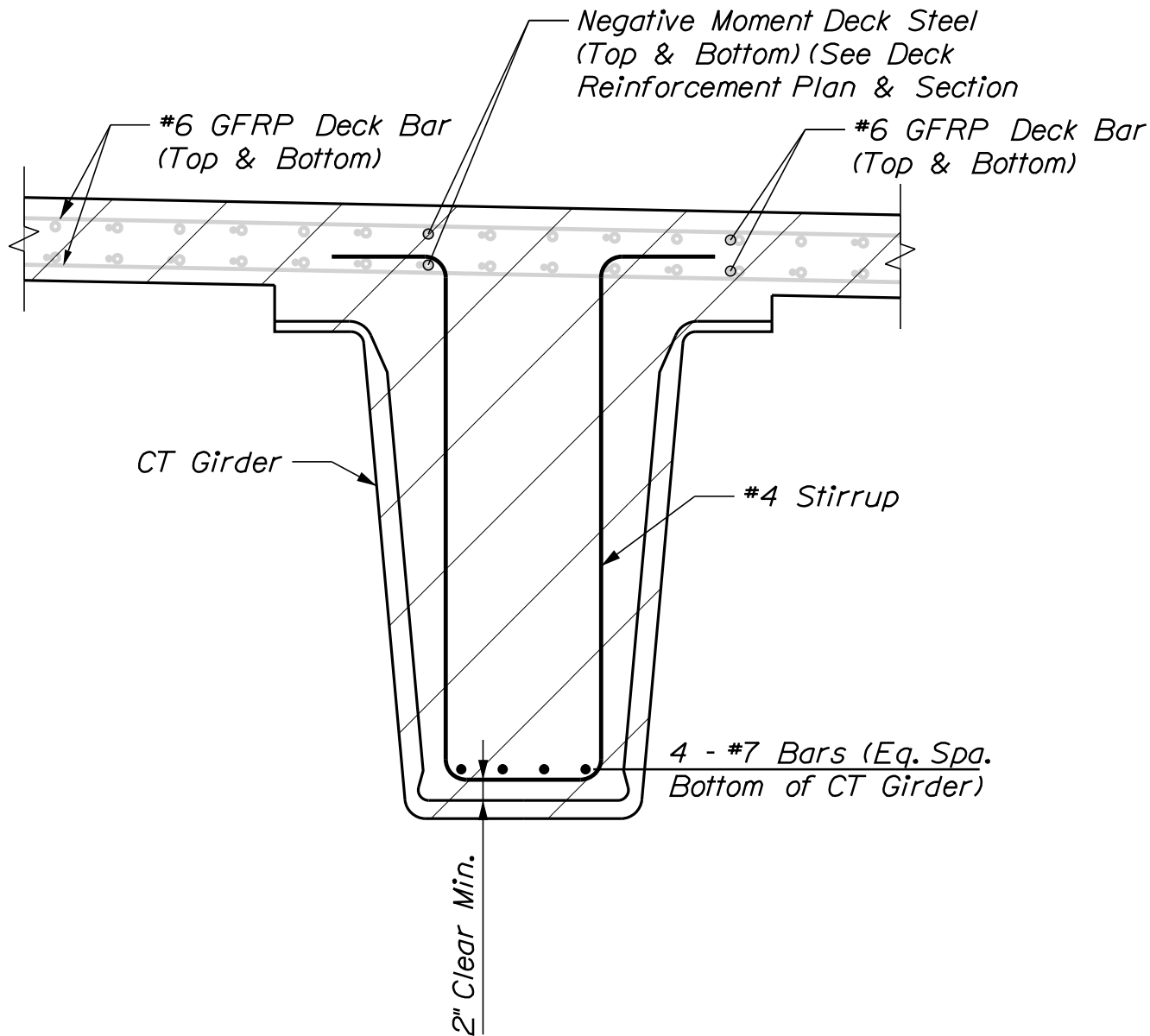
BRIDGE NO. 1 CT GIRDER INFILL LONGITUDINAL SECTION AT ABUTMENT
(Abutment 1 Shown, Abutment 2 Similar)
(Proposed Deck and Abutment Stem Reinforcement Shown Gray for Clarity)



BRIDGE NO. 1 CT GIRDER INFILL REINFORCEMENT SECTION AT ABUTMENT



BRIDGE NO. 1 CT GIRDER INFILL LONGITUDINAL SECTION AT PIER
(Proposed Deck Reinforcement Shown Gray for Clarity)



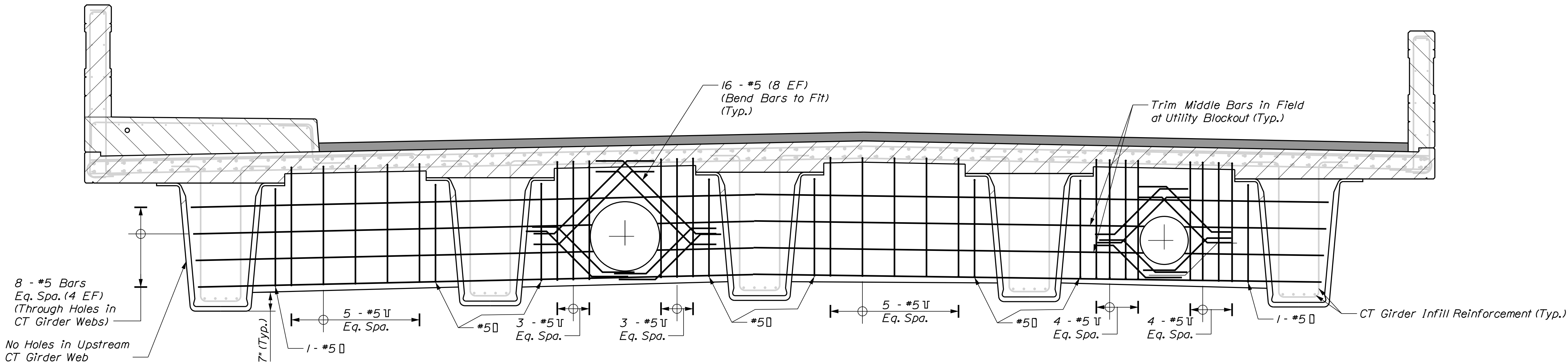
BRIDGE NO. 1 CT GIRDER INFILL REINFORCEMENT SECTION AT PIER

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)
BRIDGE NO. 1472 BRIDGE NO. 2806
WIN 022512.02 WIN 022511.02
BRIDGE PLANS

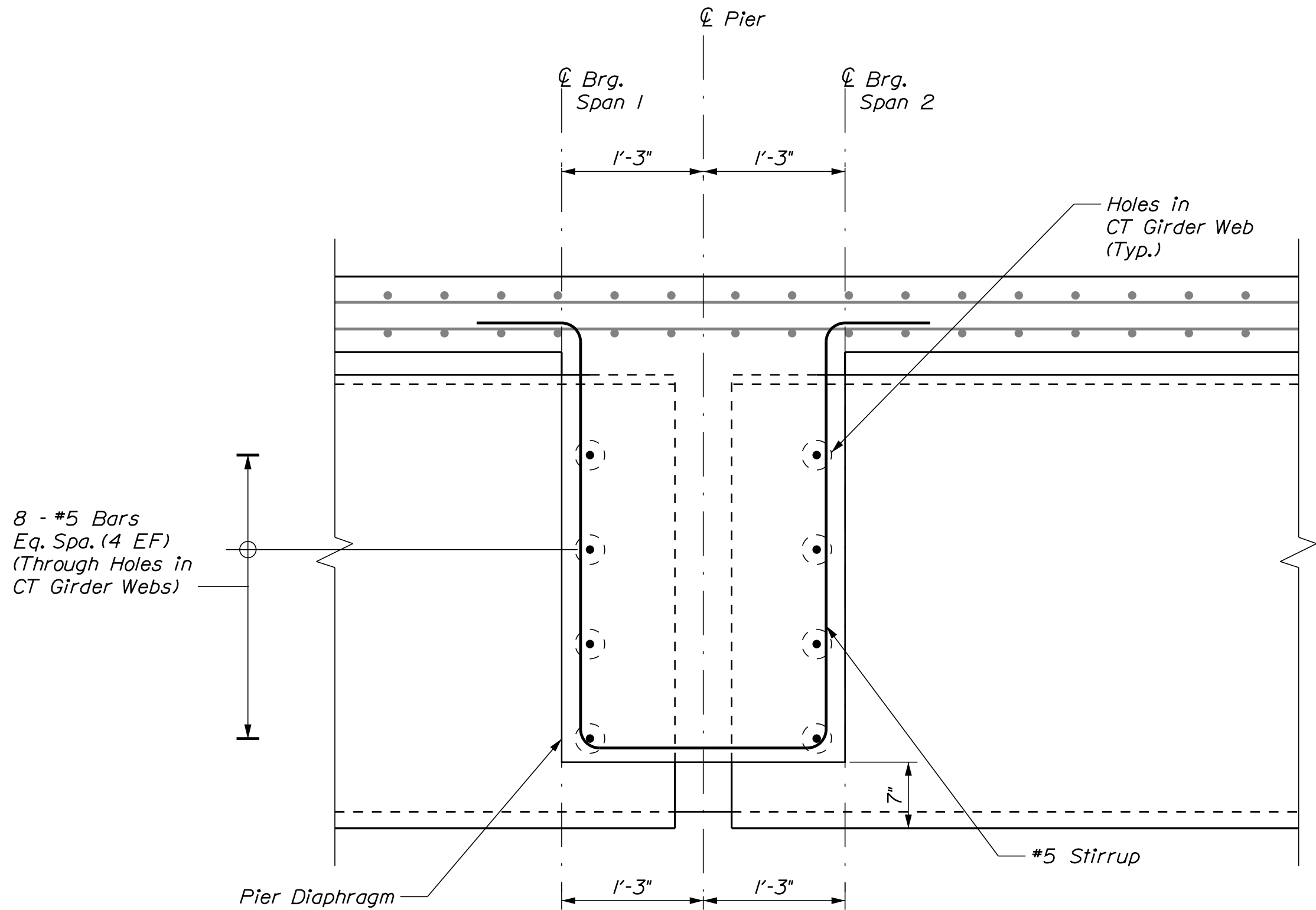
PROJ. MANAGER	GERALD DOSTE	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGNED-DETAILED	AIT	9/2025	T. POLSON	9/2025			
CHECKED-REVIEWED	AIT		AIT				
DESIGNS-DETAILED							
DESIGNS-1							
REVISIONS-2							
REVISIONS-3							
REVISIONS-4							
FIELD CHANGES							

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN
BRIDGE 1 CT GIRDER
INFILL DETAILS

SHEET NUMBER
D49
OF D77



BRIDGE NO. 1 PIER DIAPHRAGM REINFORCEMENT ELEVATION
(Deck Reinforcement and CT Girder Infill Reinforcement Shown in Gray
but Not Labeled for Clarity, see Applicable Reinforcement Detail Sheets)



BRIDGE NO. 1 PIER DIAPHRAGM REINFORCEMENT SECTION
(Proposed Deck Reinforcement Shown Gray for Clarity)

Bridge No. 1 Bottom of CT Girder Elevations (All Elevations in Feet)							
			Girder 1	Girder 2	Girder 3	Girder 4	Girder 5
Pier 1	Bottom of Girder	Span 1	102.54	102.71	102.88	102.84	102.67
		Span 2	102.55	102.72	102.89	102.85	102.68

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)
BRIDGE NO. 1472
BRIDGE NO. 2806

BRIDGE PLANS
WIN 022512.02
WIN 022511.02

PROJ. MANAGER
GERALD DOSTE

CHECKED
REVIEWED
DESIGNED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

BY
T. POLSON
AT

DATE
9/20/25
9/20/25

SIGNATURE
P.E. NUMBER
DATE

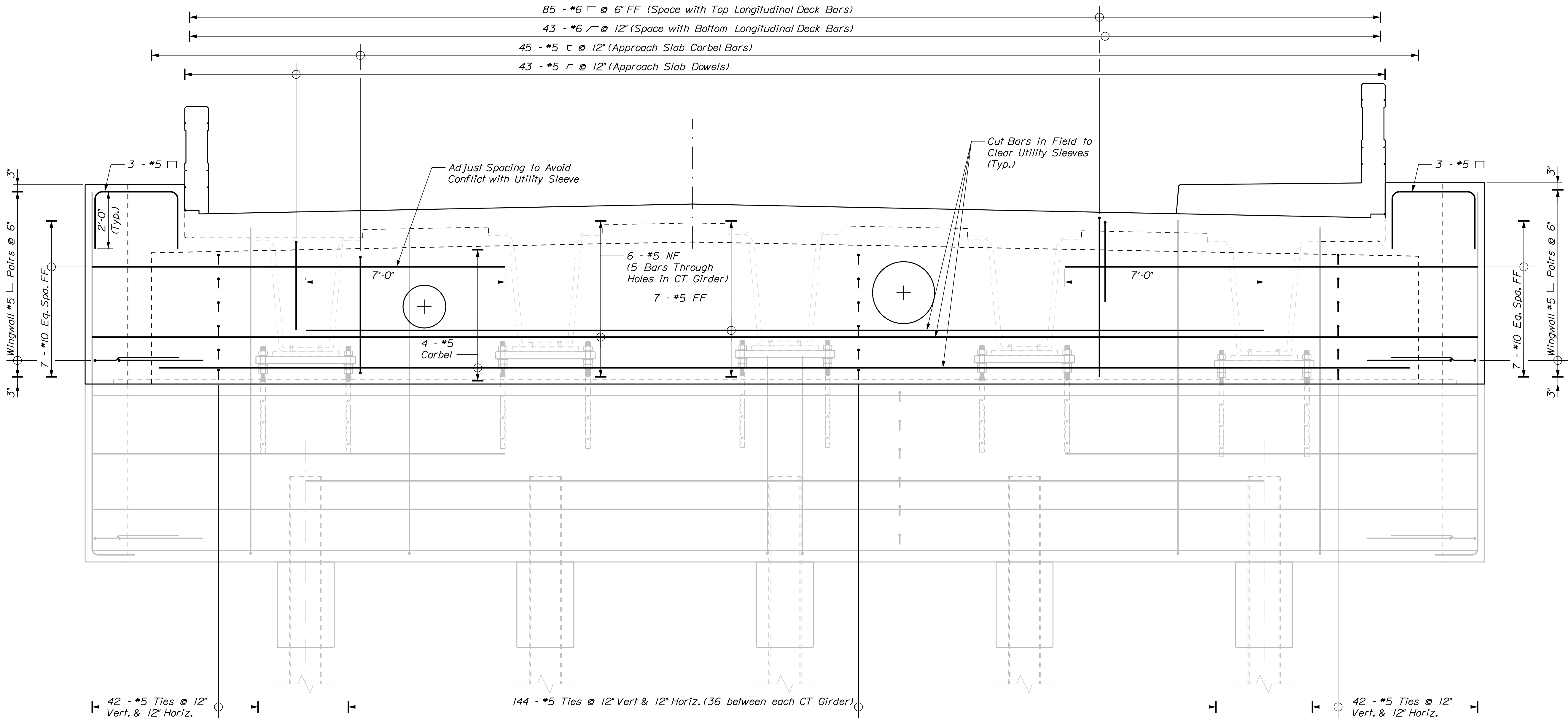
LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
OLD TOWN
PENOBSCOT COUNTY

BRIDGE 1 PIER DIAPHRAGM
REINFORCEMENT

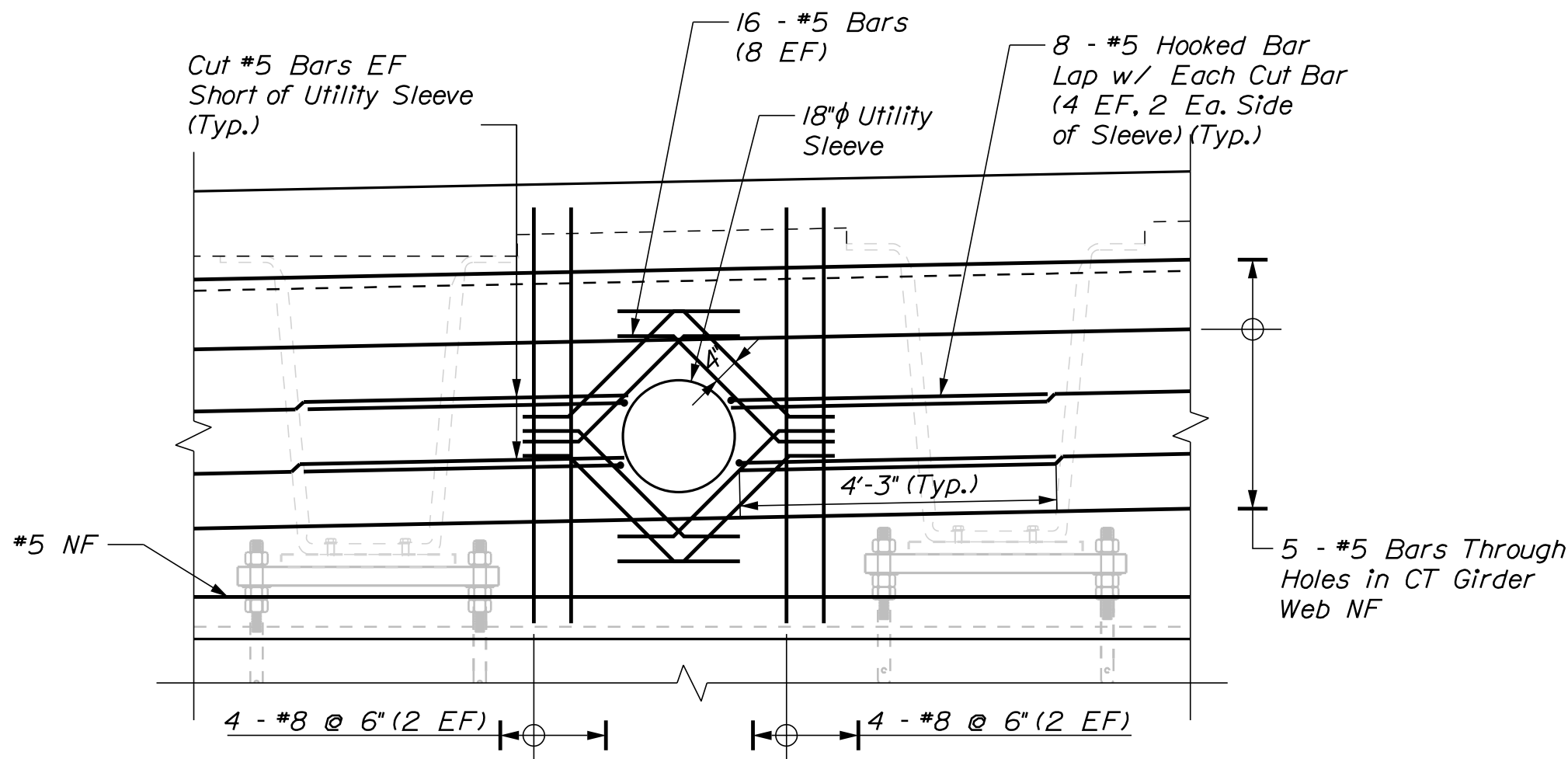
SHEET NUMBER

D50

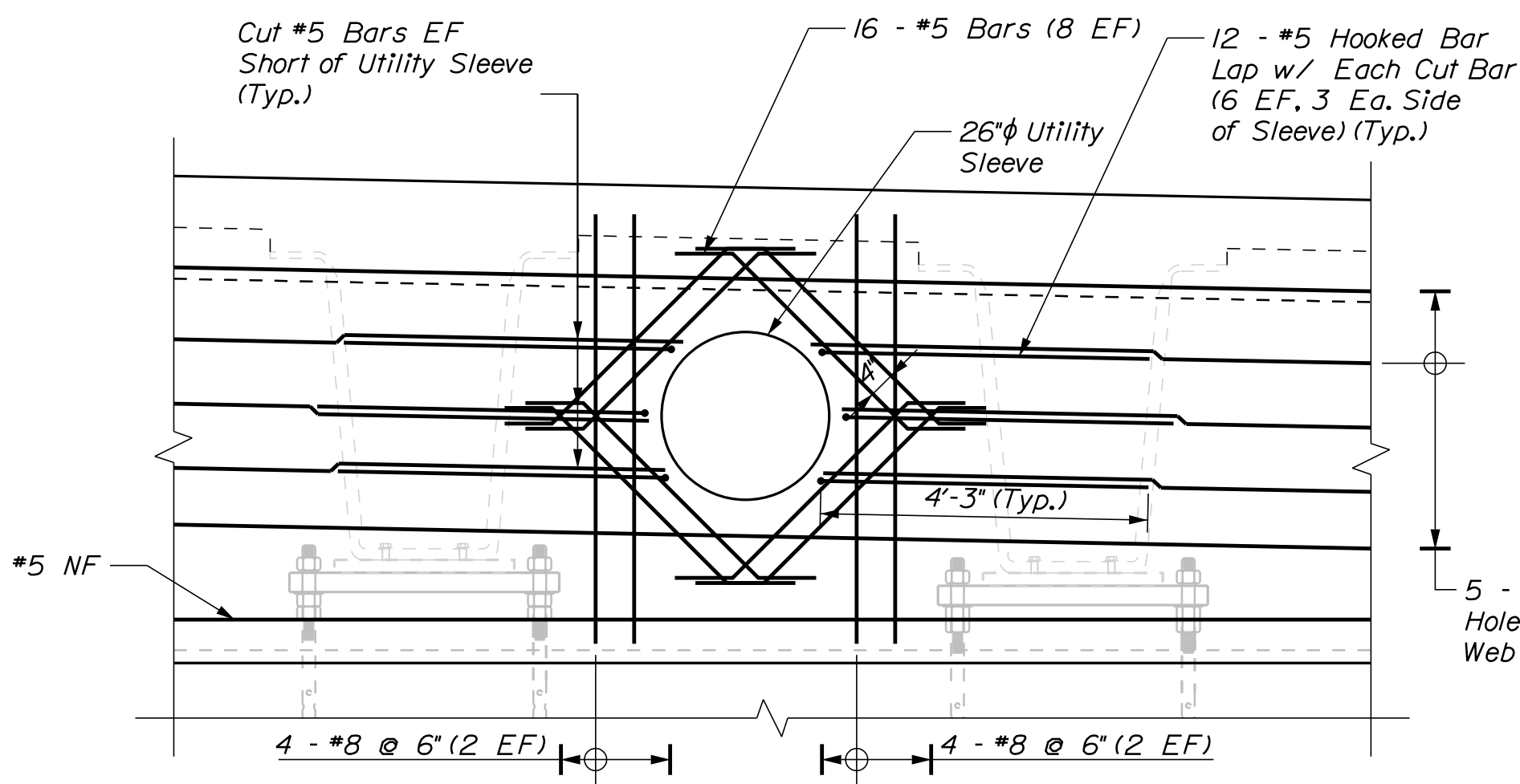
D77



BRIDGE NO. 2 TYPICAL ABUTMENT REINFORCEMENT ELEVATION



BRIDGE NO. 2 SEWER MAIN BLOCKOUT REINFORCING DETAIL
(NF Shown, FF Similar Plus added Reinforcement in Wingwall)



BRIDGE NO. 2 WATER MAIN BLOCKOUT REINFORCING DETAIL
(NF Shown, FF Similar)

Minimum Rebar Lap Splice Lengths (Low Carbon, Chromium):

#5 Bar: 4'-3"
#6 Bar: 5'-1"

NOTES

1. Lower portion of abutment stem was previously constructed in ERP #6.
2. All bars are low carbon, chromium unless otherwise noted.

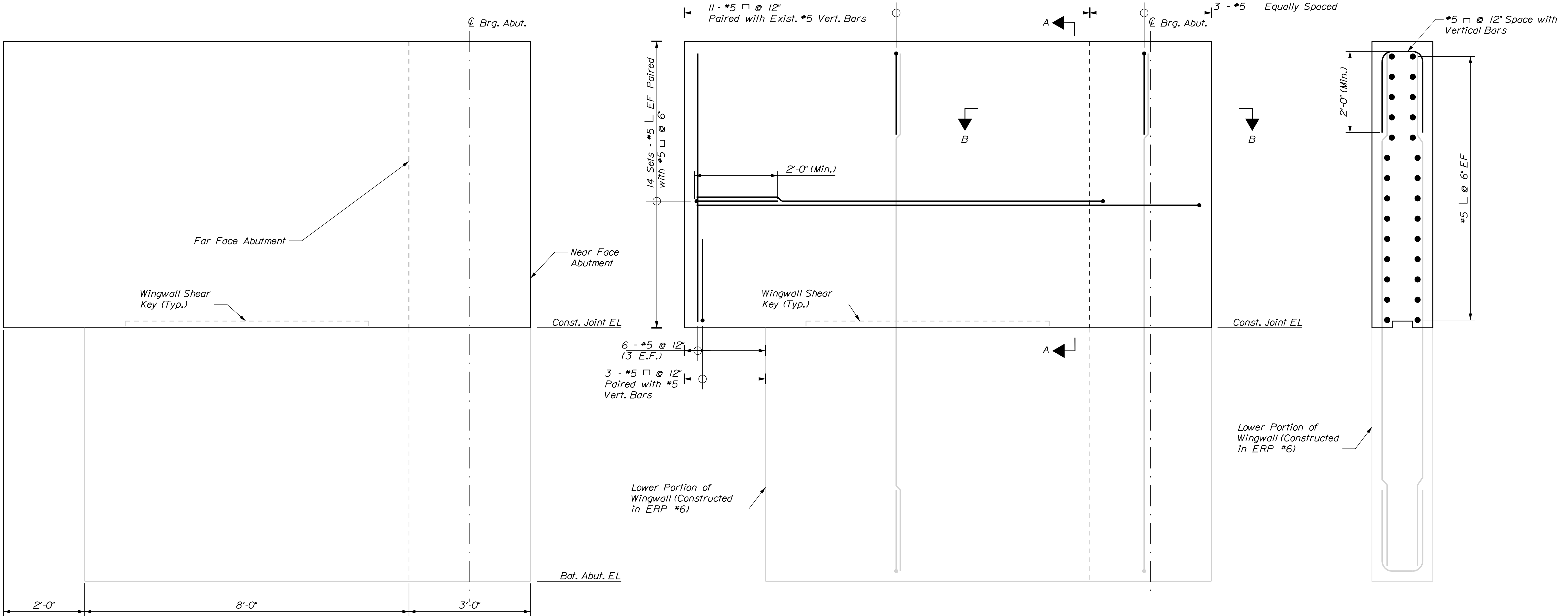


STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2251(200) & STP-2251(100)	PROJ. MANAGER				GERALD DOSTIE	BY	DATE
	DESIGN-Detailed				G. ERICKSON	W. GERHOLD	9/20/25
	CHECKED-REVIEWED				T. POLSON	T. POLSON	9/20/25
	DESIGN2-Detailed2						
	DESIGN3-Detailed3						
	REVISIONS 1						P.E. NUMBER
	REVISIONS 2						
	REVISIONS 3						
	REVISIONS 4						DATE
	FIELD CHANGES						
BRIDGE NO. 1472 BRIDGE NO. 2806 WIN 022512.02 WIN 022511.02 BRIDGE PLANS							

SHEET NUMBER D51 OF D77	LLEWELLYN ESTES BRIDGES STILLWATER RIVER PENOBSCOT COUNTY OLD TOWN
	BRIDGE 2 ABUTMENT REINFORCING ELEVATION



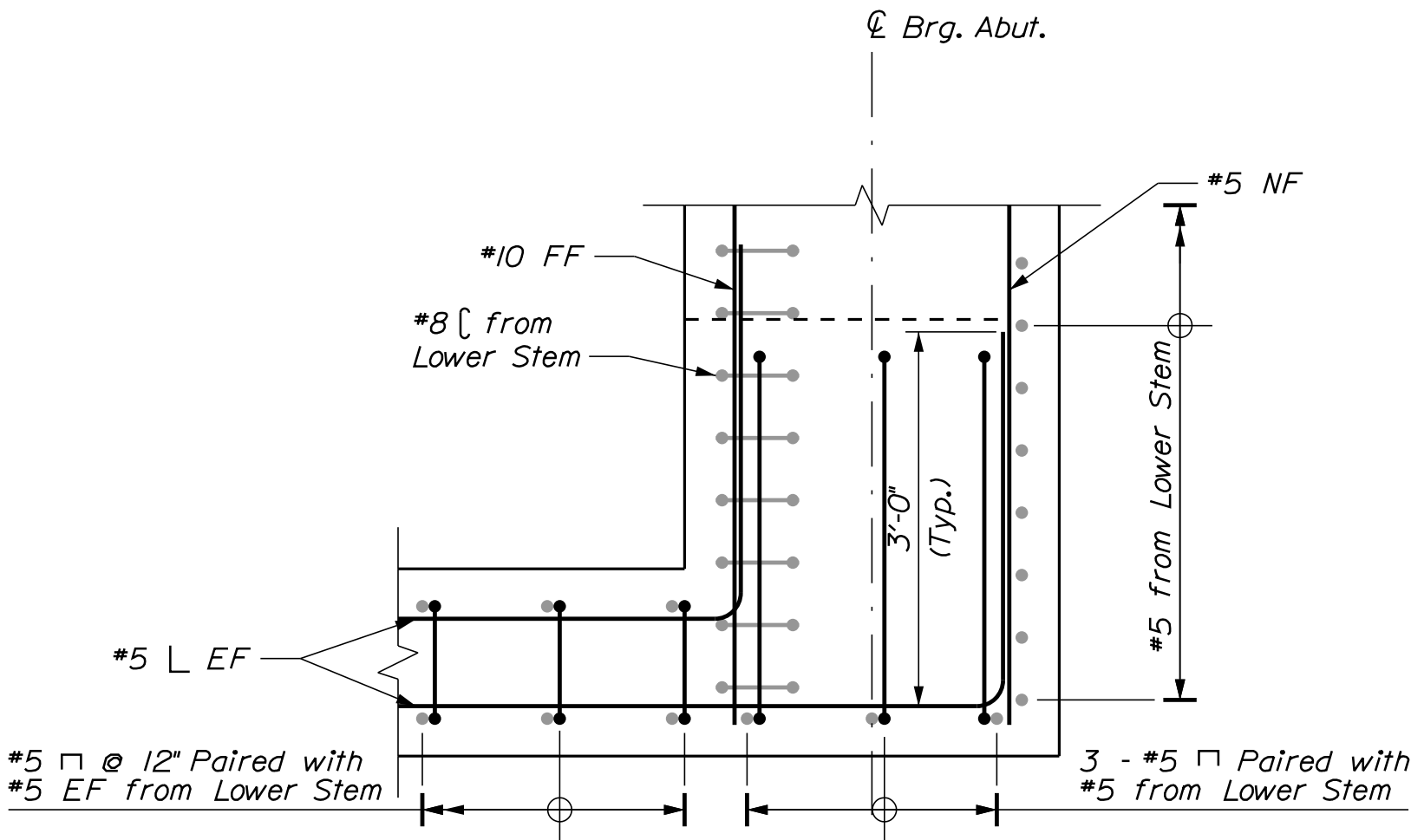
1. Lower portion of abutment stem was constructed in ERP#6 and is shown in gray for clarity.



BRIDGE NO. 2 TYPICAL WINGWALL ELEVATION

BRIDGE NO. 2 TYPICAL WINGWALL REINFORCEMENT ELEVATION
(Abutment Reinforcement not Shown for Clarity)

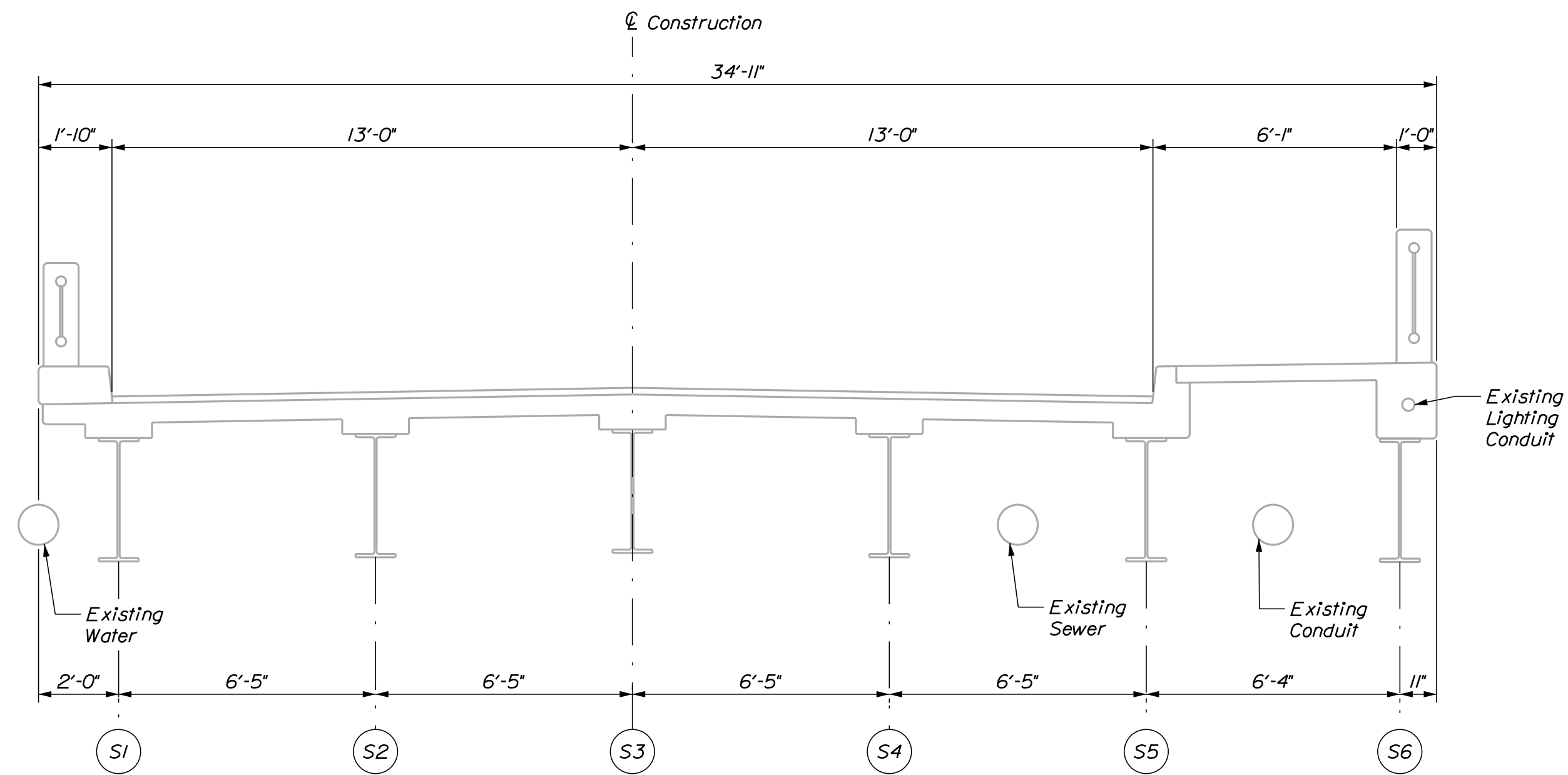
BRIDGE NO. 2 WINGWALL REINFORCEMENT
SECTION A-A



BRIDGE NO. 2 WINGWALL REINFORCEMENT
SECTION B-B



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806	
WIN 022512.02		WIN 022511.02	
BRIDGE PLANS			
PROJECT MANAGER		DESIGN-DETAILED	
CHECKED		DESIGN-REVIEWED	
BY		DATE	
T. POLSON		9/2025	
SIGNATURE		P.E. NUMBER	
DATE		FIELD CHANGES	
REVISIONS 1		REVISIONS 2	
REVISIONS 3		REVISIONS 4	
LLEWELLYN ESTES BRIDGES		PENOBSCOT COUNTY	
STILLWATER RIVER		OLD TOWN	
BRIDGE 2 WINGWALL		DETAILS & REINFORCING	
SHEET NUMBER		D53	
OF D77			

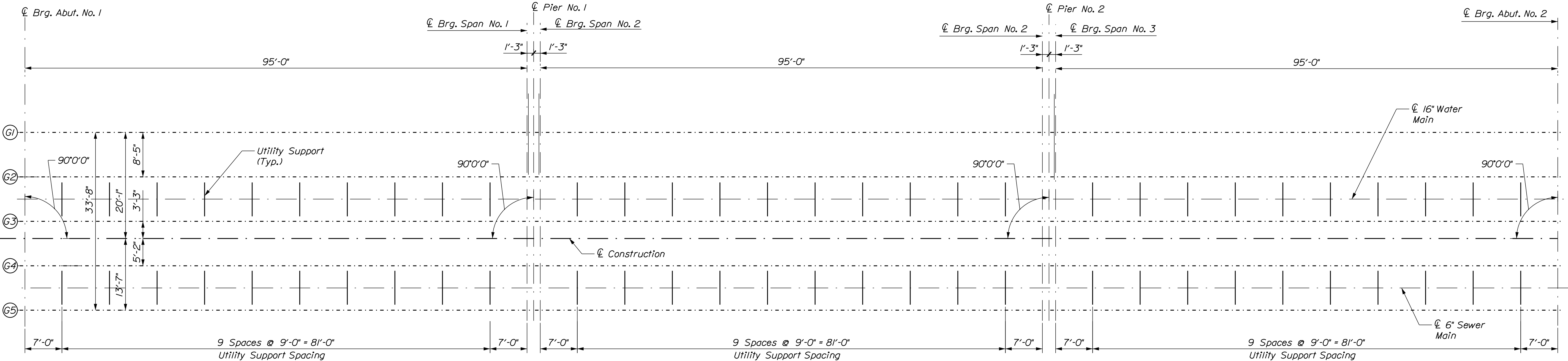


EXISTING TYPICAL SECTION
Scale: $\frac{3}{8}" = 1'-0"$

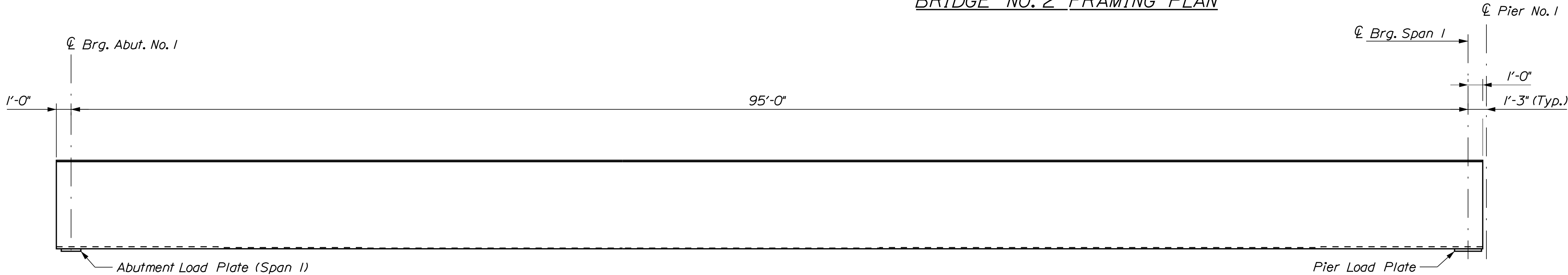
D54

OF D77

LLEWELLYN ESTES BRIDGES					STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2251(200) & STP-2251(100)
STILLWATER RIVER					
OLD TOWN PENOBSCOT COUNTY					
BRIDGE 2					
SUPERSTRUCTURE SECTION					
PROJ. MANAGER	GERALD DOSTIE	BY	DATE	SIGNATURE	
DESIGN-DETAILED	G. ERICKSON	W. GERHOLD	9/2025		
CHECKED-REVIEWED	T. POLSON	T. POLSON	9/2025		
DESIGN2-DETAILED2					
DESIGN3-DETAILED3					
REVISIONS 1				P.E. NUMBER	
REVISIONS 2					
REVISIONS 3					
REVISIONS 4				DATE	
FIELD CHANGES					
BRIDGE NO. 1472 BRIDGE NO. 2806 WIN 022512.02 WIN 022511.02 BRIDGE PLANS					



BRIDGE NO. 2 FRAMING PLAN



BRIDGE NO. 2 - CT GIRDER ELEVATION SPAN 1, 2 AND 3
(Span 1 Shown, Span 3 Symmetrical, Span 2 See Note)

NOTE: Span 2 CT Girders will have Pier Load Plates installed at both ends of the beam.

CALCULATED DEFLECTIONS (INCHES)											
	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
FRP Dead Load	0	0.29	0.54	0.74	0.86	0.90	0.86	0.74	0.54	0.29	0
Fluid Concrete Dead Load_a	0	1.71	3.24	4.43	5.17	5.42	5.17	4.43	3.24	1.71	0
Fluid Concrete Dead Load_b	0	0.32	0.52	0.62	0.68	0.70	0.68	0.62	0.52	0.32	0
Superimposed Dead Load	0	0.27	0.51	0.68	0.78	0.81	0.78	0.68	0.51	0.27	0
Wearing Surface Dead Load	0	0.18	0.33	0.44	0.51	0.53	0.51	0.44	0.33	0.18	0
Creep and Shrinkage	0	0.97	1.81	2.41	2.76	2.88	2.76	2.41	1.81	0.97	0
TOTAL	0	3.74	6.95	9.33	10.75	11.24	10.75	9.33	6.95	3.74	0

CALCULATED CAMBER (INCHES)											
	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
Design Camber	0	3 3/4	6 15/16	9 5/16	10 3/4	11 1/4	10 3/4	9 5/16	6 15/16	3 3/4	0

SELF WEIGHT DEFLECTED CAMBER (INCHES)											
	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
Self Weight Deflected Camber	0	3 7/16	6 7/16	8 9/16	9 7/8	10 5/16	9 7/8	8 9/16	6 7/16	3 7/16	0

SPAN 1 BOTTOM OF SLAB ELEVATIONS (FEET)											
Girder	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
G1	107.98	108.31	108.61	108.84	108.99	109.08	109.09	109.03	108.89	108.69	108.45
G2	108.15	108.48	108.78	109.00	109.16	109.25	109.26	109.19	109.06	108.86	108.62
G3	108.31	108.65	108.94	109.17	109.33	109.41	109.42	109.36	109.23	109.03	108.79
G4	108.28	108.61	108.91	109.13	109.29	109.38	109.39	109.32	109.19	108.99	108.75
G5	108.11	108.44	108.74	108.97	109.12	109.21	109.22	109.16	109.02	108.82	108.58

SPAN 2 BOTTOM OF SLAB ELEVATIONS (FEET)											
Girder	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
G1	108.47	108.80	109.09	109.32	109.48	109.56	109.57	109.51	109.38	109.18	108.94
G2	108.63	108.97	109.26	109.49	109.65	109.73	109.74	109.68	109.55	109.35	109.11
G3	108.80	109.14	109.43	109.66	109.82	109.90	109.91	109.85	109.72	109.52	109.28
G4	108.76	109.10	109.39	109.62	109.78	109.86	109.87	109.81	109.68	109.48	109.24
G5	108.60	108.93	109.22	109.45	109.61	109.69	109.70	109.64	109.51	109.31	109.07

SPAN 3 BOTTOM OF SLAB ELEVATIONS (FEET)											
Girder	Span - 1/10th Points										
	0	1	2	3	4	5	6	7	8	9	10
G1	108.95	109.29	109.58	109.81	109.97	110.05	110.06	110.00	109.87	109.69	109.48
G2	109.12	109.46	109.75	109.98	110.14	110.22	110.23	110.17	110.04	109.85	109.65
G3	109.29	109.62	109.92	110.15	110.30	110.39	110.40	110.34	110.20	110.02	109.82
G4	109.25	109.59	109.88	110.11	110.27	110.35	110.36	110.30	110.17	109.98	109.78
G5	109.08	109.42	109.71	109.94	110.10	110.18	110.19	110.13	110.00	109.82	109.61

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806
WIN 022512.02
WIN 022511.02
BRIDGE PLANS

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

DATE
9/20/25
9/20/25

BY
T. POLSON
AIT

SIGNATURE
P.E. NUMBER
DATE

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
PENOBSCOT COUNTY
OLD TOWN

BRIDGE 2 FRAMING PLAN
AND CT GIRDER ELEVATION

SHEET NUMBER

D55

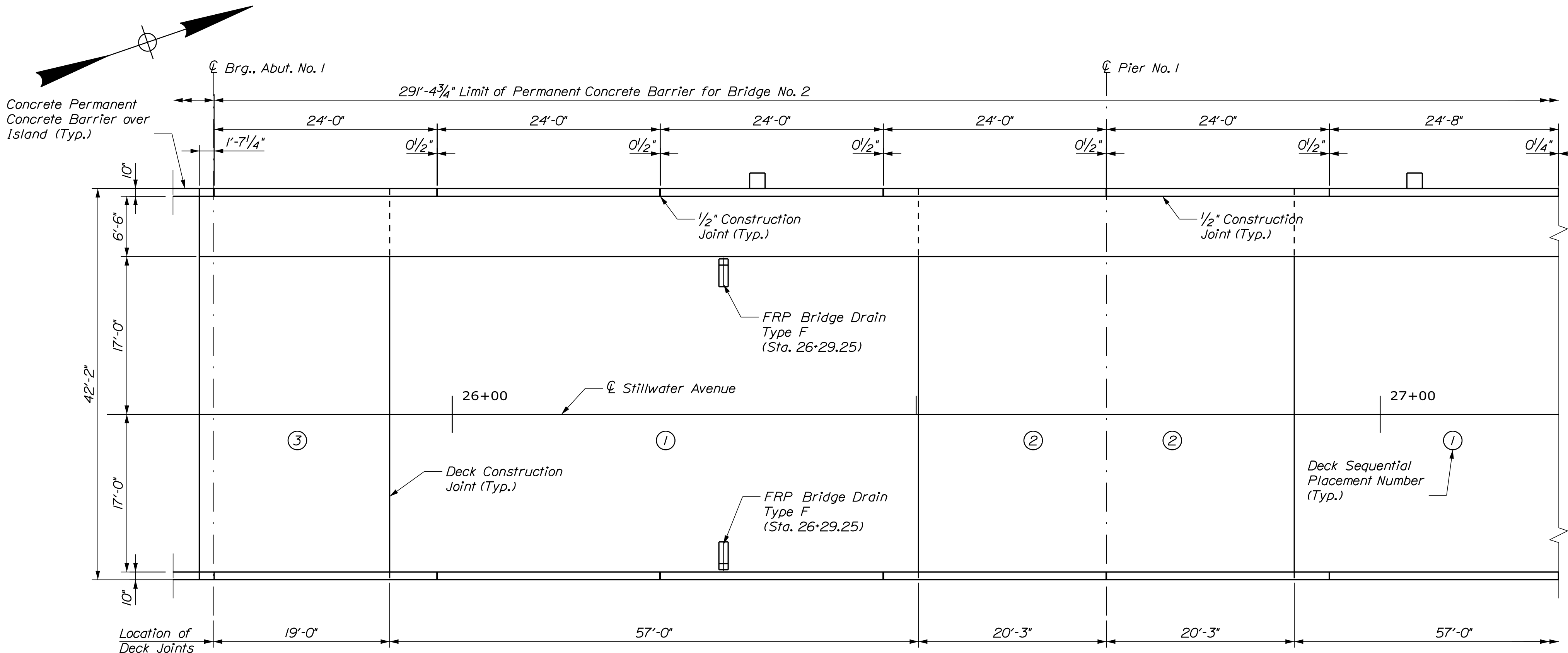
OF D77

Date:9/30/2025

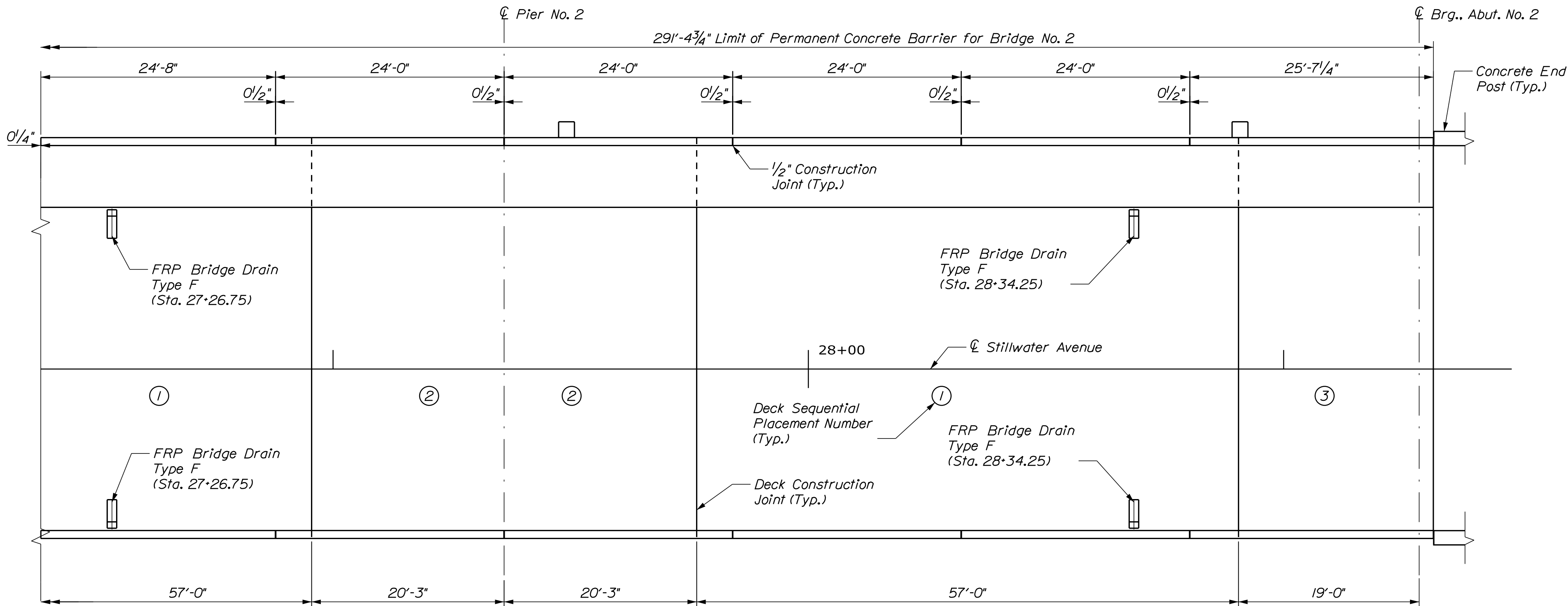
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Division: BRIDGE

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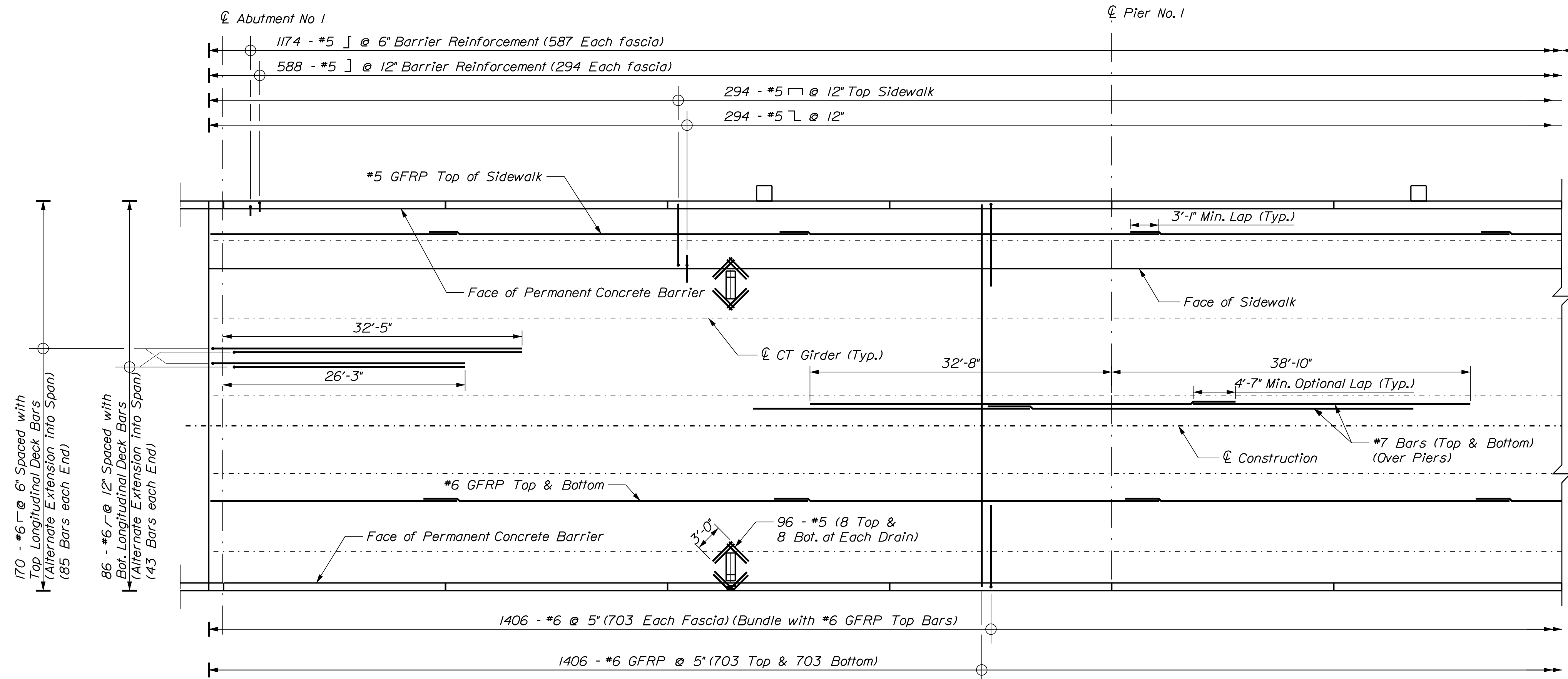
BRIDGE NO. 2 DECK & BARRIER LAYOUT



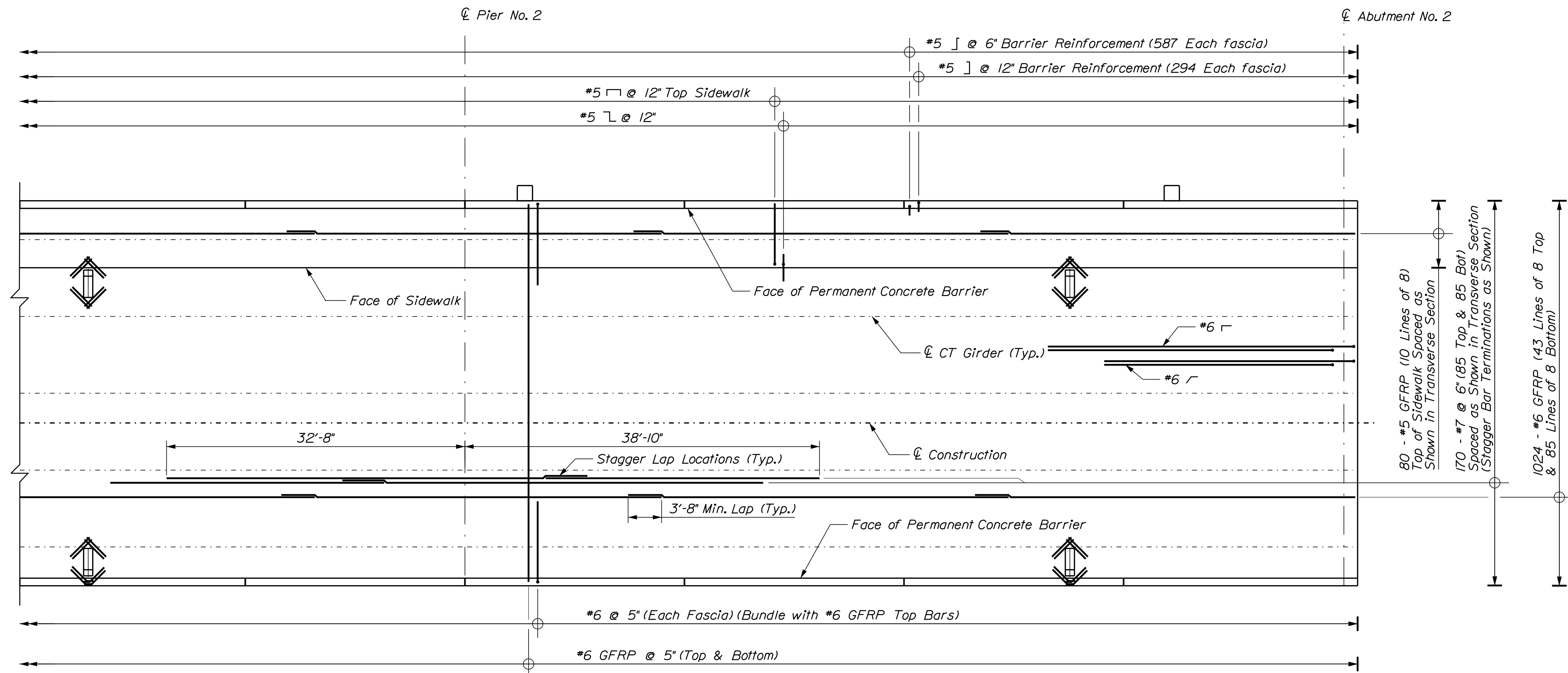
BRIDGE NO. 2 DECK & BARRIER LAYOUT

- SUPERSTRUCTURE NOTES**
- The theoretical blocking used for design of the structure is 3 inch at the centerline of bearing of the abutments and piers. Refer to Standard Detail 502(03) for blocking details.
 - Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
 - Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab and the barrier and slab.
 - Deck placement shall be performed in the sequence noted on the plan, except as follows: it is the Contractor's option to pour sequence 2 and 3 at separate times or simultaneously - if poured simultaneously, all concrete shall remain plastic until the entire placement is completed. Placement of the different locations within the same step shall be continuous such that concrete remains plastic until all placement at all locations within the same step is completed. A minimum of 5 days shall elapse between successive partial placements. The superstructure slab concrete placement sequence shall be approved by the Resident.
 - Precast Concrete Deck Panels are not allowed on this project.
 - Adjust reinforcing to fit around the bridge drains in a manner approved by the Resident. Do not cut transverse reinforcing bars.

SHEET NUMBER				STATE OF MAINE			
D56				DEPARTMENT OF TRANSPORTATION			
				STP-2251(200) & STP-2251(100)			
OF D77				BRIDGE NO. 1472 BRIDGE NO. 2806			
				WIN 022512.02 WIN 022511.02			
BRIDGE 2 DECK AND BARRIER LAYOUT PLAN				BRIDGE PLANS			
OLD TOWN PENOBSCOT COUNTY				PROJ. MANAGER GERALD DOSTIE			
				BY W. GERHOLD			
BRIDGE 2 DECK AND BARRIER LAYOUT PLAN				DESIGN-DETAILED			
				CHECKED-REVIEWED T. POLSON			
BRIDGE 2 DECK AND BARRIER LAYOUT PLAN				SIGNATURE			
				DATE			
BRIDGE 2 DECK AND BARRIER LAYOUT PLAN				DESIGN-DETAILED2			
				DESIGN-DETAILED3			
BRIDGE 2 DECK AND BARRIER LAYOUT PLAN				P.E. NUMBER			
BRIDGE 2 DECK AND BARRIER LAYOUT PLAN				REVISIONS 1			
				REVISIONS 2			
BRIDGE 2 DECK AND BARRIER LAYOUT PLAN				REVISIONS 3			
				REVISIONS 4			
BRIDGE 2 DECK AND BARRIER LAYOUT PLAN				FIELD CHANGES			

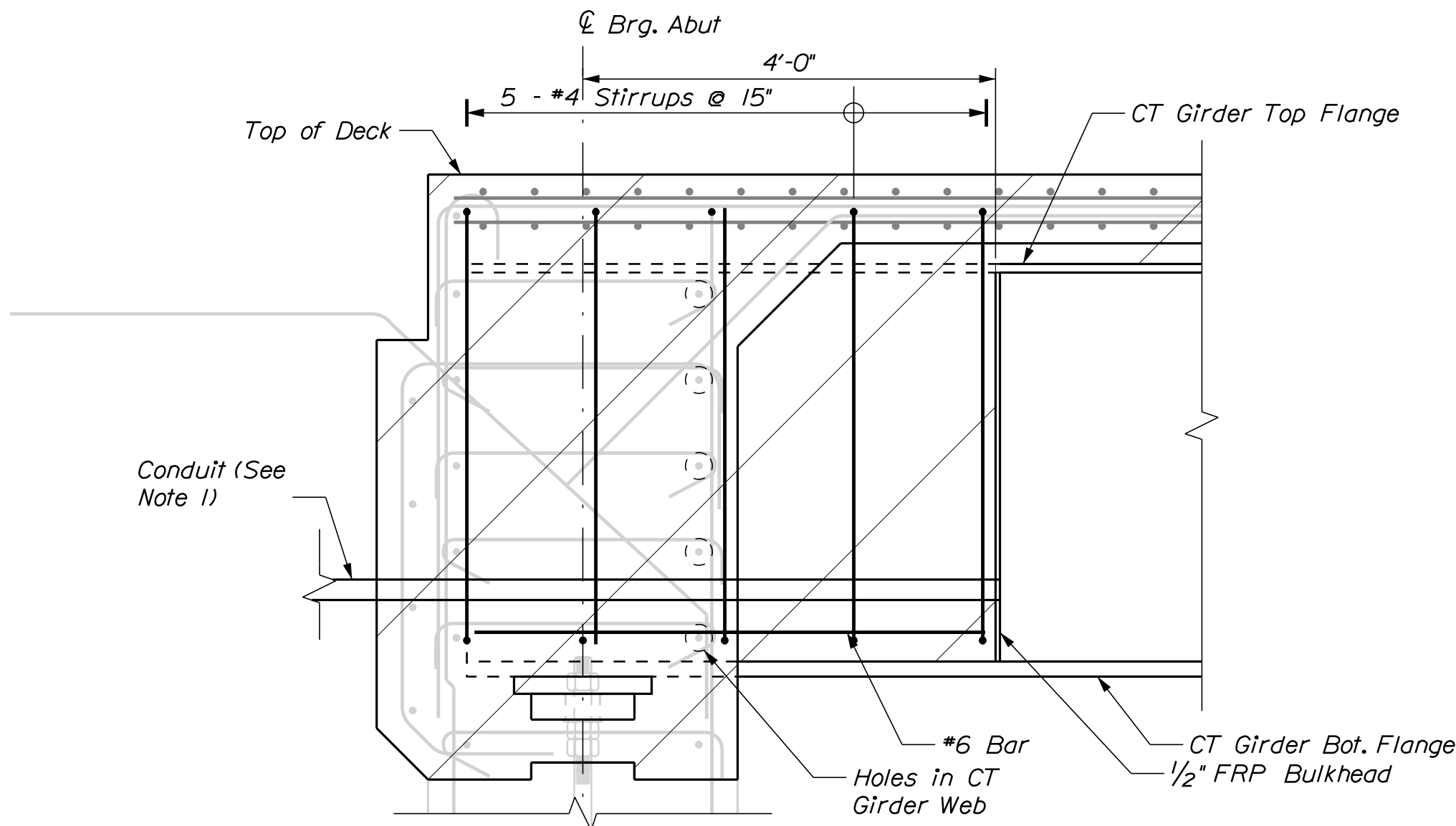


DECK REINFORCING PLAN SPAN 1 AND 2

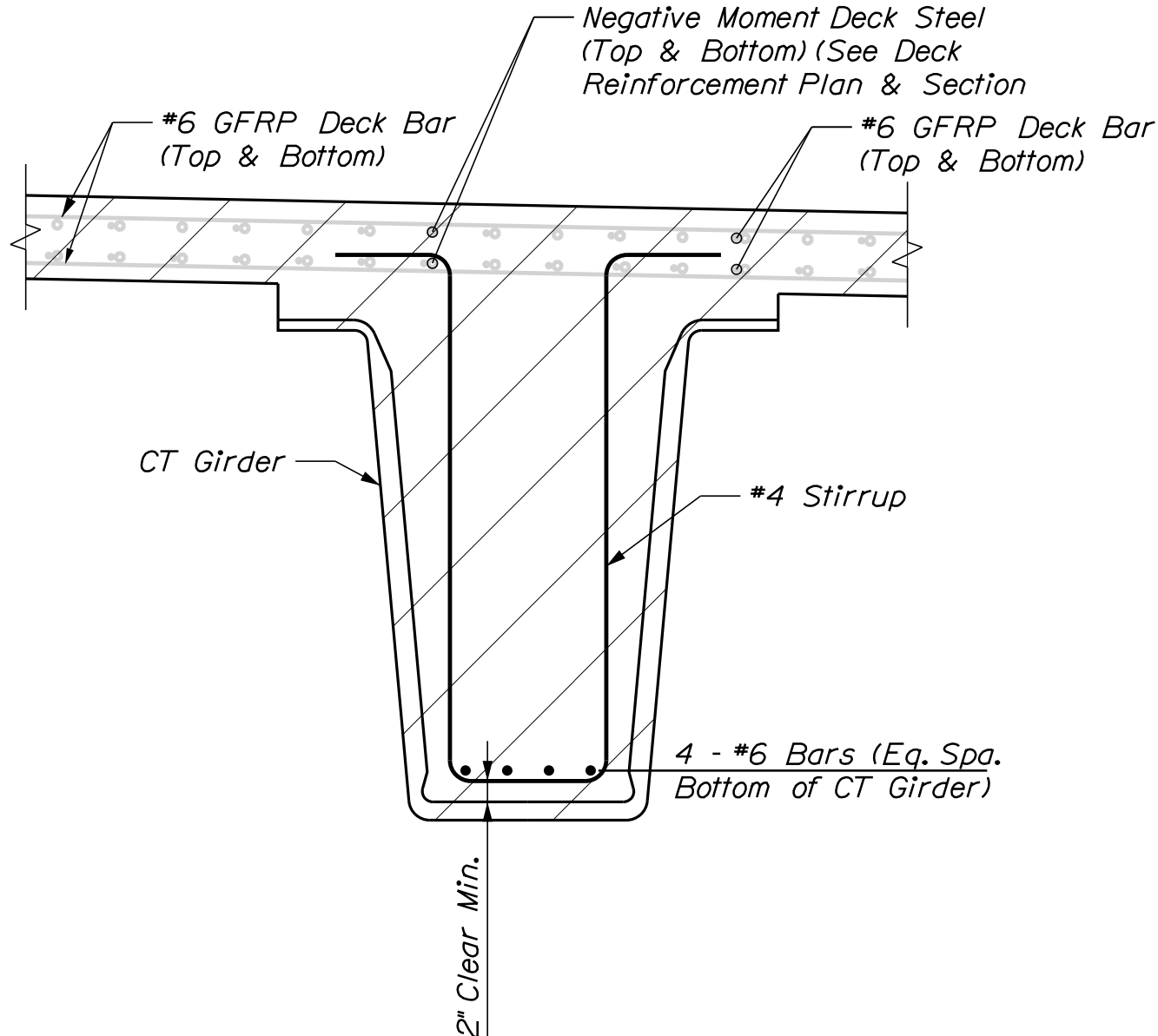


DECK REINFORCING PLAN SPAN 2 AND 3

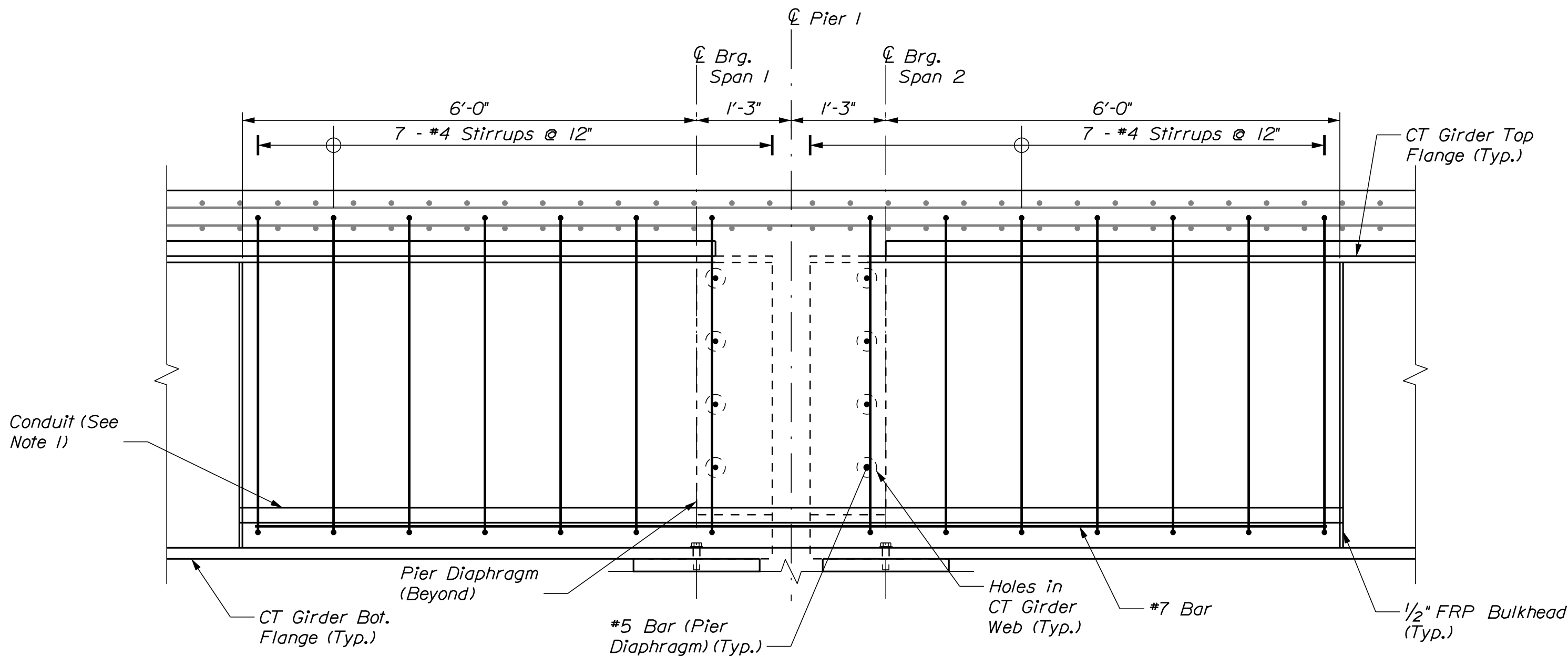




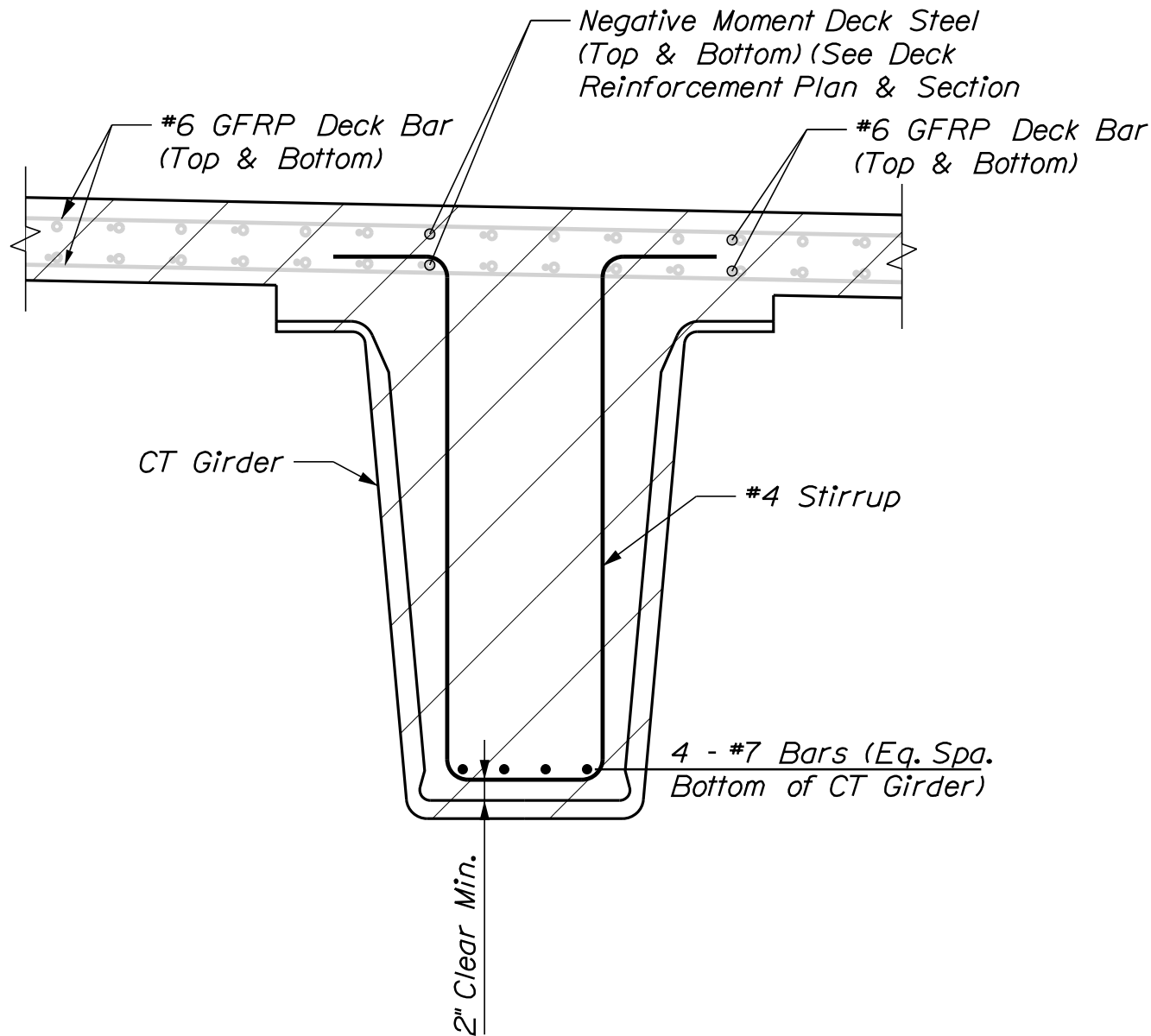
BRIDGE NO. 2 CT GIRDER INFILL LONGITUDINAL SECTION AT ABUTMENT
(Abutment 1 Shown, Abutment 2 Similar)
(Proposed Deck and Abutment Stem Reinforcement Shown Gray for Clarity)



BRIDGE NO. 2 CT GIRDER INFILL REINFORCEMENT SECTION AT ABUTMENT



BRIDGE NO. 2 CT GIRDER INFILL LONGITUDINAL SECTION AT PIER
(Pier 1 Shown, Pier 2 Similar)
(Proposed Deck Reinforcement Shown Gray for Clarity)

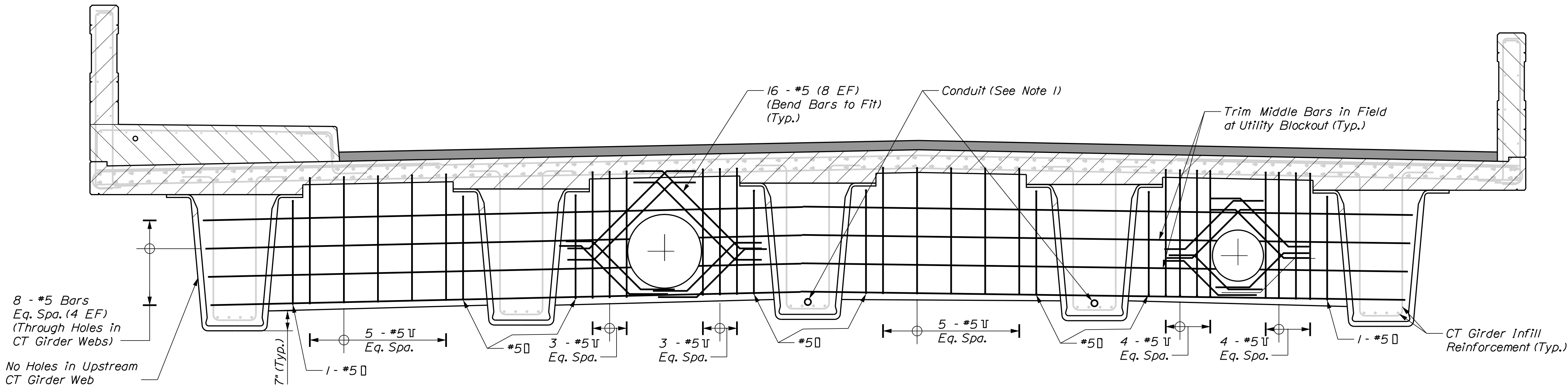


BRIDGE NO. 2 CT GIRDER INFILL REINFORCEMENT SECTION AT PIER

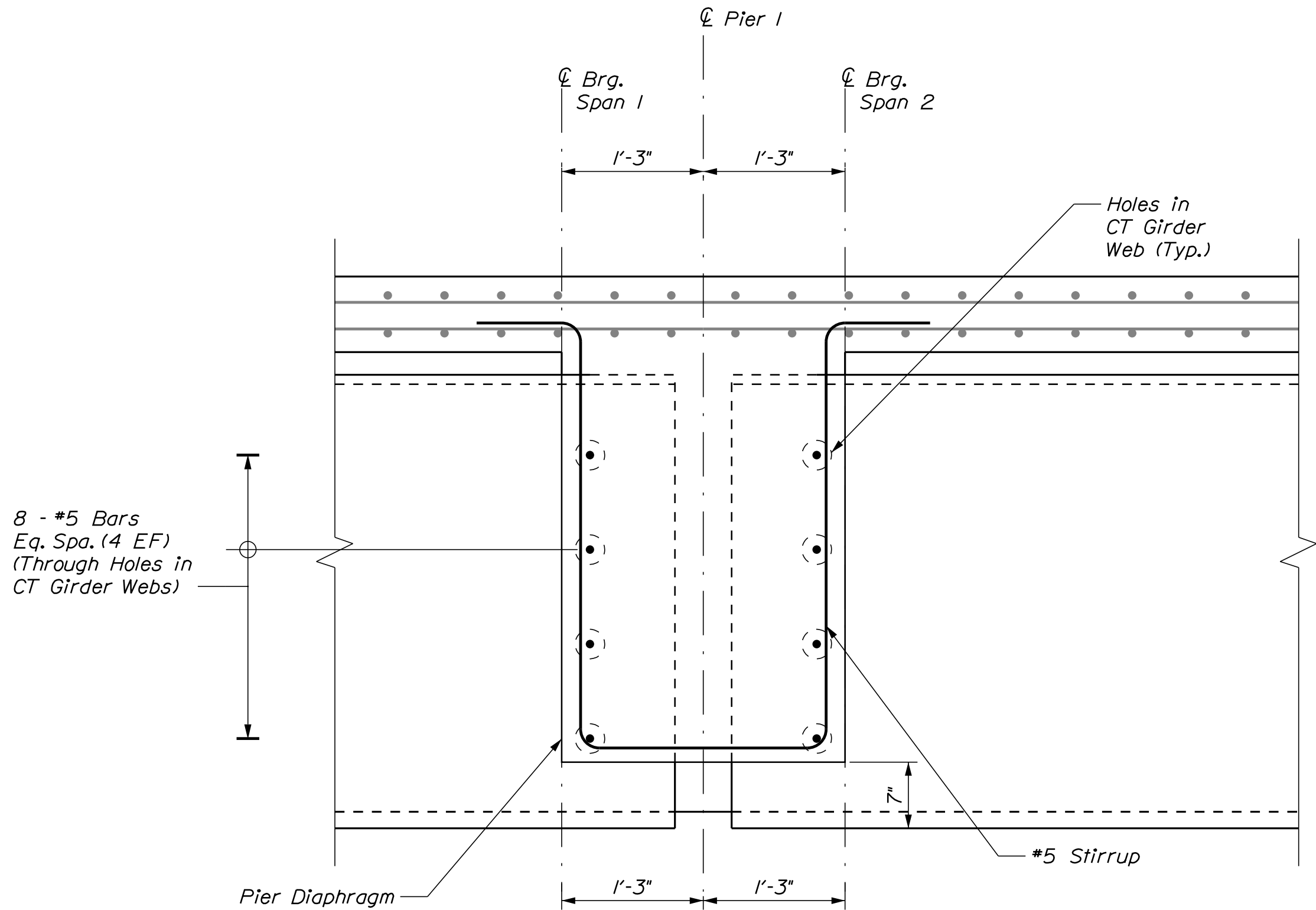
NOTES

- 2" Schedule 80 PVC Conduit for instrumentation shall be installed in the CT Girder infill regions and through the abutment stem at Bridge 2, Pier 2 & Abutment 2 in Girders 3 & 4. Locations of conduit shall be coordinated in the field with the University of Maine.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02		BRIDGE PLANS	
LLEWELLYN ESTES BRIDGES		STILLWATER RIVER		PENOBSCOT COUNTY		OLD TOWN		BRIDGE 2 CT GIRDER		INFILL DETAILS	
PROJ. MANAGER		GERALD DOSTIE		BY		DATE		SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		AIT		T. POLSON		9/2025					
CHECKED-REVIEWED		AIT		AT		9/2025					
DESIGN-DETAILED											
REVISIONS 1											
REVISIONS 2											
REVISIONS 3											
REVISIONS 4											
FIELD CHANGES											
SHEET NUMBER		D59		OF D77							



BRIDGE NO. 2 PIER DIAPHRAGM REINFORCEMENT ELEVATION
(Deck Reinforcement and CT Girder Infill Reinforcement Shown in Gray
but Not Labeled for Clarity, see Applicable Reinforcement Detail Sheets)



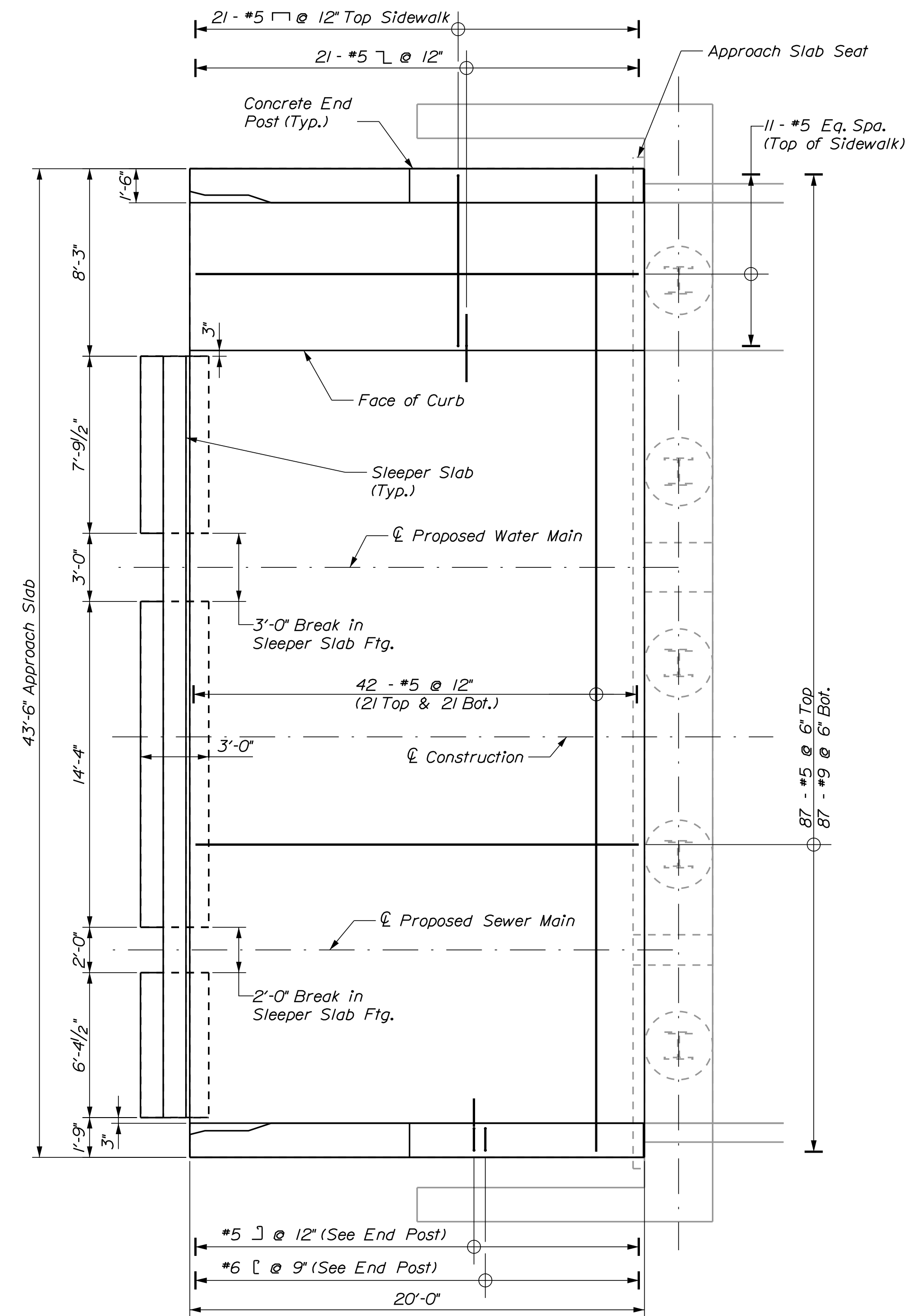
BRIDGE NO. 2 PIER DIAPHRAGM REINFORCEMENT SECTION
(Proposed Deck Reinforcement Shown Gray for Clarity)
(Pier 1 Shown, Pier 2 Similar)

NOTES

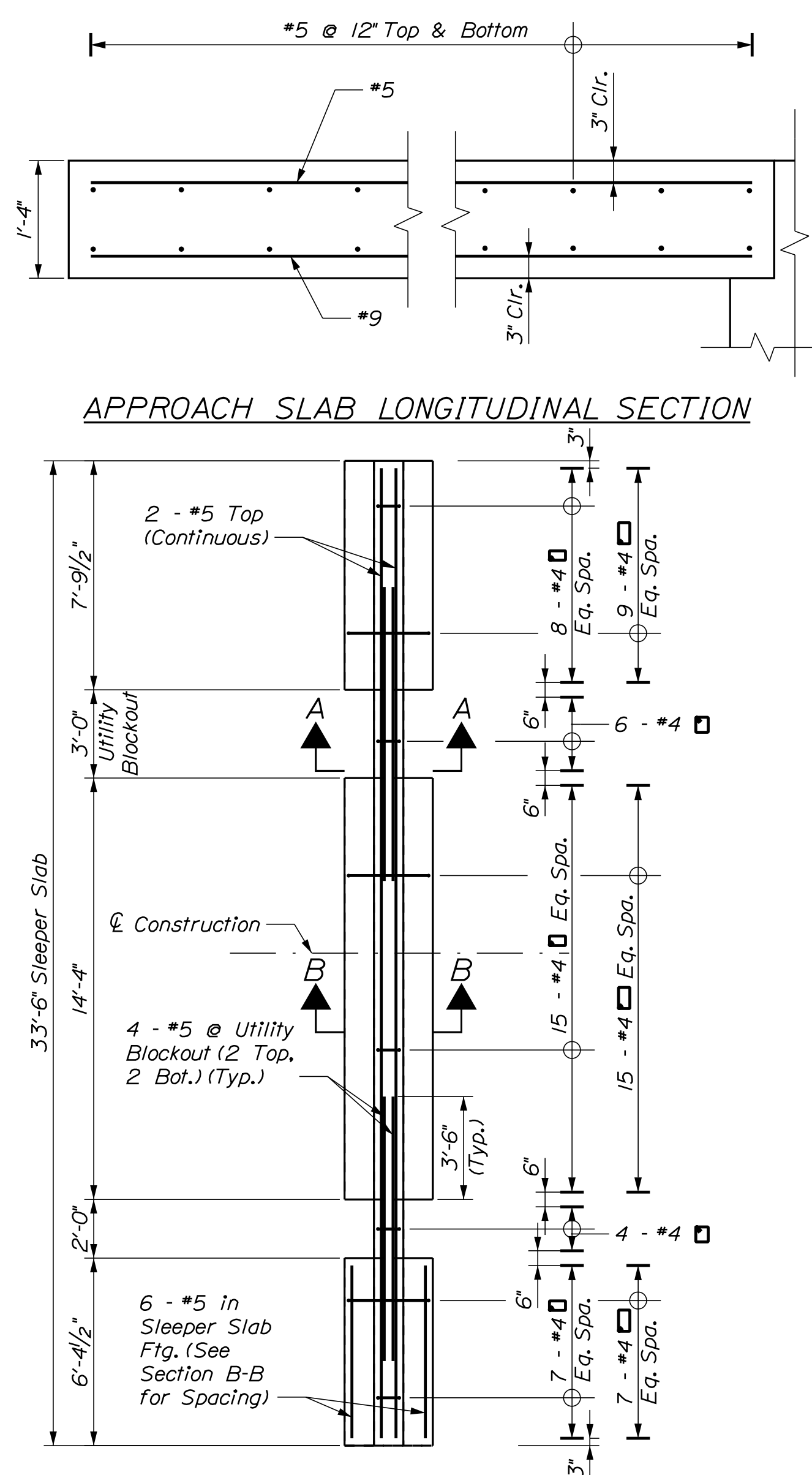
1. 2" Schedule 80 PVC Conduit for instrumentation shall be installed in the CT Girder infill regions and through the abutment stem at Bridge 2, Pier 2 & Abutment 2 in Girders 3 & 4. Locations of conduit shall be coordinated in the field with the University of Maine.

Bridge No. 2 Bottom of CT Girder Elevations (All Elevations in Feet)									
			Girder 1	Girder 2	Girder 3	Girder 4	Girder 5		
Pier 1	Bottom of Girder	Span 1	104.11	104.28	104.45	104.41	104.24		
		Span 2	104.12	104.29	104.46	104.42	104.25		
Pier 2	Bottom of Girder	Span 2	104.60	104.77	104.93	104.90	104.73		
		Span 3	104.61	104.78	104.95	104.91	104.74		

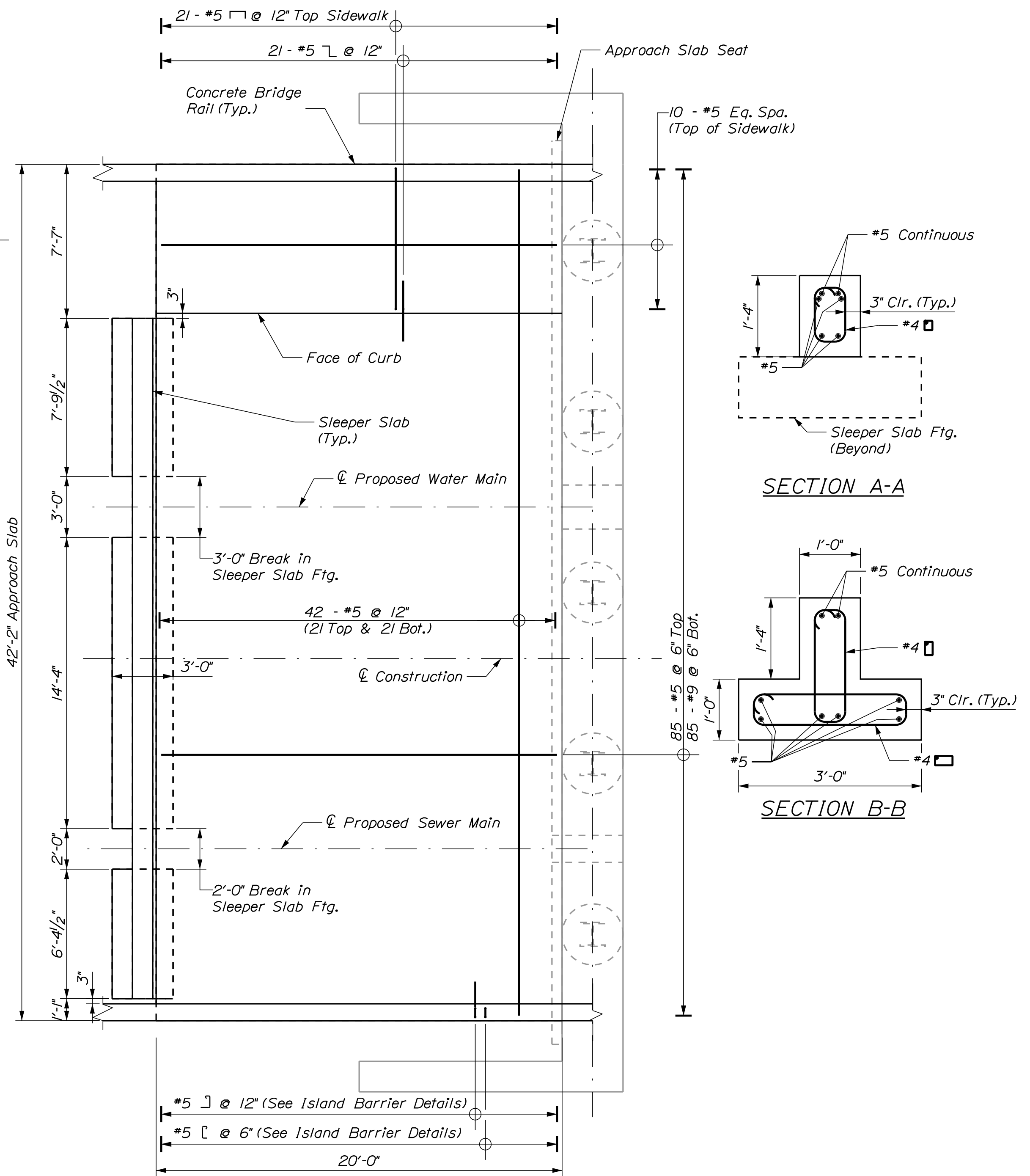
PROJ. MANAGER	GERALD DOSTE	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	AIT	9/2025	T. POLSON	9/2025			
CHECKED-REVIEWED	AIT		AIT				
DESIGN-DETAILED							
REVISIONS 1							
REVISIONS 2							
REVISIONS 3							
REVISIONS 4							
FIELD CHANGES							



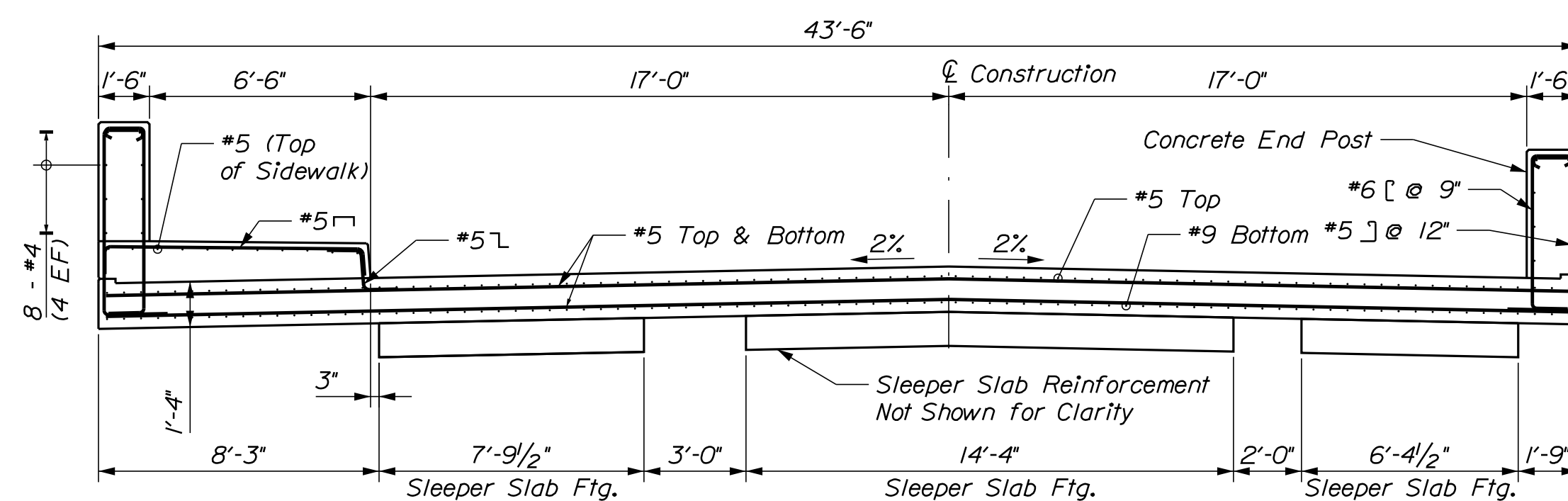
APPROACH SLAB PLAN
(Bridge 1 Abutment 1 Shown, Bridge 2 Abutment 2 Similar)



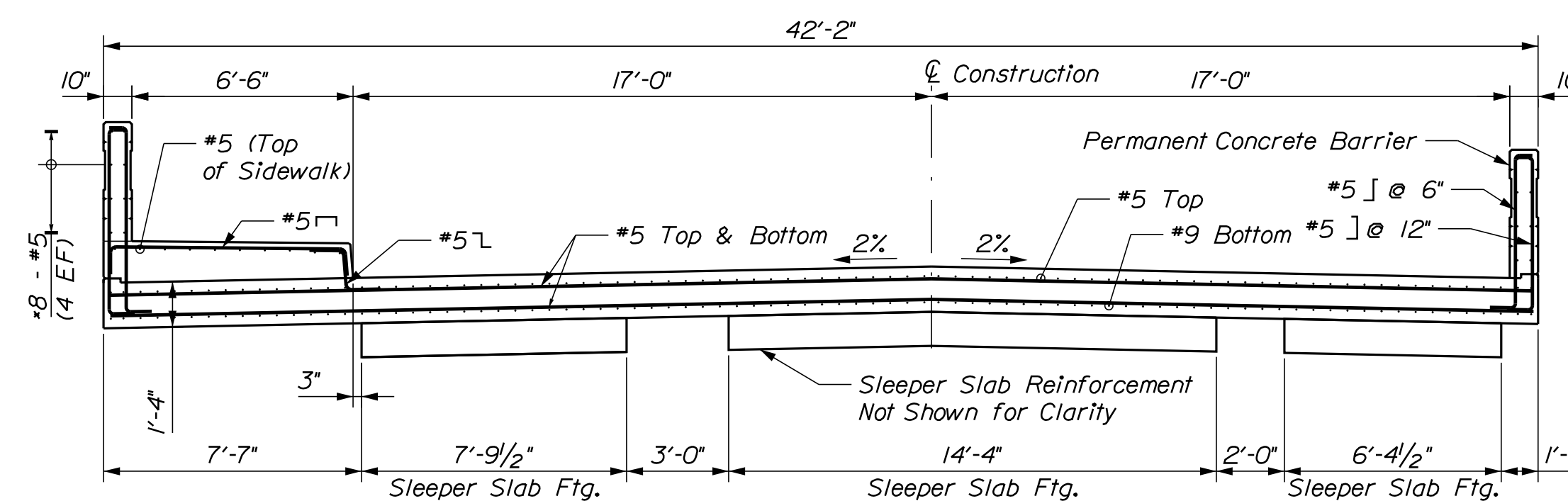
SLEEPER SLAB PLAN
(Bridge / Abutment / Shown, Other Locations Similar)



APPROACH SLAB PLAN
(Bridge 2 Abutment 1 Shown, Bridge 1 Abutment 2 Similar)

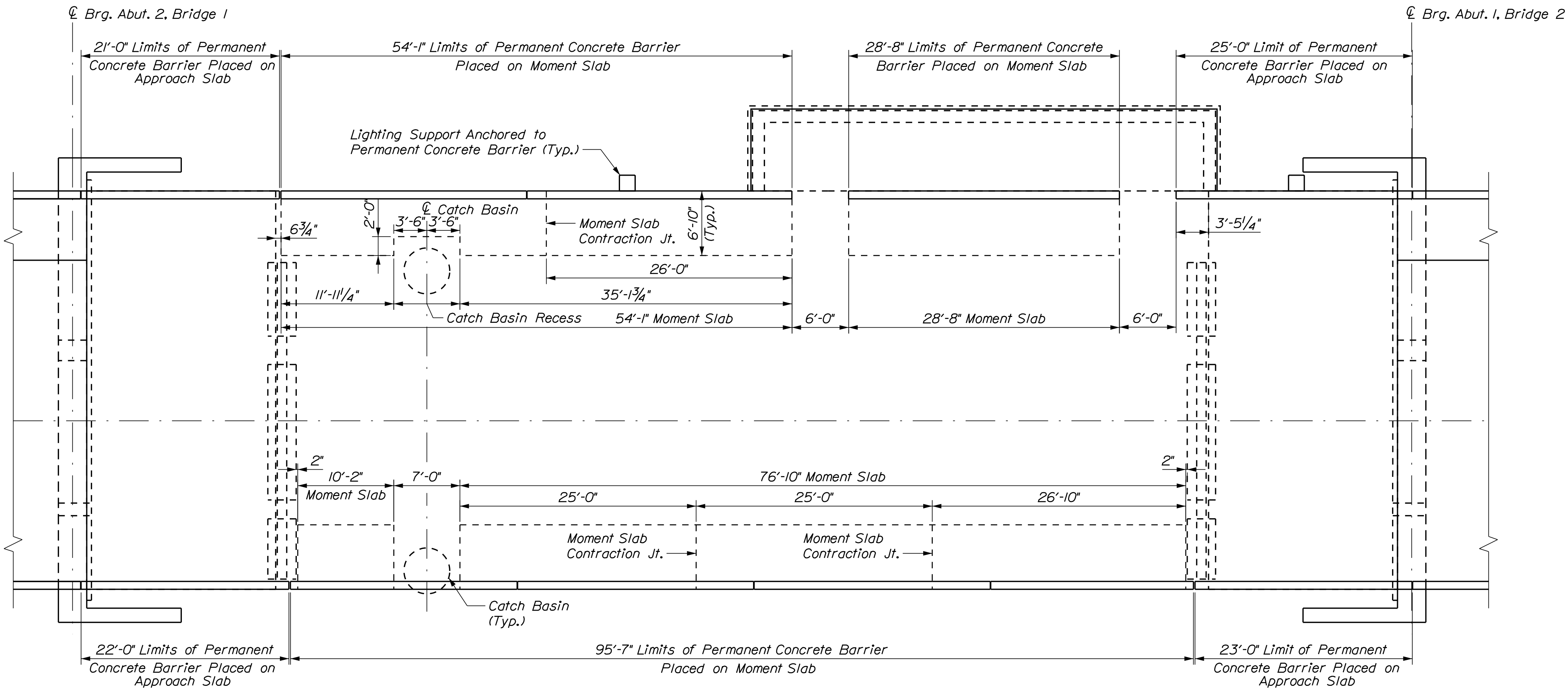


APPROACH SLAB TRANSVERSE SECTION
(Bridge 1 Abutment 1 Shown, Bridge 2 Abutment 2 Similar)



**See Island Barrier Details
for Additional Barrier
Reinforcement Requirements*

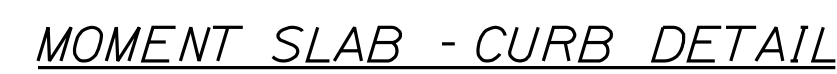
APPROACH SLAB TRANSVERSE SECTION
(Bridge 1 Abutment 2 Shown, Bridge 2 Abutment 1 Similar)



MOMENT SLAB LAYOUT PLAN

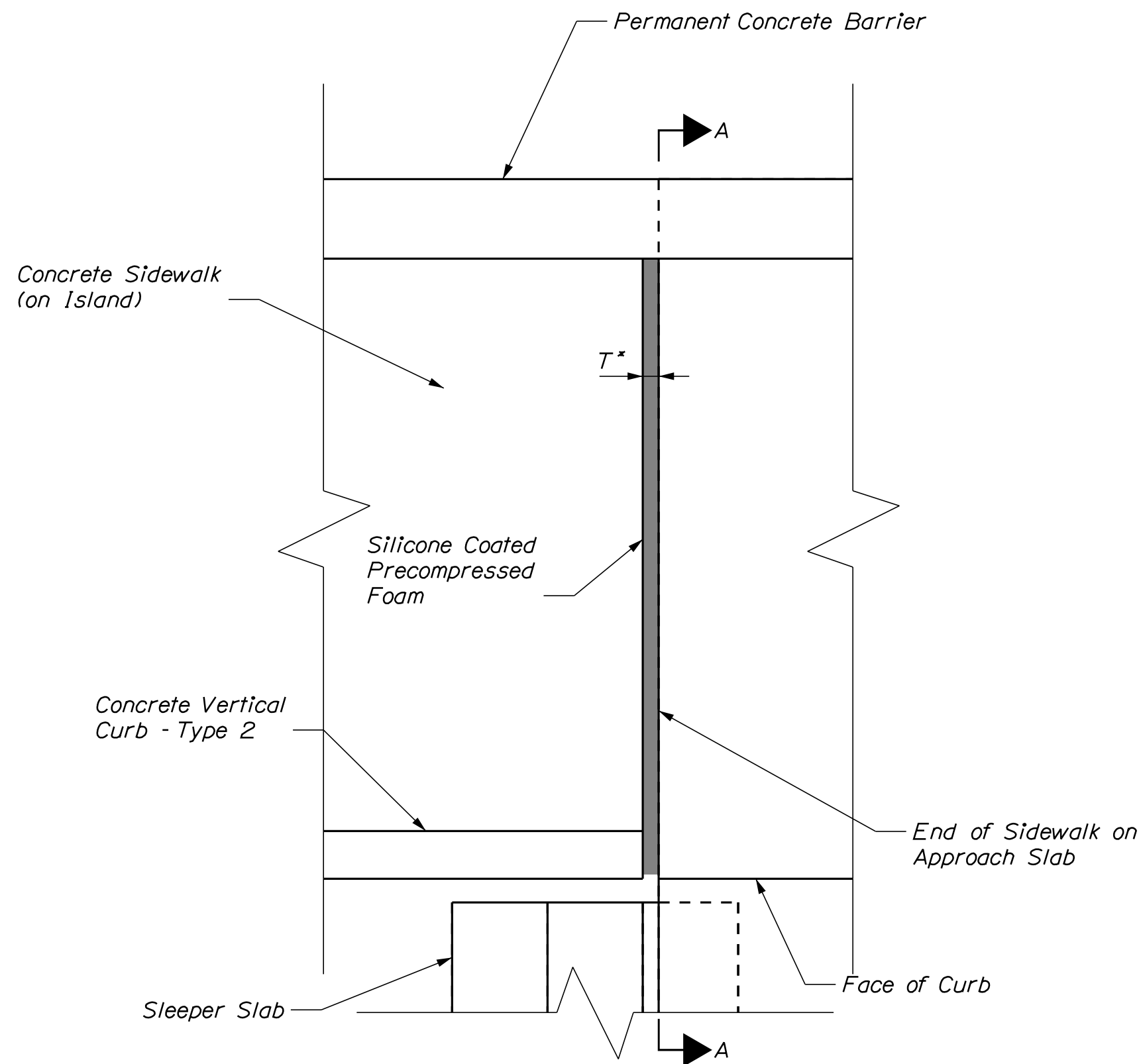


LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN				PENOBSCOT COUNTY		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
MOMENT SLAB LAYOUT						STP-2251(200) & STP-2251(100)	
SHEET NUMBER				D62		OF D77	
PROJ. MANAGER		GERALD DOSTIE	BY	DATE	SIGNATURE		
DESIGN-DETAILED		G. ERICKSON	G. ERICKSON	9/2025			
CHECKED-REVIEWED		T. POLSON	T. POLSON	9/2025			
DESIGN2-DETAILED2							
DESIGN3-DETAILED3							
REVISIONS 1					P.E. NUMBER		
REVISIONS 2							
REVISIONS 3					DATE		
REVISIONS 4							
FIELD CHANGES							
						BRIDGE NO. 1472 BRIDGE NO. 2806	
						WIN 022512.02 WIN 022511.02	
						BRIDGE PLANS	



1. Reinforcing steel shall have a minimum concrete cover of 2 inches in the Moment Slab unless otherwise noted.
2. Cover joints where waterstops are not required in accordance with Standard Details Section 502.
3. Moment Slabs shall be backfilled with Aggregate Subbase Course Gravel. Moment Slab footings shall be backfilled with Granular Borrow. Pay limits will be the structural excavation limits in cut areas and a vertical plane located 1'-6" behind the Moment Slab toe in fill areas, unless otherwise noted.
4. Concrete in Moment Slabs will be paid under Item 502.2/9, "Structural Concrete, Abutments and Retaining Walls".
5. Concrete in the Permanent Concrete Barrier will be paid under Item 526.341 "Permanent Concrete Barrier, Special".
6. Reinforcing steel in the Moment Slabs shall terminate at the contraction joints.

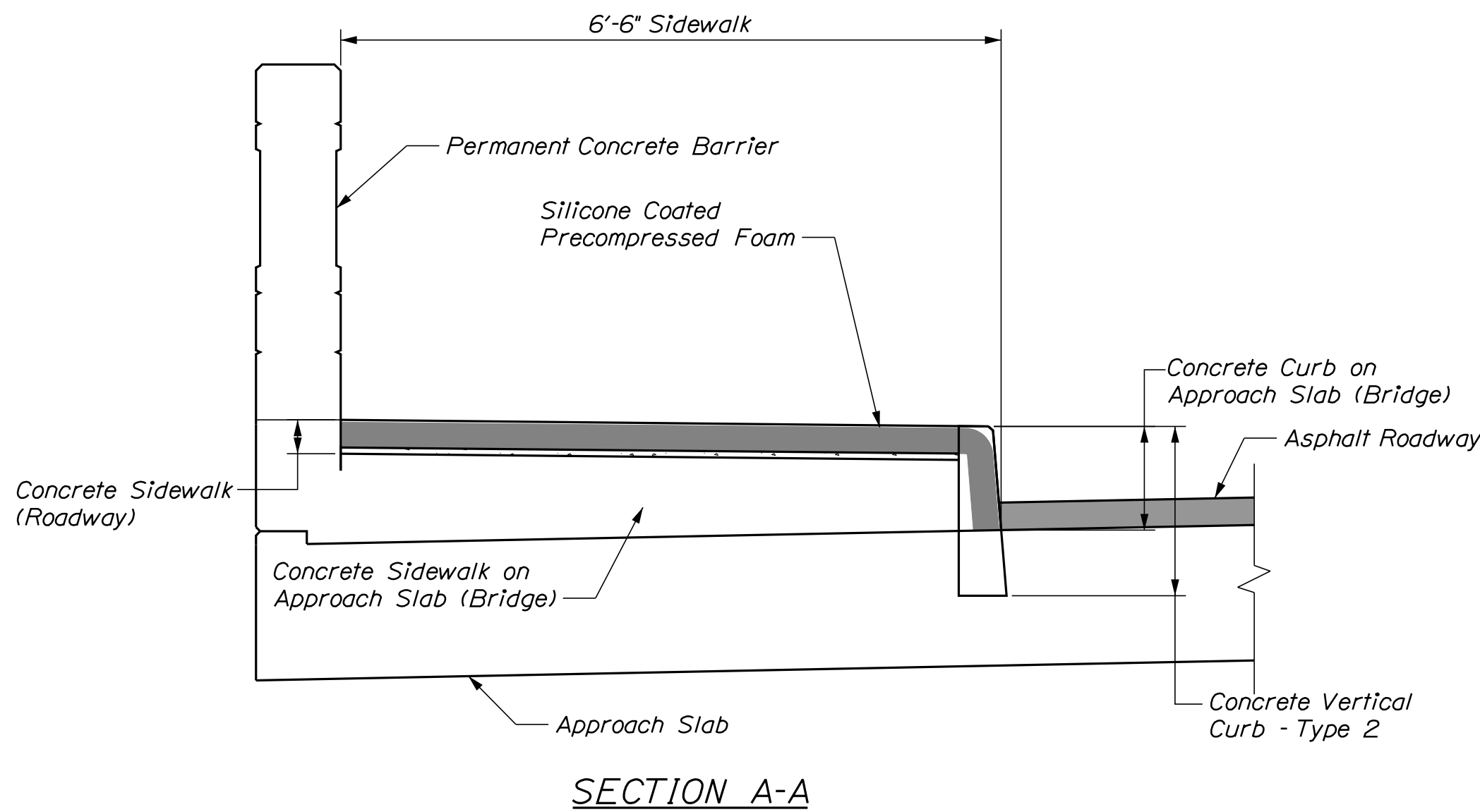




SIDEWALK JOINT DETAIL
(Bridge 2, Abutment 1 Shown; Bridge 1, Abutment 2 Similar)
(*See Abutment Typical Section for Temperature Setting Table)

SILICONE COATED PRECOMPRESSED FOAM NOTES

1. Silicone Coated Precompressed Foam shall be installed between the concrete sidewalk that is on top of the approach slabs and the concrete sidewalk on the island.
2. Silicone Coated Precompressed Foam shall be selected from the MaineDOT Qualified Products List.
3. Installation of Silicone Coated Precompressed Foam shall follow the Manufacturer's recommendations.



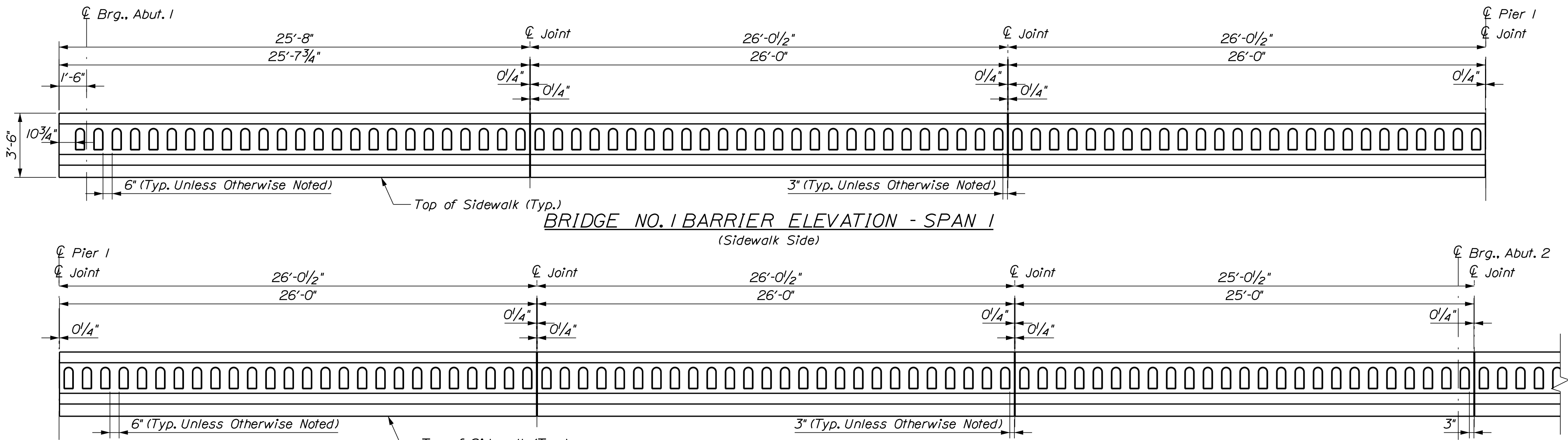
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
STP-2251(200) & STP-2251(100)		BRIDGE NO. 1472 BRIDGE NO. 2806	
WIN 022512.02		WIN 022511.02	
BRIDGE PLANS		BRIDGE PLANS	
LLEWELLYN ESTES BRIDGES		PROJ. MANAGER	
STILLWATER RIVER		DESIGNED-Detailed	
OLD TOWN		CHECKED-Reviewed	
PENOBSCOT COUNTY		DESIGNED-Detailed	
SIDEWALK JOINT DETAILS		REVISIONS 1	
		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	
		BY	
		DATE	
		SIGNATURE	
		P.E. NUMBER	
		DATE	
SHEET NUMBER		D64	
		OF D77	

Date:9/30/2025

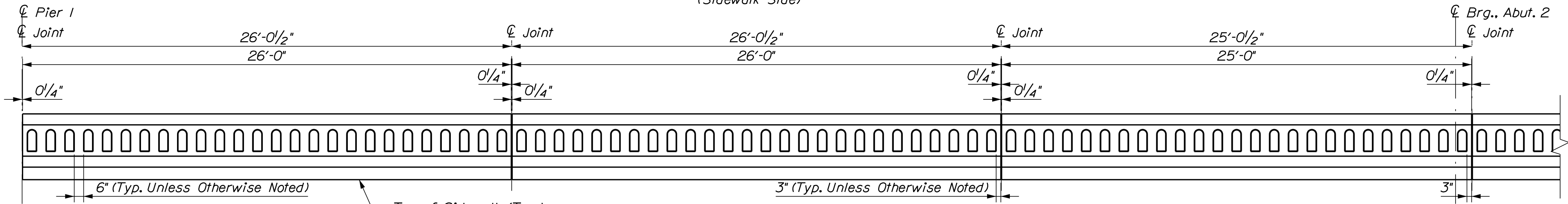
Username:

Division: BRIDGE

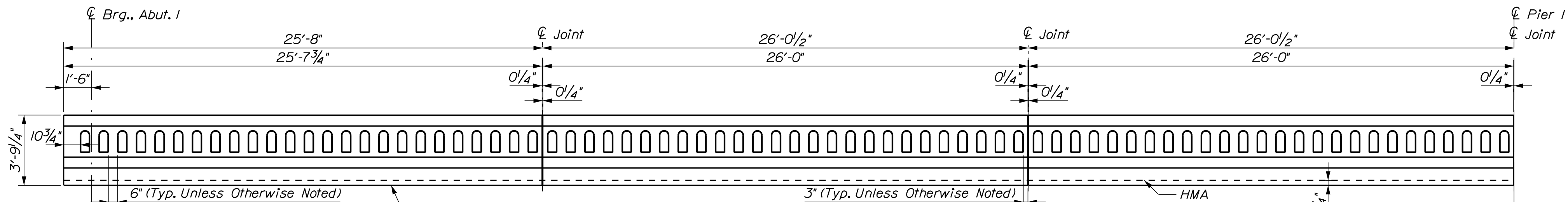
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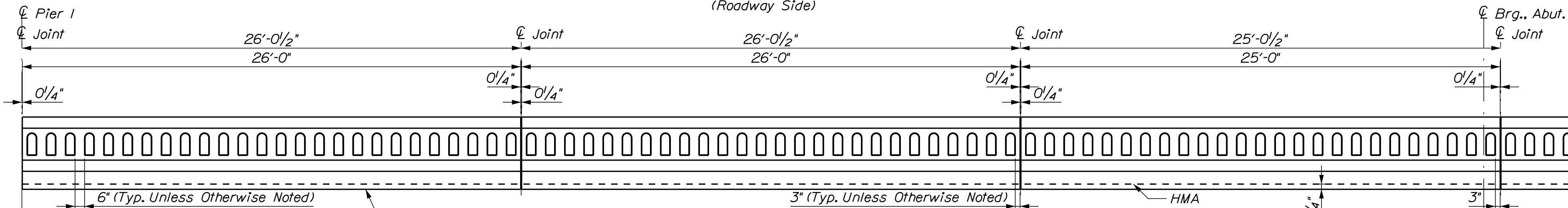
BRIDGE NO. 1 BARRIER ELEVATION - SPAN 1
(Sidewalk Side)



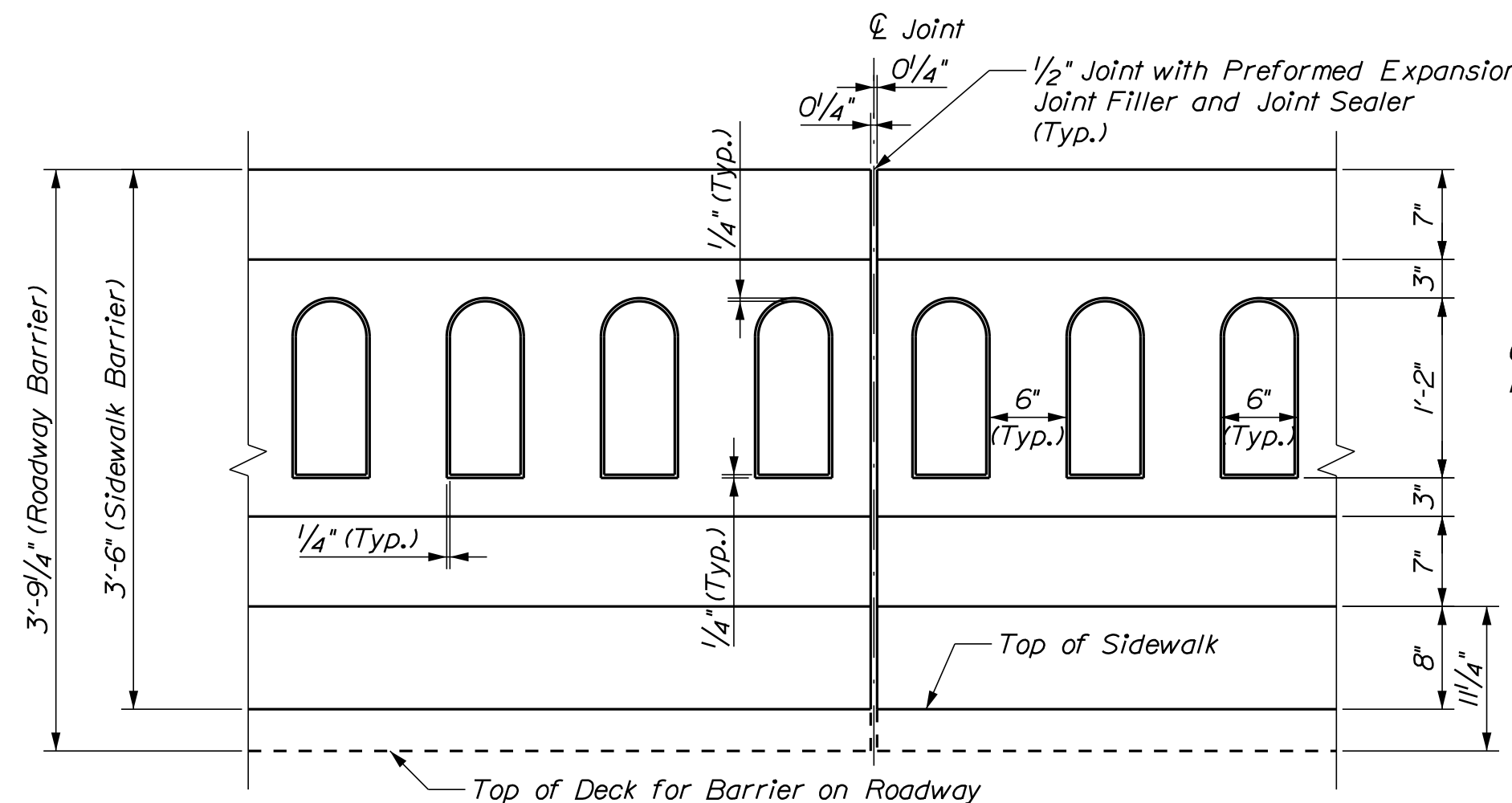
BRIDGE NO. 1 BARRIER ELEVATION - SPAN 2
(Sidewalk Side)



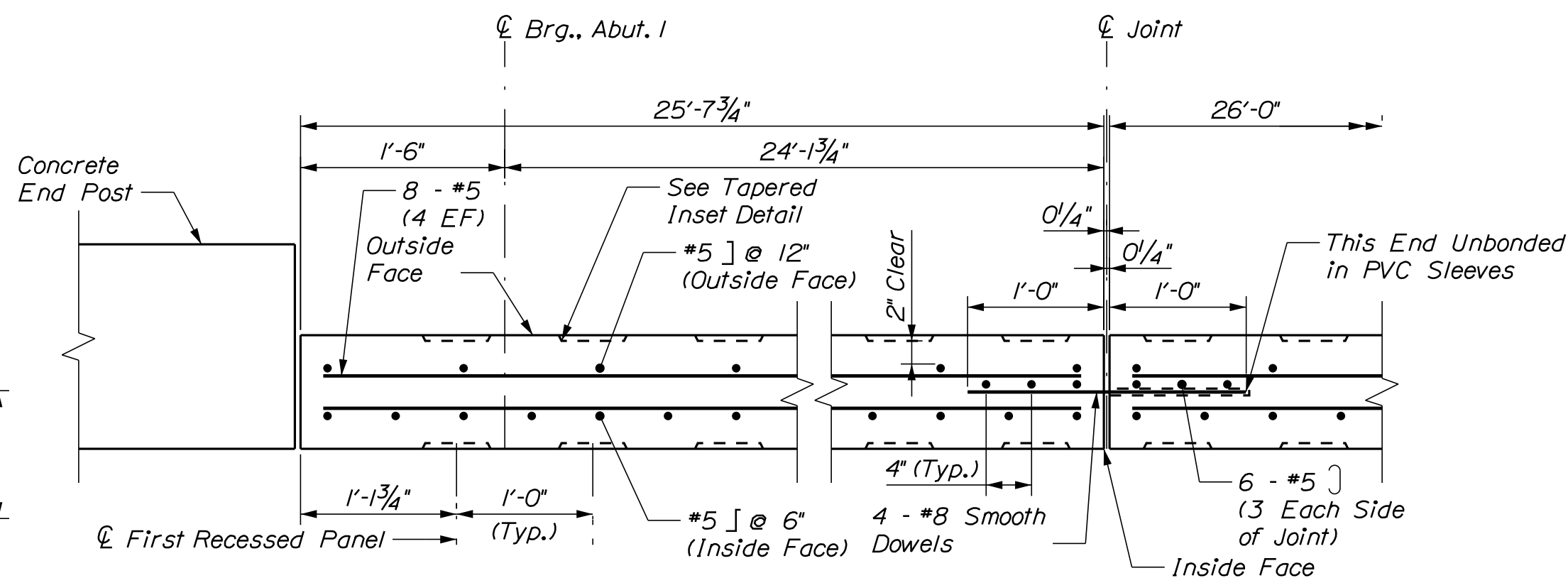
BRIDGE NO. 1 BARRIER ELEVATION - SPAN 1
(Roadway Side)



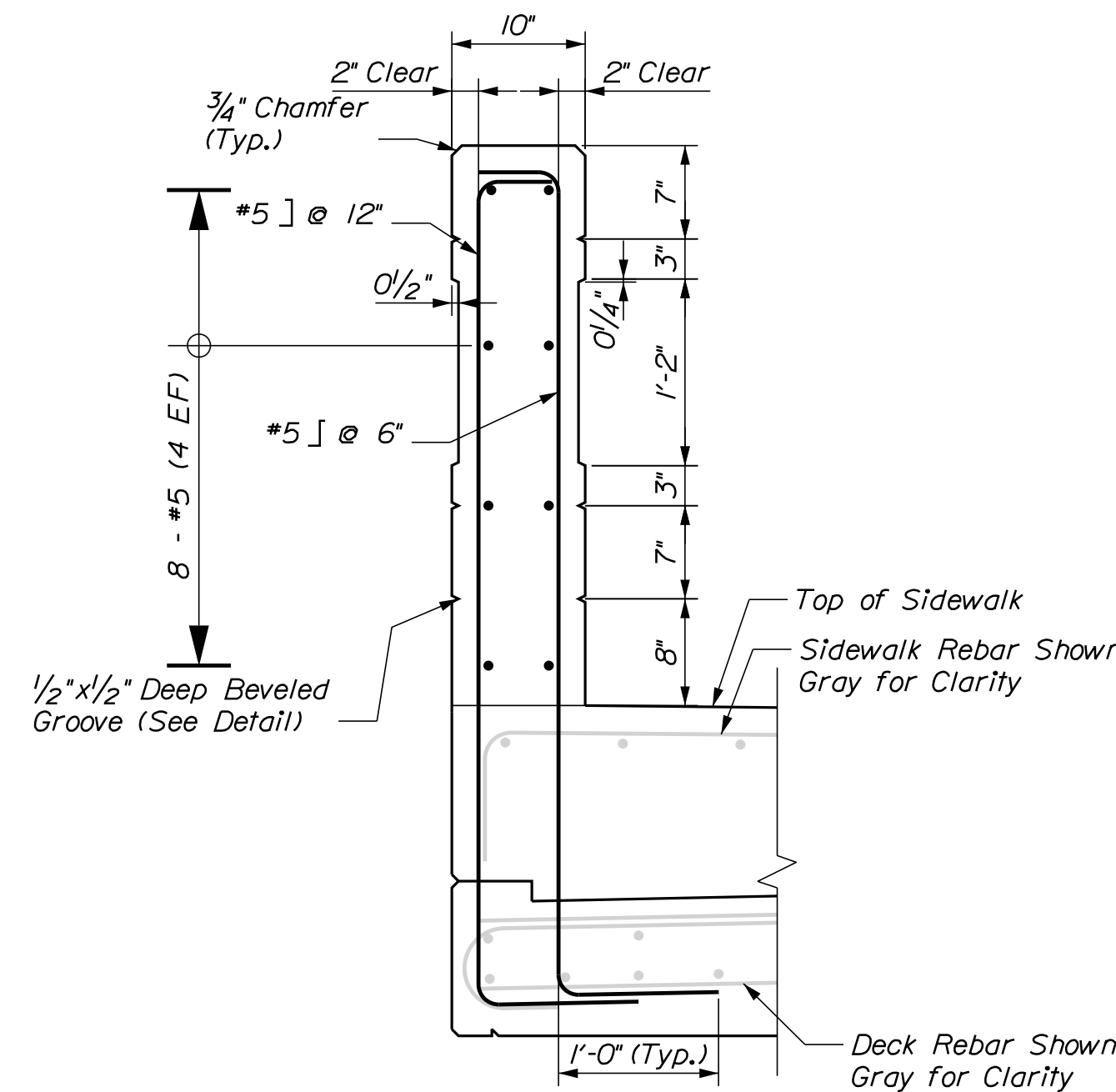
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(Roadway Side)



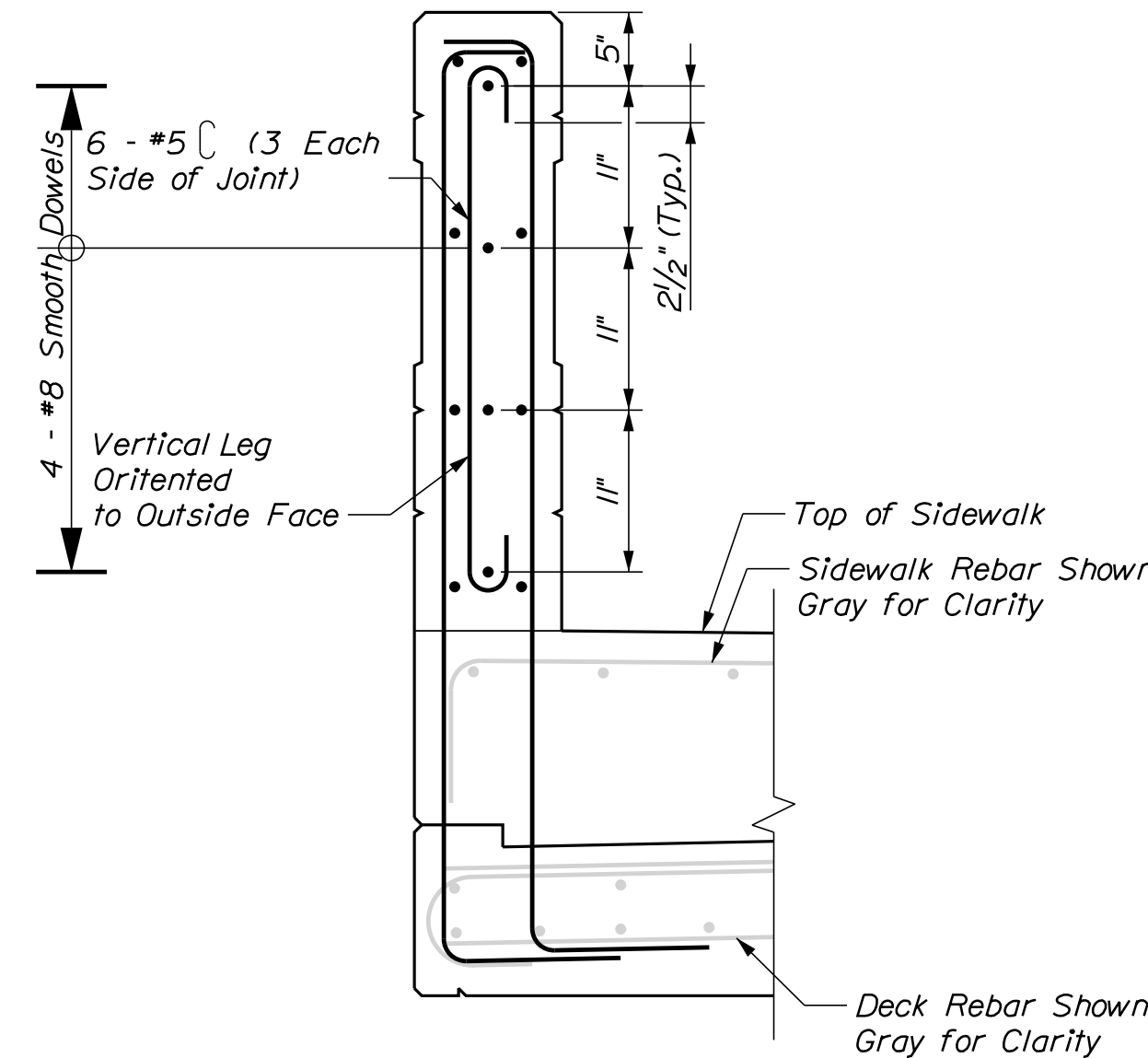
BRIDGE NO. 1 BARRIER PARTIAL ELEVATION - DETAIL



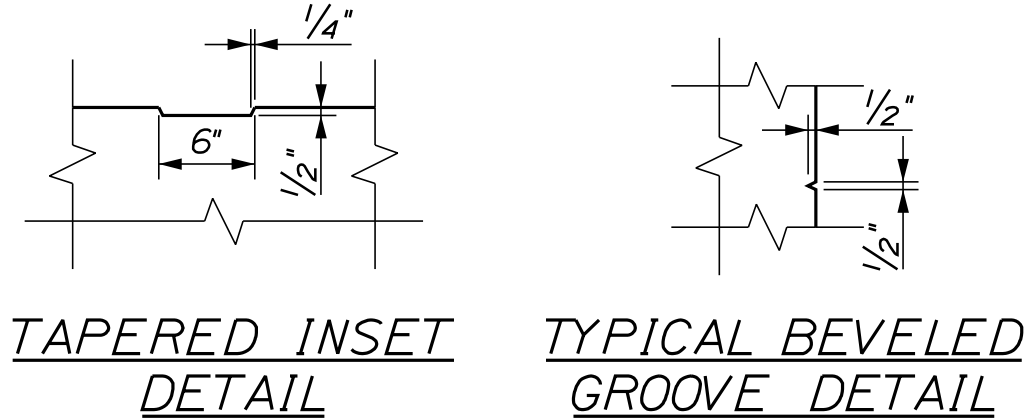
BRIDGE NO. 1 BARRIER PARTIAL PLAN - SECTION
(Detail at Abutment 1 Shown, Similar Elsewhere)



BRIDGE BARRIER - TYPICAL SECTION
(Section Shown at Sidewalk, Roadway Section Similar)



BRIDGE BARRIER - TYPICAL SECTION AT JOINT
(Section Shown at Sidewalk, Roadway Section Similar)



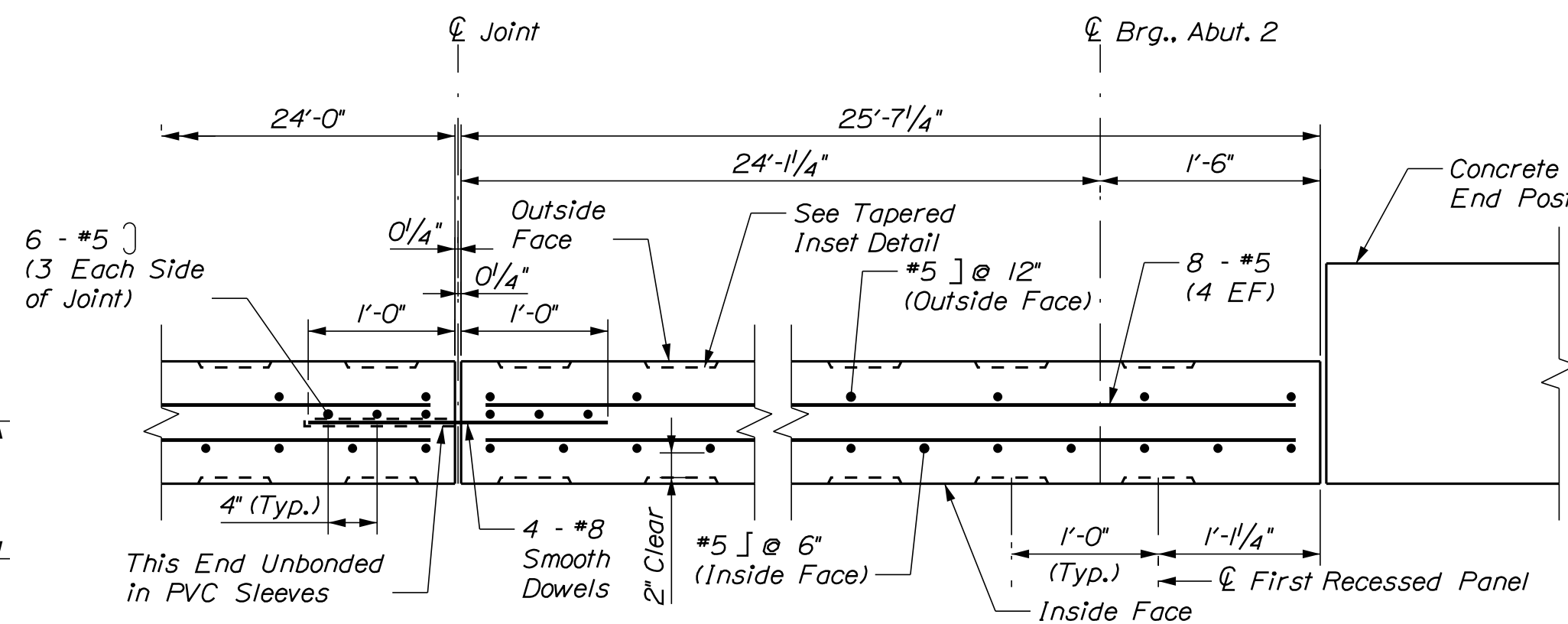
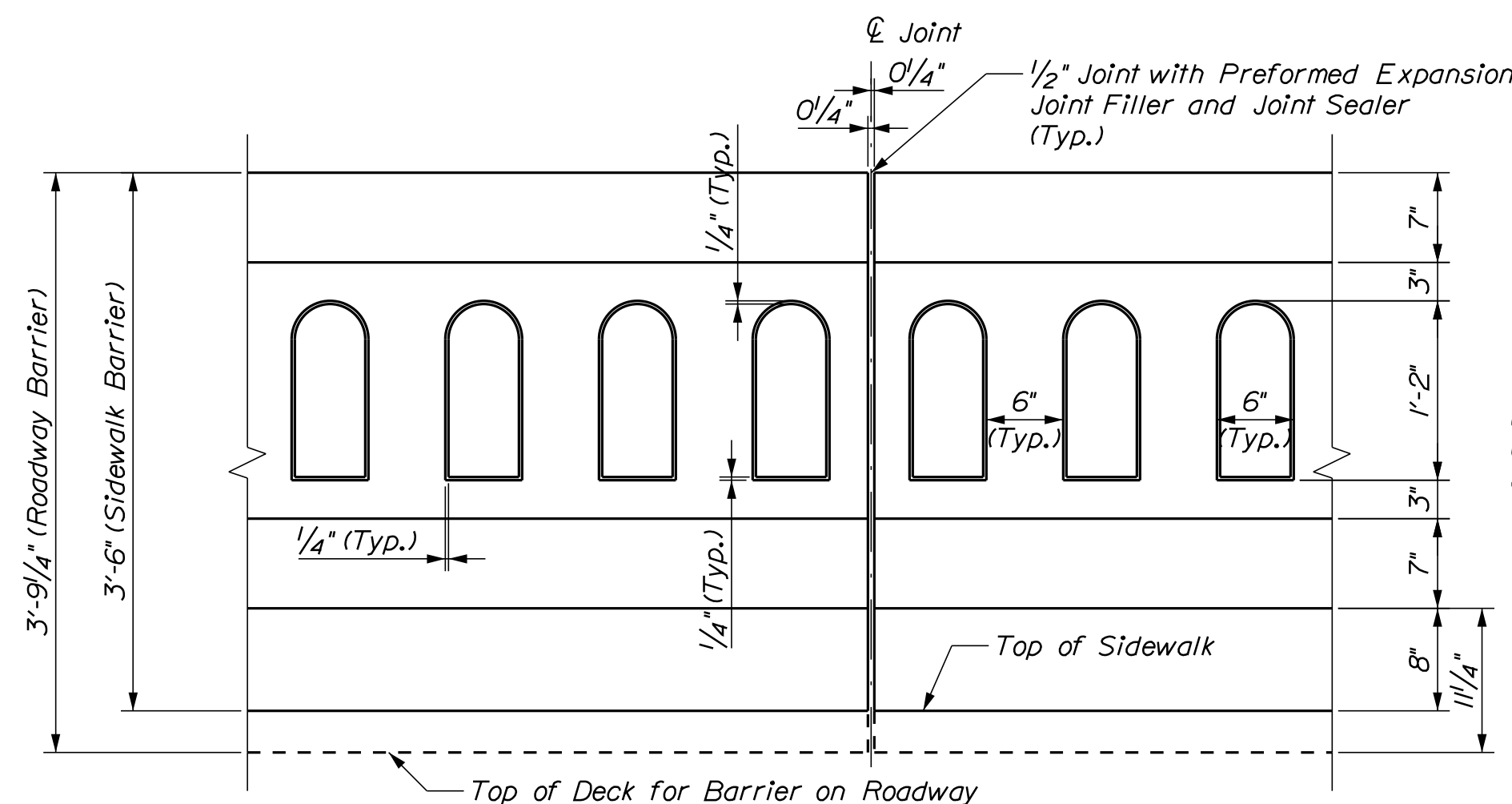
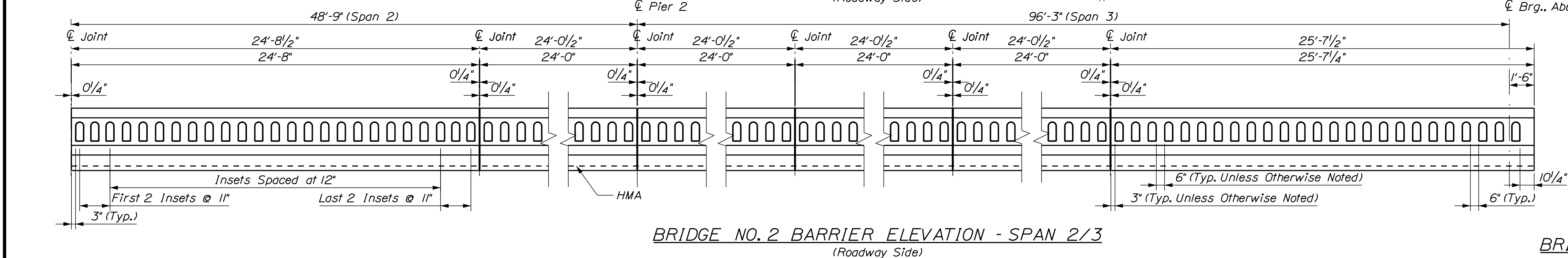
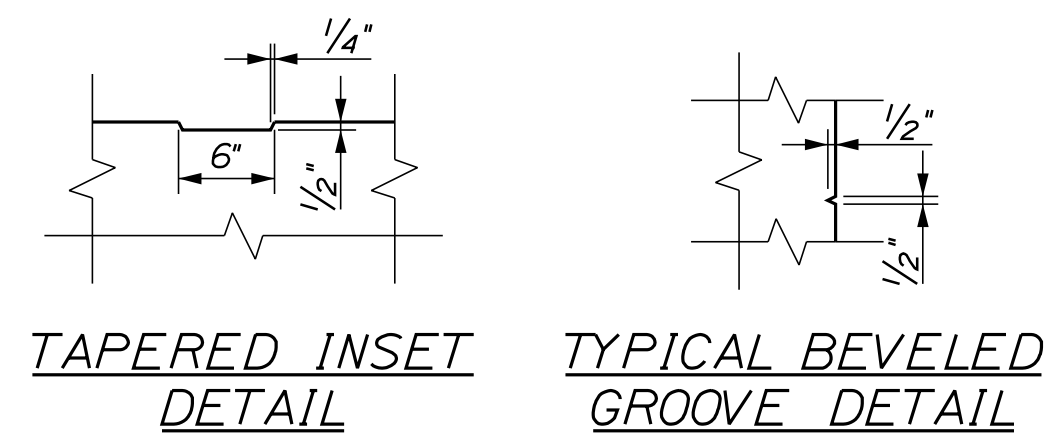
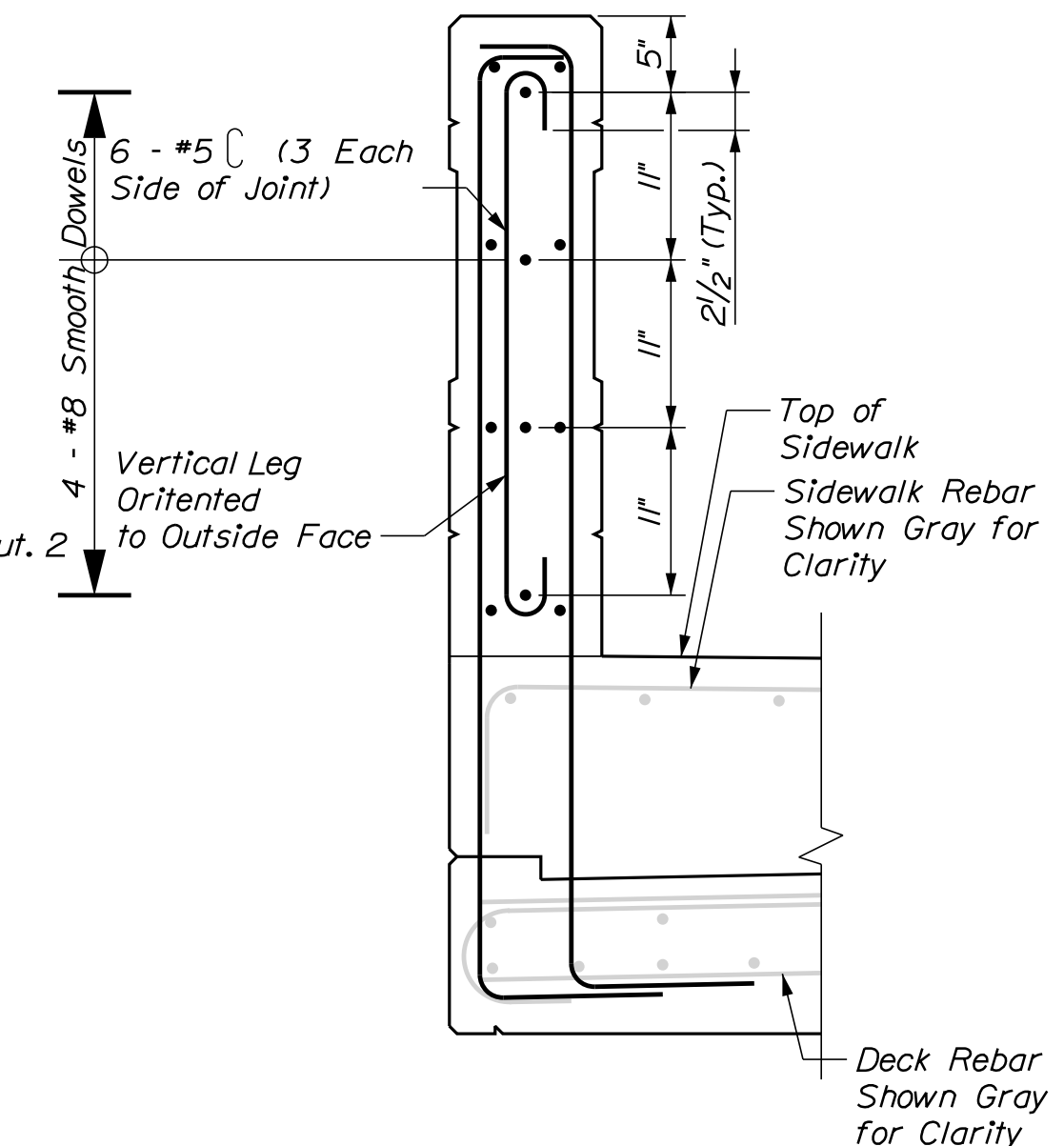
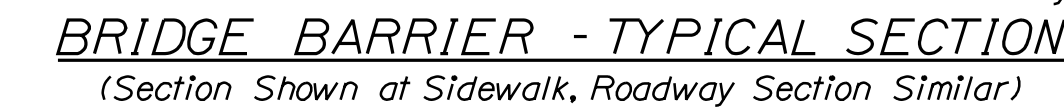
TAPERED INSET DETAIL
TYPICAL BEVELED GROOVE DETAIL

BRIDGE BARRIER NOTES

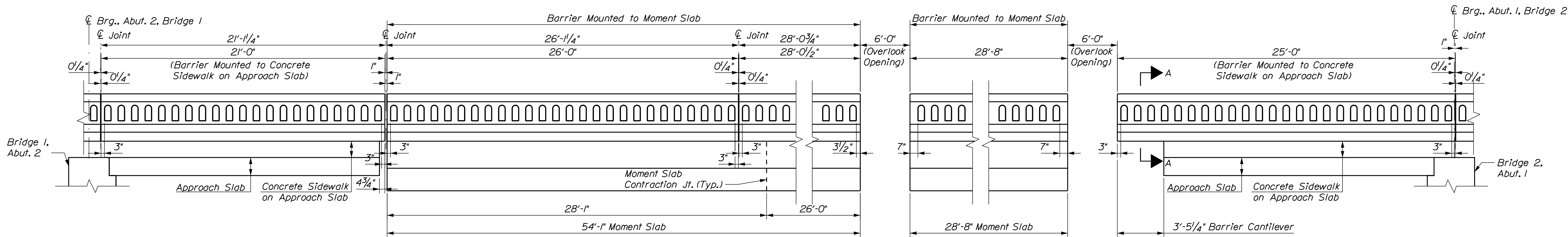
1. PVC sleeves at bridge barrier joints shall be 1/2" x 4" Sched. 80 with cap. All costs shall be considered incidental to the related Contract Items.
2. Preformed Expansion Joint Filler shall conform to the requirements of AASHTO M213. All costs shall be considered incidental to the related Contract Items.
3. All barrier reinforcement shall be considered part of Item 526.341.



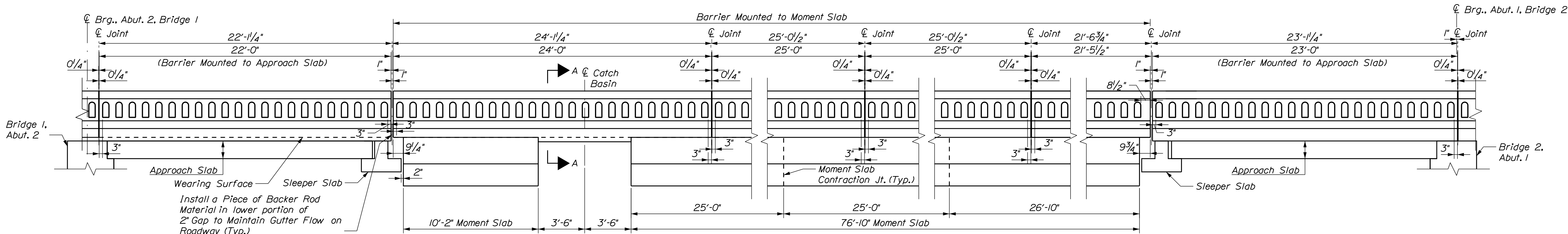
STATE OF MAINE				DEPARTMENT OF TRANSPORTATION			
STP-2251(200) & STP-2251(100)				BRIDGE NO. 1472 BRIDGE NO. 2806			
WIN 022512.02				WIN 022511.02			
BRIDGE PLANS							
LLEWELLYN ESTES BRIDGES				PENOBSCOT COUNTY			
STILLWATER RIVER				BRIDGE 1			
OLD TOWN				BARRIER DETAILS			
SHEET NUMBER				D65			
				OF D77			



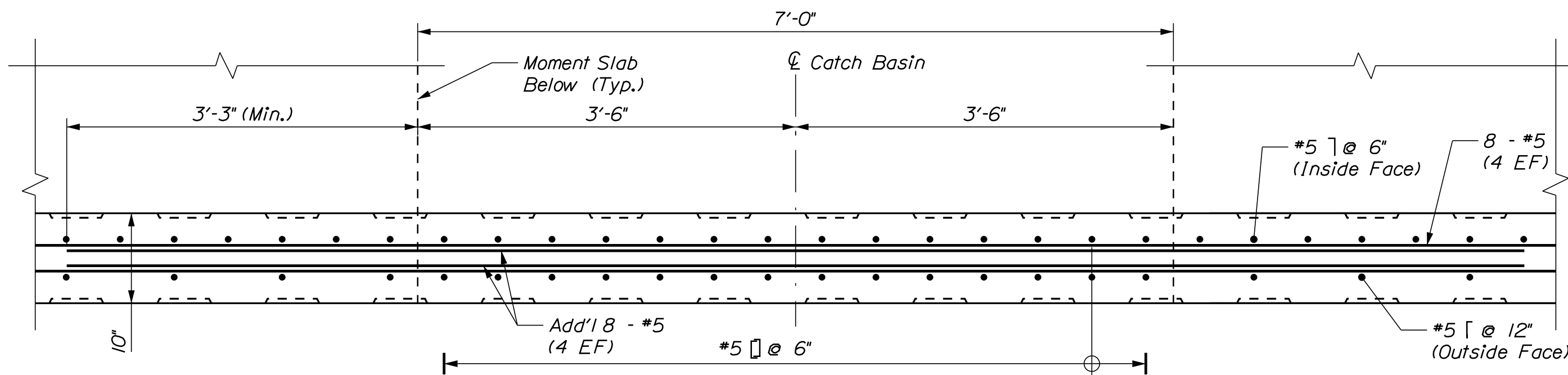
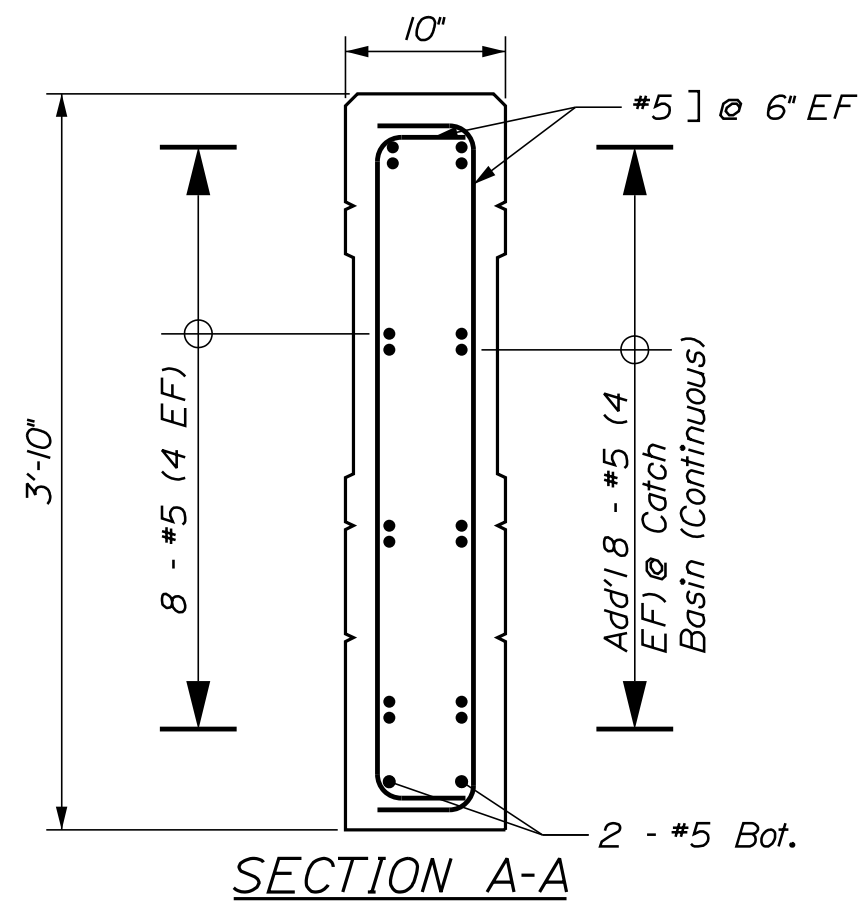
1. *PVC sleeves at bridge barrier joints shall be 1/4"Ø Sched. 80 with cap. All costs shall be considered incidental to the related Contract Items.*
2. *Preformed Expansion Joint Filler shall conform to the requirements of AASHTO M213. All costs shall be considered incidental to the related Contract Items.*
3. *All barrier reinforcement shall be considered part of Item 526.341.*



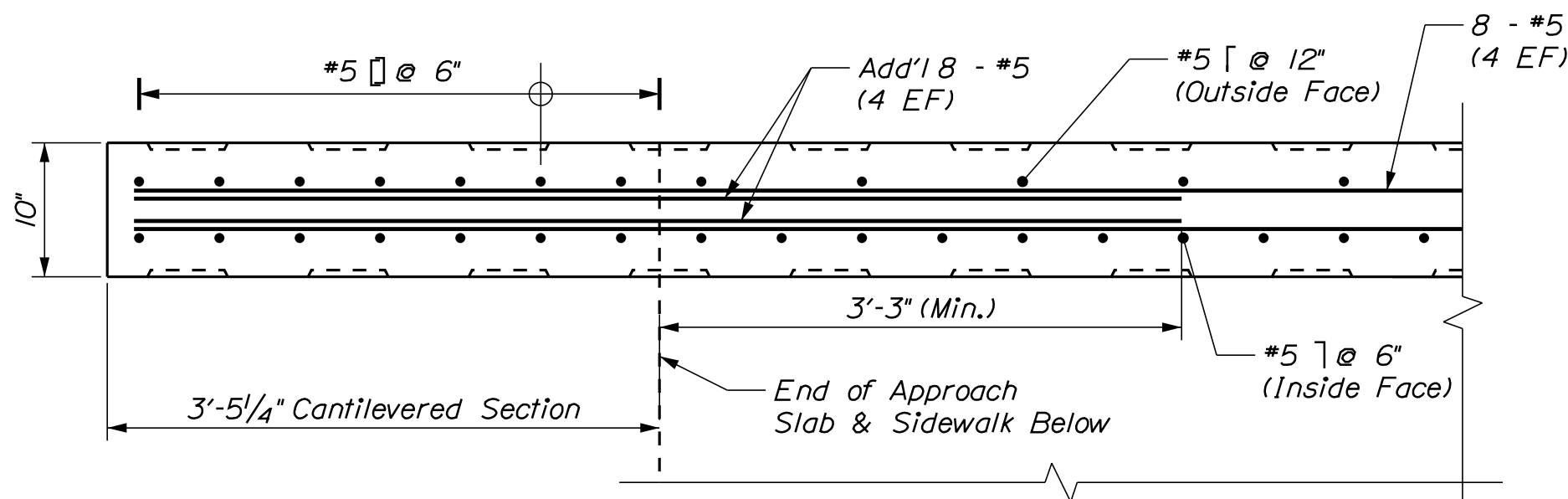
ISLAND BARRIER ELEVATION
(Sidewalk Side)



ISLAND BARRIER ELEVATION
(Roadway Side)



ISLAND BARRIER @ CATCH BASIN BLOCKOUT



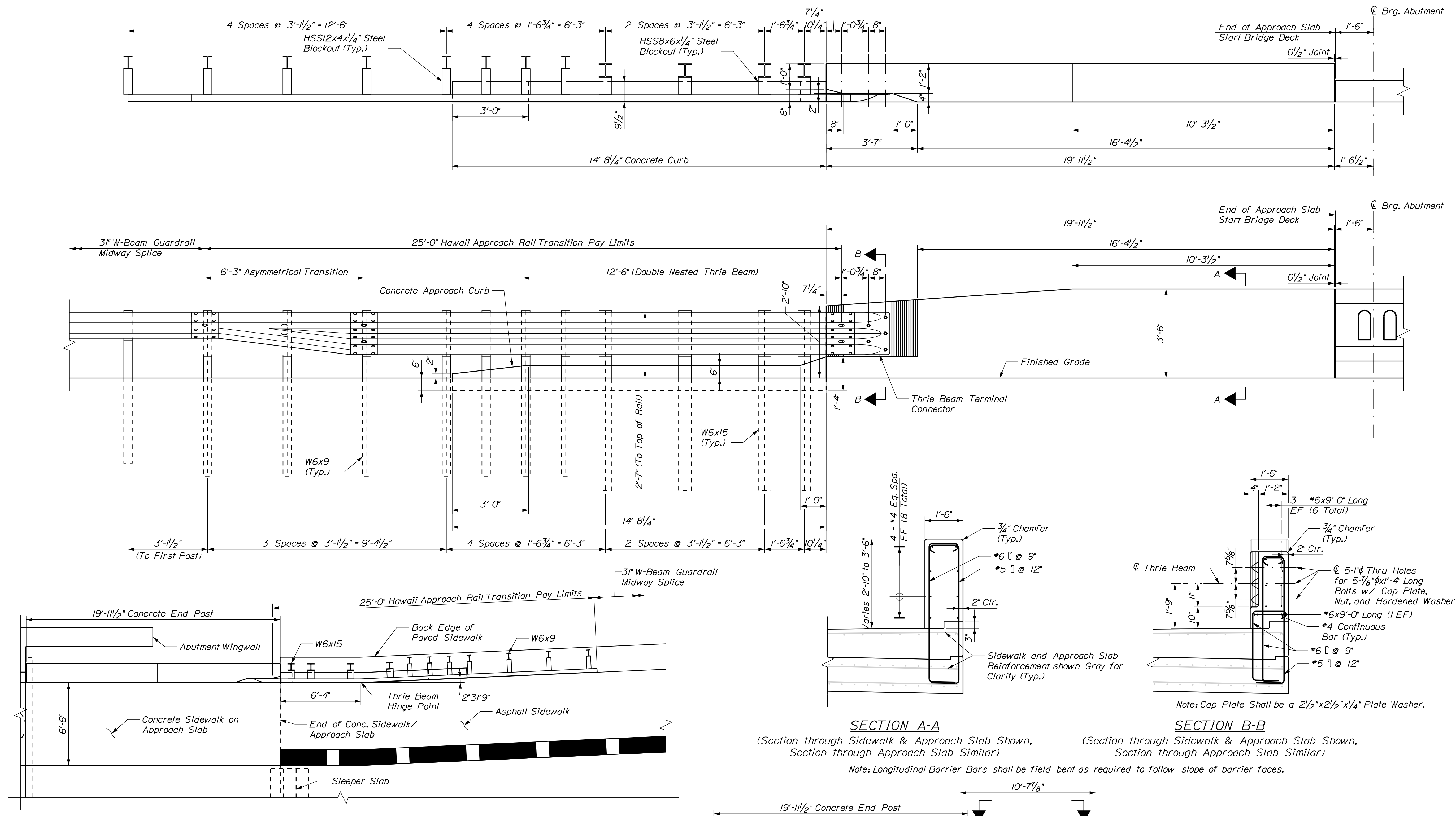
ISLAND BARRIER CANTILEVER
(Bridge 2, Abutment 1, Southwest Barrier)

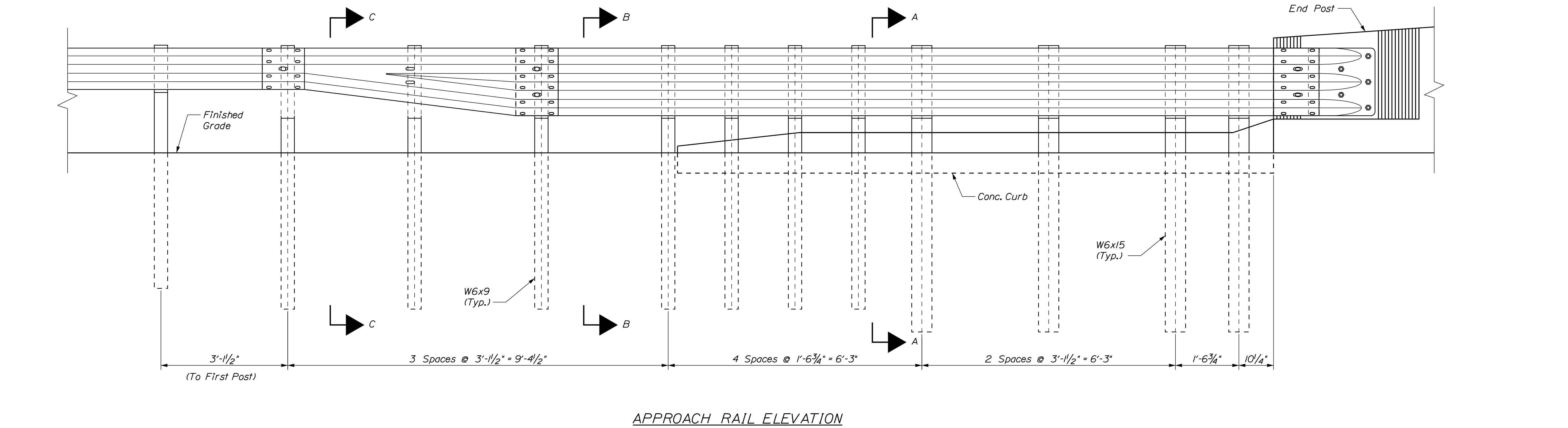
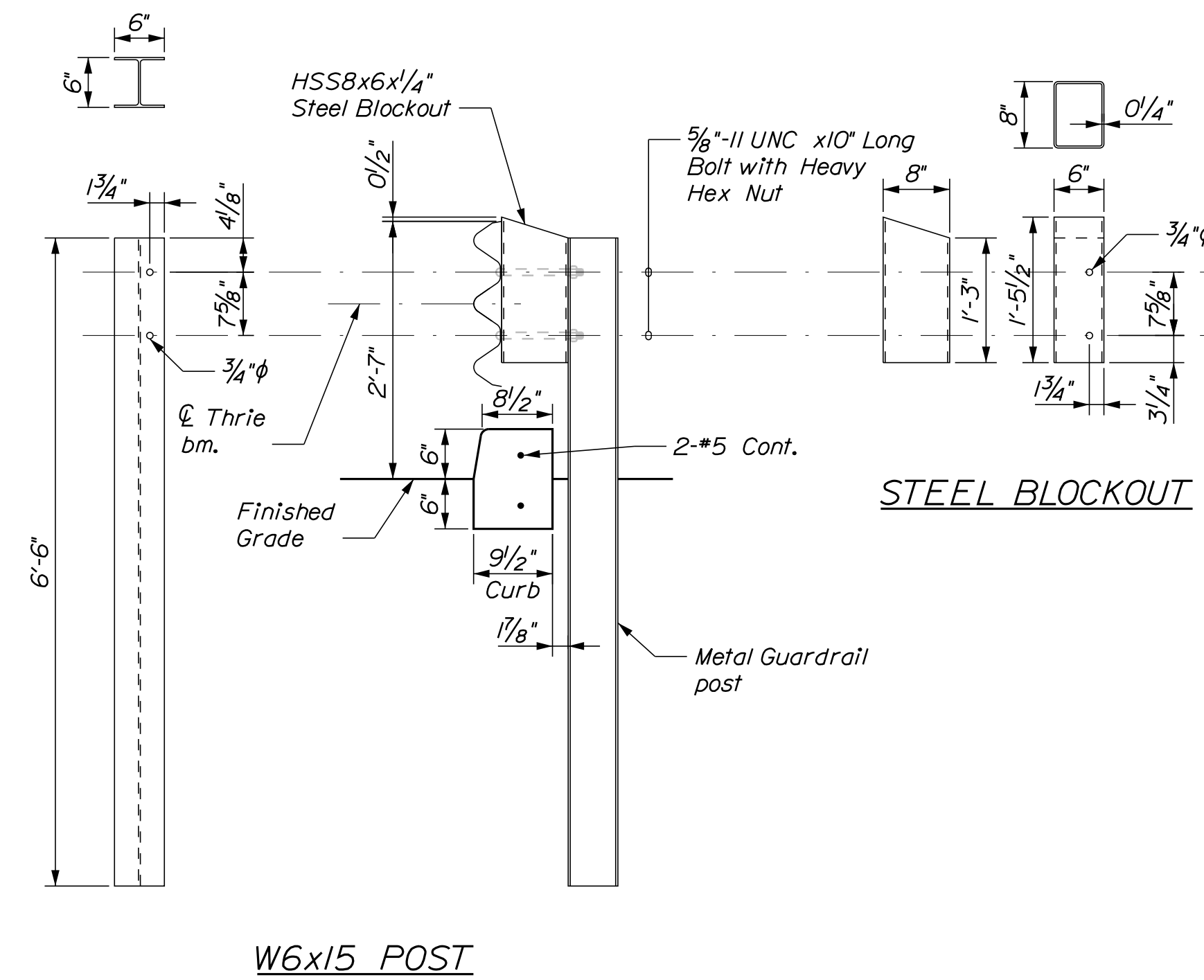
ISLAND BARRIER NOTES

1. Refer to Bridge 2 Barrier Details for typical barrier geometry and reinforcement.
2. Refer to Bridge 2 Barrier Details for typical joint details.

PROJ. MANAGER	GERALD DOSTIE	BY	DATE
DESIGNED-DETAILED	G. ERICKSON	T. POLSON	9/2025
CHECKED-REVIEWED	G. ERICKSON	T. POLSON	9/2025
DESIGNED-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

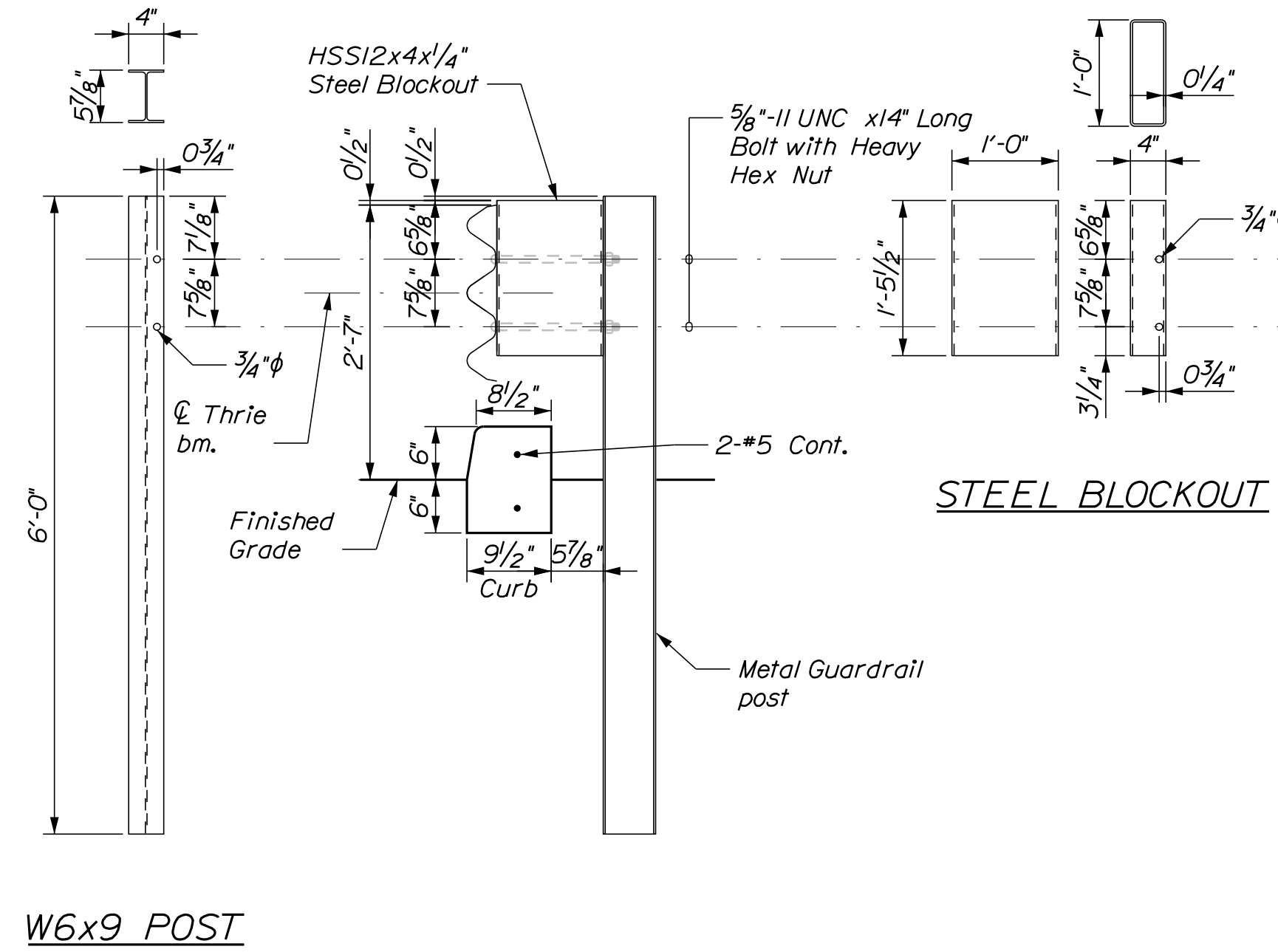




APPROACH RAIL ELEVATION

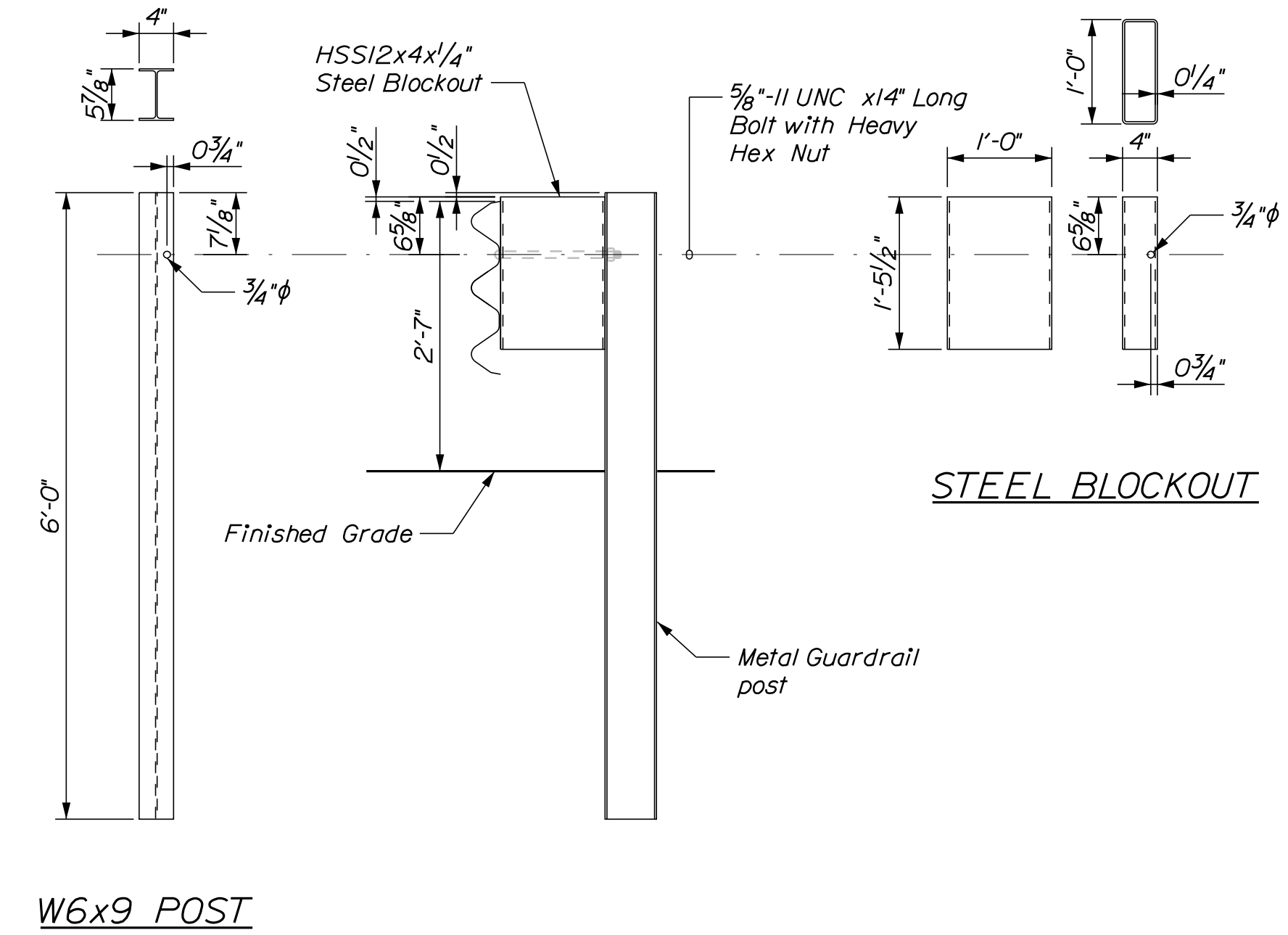
W6x15 POST

SECTION A-A



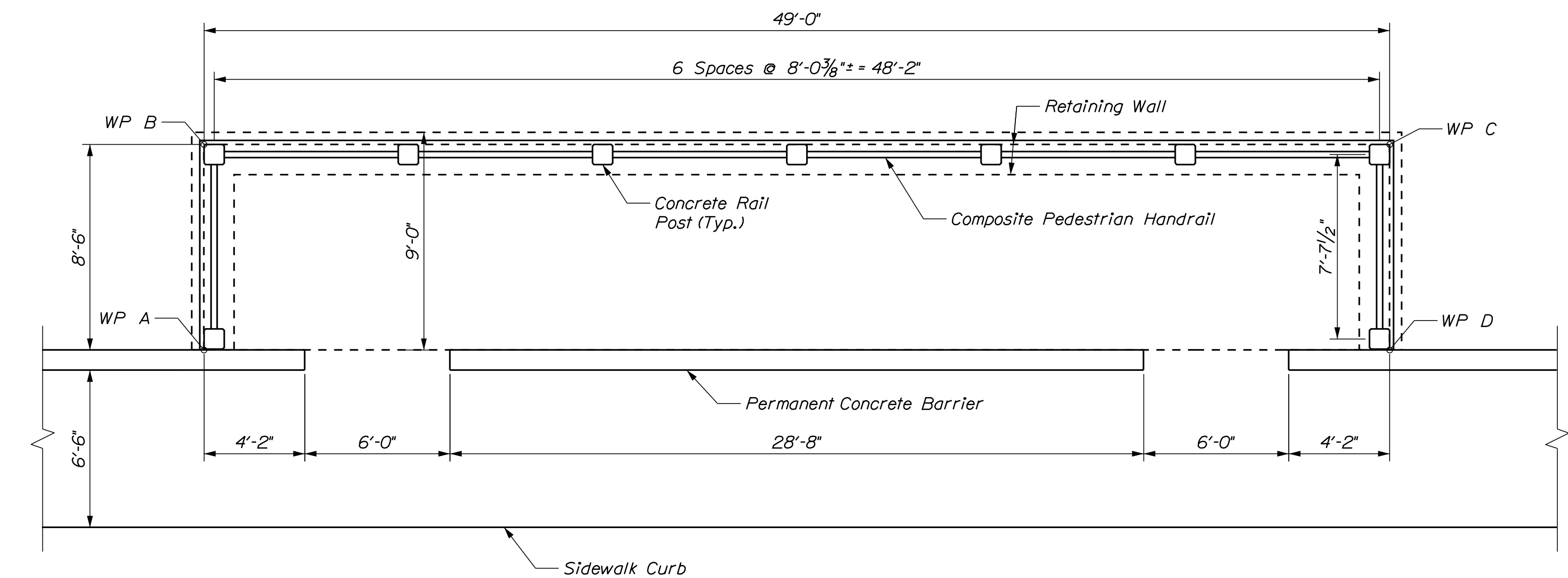
W6x9 POST

SECTION B-B

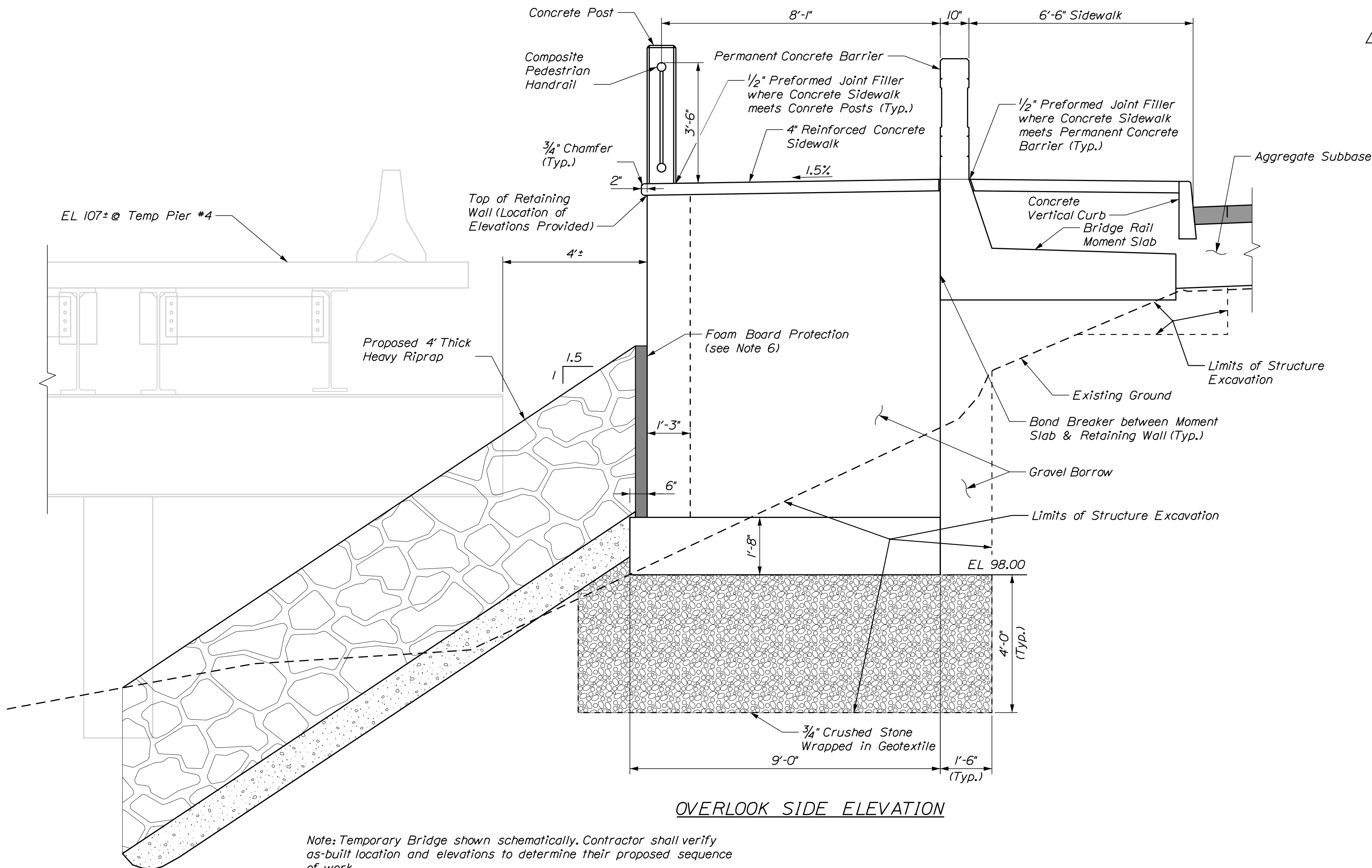


W6x9 POST

SECTION C-C



OVERLOOK PLAN
(Riprap Not Shown for Clarity)

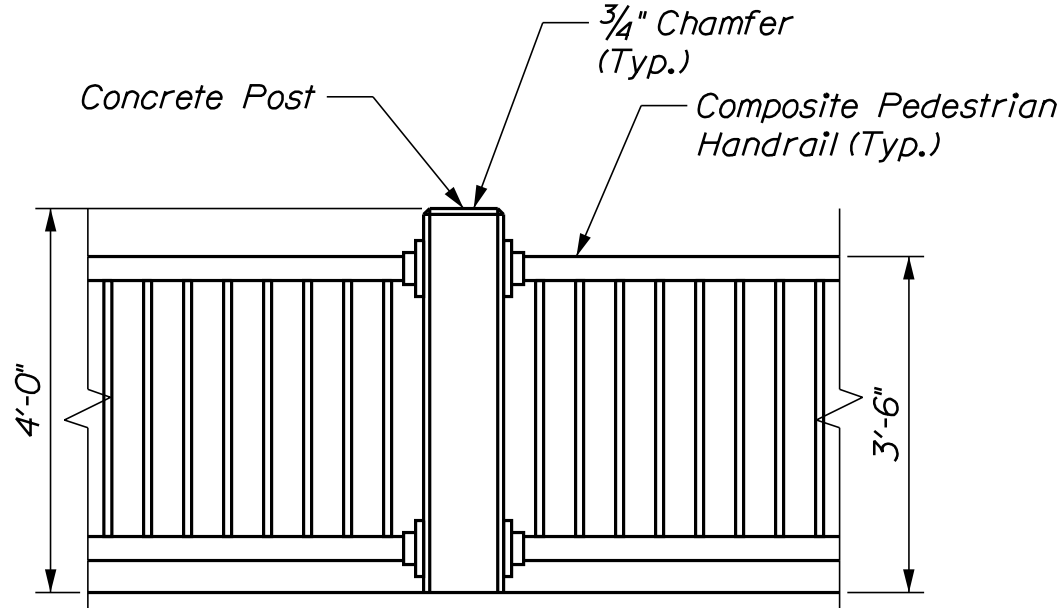


Note: Temporary Bridge shown schematically. Contractor shall verify as-built location and elevations to determine their proposed sequence of work.

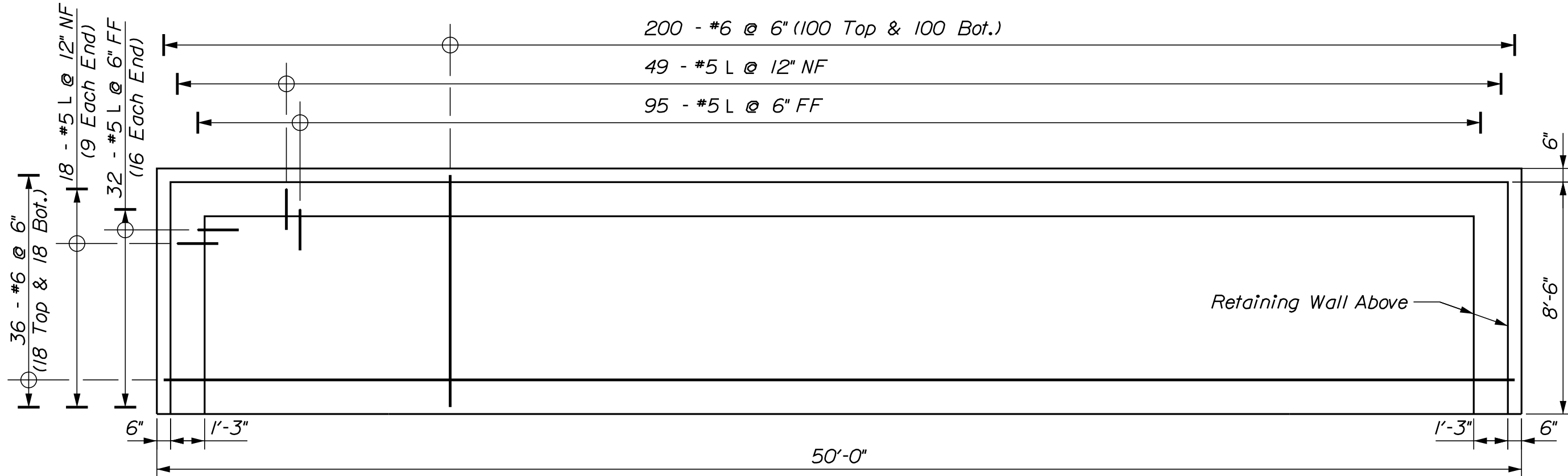
TOP OF WALL ELEVATIONS			
Working Point	Station	Offset (FT)	Elevation (FT)
WP A	25+04.48	24.33 LT	109.10
WP B	25+04.48	32.83 LT	108.97
WP C	25+53.48	32.83 LT	109.22
WP D	25+53.48	24.33 LT	109.35

OVERLOOK NOTES

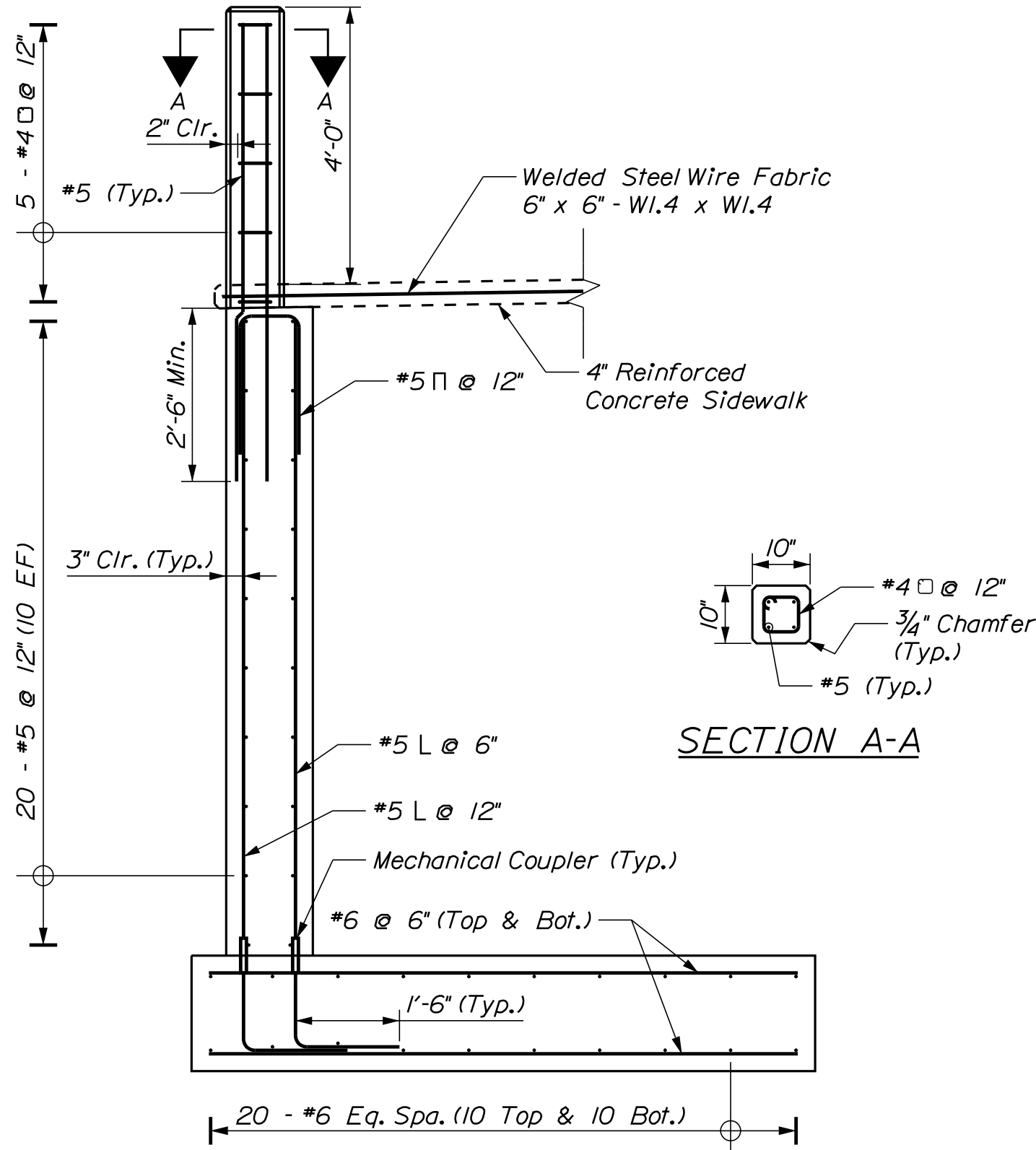
- All reinforcing steel shall be Low-Carbon Chromium Steel.
- Reinforcing steel in the retaining wall shall have a minimum concrete cover of 3 inches.
- Bedrock encountered within 1'-0" below the bottom of the wall footing shall be removed.
- Concrete posts for the pedestrian handrail shall be paid under Item 502.49. Payment for the design, fabrication and installation of the composite pedestrian handrail will be paid for under a separate contract.
- Contractor shall protect the concrete retaining wall and footing from damage when placing heavy riprap. Foam board is shown conceptually as an option. All costs associated with protecting the retaining wall and footing shall be considered incidental to the related Contract Items.
- Preformed expansion joint filler and sealant shall be considered incidental to the related Contract Items.
- 3/4" crushed stone shall be clean, washed, and placed and tamped or compacted in 12-inch loose lifts. Crushed stone bedding layer under the footing shall be wrapped in geotextile separation fabric to prevent the migration of fines into the crushed stone mass.
- Concrete for the overlook retaining wall and footing shall be paid under Item 502.219 Structural Concrete, Abutments and Ret. Walls.



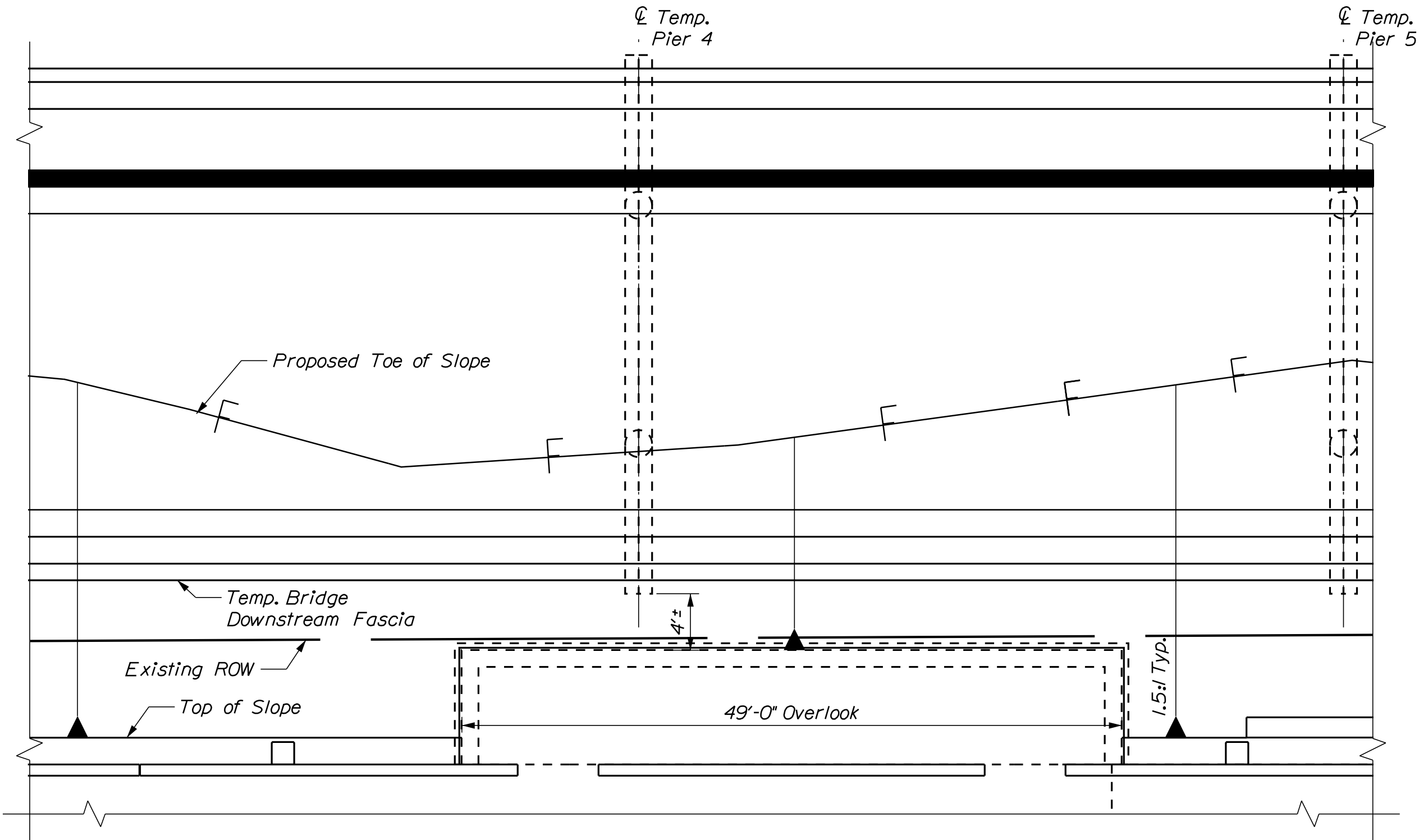
STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2251(200) & STP-2251(100)	SIGNATURE			
	P.E. NUMBER			
	DATE			
LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY	PROJ. MANAGER	GERALD DOSTIE	DATE	9/2025
	CHECKED-REVIEWED	T. POLSON G. ERICKSON	DATE	9/2025
	DESIGN-DETAILED	Revision to Note 8	DATE	10/2025
OVERLOOK DETAILS	REVISIONS 1			
	REVISIONS 2			
	REVISIONS 3			
SHEET NUMBER		D70		
OF D77				
BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02		
		BRIDGE PLANS		



FOOTING PLAN



REINFORCING SECTION



OVERLOOK & TEMPORARY BRIDGE PARTIAL PLAN
(Riprap Not Shown for Clarity)



LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	STP-2251(200) & STP-2251(100)			
	BRIDGE NO. 1472 BRIDGE NO. 2806			
OVERLOOK REINFORCING	PROJ. MANAGER	GERALD DOSTIE	BY	DATE
	CHECKED-DETAILED	T. POLSON	T. POLSON	9/2025
	DESIGNED-DETAILED	G. ERICKSON	G. ERICKSON	9/2025
SHEET NUMBER D71 OF D77	SIGNATURE		P.E. NUMBER	
	DATE		DATE	
	FIELD CHANGES		BRIDGE PLANS	

Lighting and Electrical General Notes:

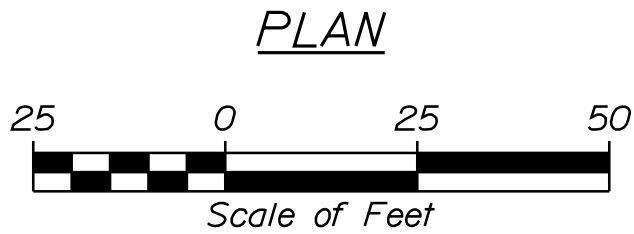
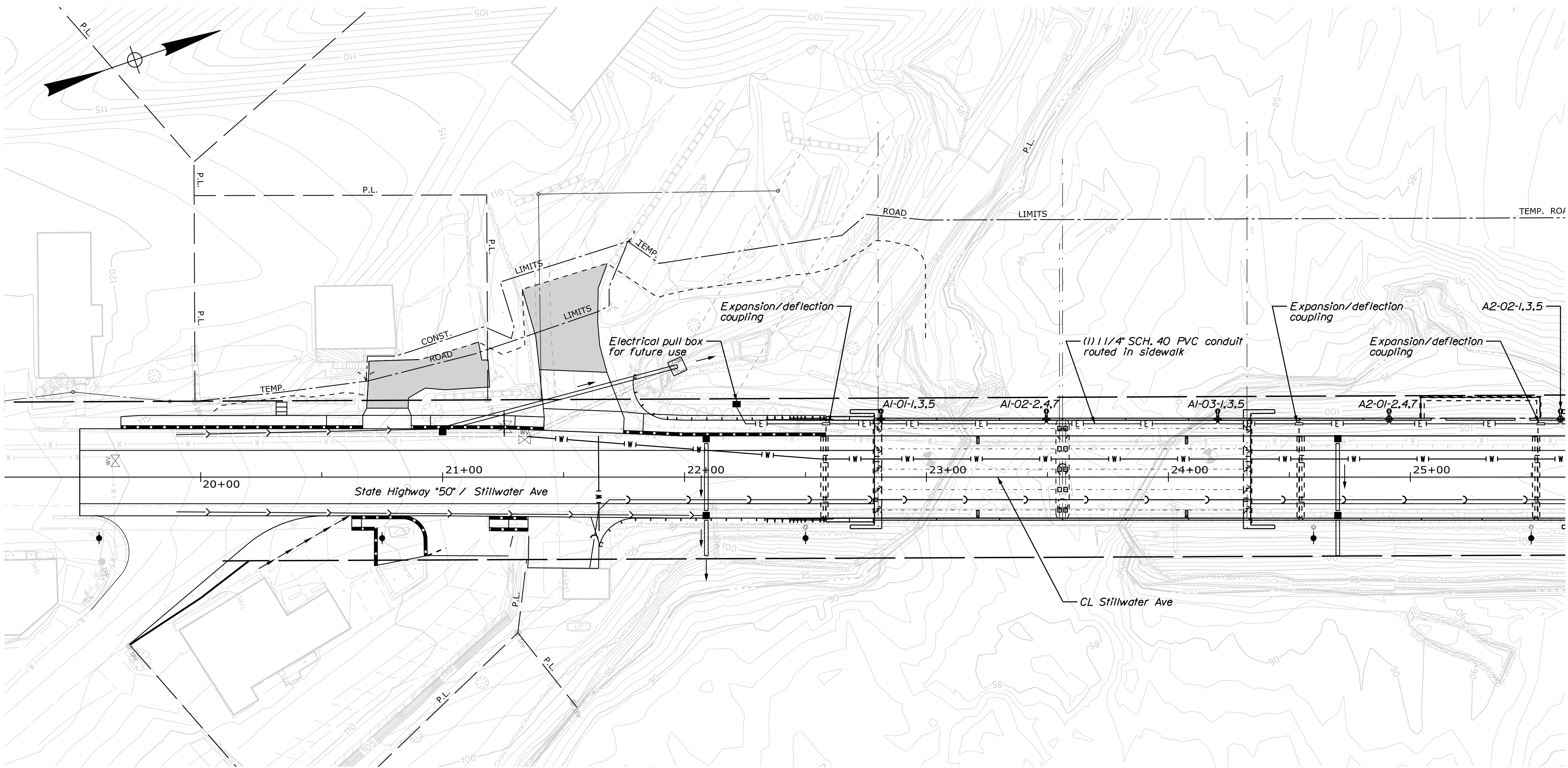
- 3. Scope of Work - install LED pedestrian post top lights as shown on these plans, Connect to new power service. Furnish and install conduit, junction boxes, LED luminaires, wiring, and related hardware.*
- 2. The contract drawings are diagrammatic in nature and not every detail or exact location of equipment and/or conduit is shown. Verify all conditions and dimensions in the field before commencing any fabrication, ordering any material or performing any work. Notify the Engineer of any conditions or dimensions, which would affect the performance of work in accordance with the Contract Drawings and Specifications.*
- 3. The locations of existing subsurface utilities shown on the plans were compiled from available surveys and are not warranted to be correct. The Contractor shall notify all agencies required and verify the location of all existing subsurface utilities prior to performing any work. The Contractor shall notify "Dig Safe" at 1-877-344-7233 at least 72 hours prior to the start of any excavation on the project.*
- 4. The Contractor shall coordinate all activities with other trades performing work within the project limits.*
- 5. The Contractor shall be required to procure project related items without adversely impacting the project schedule. It is the Contractor's responsibility to submit the appropriate shop drawings as soon as possible to the Engineer.*
- 6. All equipment and material shall be U.L. listed for its intended purpose and shall be new, unless otherwise noted.*
- 7. All equipment and materials installed in outdoor areas shall be weather resistant and suitable for use in wet locations. Splices shall be made with exterior rated, weatherproof conductor connectors.*
- 8. All materials and workmanship shall conform to applicable provisions of the current editions of the 2020 Maine Department of Transportation Standard Specifications and Standard Details, 2023 National Electric Code (NEC), and any requirements of the power company.*
- 9. The wiring diagrams, quantity and size of wires and conduits represent a suggested arrangement based upon selected standard components of electrical equipment. Modifications acceptable to the Engineer may be made by the Contractor to accommodate equipment actually purchased. The basic sequence and method of control must be maintained as indicated on the drawings and/or specifications.*
- 10. Anchor bolt pattern for poles shall be the diameter and length as recommended and supplied by pole manufacturer.*
- 11. Contractor shall provide conduit and wire with enough slack for service connection to the lighting load center. Contractor shall coordinate with MaineDOT and the electric utility for service connection. Contractor shall be responsible for all electric service connections and related fees from the utility. Design is based on a maximum 25kVA, 120/240V, single-phase service at all locations.*
- 12. Installation of all underground conduit will comply with NEC requirements.*
- 13. All spare conduits shall have a minimum 210 LB tensile strength nylon pull string installed.*

- 4. Unless otherwise noted, all conduits shall be minimum 2" diameter. All conduit in the highway right of way shall be schedule 80 unless concrete-encased. All conduit installed underground between the transformer and the service lateral shall be concrete encased. Concrete encasement will be incidental to payment for conduit.*
- 15. Where lighting conduit is required to pass over drainage culverts and the specified burial depth of conduit cannot be maintained. The Contractor shall provide concrete protection of conduit in accordance with NEC Table 300.5.*
- 16. All wiring in the handholes, pull boxes, panel boards and cabinets shall be permanently labeled and neatly installed. Labelling shall be per MaineDOT standards.*
- 17. All light standards install on the bridge shall be bonded to the bridge structure rebar.*
- 18. The total number of bends within a conduit shall not exceed 360 degrees. A junction box or pull point shall be installed by the Contractor per NEC requirements.*
- 19. Cap and/or seal exposed ends of conduit to prevent intrusion of moisture or rodents. Payment for conduit will be made under item 626.22.*
- 20. Branch circuits shall not use a common neutral. All circuits shall have a minimum conductor size of #12 AWG, copper unless noted otherwise.*
- 21. Wire size shall be based on American Wire Gauge (AWG), all wire shall be copper conductors type XHHW-2.*
- 22. The wire in conduits shall be continuous with no splices between poles, except as noted. Junction boxes shown on the plans are in approximate locations and are intended for use only as a pull box for wire pulling access unless noted otherwise.*
- 23. Metal frames and conductive covers of junction boxes shall be bonded to the grounding conductor.*
- 24. Payment for grounding electrodes and ground wire conduit shall be included in Item 634.160 Highway Lighting.*
- 25. Where the number of current carrying conductors in a conduit or cable exceeds three, the allowable ampacity shall be reduced per NEC requirements, consider neutrals to be current carrying conductors.*
- 26. The Contractor shall refer to Section 634 for highway lighting design and installation requirements. Payment under Highway lighting will include all materials, labor, and equipment necessary to provide a fully functioning lighting system, including electrical service connection and all related fees from the utility, except those items to be paid under other related bid items in the contract.*
- 27. New luminaire voltage shall be 240 volts. Pole mounted GFCI receptacles shall be 120V, always on loads.*
- 28. New luminaires A1, A2, and A3 shall be LED post tops per the luminaire schedule.*
- 29. Upon project completion, the Contractor shall furnish a set of as-built plans to Engineer.*
- 30. The load center shall be located at least 3-ft behind guardrail and in such a way that a minimum of 3-foot clearance is maintained in front of the cabinet door and the utility meter and disconnect.*

Abbreviations:

A
AFR AMPERE
AIC ABOVE FINISH ROADWAY
AWG AMPERE INTERRUPTING CAPACITY
BKR AMERICAN WIRE GAUGE
C BREAKER
CB CONDUIT OR CONTACTOR
CCT CIRCUIT BREAKER
CIP CORRELATED COLOR TEMPERATURE
CKT CAST IN PLACE
CONC. CIRCUIT
CU CONCRETE
D/S COPPER
DET. DISCONNECT SWITCH
DIA DETAIL
DIM DIAMETER
DWG DIMENSION
EA DRAWING
EQPT EACH
EXIST. EQUIPMENT
GA. EXISTING
GALV. GUAGE
GFCI GALVANIZED
GND GROUND FAULT CIRCUIT INTERRUPTER
HDG GROUND
HH HOT DIPPED GALVANIZED
J HANDHOLE
KCMIL JUNCTION BOX
KVA THOUSAND CIRCULAR MILS
LED KILOVOLT AMPERE
LFMC LIGHT EMITTING DIODE
LTG LIQUID TIGHT FLEXIBLE METAL CONDUIT
MANUF. LIGHTING
MAX. MANUFACTURER
MCB MAXIMUM
MIN. MAIN CIRCUIT BREAKER
N.T.S. MINIMUM
NB NOT TO SCALE
NIC NORTH BOUND
NO. NOT IN CONTRACT
PB NUMBER
PC PULL BOX
PH PHOTOCELL
PIL PHASE
PWR PANEL
REC. POWER
SB RECEPTACLE
SCH. SOUTH BOUND
SPEC. SCHEDULE
SS SPECIFICATION
STA STAINLESS STEEL
STD STATION
TYP. STANDARD
U.N.O. TYPICAL
V. UNLESS NOTED OTHERWISE
W. VOLT OR VOLTAGE
W/ WATT
W/ WITH

Luminaire Schedule										
Type	Qty	Manufacturer	Catalog Number	Description	Pole Height (FT)	Initial Lumen Output (lm)	CCT	Distribution	Wattage (W)	Voltage (V)
A1	7	Sternberg	Luminaire: PT-E350LED-UF-12L-40K-T3-MDL010-GL-R7-SC-BKT Pole: 4500 Decatur 45-10-P4-.188-GFI LPIUC-BDBA9-BKT	LED post top pedestrian light with flat acrylic, lens and utility fitter. 4000K, IES Type III distribution, maximum B1-U0-G1 BUG rating, 2930 initial lumen output. Include 7-pin photocell receptacle with shunting cap. 120-277V driver, maximum 35-watt. IP65 rated. Luminaires shall be installed on a 10-foot, straight smooth aluminum pole with a minimum 3/16" wall thickness. A 15-amp duplex GFCI receptacle with a low-profile, weatherproof while-in-use cover. Factory installed, maximum size 18"W x 36"L banner arms shall be designed to break-away in a 90mph wind gust. Pole and luminaire shall have a black textured finish. All components shall be UL rated for wet location.	10	2930	4000K	Type III	33	240
A2	2	Sternberg	Luminaire: PT-E350LED-UF-12L-40K-T3-MDL010-GL-R7-SC-BLOC-BKT Pole: 4500 Decatur 45-10-P4-.188-GFI LPIUC-BDBA9-BKT	LED post top pedestrian light with flat acrylic, lens and utility fitter. 4000K, IES Type III distribution with back light optical control, maximum B1-U0-G1 BUG rating, 2930 initial lumen output. Include 7-pin photocell receptacle with shunting cap. 120-277V driver, maximum 35-watt. IP65 rated. Luminaires shall be installed on a 10-foot, straight smooth aluminum pole with a minimum 3/16" wall thickness. A 15-amp duplex GFCI receptacle with a low-profile, weatherproof while-in-use cover. Factory installed, maximum size 18"W x 36"L banner arms shall be designed to break-away in a 90mph wind gust. Pole and luminaire shall have a black textured finish. All components shall be UL rated for wet location.	10	2930	4000K	Type III	33	240
A3	1	Sternberg	Luminaire: PT-E350LED-UF-16L-40K-T4-MDL010-GL-R7-SC-BLOC-BKT Pole: 4500 Decatur 45-14-P4-.188-BKT	LED post top pedestrian light with flat acrylic, lens and utility fitter. 4000K, IES Type IV distribution with back light optical control, maximum B1-U0-G1 BUG rating, 4225 initial lumen output. Include 7-pin photocell receptacle with shunting cap. 120-277V driver, maximum 50-watt. IP65 rated. Luminaires shall be installed on a 14-foot, straight smooth aluminum pole with a minimum 3/16" wall thickness. Pole and luminaire shall have a black textured finish. All components shall be UL rated for wet location.	14	4225	4000K	Type IV	42	240



LEGEND

- Existing pole mounted 120/240V-IPH transformer
- Double o-ring conduit expansion/coupling with deflection capabilities
- Load center
- Utility pole mounted streetlight by others
- Conduit, 1 1/4", unless otherwise noted
- Type A1 light fixture
- Type A2 light fixture
- Type A3 light fixture
- Pole mounted GFCI duplex receptacle with low-profile, weatherproof while-in-use cover
- Pull box
- AI-01-* Fixture type - fixture number - Ckt. No.

For lighting notes, see Sheet D72.

Conduit and Conductor Schedule						
Luminaire ID	Sta.	Conduit	Circuit Type	Circuit No.	Conductors	Conductor Type
A1-01	22+78.7	1 1/4" PVC, SCH 40	GFCI Rec.	5	2#6, 1#6 GND	XH-HW-2 Cu
			Luminaire	1,3	2#10	XH-HW-2 Cu
A1-02	23+49.5	1 1/4" PVC, SCH 40	GFCI Rec.	7	2#6, 1#6 GND	XH-HW-2 Cu
			Luminaire	2,4	2#10	XH-HW-2 Cu
A1-03	24+20.4	1 1/4" PVC, SCH 40	GFCI Rec.	5	2#6, 1#6 GND	XH-HW-2 Cu
			Luminaire	1,3	2#10	XH-HW-2 Cu
A2-01	24+91.2	1 1/4" PVC, SCH 40	GFCI Rec.	7	2#6, 1#6 GND	XH-HW-2 Cu
			Luminaire	2,4	2#10	XH-HW-2 Cu
A2-02	25+62.1	1 1/4" PVC, SCH 40	GFCI Rec.	5	2#6, 1#6 GND	XH-HW-2 Cu
			Luminaire	1,3	2#10	XH-HW-2 Cu



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806
WIN 022512.02
WIN 022511.02
BRIDGE PLANS

LLEWELLYN ESTES BRIDGES
STILLWATER RIVER
OLD TOWN
PENOBSCOT COUNTY

SHEET NUMBER
D73
OF D77

PROJ. MANAGER
GERALD DOSTIE

CHECKED
REVIEWED
DESIGNED
DETAILS
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

BY
K. NEAL
A. CAMPBELL
C. FLEURBAEY

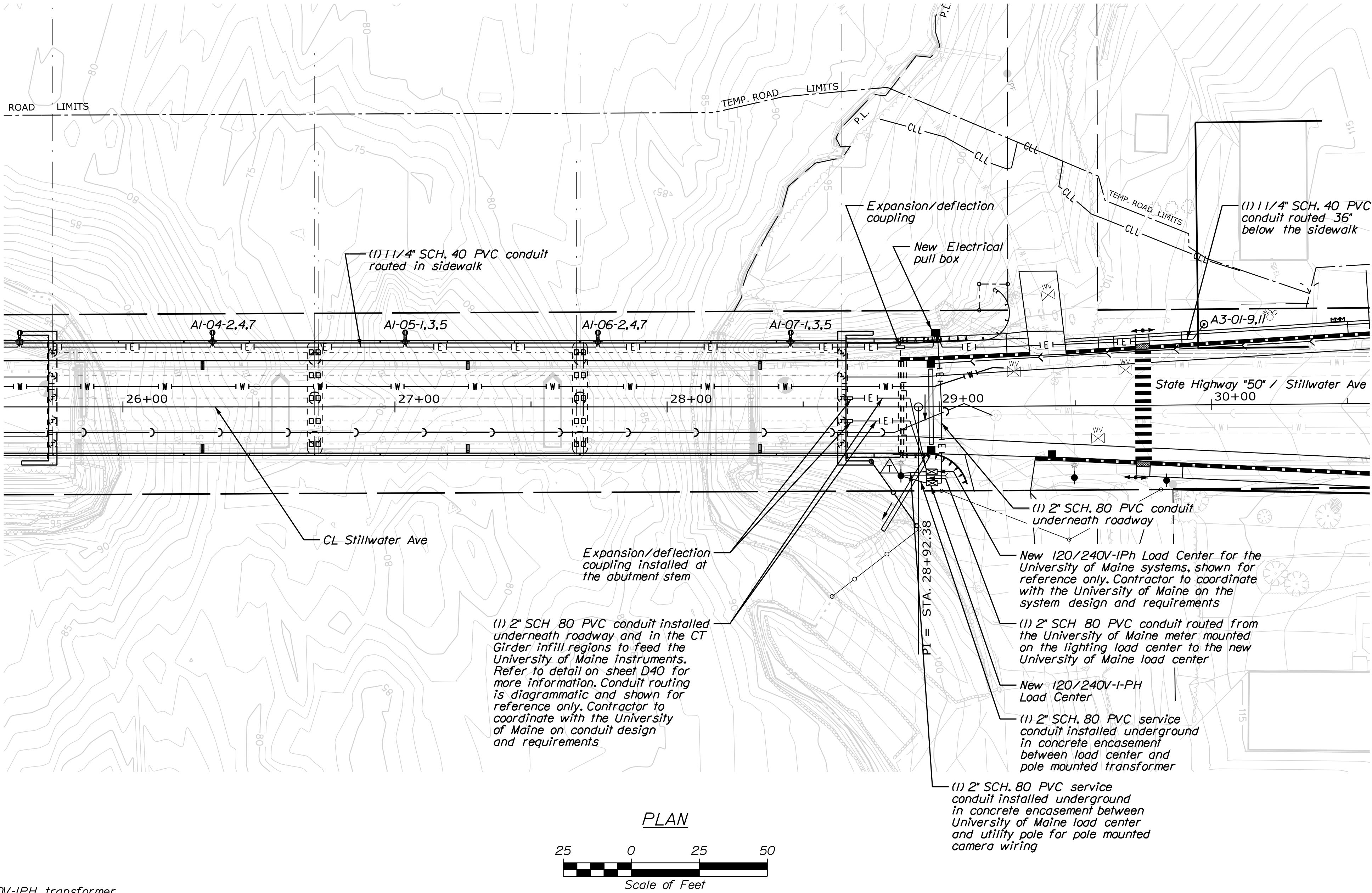
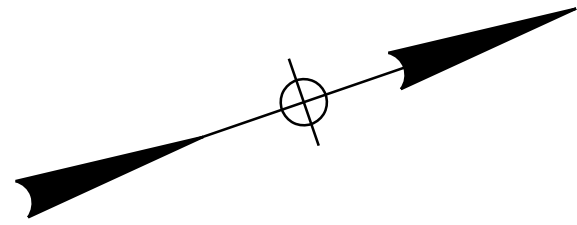
DATE
9/20/25
9/20/25
9/20/25

SIGNATURE

P.E. NUMBER

DATE

LIGHTING PLAN



LEGEND

- Existing pole mounted 120/240V-IPH transformer
- Double o-ring conduit expansion/coupling with deflection capabilities
- Load center
- Utility pole mounted streetlight by others
- Conduit, 1 1/4", unless otherwise noted
- Type A1 light fixture
- Type A2 light fixture
- Type A3 light fixture
- Pole mounted GFCI duplex receptacle with low-profile, weatherproof while-in-use cover
- Pull box
- A1-01-* Fixture type - fixture number - Ckt. No.
- For lighting notes, see Sheet D72.

Conduit and Conductor Schedule						
Luminaire ID	Sta.	Conduit	Circuit Type	Circuit No.	Conductors	Conductor Type
Load Center	29+00	2" PVC, SCH 80	MCB		3#1	XHHW-2 Cu
A1-04	26+32.9	1 1/4" PVC, SCH 40	GFCI Rec.	7	2#6, 1#6 GND	XHHW-2 Cu
			Luminaire	2,4	2#10	XHHW-2 Cu
A1-05	27+3.7	1 1/4" PVC, SCH 40	GFCI Rec.	5	2#6, 1#6 GND	XHHW-2 Cu
			Luminaire	1,3	2#10	XHHW-2 Cu
A1-06	27+74.6	1 1/4" PVC, SCH 40	GFCI Rec.	7	2#6, 1#6 GND	XHHW-2 Cu
			Luminaire	2,4	2#10	XHHW-2 Cu
A1-07	28+45.4	1 1/4" PVC, SCH 40	GFCI Rec.	5	2#6, 1#6 GND	XHHW-2 Cu
			Luminaire	1,3	2#10	XHHW-2 Cu
A3-01	29+97.8	1 1/4" PVC, SCH 40	Luminaire	9,11	2#10, 1#10 GND	XHHW-2 Cu



STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

STP-2251(200) & STP-2251(100)

BRIDGE NO. 1472
BRIDGE NO. 2806

WIN 022512.02
WIN 022511.02

BRIDGE PLANS

LLEWELLYN ESTES BRIDGES

STILLWATER RIVER

OLD TOWN

PENOBSCOT COUNTY

LIGHTING PLAN

PROJ. MANAGER

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

GERALD DOSTIE

R. DAVIELLA

A. WICZKOWSKI

C. FLEURBAEY

1

2

3

4

DATE

9/20/25

9/20/25

9/20/25

BY

K. NEAL

K. NEAL

SIGNATURE

P.E. NUMBER

DATE

SHEET NUMBER

D74

OF D77

Filename: ... \D75_Lighting Details 1.dgn

Division: BRIDGE

Username:

Date:10/20/2025



The diagram illustrates the cross-section of a conduit trench. The layers and dimensions are as follows:

- Finished grade, pavement:** The top surface of the trench.
- Red, detectable warning tape:** A layer located below the pavement.
- Approved backfill:** The material filling the trench above the conduit.
- 2" PVC Conduit, SCH. 80 or 1 1/4" PVC conduit, SCH. 40 as noted on the plans:** The conduit itself, shown as a circle.
- Sand bedding material:** The material directly beneath the conduit.
- Dimensions:**
 - The total depth of the trench is **36" MIN.**
 - The depth of the sand bedding material is **6" MIN.**
 - The depth of the backfill above the conduit is **14" To 24"**.
 - The thickness of the red detectable warning tape is **6"**.

CONDUIT TRENCH



DESIGN-DETAILED	R. D'AVELLA	K. NEAL	9/2025
CHECKED-REVIEWED	A.MUCCHIONSI	A.CAMPBELL	9/2025
DESIGN-DETAILED	C.FLEURBAEY	K. NEAL	9/2025
DESIGN-DETAILED	Trench Detail Updates		10/2025
REVISED			
REVISED			
REVISED			
REVISED			
FIELD CHANGES			
SIGNATURE			
P.E. NUMBER			
DATE			

OLD TOWN	PENOBSCOT COUNTY
LIGHTING DETAILS	

SHEET NUMBER

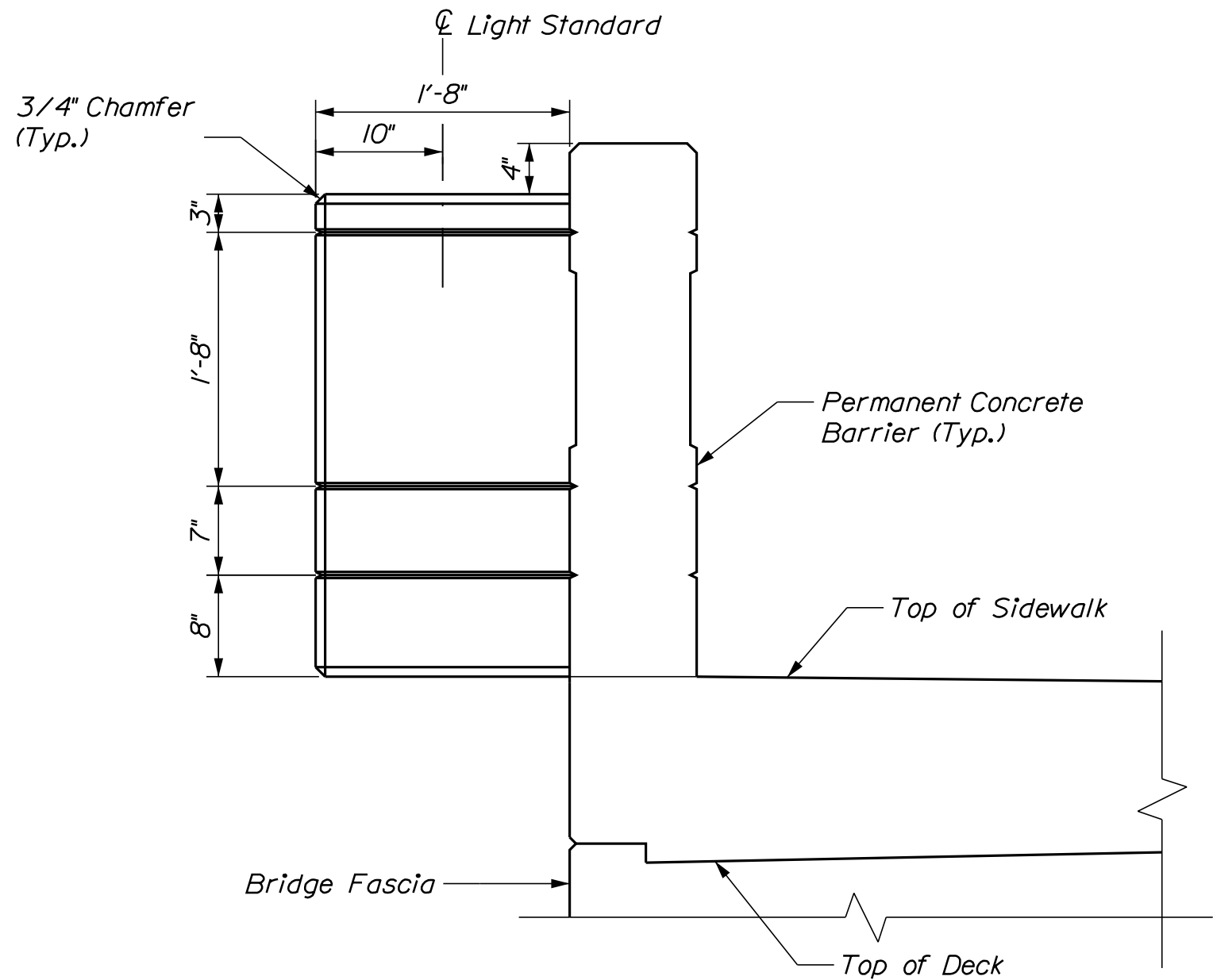
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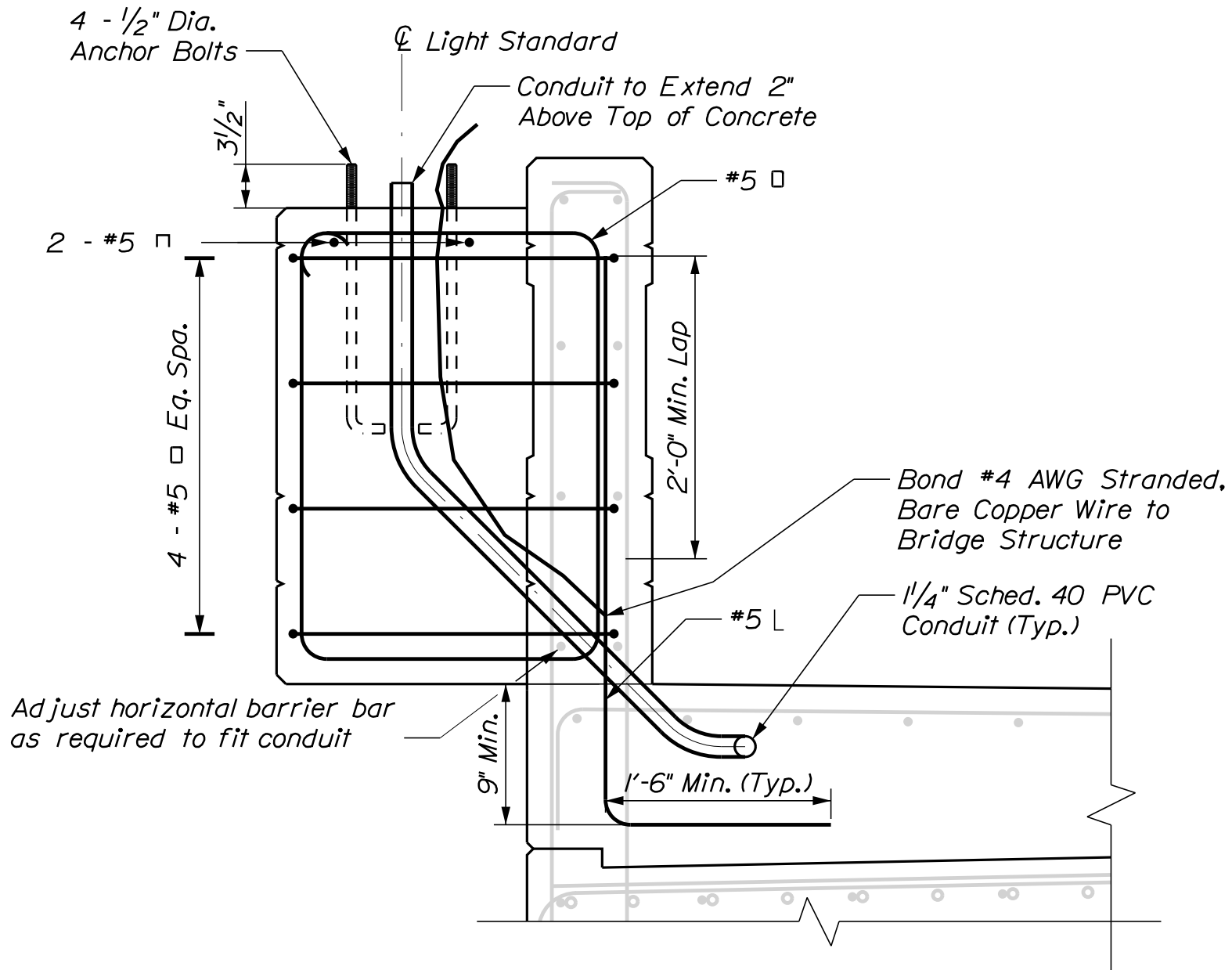
- (A) Dual meter socket installed per Versant Power's requirements. The top of the meter shall be installed 4-feet to 5-feet above finished grade. One meter shall be for the university electrical system and the other meter shall be for the town owned lighting system.
- (B) 2-inch PVC, Sched. 80 service conduit from the transformer to the dual meter socket, with an expansion joint and elbows with 30-inch bend radius per Versant Power's requirements. Underground PVC shall be surrounded by 4" concrete on all sides, concrete shall have a minimum 3000 psi compressive strength. Conduit shall transition to rigid metal at the utility pole; anticipated height is 20-feet, to be confirmed in the field. All service equipment shall be installed per Versant Power's requirements.
- (C) Provide 4500 PSI, re-bar re-enforced concrete with 2-inch overlap of the enclosure on all sides, and a 2-inch exposure above grade, provide 3/4-inch chamfered edges.
- (D) New 316 SS, Nema 4X enclosure with 12-inch high skirt and piano hinge type cover and padlock with hasp.
- (E) 100A, single phase, service entrance rated load center (LP).
- (F) 6-pole, 30A, 240V electronically held lighting contactor for on/off control of the lights.
- (G) Built-in photocell behind glass window, installed at least 3-feet above finished grade to be installed on the north side of the enclosure, and wired through the hand-off-auto switch for control of the lights.
- (H) Hand-Off-Auto (HOA) switch with for lighting control, the HOA switch shall be wired with the photocell control in the auto position.
- (I) Nema 5-20R, duplex GFCI maintenance receptacle with back box and cover.
- (J) 2-inch schedule 80 PVC conduit to pull box. Refer to conduit schedule for number of conductors to be installed.
- (K) 3/4-inch PVC conduit to ground rods.
- (L) (2) 3/4-inch by 10-foot long copper clad ground rods. Spaces a minimum of 8-feet apart and installed at least 3-inches below finished grade. Connect a #4 awg stranded bare copper wire to the ground rods with an exothermic weld and bonded to a ground lug in the Nema 4X enclosure to ground conductor.



LIGHTING PANEL LP											
SERVICE: 240/120V, 1PH, 3W											
MAINS: MCB											
NEUTRAL BUS: 100A											
CKT. NO.	SERVES	LOAD (KVA)		BREAKER		BREAKER		LOAD (KVA)		SERVES	CKT. NO.
		AØ	BØ	TRIP	POLE	POLE	TRIP	AØ	BØ		
1	PED LIGHTS (5)	0.09		20	2	2	20	0.07		PED LIGHTS (4)	2
3			0.09								0.07
5	HOLIDAY RECEPTACLES (5)	0.90		20	1	1	20			SPARE	6
7	HOLIDAY RECEPTACLES (4)		0.72	20	1	1	20			SPARE	8
9	PED LIGHTS (1)	0.03		20	2	1	15	0.20		PHOTOCELL	10
11			0.03				1	20		0.18	MAINTENANCE RECEPTACLE
SUB-TOTAL CONNECTED		1.02	0.84					0.27	0.25	SUB-TOTAL CONNECTED	
				GND. BUS							
NOTES: 1. PROVIDE NEW 10KAIC RATED CIRCUIT BREAKERS.				"AØ" SUB-TOTAL CONNECTED (KVA):		1.29				LIGHTING TOTAL CONNECTED (KVA) AT 125%	0.48
				"BØ" SUB-TOTAL CONNECTED (KVA):		1.09				MISC. TOTAL CONNECTED (KVA) AT 100%	1.8
				TOTAL ESTIMATED LOAD (KVA):		2.28					



LIGHTING SUPPORT - SIDE ELEVATION

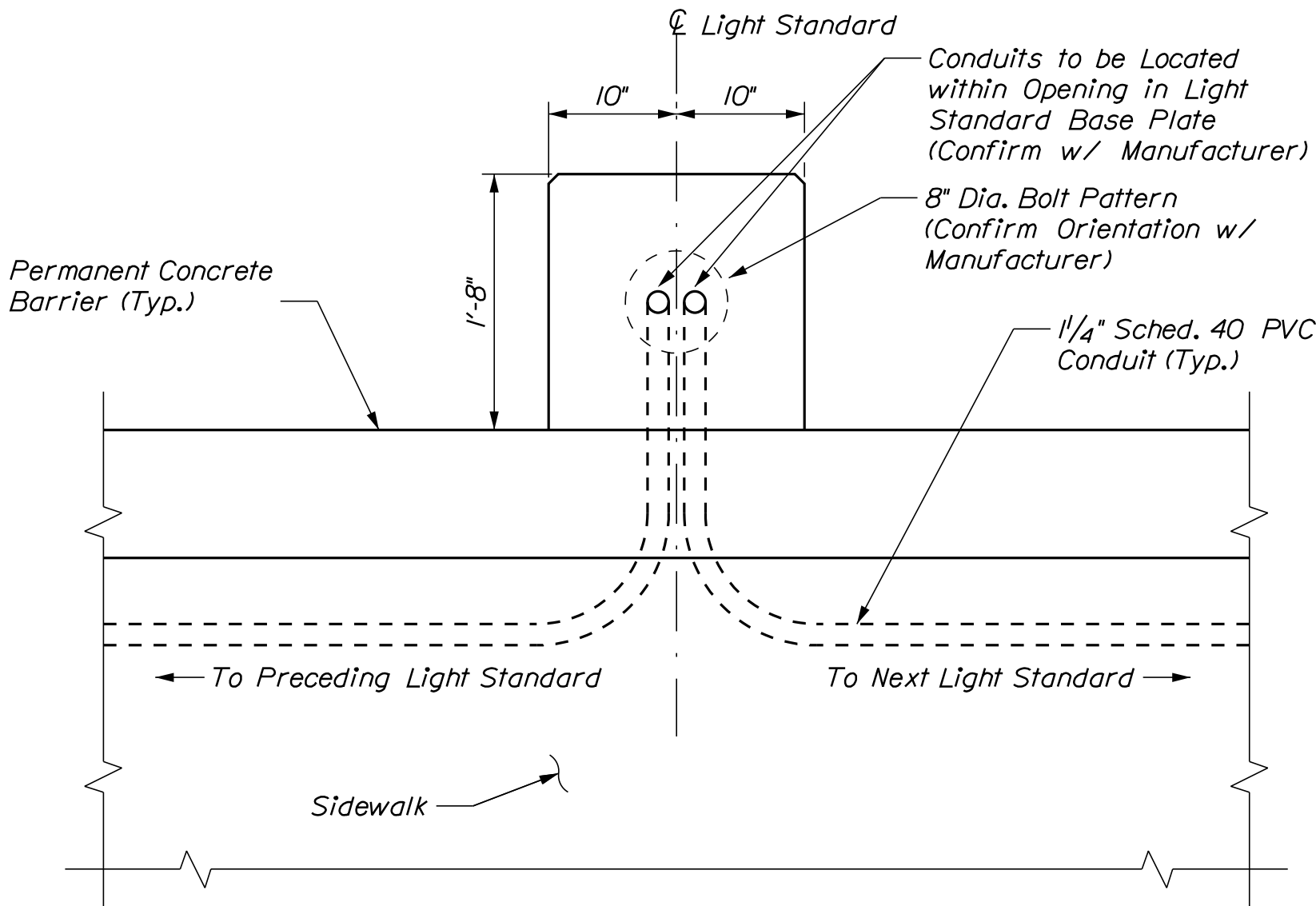


LIGHTING SUPPORT - REINFORCING DETAIL

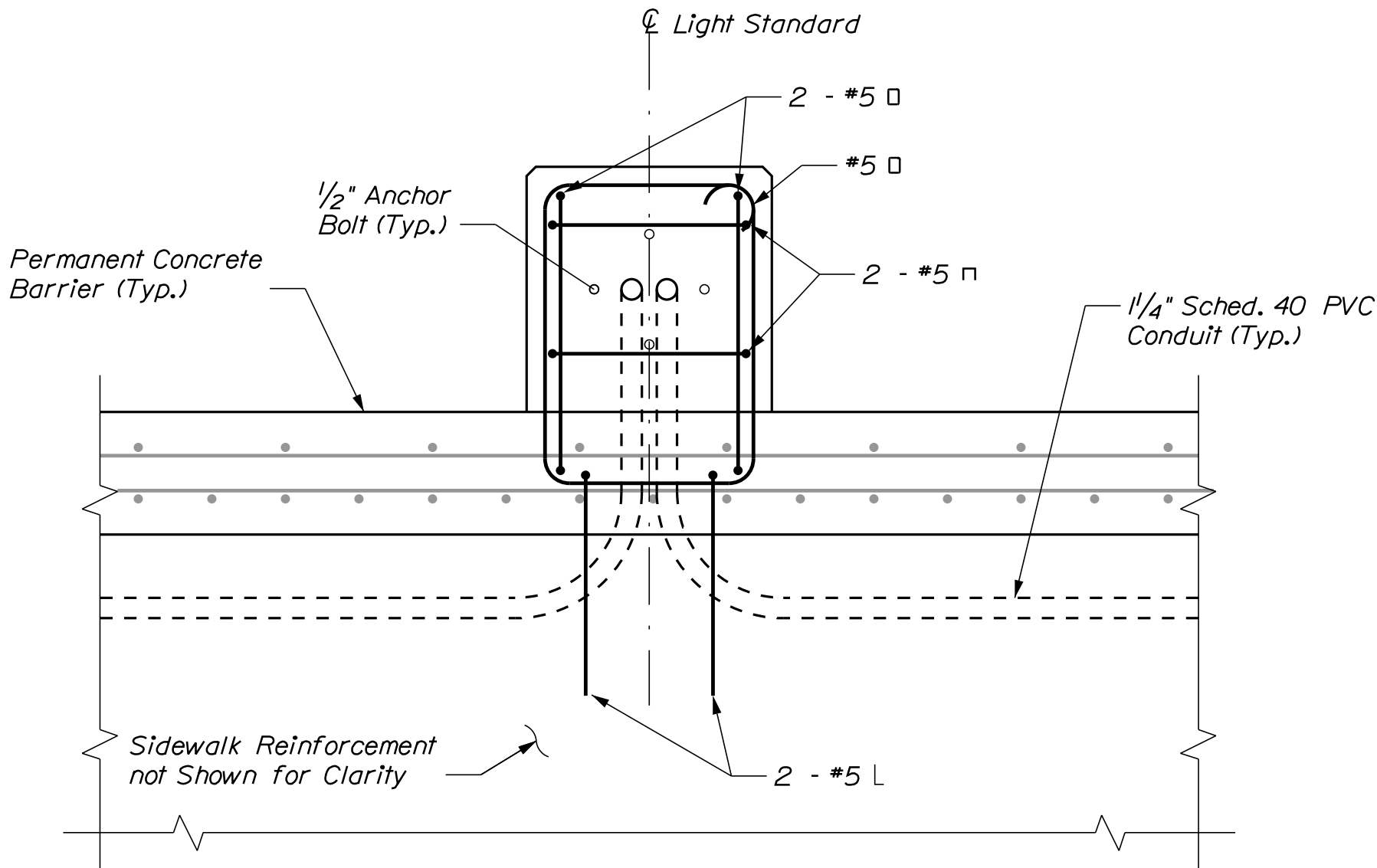
LIGHTING BUMPOUT NOTES

1. Light standard shall be bonded to the bridge structure with a stranded, bare copper #4 AWG conductor. Bonding wire shall extend a minimum of 18-inches above the concrete bumpout to allow for connection to the light standard grounding lug.
2. Conduit stub out shall extend 2-inches above concrete bumpout.
3. 8-inch bolt circle pattern shall be centered on the light standard bumpout. The anchor bolts shall be installed such that the hand hole in the light standard is oriented towards the sidewalk.
4. Hot-dipped galvanized anchor bolts shall be per the pole Manufacturer's recommendations. Anchor bolts shall be installed such that the anchor bolt is surrounded by at least 2-inches of concrete. Contact the Engineer if 2-inches of concrete cover cannot be achieved. Anchor bolts shall be embedded a minimum of 18-inches into the concrete bumpout unless otherwise specified by the pole Manufacturer.
5. The top of the anchor bolt shall extend 3 1/2" above finished top of concrete bumpout per the pole Manufacturer's installation instructions.
6. Electrical conduit shall have a minimum concrete clear cover of 2", including but not limited to all fittings and expansion couplings.
7. Conduit installed in sidewalk shall have a minimum of 4 inches of concrete cover between the top of the conduit and the top of the sidewalk.
8. All concrete and reinforcement for the lighting supports shall be considered incidental to Item 526.34I.

⚠ All concrete and reinforcement for the lighting supports shall be considered incidental to Item 526.34I.



LIGHTING SUPPORT - PLAN ELEVATION



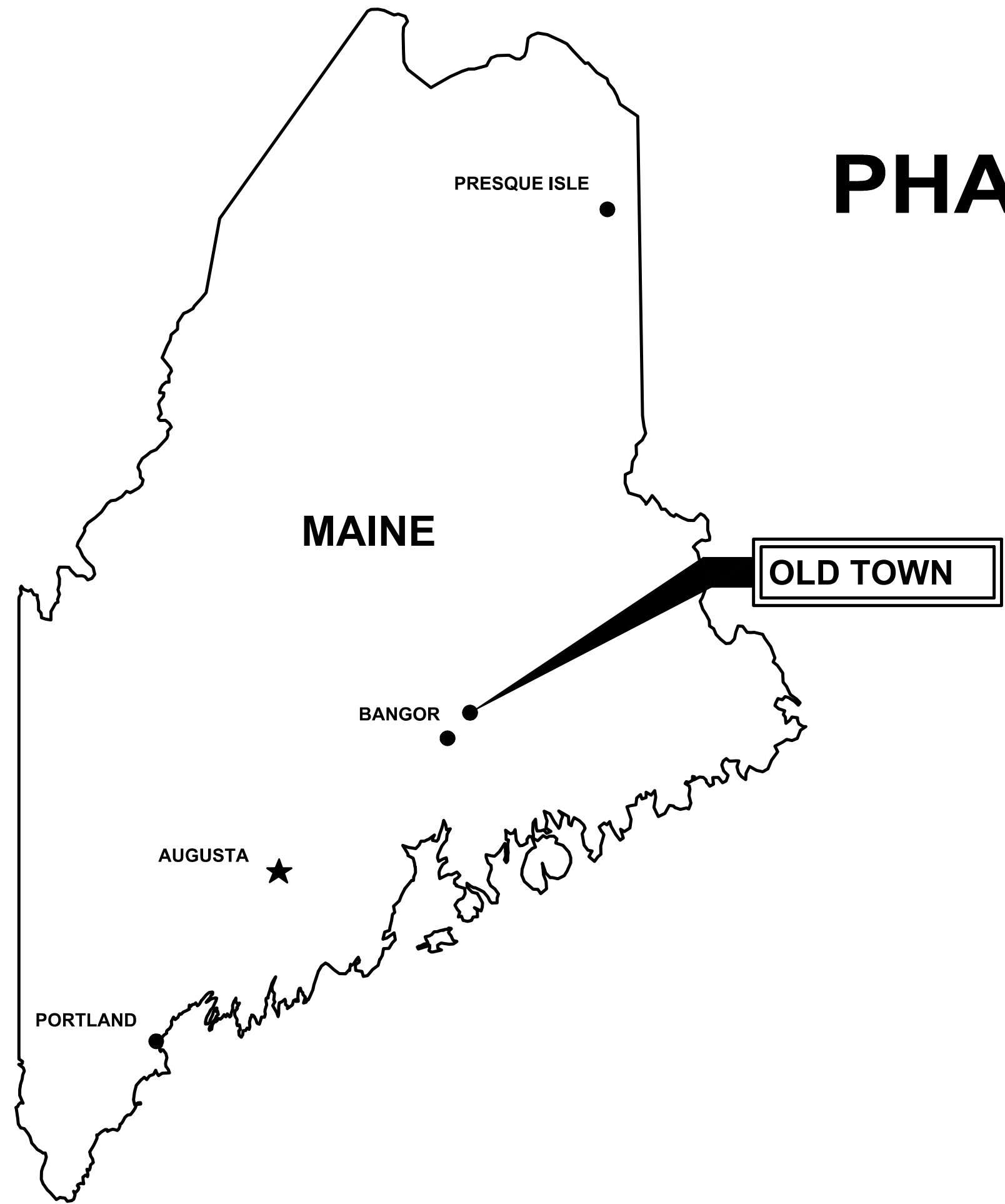
LIGHTING SUPPORT - REINFORCING PLAN

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2251(200) & STP-2251(100)	SIGNATURE		DATE	
	P.E. NUMBER		DATE	
	BRIDGE NO. 1472 BRIDGE NO. 2806		WIN 022512.02 WIN 022511.02	
LLEWELLYN ESTES BRIDGES STILLWATER RIVER OLD TOWN PENOBSCOT COUNTY		PROJ. MANAGER GERALD DOSTIE		BY G. ERICKSON T. POLSON
BRIDGE LIGHTING SUPPORT DETAILS		DESIGN-DETAILED G. ERICKSON		DATE 9/2025
		CHECKED-REVIEWED T. POLSON		DATE 9/2025
		DESIGN-DETAILED G. ERICKSON		DATE 10/2025
		REVISIONS 1 Note 8 added		
		REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		

CITY OF OLD TOWN, MAINE
CONTRACT DRAWINGS FOR
STILLWATER AVENUE PUMP STATION
FORCE MAIN REPLACEMENT
FEDERAL AID PROJECT # 2189401
WINS 22511.02 & 22512.02

APRIL 2025

PHASE D: FORCE MAIN INSTALLATION



DRAWING INDEX

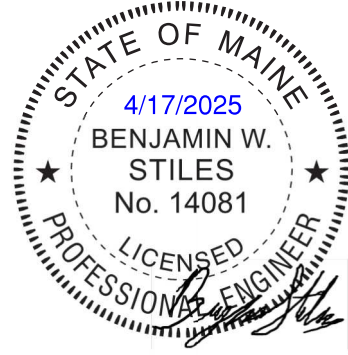
GENERAL

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C-1
C-2
C-3
C-4
C-5

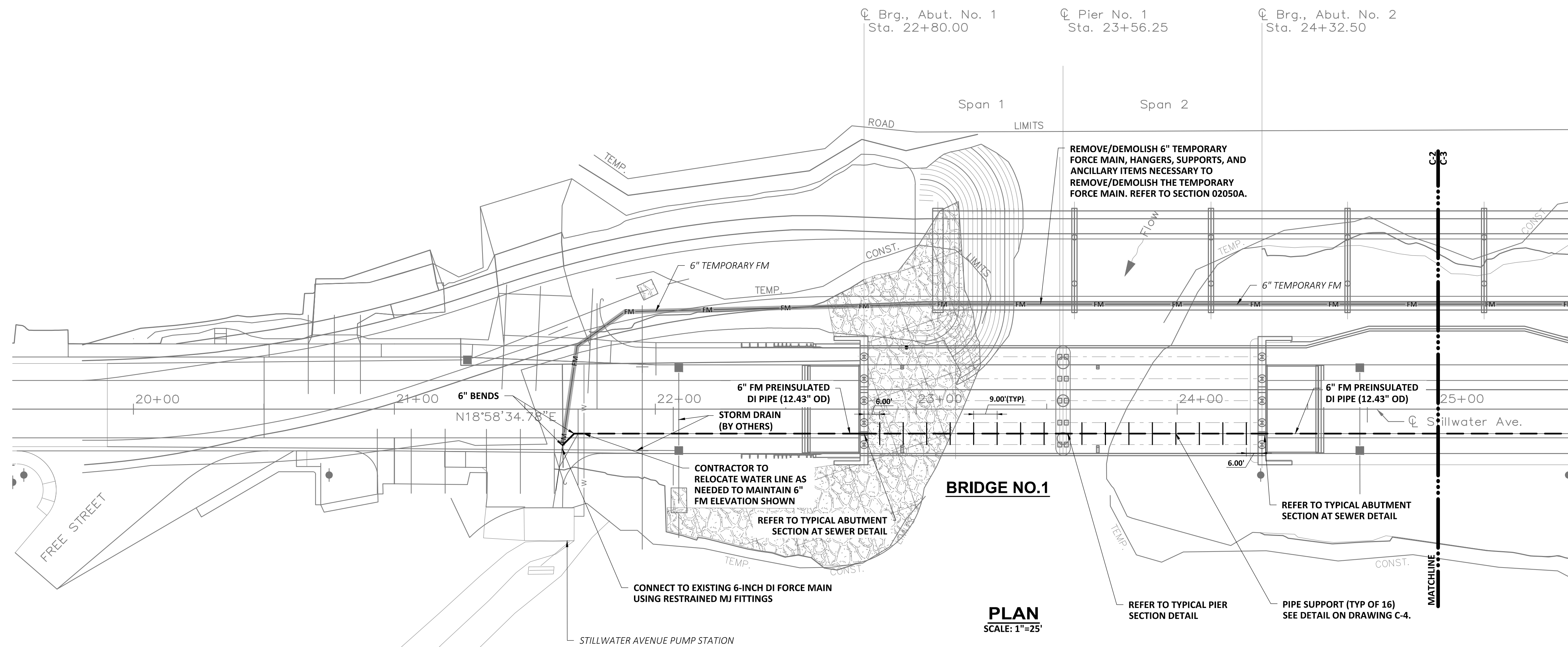
COVER SHEET

GENERAL NOTES, LEGEND, AND ABBREVIATIONS
PLAN AND PROFILE I - BRIDGE NO.1
PLAN AND PROFILE II - BRIDGE NO.2
SEWER FORCE MAIN BRIDGE SUPPORT DETAILS
SEWER FORCE MAIN DETAILS

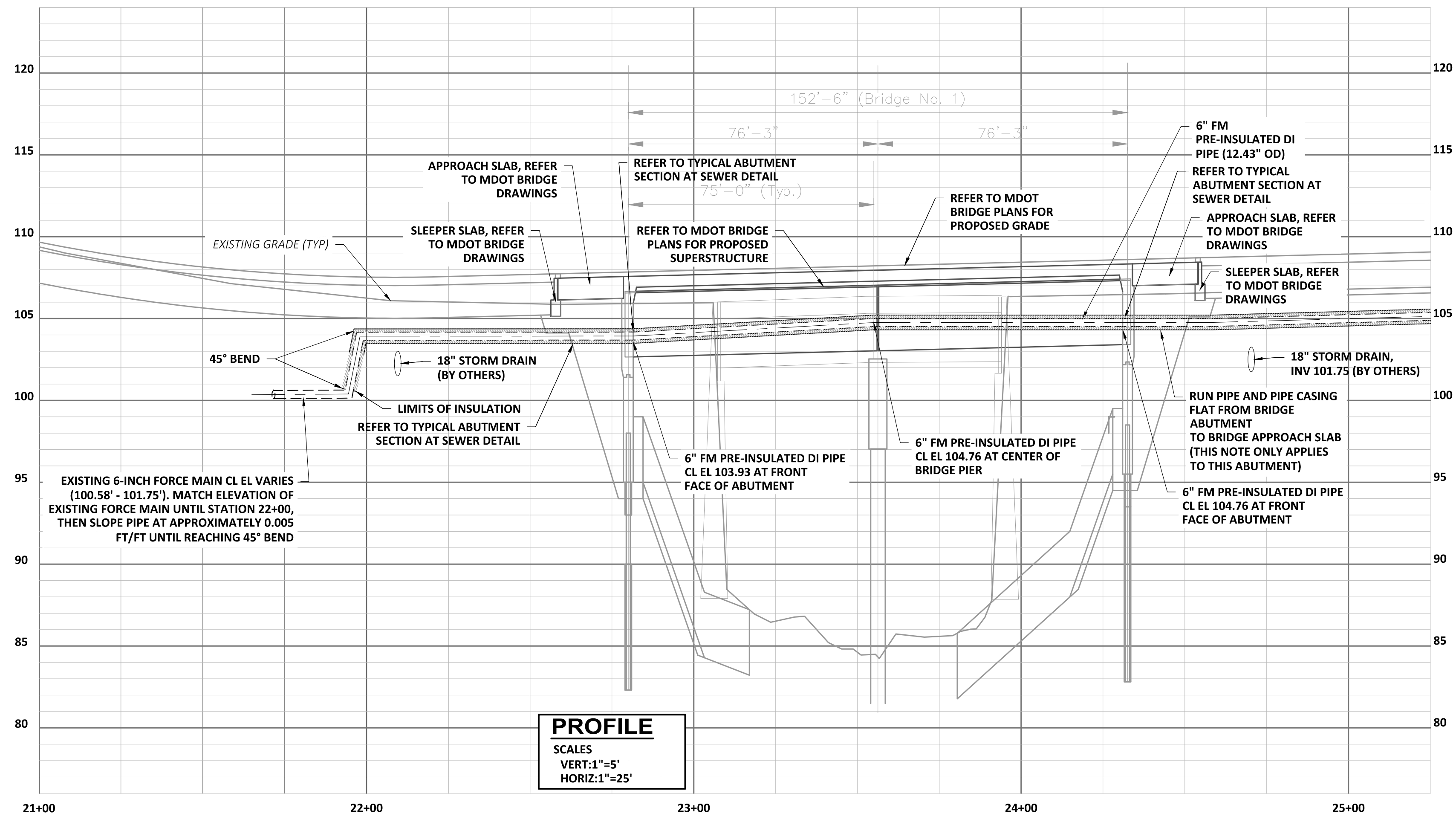


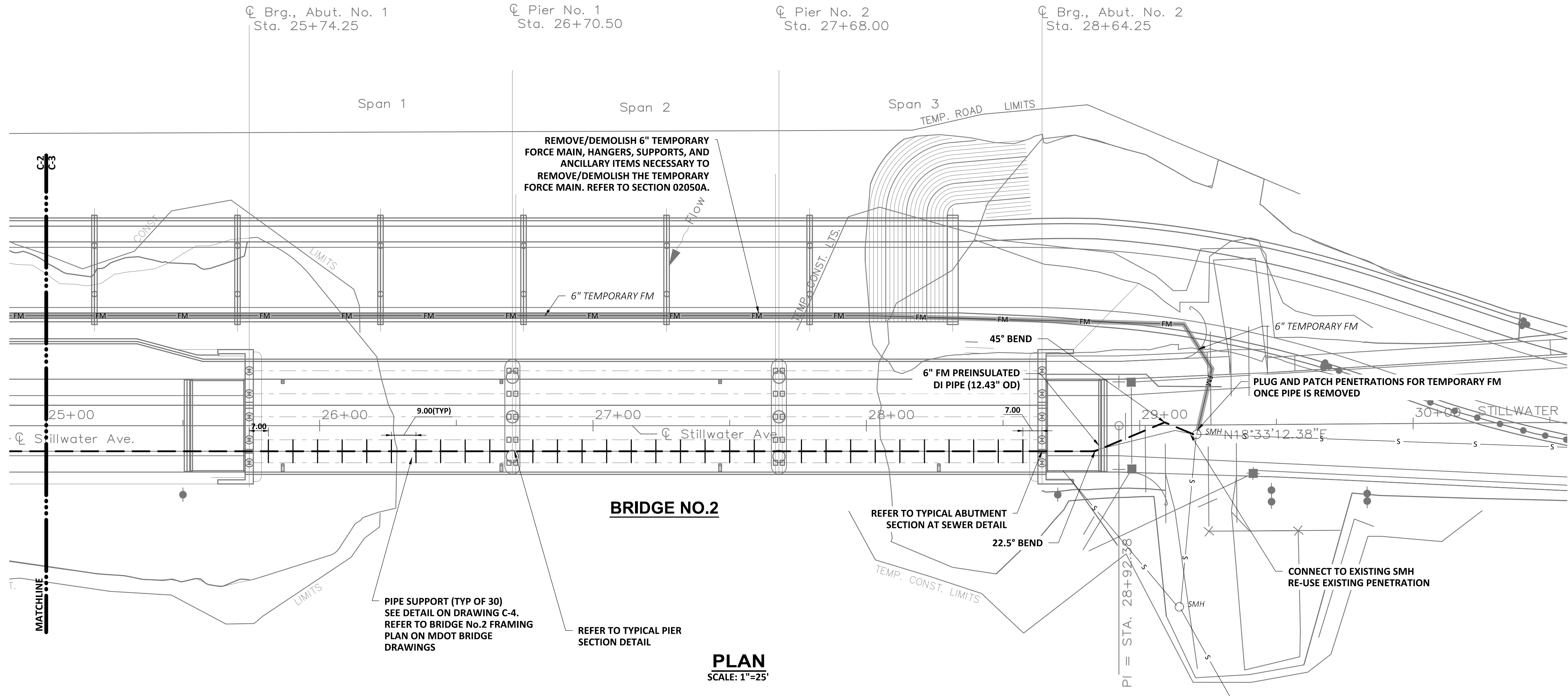
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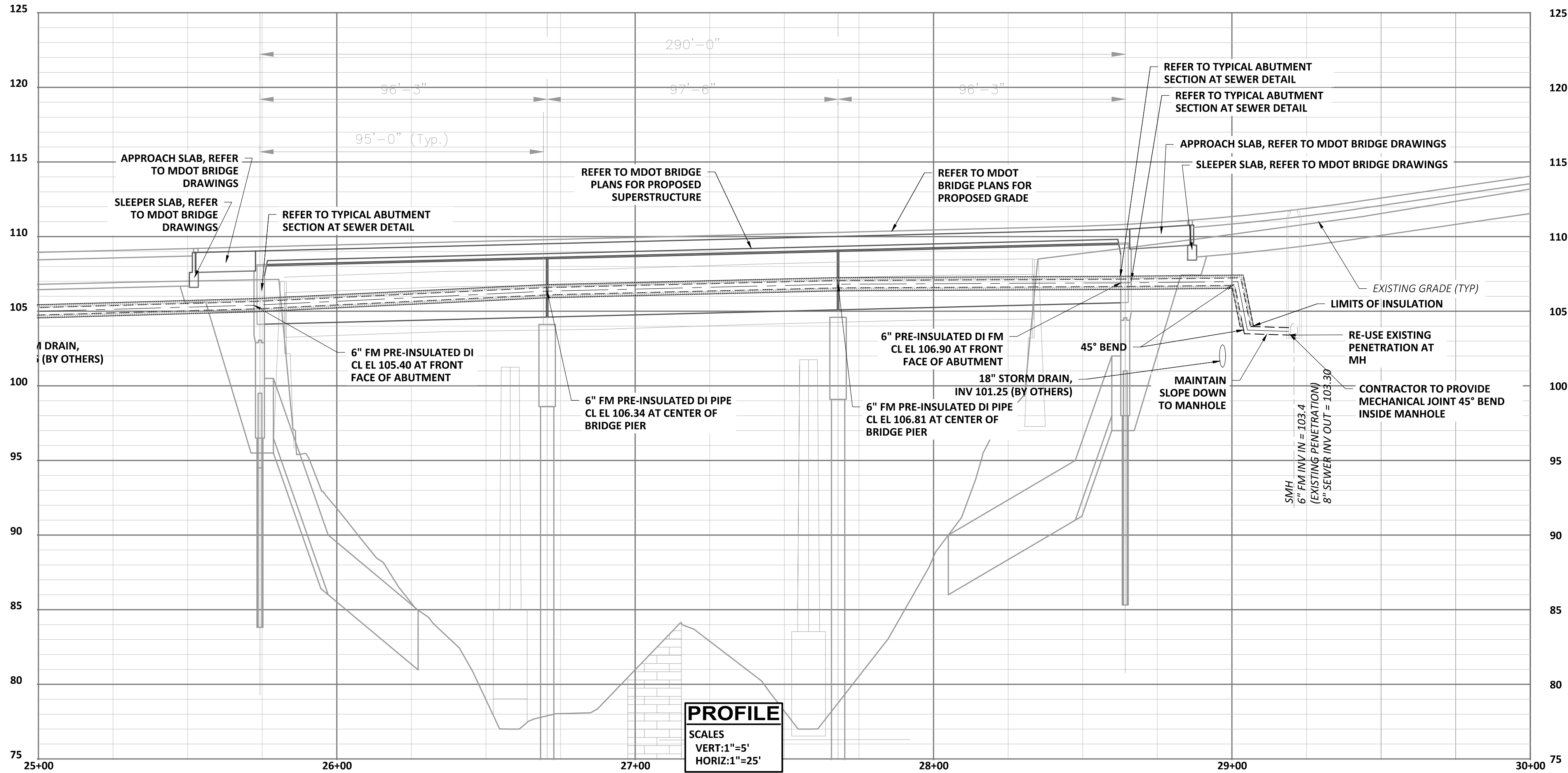


- NOTES:
1. FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS REFER TO C-1
 2. ALL BRIDGE AND ROADWAY WORK TO BE PERFORMED UNDER MDOT DRAWING SCOPE OF WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH BRIDGE AND ROADWORK COVERED UNDER MDOT DRAWINGS.
 3. REFER TO PIPE SUPPORT DETAIL ON DRAWING C-4. PIPE SUPPORTS TO BE CONNECTED TO INTERFACE SHEAR REINFORCEMENT. REFER TO MDOT BRIDGE PLANS FOR INTERFACE SHEAR REINFORCEMENT REQUIREMENTS.
 4. REFER TO TYPICAL ABUTMENT SECTION AT SEWER AND TYPICAL BRIDGE PIER SECTION DETAILS ON DRAWING C-4 FOR PIPE CASING EXTENTS.
 5. SEWER FORCE MAIN IS 6" DIAMETER WITH APPROXIMATE OUTSIDE DIAMETER OF 12.43" FOR THE INSULATION AND JACKET. CONTRACTOR TO COORDINATE ABUTMENT CASING, CASING SPACERS, LINK SEALS, AND PIPE HANGER WITH ACTUAL OUTSIDE DIAMETER OF PRE-INSULATED FORCE MAIN.

[illegible]



- NOTES:
- FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS REFER TO C-1
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REVISIONS		APPD	DATE
NO			
1			
2			
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5			

PROJECT NO: 20593	DESIGNED: A. PINNETTE	PROJECT NO: 20593	DESIGNED: A. PINNETTE
CAD COORD: R. SCAMMON	CAD: R. SCAMMON	CAD COORD: R. SCAMMON	CAD: R. SCAMMON
CHECKED: B. STILES	CHECKED: B. STILES	CHECKED: B. STILES	CHECKED: B. STILES
DATE: 10/21/2024	DATE: 10/21/2024	DATE: 10/21/2024	DATE: 10/21/2024
APPROVED: B. STILES	APPROVED: B. STILES	APPROVED: B. STILES	APPROVED: B. STILES
DATE: 4/15/2025	DATE: 4/15/2025	DATE: 4/15/2025	DATE: 4/15/2025
SUBMISSION: CONTRACT DOCUMENTS		SUBMISSION: CONTRACT DOCUMENTS	

STATE OF MAINE

4/17/2025

BENJAMIN W. STILES

No. 14081

PROFESSIONAL ENGINEER

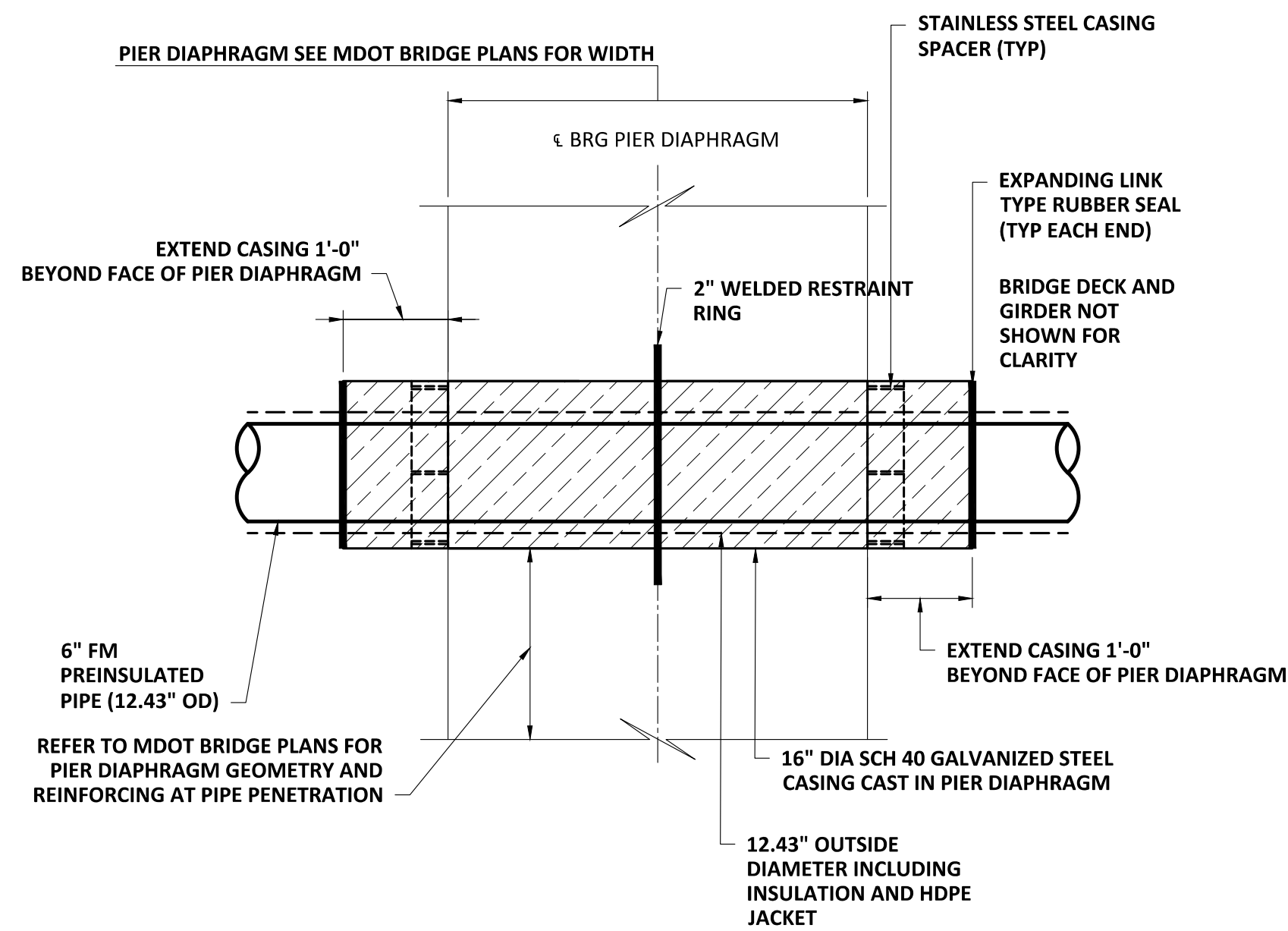
WRIGHT-PIERCE

207.725.8721 | www.wright-pierce.com

11 BOWDOIN MILL ISLAND, SUITE 140, TOPSHAM, ME 04086

CITY OF OLD TOWN, MAINE	PLAN AND PROFILE - BRIDGE NO. 2
STILLWATER AVENUE PUMP STATION	
FORCE MAIN REPLACEMENT	
PHASE D: FORCE MAIN INSTALLATION	

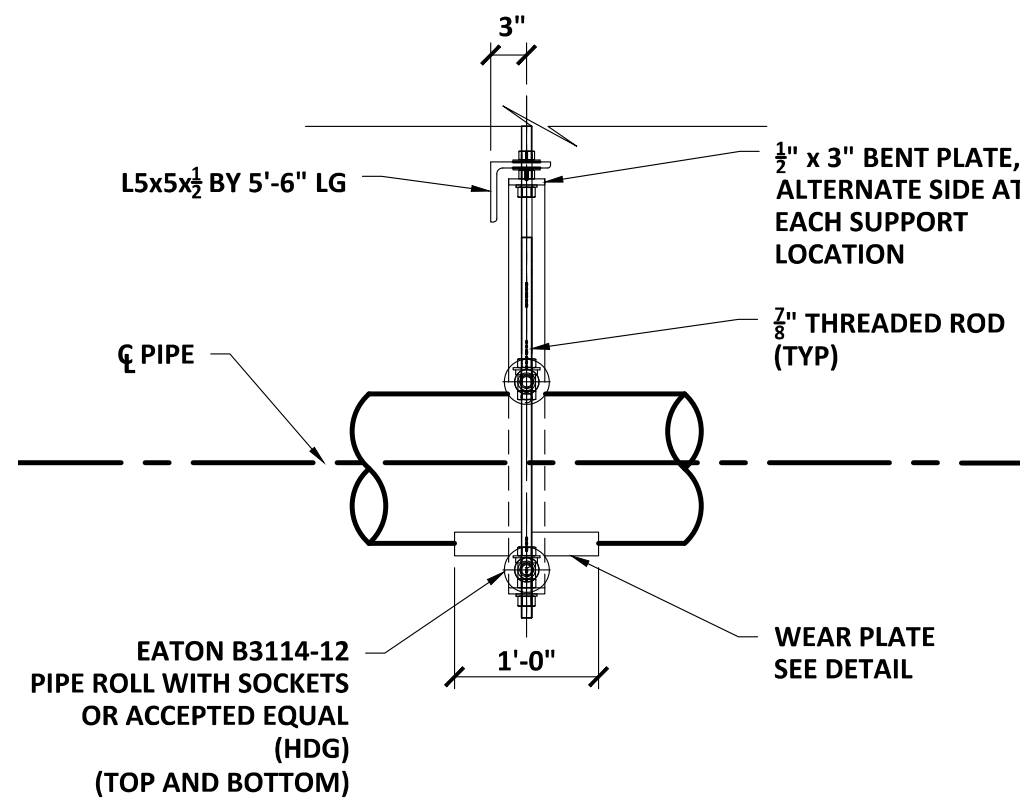
DRAWING	C-3
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TYPICAL BRIDGE PIER SECTION

SCALE: NTS

- NOTES:**
- 1. REFER TO MDOT BRIDGE DRAWINGS FOR FULL SCOPE AND DETAIL OF CONCRETE BRIDGE PIERS. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH BRIDGE AND ROADWORK COVERED UNDER MDOT DRAWINGS.**



PIPE SUPPORT SECTION

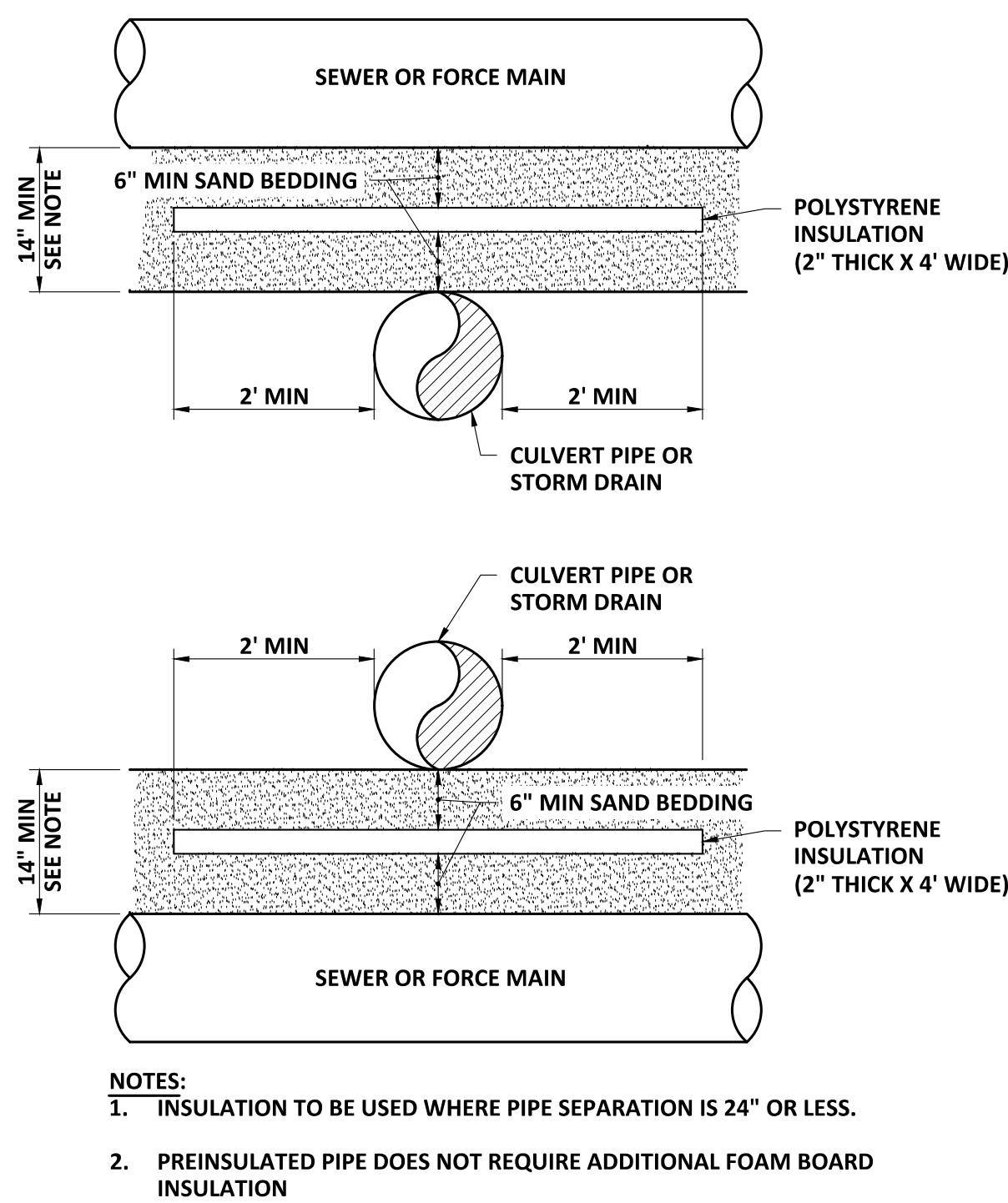
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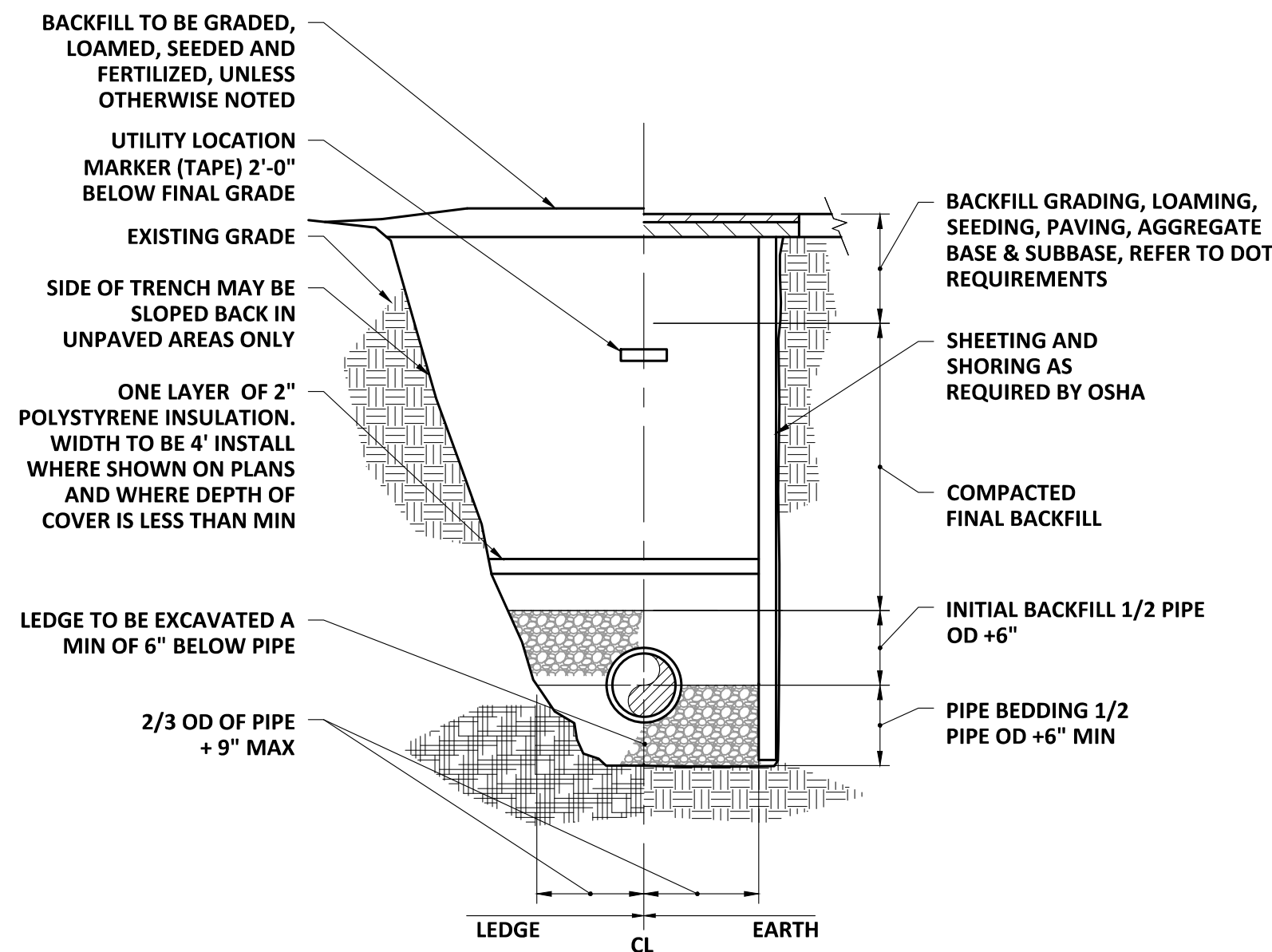
- PIPE SUPPORT NOTES:
1. ALL PIPE SUPPORT COMPONENTS SHALL BE HOT DIPPEED GALVANIZED (HDG) IN ACCORDANCE WITH ASTM A153 FOR HARDWARE AND ASTM A123 FOR STRUCTURAL STEEL SHAPES.
 2. THREADED RODS SHALL BE IN ACCORDANCE WITH ASTM F1554 GRADE 36 MIN.
 3. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AASHTO M270 GRADE 36 (ASTM A36). HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325 TYPE 1, WITH MATCHING NUTS AND WASHERS UNDER TURNED COMPONENTS. BOLTS SHALL BE INSTALLED IN STANDARD SIZE HOLES EXCEPT AS NOTED ON THE PLANS.
 4. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED BY EITHER HOT DIP GALVANIZING TO THE REQUIREMENTS OF AASHTO M 232 CLASS C OR MECHANICALLY GALVANIZED TO THE REQUIREMENTS OF AASHTO M 298 CLASS 50, TYPE I.
 5. ALL GALVANIZED COATINGS DAMAGED DURING SHIPMENT OR INSTALLATION SHALL BE FIELD COATED WITH A ZINC RICH COATING APPROPRIATE FOR THE APPLICATION AT NO ADDITIONAL COST TO THE OWNER.

CITY OF OLD TOWN, MAINE STILLWATER AVENUE PUMP STATION FORCE MAIN REPLACEMENT PHASE D: FORCE MAIN INSTALLATION	SEWER FORCE MAIN BRIDGE SUPPORT DETAILS		DRAWING C-4
	WRIGHT-PIERCE 207.725.8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140, TOPSHAM, ME 04086		
PROJECT NO: 20593 DESIGNED: A. PINNETTE CAD COORD: R. SCAMMON CAD: R. SCAMMON CHECKED: J. GALANT DATE: 5/24/2024 APPROVED: B. STILES DATE: 4/15/2025 SUBMISSION: CONTRACT DOCUMENTS			
NO REVISIONS DATE			



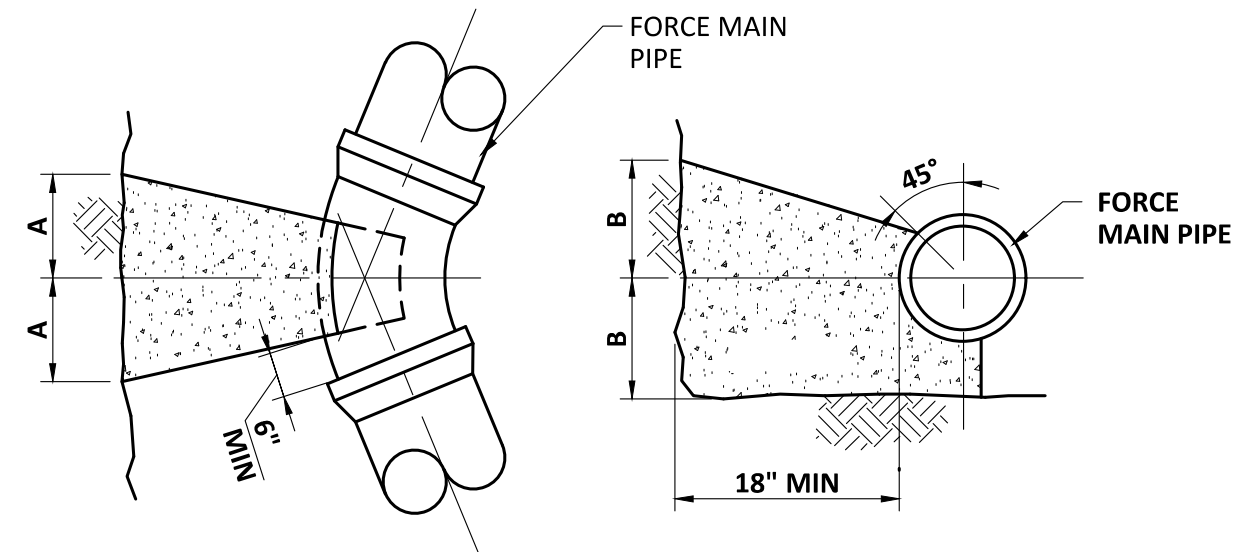
CULVERT PIPE / STORM DRAIN CROSSING

SCALE: NTS



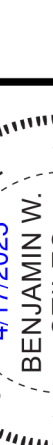
PIPE TRENCH

SCALE: "NTS"



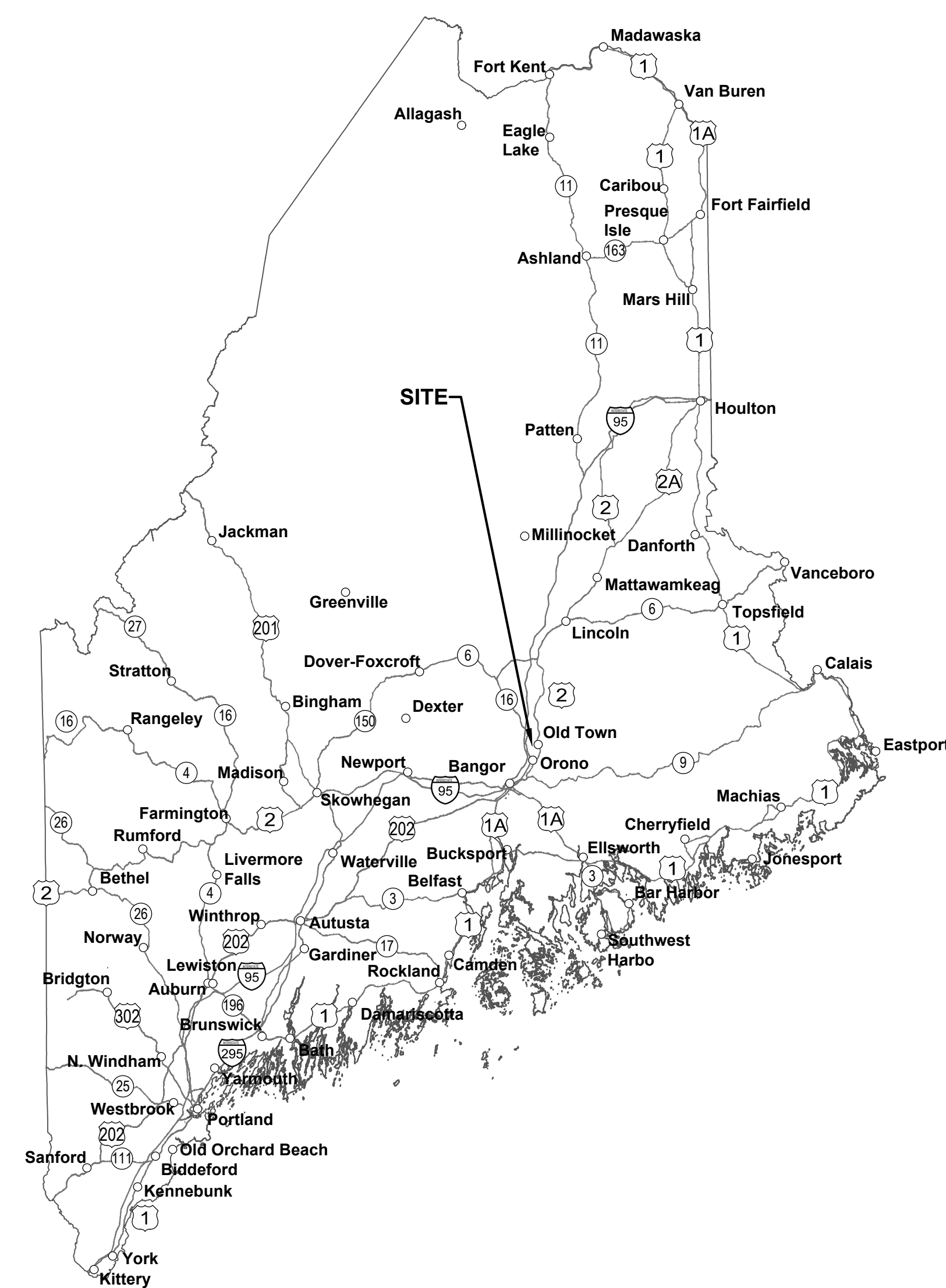
PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND	
	A	B	A	B	A	B
6"	18"	12"	12"	9"	9"	9"
8"	24"	15"	15"	12"	12"	12"
10"	24"	20"	15"	15"	12"	12"
12"	24"	24"	18"	18"	15"	12"

FORCE MAIN THRUST BLOCK

DRAWING	CITY OF OLD TOWN, MAINE STILLWATER AVENUE PUMP STATION FORCE MAIN REPLACEMENT PHASE D: FORCE MAIN INSTALLATION	 WRIGHT-PIERCE 207.725.8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140, TOPSHAM, ME 04086			PROJECT NO: 20593 DESIGNED: A. PINNETTE CAD COORD: R. SCAMMON CAD: R. SCAMMON CHECKED: B. STILES DATE: 10/21/2024 APPROVED: B. STILES DATE: 4/15/2025 SUBMISSION: CONTRACT DOCUMENTS	NO	REVISIONS	APPD	DATE
	SEWER FORCE MAIN DETAILS								
C-5									

OLD TOWN WATER DISTRICT STILLWATER AVENUE WATERMAIN REPLACEMENT MDOT WIN 22511.02 & 22512.02

OLD TOWN, MAINE

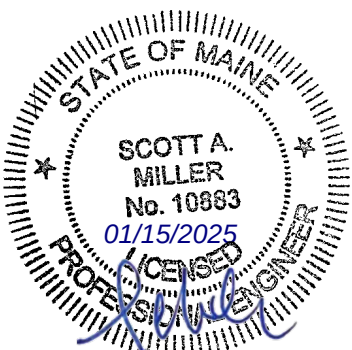


FOR CONSTRUCTION
JANUARY 15, 2025

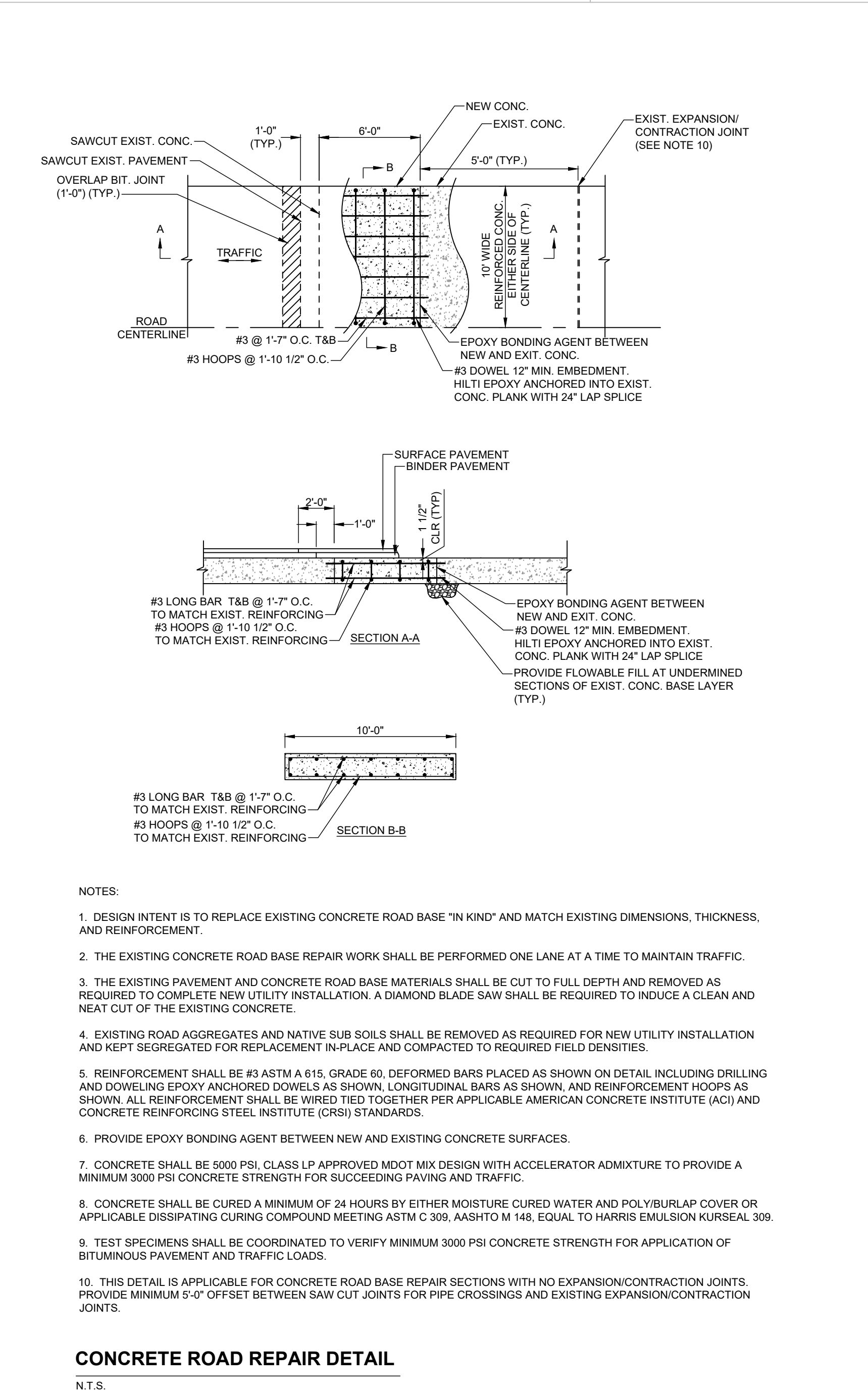
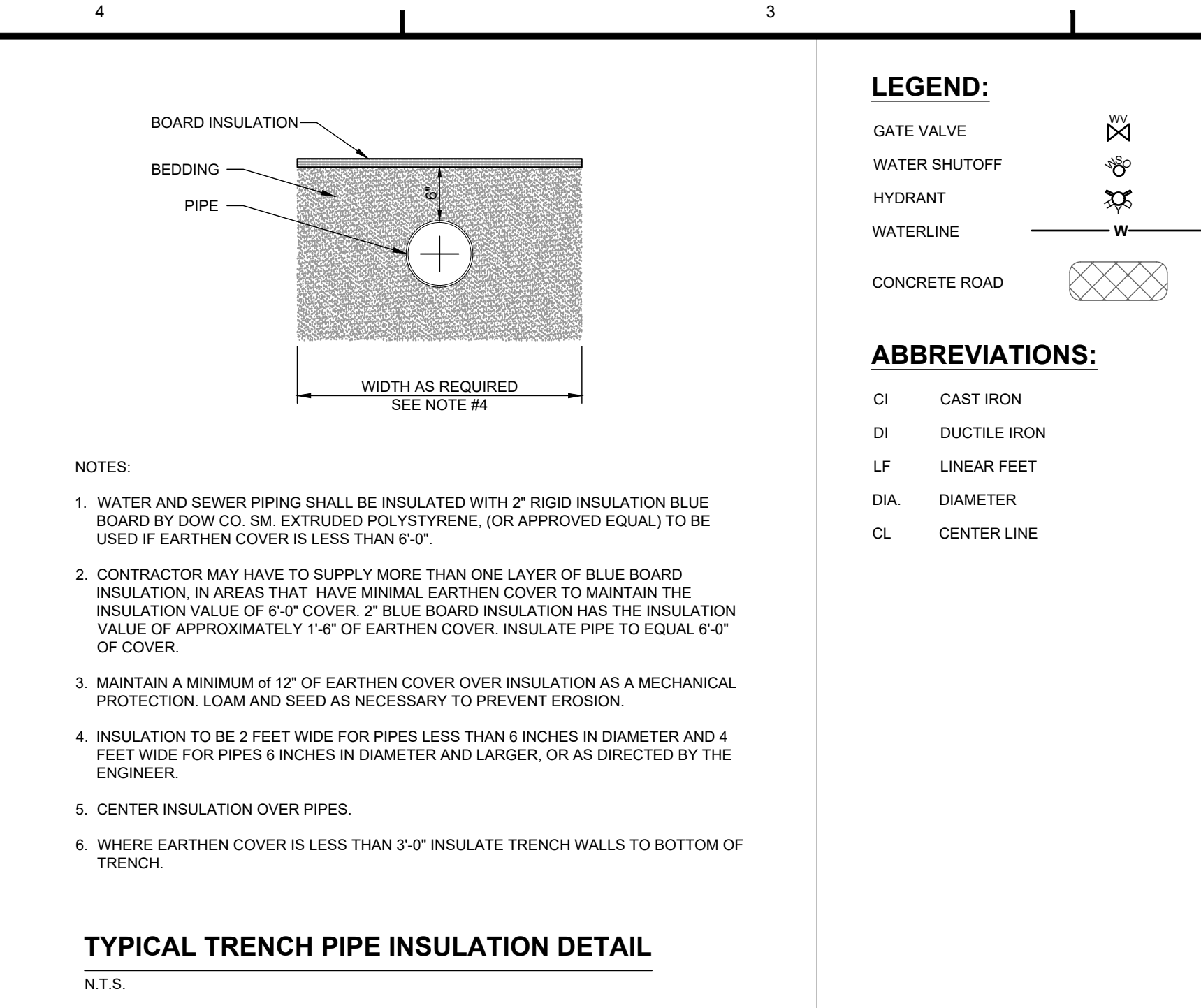
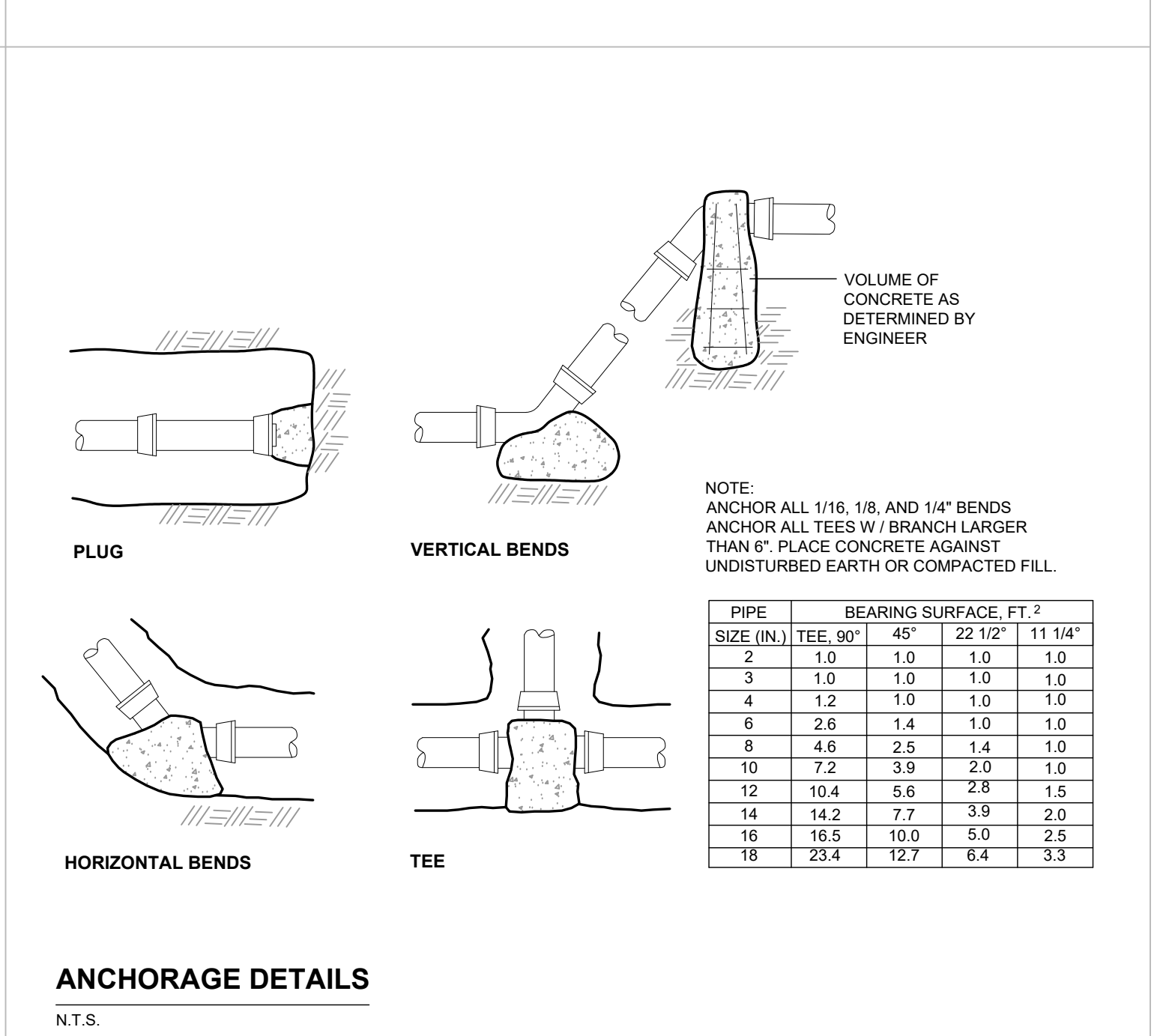
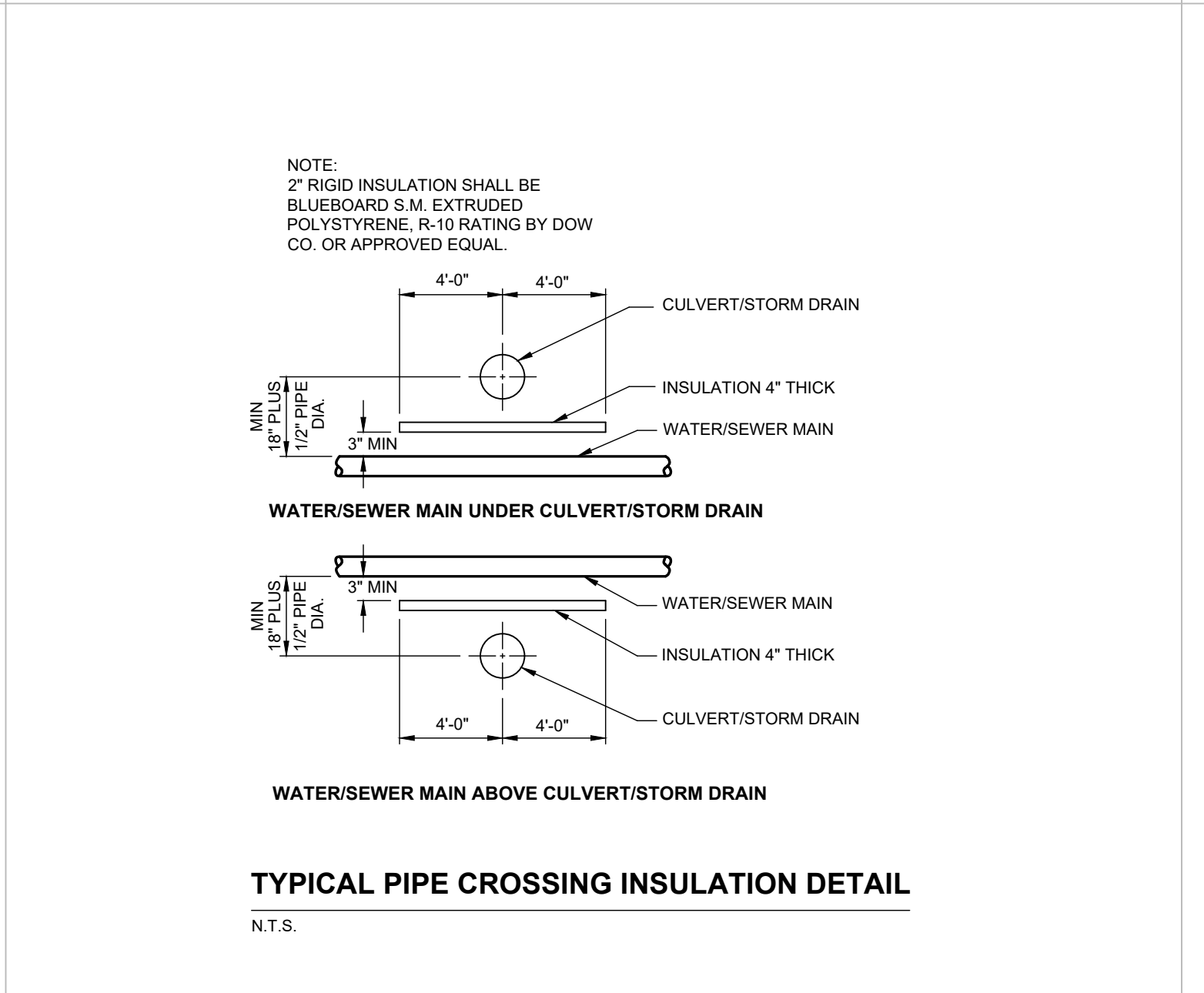
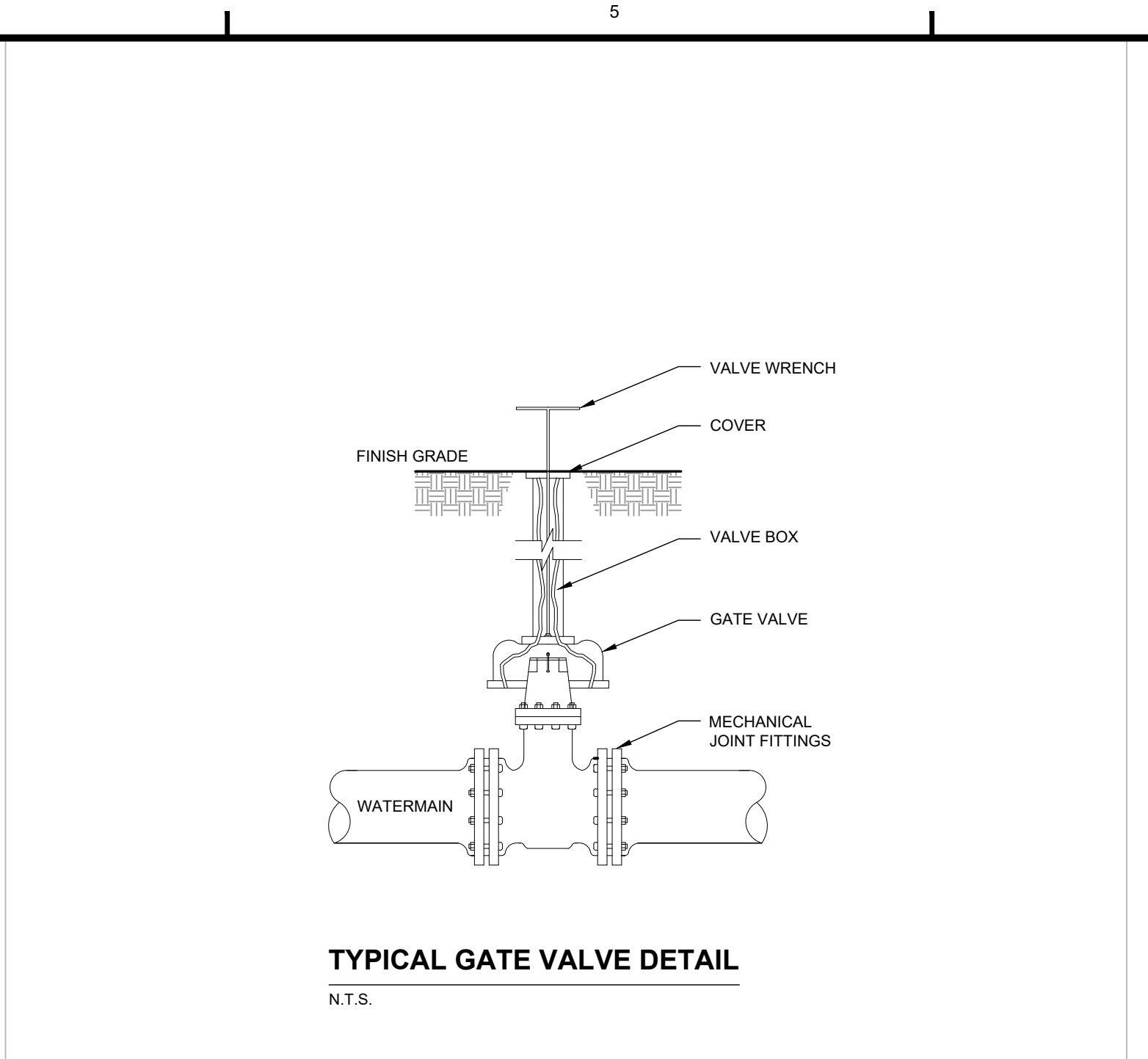
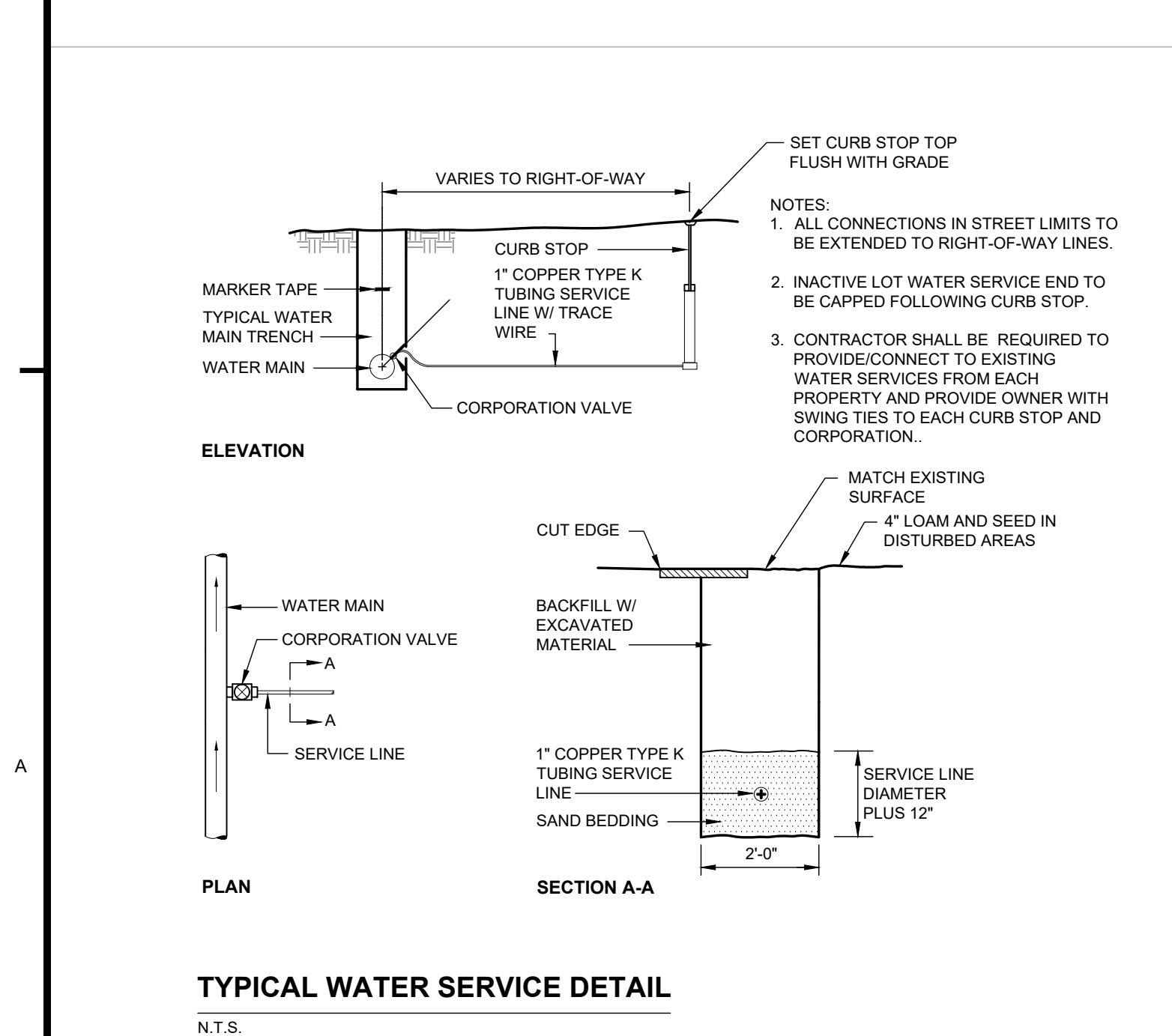
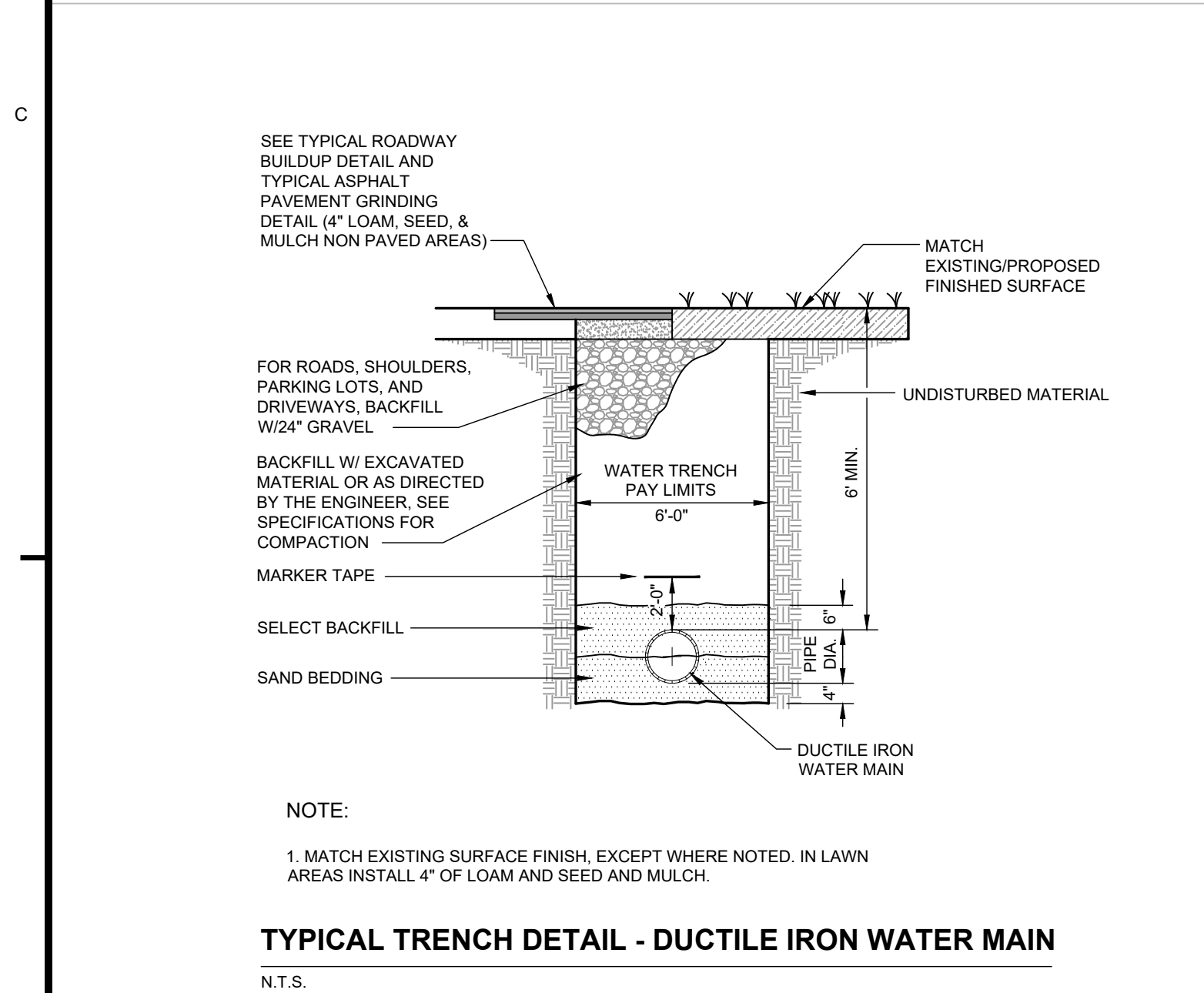
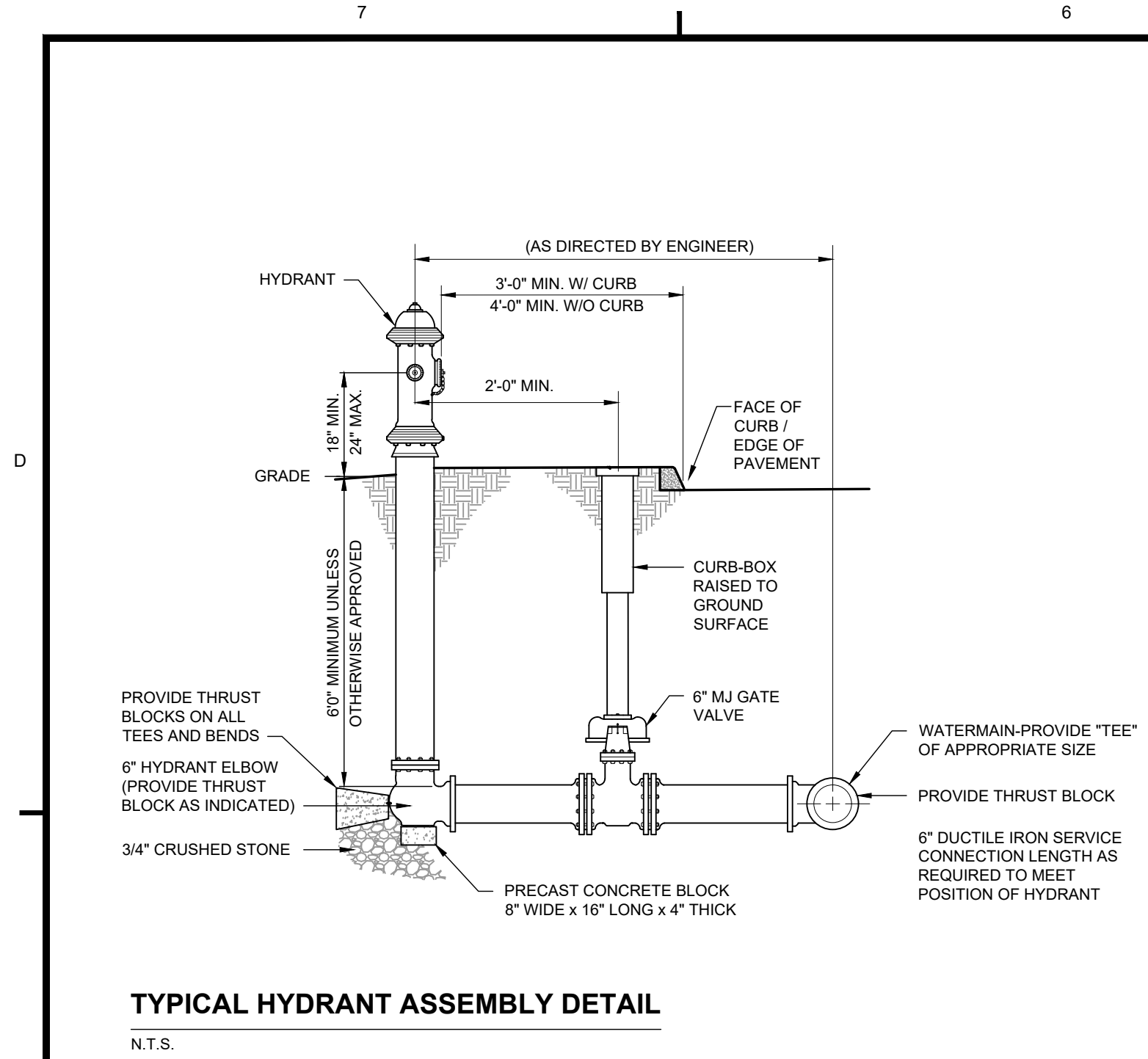


INDEX OF DRAWINGS

G001	COVER SHEET
C101	PROPOSED WATER SYSTEM IMPROVEMENTS
C501	PROPOSED WATER SYSTEM NOTES & DETAILS
S-101	BRIDGE NO. 1 WATER MAIN SUPPORT PLAN, SECTION, DETAILS AND NOTES
S-102	BRIDGE NO. 2 WATER MAIN SUPPORT PLAN TYPICAL SUPPORT PROFILE & TYPICAL WATER MAIN HANGER DETAIL



FILE LOCATION: P:\MET\046-OLD TOWN WATER DISTRICT\STILL WATER BRIDGE\WM-CPROG-CAD_DRAWINGS\CON\DESIGN_DRAWING\10346-004-C-07.DWG, 2025.01.15, 1:17 PM

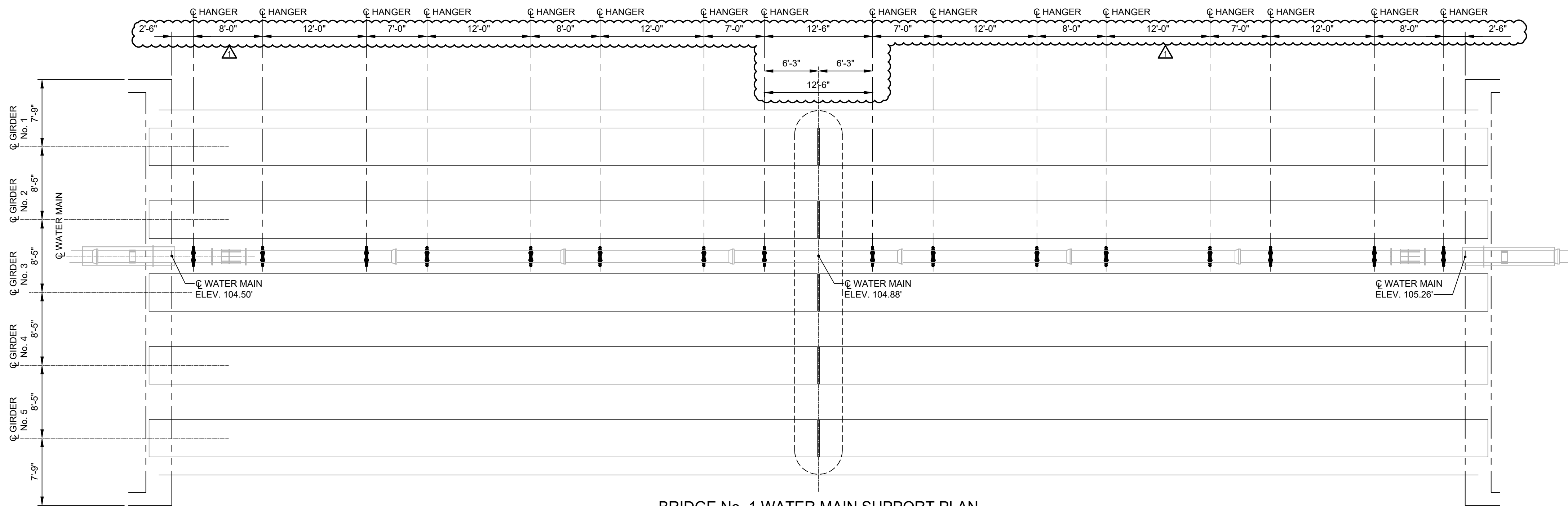


GENERAL CONSTRUCTION NOTES

- THIS PROJECT IS FUNDED IN PART BY USDA RURAL DEVELOPMENT, THE MAINE DRINKING WATER PROGRAM STATE REVOLVING FUND PROGRAM (SRF) AND THE OLD TOWN WATER DISTRICT. THE CONTRACTOR MUST FOLLOW ALL APPLICABLE FUNDING AGENCY REGULATIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL COORDINATE ALL UTILITY CONSTRUCTION WITH THE OLD TOWN WATER DISTRICT, UTILITY COMPANIES, DIG SAFE, EMERGENCY SERVICES AND MAINE DEPARTMENT OF TRANSPORTATION (MDOT) WHERE APPLICABLE. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK TO ALLOW SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF ALL BURIED UTILITIES. CONTRACTOR SHALL ALSO CONTACT "DIG SAFE", TELEPHONE NO 811 OR 888-DIG-SAFE. REPAIR OF ANY DAMAGED UTILITY WILL BE INCIDENTAL TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING OF ANY CONDITION OR OCCURRENCE THAT REPRESENTS A CHANGE IN THE SANITARY SEWER SYSTEM AND WATER SYSTEM PROJECT SCOPE. VERBAL NOTIFICATION IS REQUIRED PRIOR TO PROCEEDING WITH THE WORK OF THE PROJECT AND WRITTEN NOTIFICATION MUST BE PROVIDED. REQUESTS FOR FEE ADJUSTMENTS WILL NOT BE CONSIDERED UNLESS PROPER NOTICE IS GIVEN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PIPE SIZES, INVERTS, AND LOCATIONS, AND SHALL INCLUDE IN SUBMITTAL PRIOR TO ORDERING.
- ALL WATER MAINS AND SERVICES WILL HAVE A MINIMUM 6.0 FEET OF COVER UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER.
- DECHLORINATION OF DISINFECTION WATER WILL BE A REQUIREMENT DURING THE PIPE DISINFECTION PROCESS.
- THE CONTRACTOR SHALL PROVIDE THRUST BLOCKS AT ALL TEES AND BENDS IN THE NEW WATER MAIN PIPING UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BACKFILL TRENCH FOLLOWING EACH DAYS CONSTRUCTION. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT UNLESS APPROVED BY ENGINEER AND PROPERLY BARRICADED (IE. SNOW FENCING, CHAIN LINK FENCING, JERSEY BARRIER OR APPROVED EQUIVALENT. CAUTION RIBBON AND EQUIPMENT PLACEMENT WILL NOT BE APPROVED AS BARRICADING. CONTRACTOR IS RESPONSIBLE TO MAINTAIN TRENCH AS DIRECTED BY THE ENGINEER.
- ALL UTILITY MATERIALS SCHEDULED FOR REMOVAL SHALL BE DISPOSED OF IN A LEGAL MANNER BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE OWNER HAS THE FIRST RIGHT AND REFUSAL FOR ANY DEMOLITION MATERIALS.
- DISPOSAL OF SURPLUS SOIL MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SURPLUS MATERIAL SHALL NOT BE DISPOSED OF ON THE PROJECT SITE. DISPOSAL AREAS SHALL BE MADE UP AT WASTE AREAS WHICH ARE LICENSED TO ACCEPT SUCH MATERIALS, UNLESS THE MATERIAL IS ACCEPTABLE FOR USE AS FILL IN OTHER AREAS OF THE PROJECT. THE OWNER HAS THE FIRST RIGHT AND REFUSAL FOR ANY SURPLUS SOIL MATERIALS.
- ALL PROPOSED WATER MAIN PIPING SHALL BE CLASS 52 DUCTILE IRON.
- ALL PROPOSED WATER SERVICE PIPING SHALL BE 1" TYPE K COPPER UNLESS OTHERWISE NOTED.
- INSTALL FOUR BRONZE WEDGES AT ALL DUCTILE IRON BELL & SPIGOT JOINTS IN WATER MAIN, COST INCIDENTAL TO WATER MAIN INSTALLATION.
- ALL MATERIALS, COMPONENTS, PRODUCTS, SYSTEMS AND COATINGS THAT COME INTO CONTACT WITH DRINKING WATER MUST BE CERTIFIED TO MEET NSF/ANSI STANDARD 61.
- JOINTS SHALL BE RUBBER GASKETED PUSH-ON OR MECHANICAL JOINT TYPE. GASKETS SHALL BE MADE OF SBR RUBBER. FOR WATER MAIN LOCATED WITHIN PETROLEUM HYDROCARBON AND/OR CHLORINATED SOLVENT CONTAMINATED SOILS, GASKETS SHALL BE MADE OF OIL RESISTANT BUNA-N (NITRILE) RUBBER. WHEN CONTAMINATED SOIL IS ENCOUNTERED UNEXPECTEDLY IN THE FIELD, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. ALL JOINTS SHALL BE IN CONFORMANCE WITH REQUIREMENTS OF ANSI/AWWA C111/A21.11.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING TEMPORARY WATER SERVICE TO THE RESIDENCES, AS NEEDED, TO MAINTAIN WATER SERVICE DURING THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL MAINTAIN TEMPORARY WATER THROUGHOUT CONSTRUCTION OF THE PROJECT. A PAY ITEM HAS BEEN PROVIDED FOR THIS WORK. THE CONTRACTOR SHALL PROVIDE A TEMPORARY WATER SERVICE PLAN TO THE OWNER AND ENGINEER FOR APPROVAL PRIOR TO INSTALLATION SYSTEM. COST TO PROVIDE PLAN SHALL BE INCIDENTAL TO ITEM. TEMPORARY WATER SERVICE PLAN SHALL INCLUDE PIPE MATERIAL, PIPE ROUTING, BURIAL DEPTHS WHERE NEEDED, DISINFECTION PROCESS AND ANY OTHER INFORMATION THAT MAY BE REQUIRED FOR APPROVAL.
- EXISTING FIRE HYDRANTS TO REMAIN ACTIVE AT ALL TIMES, UNTIL REPLACEMENT WITH NEW HYDRANT.
- AT THE END OF EACH DAYS WORK, THE CONTRACTOR SHALL SPRAY THE INSIDE OF THE END OF WATER PIPE WITH SODIUM HYPOCHLORITE AND BLOCK PIPE OVERNIGHT WITH SANITARY WATERTIGHT PLUG TO PREVENT ANIMALS FROM ENTERING PIPE.
- WHERE THERE IS LESS THAN TEN FEET OF HORIZONTAL SEPARATION BETWEEN THE SANITARY SEWER MAIN AND THE WATER MAIN, PROVIDE 18" OF VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER.
- PROPOSED SERVICES SHALL BE PROVIDED FROM THE NEW MAIN TO THE RIGHT-OF-WAY, OR AS INDICATED ON THE PLANS.
- THE CONTRACTOR SHALL PROVIDE MECHANICAL JOINT CAPS ON ALL EXISTING WATER MAINS THAT ARE TO BE ABANDONED FOR THIS PROJECT. THE CAP SHALL BE PLACED ON THE EXISTING WATER MAIN AFTER THE EXISTING MAIN HAS BEEN CUT FOR THE CONNECTION OF THE NEW WATER MAIN AND BEFORE THE TRENCH IS BACKFILLED.
- CONTRACTOR SHALL MAINTAIN WATER SERVICE TO RESIDENTS AT ALL TIMES. CONTRACTOR SHALL COORDINATE CONNECTION OF SERVICES TO THE NEW MAINS WITH THE OLD TOWN WATER DISTRICT.
- THE CONTRACTOR SHALL ASSUME THAT ALL BUILDINGS HAVE A WATER SERVICE, WHETHER SHOWN ON THE DRAWINGS OR NOT. SERVICE LOCATIONS WHERE SHOWN ARE APPROXIMATE AND HAVE BEEN COMPILED FROM FIELD SURVEY, TOWN RECORDS AND WATER DISTRICT RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATION OF ALL SERVICE LOCATIONS.
- COORDINATE DISRUPTION OF PRIVATE UTILITY SERVICES WITH LANDOWNERS AT LEAST TWO DAYS (48 HOURS) PRIOR TO DISRUPTION. ALL UTILITY COORDINATION IS RESPONSIBILITY OF CONTRACTOR.
- WATER SERVICES SHALL NOT BE DISCONTINUED AT ANY HOUSE PRIOR TO 10:00 AM WITHOUT WRITTEN NOTIFICATION TO THE PROPERTY OWNER.
- ALL EXISTING WATER MAINS ABANDONED SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL, COST SHALL BE INCIDENTAL TO PROJECT.
- THE CONTRACTOR SHALL RAISE ALL EXISTING UTILITY COVERS AND BOXES TO MATCH NEW ELEVATIONS AS INDICATED ON THE DRAWINGS.
- THE OLD TOWN WATER DISTRICT REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "AS-BUILT" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS WITHIN THE PUBLIC RIGHT OF WAY INCLUDING MODIFICATIONS TO THE WATER SYSTEM WITHIN THE PROJECT LIMITS BE SUBMITTED TO THE OLD TOWN WATER DISTRICT. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL (CAD) DRAWING AND HARD COPY FORMAT. A CAD FILE WILL BE AVAILABLE TO THE CONTRACTOR.
- IN THE EVENT THAT DISCREPANCIES OR CONFLICTS BETWEEN MAINTDOT SPECIFICATIONS SPECIAL PROVISIONS AND PLANS OCCUR WITH THE WATER UTILITIES SPECIFICATIONS SPECIAL PROVISIONS AND PLANS, MAINTDOT OR MORE RESTRICTIVE SHALL PREVAIL.
- THE CONSTRUCTION OF THE PROPOSED WATER MAIN, SERVICES AND APPURTENANCES ARE BEING COMPLETED IN CONJUNCTION WITH MAINTDOT ROADWAY CONSTRUCTION PROJECT. THE CONTRACTOR SHALL COORDINATE WORK SEQUENCING TO ENSURE THAT ALL WORK ELEMENTS ASSOCIATED WITH THE WATER MAIN INSTALLATION AND THE ROAD RECONSTRUCTION / REHABILITATION ARE COMPLETED WITHIN THE SCHEDULE REQUIRED BY THE MAINTDOT CONTRACT DOCUMENTS.
- PROVIDE MINIMUM 3 FOOT HORIZONTAL SEPARATION BETWEEN WATER AND STORM DRAINAGE PIPES AND STRUCTURES UNLESS OTHERWISE NOTED. WHERE WATER MAINS CROSS STORM DRAINAGE PIPES OR STRUCTURES PROVIDE AT LEAST 1 FOOT SEPARATION.
- IF A CONFLICT EXISTS BETWEEN THE PROPOSED WATER MAIN AND STORM DRAIN FEATURES, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ADJUST THE WATER MAIN TO AVOID CONFLICT. THE COST TO RESOLVE CONFLICTS DURING INSTALLATION BETWEEN THE PROPOSED WATER MAIN AND PROPOSED STORM DRAIN THAT COULD HAVE BEEN AVOIDED BY COORDINATING WITH THE MDOT, AND THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

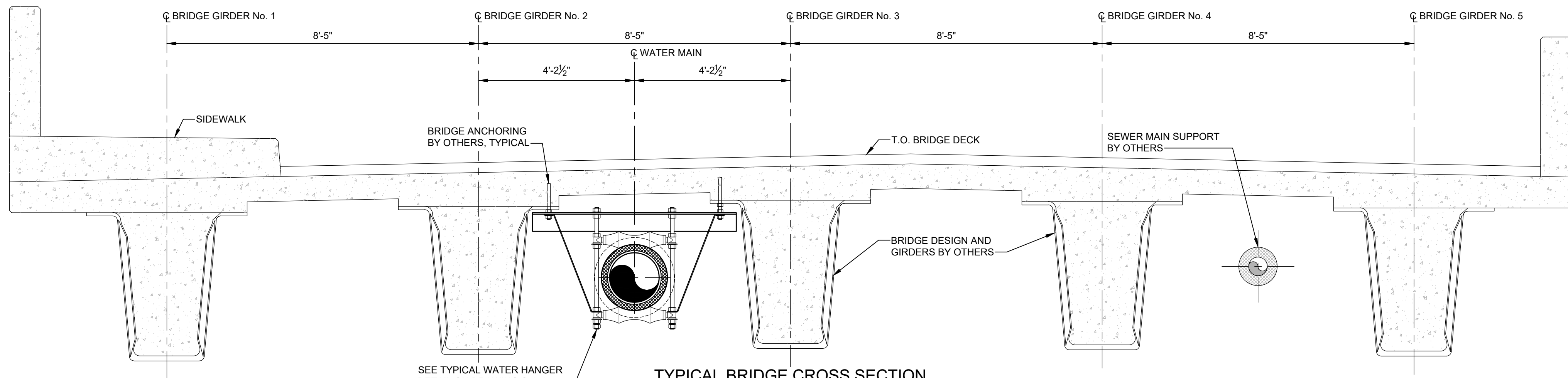
REV.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				
FOR CONSTRUCTION				
 ENGINEERING ENVIRONMENTAL SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824				
PROJECT OLD TOWN WATER DISTRICT STILLWATER AVE WATER MAIN REPLACEMENT MDOT WIN 22511.02 & 22512.02				
TITLE PROPOSED WATER SYSTEM NOTES & DETAILS				
DATE 2025.01.15		SCALE NTS		
DRAWN BY WAB		DESIGNED BY NAG		CHECKED BY SAM
PROJECT No.		10345.003		
DRAWING No.		C501		REV.

FILE LOCATION: P:\ME110345-OLD_TOWN_WATER_DIST\003-STILLWATER BRIDGE WM-CPR102-CAD_DRAWINGS\STRUCTURAL\10345.003 - STILLWATER BRIDGE UTILITY SUPPORT DWG. 2025.12.17, 3:28 PM



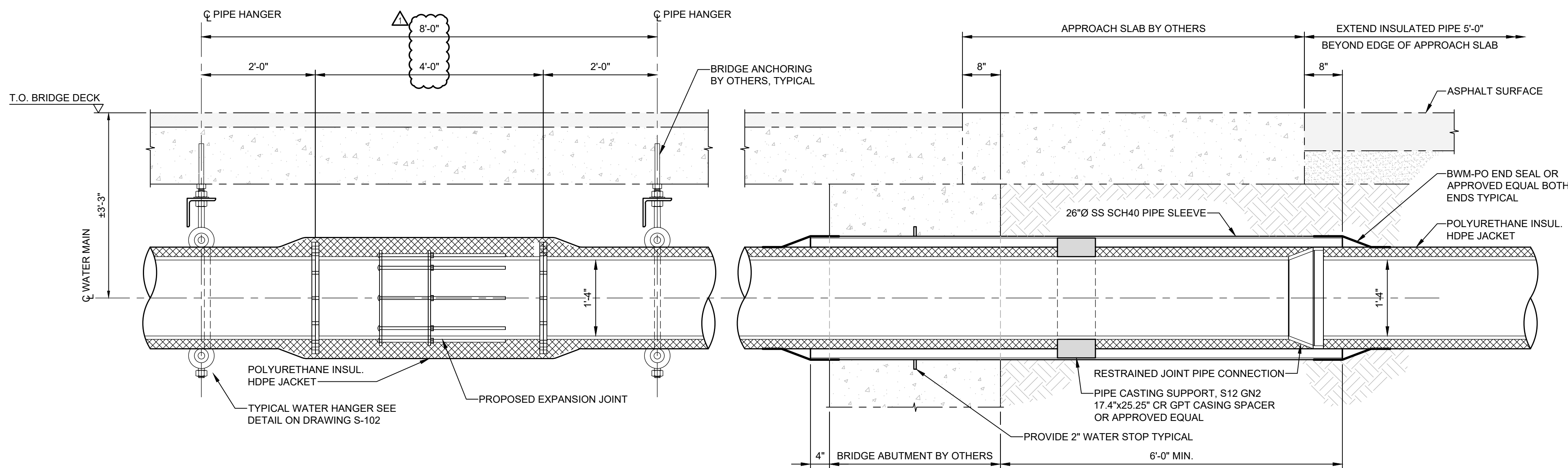
BRIDGE No. 1 WATER MAIN SUPPORT PLAN

SCALE: $\frac{1}{8}$ " = 1'-0"



TYPICAL BRIDGE CROSS SECTION

SCALE: $\frac{1}{2}$ " = 1'-0"



TYPICAL EXPANSION JOINT AND ABUTMENT DETAIL

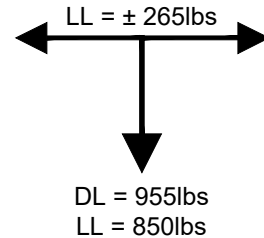
SCALE: 1" = 1'-0"

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE "AISC CODE OF STANDARD PRACTICE."
2. ALL STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO THE FOLLOWING:
ANGLE & PLATE
THREADED ROD
ASTM A36
ASTM A490N
3. STEEL MEMBER SHALL BE CUT FROM FULL LENGTH STOCK. UNAUTHORIZED SPLICES WILL BE CAUSE FOR REJECTION.
4. ALL STRUCTURAL STEEL EXPOSED TO THE WEATHER INCLUDING ALL LINTEL ANGLES SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

BRIDGE ANCHORING DESIGN LOADS:

1. THE BRIDGE ANCHORS DESIGNED BY OTHER FOR THE FOLLOWING LOADS:



1	2025-12-17	REVISED FOR HANGER SPACING	MEB	CDL
0	2025-01-15	ISSUED FOR CONSTRUCTION	ZAT	CDL
No.	DATE	DESCRIPTION	BY	CHK.

DRAWING ISSUE STATUS
FOR CONSTRUCTION

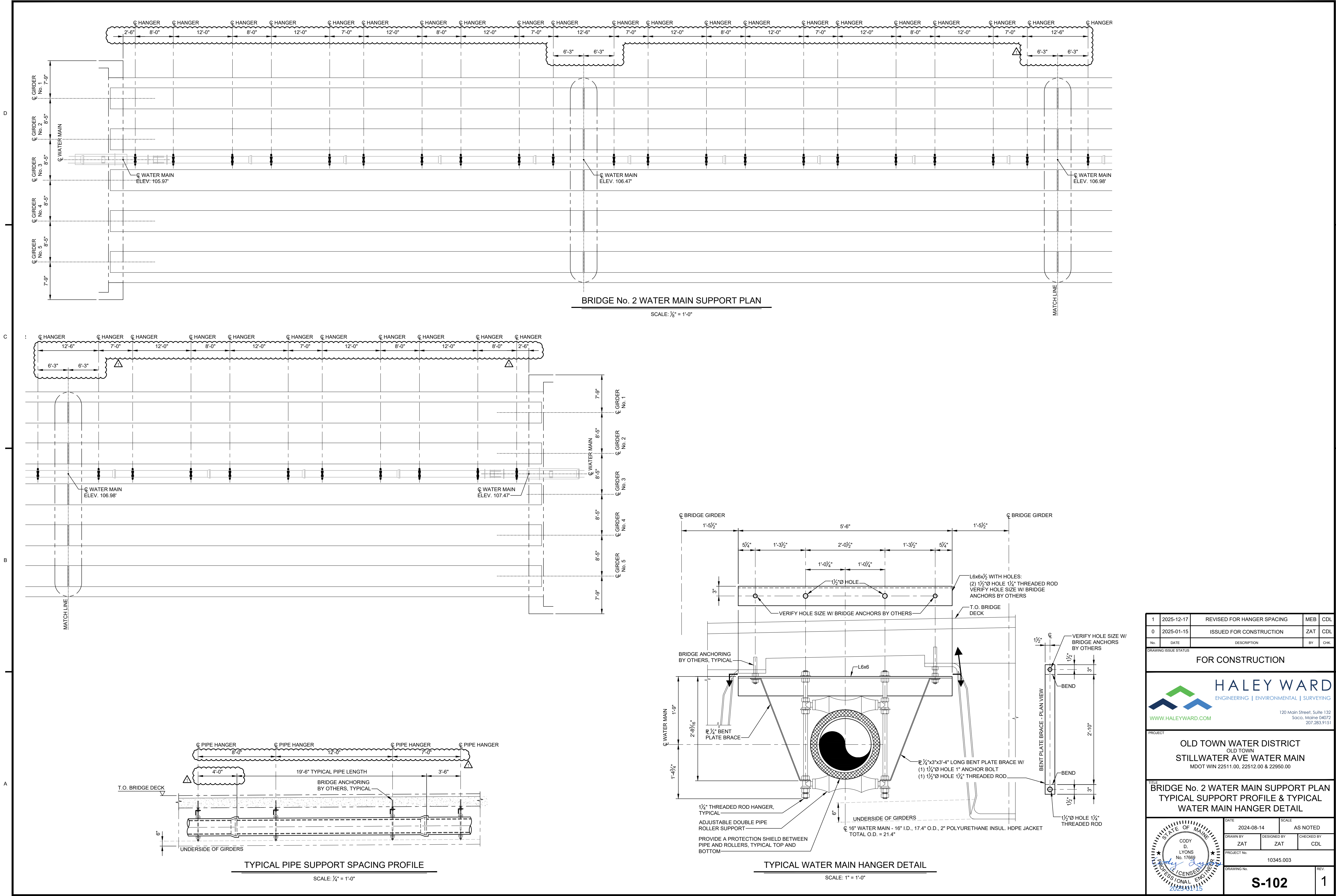


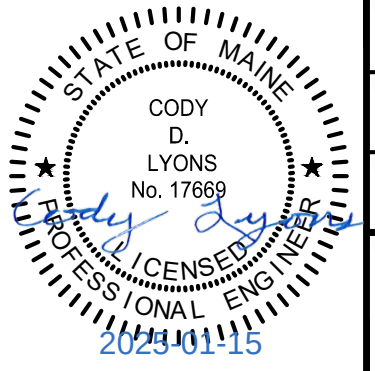
PROJECT
OLD TOWN WATER DISTRICT
OLD TOWN
STILLWATER AVE WATER MAIN
MDOT WIN 22511.00, 22512.00 & 22950.00

TITLE
BRIDGE No. 1 WATER MAIN SUPPORT PLAN,
SECTION, DETAILS AND NOTES

	DATE	2024-08-14	SCALE	AS NOTED
	DRAWN BY	ZAT	DESIGNED BY	ZAT
	CHECKED BY	CDL	PROJECT No.	10345.003
	DRAWING No.	S-101	REV.	1

FILE LOCATION: P:\ME110345-OLD_TOWN_WATER_DIST\003-STILLWATER BRIDGE WM-CPR02-CAD_DRAWINGS\STRUCTURAL\10345.003 - STILLWATER BRIDGE UTILITY SUPPORT DWG. 2025.12.17, 3:29 PM



1	2025-12-17	REVISED FOR HANGER SPACING	MEB	CDL
0	2025-01-15	ISSUED FOR CONSTRUCTION	ZAT	CDL
No.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				
FOR CONSTRUCTION				
 HALEY WARD ENGINEERING ENVIRONMENTAL SURVEYING www.haleyward.com 120 Main Street, Suite 132 Soco, Maine 04072 207.283.9151				
PROJECT				
OLD TOWN WATER DISTRICT OLD TOWN STILLWATER AVE WATER MAIN MDOT WIN 22511.00, 22512.00 & 22950.00				
TITLE				
BRIDGE No. 2 WATER MAIN SUPPORT PLAN TYPICAL SUPPORT PROFILE & TYPICAL WATER MAIN HANGER DETAIL				
 CODY D. LYONS No. 17668 PROFESSIONAL ENGINEER 2024.01.15	DATE	2024-08-14	SCALE	AS NOTED
	DRAWN BY	ZAT	DESIGNED BY	ZAT
	CHECKED BY	CDL	PROJECT No.	10345.003
	DRAWING No.		REV	
S-102				1