

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



CHARLOTTE WASHINGTON COUNTY ROUND POND BRIDGE OVER ROUND POND OUTLET CHARLOTTE ROAD FEDERAL AID PROJECT NUMBER 2610500 PROJECT LENGTH 0.118 mi. BRIDGE NO. 3787

LIST OF DRAWINGS

Title Sheet	1
Estimated Quantities & General Construction Notes	2
General Plan	3
Profile	4
Boring Location Plan	5
Interpretive Subsurface Profile	6
Boring Logs	7-8
Highway Approach Cross - Sections	9-14
Abutment No. 1	15
Abutment No. 2	16
Abutment Details	17
Abutment No. 1 Reinforcement	18
Abutment No. 2 Reinforcement	19
Abutment Sections	20
Precast Concrete Details	21-22
Superstructure Plan	23
Superstructure Section and End Diaphragm Reinforcement	24
Reinforcing Steel Schedule	25
Right of Way Map	26

UTILITIES

Eastern Maine Electric Coop
Consolidated Communications

TRAFFIC DATA

Current (2023) AADT	810
Future (2043) AADT	890
DHV - % of AADT	11
Design Hour Volume	98
Heavy Trucks (% of AADT)	5
Heavy Trucks (% of DHV)	5
Directional Distribution (% of DHV)	54
18 kip Equivalent P 2.0	32
18 kip Equivalent P 2.5	31
Design Speed (mph)	45 South of Bridge, 35 North of Bridge

MAINTENANCE OF TRAFFIC

Maintain one lane of alternating one - way traffic on a temporary detour using traffic signals.

SPECIFICATIONS

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

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

MATERIALS

Concrete:
 Curbs Class "LP"
 Precast Class "P"
 All Other Class "A"
 Reinforcing:
 Plain Reinforcing Steel ASTM A615, Grade 60
 Glass Fiber Reinforcing Polymer (GFRP) ASTM D7957
 Low-Carbon Chromium Steel ASTM A1035, Type CS, Grade 100
 Prestressing Strands AASHTO M 203 (ASTM A416),
 Grade 270, Low Relaxation
 Structural Steel:
 H-Piles ASTM A572, Grade 50

BASIC DESIGN STRESSES

Concrete:
 Class "A" f 'c = 4,000 psi
 Class "LP" f 'c = 5,000 psi
 Class "P" f 'c = 8,000 psi
 f 'ci = 6,500 psi
 Reinforcing:
 Plain Reinforcing Steel f y = 60,000 psi
 Glass Fiber Reinforced Polymer
 Minimum Tensile Strength f fu = 100,000 psi
 Minimum Elastic Modulus E f = 8,700,000 psi
 Minimum Nominal Design Tensile Strain e fu = 1.1%
 Low-Carbon Chromium Steel: f y = 100,000 psi
 Prestressing Strand F μ = 270,000 psi
 Structural Steel:
 H-Piles F y = 50,000 psi

PROJECT LOCATION	Round Pond Bridge (#3787) over Round Pond Outlet. Located 1.10 miles northeast of Ayers Junction Road. Lat./Long. 45°00'50.7" N 67°15'22.4" W
PROGRAM AREA	Highway-Bridges
OUTLINE OF WORK	Bridge Replacement with Associated Approach Work

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		2-7-25
CHIEF ENGINEER: <i>[Signature]</i>		2-4-2025

STATE OF MAINE Benjamin J. Bartlett 16323 LICENSED PROFESSIONAL ENGINEER	<i>[Signature]</i> SIGNATURE 16323	01/22/2025 P.E. NUMBER DATE
---	--	-----------------------------------

PROJECT INFORMATION	BRIDGE	M. PARLIN	B. BARTLETT
PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT
	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE

CHARLOTTE ROUND POND BRIDGE	TITLE SHEET
--------------------------------	-------------

2610500	WIN 026105.00
SHEET NUMBER	
1	
OF 26	

Date: 1/15/2025
 Username: RichardMoyer
 Division: BRIDGE
 Filename: \\001\BRIDGE\WSTA\001_Title.dgn

Date: 1/15/2025

Username: Richard.Moyer

Division: BRIDGE

Filename: ... \MSTA\002_Estimate-GCN.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.19	REMOVING EXISTING BRIDGE (200 CY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	130	SY
203.20	COMMON EXCAVATION	1,800	CY
203.25	GRANULAR BORROW	340	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	470	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1,310	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	191	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	299	T
409.15	BITUMINOUS TACK COAT - APPLIED	91	G
461.131	TEMPORARY PAVEMENT	110	T
501.231	DYNAMIC LOADING TEST	2	EA
501.50	STEEL H-BEAM PILES 89 LBS/FT, DELIVERED	900	LF
501.501	STEEL H-BEAM PILES 89 LBS/FT, IN PLACE	850	LF
501.90	PILE TIPS	10	EA
501.91	PILE SPLICES	20	EA
501.92	PILE DRIVING EQUIPMENT MOBILIZATION	1	LS
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS (83 CY)	1	LS
502.261	STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLAB ON CONCRETE BRIDGE (65 CY)	1	LS
502.291	SAW CUT GROOVING (1,660 SF)	1	LS
502.31	STRUCTURAL CONCRETE APPROACH SLABS (21 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (6 CY)	1	LS
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	15,400	LB
503.13	REINFORCING STEEL, PLACING	15,400	LB
503.19	LOW-CARBON, CHROMIUM REINFORCEMENT - FABRICATED & DELIVERED	9,300	LB
503.20	LOW-CARBON, CHROMIUM REINFORCEMENT - PLACING	9,300	LB
507.0821	STEEL BRIDGE RAILING, 3 BAR (118 LF)	1	LS
507.0822	STEEL APPROACH RAILING, 3 BAR	4	EA
510.10	SPECIAL DETOUR 18 FOOT ROADWAY WIDTH VEHICULAR & PEDESTRIAN TRAFFIC NOT SEPARATED	1	LS
511.07	COFFERDAM, ABUTMENT NO. 1	1	LS
511.07	COFFERDAM, ABUTMENT NO. 2	1	LS
512.081	FRENCH DRAINS (140 LF)	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (281 SY)	1	LS
526.301	PORTABLE CONCRETE BARRIER TYPE I (60 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	4	UN
530.30	GFRP, REINFORCEMENT BARS, FAB & DEL	11,180	LF
530.31	GFRP, REINFORCEMENT BARS, PLACING	11,180	LF
535.622	PRESTRESSED STRUCTURAL CONCRETE NEXT BEAM (53 CY)	1	LS
606.1301	3" W-BM GR, MID-WAY SPLICE-SGL FACED	388	LF
606.1305	3" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	4	EA
606.1721	BRIDGE TRANSITION - TYPE I	4	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.08	PLAIN RIPRAP	648	CY
610.18	STONE DITCH PROTECTION	5	CY
613.319	EROSION CONTROL BLANKET	190	SY
615.07	LOAM	49	CY
618.14	SEEDING METHOD NUMBER 2	8	UN
619.12	MULCH	8	UN
619.14	EROSION CONTROL MIX	98	CY
620.58	EROSION CONTROL GEOTEXTILE	1,000	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1,950	LF
627.77	REMOVING PAVEMENT MARKINGS	332	SF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	1,065	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.14	GRADER (INCLUDING OPERATOR)	10	HR
631.15	ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADE	6	EA
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (120 CD)	1	LS
652.38	FLAGGER	100	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

- For easements, construction limits, and right of way lines, refer to the Right of Way Map.
- The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.
- All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- Existing signs within the Project limits shall be removed and reset as directed by the Resident. Payment for removal and reinstallation of existing signs will be considered incidental to the Contract. No separate payment will be made.
- Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
- 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.
- All embankment material, except as otherwise shown, placed below EL. 76.0 shall be Granular Borrow meeting the requirements of Standard Specifications Subsection 703.19, Granular Borrow, for Material for Underwater Backfill.
- Construct the riprap shelf at each abutment at EL. 77.5.
- Stones which cannot be rolled or compacted into the surface of the shoulder shall be removed by hand raking. Payment for hand raking will be considered incidental to Pay Item 304.10, Aggregate Subbase Course - Gravel.
- Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
- 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.
- Place a 24 inch wide strip of Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
- A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
- 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.
- Protective Coating for Concrete Surfaces shall be applied to the following areas:
 All exposed surfaces of concrete curbs, Fascias down to the drip notch, Concrete wearing surfaces, Top of abutment backwalls and wingwalls, and To one foot below the ground on vertical walls against earth.
- Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>
- The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

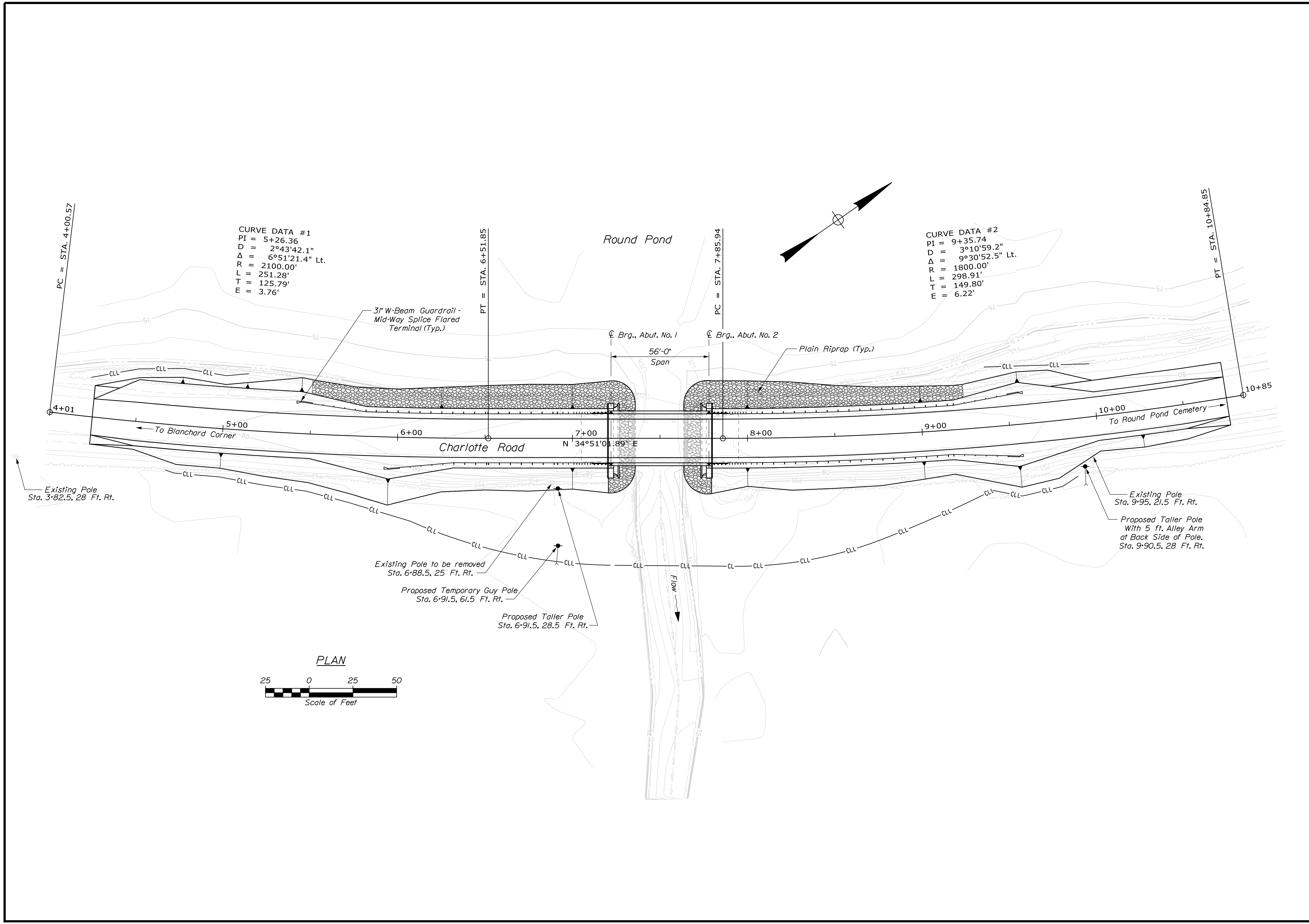
- The project geotechnical report titled: Geotechnical Design Report for the Replacement of Round Pond Bridge, Charlotte, Maine, Soils Report 2024-19, dated October 29, 2024, may be accessed at the MaineDOT web address.
- Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.
- 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
- Existing abutments shall be removed in their entirety, except that the existing piles may be left in place.
- Contractor shall install "No Parking" signs along both sides of the roadway starting at Station 9+50 going North for 150'. Spacing to be determined by the Resident. Payment shall be made under Item 652.35 Construction Signs.
- The Contractor shall not block access to or park in the beach area to the north of the bridge, near the intersection with Station Road. The Contractor shall not use the beach area for storage of materials and equipment.
- Excavation required outside of the Limits of Structural Earth Excavation and Granular Borrow and outside of the existing abutments shall be paid for as Common Excavation.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500		WIN		026105.00		BRIDGE NO. 3787		BRIDGE PLANS	
ROUND POND BRIDGE		ROUND POND OUTLET		WASHINGTON COUNTY		CHARLOTTE		ESTIMATED QUANTITIES & GENERAL CONSTRUCTION NOTES		SHEET NUMBER		2	
PROJ. MANAGER	M. PARLIN	BY	D. SHAW	DATE	OCT 2023	SIGNATURE		P.E. NUMBER		DATE			
DESIGN-DETAILED	B. BARTLETT	CHECKED-REVIEWED	T. WHITE	DESIGN-DETAILED	JUL 2024	DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3	
								REVISIONS 4		FIELD CHANGES			

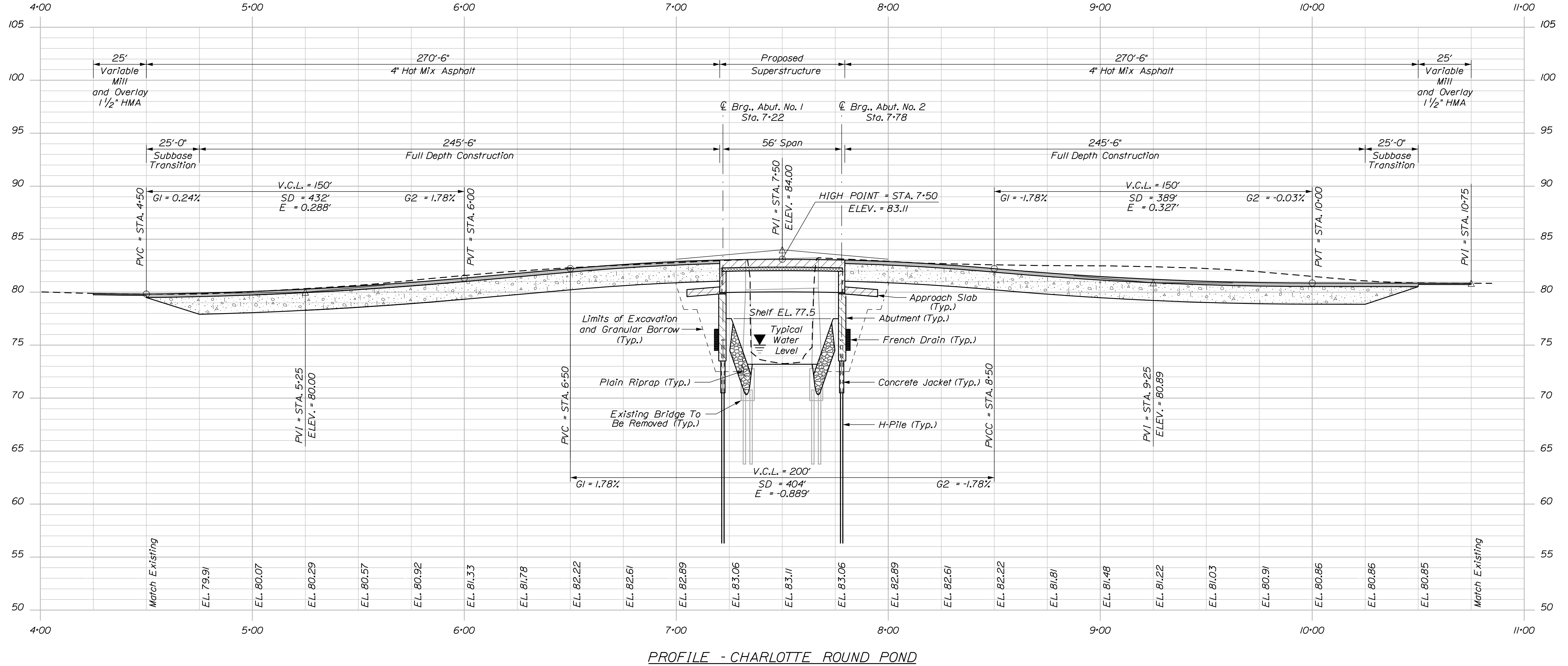
Date: 1/15/2025

Username: Richard.Mayer

Filename: ... \00\BRIDGE\MSTA\003_GenPlan.dgn Division: BRIDGE



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500	
BRIDGE NO. 3787		WIN		026105.00	
BRIDGE PLANS		SIGNATURE		P.E. NUMBER	
DATE		DATE		DATE	
PROJ. MANAGER	M. PARLIN	BY	D. SHAW	DATE	OCT 2023
DESIGN-DETAILED	B. BARTLETT	CHECKED-REVIEWED	T. WHITE	DATE	JUL 2024
DESIGN-DETAILED	N. PIKAY	DESIGN-DETAILED			
REVISIONS 1		REVISIONS 2			
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					
ROUND POND BRIDGE		WASHINGTON COUNTY		SHEET NUMBER	
ROUND POND OUTLET		GENERAL PLAN		3	
CHARLOTTE				OF 26	



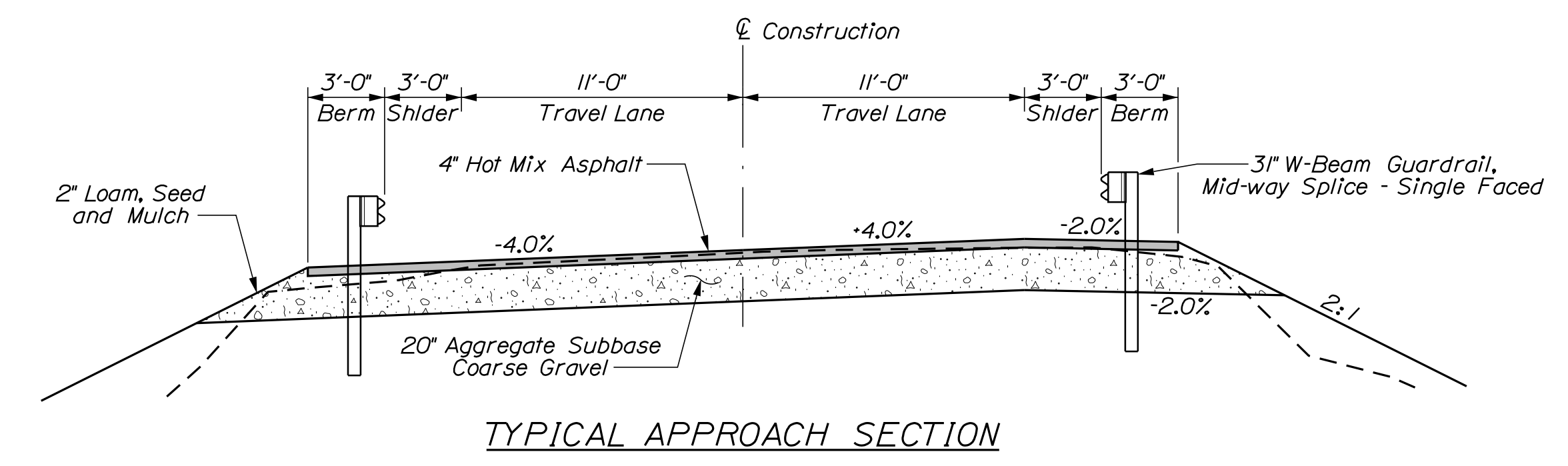
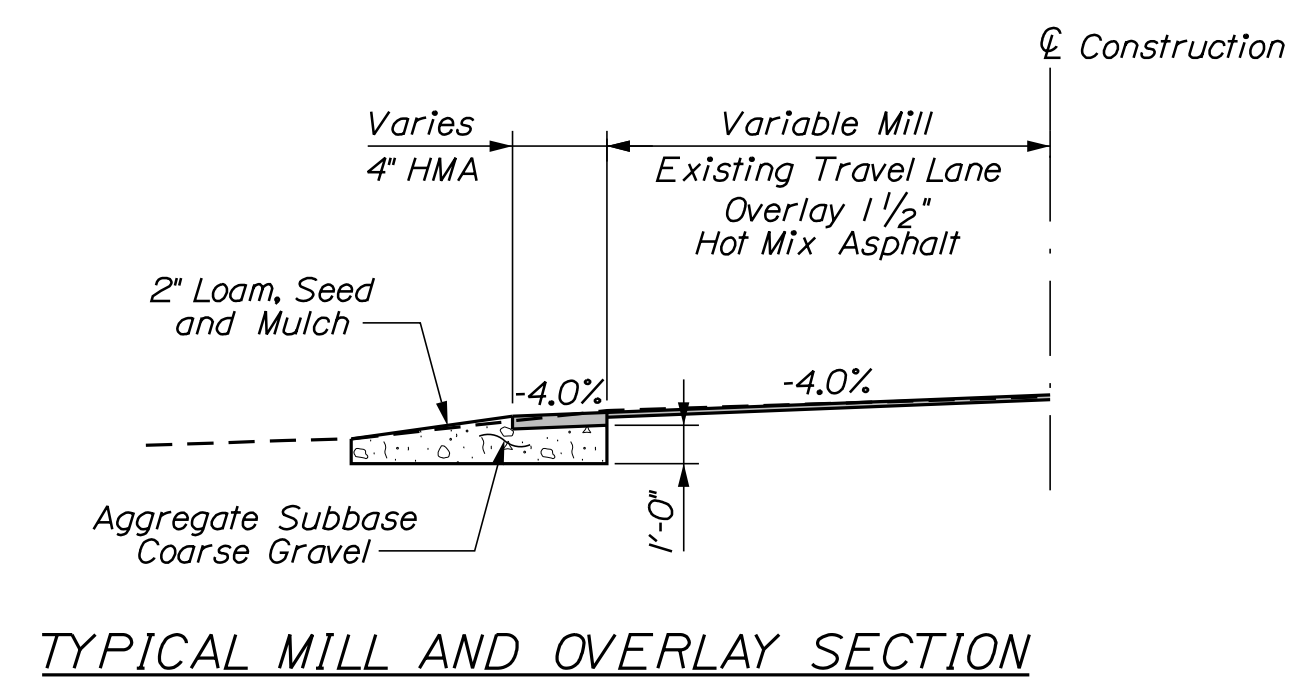
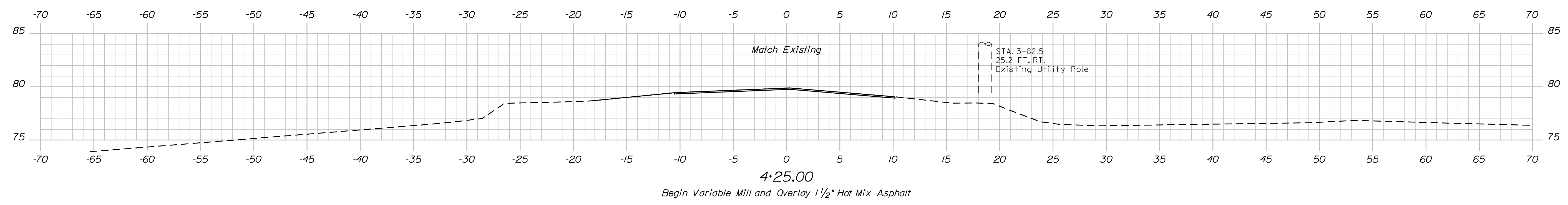
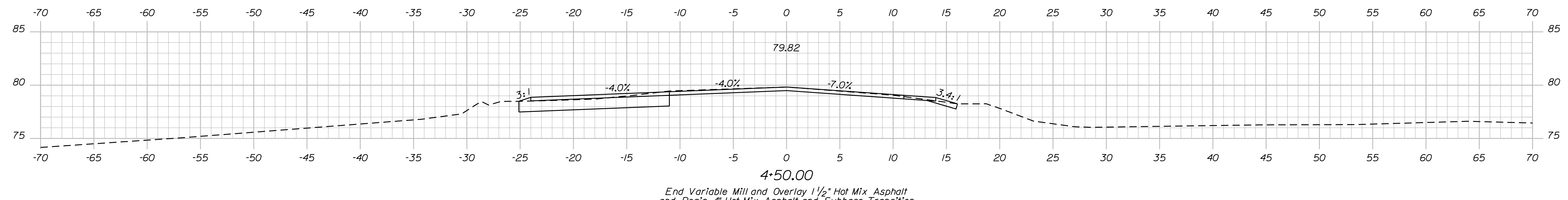
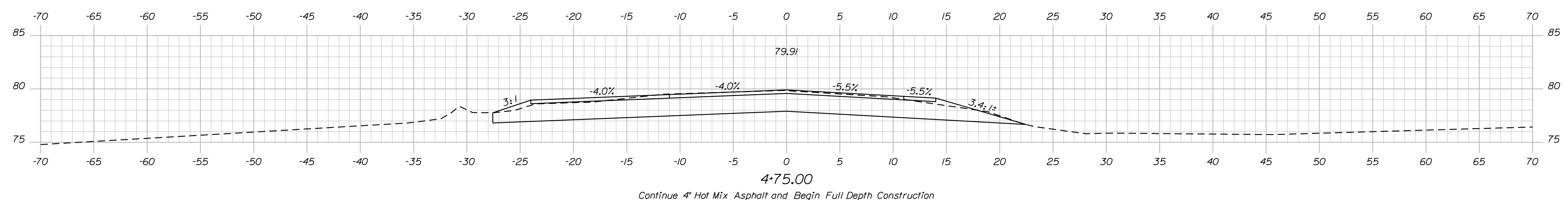
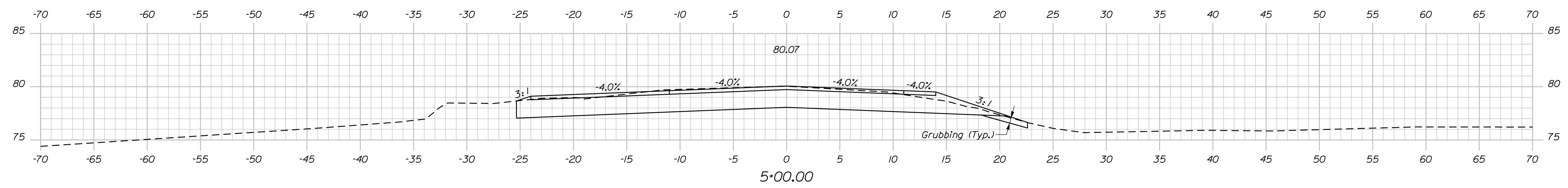
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500		WIN		026105.00		BRIDGE NO. 3787		BRIDGE PLANS			
ROUND POND BRIDGE				ROUND POND OUTLET				WASHINGTON COUNTY				PROFILE			
CHARLOTTE				SHEET NUMBER				4				OF 26			
PROJ. MANAGER		M. PARLIN		BY		D. SHAW		DATE		OCT 2023		SIGNATURE			
CHECKED/REVIEWED		B. BARTLETT		DESIGNED/DETAILED		N. PIKAY		DATE		JUL 2024		P.E. NUMBER			
DESIGNS/DETAILED		T. WHITE		REVISIONS 1				REVISIONS 2				DATE			
REVISIONS 3				REVISIONS 4				FIELD CHANGES							

Date: 1/15/2025

Username: Richard.Mayer

Division: BRIDGE

Filename: ... \MSTA\09_XSECT_4+25-5+00.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2610500
WIN
026105.00
BRIDGE NO. 3787
BRIDGE PLANS

PROJ. MANAGER	M. PARLIN	DATE	
CHECKED-REVIEWED	B. BARTLETT	DATE	OCT 2023
DESIGN-REVIEWED	D. SHAW	DATE	
DESIGN-DETAILED	N. PIKAY	DATE	JUL 2024
REVISIONS 1		SIGNATURE	
REVISIONS 2		P.E. NUMBER	
REVISIONS 3		DATE	
REVISIONS 4			
FIELD CHANGES			

ROUND POND BRIDGE	WASHINGTON COUNTY
ROUND POND OUTLET	
CHARLOTTE	
CROSS SECTIONS	

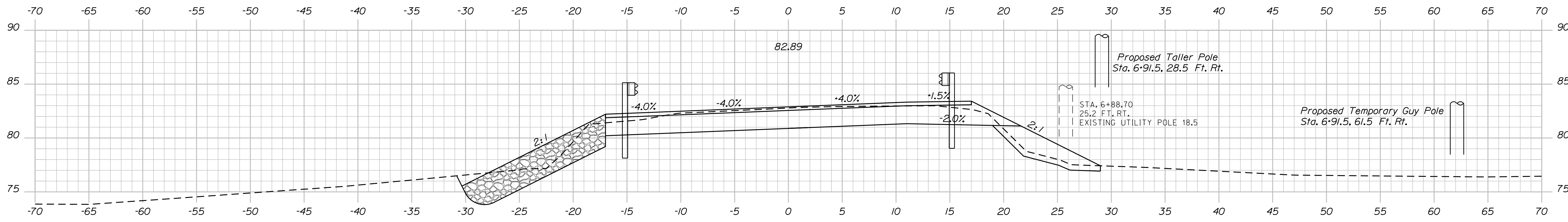
SHEET NUMBER
9
OF 26

Date: 1/15/2025

Username: Richard.Mayer

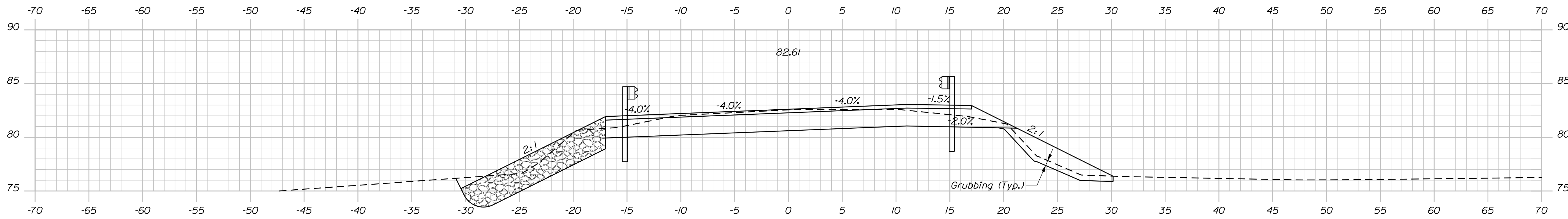
Division: BRIDGE

Filename: ... \MST\A011_XSECT_6-25-7-00.dgn



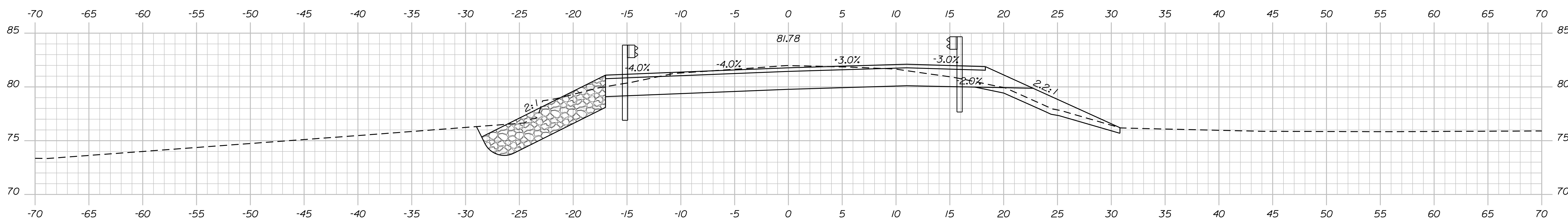
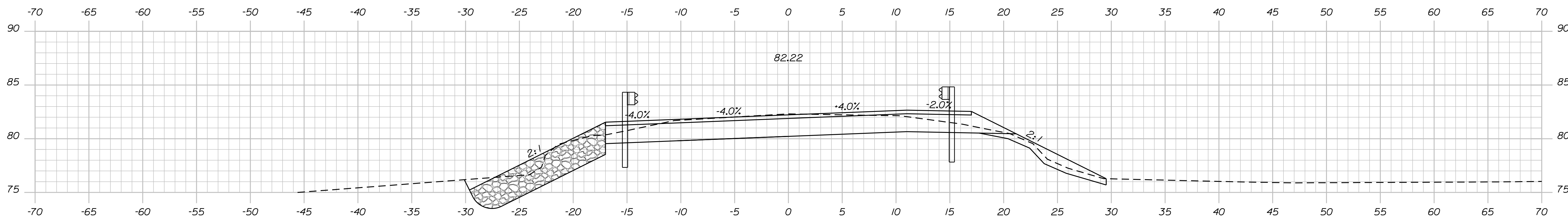
Sta. 7+10.2, 14.0 Ft. Lt. to Bridge
Install Steel Approach Railing - 3-Bar

Sta. 7+10.2, 14.0 Ft. Rt. to Bridge
Install Steel Approach Railing - 3-Bar



Sta. 6+91.4, 14.0 Ft. Lt. to Sta. 7+10.2, 14.0 Ft. Lt.
Install Bridge Transition - Type I

Sta. 6+91.4, 14.0 Ft. Rt. to Sta. 7+10.2, 14.0 Ft. Rt.
Install Bridge Transition - Type I



Sta. 6+32.2, 14.0 Ft. Rt. to Sta. 6+91.4, 14.0 Ft. Rt.
Install 59.4 L.F. of 3" W-Beam Guardrail, Mid-Way Splice - Single Faced

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2610500
WIN 026105.00
BRIDGE NO. 3787
BRIDGE PLANS

DESIGNED	DATE
CHECKED	OCT 2023
REVIEWED	D. SHAW
DESIGNED	DATE
CHECKED	JUL 2024
REVIEWED	T. WHITE
DESIGNED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

PROJ. MANAGER	M. PARLIN
CHECKED	B. BARTLETT
REVIEWED	D. SHAW
DESIGNED	N. PIKAY
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

ROUND POND BRIDGE
ROUND POND OUTLET
WASHINGTON COUNTY
CHARLOTTE
CROSS SECTIONS

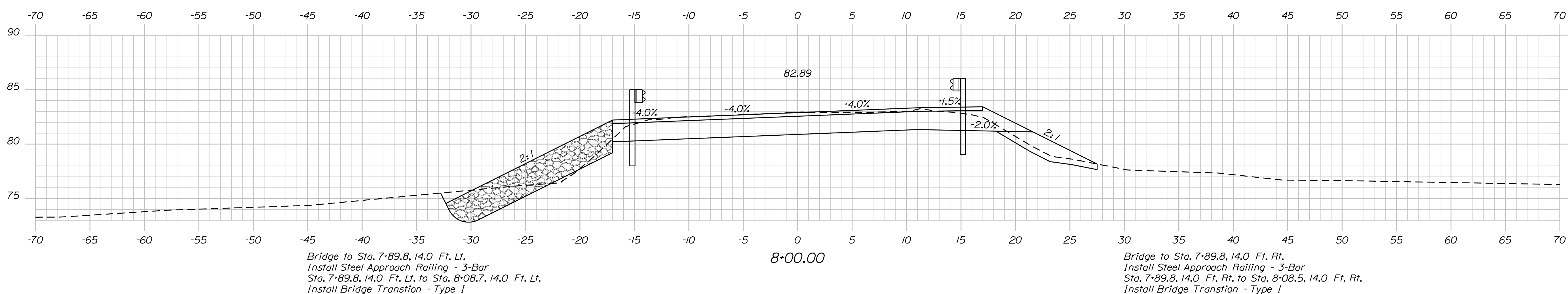
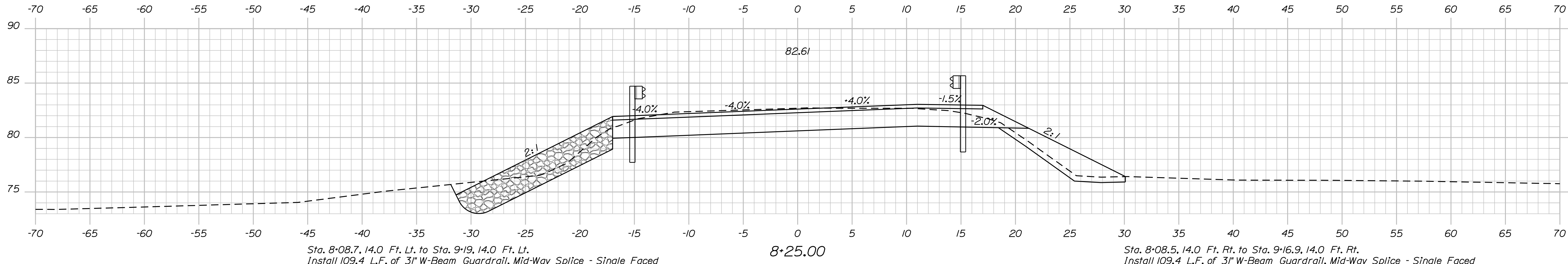
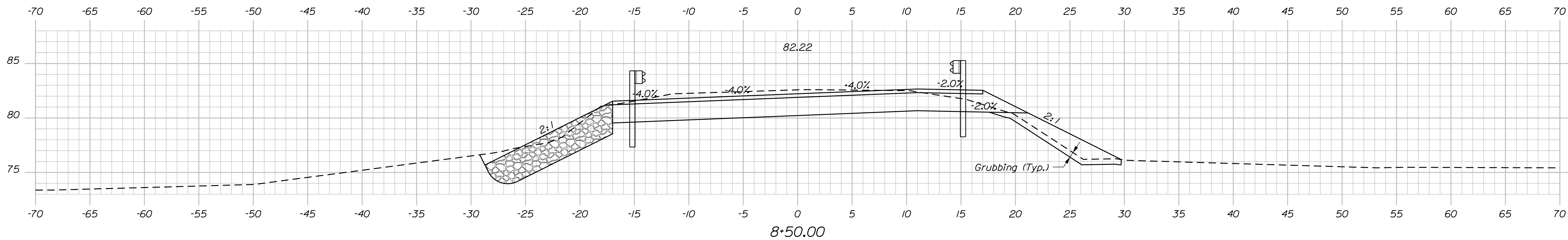
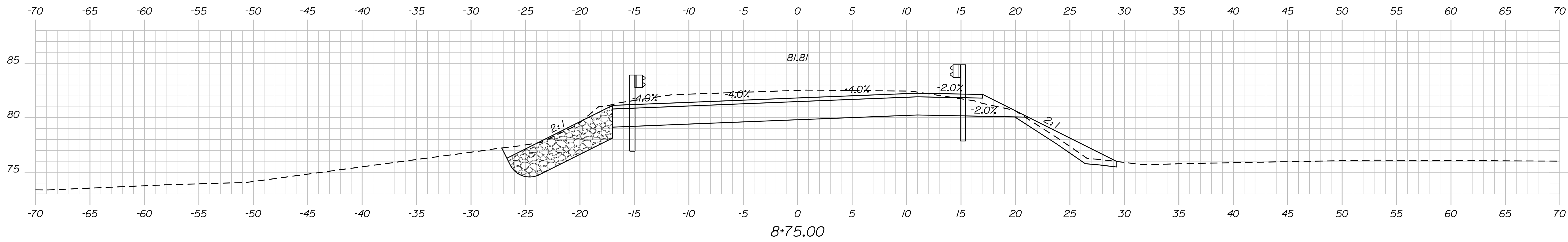
SHEET NUMBER
11
OF 26

Date: 1/15/2025

Username: Richard.Mayer

Division: BRIDGE

Filename: ... \MSTAV012_XSECT_8+00-8+75.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2610500
WIN 026105.00
BRIDGE NO. 3787
BRIDGE PLANS

PROJ. MANAGER M. PARLIN
DESIGN DETAILED B. BARTLETT
CHECKED/REVIEWED D. SHAW
DESIGN DETAILED N. PIKAY
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

DATE OCT 2023
SIGNATURE
P.E. NUMBER
DATE

ROUND POND BRIDGE
ROUND POND OUTLET
WASHINGTON COUNTY
CHARLOTTE

CROSS SECTIONS

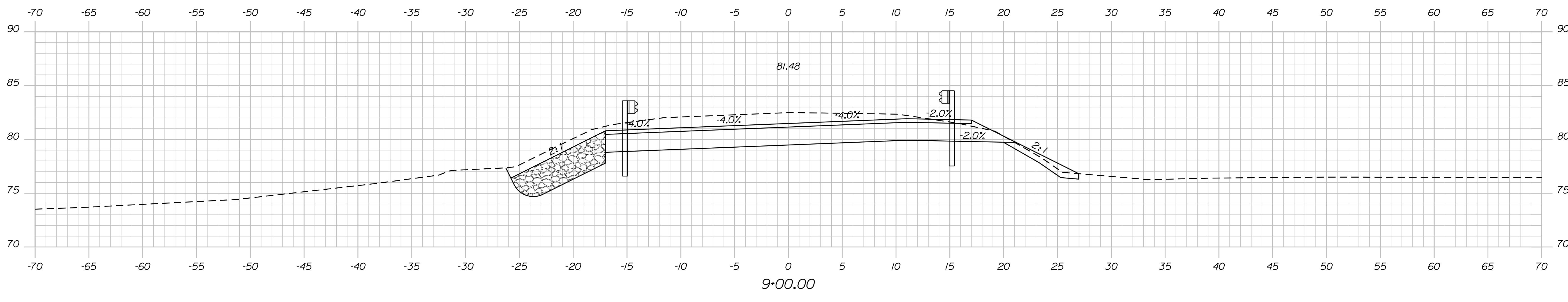
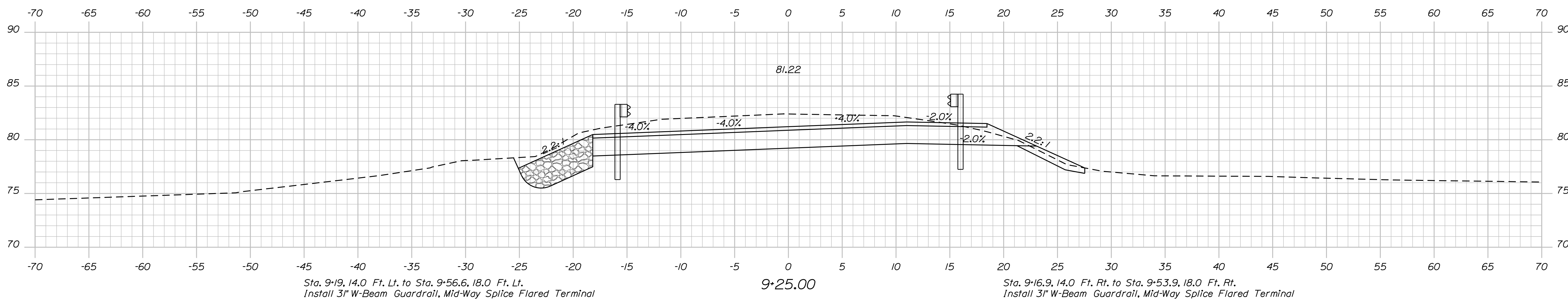
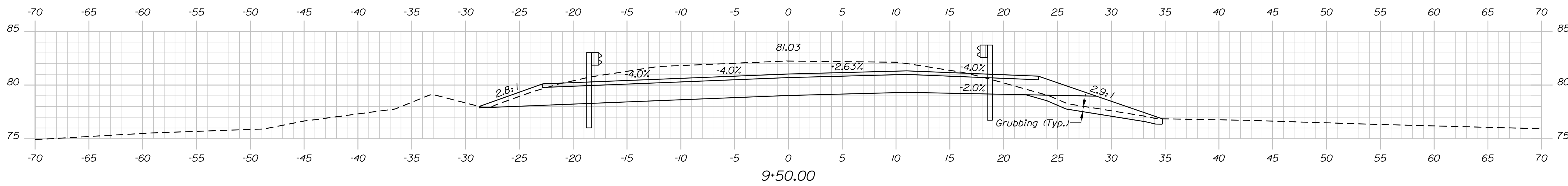
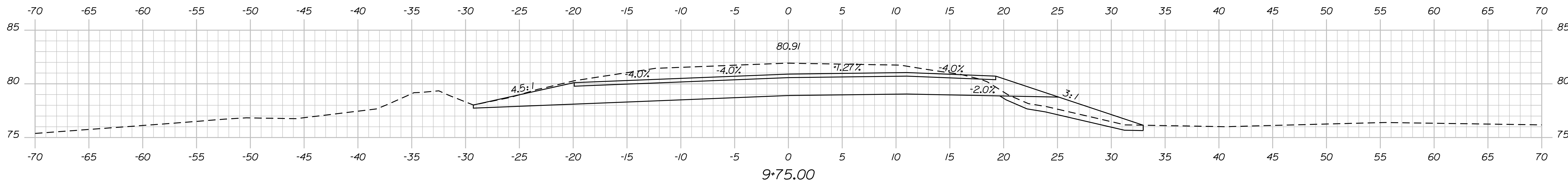
SHEET NUMBER
12
OF 26

Date: 1/15/2025

Username: Richard.Mayer

Division: BRIDGE

Filename: ... \MSTA013_XSECT_9+00-9+75.dgn

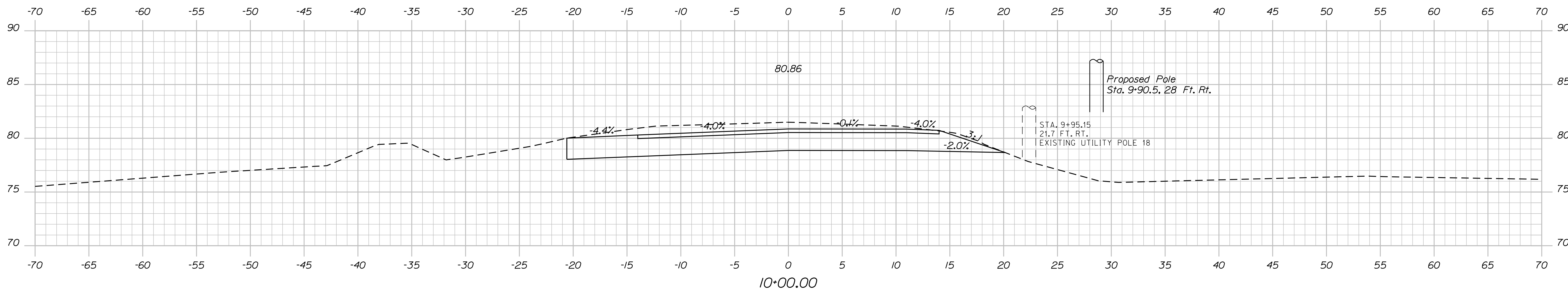
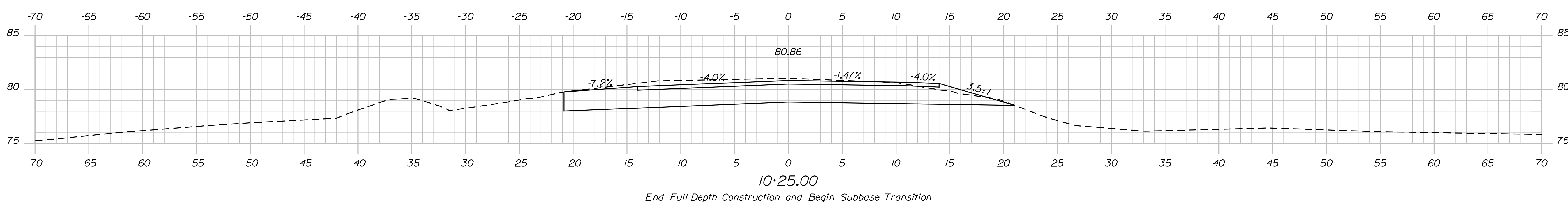
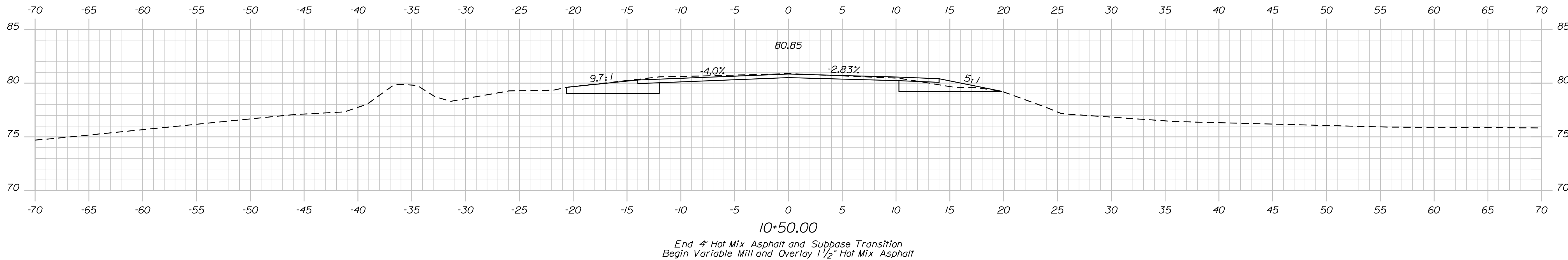
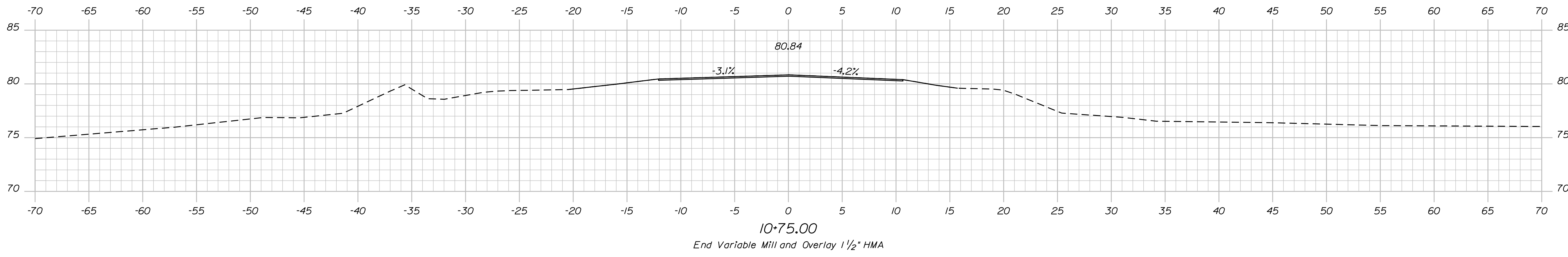


STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500	
				WIN 026105.00	
				BRIDGE NO. 3787	
				BRIDGE PLANS	
	DATE	BY	M. PARLIN	SIGNATURE	P.E. NUMBER
	OCT 2023	D. SHAW	B. BARTLETT		
	JUL 2024	T. WHITE	N. PIKAY		
ROUND POND BRIDGE		ROUND POND OUTLET		CROSS SECTIONS	
CHARLOTTE		WASHINGTON COUNTY		SHEET NUMBER	
13		OF 26		Sta. 9+00 to Sta. 9+75	

Date: 1/15/2025

Username: Richard.Mayer

Filename: ... \MSTAO14_XSECT_10+00-10+75.dgn Division: BRIDGE



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2610500
WIN 026105.00
BRIDGE NO. 3787 BRIDGE PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	BY	DATE
M. PARLIN	D. SHAW	OCT 2023
B. BARTLETT	T. WHITE	JUL 2024
N. PIKAY		

ROUND POND BRIDGE
ROUND POND OUTLET
WASHINGTON COUNTY
CHARLOTTE
CROSS SECTIONS

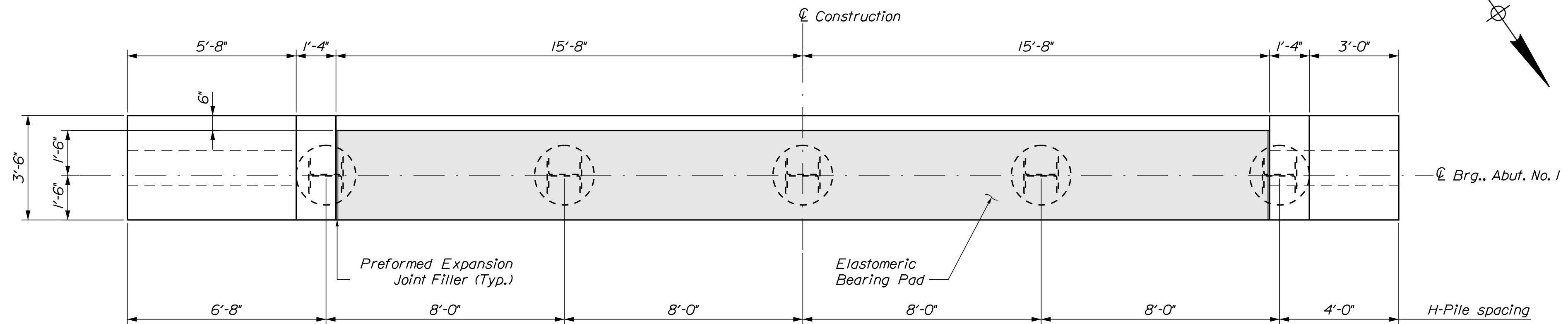
SHEET NUMBER
14
OF 26

Date: 1/15/2025

Username: Richard.Mayer

Division: BRIDGE

Filename: ... \MSTA\015_Abutment_No1.dgn



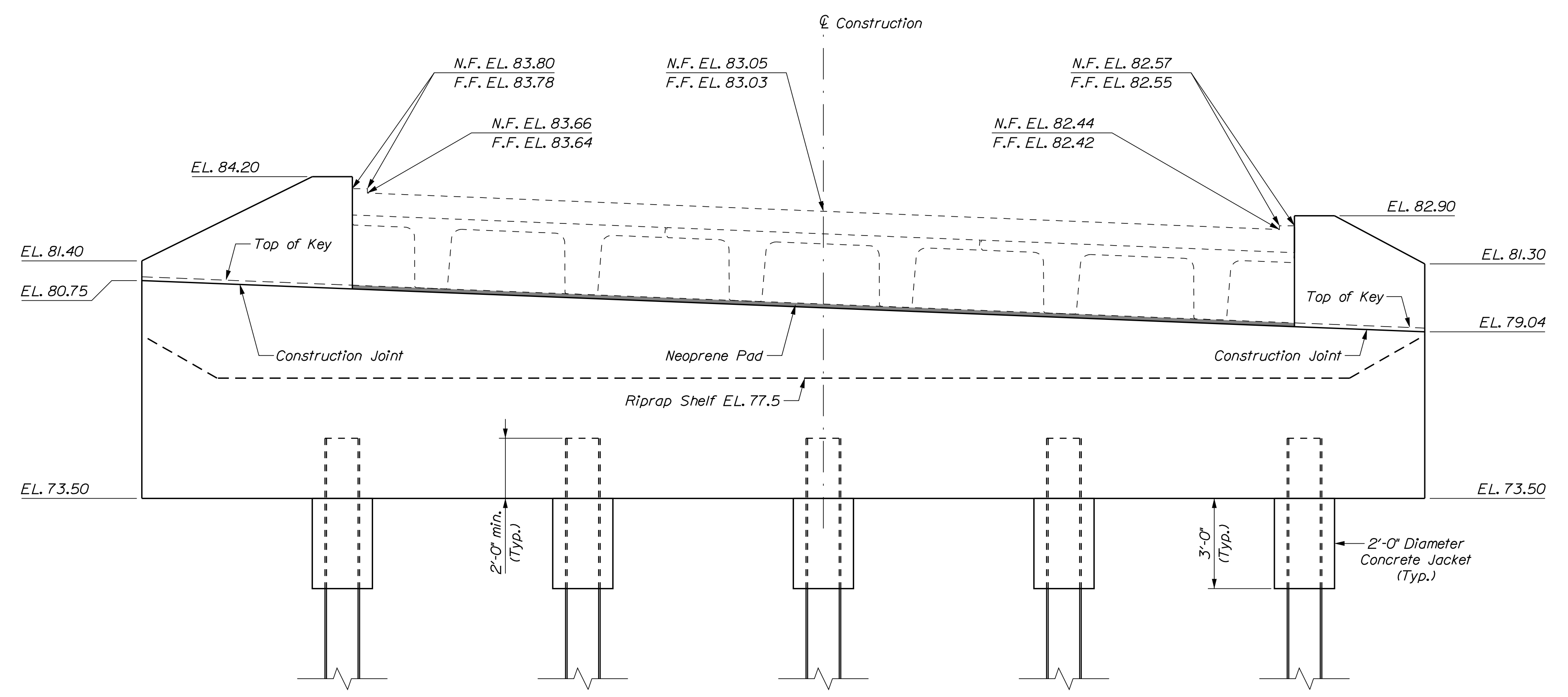
ABUTMENT NO. 1 PLAN

ABUTMENT NOTES

1. Abutments, wingwalls, and their footings shall be backfilled with Granular Borrow, meeting the requirements of Material for Underwater Backfill. Pay limits will be the structural excavation limits in cut areas and a vertical plane located 10 feet behind the walls in fill areas.
2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
3. Place drains with a 4-inch diameter in the breastwall and wingwalls at 10 feet maximum spacing. The exact location will be determined by the Resident.
4. Cover joints where waterstops are not required in accordance with Standard Details Section 502.
5. Payment for the concrete jackets around the tops of the H-piles will not be paid for directly but will be considered incidental to Pay Item 502.219 Structural Concrete Abutments and Retaining Walls. Fill Concrete may be used for the concrete jackets.
6. Place the parapet portions of the wingwalls after erection of the precast units.

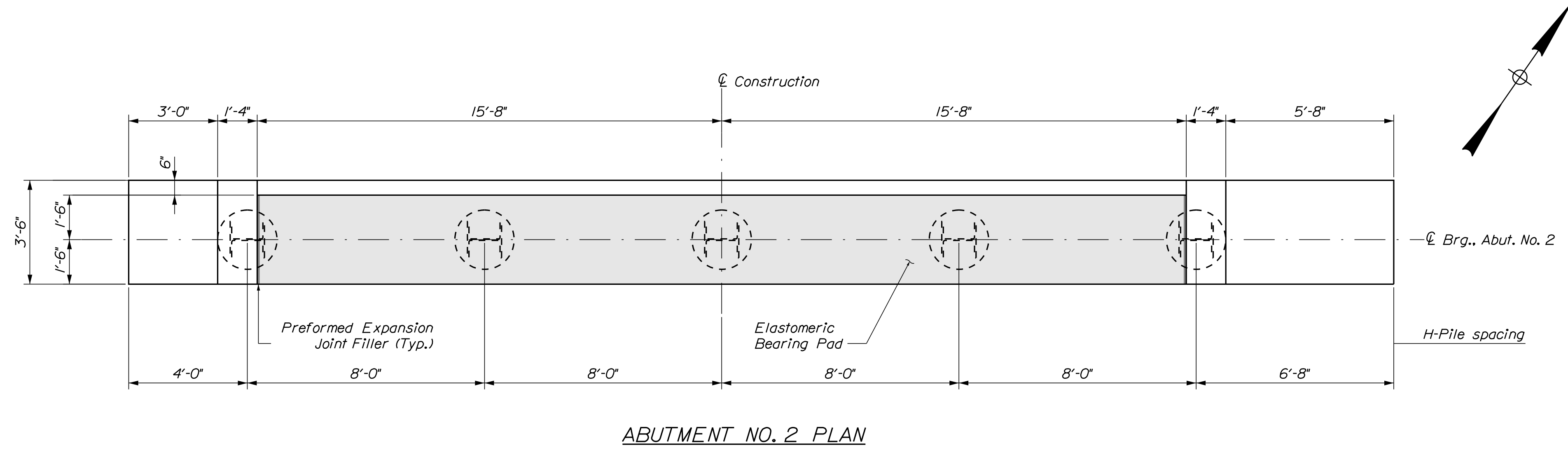
PILE NOTES

1. The maximum factored pile load is 260 kips at the Strength Limit State.
2. Piles shall be driven to the required nominal resistance on or within bedrock in accordance with Standard Specification Section 501.
3. Estimate of piles required (in-place):
 Abutment No. 1: 5 ~ HP 14x89 @ 85 feet
 Abutment No. 2: 5 ~ HP 14x89 @ 81 feet
 The order lengths of the piles shall include an additional 5 feet of length for each test pile to accommodate dynamic pile testing equipment and any additional pile length needed to accommodate leads, template and driving system.
4. H-pile material shall be ASTM A572, Grade 50.
5. H-pile splices shall be in accordance with Standard Detail 501(03).
6. All piles shall be equipped with a pile tip in accordance with Standard Specifications Subsections 501.048, Prefabricated Pile Tips and 711.10 H-Beam Piles, Spliced and Tips.
7. Piles shall not be out of position shown by more than 2 inches in any direction.
8. The Contractor shall perform and submit a wave equation analysis for review and acceptance by the Resident. The maximum allowable driving stress is 0.90 times Fy. The submittal analyses shall include the proposed stopping criteria based on the wave equation analysis and the proposed driving system.
9. The Contractor shall perform 2 dynamic load test(s) with 24-hour (minimum) restrike tests to confirm the nominal resistance of the piles. The required nominal resistance for the pile is the factored axial pile load divided by a resistance factor of 0.65 per LRFD Specifications. The dynamic test shall be performed on the first production pile driven at each abutment.

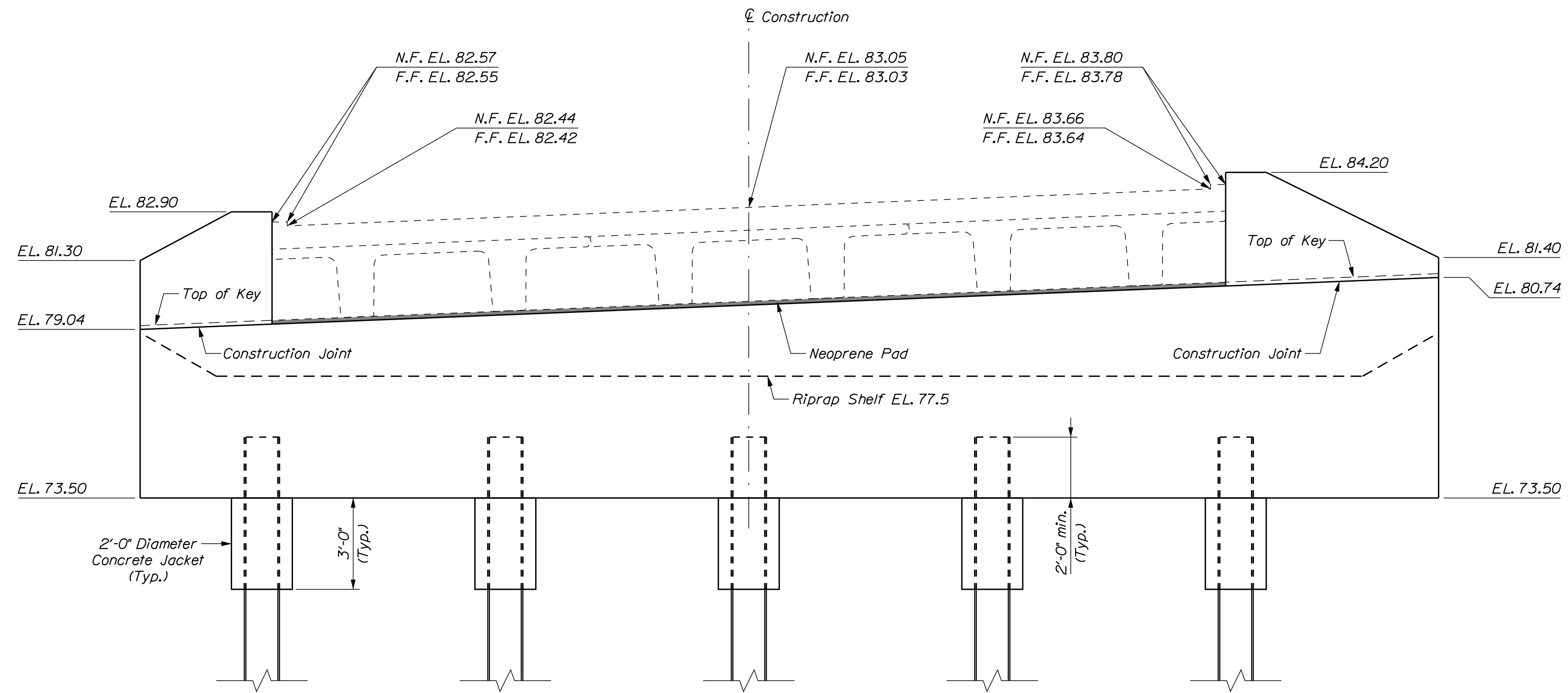


ABUTMENT NO. 1 ELEVATION

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500		WIN		026105.00		BRIDGE NO. 3787		BRIDGE PLANS	
ROUND POND BRIDGE		ROUND POND OUTLET		WASHINGTON COUNTY		ABUTMENT NO. 1		SHEET NUMBER		15		OF 26	
PROJ. MANAGER	M. PARLIN	CHECKED	B. BARTLETT	DESIGNED	N. PIKAY	DATE	OCT 2023	SIGNATURE		P.E. NUMBER		DATE	
DESIGNED	D. SHAW	REVIEWED	T. WHITE	DATE	JUL 2024	REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
FIELD CHANGES													



ABUTMENT NO. 2 PLAN



ABUTMENT NO. 2 ELEVATION

DESIGNED	BY	DATE
CHECKED	BY	DATE
DESIGNED	BY	DATE
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

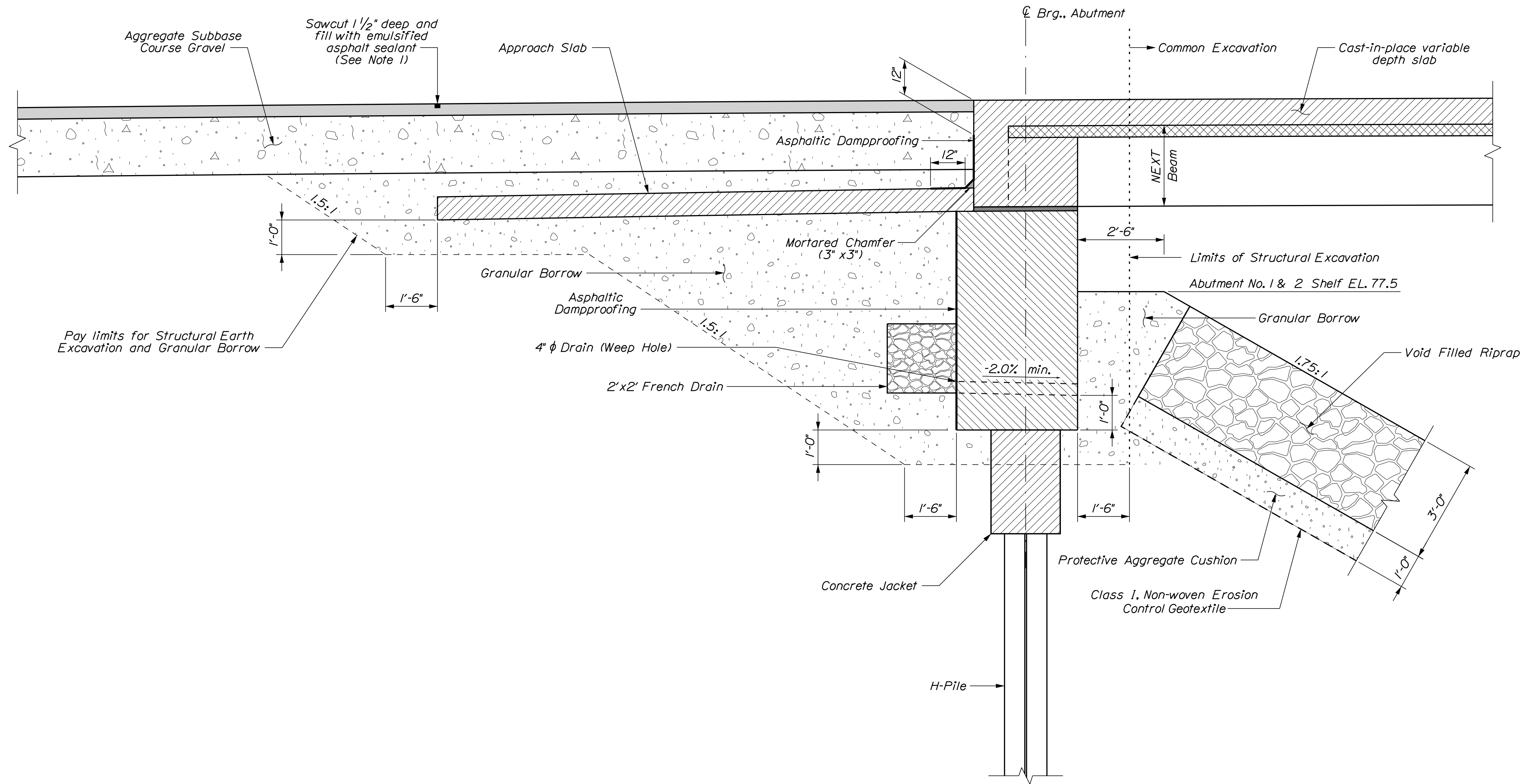
PROJ. MANAGER	M. PARLIN
CHECKED	B. BARTLETT
DESIGNED	N. PIKAY
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

ROUND POND BRIDGE
ROUND POND OUTLET
WASHINGTON COUNTY
CHARLOTTE
ABUTMENT NO. 2

SHEET NUMBER

16

OF 26



ABUTMENT BACKFILL DETAIL
 Abutment No. 1 shown, Abutment No. 2 similar.

NOTES:

1. Transverse sawcuts in the pavement at the ends of approach slabs shall be sealed with emulsified asphalt sealing compound conforming to Specification 702.12. The sawcut and emulsified asphalt sealing shall not be paid for directly, but considered incidental to related Contract Items.
2. Payment for mortared chamfer at approach slabs shall not be paid for directly, but shall be considered incidental to related Contract Items.
3. Asphalt Dampproofing shall meet the requirements of either ASTM D449 Type II, ASTM D1227 Type II-Class 1, or ASTM D1227 Type III-Class 1. The product shall be applied in accordance with the manufacturer's recommendations.
4. Asphalt Dampproofing shall be applied to the backside of the wingwalls up to 1 foot below grade, in addition to the locations shown in the Abutment Backfill Detail.
5. Payment for Asphalt Dampproofing will not be made directly, but will be considered incidental to related Contract Items.

STATE OF MAINE	BRIDGE NO. 3787	BRIDGE PLANS
DEPARTMENT OF TRANSPORTATION	WIN	026105.00
	2610500	

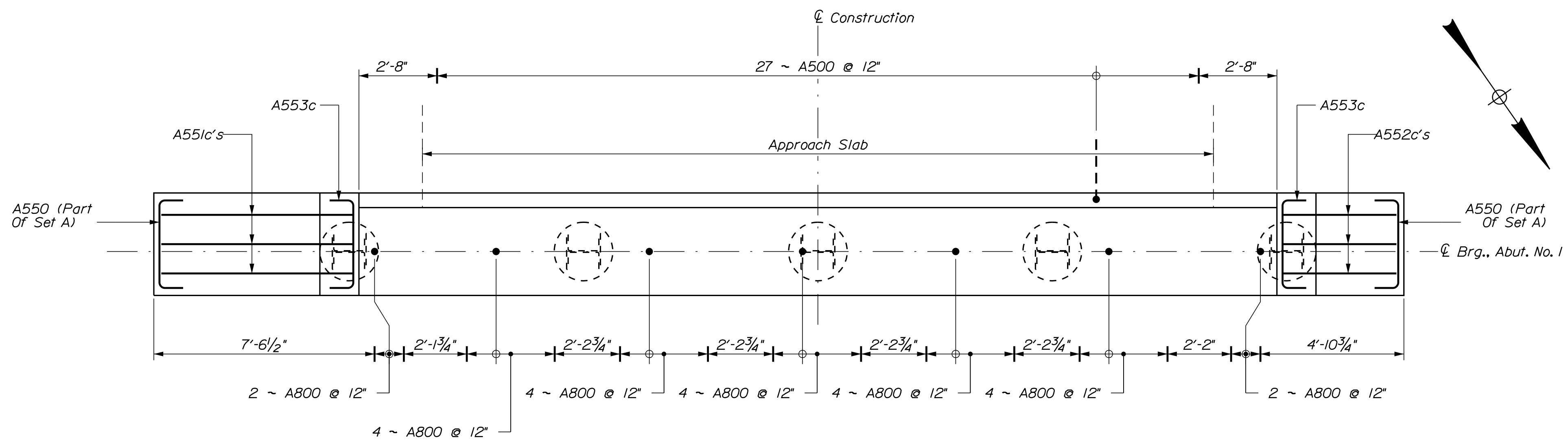
PROJ. MANAGER	M. PARLIN	BY	D. SHAW	DATE	OCT 2023
DESIGN-DETAILED	B. BARTLETT	CHECKED-REVIEWED	N. PIKAY	SIGNATURE	
DESIGN-DETAILED	N. PIKAY	DESIGN-DETAILED	T. WHITE	P.E. NUMBER	
DESIGN-DETAILED		DESIGN-DETAILED		DATE	

REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

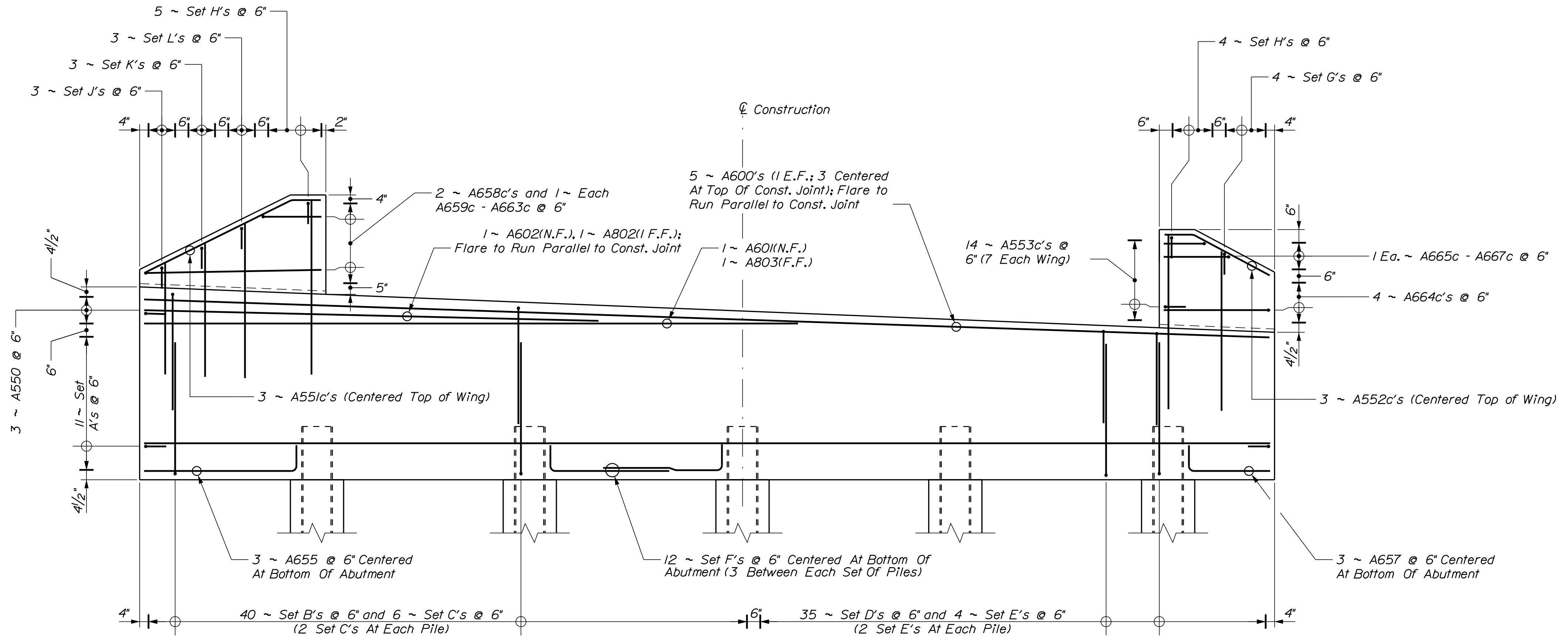
ROUND POND BRIDGE
 ROUND POND OUTLET
 CHARLOTTE WASHINGTON COUNTY
ABUTMENT DETAILS

SHEET NUMBER
17
 OF 26

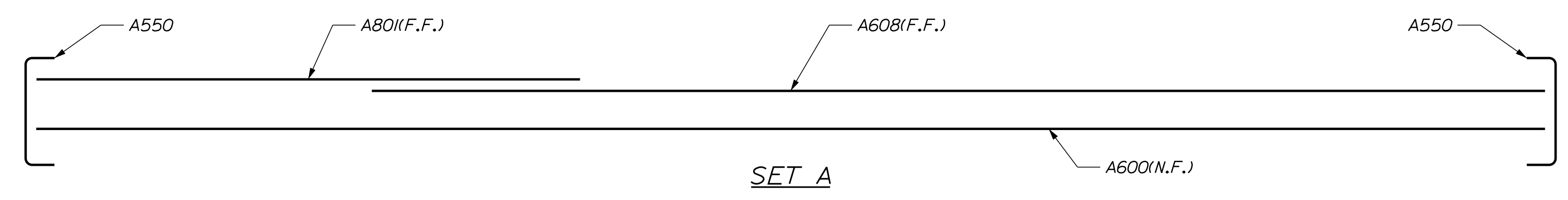
Filename: ... \018_Abutment_No1_Rebar.dgn Division: BRIDGE Username: Richard.Mayer Date: 1/15/2025



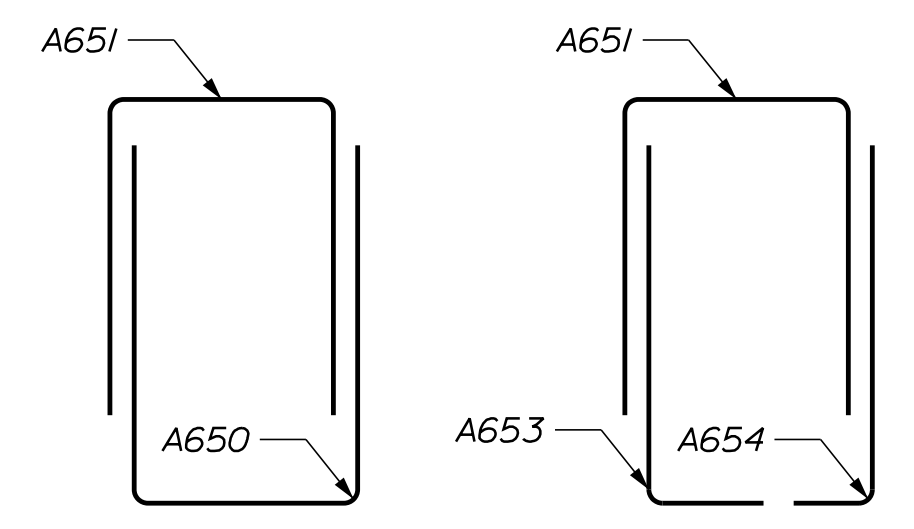
PLAN ~ ABUTMENT NO. 1 REINFORCEMENT



ELEVATION ~ ABUTMENT NO. 1 REINFORCEMENT

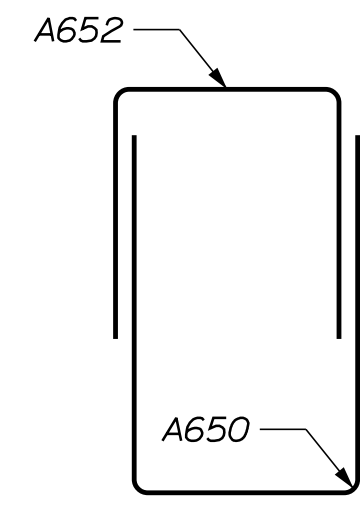


SET A

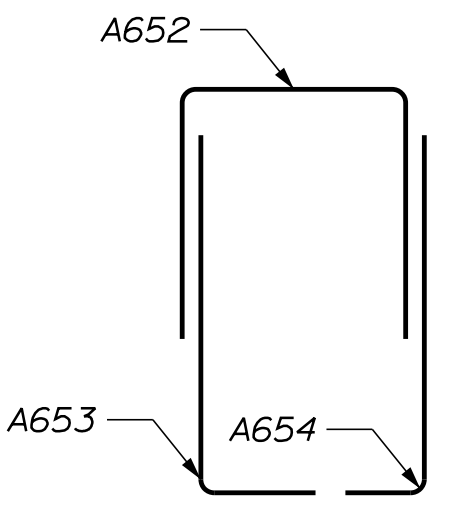


SET B

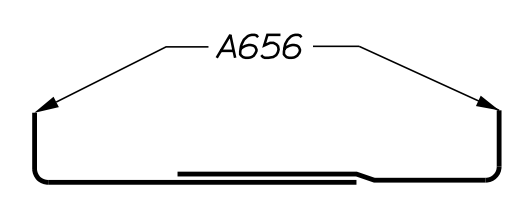
SET C



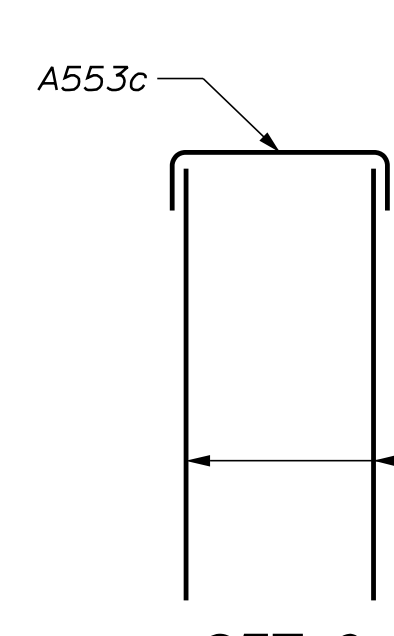
SET D



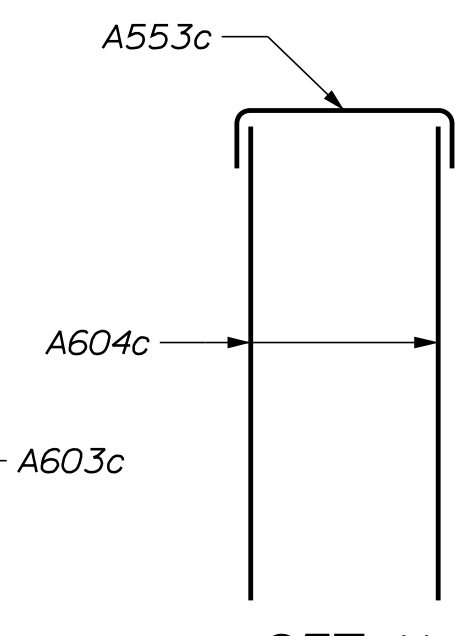
SET E



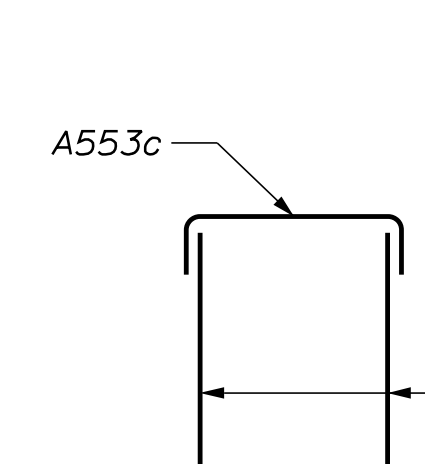
SET F



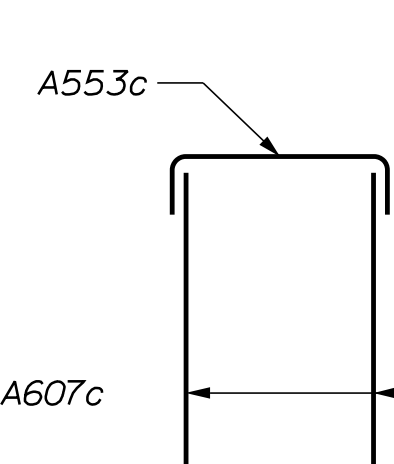
SET G



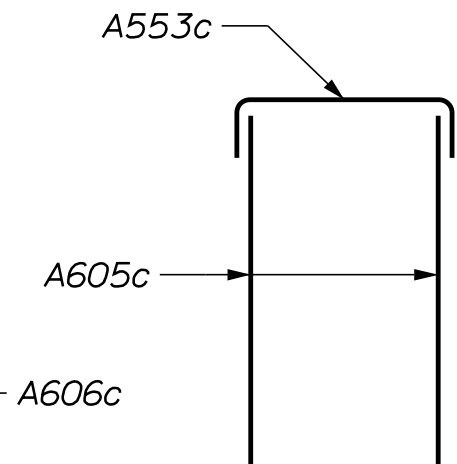
SET H



SET J



SET K



SET L

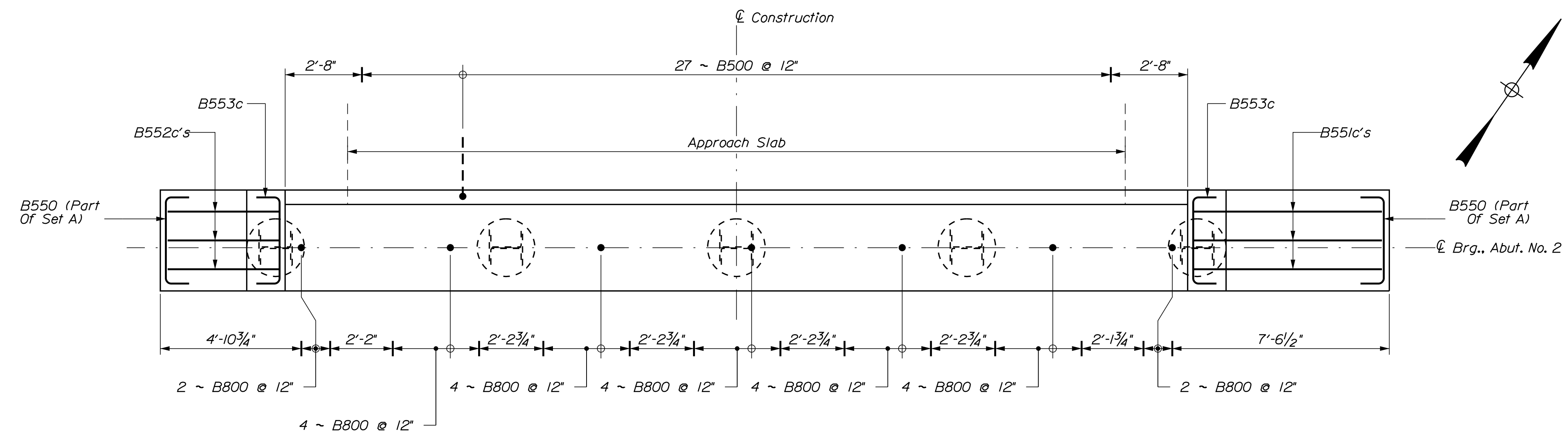
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500	
ROUND POND BRIDGE		WASHINGTON COUNTY		BRIDGE NO. 3787	
ROUND POND OUTLET		ABUTMENT NO. 1 REINFORCEMENT		WIN 026105.00	
CHARLOTTE		SHEET NUMBER		BRIDGE PLANS	
PROJ. MANAGER	M. PARLIN	BY	D. SHAW	DATE	OCT 2023
DESIGN-DETAILED	B. BARTLETT	CHECKED-REVIEWED	T. WHITE	SIGNATURE	
DESIGN-DETAILED	N. PIKAY	DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 1		DATE	
REVISIONS 2		REVISIONS 2			
REVISIONS 3		REVISIONS 3			
REVISIONS 4		REVISIONS 4			
FIELD CHANGES					
18					
OF 26					

Username: Richard.Mayer

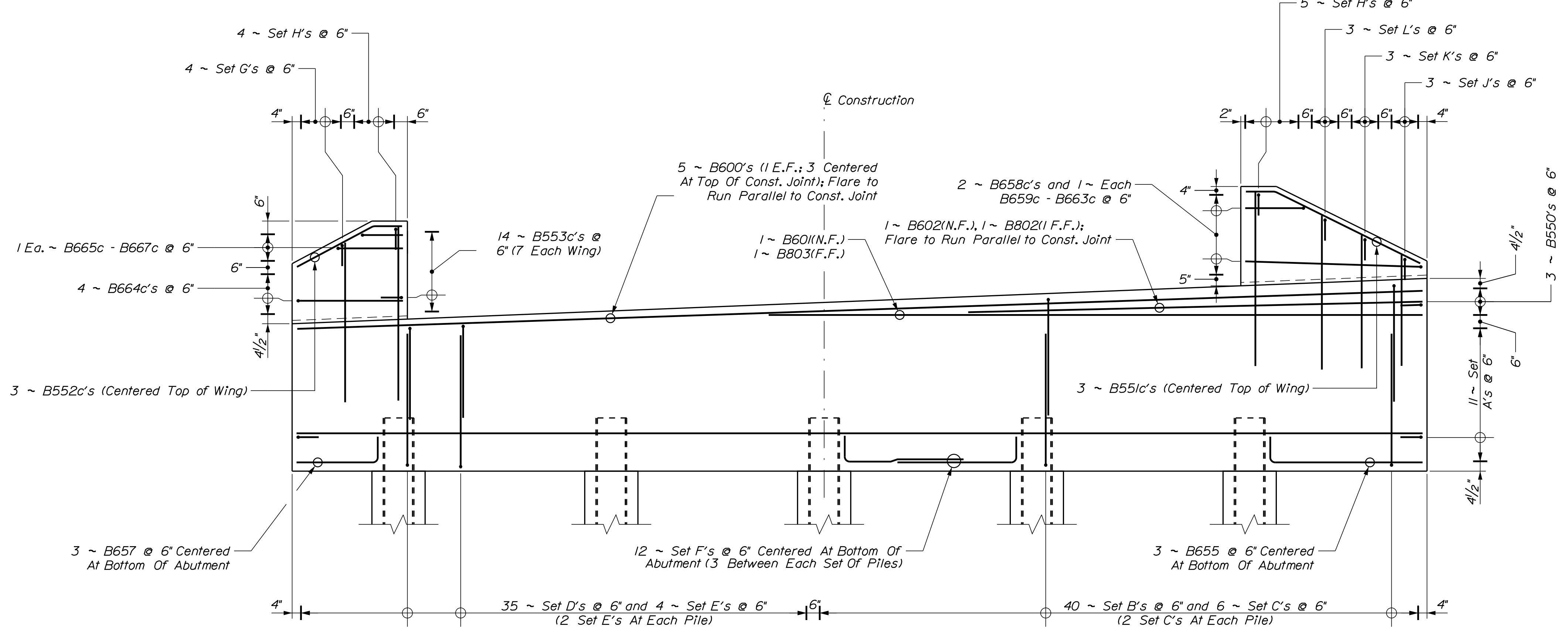
Date: 1/15/2025

Division: BRIDGE

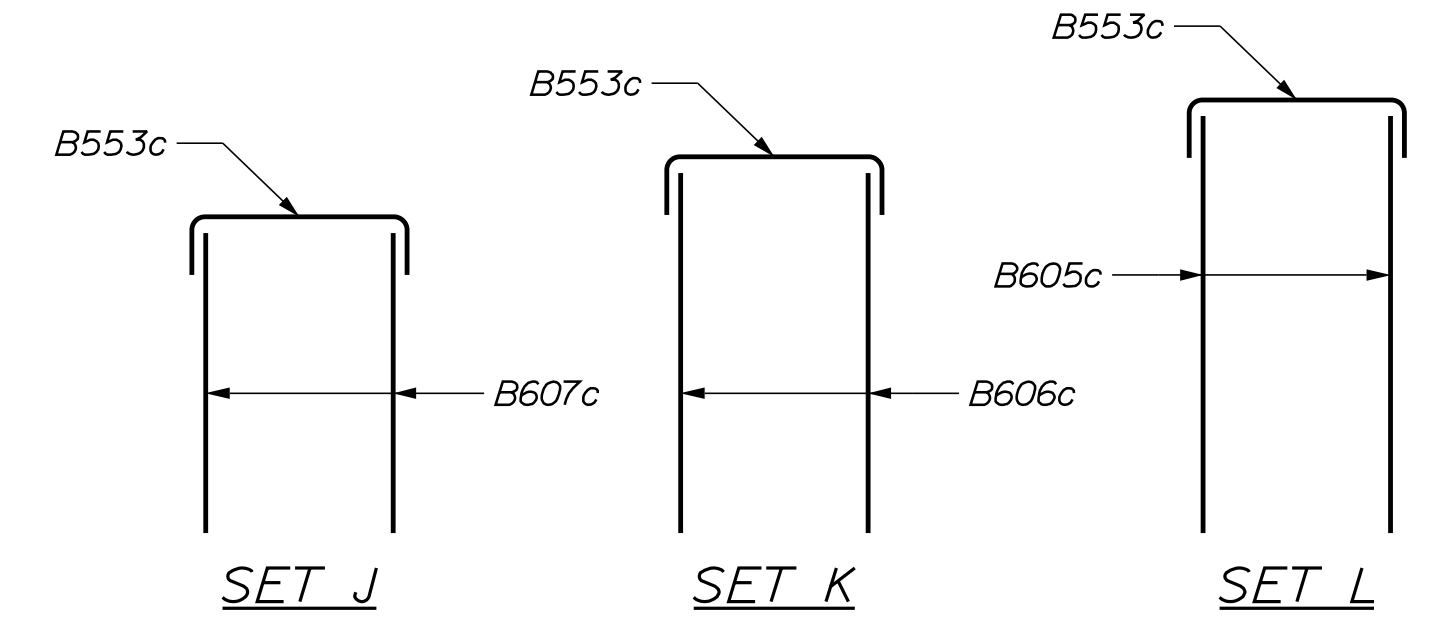
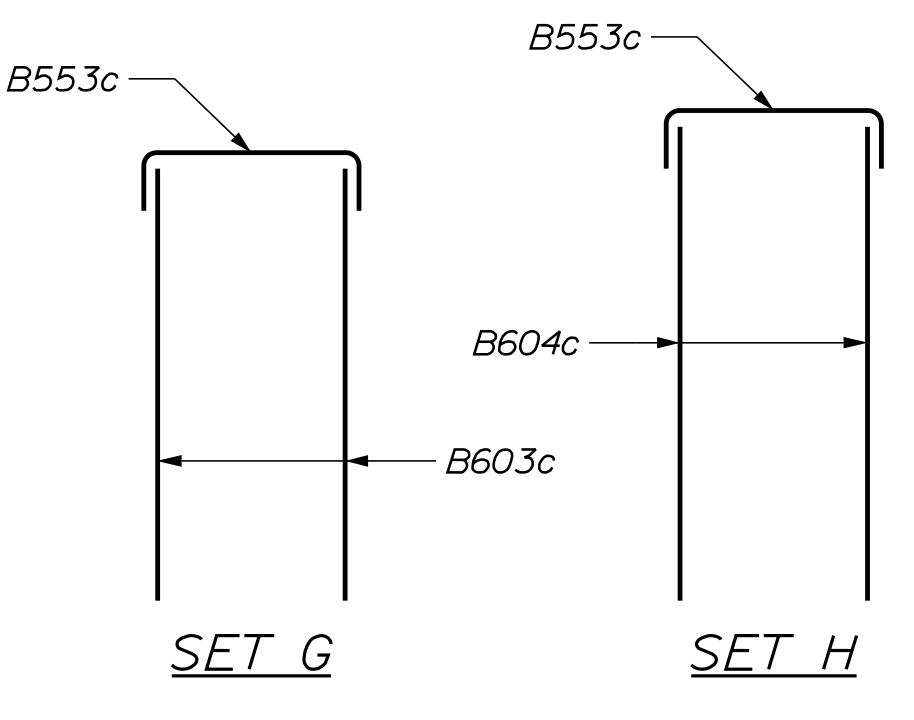
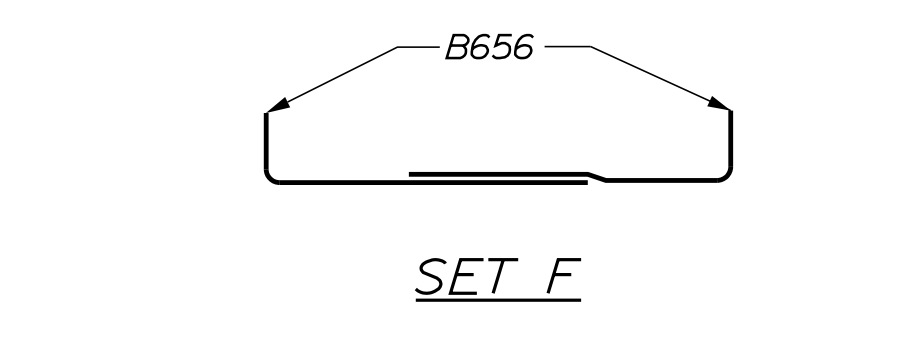
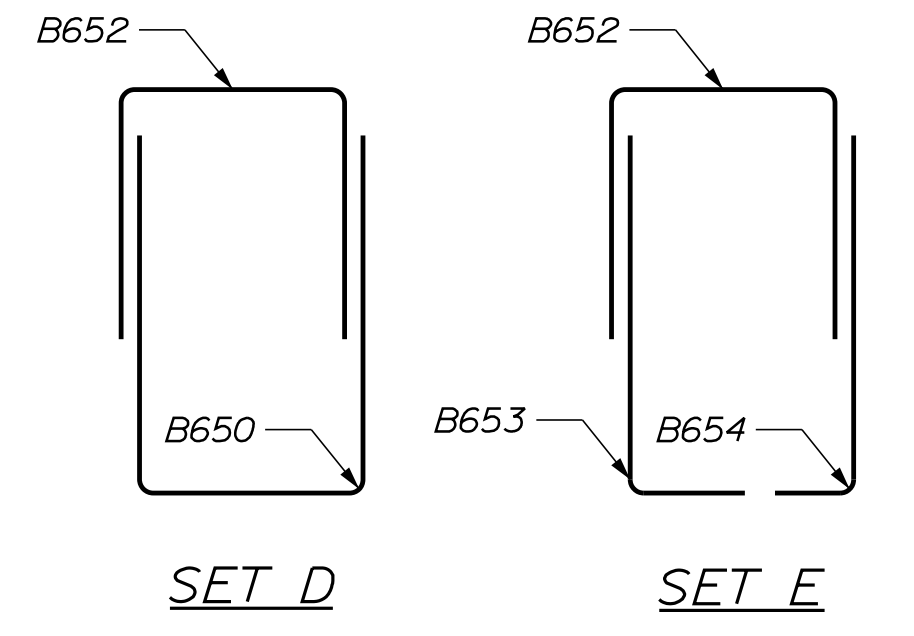
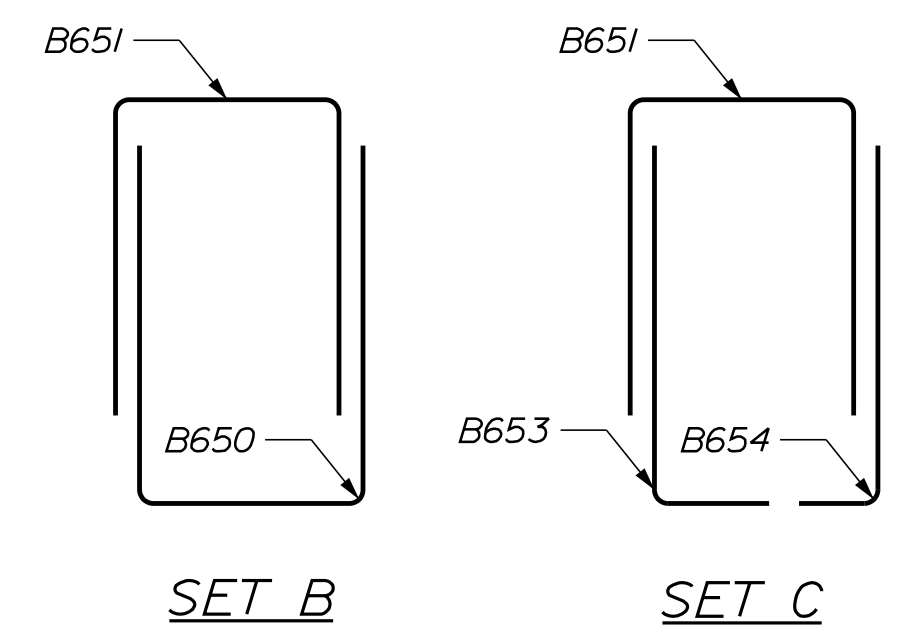
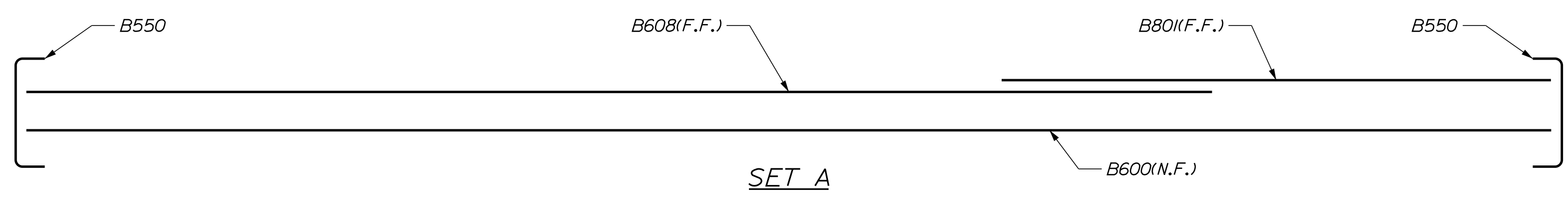
Filename: ... \019_Abutment_No2_Rebar.dgn



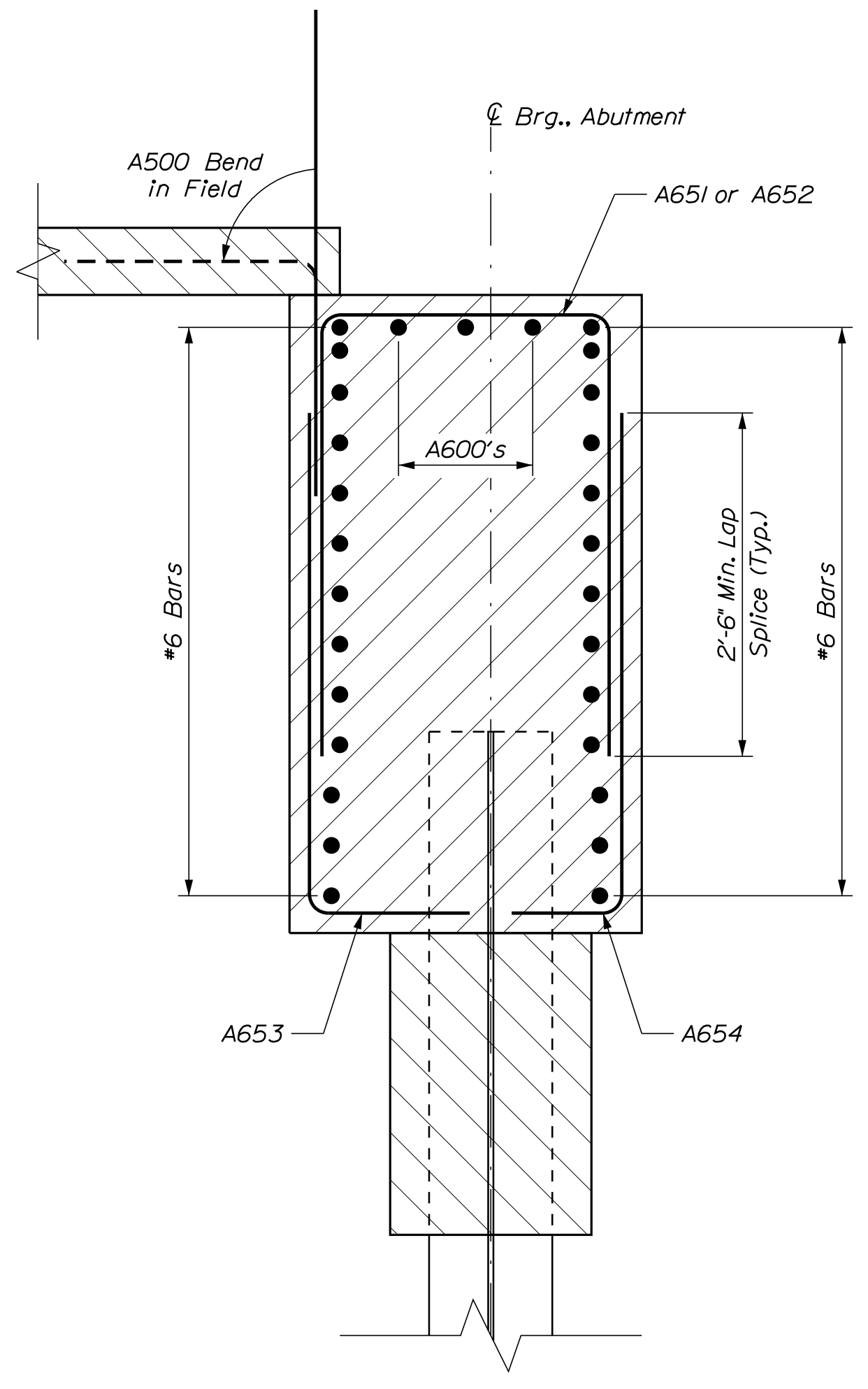
PLAN ~ ABUTMENT NO. 2 REINFORCEMENT



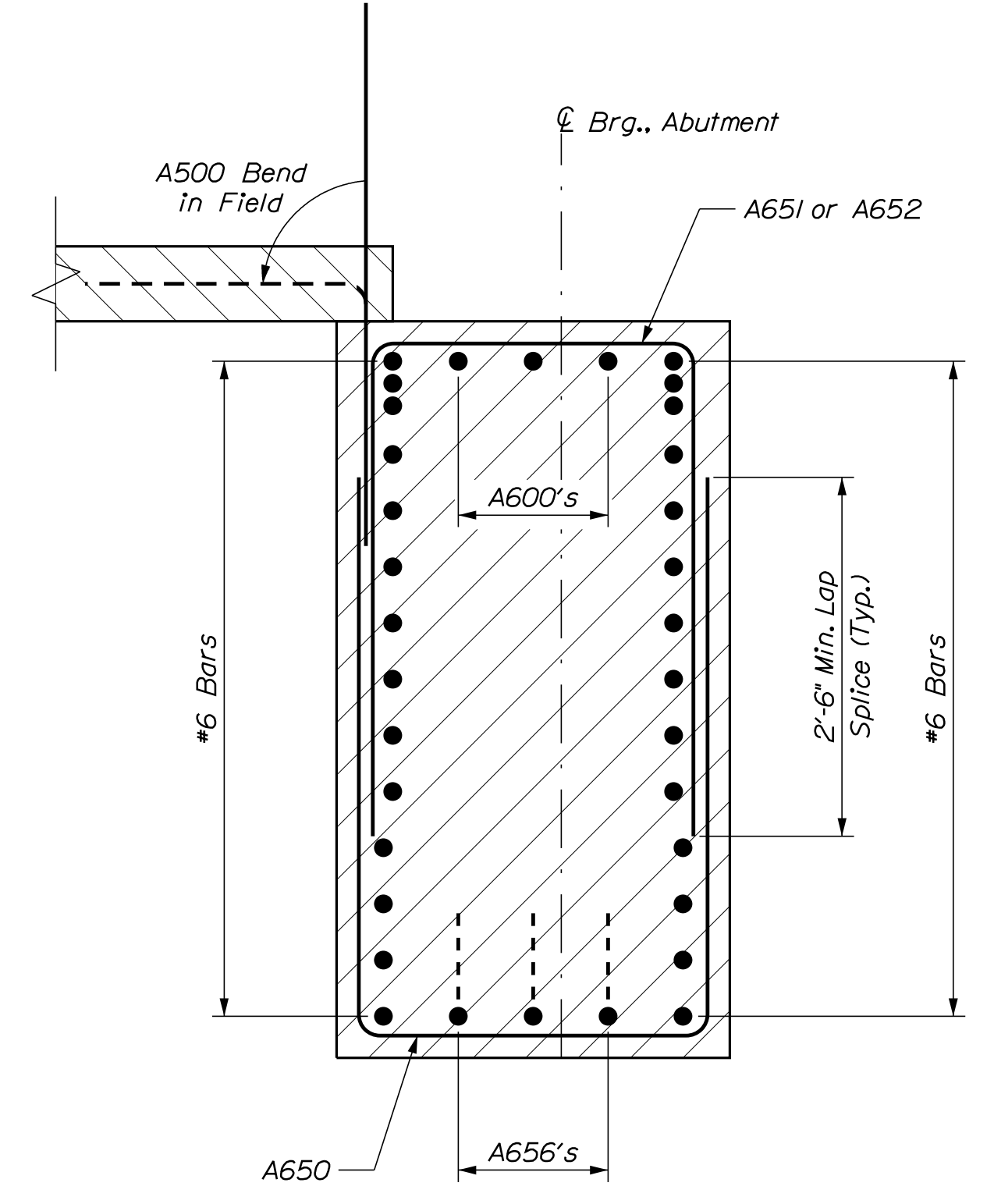
ELEVATION ~ ABUTMENT NO. 2 REINFORCEMENT



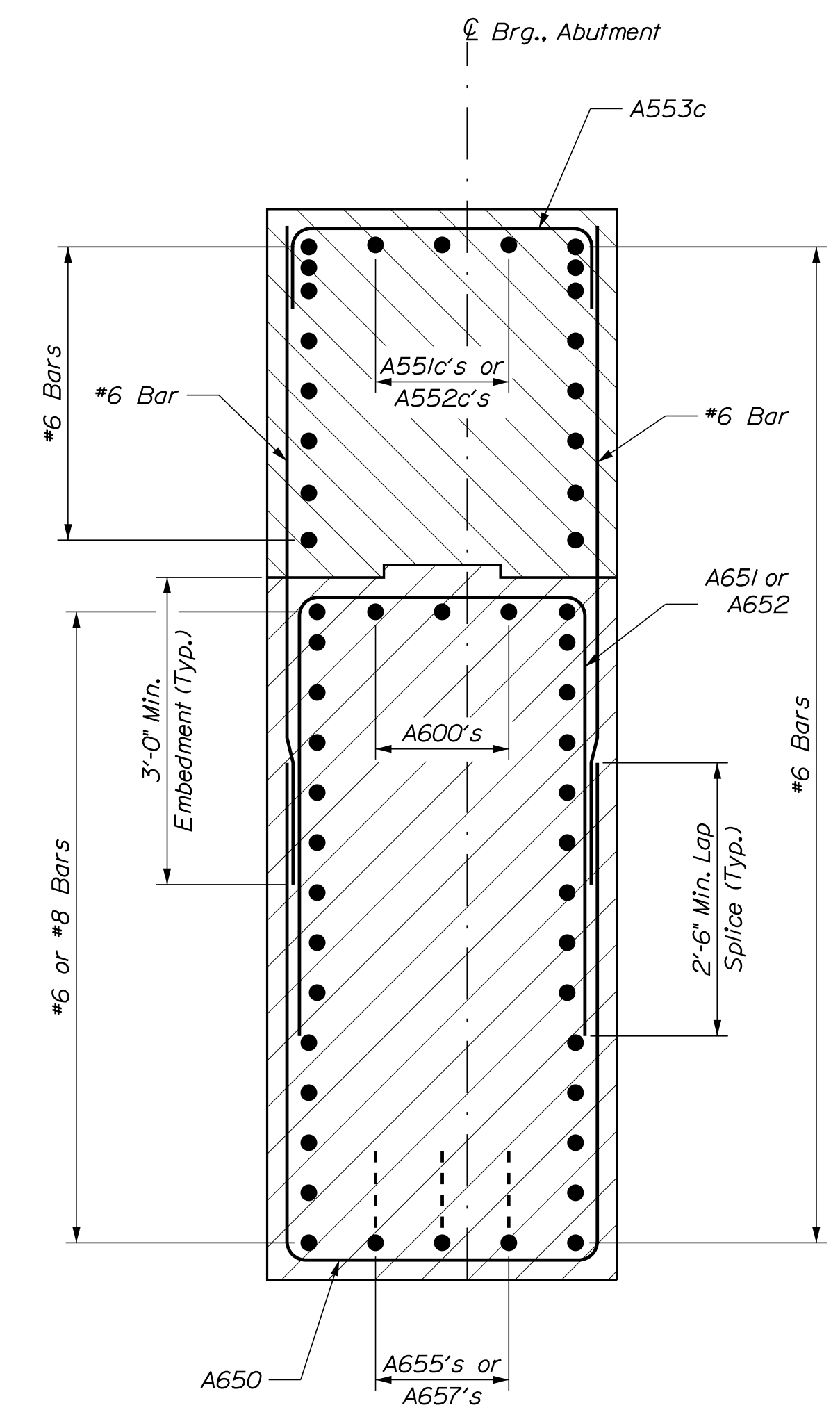
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500		WIN		026105.00		BRIDGE NO. 3787		BRIDGE PLANS	
ROUND POND BRIDGE		ROUND POND OUTLET		WASHINGTON COUNTY		CHARLOTTE		ABUTMENT NO. 2 REINFORCEMENT		SHEET NUMBER		19	
PROJ. MANAGER	M. PARLIN	CHECKED	B. BARTLETT	DATE	OCT 2023	DESIGNED	D. SHAW	SIGNATURE		P.E. NUMBER		DATE	
DESIGNED	T. WHITE	DATE	JUL 2024	REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		FIELD CHANGES	
<p>OF 26</p>													



SECTION AT PILE
 Abutment No. 1 Rebar shown,
 Abutment No. 2 Rebar similar



SECTION BETWEEN PILES
 Abutment No. 1 Rebar shown,
 Abutment No. 2 Rebar similar



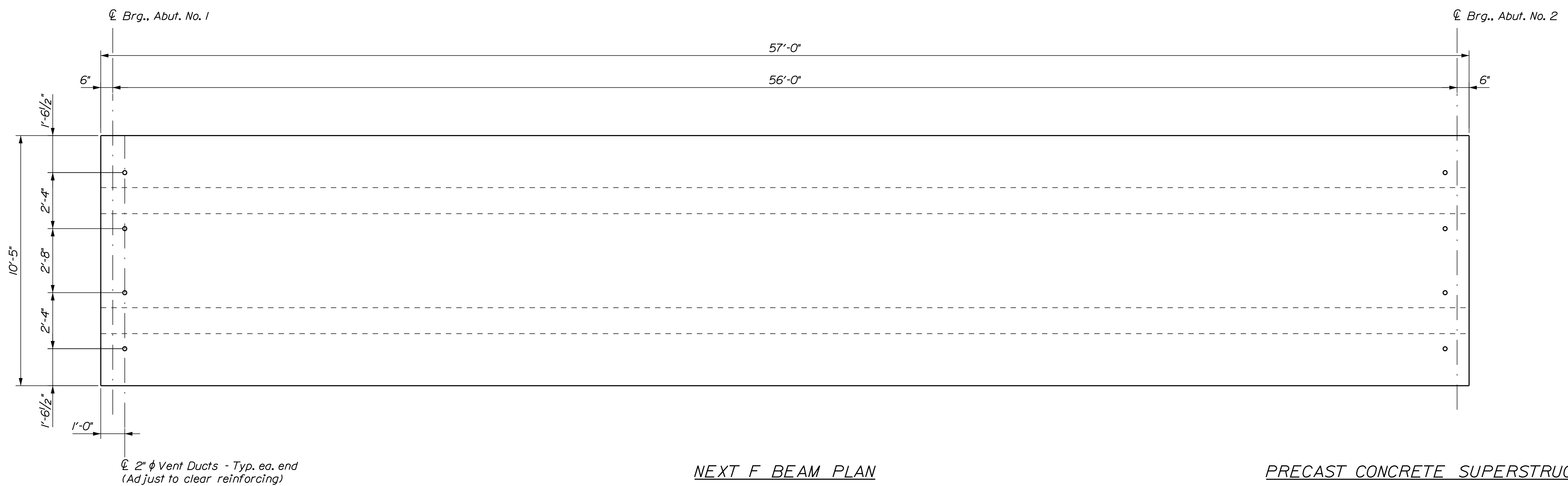
WINGWALL SECTION
 Abutment No. 1 Rebar shown,
 Abutment No. 2 Rebar similar

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2610500	
ROUND POND BRIDGE ROUND POND OUTLET CHARLOTTE WASHINGTON COUNTY		WIN 026105.00	
ABUTMENT SECTIONS		BRIDGE NO. 3787 BRIDGE PLANS	
PROJ. MANAGER	M. PARLIN	BY	DATE
DESIGN-DETAILED	B. BARTLETT	D. SHAW	OCT. 2023
CHECKED-REVIEWED	N. PIKAY	T. WHITE	JUL. 2024
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES		DATE	
SHEET NUMBER		P.E. NUMBER	
20			
OF 26			

Date: 1/15/2025

Username: Richard.Mayer

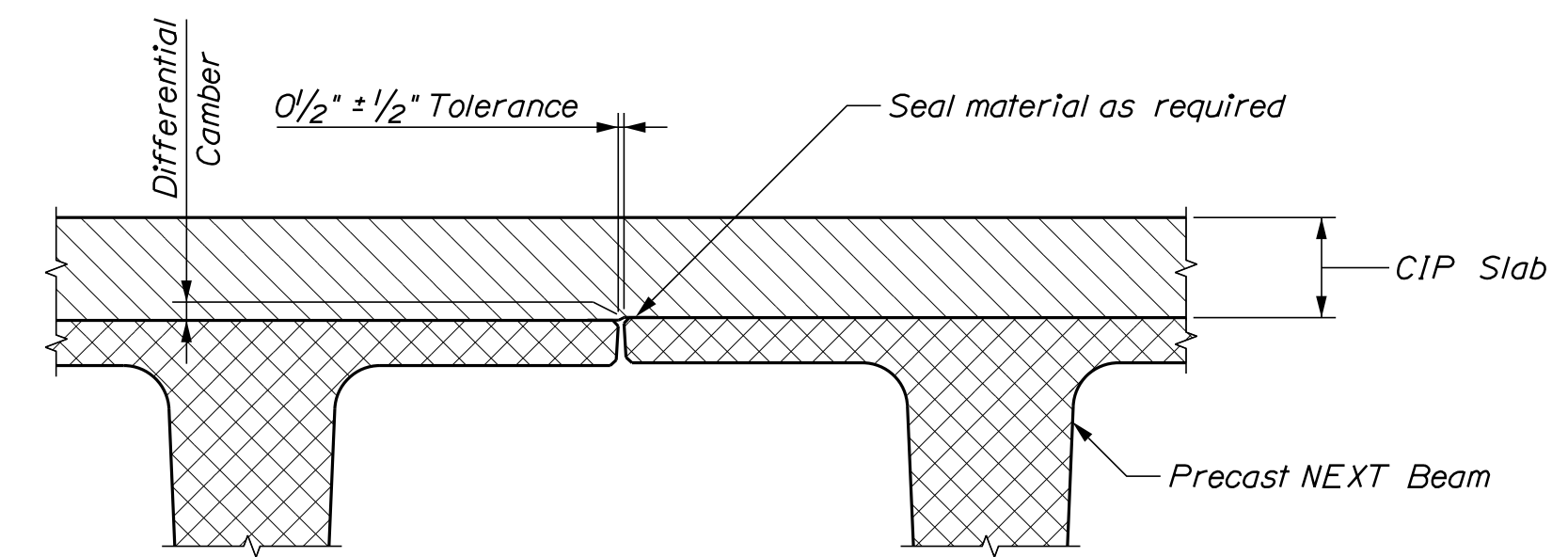
Filename: ... \MSTA\021_Precast_NEXT_Beam.dgn Division: BRIDGE



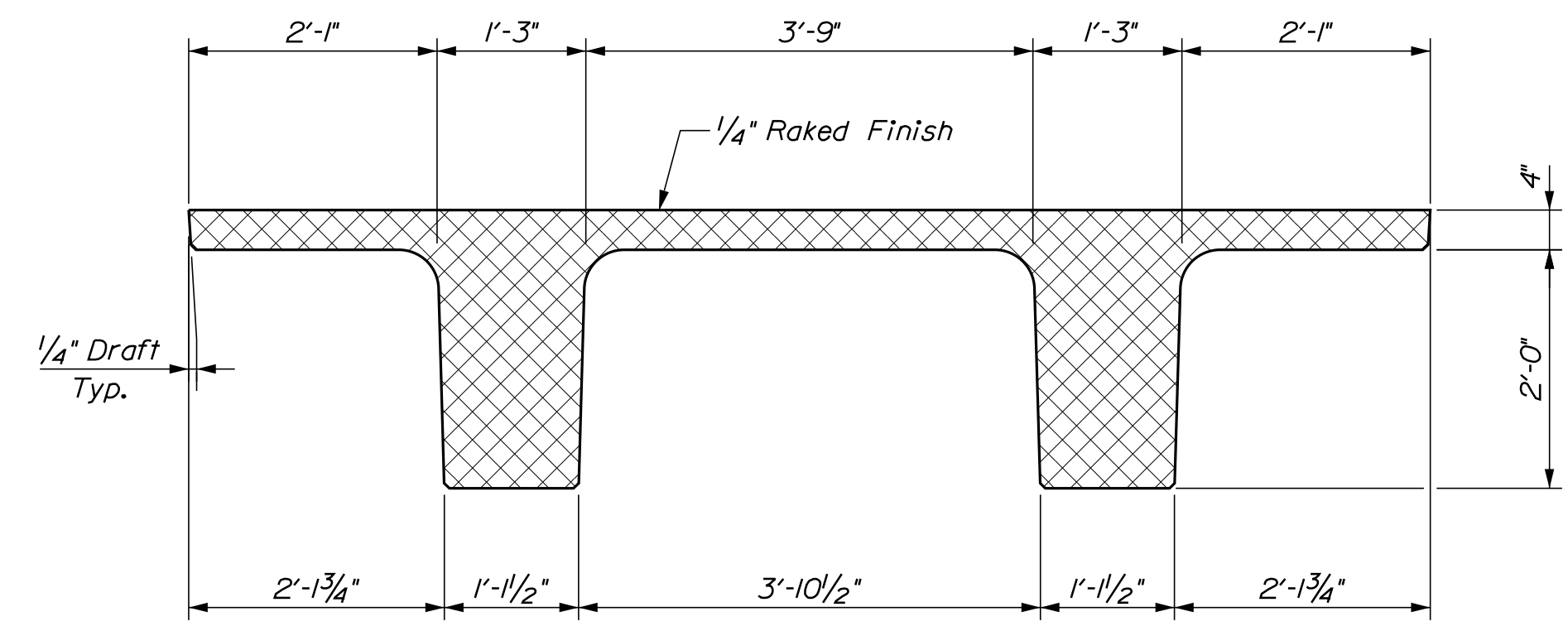
NEXT F BEAM PLAN

PRECAST CONCRETE SUPERSTRUCTURE NOTES

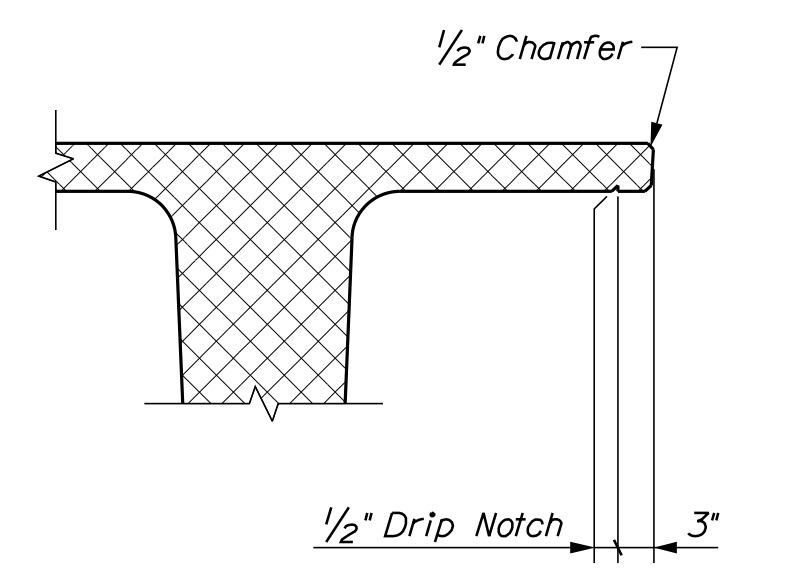
1. NEXT F Beams are a non - proprietary shape developed by PCI NORTHEAST (PCINE). Standardized section properties and details may be found at <http://www.pcine.org>.
2. The estimated camber at release is 1/2 inches and the estimated camber at erection is 2 3/8 inches. Refer to Special Provision Section 535, Precast, Prestressed Concrete Superstructure - Camber.
3. Prestressing strands shall be 0.6 inch diameter. The tensioning force is 44 kips per prestressing strand, including the top strands.
4. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
5. Do not drill or use powder actuated tools on the prestressed beams without the approval of the Fabrication Engineer.
6. The top surface of the upper flange of the prestressed beams shall be raked to a surface roughness of 1/4 inch, except at 10-ft. increments along the centerline of each beam. At these locations a flattened area of sufficient size shall be left to facilitate taking elevations for setting bottom of slab elevations.
7. Lifting loops and temporary/storage/shipping dunnage shall be a maximum of 2 feet from each beam end.
8. A maximum of 50 percent of the strands in the bottom 5 rows may be debonded 6 inches from the end of the beam. All 4 top row strands shall be fully bonded.
9. Payment for Sheet Waterproofing Membrane over joints between adjacent NEXT Beams will not be made directly, but will be considered incidental to related Contract Items. Alternate methods of sealing the gap between flanges may be submitted to the Resident for approval.



NEXT BEAM GAP FORM DETAIL



NEXT 28 F BEAM SECTION



FASCIA OVERHANG DETAIL

ELASTOMERIC BEARING PAD NOTES

1. Elastomeric Bearing Pads shall be 1\"/>

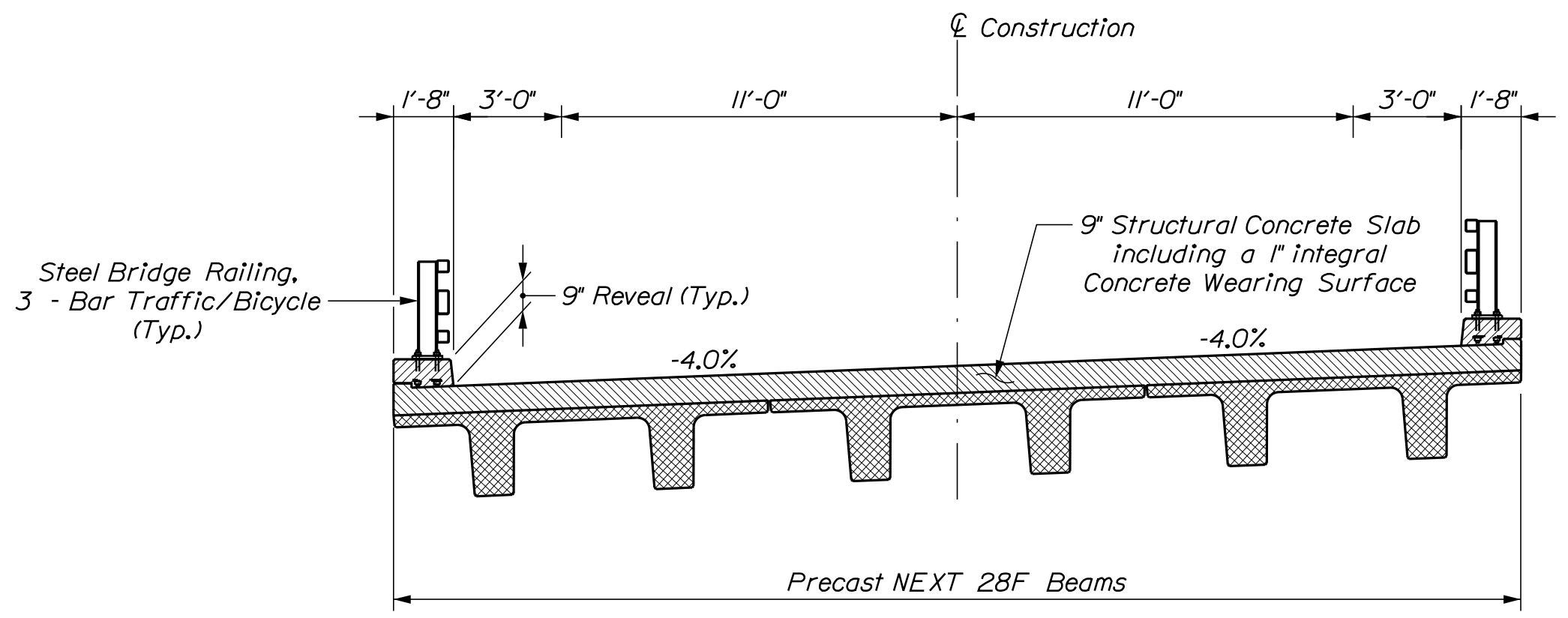
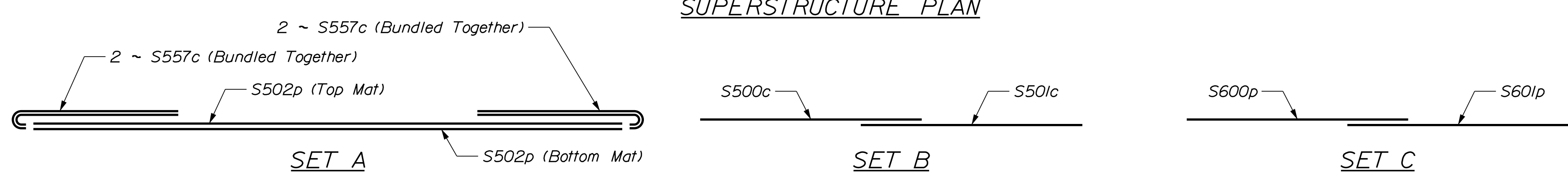
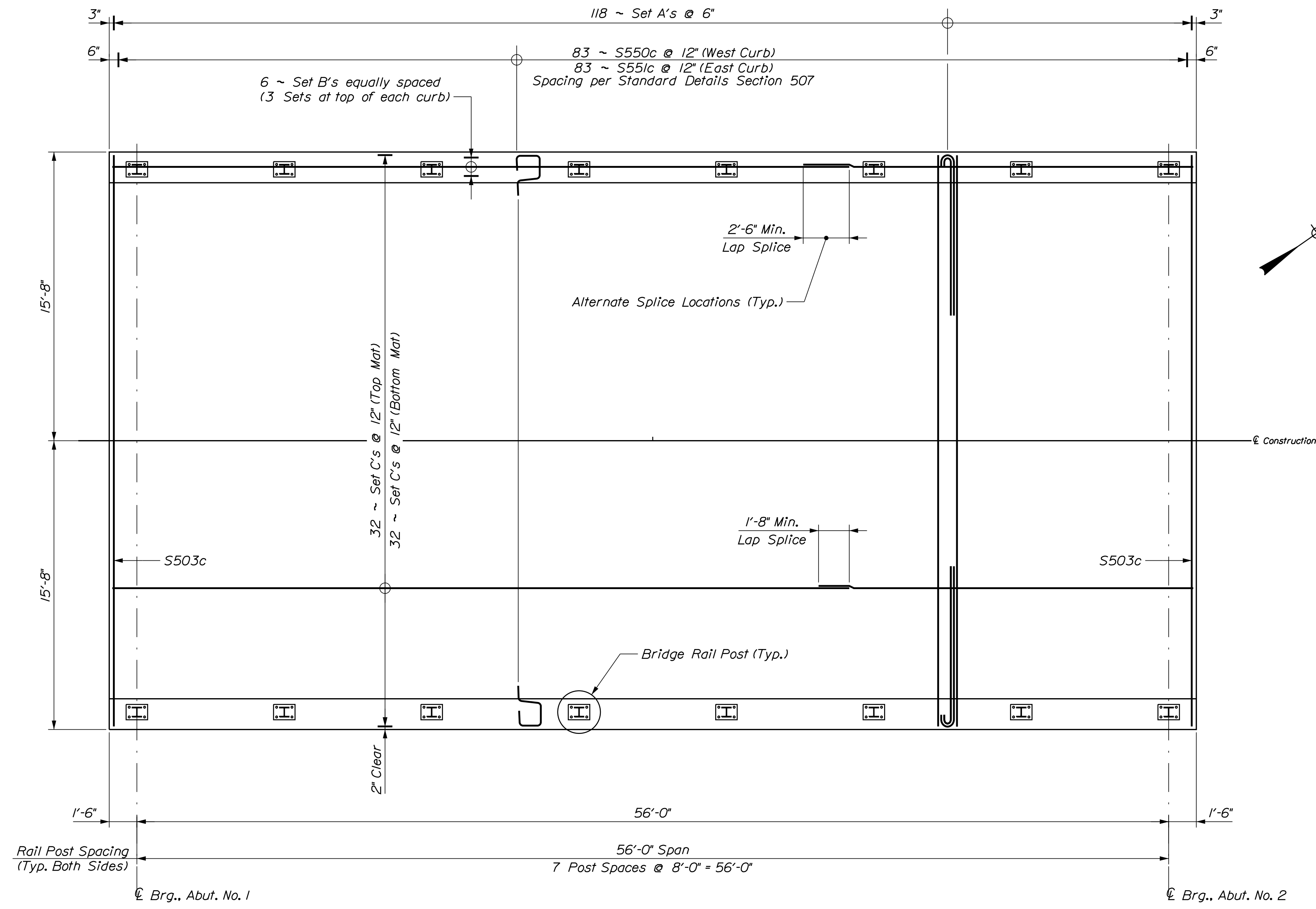
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500		WIN		026105.00		BRIDGE NO. 3787		BRIDGE PLANS	
ROUND POND BRIDGE		ROUND POND OUTLET		WASHINGTON COUNTY		CHARLOTTE		PRECAST NEXT BEAM		SHEET NUMBER		21	
PROJ. MANAGER		M. PARLIN		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		B. BARTLETT		D. SHAW		OCT 2023		SIGNATURE		P.E. NUMBER		DATE	
CHECKED-REVIEWED		N. PIKAY		T. WHITE		JUL 2024		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		FIELD CHANGES		DATE	

Date: 1/15/2025

Username: Richard.Mayer

Division: BRIDGE

Filename: ... \MSTA\023_Superstructure.dgn



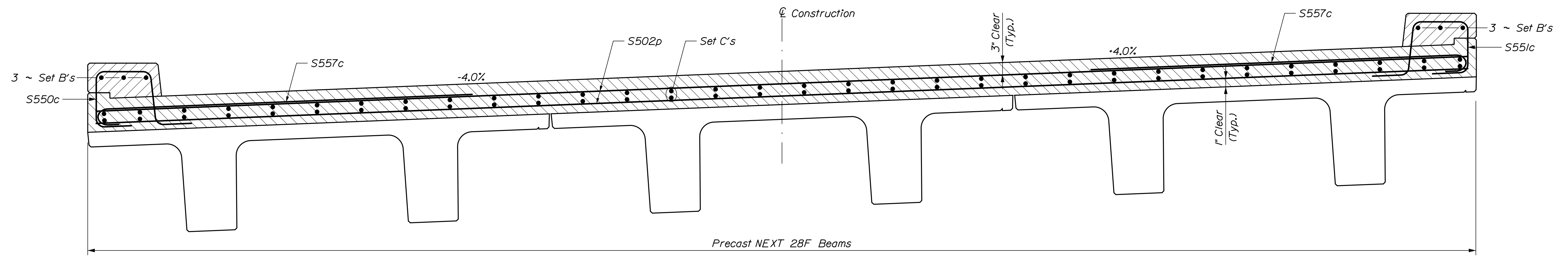
SUPERSTRUCTURE PLAN

PROPOSED TYPICAL BRIDGE SECTION

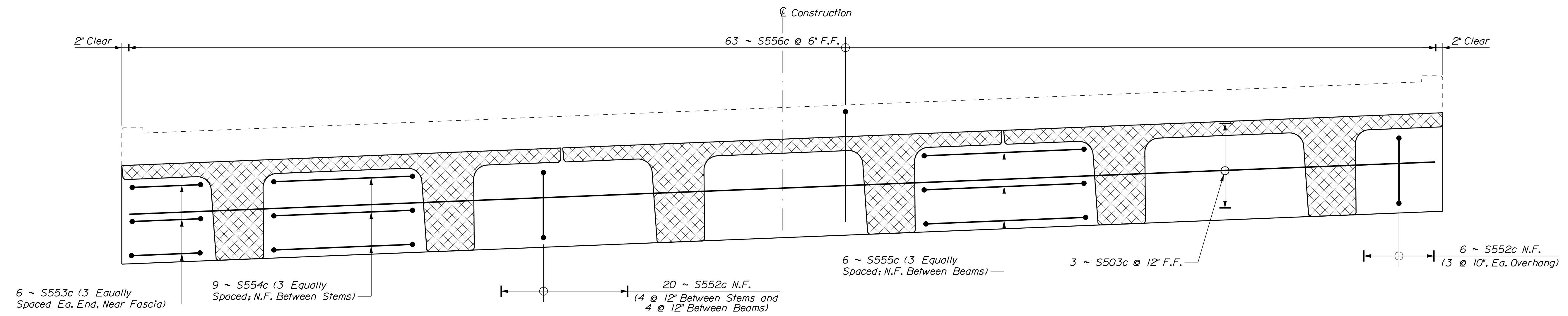
SUPERSTRUCTURE NOTES

1. The deck thickness shall be adjusted in accordance with Special Provision Section 535, Precast, Prestressed Concrete Superstructure, Camber.
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.
4. The Saw Cut Grooving shall be in the longitudinal direction.
5. End diaphragm concrete will be paid for under Item No. 502.261, Structural Concrete Roadway and Sidewalk Slabs on Concrete Bridges and shall be placed with the deck.
6. The superstructure slab and end diaphragm shall be placed in one continuous operation and shall be kept plastic until the entire placement has been made.
7. Bar supports for GFRP reinforcement shall be plastic, dielectric material, or other approved material. See Special Provision Subsection 530.06 for additional requirements.

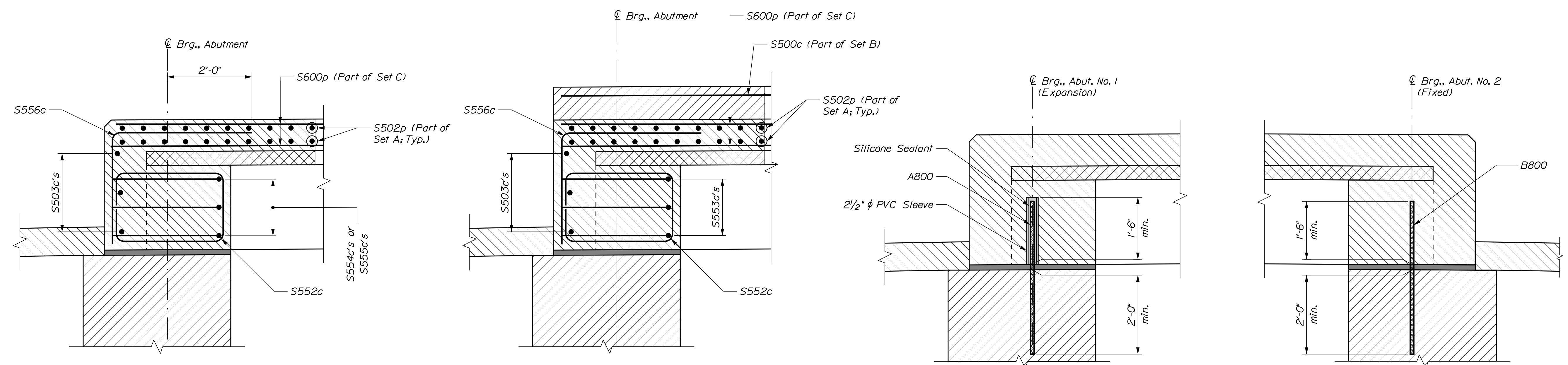
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500		WIN		026105.00		BRIDGE NO. 3787		BRIDGE PLANS	
ROUND POND BRIDGE		ROUND POND OUTLET		WASHINGTON COUNTY		CHARLOTTE		SUPERSTRUCTURE PLAN		SHEET NUMBER		23	
PROJ. MANAGER		M. PARLIN		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGNED/REVIEWED		B. BARTLETT		D. SHAW		OCT 2023		T. WHITE		JUL 2024			
DESIGNED/REVIEWED		N. PIKAY		T. WHITE		JUL 2024							
REVISIONS 1													
REVISIONS 2													
REVISIONS 3													
REVISIONS 4													
FIELD CHANGES													



SUPERSTRUCTURE SECTION



END DIAPHRAGM ELEVATION
Abutment No. 2 End Shown, Abutment No. 1 End, Opposite Hand



END DIAPHRAGM SECTION AT ROADWAY
Approach Slab Rebar, Abutment Rebar and Curb Stirrups Not Shown For Clarity. (Abutment No. 1 Shown, Abutment No. 2 Similar)

END DIAPHRAGM SECTION AT CURB
Approach Slab Rebar, Abutment Rebar and Curb Stirrups Not Shown For Clarity. (Abutment No. 1 Shown, Abutment No. 2 Similar)

SUPERSTRUCTURE ANCHORAGE DETAIL

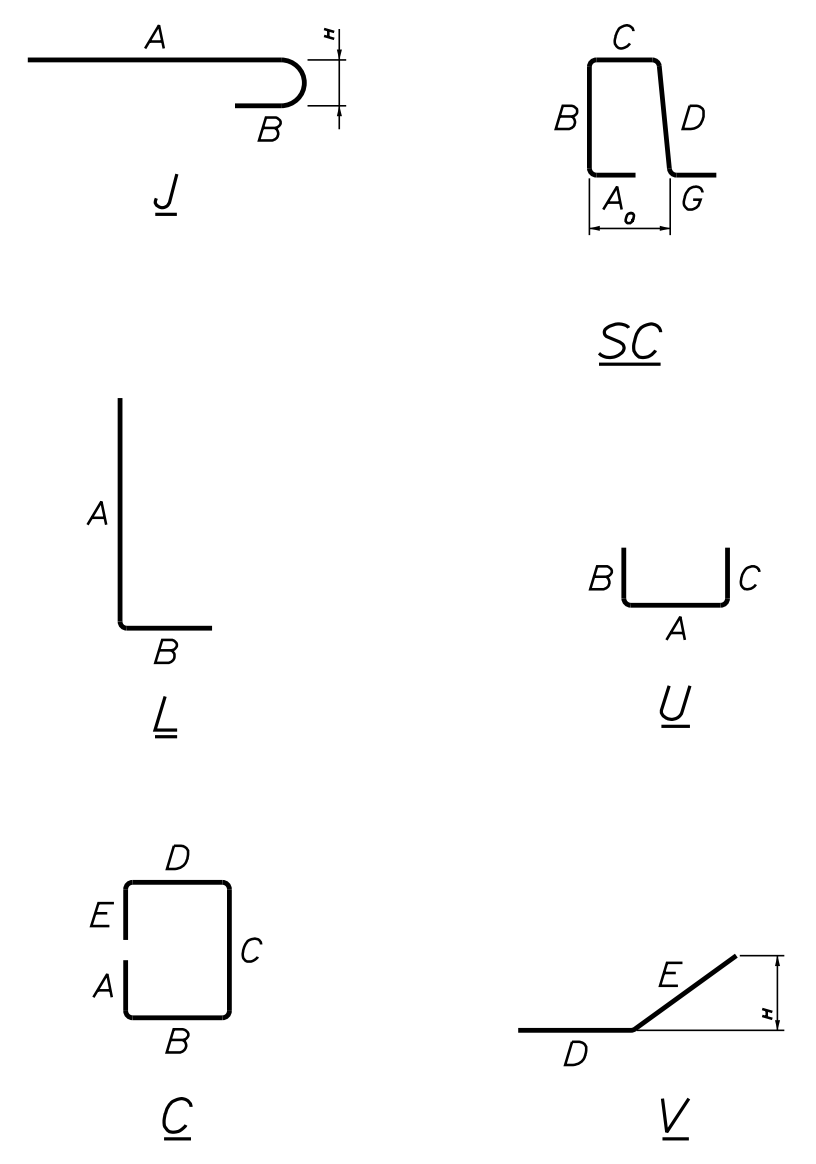
Username: Richard.Mayer Date: 1/15/2025
 Division: BRIDGE
 Filename: ... \024_Superstructure_Section.dgn

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500		WIN		026105.00		BRIDGE NO. 3787		BRIDGE PLANS	
ROUND POND BRIDGE		ROUND POND OUTLET		WASHINGTON COUNTY		CHARLOTTE		SUPERSTRUCTURE SECTION AND		END DIAPHRAGM REINFORCEMENT		SHEET NUMBER	
PROJ. MANAGER	M. PARLIN	BY	D. SHAW	DATE	OCT. 2023	CHECKED	D. SHAW	SIGNATURE		P.E. NUMBER		DATE	
DESIGN DETAILED	B. BARTLETT	DESIGN REVIEWED	N. PIKAY	DESIGN DATE	JUL. 2024	DESIGN DETAILED	T. WHITE	REVISIONS 1		REVISIONS 2		REVISIONS 3	
								REVISIONS 4					
								FIELD CHANGES					
24												OF 26	

Filename: ... \00\BRIDGE\MSTA\025_Rebar.dgn Division: BRIDGE Username: Richard.Mayer Date: 1/15/2025

STRAIGHT BARS								BENT BARS																
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	LOCATION			
ABUTMENT NO. 1				ABUTMENT NO. 2				ABUTMENT NO. 1																
A500	27	5'-0"	Abt. No. 1 Approach Slab Dowel	B500	27	5'-0"	Abt. No. 1 Approach Slab Dowel	A550	25	4'-8 1/2"	U	3'-0 1/2"	10"	10"								Abutment No. 1 Wingwall Ends		
A600	16	4'-4"	Abutment No. 1 Breastwall	B600	16	4'-4"	Abutment No. 1 Breastwall	A551c	3	7'-4"	V				1'-2"	6'-2"					2'-9"	Abutment No. 1 Wingwall Parapet		
A601	1	24'-7"	Abutment No. 1 Breastwall	B601	1	24'-7"	Abutment No. 1 Breastwall	A552c	3	4'-6"	V				1'-2"	3'-4"					1'-7"	Abutment No. 1 Wingwall Parapet		
A602	1	17'-1"	Abutment No. 1 Breastwall	B602	1	17'-1"	Abutment No. 1 Breastwall	A553c	36	4'-8 1/2"	U	3'-0 1/2"	10"	10"								Abutment No. 1 Wingwall Parapet		
A603c	8	6'-0"	Abutment No. 1 Wingwall	B603c	8	6'-0"	Abutment No. 1 Wingwall	A650	75	13'-2"	U	3'-2"	5'-0"	5'-0"								Abutment No. 1 Breastwall Bottom		
A604c	18	6'-7"	Abutment No. 1 Wingwall	B604c	18	6'-7"	Abutment No. 1 Wingwall	A651	46	12'-0"	U	3'-2"	4'-5"	4'-5"								Abutment No. 1 Breastwall Top		
A605c	6	5'-9 1/2"	Abutment No. 1 Wingwall	B605c	6	5'-9 1/2"	Abutment No. 1 Wingwall	A652	39	10'-2"	U	3'-2"	3'-6"	3'-6"								Abutment No. 1 Breastwall Top		
A606c	6	5'-0"	Abutment No. 1 Wingwall	B606c	6	5'-0"	Abutment No. 1 Wingwall	A653	10	6'-7 1/2"	L	5'-0"	1'-7 1/2"									Abutment No. 1 Breastwall Bottom		
A607c	6	4'-2"	Abutment No. 1 Wingwall	B607c	6	4'-2"	Abutment No. 1 Wingwall	A654	10	6'-1 1/2"	L	5'-0"	1'-1 1/2"									Abutment No. 1 Breastwall Bottom		
A608	11	3'-2"	Abutment No. 1 Backwall	B608	11	3'-2"	Abutment No. 1 Backwall	A655	3	6'-9"	L	1'-0"	5'-9"									Abutment No. 1 Breastwall Bottom		
A800	24	3'-7"	End Diaphragm Dowel	B800	24	3'-7"	End Diaphragm Dowel	A656	24	5'-6"	L	1'-0"	4'-6"									Abutment No. 1 Breastwall Bottom		
A801	11	15'-3"	Abutment No. 1 Backwall	B801	11	15'-3"	Abutment No. 1 Backwall	A657	3	4'-1"	L	1'-0"	3'-1"									Abutment No. 1 Breastwall Bottom		
A802	1	17'-1"	Abutment No. 1 Backwall	B802	1	17'-1"	Abutment No. 1 Backwall	A658c	2	16'-6"	U	3'-2"	6'-8"	6'-8"								Abutment No. 1 Wingwall Parapet		
A803	1	24'-7"	Abutment No. 1 Backwall	B803	1	24'-7"	Abutment No. 1 Backwall	A659c	1	13'-9"	U	3'-2"	5'-3 1/2"	5'-3 1/2"								Abutment No. 1 Wingwall Parapet		
SUPERSTRUCTURE				APPROACH SLAB				ABUTMENT NO. 1																
S500c	6	21'-2"	Superstructure Deck	AS501	32	26'-8"	Approach Slab	A660c	1	11'-9"	U	3'-2"	4'-3 1/2"	4'-3 1/2"								Abutment No. 1 Wingwall Parapet		
S501c	6	40'-0"	Superstructure Deck					A661c	1	9'-8"	U	3'-2"	3'-3"	3'-3"								Abutment No. 1 Wingwall Parapet		
S502p	236	31'-0"	Superstructure Deck	AS601	108	15'-2"	Approach Slab	A662c	1	7'-8"	U	3'-2"	2'-3"	2'-3"								Abutment No. 1 Wingwall Parapet		
S503c	6	31'-0"	End Diaphragm					A663c	1	5'-8"	U	3'-2"	1'-3"	1'-3"								Abutment No. 1 Wingwall Parapet		
S600p	64	20'-4"	Superstructure Deck					A664c	4	11'-2"	U	3'-2"	4'-0"	4'-0"								Abutment No. 1 Wingwall Parapet		
S601p	64	40'-0"	Superstructure Deck					A665c	1	10'-1"	U	3'-2"	3'-5 1/2"	3'-5 1/2"								Abutment No. 1 Wingwall Parapet		
								A666c	1	8'-2"	U	3'-2"	2'-6"	2'-6"								Abutment No. 1 Wingwall Parapet		
								A667c	1	6'-4"	U	3'-2"	1'-7"	1'-7"								Abutment No. 1 Wingwall Parapet		
								ABUTMENT NO. 2																
								B550	25	4'-8 1/2"	U	3'-0 1/2"	10"	10"								Abutment No. 2 Wingwall Ends		
								B551c	3	7'-4"	V				1'-2"	6'-2"						2'-9"	Abutment No. 2 Wingwall Parapet	
								B552c	3	4'-6"	V				1'-2"	3'-4"						1'-7"	Abutment No. 2 Wingwall Parapet	
								B553c	36	4'-8 1/2"	U	3'-0 1/2"	10"	10"									Abutment No. 2 Wingwall Parapet	
								B650	75	13'-2"	U	3'-2"	5'-0"	5'-0"									Abutment No. 2 Breastwall Bottom	
								B651	46	12'-0"	U	3'-2"	4'-5"	4'-5"									Abutment No. 2 Breastwall Top	
								B652	39	10'-2"	U	3'-2"	3'-6"	3'-6"									Abutment No. 2 Breastwall Top	
								B653	10	6'-7 1/2"	L	5'-0"	1'-7 1/2"										Abutment No. 2 Breastwall Bottom	
								B654	10	6'-1 1/2"	L	5'-0"	1'-1 1/2"										Abutment No. 2 Breastwall Bottom	
								B655	3	6'-9"	L	1'-0"	5'-9"										Abutment No. 2 Breastwall Bottom	
								B656	24	5'-6"	L	1'-0"	4'-6"										Abutment No. 2 Breastwall Bottom	
								B657	3	4'-1"	L	1'-0"	3'-1"										Abutment No. 2 Breastwall Bottom	
								B658c	2	16'-6"	U	3'-2"	6'-8"	6'-8"									Abutment No. 2 Wingwall Parapet	
								B659c	1	13'-9"	U	3'-2"	5'-3 1/2"	5'-3 1/2"									Abutment No. 2 Wingwall Parapet	
								B660c	1	11'-9"	U	3'-2"	4'-3 1/2"	4'-3 1/2"									Abutment No. 2 Wingwall Parapet	
								B661c	1	9'-8"	U	3'-2"	3'-3"	3'-3"									Abutment No. 2 Wingwall Parapet	
								B662c	1	7'-8"	U	3'-2"	2'-3"	2'-3"									Abutment No. 2 Wingwall Parapet	
								B663c	1	5'-8"	U	3'-2"	1'-3"	1'-3"									Abutment No. 2 Wingwall Parapet	
								B664c	4	11'-2"	U	3'-2"	4'-0"	4'-0"									Abutment No. 2 Wingwall Parapet	
								B665c	1	10'-1"	U	3'-2"	3'-5 1/2"	3'-5 1/2"									Abutment No. 2 Wingwall Parapet	
								B666c	1	8'-2"	U	3'-2"	2'-6"	2'-6"									Abutment No. 2 Wingwall Parapet	
								B667c	1	6'-4"	U	3'-2"	1'-7"	1'-7"									Abutment No. 2 Wingwall Parapet	
								SUPERSTRUCTURE																
								S550c	83	5'-5 1/4"	SC	10"	1'-3 1/2"	1'-3"	1'-2 3/4"			10"				1'-4"	Superstructure Curb	
								S551c	83	5'-3 3/4"	SC	10"	1'-2 3/4"	1'-3"	1'-2"			10"					1'-4"	Superstructure Curb
								S552c	52	8'-5"	C	9 1/2"	2'-7"	1'-8"	2'-7"	9 1/2"								End Diaphragm
								S553c	12	6'-11"	U	1'-9"	2'-7"	2'-7"										End Diaphragm
								S554c	18	8'-7"	U	3'-5"	2'-7"	2'-7"										End Diaphragm
								S555c	12	9'-1"	U	3'-11"	2'-7"	2'-7"										End Diaphragm
								S556c	126	6'-0"	L	3'-4"	2'-8"											End Diaphragm
								S557c	472	9'-1"	J	8'-6"	7"						5'					Superstructure Curb

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.
 Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.
 Plain Reinforcing Steel: ASTM A 615, Grade 60
 Glass Fiber Reinforced Polymer: ASTM D7957
 Low-Carbon Chromium Steel: ASTM A1035, Type CS, Grade 100

GENERAL NOTES

- The first digit(s) following the letter(s) of the mark indicate the size of the bar:
 Mark "A502" = bar size #5
 Mark "P805" = bar size #8
 Mark "S650" = bar size #6
 Mark "P1404" = bar size #14
- All bars shall be Plain Reinforcing Steel unless the bar number is followed by a lower case letter. The lower case letter following the bar number indicates the material of the bar.
 "S500p, p = Glass Fiber Reinforced Polymer
 "P510c, c = Low-Carbon Chromium Steel

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2610500		WIN		026105.00		BRIDGE NO. 3787		BRIDGE PLANS	
ROUND POND BRIDGE				WASHINGTON COUNTY				REINFORCING STEEL SCHEDULE					
CHARLOTTE				ROUND POND OUTLET				SHEET NUMBER					
25				OF 26									

Town, County, State _____
 Approx. Property Lines _____
 Existing Right of Way _____
 Limits of Wrought Portion _____
 Control Of Access _____
 New Right of Way _____
 New Easement _____
 New Temporary Rights _____
 New R/W Within Existing R/W _____

New R/W Along Existing R/W
 Building _____
 Trees Conifer _____
 Tree Line _____
 Water Edge _____
 Ledge _____
 Fence CHAIN LINK _____
 Sign _____

Clearing Limit Line _____
 Bush Line _____
 Rock/Boulder _____
 Flag Pole _____
 BARB WIRE _____
 STOCKADE _____
 WELL _____
 Mailbox _____

Sanitary Sewer _____
 Telephone Line _____
 Electric Line _____
 Water Line _____
 Underdrain Line _____
 Gas Line _____
 Guardrail _____
 Culvert _____

Traveled Way _____
 Ditch _____
 Catch Basin _____
 Manhole _____
 Sewer Manhole _____
 Utility Pole _____
 Fire Hydrant _____
 Curbing _____

Cut Line _____
 Stonewall _____
 Baseline _____
 Monument _____
 Iron Rod Found _____
 Replacement Pin Set _____

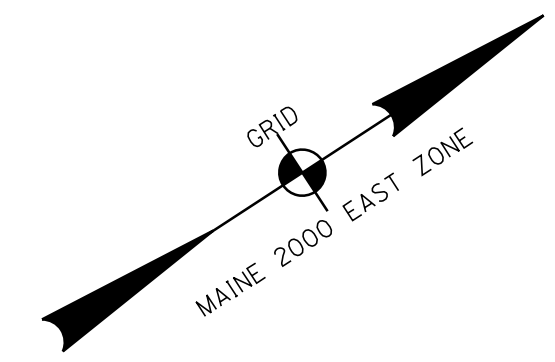
Fill Line _____
 Retaining Wall _____
 Traverse Point _____
 Pipe Found _____

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJACENT PROPERTY OWNERS.

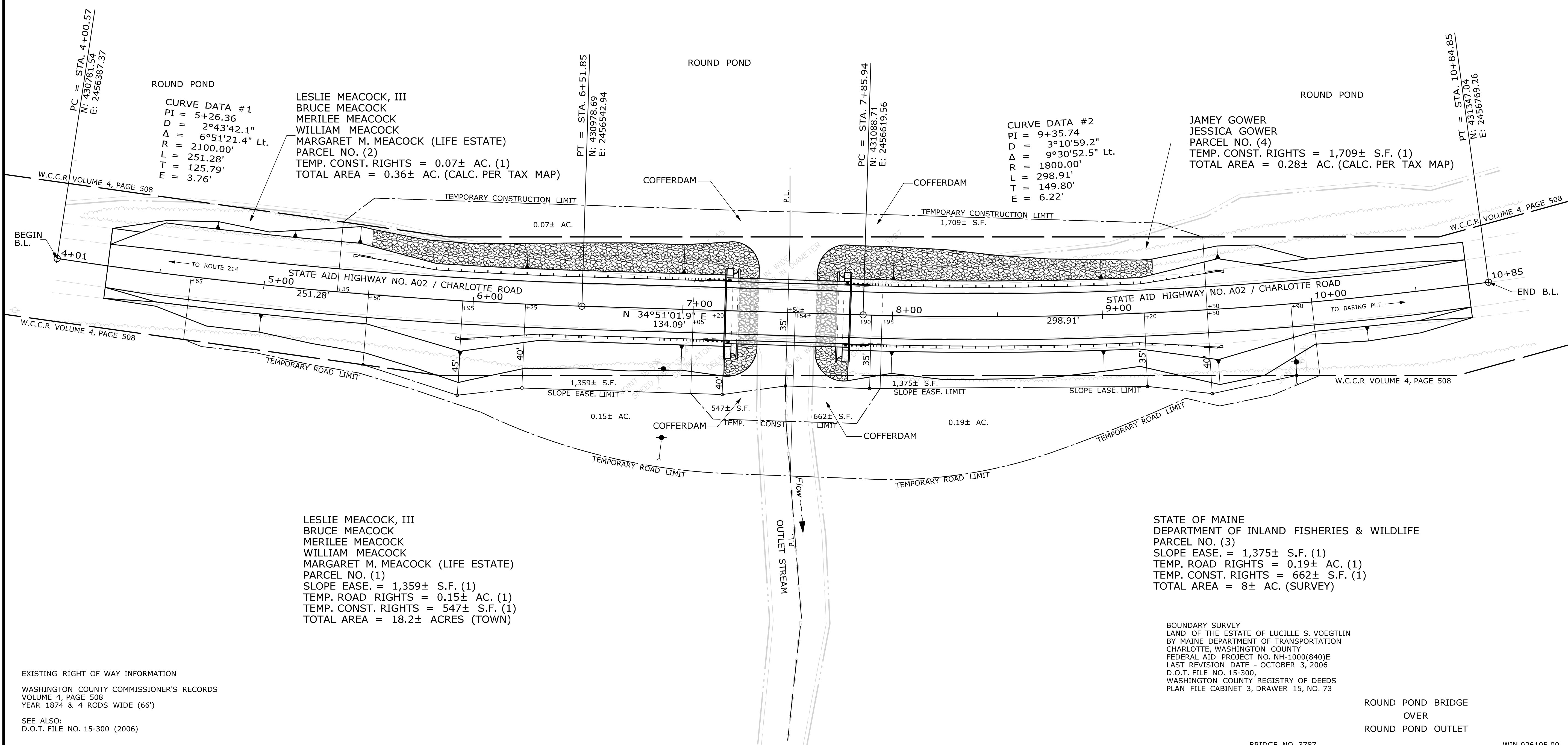
Scale of Feet
 0 25 50 75 100

STATE OF MAINE
 REGISTRY OF DEEDS

COUNTY _____
 RECEIVED _____
 at _____ h _____ m _____ M and
 recorded in Plan Bk _____, Pg. _____
 Attest: _____ REGISTER



CONTROL INFORMATION
 HORIZONTAL DATUM - U.S. STATE PLANE DAD83(2011)
 ZONE - MAINE 2000 EAST
 VERTICAL DATUM - NAVD 88
 COMBINED FACTOR - 1.000089932



ITEM	TECH	CHECKED		
		C.D.P.	G.L.	D.G.
EXISTING CONDITION PLAN				
FINAL RIGHT OF WAY				
AREAS				

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
 CHARLOTTE
 RIGHT OF WAY MAP

NO.	DATE	REVISIONS DESCRIPTION	BY	PLAN FILED IN PLAN BOOK				PAGE COUNTY RECORD					
				NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE				

BRUCE A. VAN NOTE
 COMMISSIONER
 JOYCE NOEL TAYLOR
 CHIEF ENGINEER

DATE _____

BRIDGE NO. 3787 WIN 026105.00

STATE AID HIGHWAY NO. A02
 CHARLOTTE ROAD
 CHARLOTTE WASHINGTON COUNTY
 FEDERAL AID PROJECT NUMBER 2610500

JUNE 2024
 SCALE 1" = 25'

RIGHT-OF-WAY MAP
 SHEET 1 OF 1

D.O.T. FILE NO. 15-346

SHEET NUMBER
26
 OF 26

Date: 1/15/2025
 Username: Richard.Moyer
 Division: BRIDGE
 Filename: ... \00\ROW\MSTA\001_RWPLAN1.dgn