

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



LITCHFIELD KENNEBEC COUNTY BUKER RD OVER BUKER POND OUTLET BRIDGE NO. 2035 WIN: 030727.00 WR: 49875

SPECIFICATIONS

- MaineDOT Standard Specifications 2020 W/ Updates
- MaineDOT Standard Details 2020 W/ Updates
- MaineDOT Bridge Maintenance Manual

TRAFFIC DATA

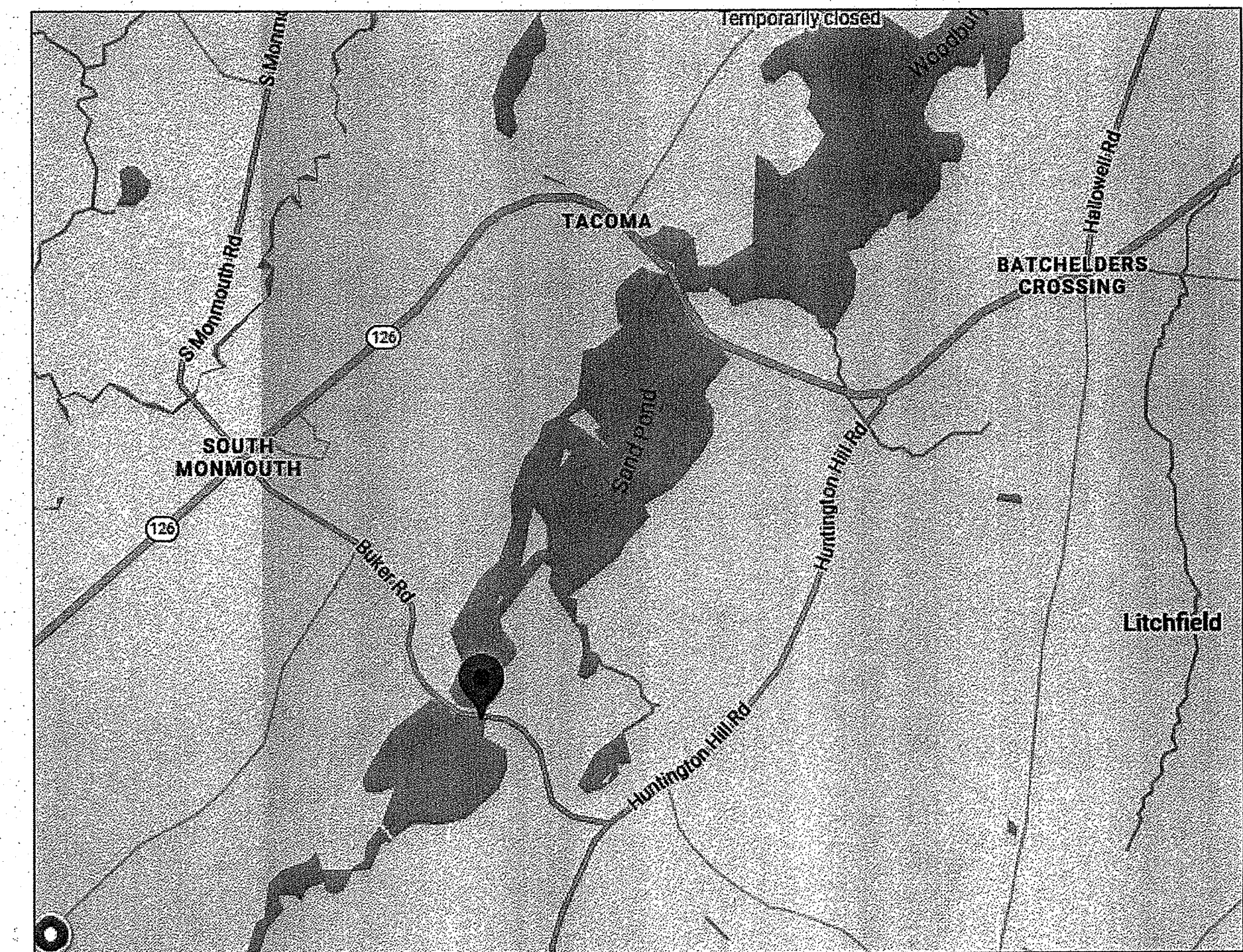
Current (2023) AADT 1330
Posted Speed Limit 35 mph

MATERIALS

- Concrete:**
All Concrete (Except as Noted) Class A
- Reinforcing Steel:** ASTM A615, Grade 60
- Structural Steel:**
All Material (except as Noted) AASHTO M 270 / ASTM A 709, Grade 50
High Strength Bolts ASTM F3125, Grade A 325, Type 1
- Guardrail Beam, Composite/Wood:**
Offset Blocks & Post See Standard Specifications Section 710
Base Plate & Anchor Plate AASHTO M 270, Grade 36
ASTM A709, Grade 36
- Anchor Bolts** ASTM A 449 or ASTM F 1554, Grade 55
Anchor Bolt Washer/ Nuts ASTM F 436 / ASTM A 563

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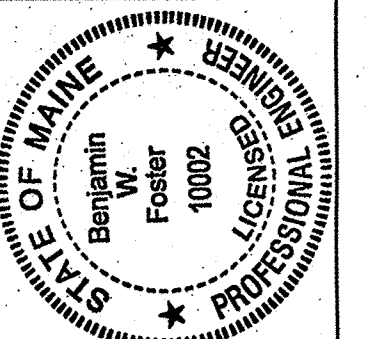
LOCATION MAP

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.10	Removing Existing Superstructure (Property of the Contractor) (2 CY)	1	LS
202.121	Removing Existing Concrete (23 CY)	1	LS
202.127	Removing Existing Bituminous Pavement (180 SY)	1	LS
202.14	Removing Existing Railings (Property of the Contractor)	156	LF
203.20	Common Excavation	30	CY
304.10	Aggregate Subbase Course-Gravel	57	CY
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	14	TON
403.213	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base Course)	24	TON
409.15	Bituminous Tack Coat, Applied	12	GAL
502.21	Structural Concrete, Abutments, and Retaining walls	7	CY
502.453	Structural Concrete Moment Slab (30 CY)	1	LS
502.49	Structural Concrete Curbs and Sidewalks (15 CY)	1	LS
503.12	Reinforcing Steel, Fabricated and Delivered	6434	LB
503.13	Reinforcing Steel, Placing	6434	LB
506.1775	Field Painting	1	LS
507.08	Bridge Railing	56	LF
515.21	Protective Coating for Concrete Surfaces (92 SY)	1	LS
524.30	Temporary Structural Support	1	EA
525.26	Repointing Granite Masonry	314	SF
606.23	Guardrail Type 3C - Single Rail	100	LF
606.362	Guardrail Adjustment	100	LF
652.39	Work Zone Traffic Control	1	LS
656.75	Temporary Soil Erosion and Water Pollution Control	1	LS
659.10	Mobilization	1	LS

PROJECT LOCATION	Buker Bridge (#2035) over Buker Pond Outlet Lat./Long. 44°10'12.2" N 69°58'38.4" W
PROGRAM AREA	Maintenance & Operations
OUTLINE OF WORK	Bridge Improvements

WIN 030727.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER: <i>[Signature]</i>	3-31-26
	CHIEF ENGINEER: <i>[Signature]</i>	3-31-26



Benjamin W. Foster
SIGNATURE
10002
P.E. NUMBER
3/31/2026
DATE

PROGRAM	MAINTENANCE & OPERATIONS
PROJECT MANAGER	CODY COUTTS
DESIGNER	JAMES COSTIGAN
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

LITCHFIELD
BUKER BRIDGE
TITLE SHEET

SHEET NUMBER

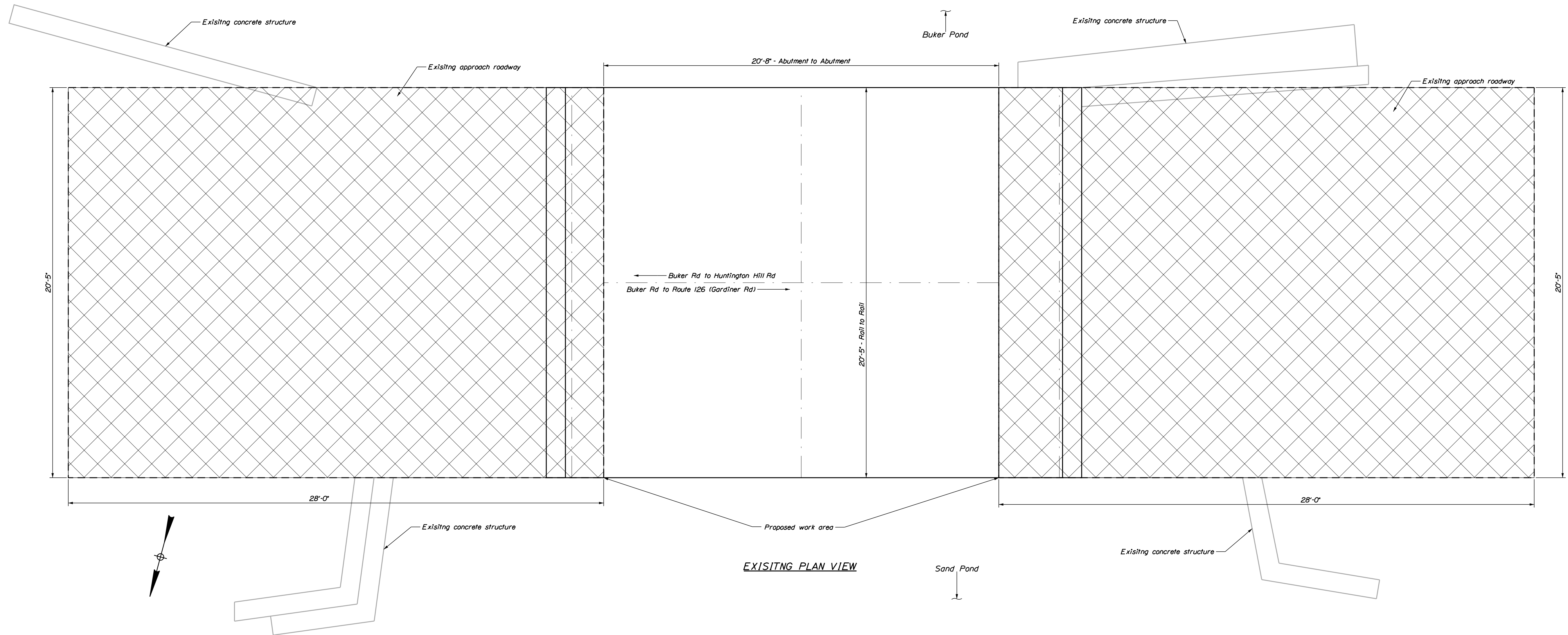
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Date: 3/31/2026

Username: Kenneth.DyerIII

Division: BR/MAINT

Filename: \Desk\top\Br 2035 Litchfield.dgn



GENERAL CONSTRUCTION NOTES

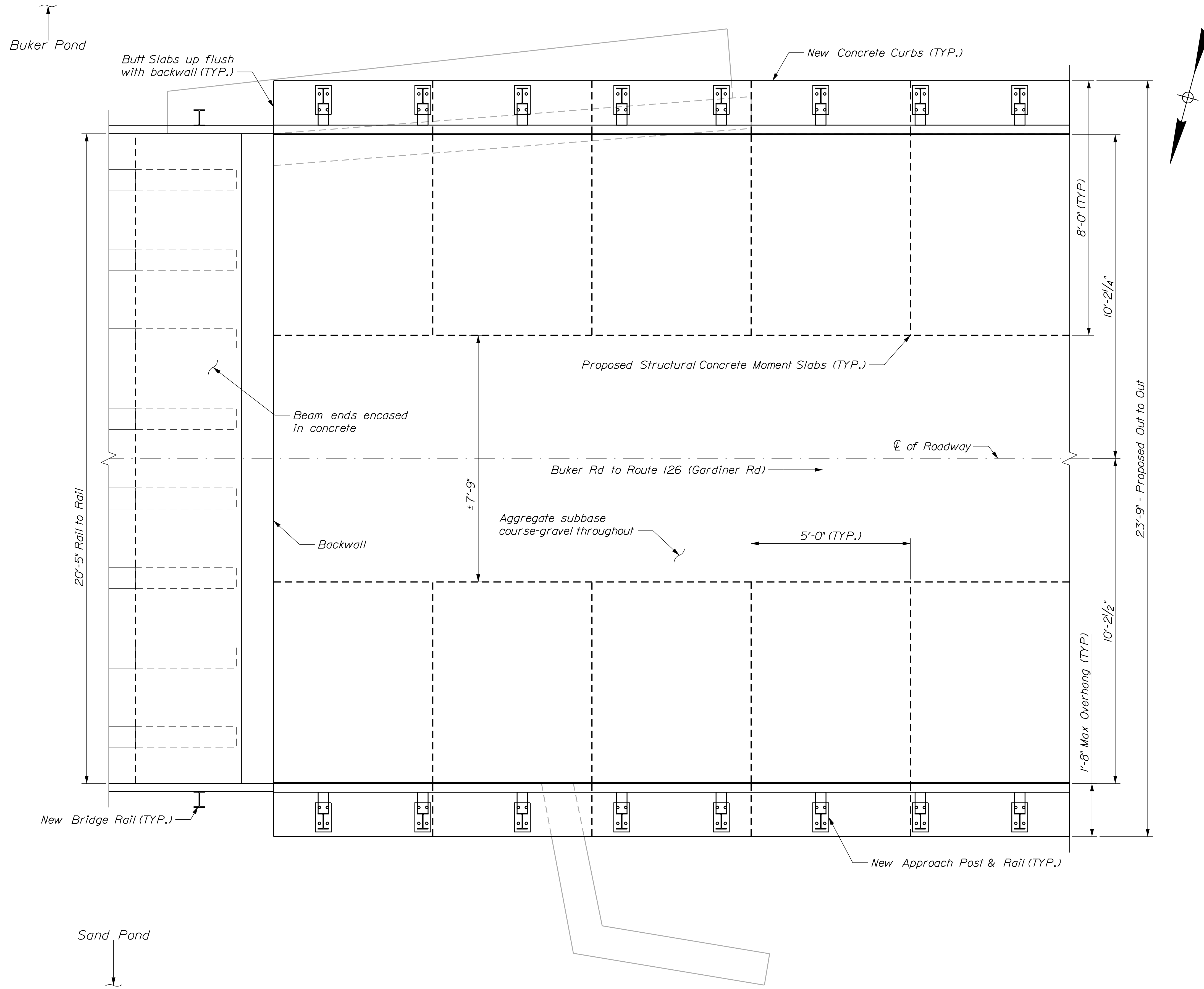
1. All removed materials shall become the property of the Contractor unless otherwise noted.
2. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
3. Project information referred to below may be accessed at the following MaineDOT web address: <https://www.maine.gov/dot/doing-business/bid-opportunities>
4. 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.
5. Dimensions shown are approximate and may differ from actual field dimensions. Field verify all dimensions prior to commencing work.
6. Any damage to the Bridge Superstructure due to the contractors negligence shall be replaced in kind and at no additional cost to the department
7. Areas of exterior beams where the existing coating system is compromised due to removal and grinding clean of existing bridge rail posts shall receive a zinc rich protective coating prior to the installation of new bridge rail in accordance with Special Provision 506.
8. The removal of corrugated Bridge deck shall be in accordance with Item 202.10.
The removal of existing Bridge and approach rails shall be in accordance with Item 202.14
9. 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.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
MAINTENANCE & OPERATIONS		BRIDGE NO. 2035	
WIN		030727.00	
BRIDGE PLANS			

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">PROJ. MANAGER:</th> <th style="width: 10%;">C. COSTIS</th> <th style="width: 10%;">BY</th> <th style="width: 10%;">DATE</th> </tr> <tr> <td>DESIGN-DETAILED</td> <td>J. COSTIGAN</td> <td>K. DYERILL</td> <td>1/2026</td> </tr> <tr> <td>CHECKED-REVIEWED</td> <td>B. FOSTER</td> <td>J. VELLEUX</td> <td>1/2026</td> </tr> <tr> <td>DESIGN-DETAILED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DESIGN-DETAILED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>REVISIONS 1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>REVISIONS 2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>REVISIONS 3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>REVISIONS 4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FIELD CHANGES</td> <td></td> <td></td> <td></td> </tr> </table>	PROJ. MANAGER:	C. COSTIS	BY	DATE	DESIGN-DETAILED	J. COSTIGAN	K. DYERILL	1/2026	CHECKED-REVIEWED	B. FOSTER	J. VELLEUX	1/2026	DESIGN-DETAILED				DESIGN-DETAILED				REVISIONS 1				REVISIONS 2				REVISIONS 3				REVISIONS 4				FIELD CHANGES				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"> BUKER BUKER POND OUTLET KENNEBEC COUNTY LITCHFIELD </td> <td style="width: 50%; text-align: center;"> SIGNATURE P.E. NUMBER DATE </td> </tr> </table>	BUKER BUKER POND OUTLET KENNEBEC COUNTY LITCHFIELD	SIGNATURE P.E. NUMBER DATE
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BUKER POND OUTLET KENNEBEC COUNTY LITCHFIELD	EXISTING PLAN & NOTES
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SHEET NUMBER	2
OF 11	



PROPOSED PLAN VIEW

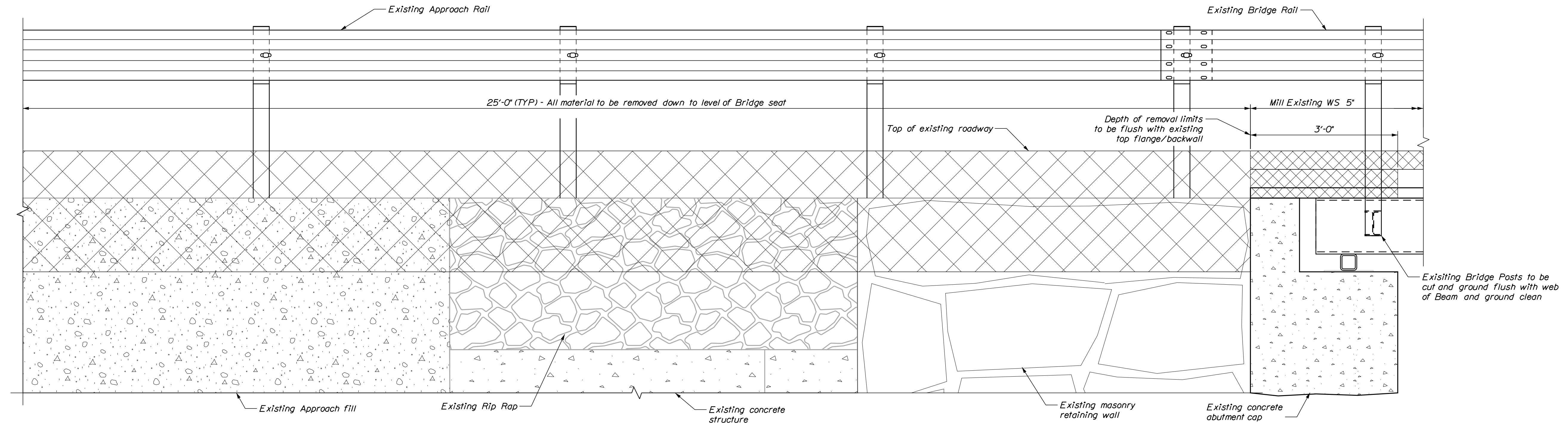
STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 MAINTENANCE & OPERATIONS

BRIDGE NO. 2035
 WIN
 030727.00
 BRIDGE PLANS

PROJ. MANAGER:	C. COULTS	BY:	DATE:
DESIGN-DETAILED	J. COSTIGAN	K. DYERILL	1/2026
CHECKED-REVIEWED	B. FOSTER	J. VILLEUX	1/2026
DESIGN-DETAILED2			
DESIGN-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

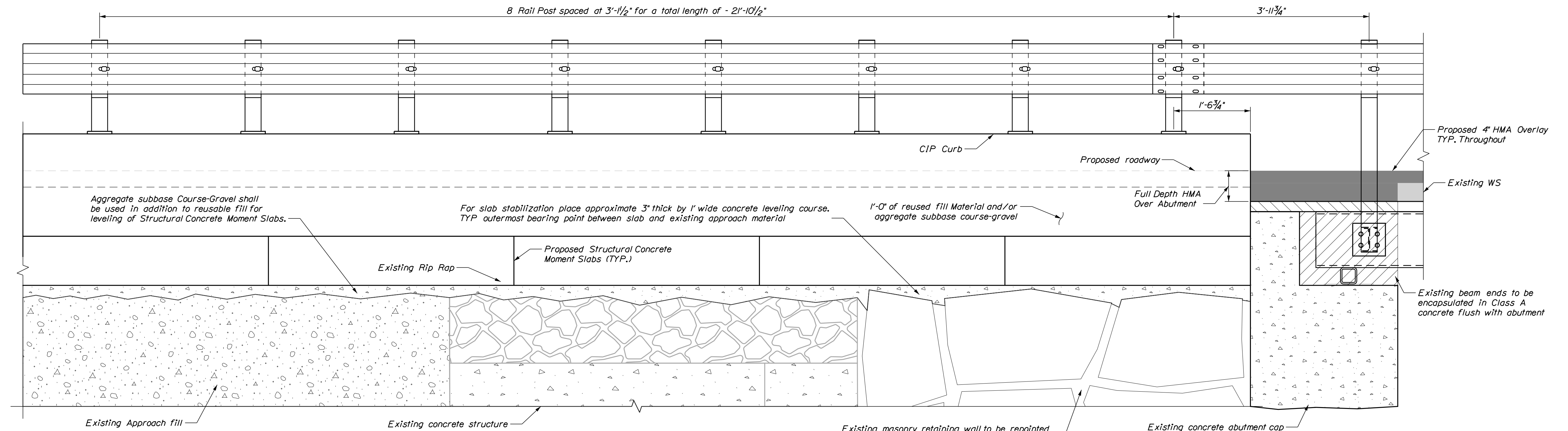
BUKER
 BUKER POND OUTLET
 KENNEBEC COUNTY
 LITCHFIELD
 HALF PLAN VIEW

SHEET NUMBER
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 OF 11



NORTHEAST PROPOSED WORK AREA

Removed materials shall be reused where applicable as approved by the resident and in accordance with these contract documents.



NORTHEAST PROPOSED WORK

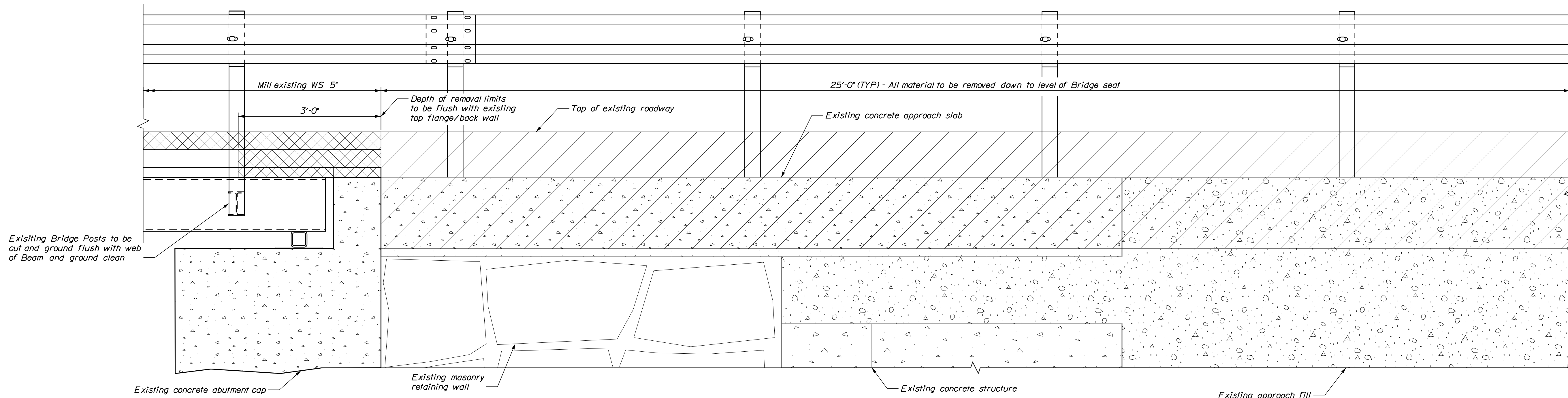
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Division: BRMAINT

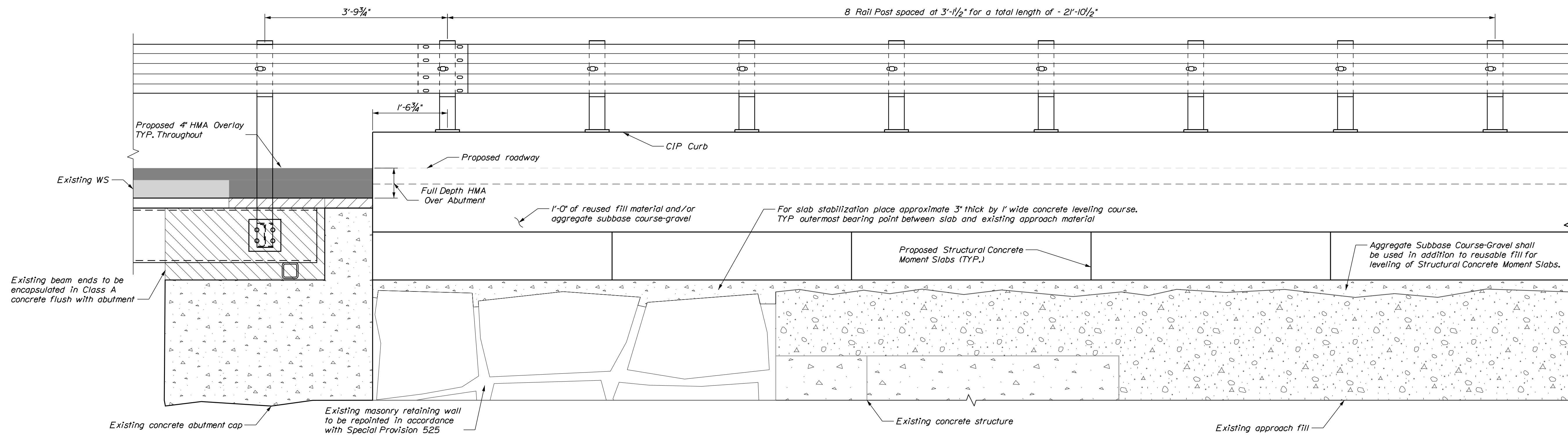
Username: Kenneth.Dyerill

Date: 3/31/2026



NORTHWEST PROPOSED WORK AREA

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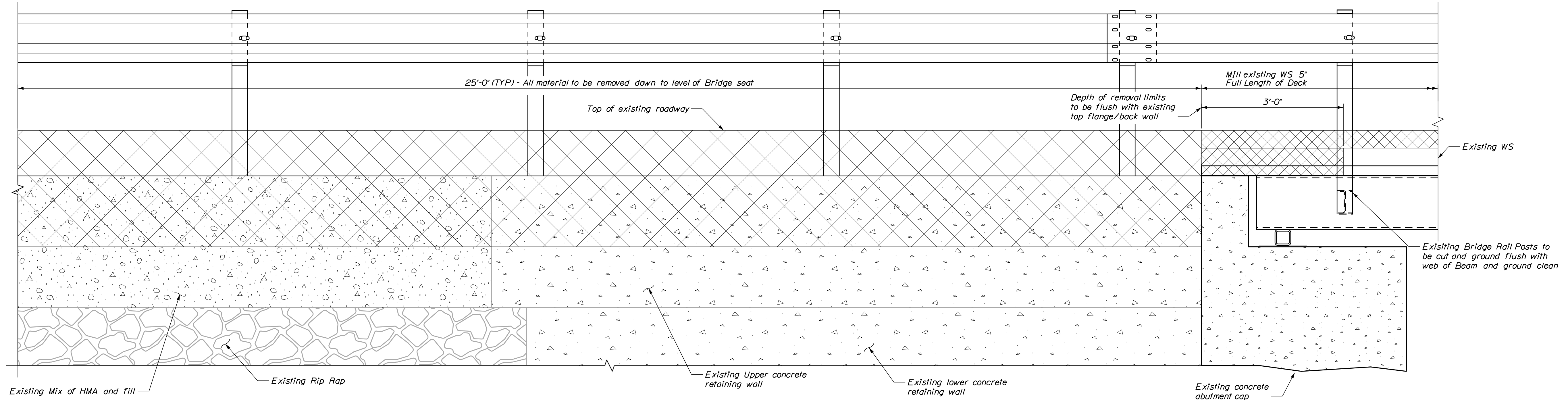


NORTHWEST PROPOSED WORK

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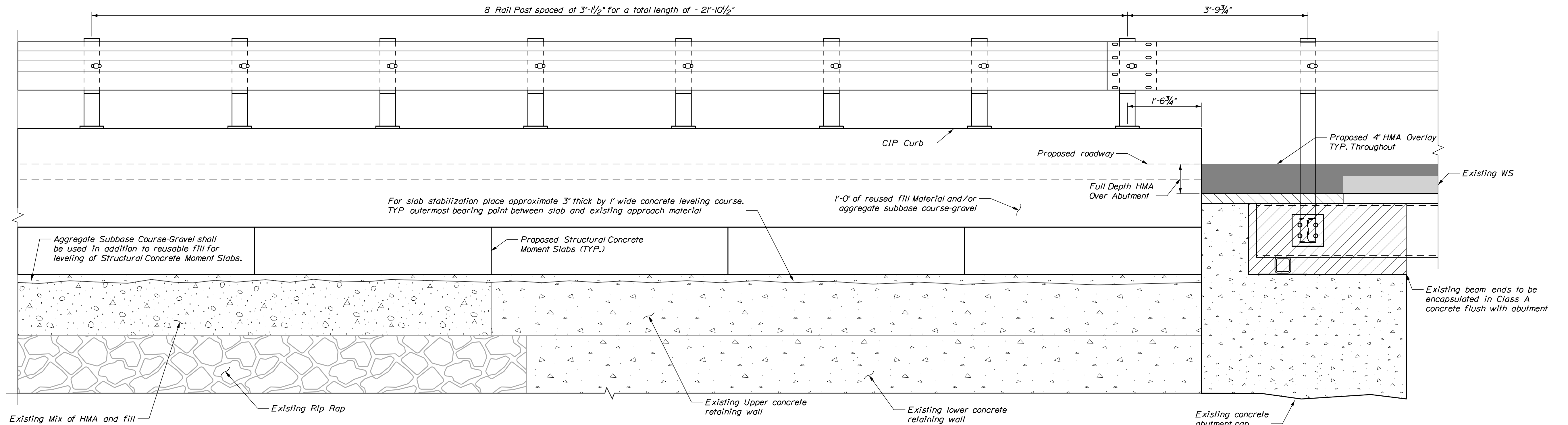
PROJ. MANAGER:	C. COUTTS	DATE	1/2026
DESIGN-DETAILED	J. COSTIGAN	BY	K.DYERILL
CHECKED-REVIEWED	B. FOSTER	DATE	1/2026
DESIGN-DETAILED	J. VILLEUX	SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER:	C. COUTTS	DATE	1/2026
DESIGN-DETAILED	J. COSTIGAN	BY	K.DYERILL
CHECKED-REVIEWED	B. FOSTER	DATE	1/2026
DESIGN-DETAILED	J. VILLEUX	SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



SOUTHWEST PROPOSED WORK AREA

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SOUTHWEST PROPOSED WORK

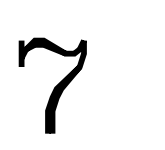
Removed materials shall be reused where applicable as approved by the resident and in accordance with these contract documents.

PROJ. MANAGER:	C. COULTS	DATE	1/2026
DESIGN-DETAILED	J. COSTIGAN	BY	K.DYER III
CHECKED-REVIEWED	B. FOSTER	DATE	1/2026
DESIGN2-DETAILED2		SIGNATURE	
DESIGN3-DETAILED3		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER:	C. COULTS	DATE	1/2026
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CHECKED-REVIEWED	B. FOSTER	DATE	1/2026
DESIGN2-DETAILED2		SIGNATURE	
DESIGN3-DETAILED3		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BUKER
 BUKER POND OUTLET
 KENNEBEC COUNTY
 LITCHFIELD
 SOUTH WEST SECTION VIEW

SHEET NUMBER

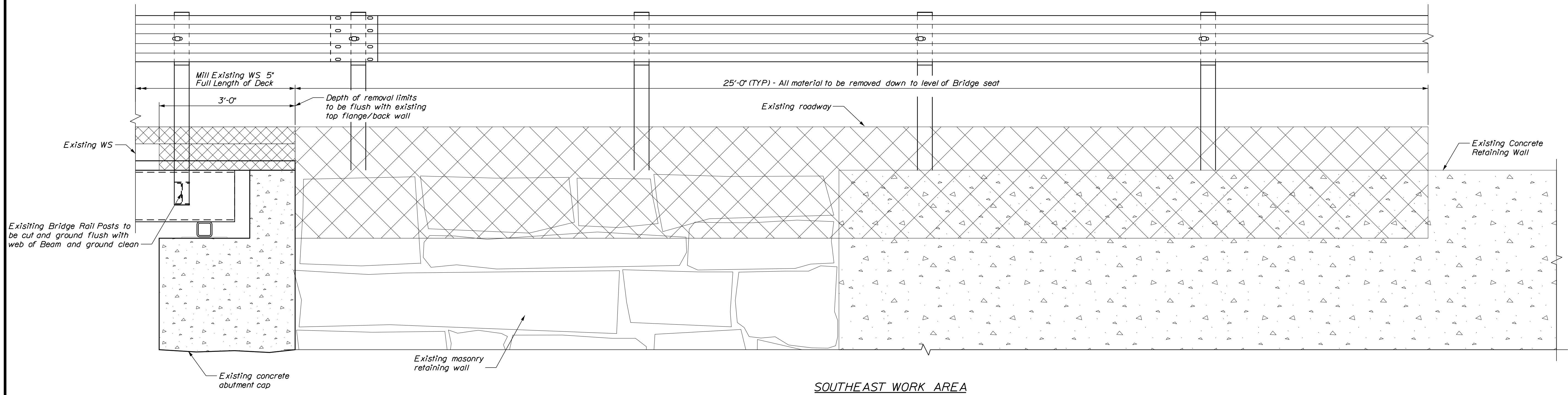


Date: 3/31/2026

Username: Kenneth.Dyerill

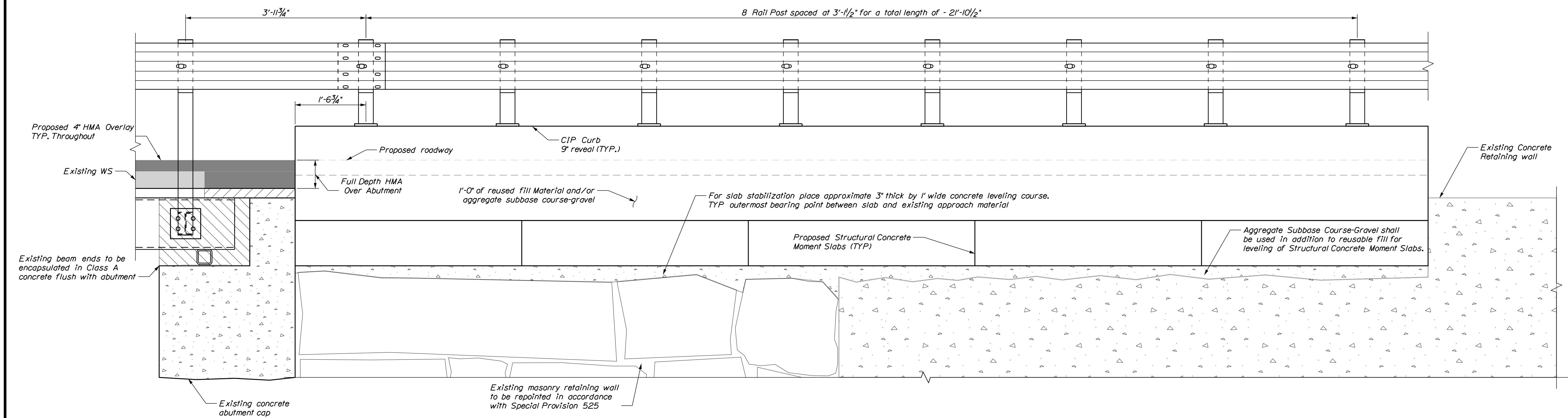
Division: BRMAINT

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SOUTHEAST WORK AREA

Removed materials shall be reused where applicable as approved by the resident and in accordance with these contract documents.



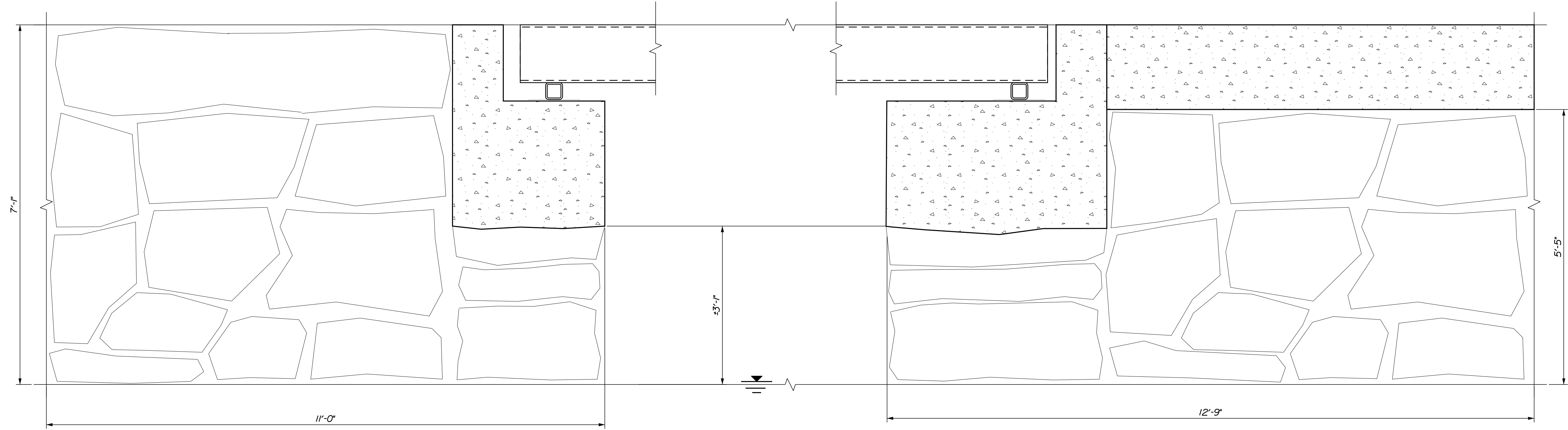
SOUTHEAST PROPOSED WORK

Removed materials shall be reused where applicable as approved by the resident and in accordance with these contract documents.

PROJ. MANAGER:	C. COUTTS	DATE	
DESIGN DETAILED:	J. COSTIGAN	1/2026	
CHECKED-REVIEWED:	K. DYERILL / B. FOSTER	1/2026	
DESIGN DETAILED 2:	J. VELLEUX		
DESIGN DETAILED 3:			
REVISIONS:			
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FIELD CHANGES:			

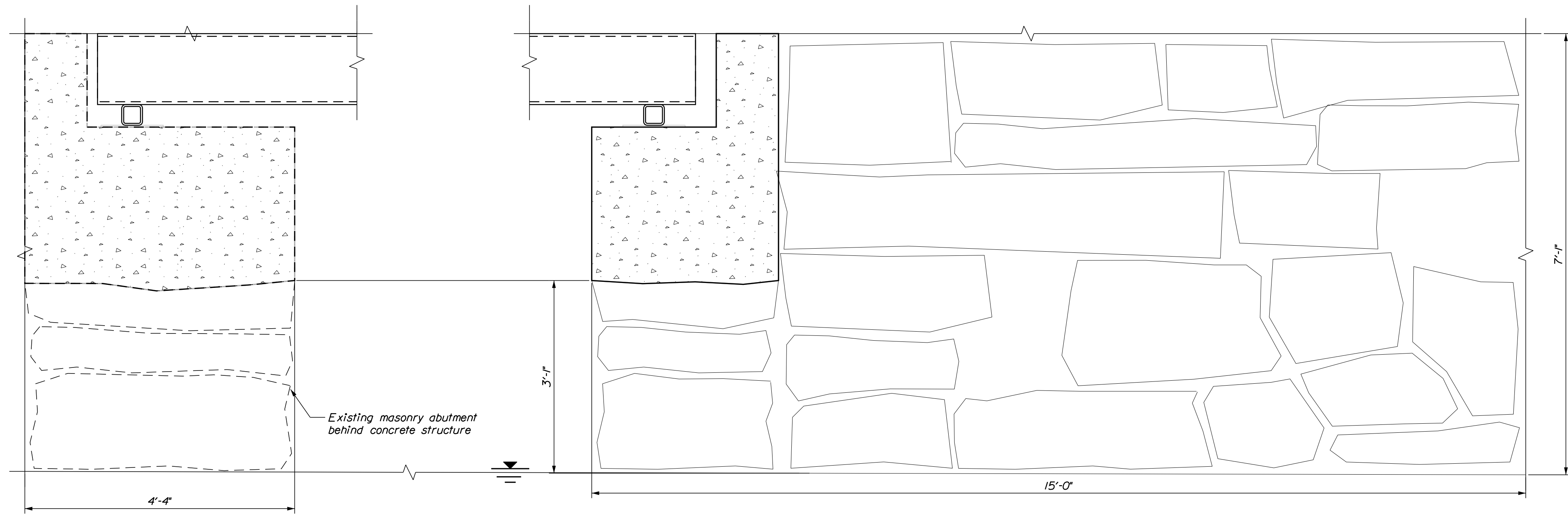
BY:		DATE:	
SIGNATURE:		P.E. NUMBER:	
		DATE:	

BUKER
 BUKER POND OUTLET
 KENNEBEC COUNTY
 LITCHFIELD
SOUTH EAST SECTION VIEW



TYPICAL EXISTING MASONRY SECTION NORTH VIEW

Existing masonry retaining walls
and masonry abutments to be repointed in
accordance with Special Provision 525



TYPICAL EXISTING MASONRY SECTION SOUTH FACE

Existing masonry retaining walls
and masonry abutments to be repointed in
accordance with Special Provision 525

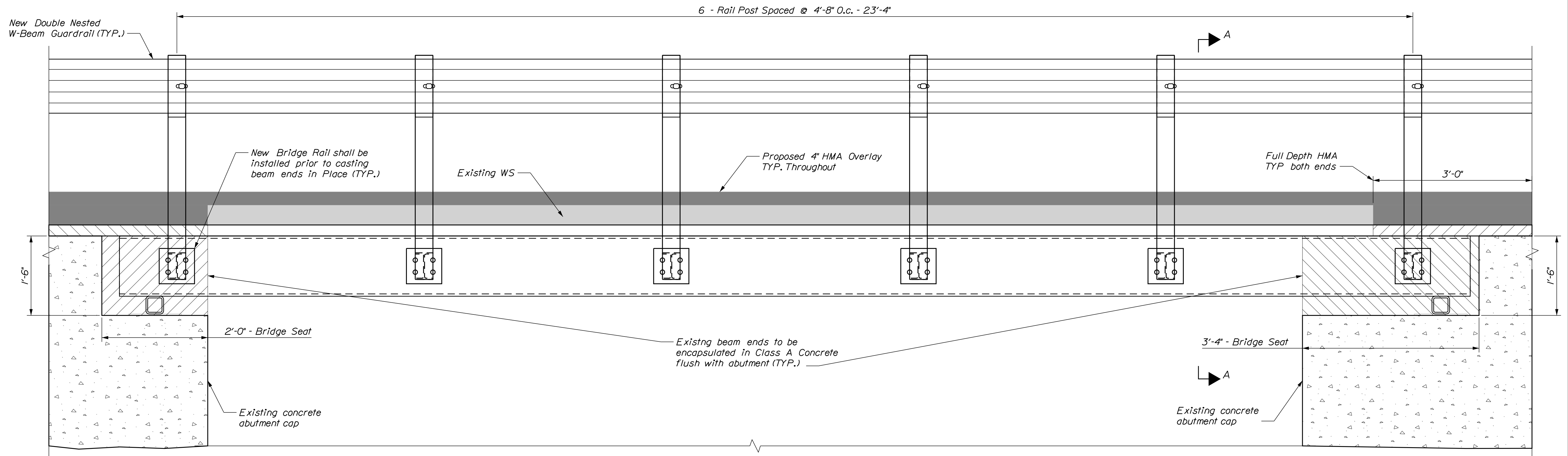
PROJ. MANAGER	C. COUTTS	BY	DATE
DESIGN-DETAILED	J. COSTIGAN	K. DYER III	1/2026
CHECKED-REVIEWED	B. FOSTER	J. VELLEUX	1/2026
DESIGN-DETAILED2			
DESIGN-DETAILED3			
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FIELD CHANGES			

Date: 3/31/2026

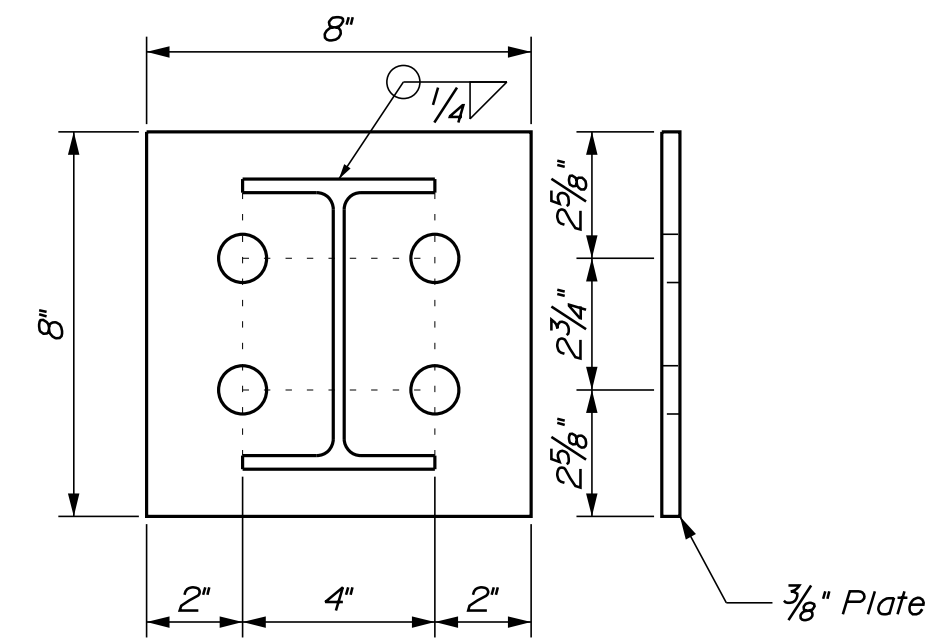
Username: Kenneth.Dyer III

Division: BRMAINT

Filename: \Desktop\Br 2035 Litchfield.dgn

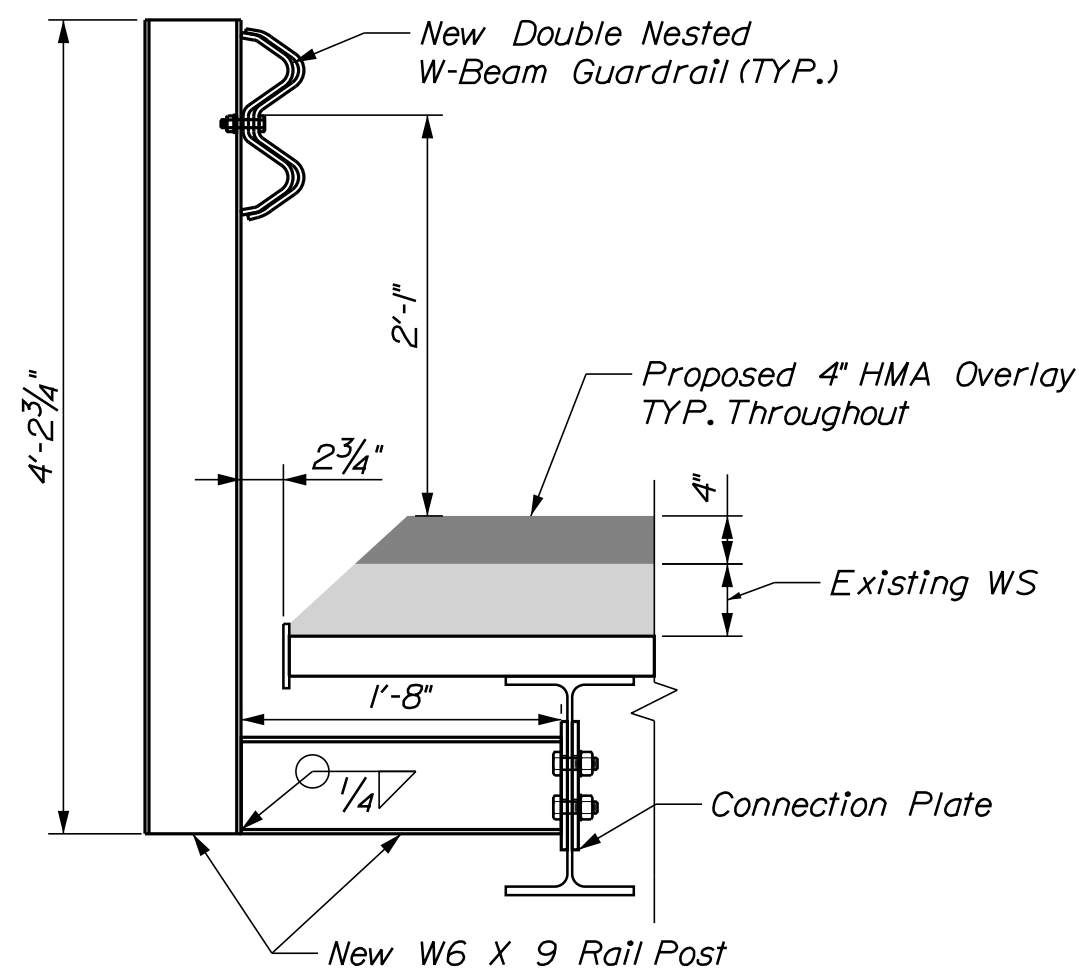


TYPICAL SECTION VIEW
Northern Side Shown Southern Side Similar



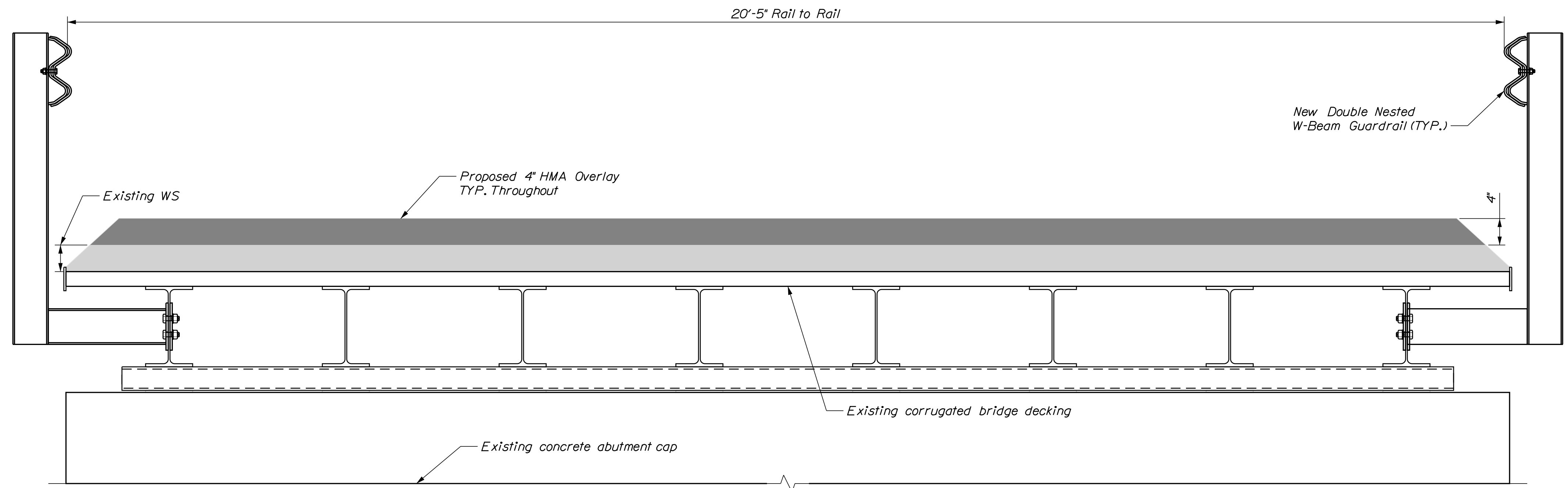
CONNECTION PLATE (12)

1" Dia hole for 3/4" x 2/4" A325 Structural Bolt



NEW BRIDGE RAIL SECTION TYP

All dimensions shall be field verified as depth of existing WS pavement may vary



TYPICAL TRANSVERSE SECTION VIEW (A-A)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
MAINTENANCE & OPERATIONS
WIN
030727.00
BRIDGE NO. 2035
BRIDGE PLANS

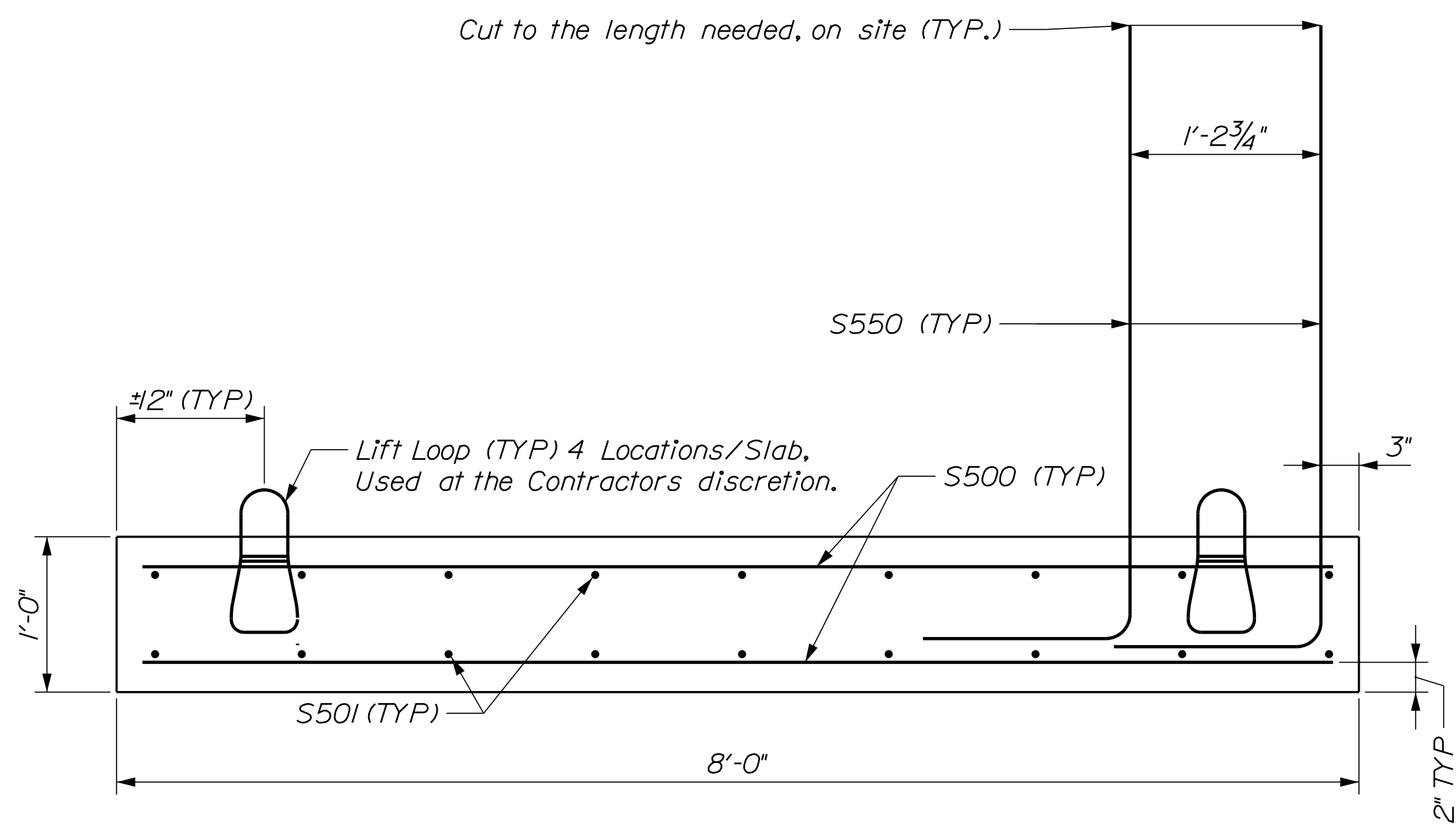
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DESIGNED/MAILED:	J. COSTIGAN	K. DYER III	1/2026
CHECKED/REVIEWED:	B. FOSTER	J. VELLEUX	1/2026
DESIGN-DETAILED:			
DESIGN-DETAILED:			
REVISIONS 1:			
REVISIONS 2:			
REVISIONS 3:			
REVISIONS 4:			
FIELD CHANGES:			

BUKER
BUKER POND OUTLET
LITCHFIELD
KENNEBEC COUNTY
BRIDGE RAIL DETAILS

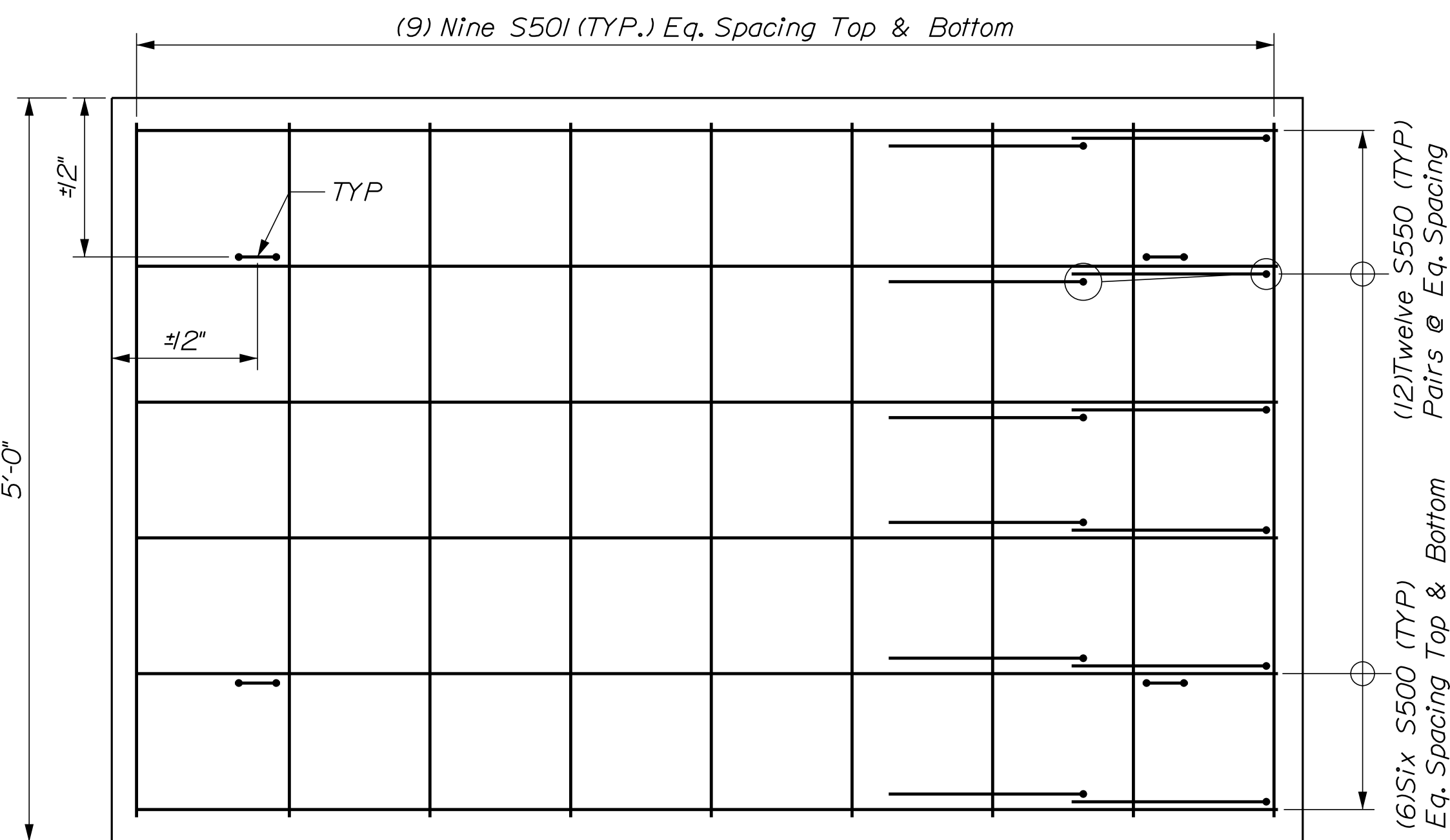
SHEET NUMBER

10

OF 11



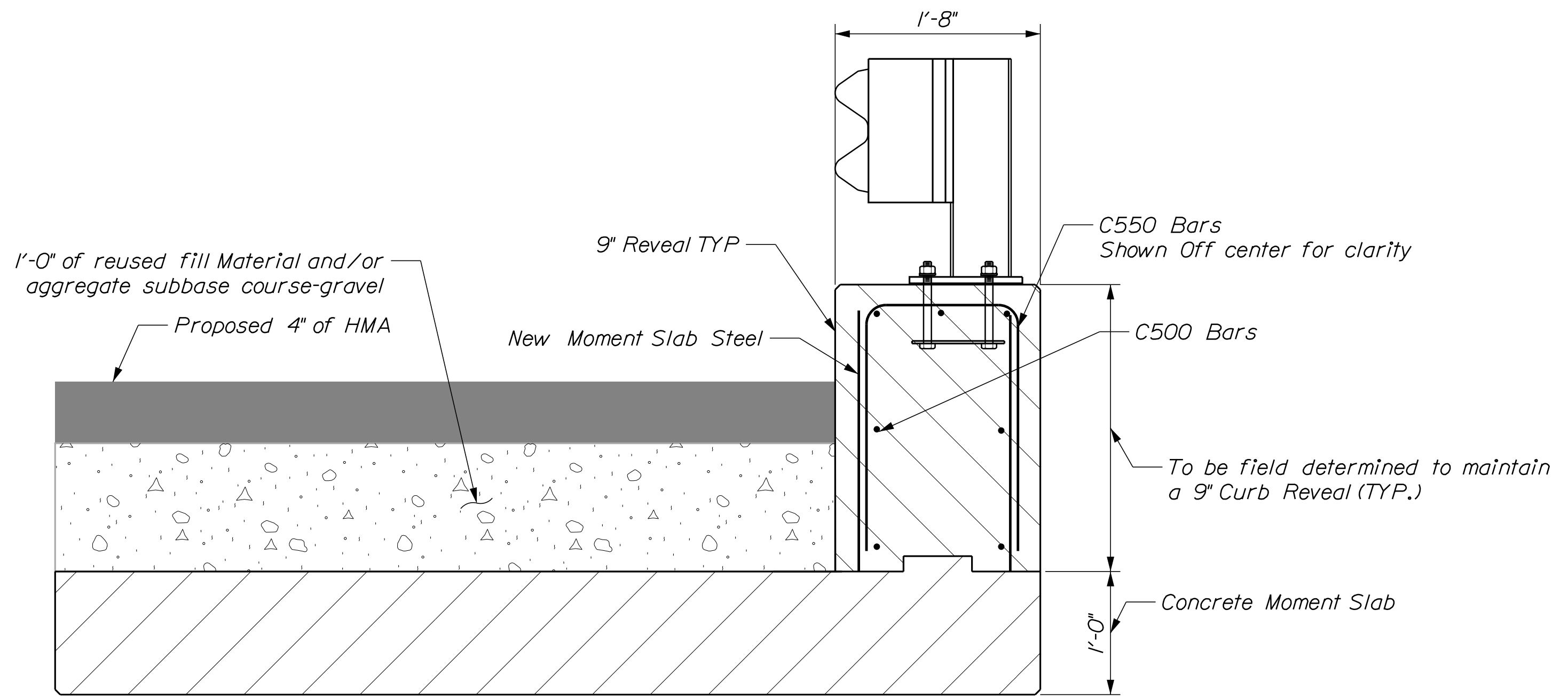
SIDE VIEW



PLAN VIEW

GENERAL NOTES

- Quantity (Slabs) = 20 Total
- Weight Per Slab = 5,800 lbs.
- Quantity (Lift Loops) = 80 Total
- Lifting loops may be used for the Contractors convenience and at no additional cost to the Department. This note only applies if the Contractor elects to precast the moment slabs. Lifting loops will be used to move precast moment slabs into place and shall be used in accordance with the manufacturer's recommendations.
- Plans depict the Structural Concrete Moment Slabs as precast. However, the contractor has the option to cast in place.
- If the Contractor elects to precast the Structural Concrete Moment Slabs then the slabs shall be handled with care and shipped/stored on unaged at no additional cost to The Department.



PROPOSED STRUCTURAL CONCRETE MOMENT SLAB SECTION

REINFORCING SCHEDULE

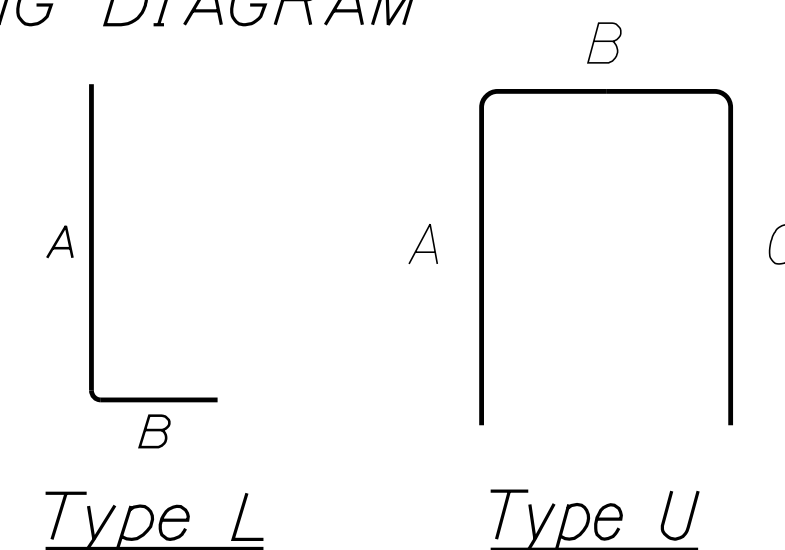
BENT BARS							
MARK	QTY.	LENGTH	TYPE	A	B	B	LOCATION
S550	240	5'-4"	L	4'-0"	1'-4"	N/A	Moment Slabs, Bar Size #5
C550	120	5'-4"	U	2'-0"	1'-4"	2'-0"	Curbs, Bar Size #5

REINFORCING NOTES

- All reinforcing size #5, 5/8" diameter
- Use ASTM A615, Grade 60

STRAIGHT BARS			
MARK	QTY.	LENGTH	LOCATION
S500	240	7'-8"	Moment Slabs, Bar Size #5
S501	360	4'-8"	Moment Slabs, Bar Size #5
C500	28	24'-8"	Curbs, Bar Size #5

BENDING DIAGRAM



CONCRETE NOTES

- Reinforcing clear cover 2" minimum, Unless otherwise noted
- Concrete Volume 1.5 cy per Slab
- An approved protective coating for concrete surfaces from the MaineDOT qualified product list for concrete coatings and sealers shall be applied to all exposed surfaces of new concrete in accordance with The Manufacturer's recommendations.
- All rebar splices shall be in accordance with Section 503 - Reinforcing Steel of the Standard Specifications.
- The Contractor may choose to precast the Structural Concrete Moment Slabs or cast them in place in accordance with Special Provision Section 502 - Structural Concrete (Moment Slab)

PROJ. MANAGER:	DATE	BY	SIGNATURE
DESIGN-DETAILED	1/2026	L. COSTIGANI	
CHECKED-REVIEWED	1/2026	B. FOSTER	
DESIGN-DETAILED 2		J. VILLEUX	
DESIGN-DETAILED 3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER:	DATE	BY	SIGNATURE
DESIGN-DETAILED	1/2026	L. COSTIGANI	
CHECKED-REVIEWED	1/2026	B. FOSTER	
DESIGN-DETAILED 2		J. VILLEUX	
DESIGN-DETAILED 3			
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REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BUKER
 BUKER POND OUTLET
 LITCHFIELD
 KENNEBEC COUNTY
 SLAB DETAILS