

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## GRAFTON TOWNSHIP OXFORD COUNTY CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER ROUTE 26 FEDERAL AID PROJECT NO. 2231600 PROJECT LENGTH 0.10 mi. BRIDGE NO. 3524

Designed by:



500 Southborough Dr.  
Suite 105B  
South Portland, ME 04106

**SPECIFICATIONS**

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition 2017 with 2018 Interim Revisions.

**DESIGN LOADING**

Live Load ..... HL-93

**TRAFFIC DATA**

Current (2017) AADT ..... 820  
 Future (2037) AADT ..... 980  
 DHV - % of AADT ..... 17%  
 Design Hour Volume ..... 167  
 Heavy Trucks (% of AADT) ..... 18%  
 Heavy Trucks (% of DHV) ..... 11%  
 Directional Distribution (% of DHV) ..... 70%  
 18 kip Equivalent P 2.0 ..... 195  
 18 kip Equivalent P 2.5 ..... 186  
 Design Speed (mph) ..... 50

**MATERIALS**

Concrete:  
 Curb ..... Class "LP"  
 Deck & Integral Wearing Surface ..... Class "A"  
 All Other ..... Class "A"  
 Reinforcing Steel ..... ASTM A 615/A 615M, Grade 60

**BASIC DESIGN STRESSES**

Concrete Class "A" ..... f 'c = 4,000 psi  
 Concrete Class "LP" ..... f 'c = 5,000 psi  
 Reinforcing Steel ..... f y = 60,000 psi

**LIST OF DRAWINGS**

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**MAINTENANCE OF TRAFFIC**

Temporary one-lane bridge with temporary signals to maintain alternating one-way traffic.

<b>PROJECT LOCATION:</b>	Cambridge Bridge (#3524) over the Swift Cambridge River. Located 0.12 of a mile north of the north intersection of the Cambridge River Road. Bridge coordinates of Latitude 44°37'18.7" N Longitude 70°57'32.1" W
<b>PROGRAM AREA:</b>	Bridge Program
<b>OUTLINE OF WORK:</b>	Bridge Construction: Bridge deck replacement, substructure rehabilitation, and associated approach work.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

APPROVED: \_\_\_\_\_

DATE: 12-15-2020

COMMISSIONER: \_\_\_\_\_

CHIEF ENGINEER: \_\_\_\_\_

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

SIGNATURE: \_\_\_\_\_

11158

P.E. NUMBER

December 8, 2020

DATE

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

PROJECT INFORMATION

PROGRAM	BRIDGE
PROJECT MANAGER	JASON STETSON
DESIGNER	ROBERT S. BLUNT
CONSULTANT	VHB
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

WIN 22316.00

2231600

GRAFTON TOWNSHIP  
CAMBRIDGE BRIDGE

TITLE SHEET

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

SHEET NUMBER

1

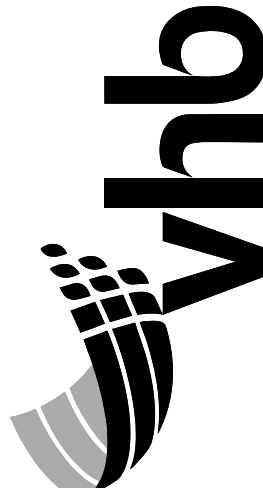
OF 26

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.10	Removing Existing Superstructure Property of Contractor	(54 CY)	1 LS
202.12	Removing Existing Structural Concrete		7 CY
202.202	Removing Pavement Surface		680 SY
203.20	Common Excavation		606 CY
304.10	Aggregate Subbase Course-Gravel		826 CY
403.2081	Hot Mix Asphalt - 12.5 mm (Polymer Modified)		150 TON
403.2131	Hot Mix Asphalt - 12.5 mm (base and intermediate course Polymer Modified)		260 TON
409.15	Bituminous Tack Coat, Applied		140 GAL
461.131	Temporary Pavement		110 TON
502.21	Structural Concrete, Abutments and Retaining Walls		7 CY
502.26	Structural Concrete Roadway and Sidewalk Slab on Steel Bridges	(41 CY)	1 LS
502.49	Structural Concrete Curbs and Sidewalks	(5 CY)	1 LS
503.12	Reinforcing Steel, Fabricated and Delivered		12,800 LB
503.13	Reinforcing Steel, Placing		12,800 LB
505.08	Shear Connectors	(420 EA)	1 LS
507.0821	Steel Bridge Railing, 3 Bar	(93 LF)	1 LS
507.0822	Steel Approach Railing, 3 Bar		4 EA
508.13	Sheet Waterproofing Membrane	(15 SY)	1 LS
510.10	Special Detour, 18 Foot Roadway Width Vehicular and Pedestrian Traffic Not Separated		1 LS
515.21	Protective Coating for Concrete Surfaces	(320 SY)	1 LS
518.50	Repair of Upward Facing Surfaces - to Reinforcing Steel < 8 inches		6 SF
518.60	Repair of Vertical Surfaces < 8 inches		70 SF
519.60	Expansion Device - Asphaltic Plug Joint		64 LF
520.233	Expansion Device - Silicone Coated Precompressed Foam		13 LF
524.301	Temporary Support - Lateral Bracing		1 LS
526.301	Temporary Concrete Barrier, Type I	(40 LF)	1 LS
527.34	Work Zone Crash Cushions		4 UNIT
605.09	6 inch Underdrain Type B		140 LF
605.10	6 inch Underdrain Outlet		20 LF
606.1301	3" W-Beam Guardrail - Mid-Way Splice-Single Faced		180 LF
606.1305	3" W-Beam Guardrail - Mid-Way Splice Flared Terminal		4 EA
606.1721	Bridge Transition - Type I		4 EA
606.353	Reflectorized Flexible Guardrail Marker		8 EA
606.356	Underdrain Delineator Post		1 EA
610.08	Plain Riprap		23 CY
613.319	Erosion Control Blanket		190 SY
615.07	Loam		140 CY
618.14	Seeding Method Number 2		11 UNIT
619.12	Mulch		11 UNIT
619.14	Erosion Control Mix		20 CY
620.58	Erosion Control Geotextile		24 SY
627.733	4" White or Yellow Painted Pavement Marking Line		4,400 LF
627.77	Removing Existing Pavement Marking		1,850 SF
627.78	Temporary 4" Painted Pavement Marking Line, White or Yellow		3,750 LF
629.05	Hand Labor, Straight Time		10 HR
631.12	All Purpose Excavator (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: Cambridge Bridge		1 LS
652.312	Type III Barricades		4 EA
652.33	Drum		50 EA
652.34	Cone		50 EA
652.35	Construction Signs		250 SF
652.361	Maintenance of Traffic Control Devices		1 LS
652.38	Flaggers		240 HR
652.47	Temporary Portable Rumble Strip		2 GP
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 Right of Way Map.
- 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.
- Protective Coating for Concrete Surfaces shall be applied to the following:  
All exposed surfaces of concrete curbs,  
Fascia down to the drip notch,  
Concrete wearing surfaces,  
Exposed faces of the abutments and wingwalls and to one foot below the top of wingwalls on the back side.
- 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:
  - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
  - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
  - 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.
- 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.
- Do not excavate for Aggregate Subbase Course Gravel 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.
- Plastic end caps shall be used on all dead-end 6-inch Type B underdrain.
- Place loam 2 inches deep on all new or reconstructed side slopes 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 Item No. 619.14, Erosion Control Mix.
- Place a 24-in. wide strip of Temporary Erosion Control Blanket on the side slopes along the top of the riprap and behind the wingwalls.
- Guardrail end treatments shall be installed concurrently with the placement of each section of beam guardrail.
- All existing guardrail shall be removed and become the property of the Contractor. Removal and disposal shall be considered incidental to the guardrail items.
- Two Reflectorized Flexible G.R. Markers (Item 606.353) shall be installed at each guardrail end.

- The steel portions of the existing bridge may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of preparing the specified elements of the existing bridge. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the portions of the existing bridge are removed, the Contractor is solely responsible for the care, custody and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling or disposal of the bridge components, including lead-coated steel. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Payment of all labor, materials, equipment and other costs required to remove and dispose of the portions of the existing bridge will be considered incidental to the removal pay items.
- 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 No. 304.10, Aggregate Subbase Course - Gravel.
- When removing existing bridge drains, the Contractor shall remove the support bar 2' from the beam web. Removal of bridge drains and drain supports, including the connection to the existing beams, are incidental to item 202.10, Removing Existing Superstructure Property of Contractor.
- Temporary pavement ramps shall be constructed to meet the following criteria:  
For roadways with speed limits equaling or exceeding 50 mph, temporary ramps shall be constructed at a length of eight feet per inch of transition depth. For roadways with speed limits less than 50 mph, temporary ramps shall be constructed at a length of four feet per inch of transition depth. Materials, placement, maintenance, and removal shall be incidental to contract items.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2231600		WIN		022316.00		BRIDGE NO. 3524		BRIDGE PLANS		
														
PROJ. MANAGER	JASON STETSON	BY	DATE	DESIGN-DETAILED	WEB	DESIGN-REVIEWED	ONE	DESIGN-DETAILED2	DESIGN-DETAILED3	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
			12/8/20											
CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER				OXFORD COUNTY				ESTIMATED QUANTITIES AND NOTES						
GRAFTON TOWNSHIP ME				SHEET NUMBER										
				2										
				OF 26										

Date: 12/18/2020

Username: PDonovan

Division: BRIDGE

Filename: 003\_Hyw\_Plan.dgn

Item 605.09 - 6" Underdrain Type B

Station	Offset	Quantity (LF)
392+50 to 393+90	Rt	140.0

Item 605.10 - 6" Underdrain Outlet

Station	Offset	Quantity (LF)
393+90 to 394+10	Rt	20.0

Item 606.130I - 3" W-Beam Gaurdail

Station	Offset	Quantity (LF)
394+76 to 395+51	Lt	75.0
392+71 to 393+71	Rt	100.0

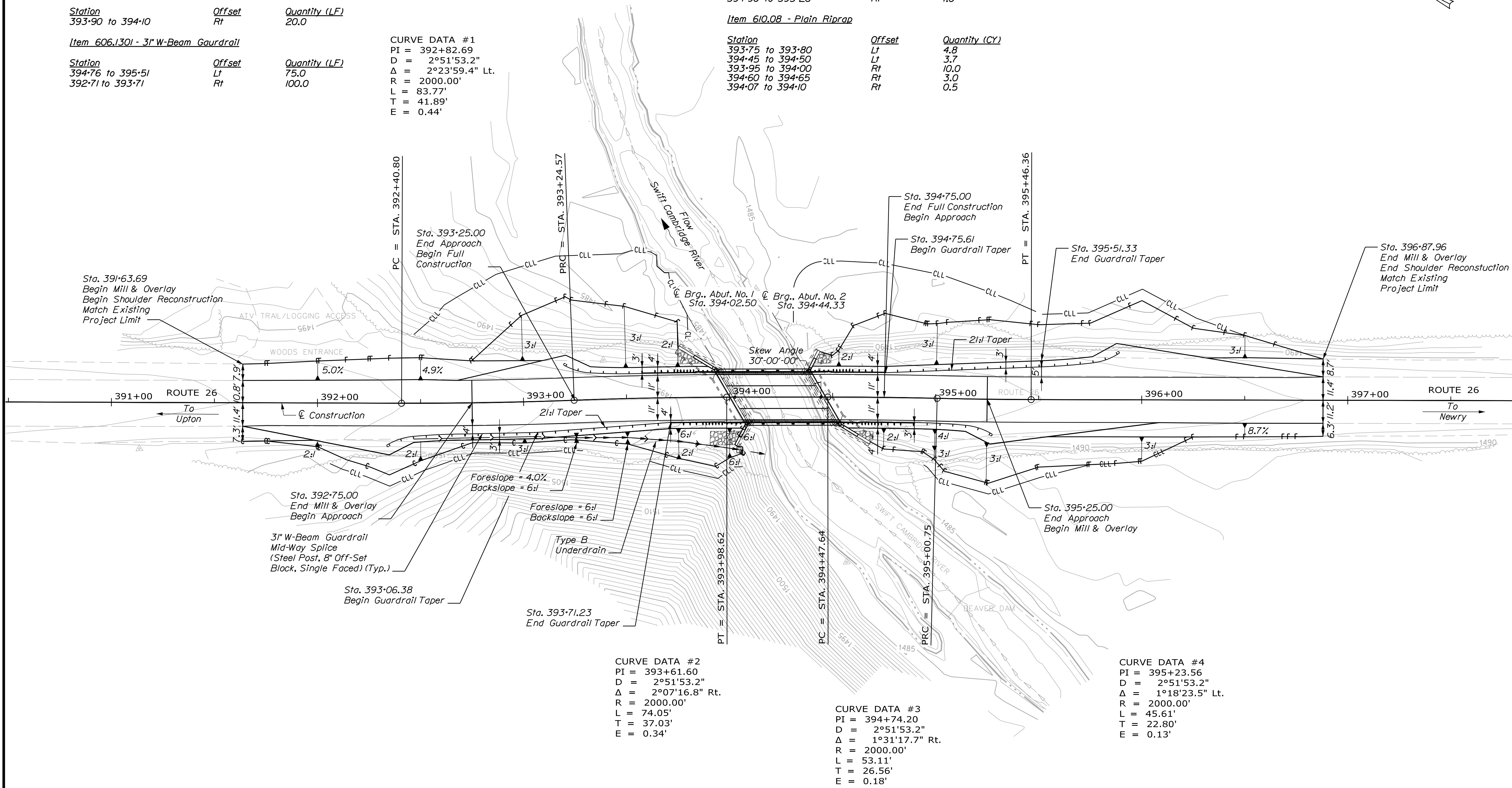
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 PI = 392+82.69  
 D = 2°51'53.2"  
 Δ = 2°23'59.4" Lt.  
 R = 2000.00'  
 L = 83.77'  
 T = 41.89'  
 E = 0.44'

Item 606.130S - 3" W-Beam Gaurdail - Midway Splice Flared Terminal

Station	Offset	Quantity (EA)
393+21 to 393+58	Lt	1.0
395+51 to 395+88	Lt	1.0
392+35 to 392+71	Rt	1.0
394+90 to 395+26	Rt	1.0

Item 610.08 - Plain Riprap

Station	Offset	Quantity (CY)
393+75 to 393+80	Lt	4.8
394+45 to 394+50	Lt	3.7
393+95 to 394+00	Rt	10.0
394+60 to 394+65	Rt	3.0
394+07 to 394+10	Rt	0.5

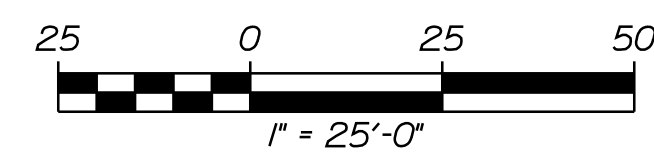


CURVE DATA #2  
 PI = 393+61.60  
 D = 2°51'53.2"  
 Δ = 2°07'16.8" Rt.  
 R = 2000.00'  
 L = 74.05'  
 T = 37.03'  
 E = 0.34'

CURVE DATA #3  
 PI = 394+74.20  
 D = 2°51'53.2"  
 Δ = 1°31'17.7" Rt.  
 R = 2000.00'  
 L = 53.11'  
 T = 26.56'  
 E = 0.18'

CURVE DATA #4  
 PI = 395+23.56  
 D = 2°51'53.2"  
 Δ = 1°18'23.5" Lt.  
 R = 2000.00'  
 L = 45.61'  
 T = 22.80'  
 E = 0.13'

PLAN



STATE OF MAINE  
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 2231600  
 WIN  
 022316.00  
 BRIDGE NO. 3524  
 BRIDGE PLANS



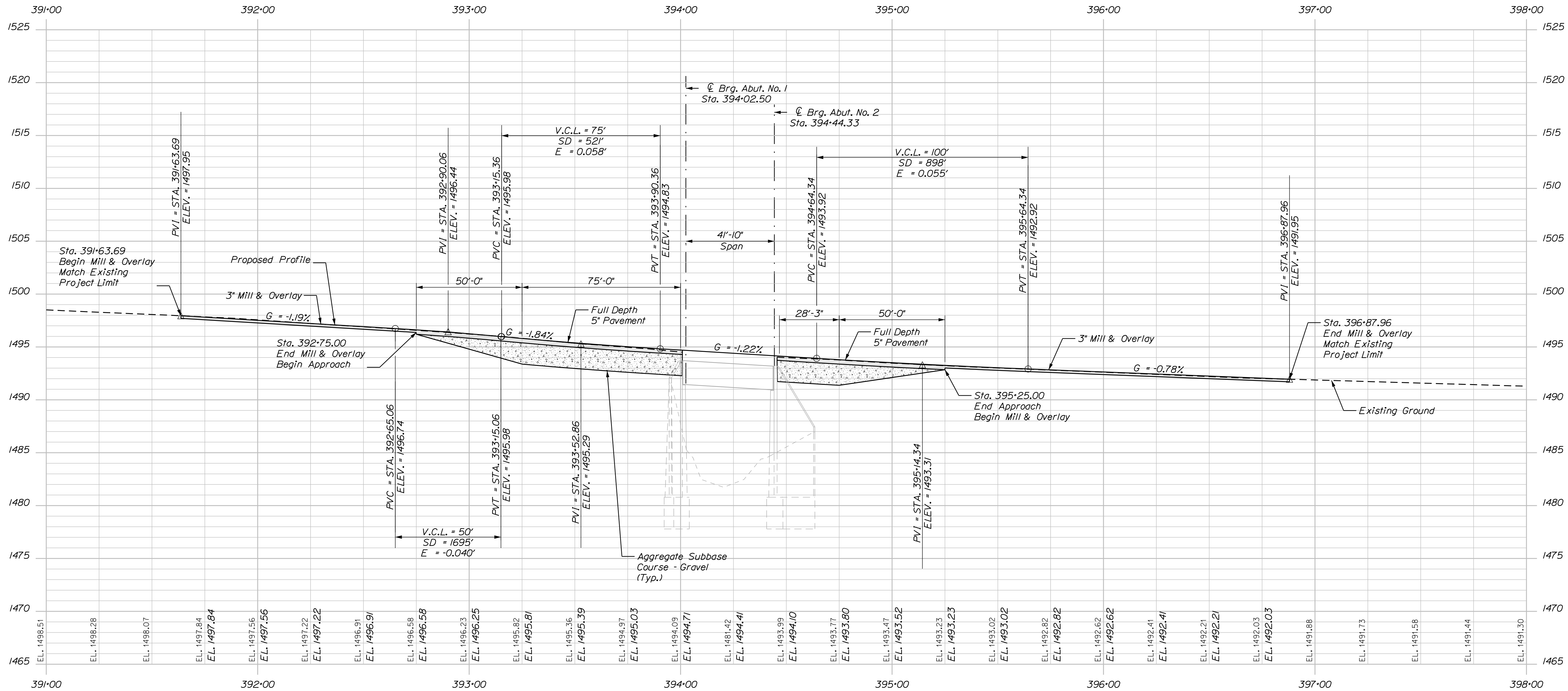
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CHECKED-REVIEWED	ONE		12/18/20	RSB
DESIGN-DETAILED2				
DESIGN-DETAILED3				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

CAMBRIDGE BRIDGE OVER  
 SWIFT CAMBRIDGE RIVER  
 OXFORD COUNTY  
 GRAFTON TOWNSHIP ME  
 GENERAL PLAN

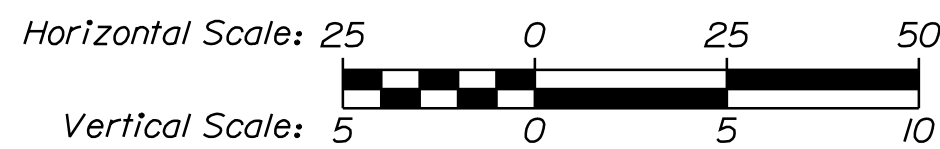
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3

OF 26



**PROFILE**



PROJ. MANAGER	DATE	BY
JASON STETSON	12/8/20	DPD
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CHECKED-REVIEWED		
DESIGN-REVIEWED		
DESIGN-DETAILED2		
DESIGN-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

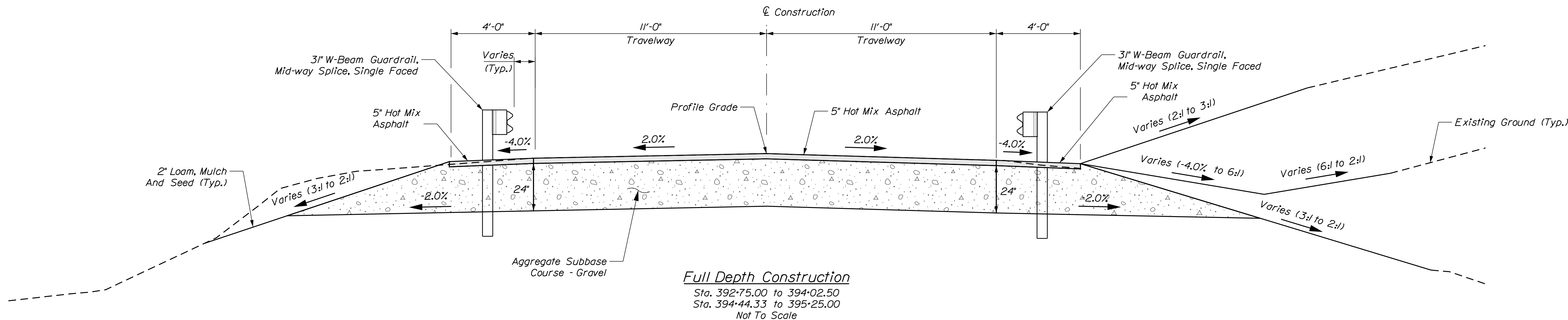
CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
**PROFILE**

Date: 12/18/2020

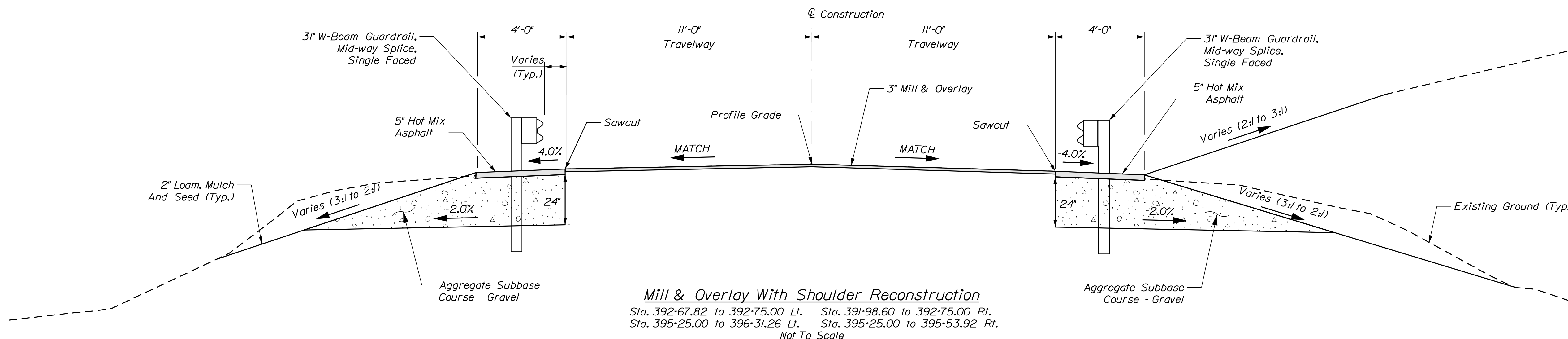
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Division: BRIDGE

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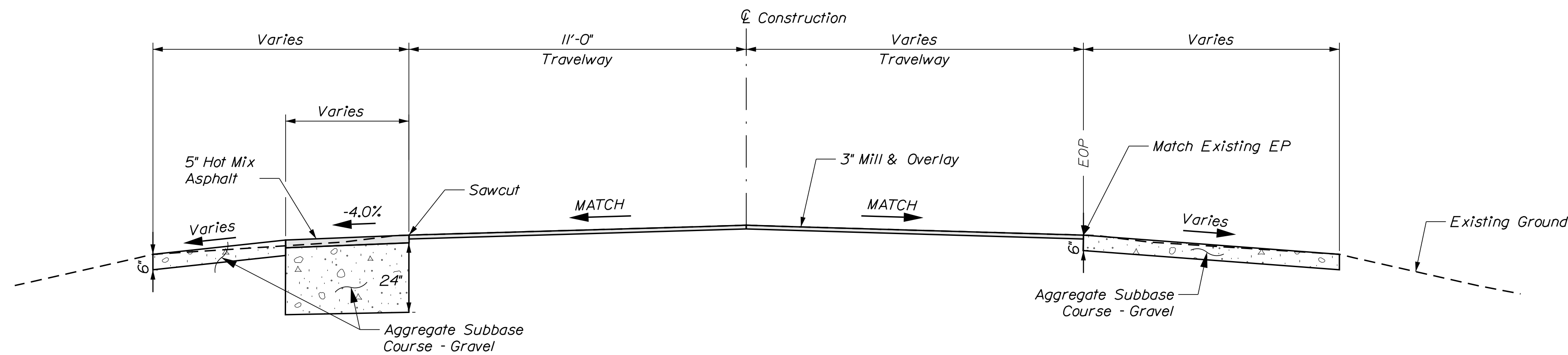


**Full Depth Construction**  
 Sta. 392+75.00 to 394+02.50  
 Sta. 394+44.33 to 395+25.00  
 Not To Scale



**Mill & Overlay With Shoulder Reconstruction**  
 Sta. 392+67.82 to 392+75.00 Lt. Sta. 391+98.60 to 392+75.00 Rt.  
 Sta. 395+25.00 to 396+31.26 Lt. Sta. 395+25.00 to 395+53.92 Rt.  
 Not To Scale

US ROUTE 26				
SUPERELEVATION TABLE				
LT SHLDR %	LT TW %	STATION	RT TW %	RT SHLDR %
MATCH	MATCH	392+75	MATCH	MATCH
-4.0	-2.0	392+50	-2.0	-4.0
-4.0	-2.0	393+50	-2.0	-4.0
-2.0	-2.0	393+93	-2.0	-2.0
-	-	394+00	-2.0	-2.0
BRIDGE				
-2.0	-2.0	394+50	-	-
-2.0	-2.0	394+53	-2.0	-2.0
-4.0	-2.0	395+00	-2.0	-4.0
-4.0	-2.0	395+00	-2.0	-4.0
MATCH	MATCH	395+25	MATCH	MATCH
		END		



**Paved Shoulder Reconstruction**  
 Sta. 396+31.26 to 396+87.96 Lt. Sta. 391+63.69 to 391+98.60 Rt.  
 Sta. 395+53.92 to 396+08.51 Rt.  
 Not To Scale

**Existing Shoulder Reconstruction**  
 Sta. 391+63.69 to 392+67.82 Lt. Sta. 396+08.51 to 396+87.96 Rt.  
 Not To Scale

STATE OF MAINE  
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 2231600  
 BRIDGE NO. 3524  
 WIN  
 022316.00  
 BRIDGE PLANS



PROJ. MANAGER	DATE	BY
JASON STETSON	12/18/20	DPD
DESIGN-DETAILED	12/18/20	RSB
CHECKED-REVIEWED		
DESIGN-DETAILED 01		
DESIGN-DETAILED 02		
DESIGN-DETAILED 03		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
 OXFORD COUNTY  
 GRAFTON TOWNSHIP ME  
 APPROACH  
 TYPICAL SECTIONS

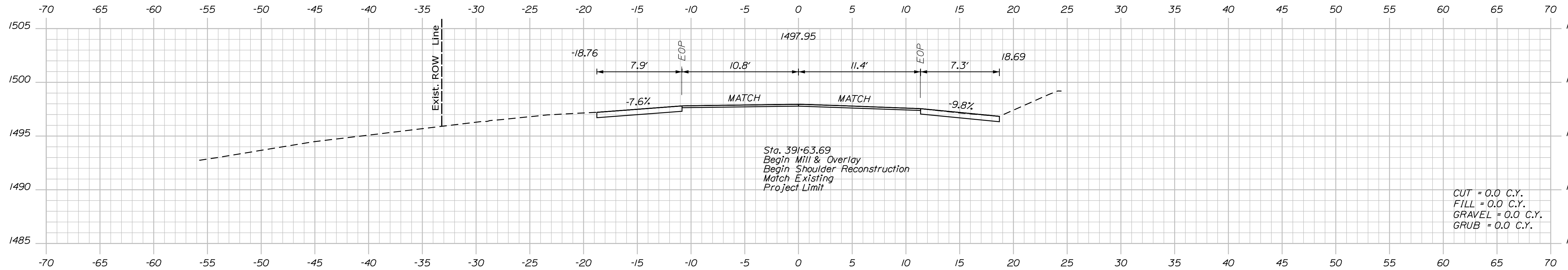
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 OF 26

Date: 12/8/2020

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Division: BRIDGE

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391+63.69

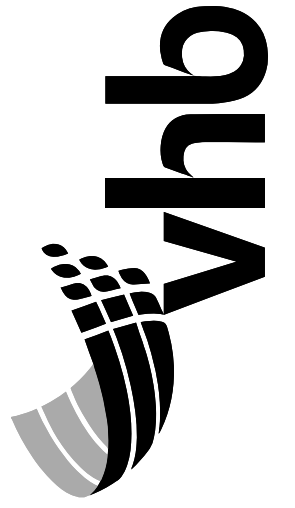
391+50.00

391+00.00

Sta. 391+63.69  
 Begin Mill & Overlay  
 Begin Shoulder Reconstruction  
 Match Existing  
 Project Limit

CUT = 0.0 C.Y.  
 FILL = 0.0 C.Y.  
 GRAVEL = 0.0 C.Y.  
 GRUB = 0.0 C.Y.

STATE OF MAINE  
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 2231600  
 WIN  
 022316.00  
 BRIDGE NO. 3524



PROJ. MANAGER	DATE	BY
JASON STETSON	12/8/20	
DESIGN-DETAILED		DPD
CHECKED-REVIEWED		RSB
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER  
 SWIFT CAMBRIDGE RIVER  
 OXFORD COUNTY  
 GRAFTON TOWNSHIP ME  
 CROSS SECTIONS

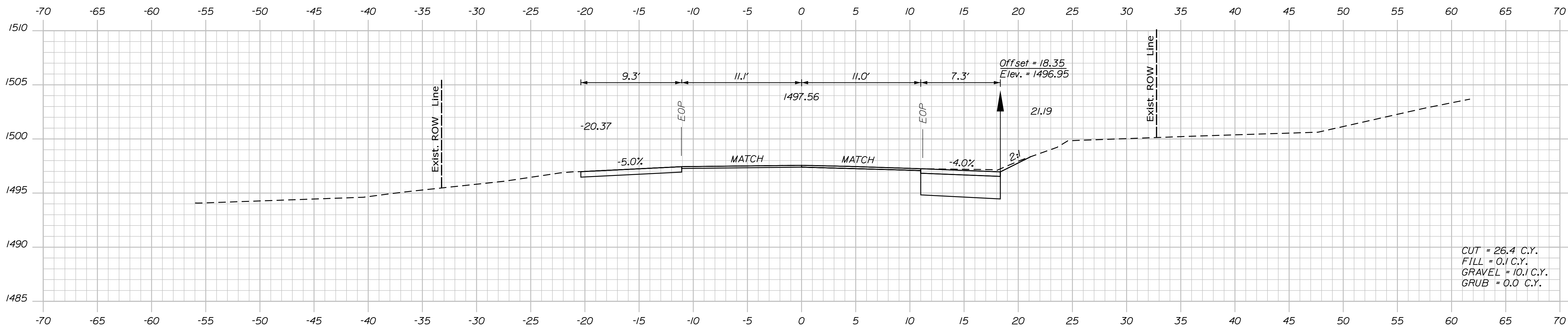
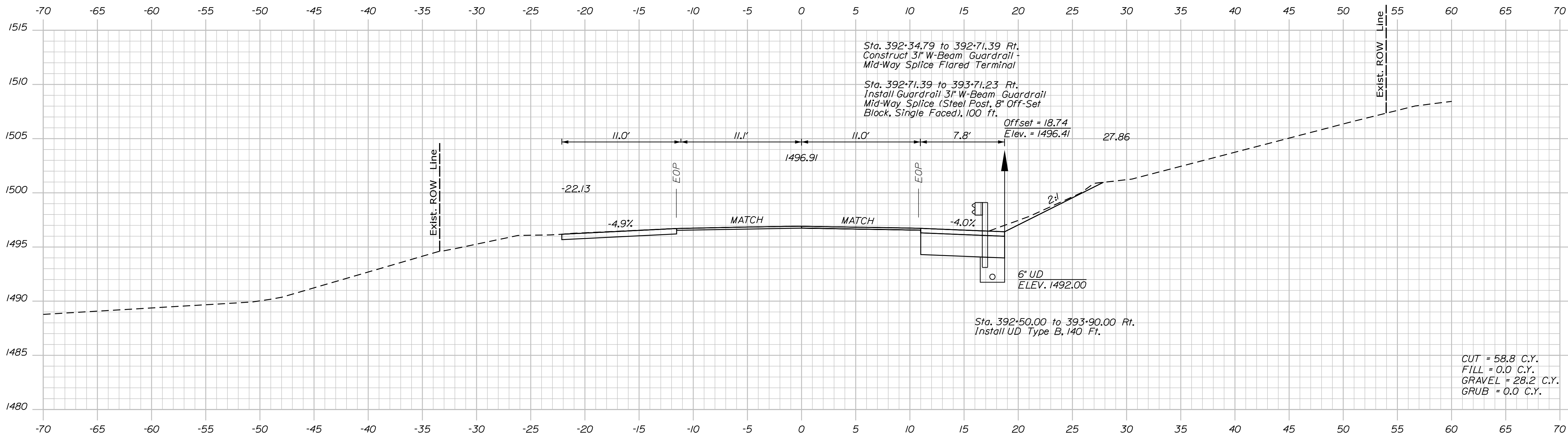
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 OF 26

Date: 12/18/2020

Username: PDonovan

Division: BRIDGE

Filename: 007\_Xsect\_02.dgn



CUT = 58.8 C.Y.  
 FILL = 0.0 C.Y.  
 GRAVEL = 28.2 C.Y.  
 GRUB = 0.0 C.Y.

CUT = 26.4 C.Y.  
 FILL = 0.1 C.Y.  
 GRAVEL = 10.1 C.Y.  
 GRUB = 0.0 C.Y.



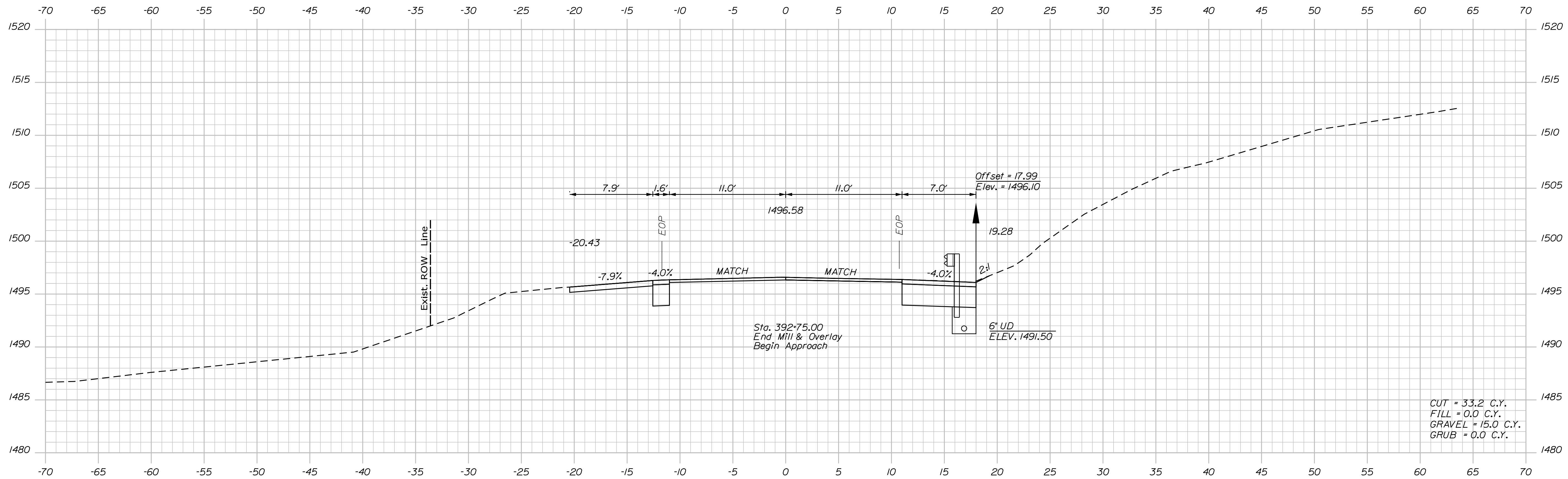
PROJ. MANAGER	DATE	BY
JASON STETSON	12/18/20	DPD
DESIGN-DETAILED	12/18/20	RSB
CHECKED-REVIEWED		
DESIGN-DETAILED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER  
 SWIFT CAMBRIDGE RIVER  
 OXFORD COUNTY  
 GRAFTON TOWNSHIP ME  
 CROSS SECTIONS

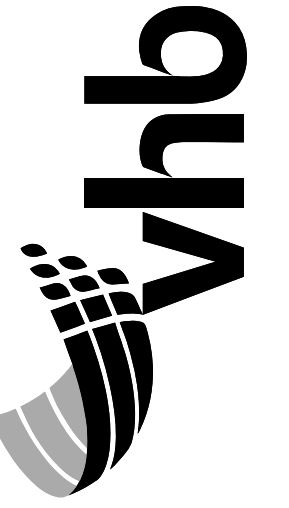
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7

OF 26



392+75.00



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 3524  
WIN  
022316.00  
2231600  
BRIDGE PLANS

PROJ. MANAGER	JASON STETSON	DATE
DESIGN-DETAILED	WEB	12/8/20
CHECKED-REVIEWED	ONE	12/8/20
DESIGN-DETAILED2		
DESIGN-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER  
SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME

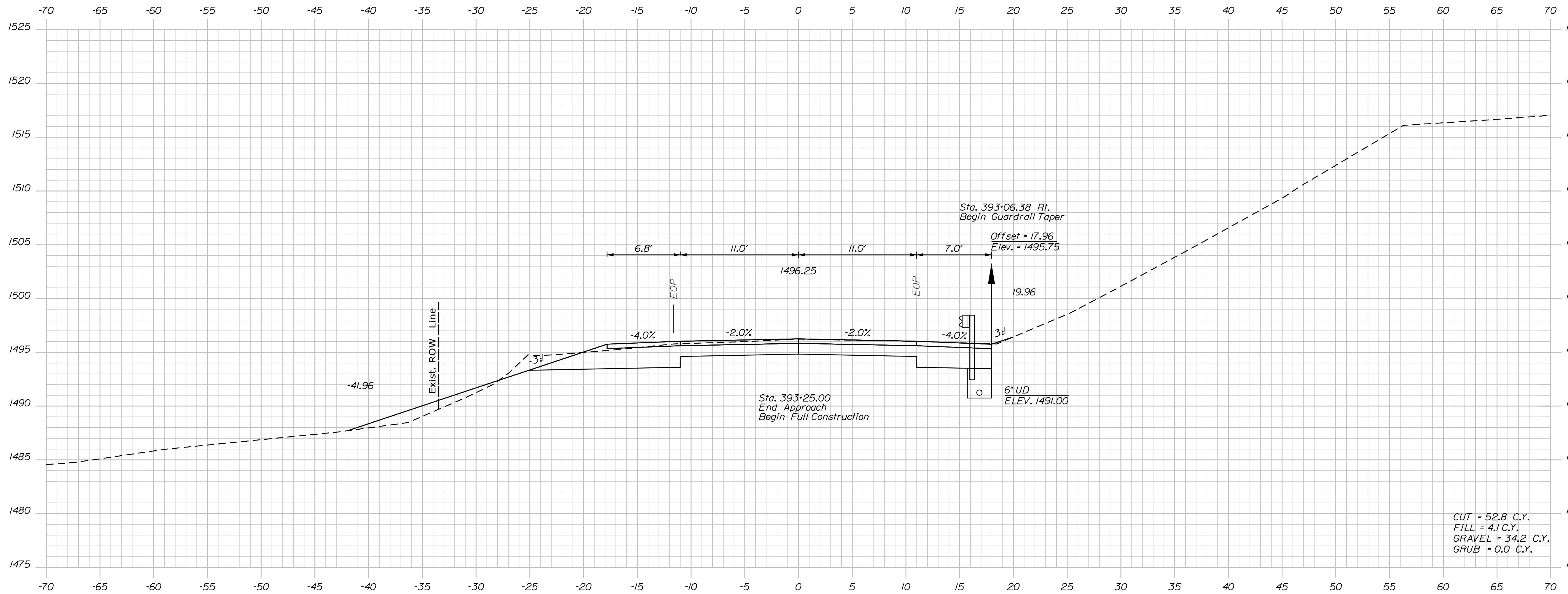
SHEET NUMBER

8

OF 26

Sta. 392+75.00

CROSS SECTIONS



393+00.00

CUT = 52.8 C.Y.  
 FILL = 4.1 C.Y.  
 GRAVEL = 34.2 C.Y.  
 GRUB = 0.0 C.Y.

STATE OF MAINE  
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 2231600  
 BRIDGE NO. 3524 WIN 022316.00  
 BRIDGE PLANS



PROJ. MANAGER	DATE
JASON STETSON	12/18/20
DESIGN-DETAILED	DPD
CHECKED-REVIEWED	RSB
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
 OXFORD COUNTY  
 GRAFTON TOWNSHIP ME  
 CROSS SECTIONS

SHEET NUMBER

9

OF 26

Sta. 393+00.00

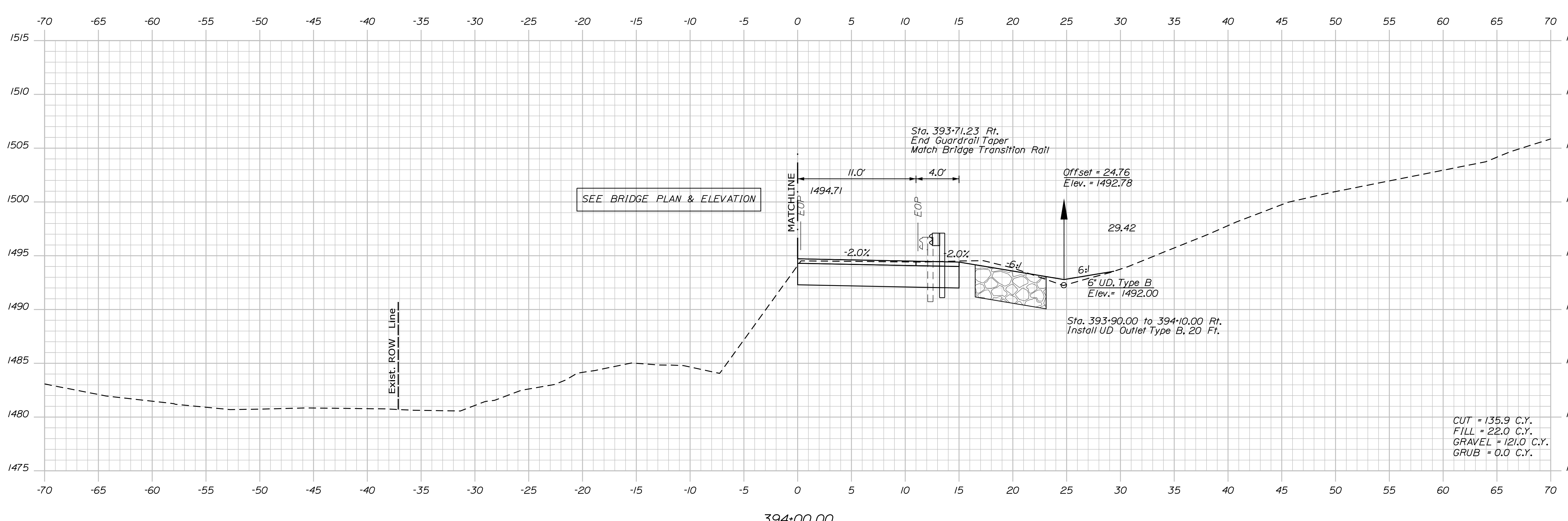
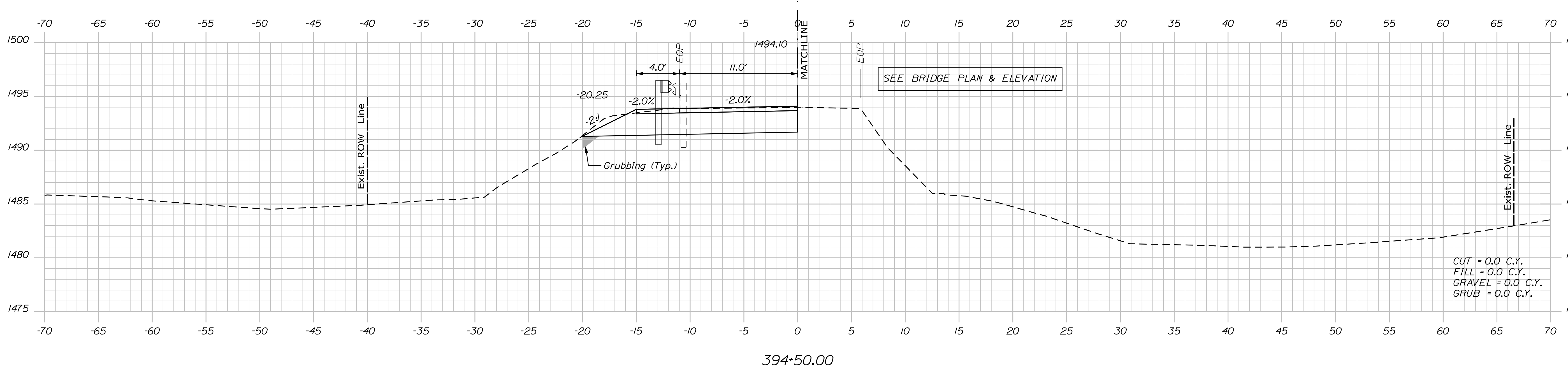


Date: 12/18/2020

Username: PDonovan

Division: BRIDGE

Filename: 011\_Xsect\_06.dgn



PROJ. MANAGER	DATE
JASON STETSON	12/18/20
DESIGN-DETAILED	BY
CHECKED-REVIEWED	DATE
DESIGN-DETAILED2	DATE
DESIGN-DETAILED3	DATE
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
CROSS SECTIONS

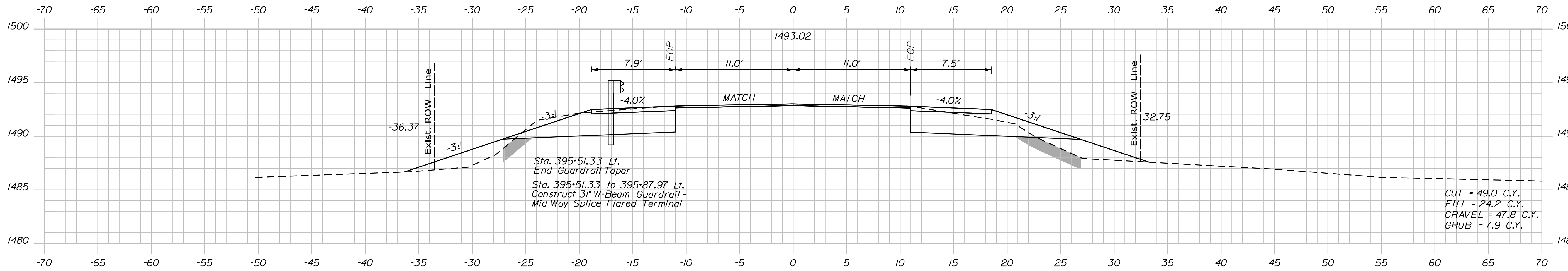
SHEET NUMBER  
**11**  
OF 26

Date: 12/18/2020

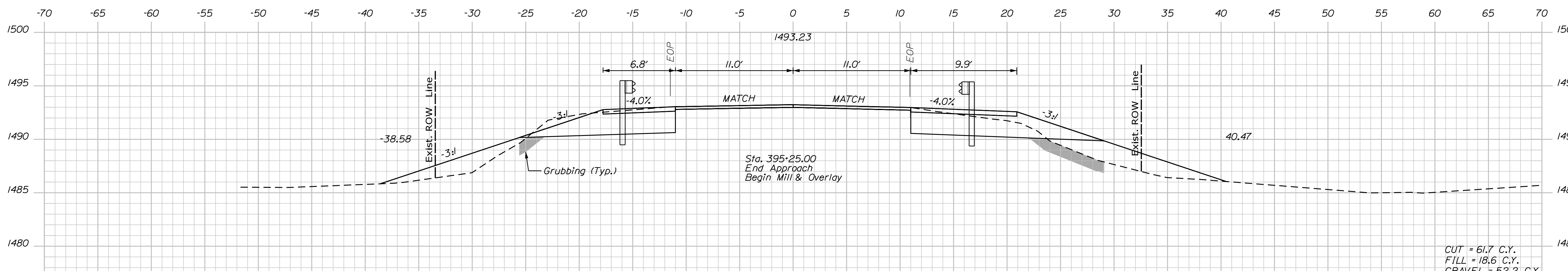
Username: PDonovan

Division: BRIDGE

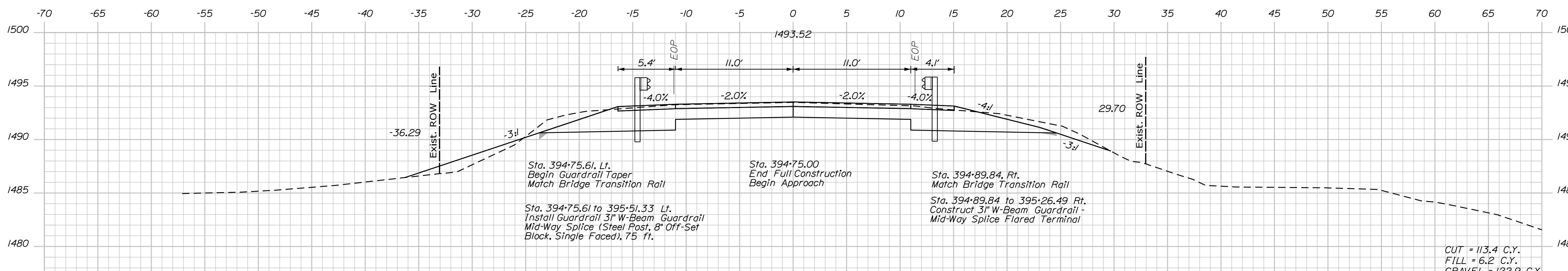
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395+50.00



395+25.00



395+00.00

CUT = 113.4 C.Y.  
FILL = 6.2 C.Y.  
GRAVEL = 122.9 C.Y.  
GRUB = 1.3 C.Y.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2231600  
WIN  
022316.00  
BRIDGE NO. 3524



PROJ. MANAGER	DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	DESIGN-DETAILED	REVISIONS	REVISIONS	REVISIONS	FIELD CHANGES
JASON STETSON	12/18/20									

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
CROSS SECTIONS

SHEET NUMBER  
12  
OF 26

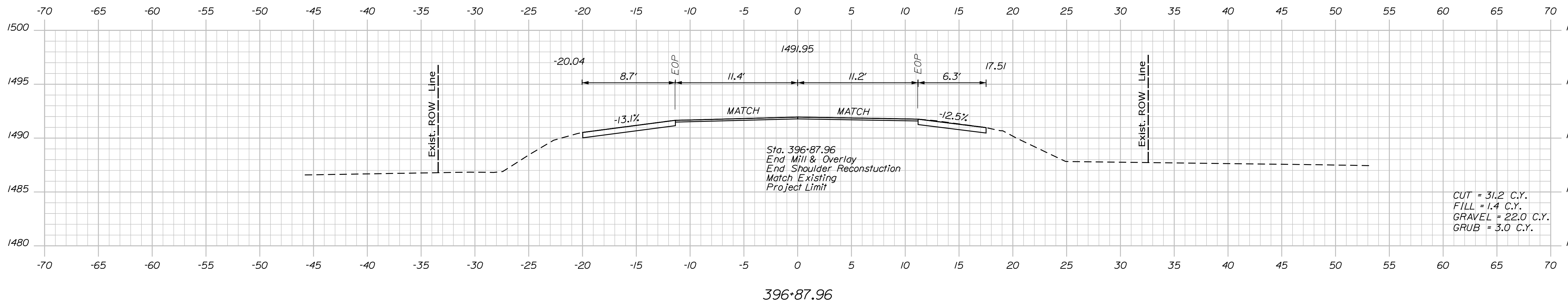
Sta. 395+00.00 to Sta. 395+50.00

Date: 12/8/2020

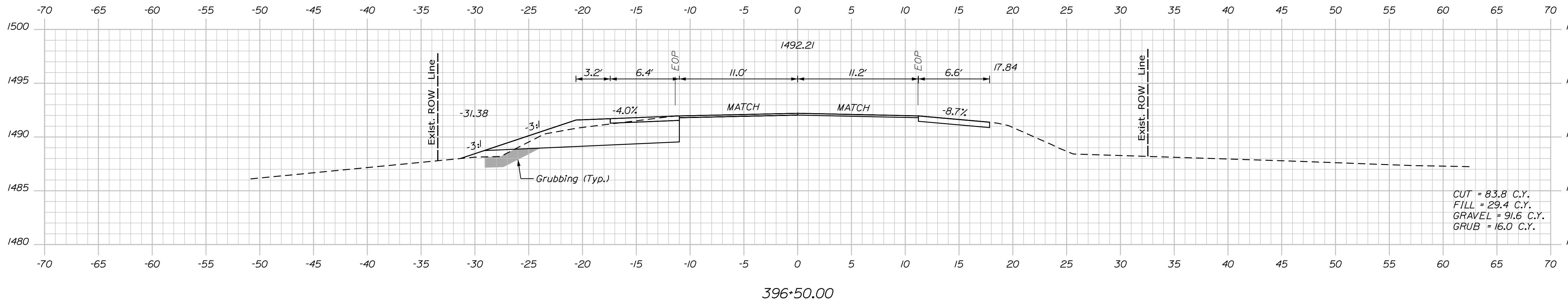
Username: PDonovan

Division: BRIDGE

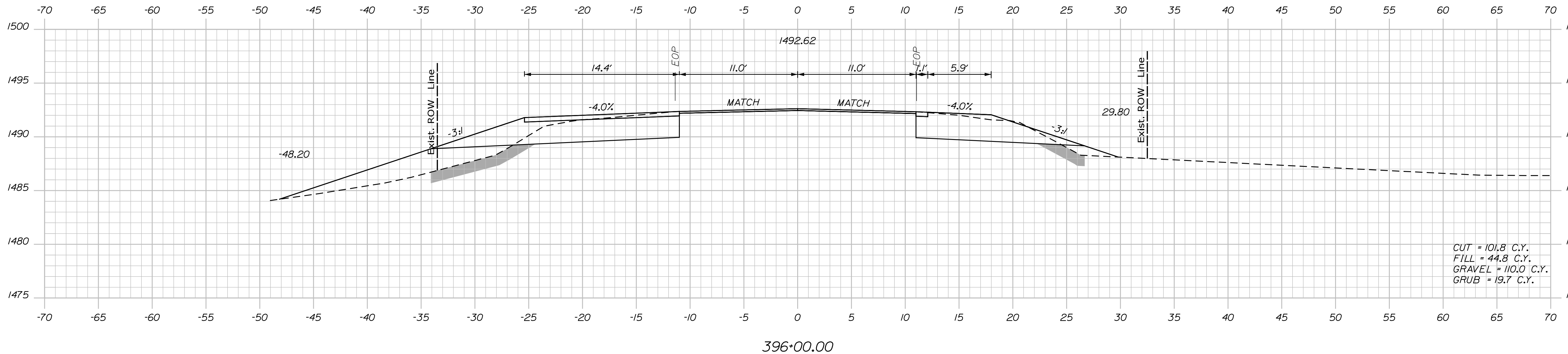
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396+87.96



396+50.00



396+00.00

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 2231600  
 WIN  
 022316.00  
 BRIDGE NO. 3524



PROJ. MANAGER	DATE	BY
JASON STETSON	12/8/20	
DESIGN-DETAILED	12/8/20	
CHECKED-REVIEWED		
DESIGN-DETAILED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER  
 SWIFT CAMBRIDGE RIVER  
 OXFORD COUNTY  
 GRAFTON TOWNSHIP ME  
 CROSS SECTIONS

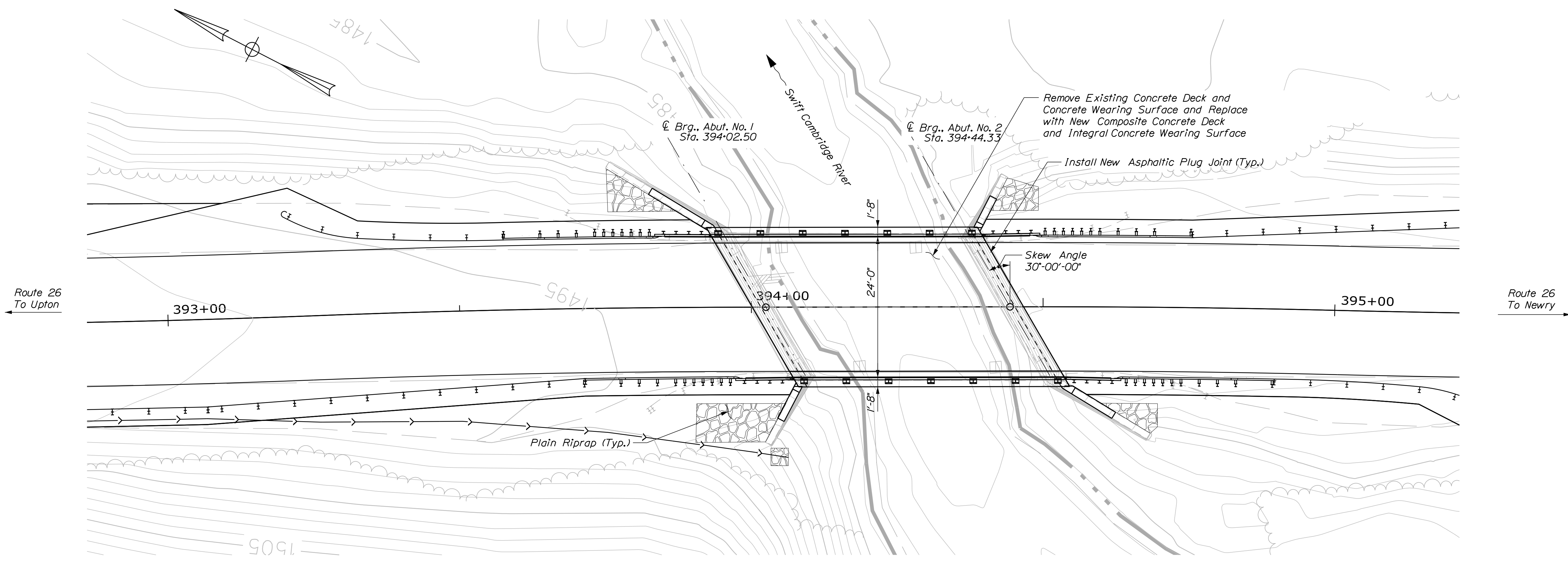
SHEET NUMBER  
 13  
 OF 26

Date: 12/18/2020

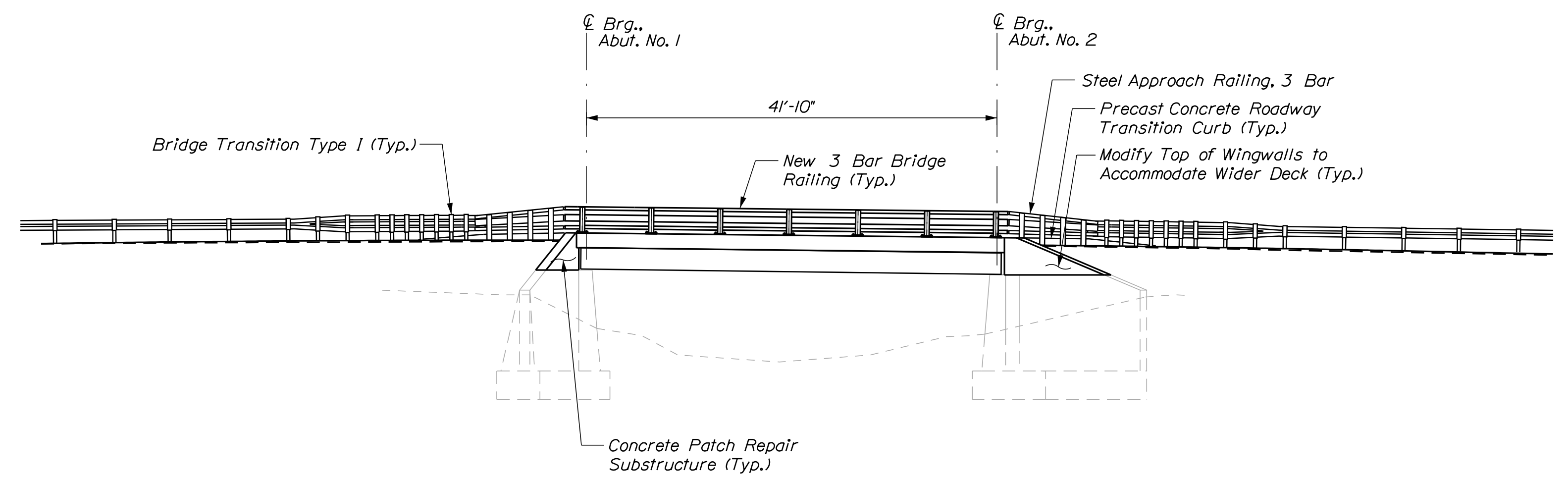
Username: PDonovan

Division: BRIDGE

Filename: 014\_Plan\_Elev.dgn



**PLAN**  
Scale: 1" = 10'-0"



**ELEVATION**  
Scale: 1" = 10'-0"

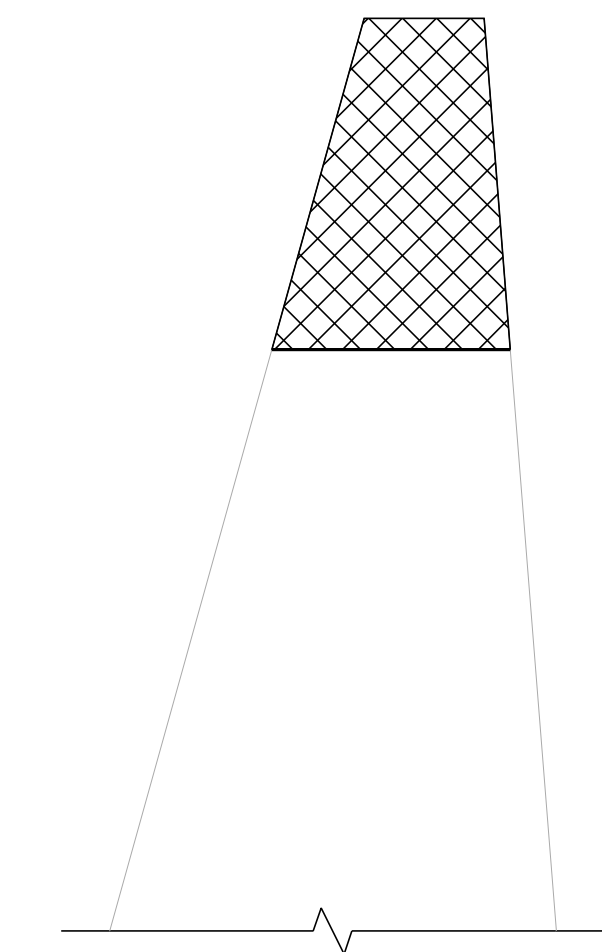
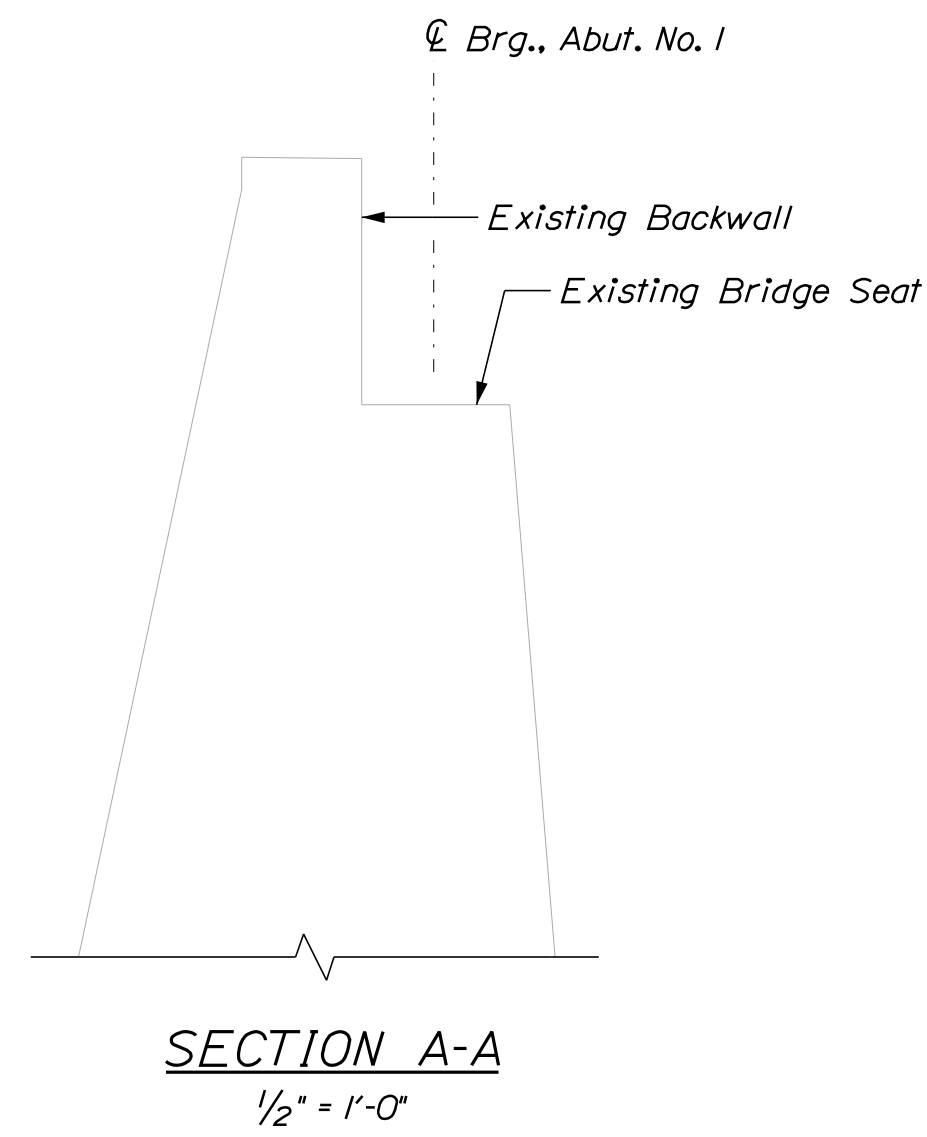
STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2231600  
BRIDGE NO. 3524 WIN 022316.00  
BRIDGE PLANS



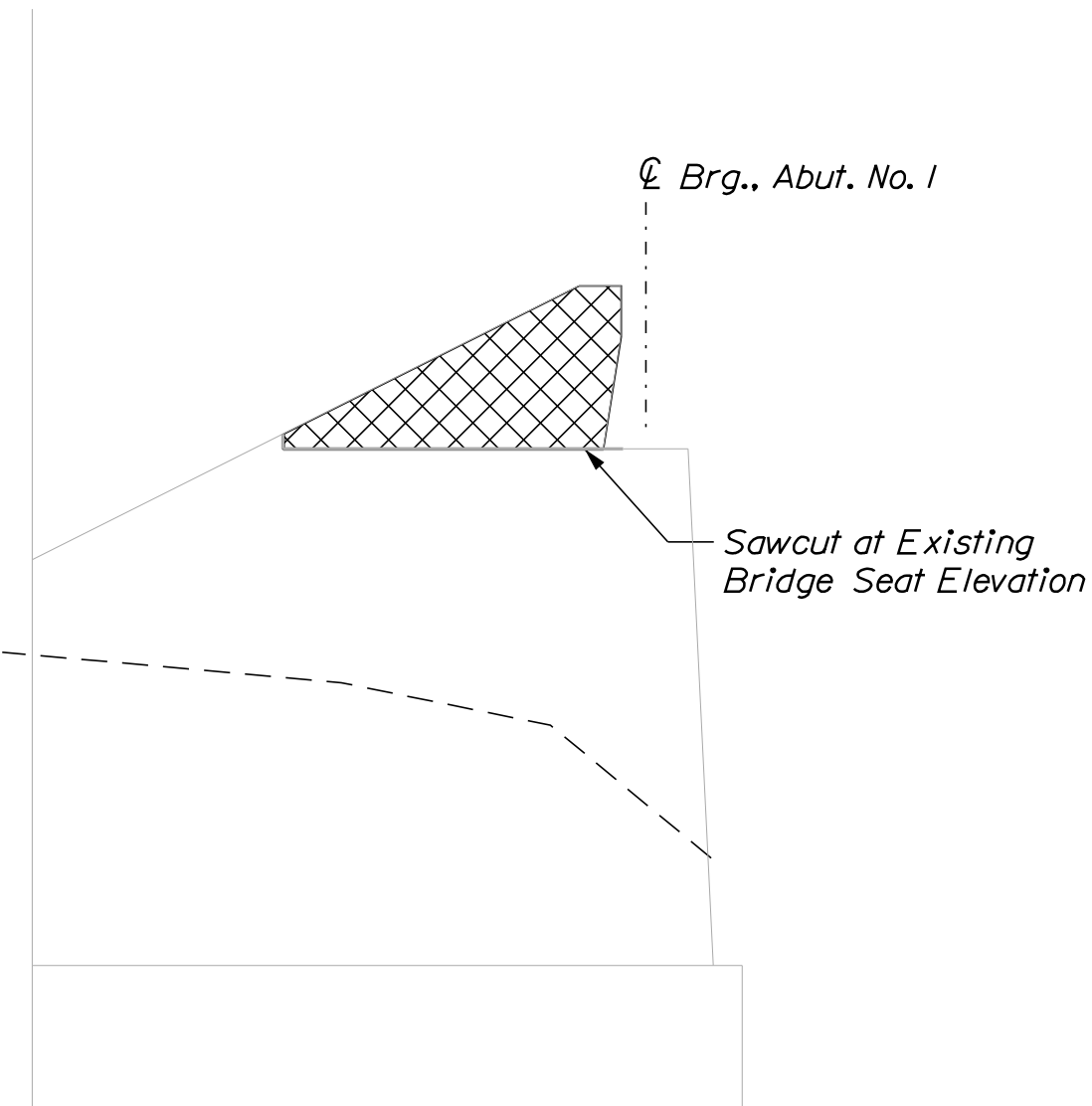
PROJ. MANAGER	JASON STETSON	DATE
DESIGN-DETAILED	WEB	12/18/20
CHECKED-REVIEWED	ONE	12/18/20
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
**BRIDGE PLAN AND ELEVATION**

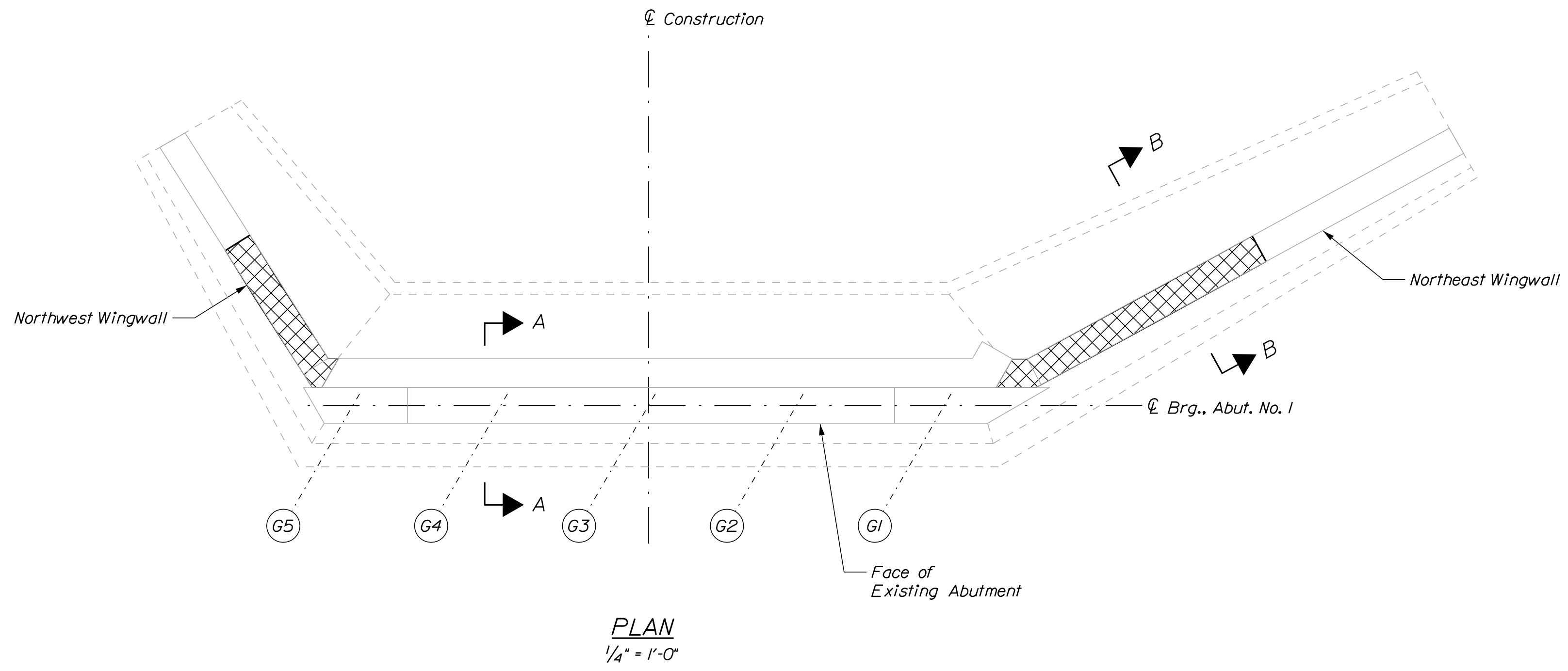
SHEET NUMBER  
**14**  
OF 26



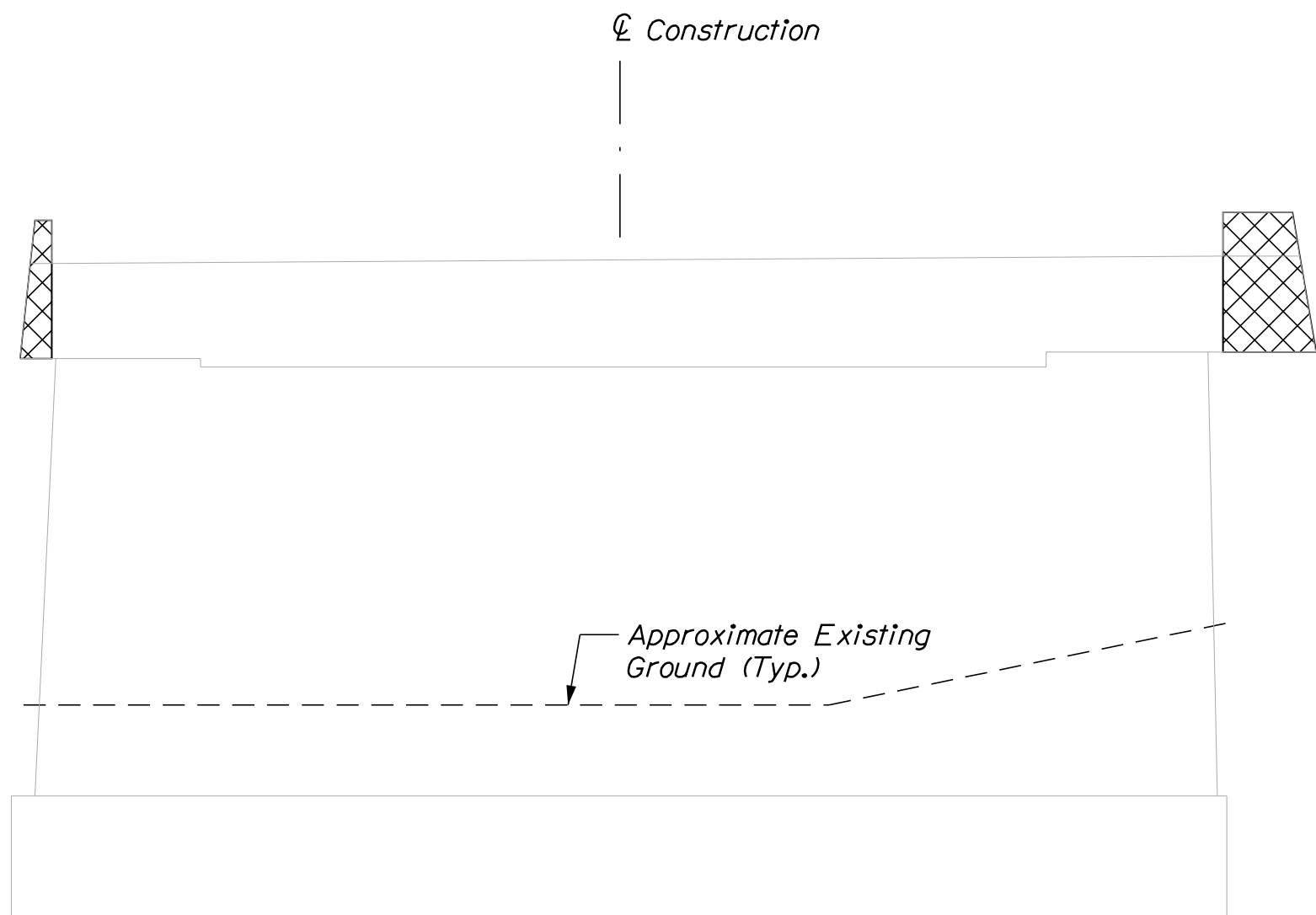
**SECTION B-B**  
1/2" = 1'-0"



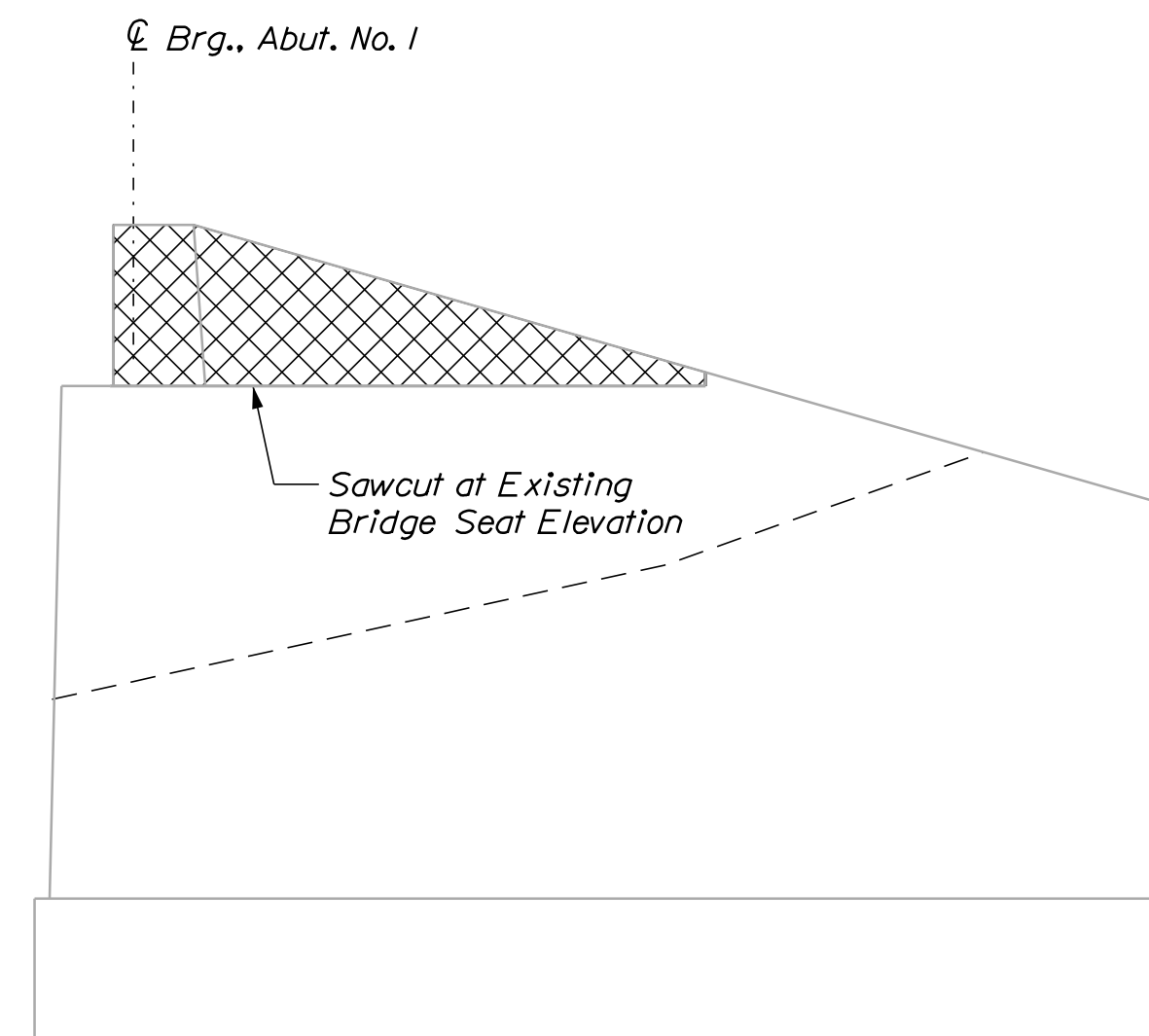
**NORTHWEST WINGWALL ELEVATION**  
1/4" = 1'-0"



**PLAN**  
1/4" = 1'-0"



**ABUTMENT I ELEVATION**  
1/4" = 1'-0"




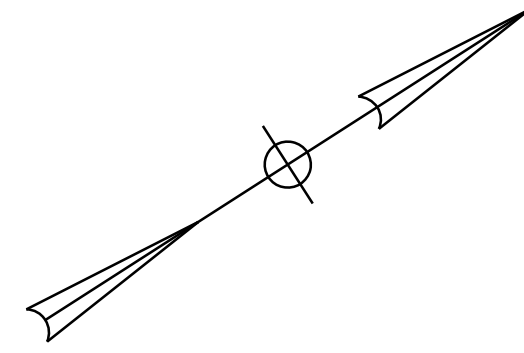
**NORTHEAST WINGWALL ELEVATION**  
1/4" = 1'-0"

**NOTE**

1. Existing concrete at abutments and wingwalls to be removed as shown on the Plans shall be sawcut one-inch deep at the removal limits prior to removal. All costs associated with this work shall be incidental to related Contract items.

**KEY**

 = Limit of Full Depth Concrete Removal



Date: 12/18/2020

Username: PDonovan

Division: BRIDGE

Filename: 015\_Abut1\_Rem.dgn

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2231600  
BRIDGE NO. 3524 WIN 022316.00  
BRIDGE PLANS



PROJ. MANAGER	JASON	STETSON	DATE
DESIGN-DETAILED	WEB	DPD	12/18/20
CHECKED-REVIEWED	ONE	RSB	12/18/20
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

CAMBRIDGE BRIDGE OVER  
SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
**ABUTMENT NO. 1 REMOVAL**

SHEET NUMBER

15

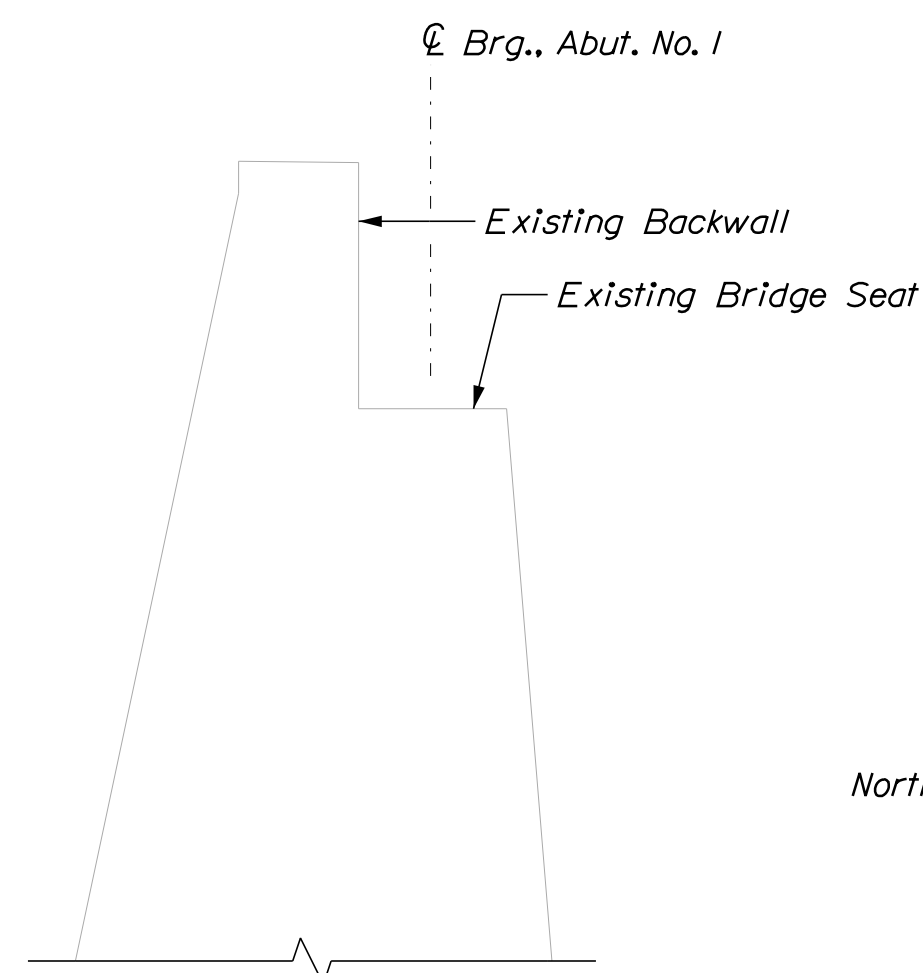
OF 26

Date: 12/18/2020

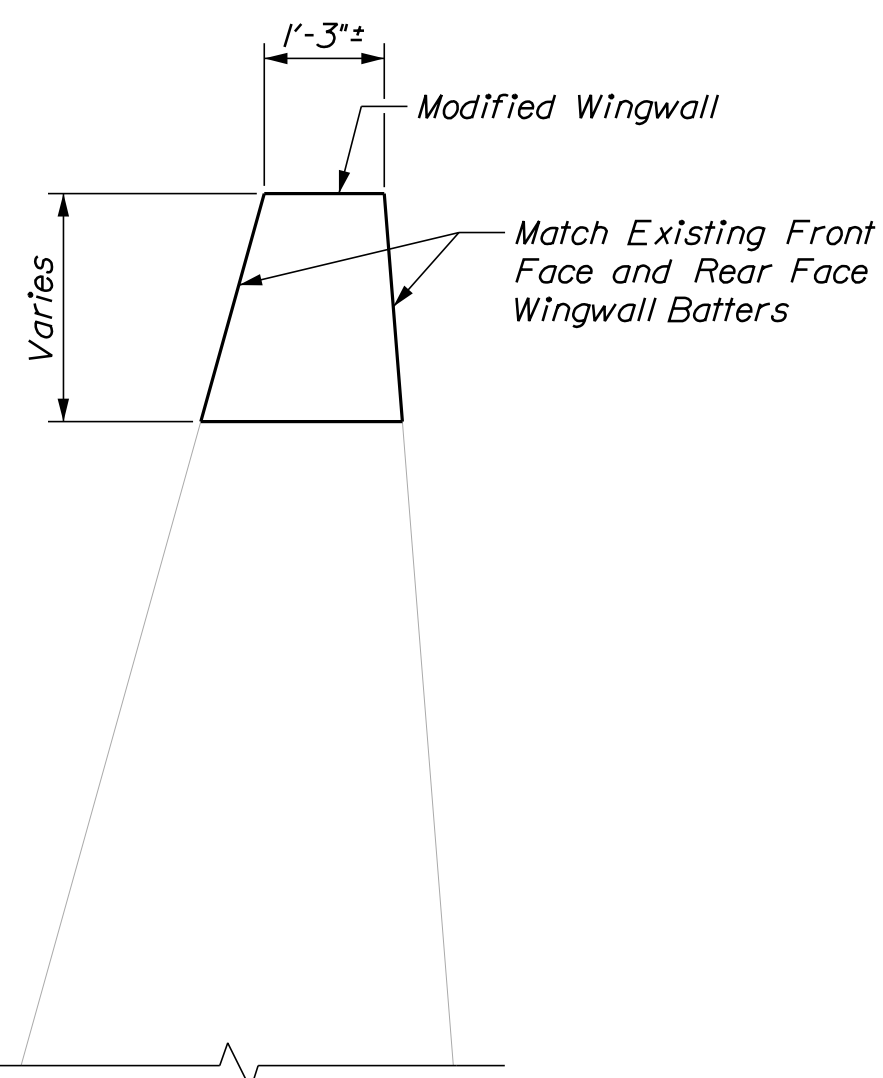
Username: PDonovan

Division: BRIDGE

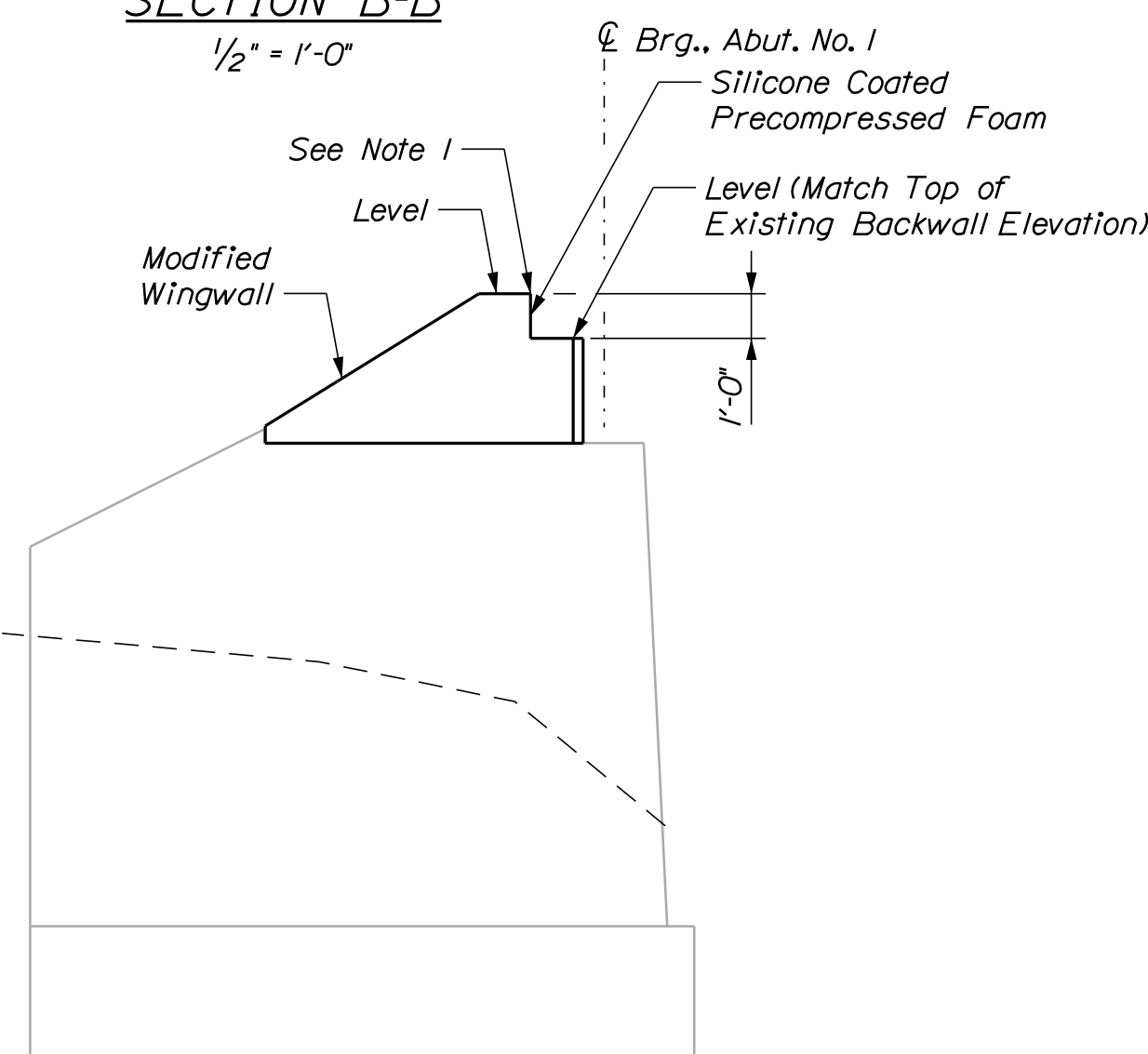
Filename: 016\_Abut1\_Repair.dgn



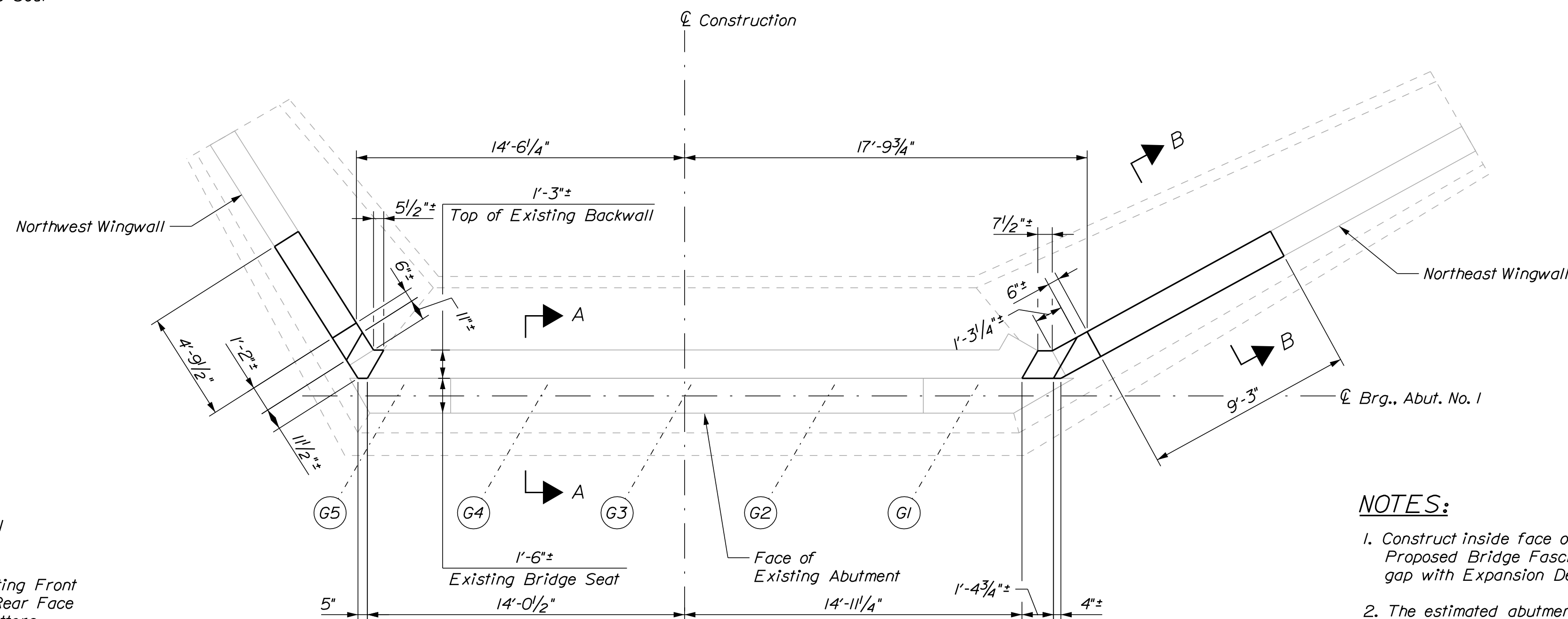
**SECTION A-A**  
1/2" = 1'-0"



**SECTION B-B**  
1/2" = 1'-0"



**NORTHWEST WINGWALL ELEVATION**  
1/4" = 1'-0"



**PLAN**  
1/4" = 1'-0"

**NOTES:**

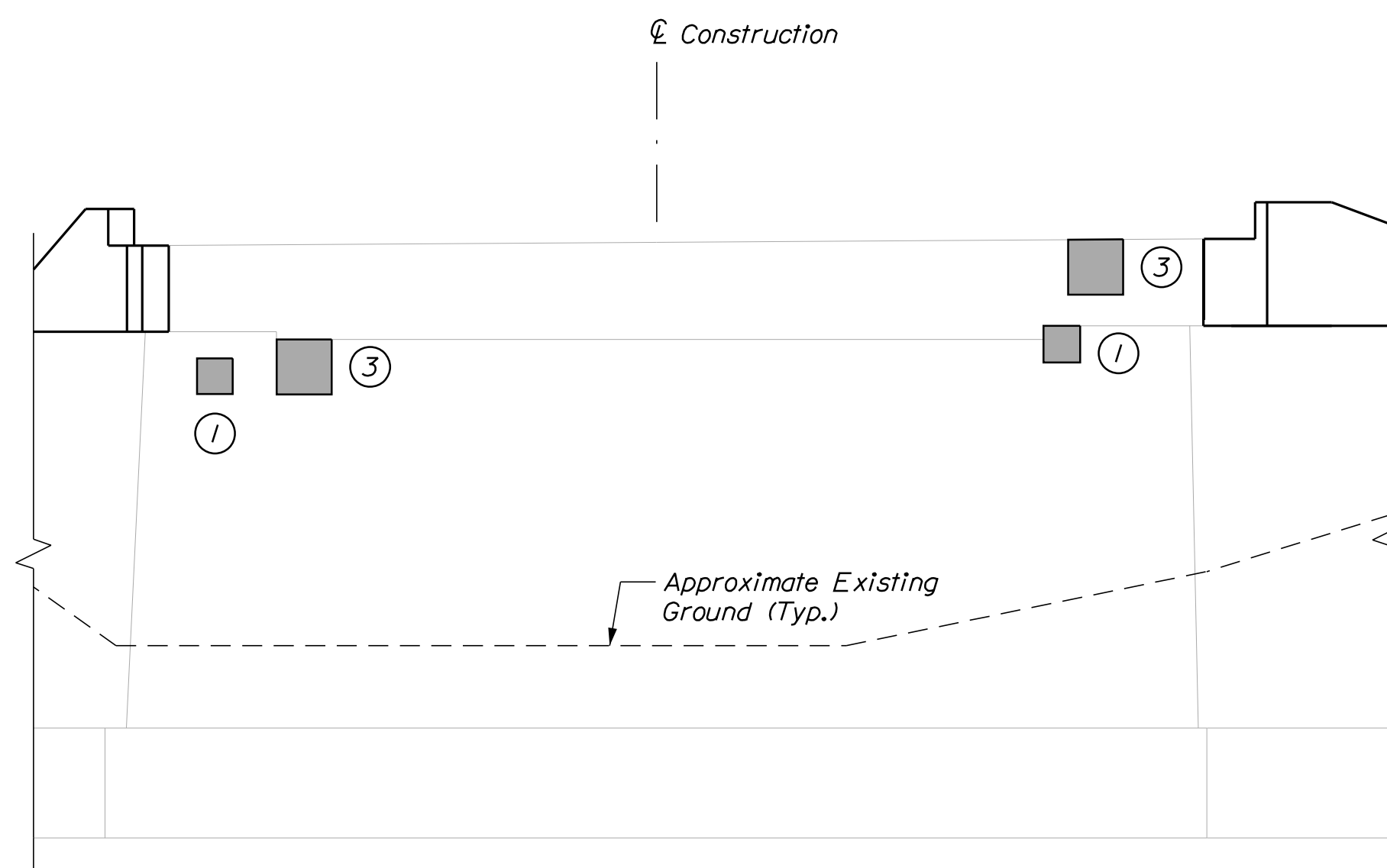
1. Construct inside face of Modified Wingwall to leave 1" gap between Proposed Bridge Fascia and Face of reconstructed wingwall. Seal 1" gap with Expansion Device - Silicone Coated Precompressed Foam.
2. The estimated abutment repair quantities are based on a visual inspection. If differences are experienced, the Resident shall be notified and quantities shall be adjusted accordingly. Actual repair areas will be determined and agreed on by the Contractor and the Resident during construction.

**ESTIMATED REPAIR QUANTITIES (SF)**

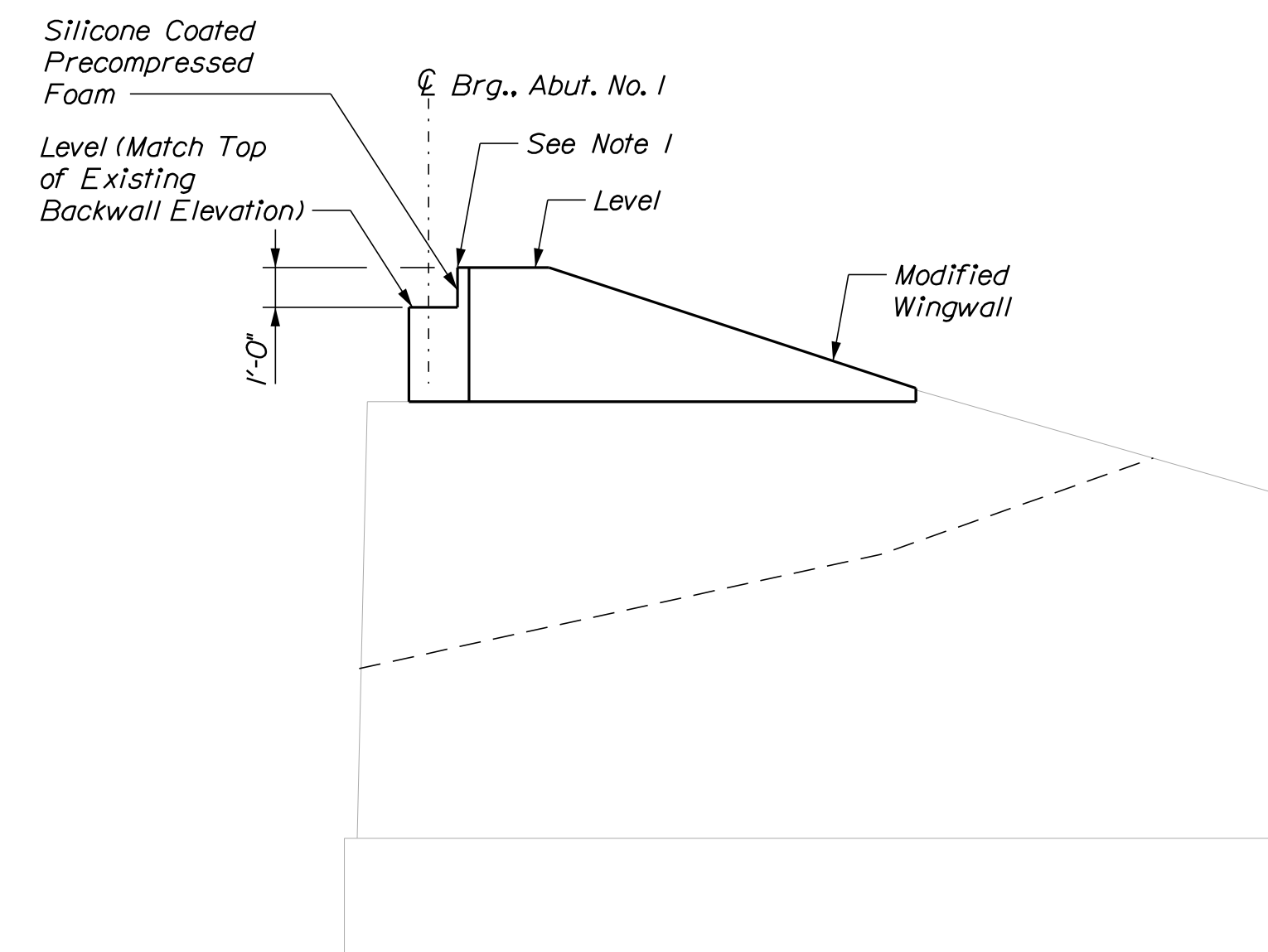
Abutment Surface Patch Repairs 15

**KEY**

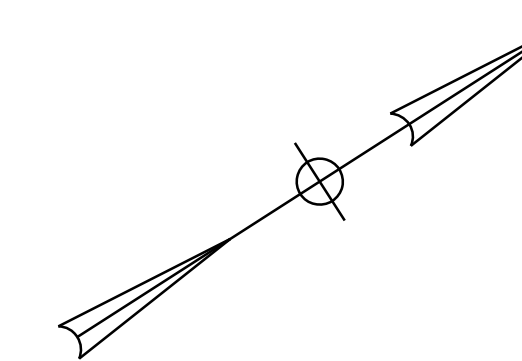
- Approximate Areas of Expected Repair of Vertical Surfaces
- Approximate Square Foot Area of Repair



**ABUTMENT I ELEVATION**  
1/4" = 1'-0"



**NORTHEAST WINGWALL ELEVATION**  
1/4" = 1'-0"



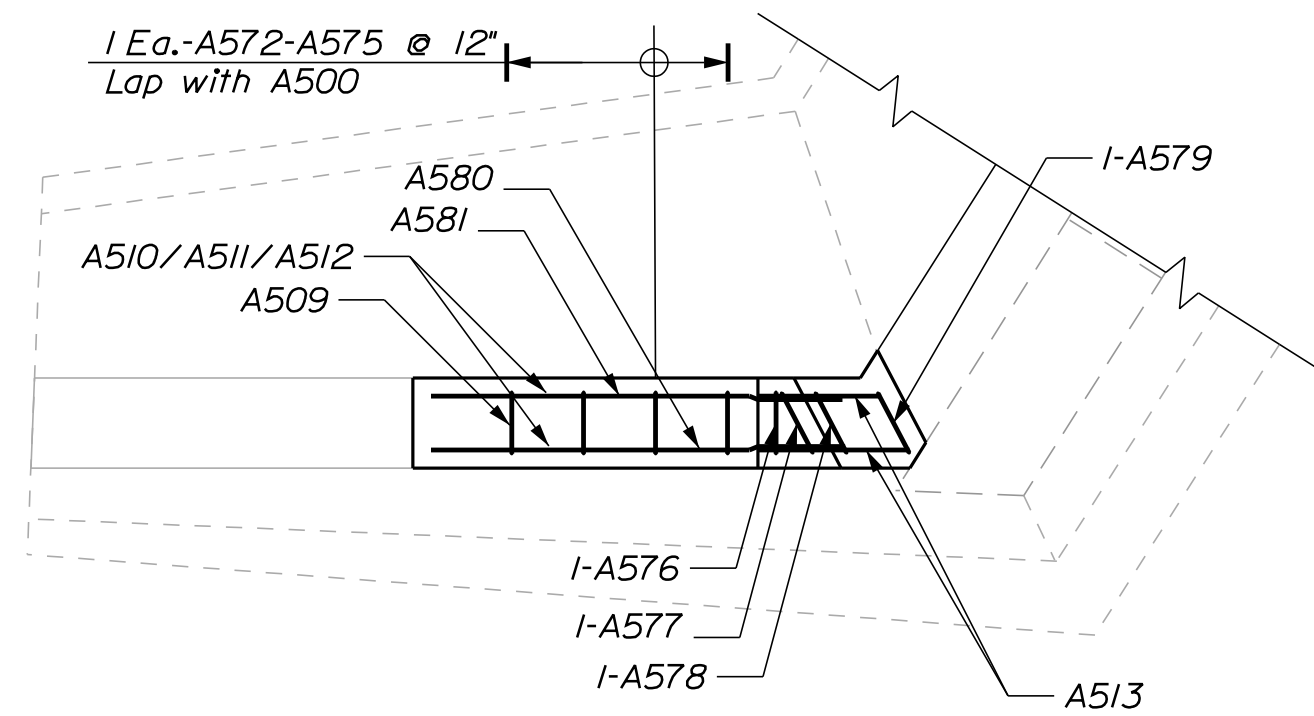
PROJ. MANAGER	JASON STETSON	DATE
DESIGN-DETAILED <td>MEB <td>12/18/20</td> </td>	MEB <td>12/18/20</td>	12/18/20
CHECKED-REVIEWED <td>ONE <td>12/18/20</td> </td>	ONE <td>12/18/20</td>	12/18/20
DESIGN-DETAILED2 <td></td> <td></td>		
DESIGN-DETAILED3 <td></td> <td></td>		
REVISIONS 1 <td></td> <td></td>		
REVISIONS 2 <td></td> <td></td>		
REVISIONS 3 <td></td> <td></td>		
REVISIONS 4 <td></td> <td></td>		
FIELD CHANGES <td></td> <td></td>		

Date: 12/18/2020

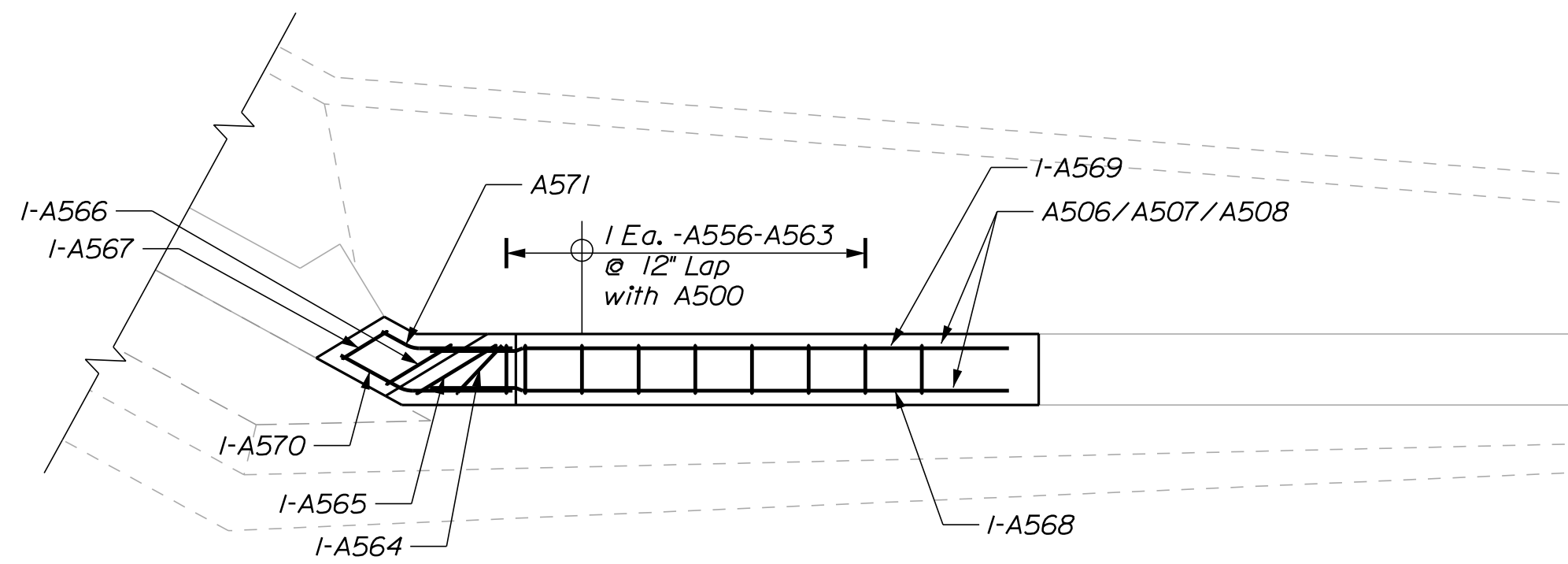
Username: PDonovan

Division: BRIDGE

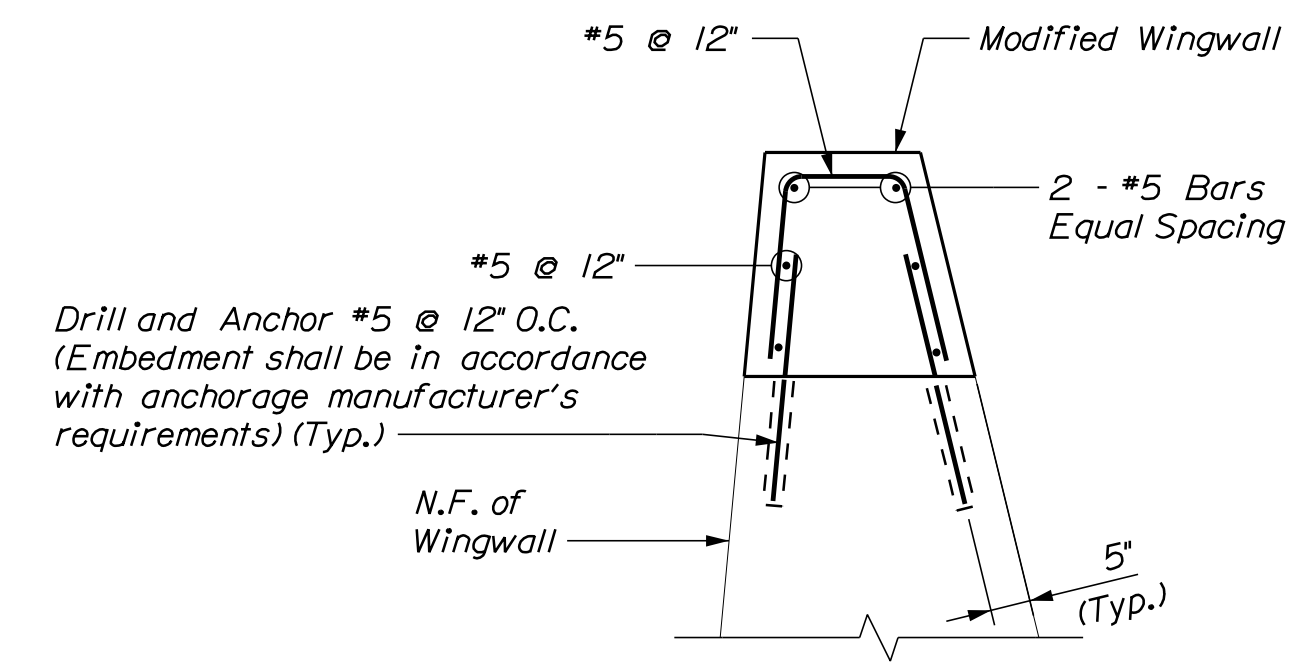
Filename: 017\_WW\_Reinf\_01.dgn



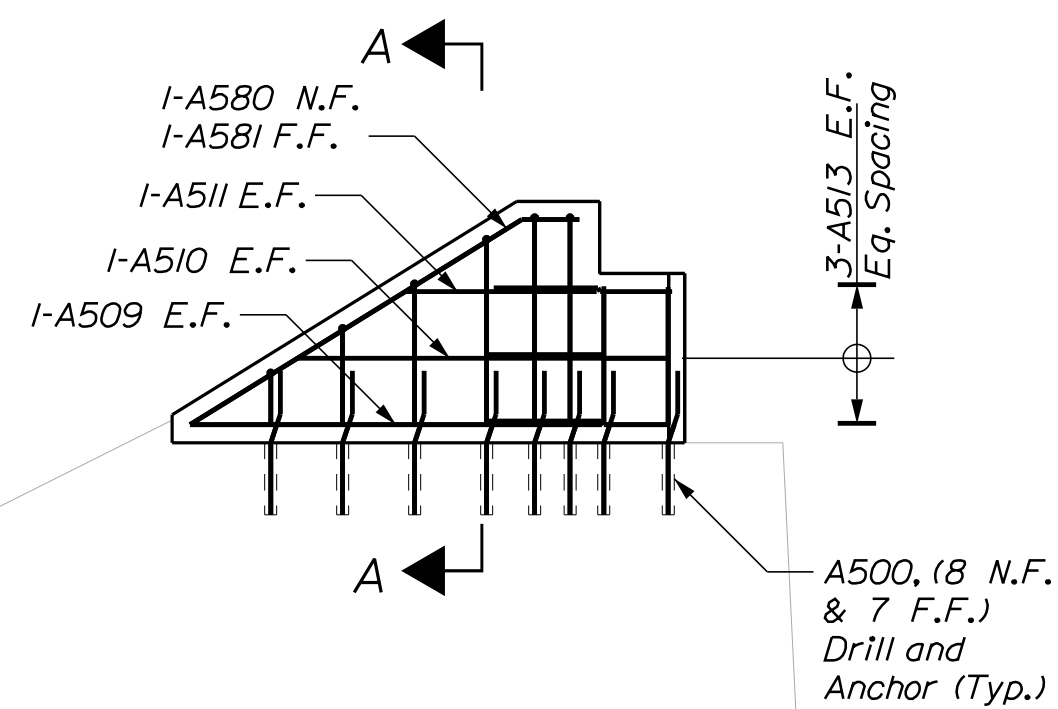
PLAN  
NORTHWEST WINGWALL  
3/8" = 1'-0"



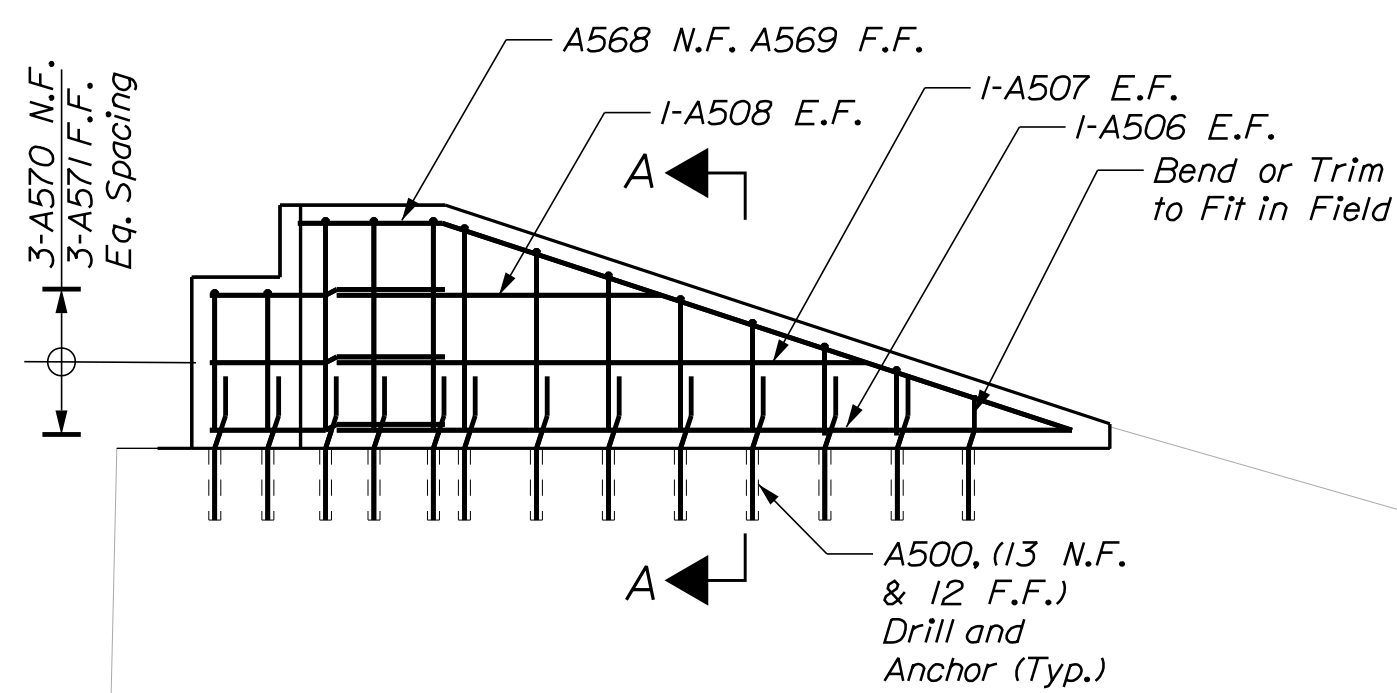
PLAN  
NORTHEAST WINGWALL  
3/8" = 1'-0"



SECTION A-A  
(See Plan and Elevation View for Bar Marks)  
1/2" = 1'-0"



NORTHWEST WINGWALL ELEVATION  
3/8" = 1'-0"



NORTHEAST WINGWALL ELEVATION  
3/8" = 1'-0"

**NOTE:**

1. Reinforcing steel shall have a minimum concrete cover of 3-inches unless otherwise noted.

**REINFORCING KEY**

- N.F. = Near Face
- F.F. = Far Face
- E.F. = Each Face
- ▲ = Cut in Field

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

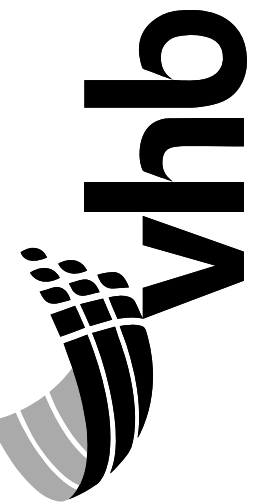
2231600

WIN

022316.00

BRIDGE NO. 3524

BRIDGE PLANS



PROJ. MANAGER	JASON STETSON	DATE
DESIGN-DETAILED <td>DPD <td>12/18/20</td> </td>	DPD <td>12/18/20</td>	12/18/20
CHECKED-REVIEWED <td>RSB <td>12/18/20</td> </td>	RSB <td>12/18/20</td>	12/18/20
DESIGN-DETAILED <td></td> <td></td>		
DESIGN-DETAILED <td></td> <td></td>		
REVISIONS		
REVISIONS		
REVISIONS		
REVISIONS		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER  
SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
ABUTMENT NO. 1  
WINGWALL REINFORCEMENT

SHEET NUMBER

17

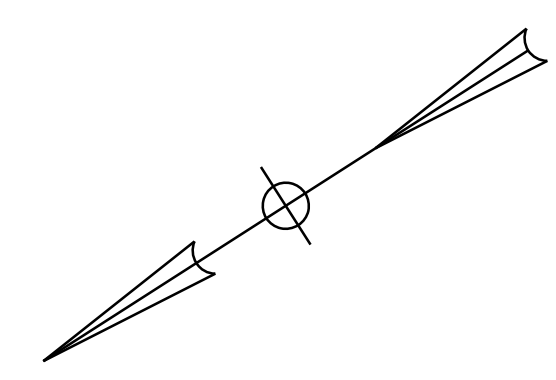
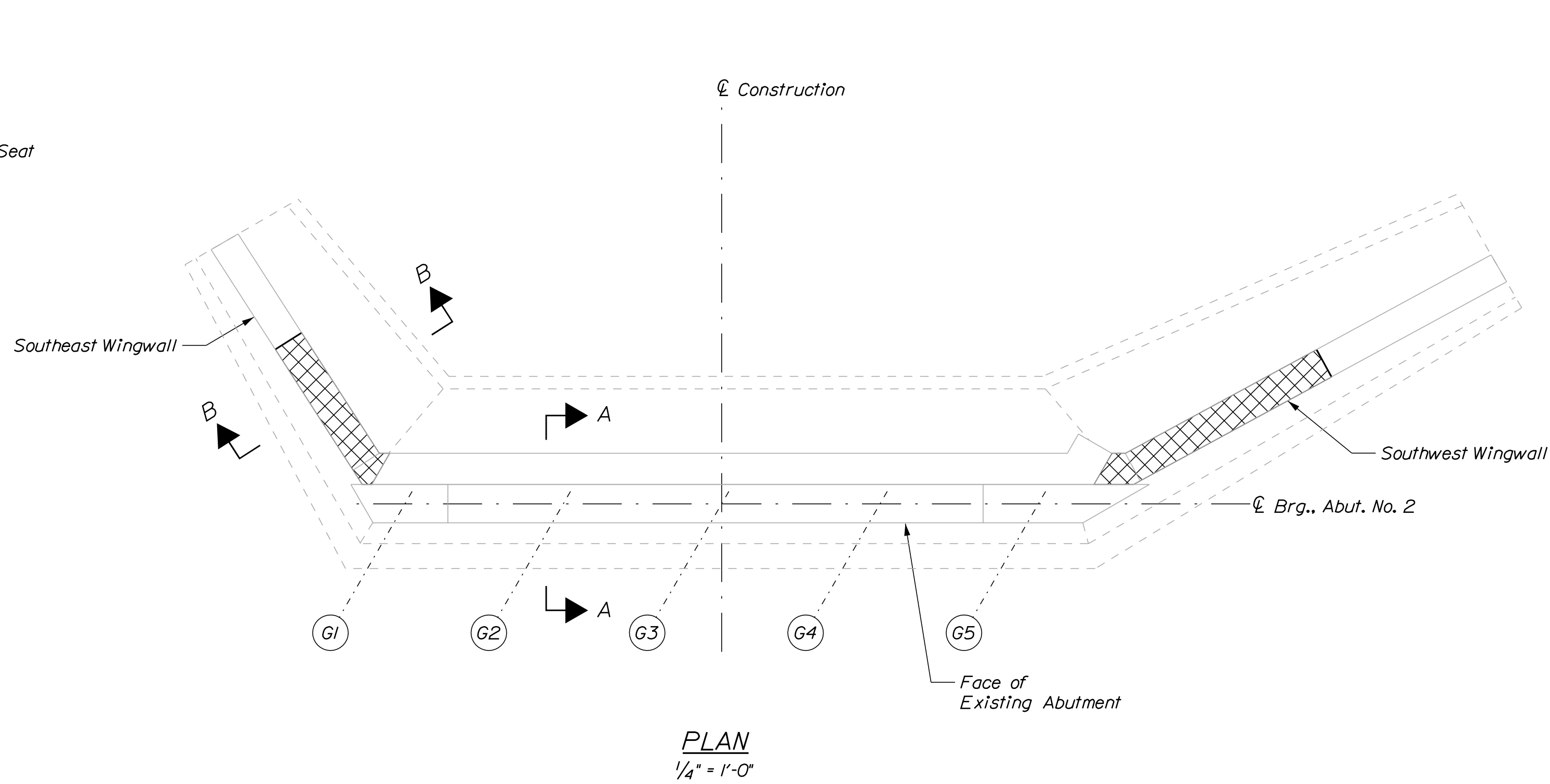
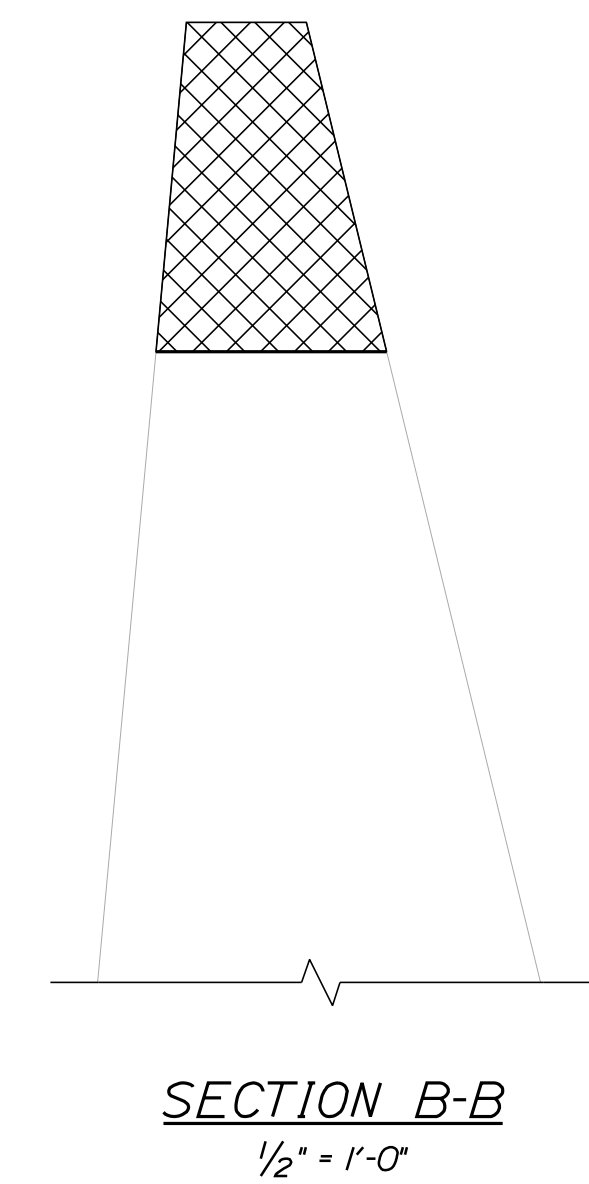
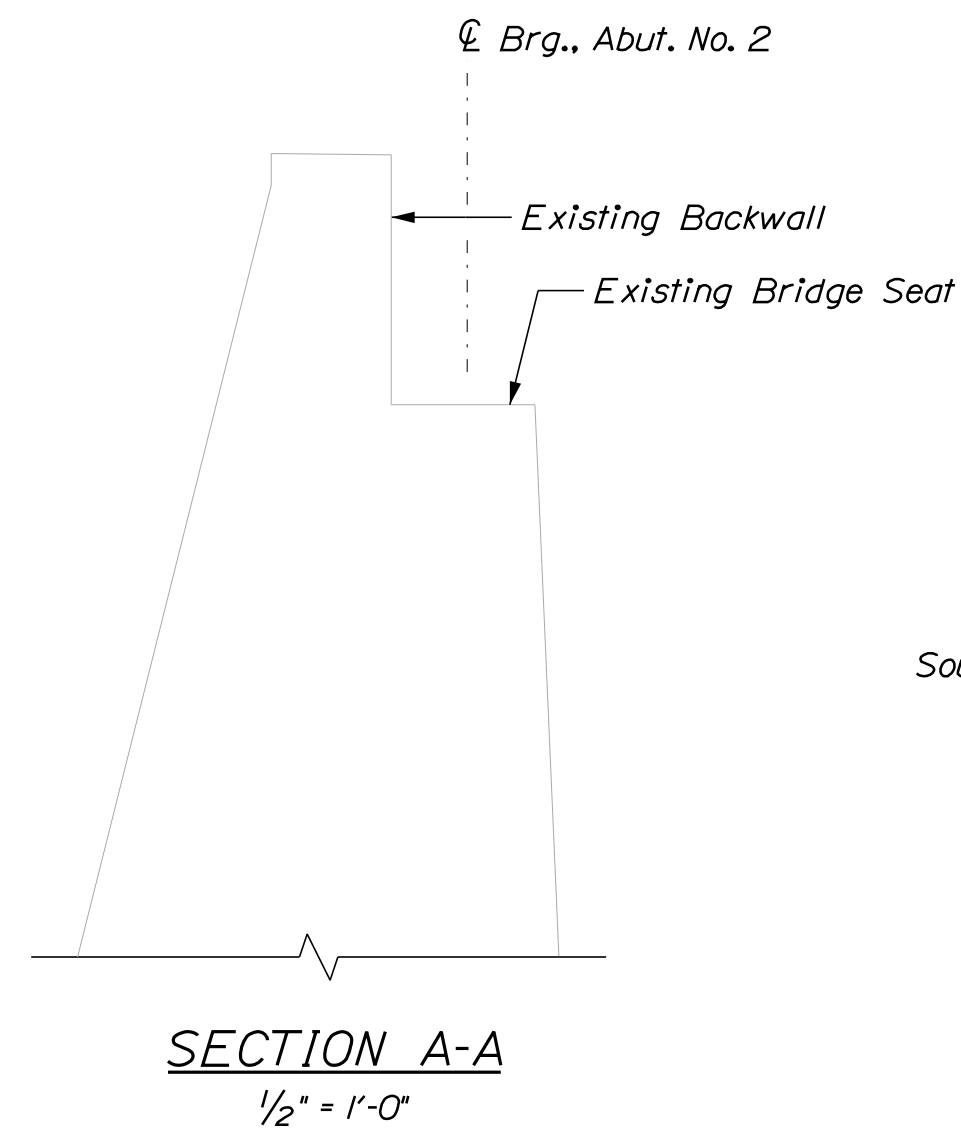
OF 26

Date: 12/18/2020

Username: PDonovan

Division: BRIDGE

Filename: 018\_Abut2\_Rem.dgn

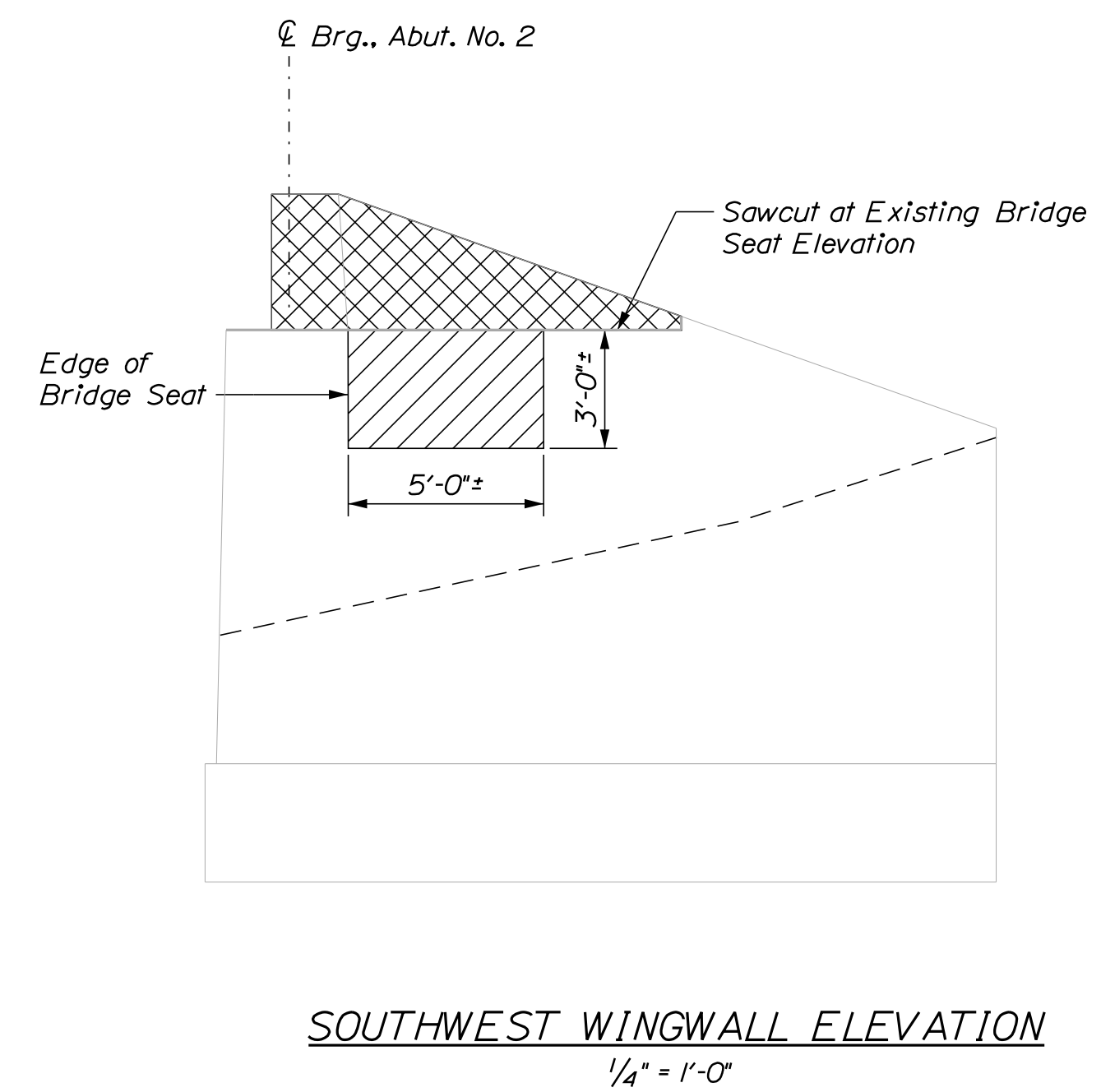
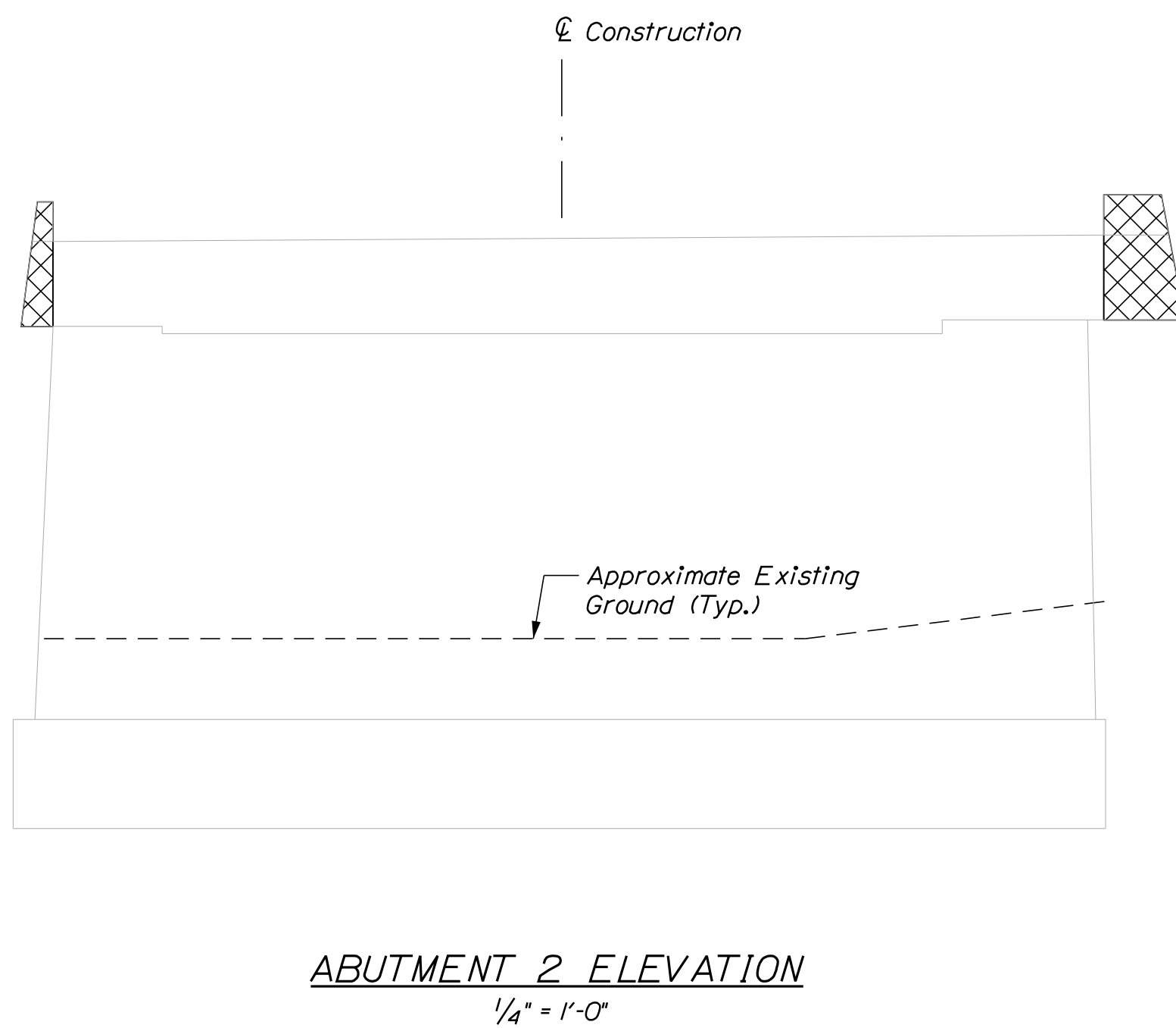
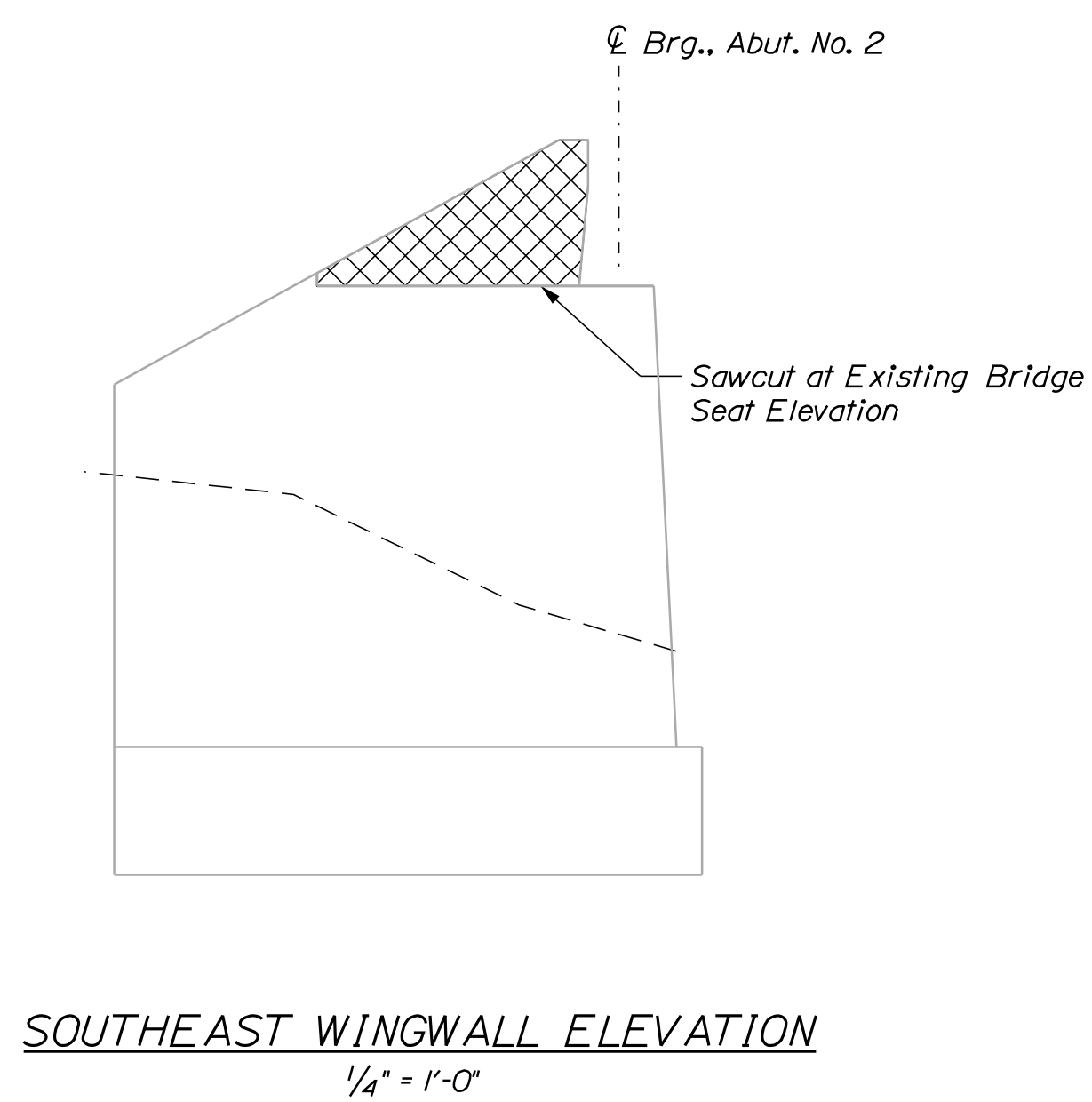


**NOTE**

1. Existing concrete at abutments and wingwalls to be removed as shown on the Plans shall be sawcut one-inch deep at the removal limits prior to removal. All costs associated with this work shall be incidental to related Contract items.

**KEY**

- = Limit of Full Depth Concrete Removal
- = Limit of Partial Depth Concrete Removal



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2231600  
WIN  
022316.00  
BRIDGE NO. 3524  
BRIDGE PLANS



PROJ. MANAGER	JASON	STETSON	DATE
DESIGN-DETAILED	WEB	DPD	12/18/20
CHECKED-REVIEWED	ONE	RSB	12/18/20
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
**ABUTMENT NO. 2 REMOVAL**

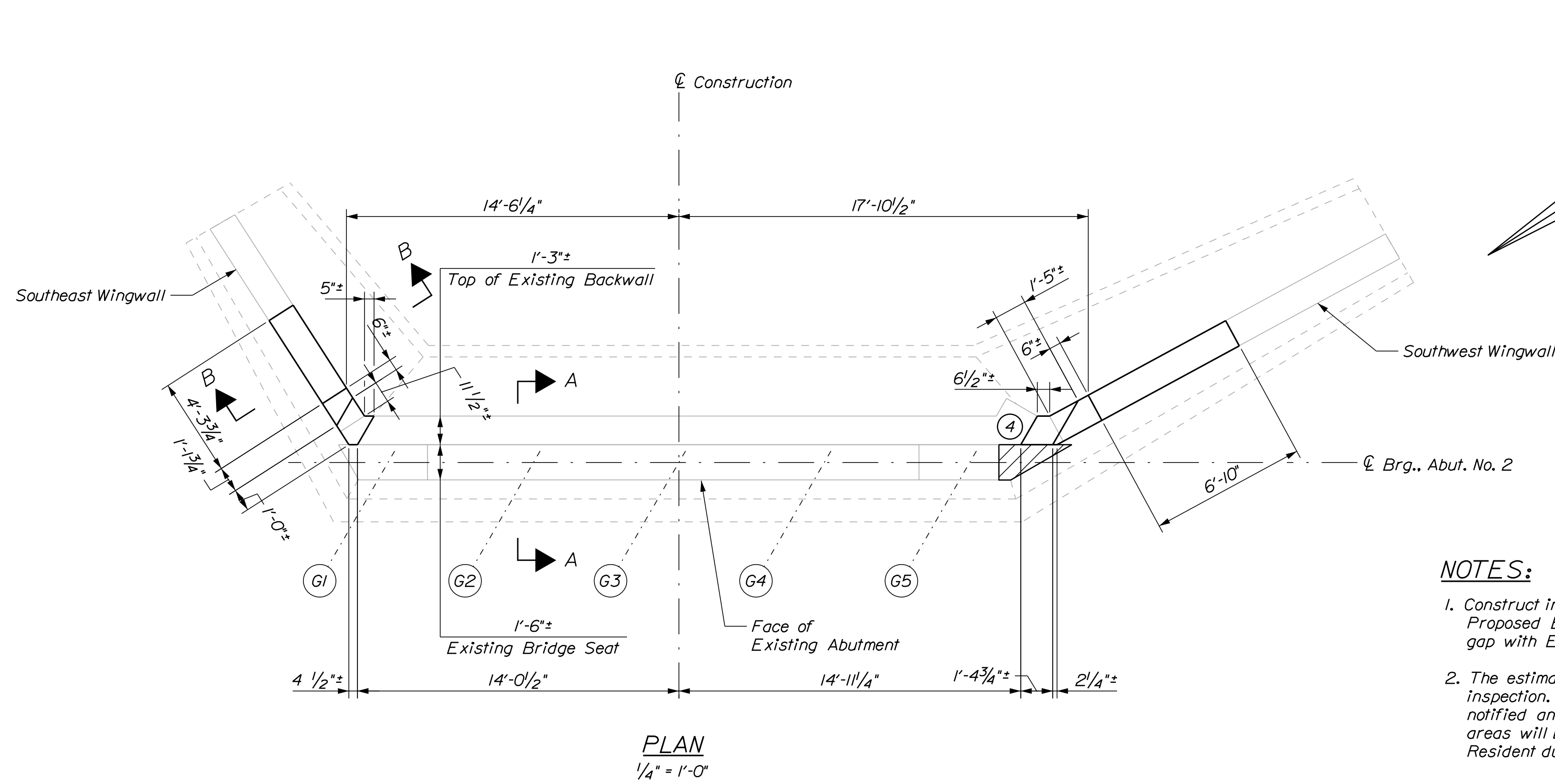
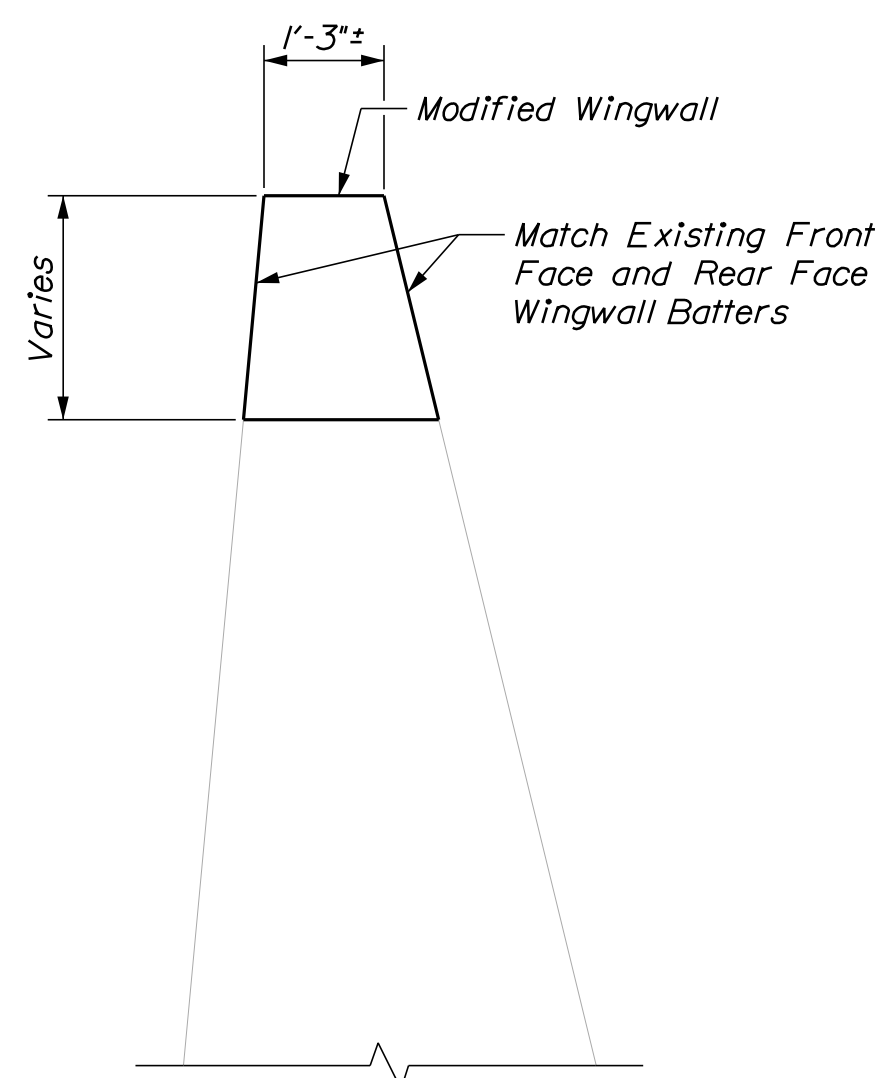
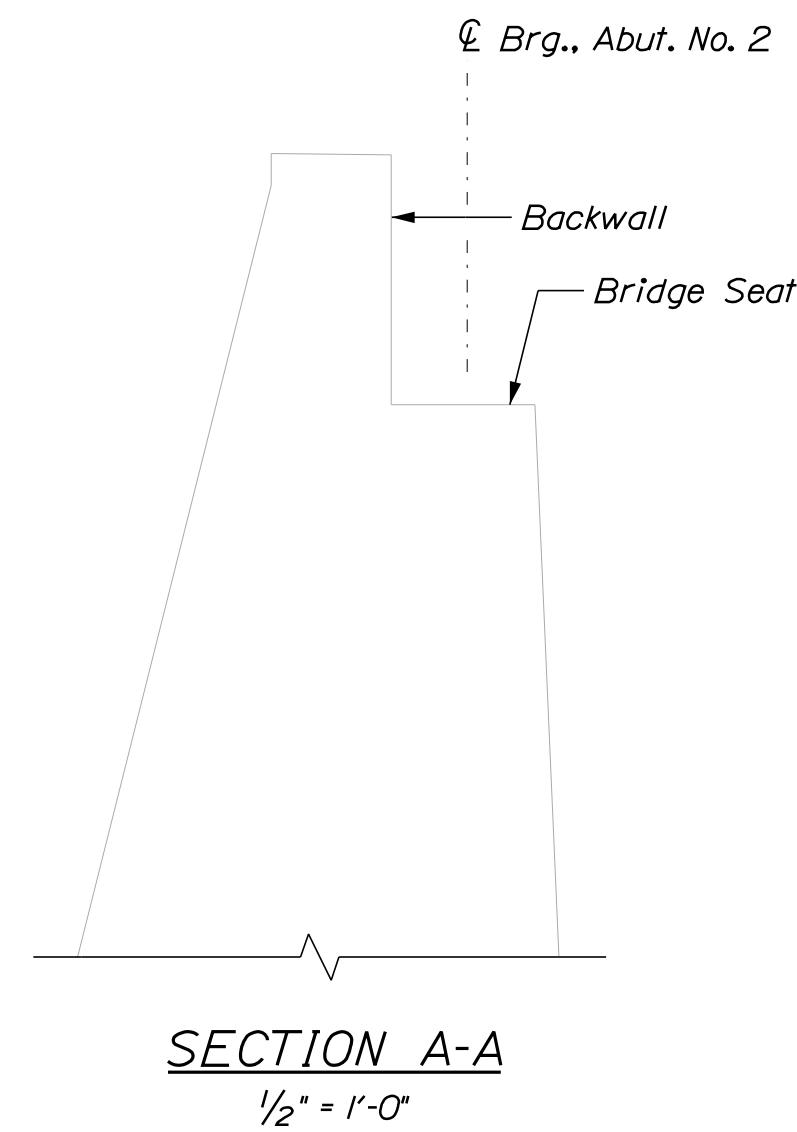
SHEET NUMBER  
**18**  
OF 26

Date: 12/18/2020

Username: PDonovan

Division: BRIDGE

Filename: 019\_Abut2\_Repair.dgn



**NOTES:**

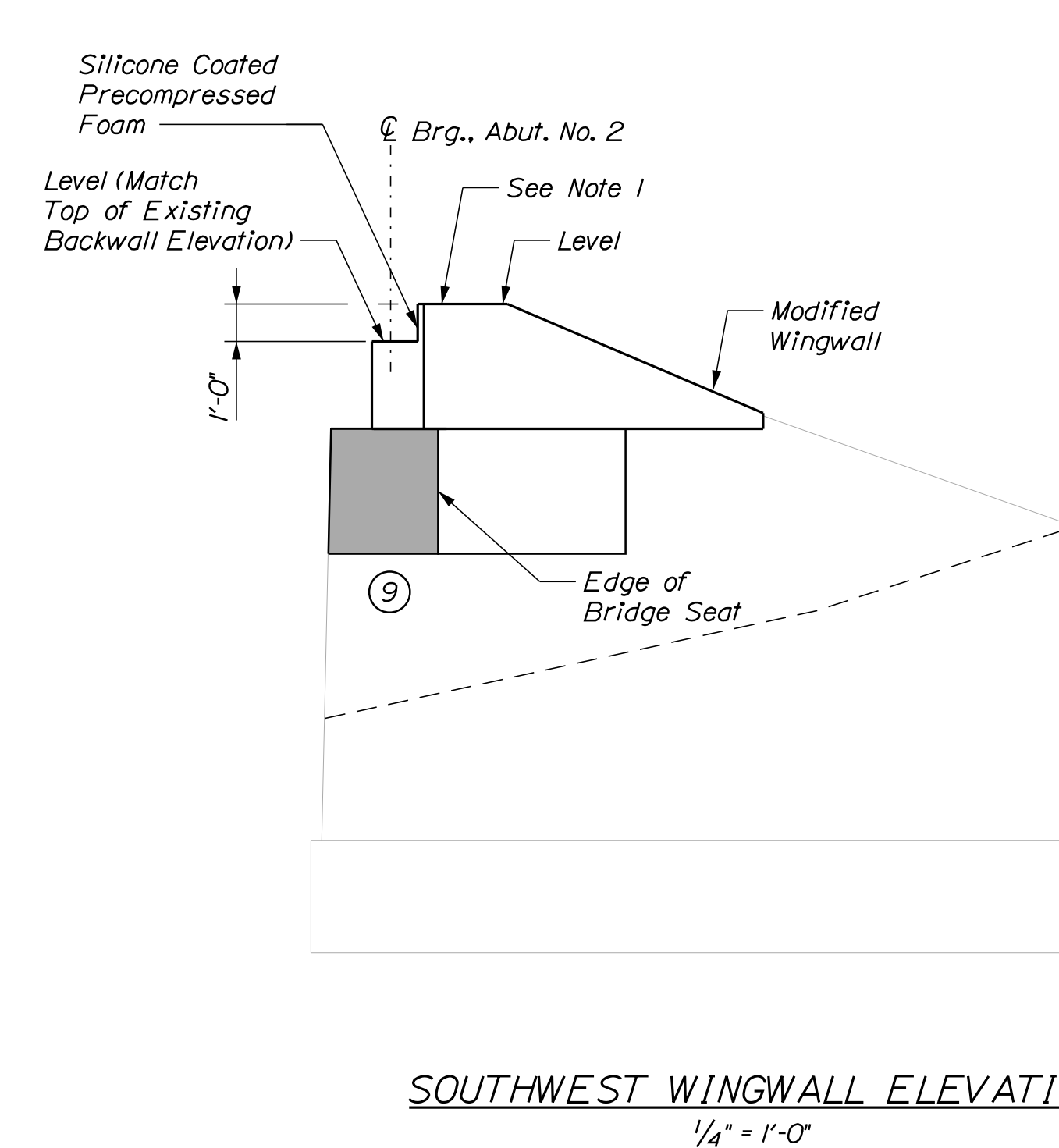
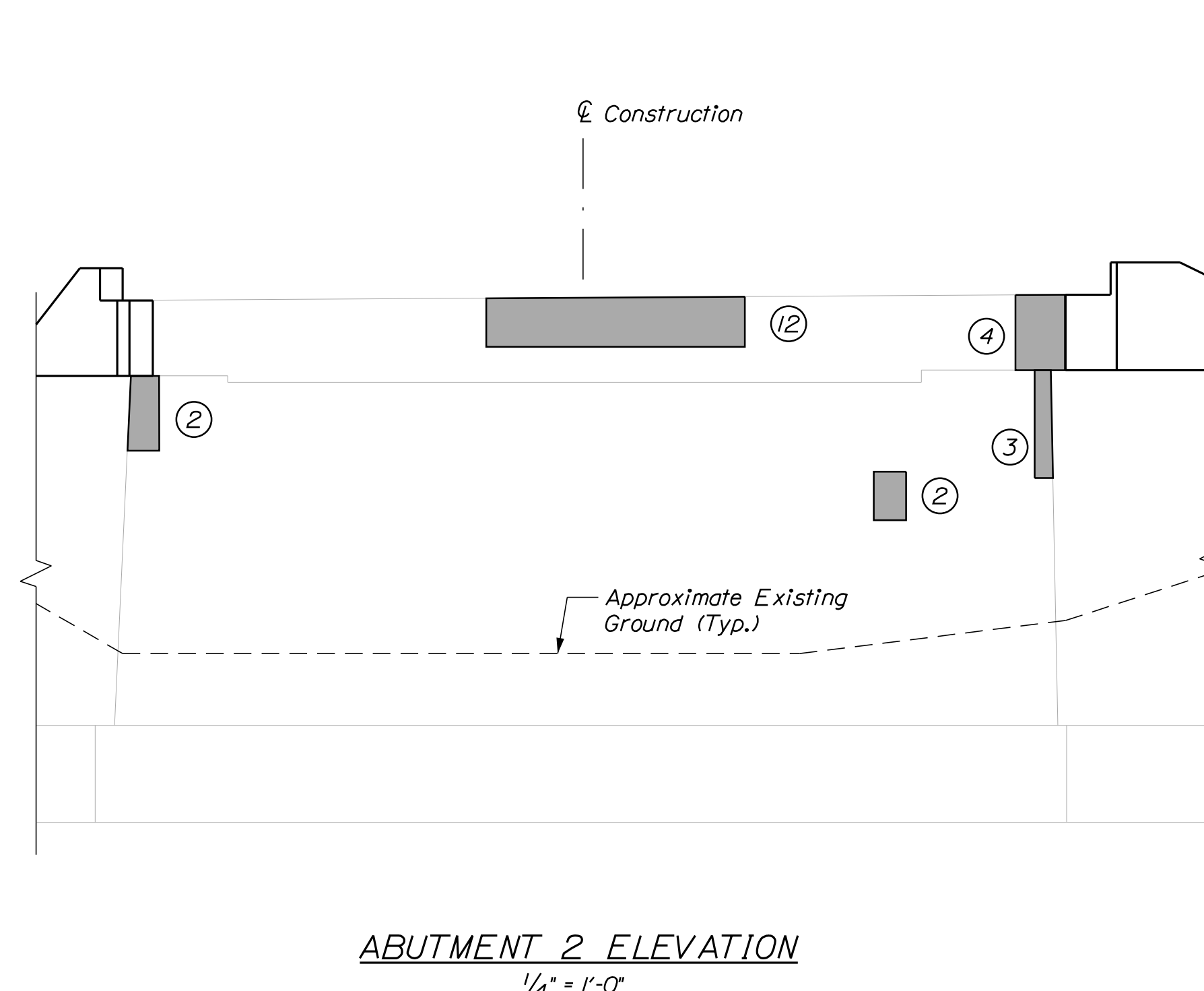
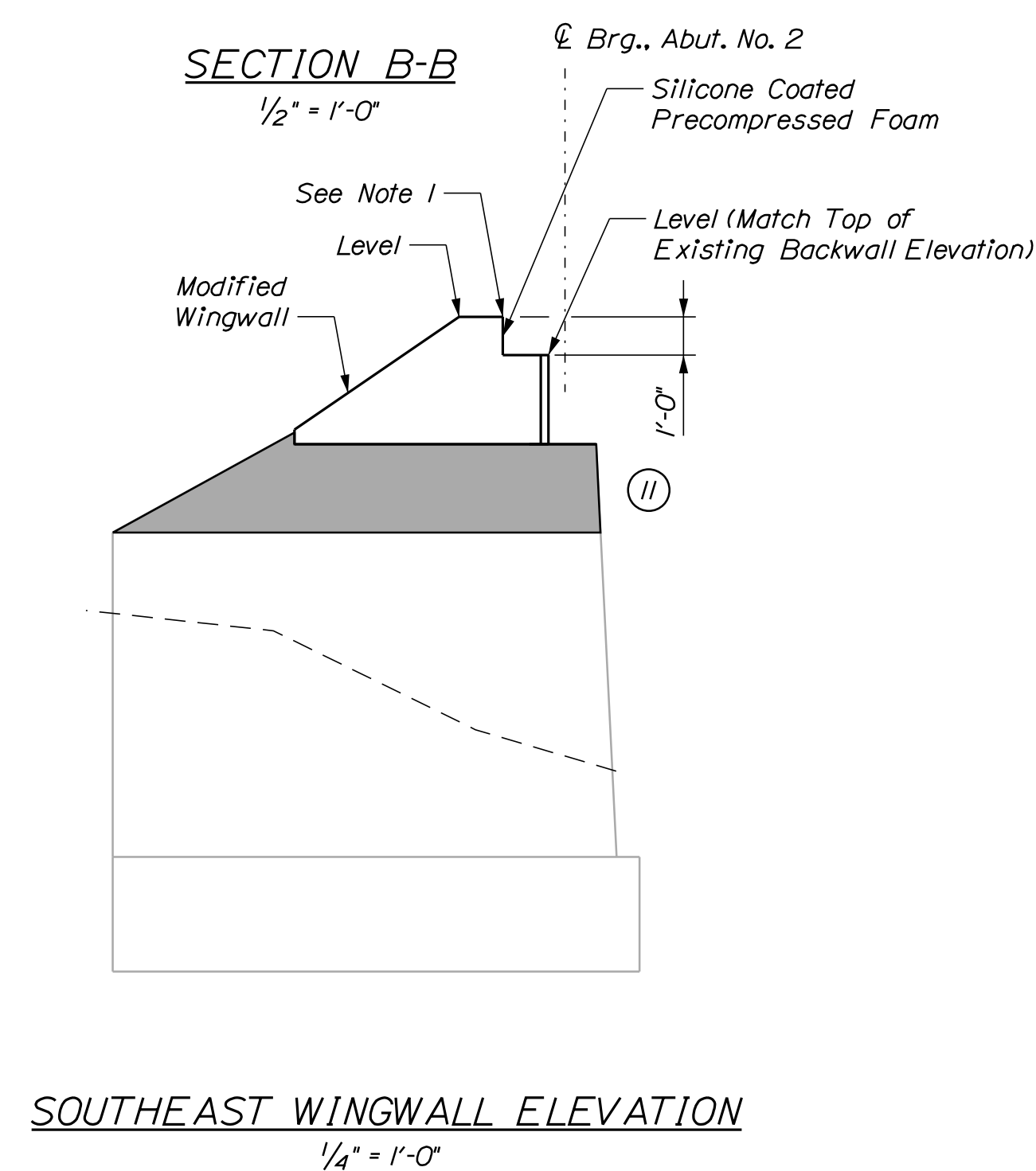
1. Construct inside face of Modified Wingwall to leave 1" gap between Proposed Bridge Fascia and Face of reconstructed wingwall. Seal 1" gap with Expansion Device - Silicone Coated Precompressed Foam.
2. The estimated abutment repair quantities are based on a visual inspection. If differences are experienced, the Resident shall be notified and quantities shall be adjusted accordingly. Actual repair areas will be determined and agreed on by the Contractor and the Resident during construction.

**ESTIMATED REPAIR QUANTITIES (SF)**

Abutment Surface Patch Repairs (Vertical Surfaces)	55
Abutment Surface Patch Repairs (Upward Facing Surfaces)	6

**KEY**

- Approximate Areas of Expected Repair of Vertical Surfaces
- Approximate Areas of Expected Repair of Upward Facing Surfaces
- Approximate Square Foot Area of Repair



STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 2231600  
 BRIDGE NO. 3524 WIN 022316.00  
 BRIDGE PLANS

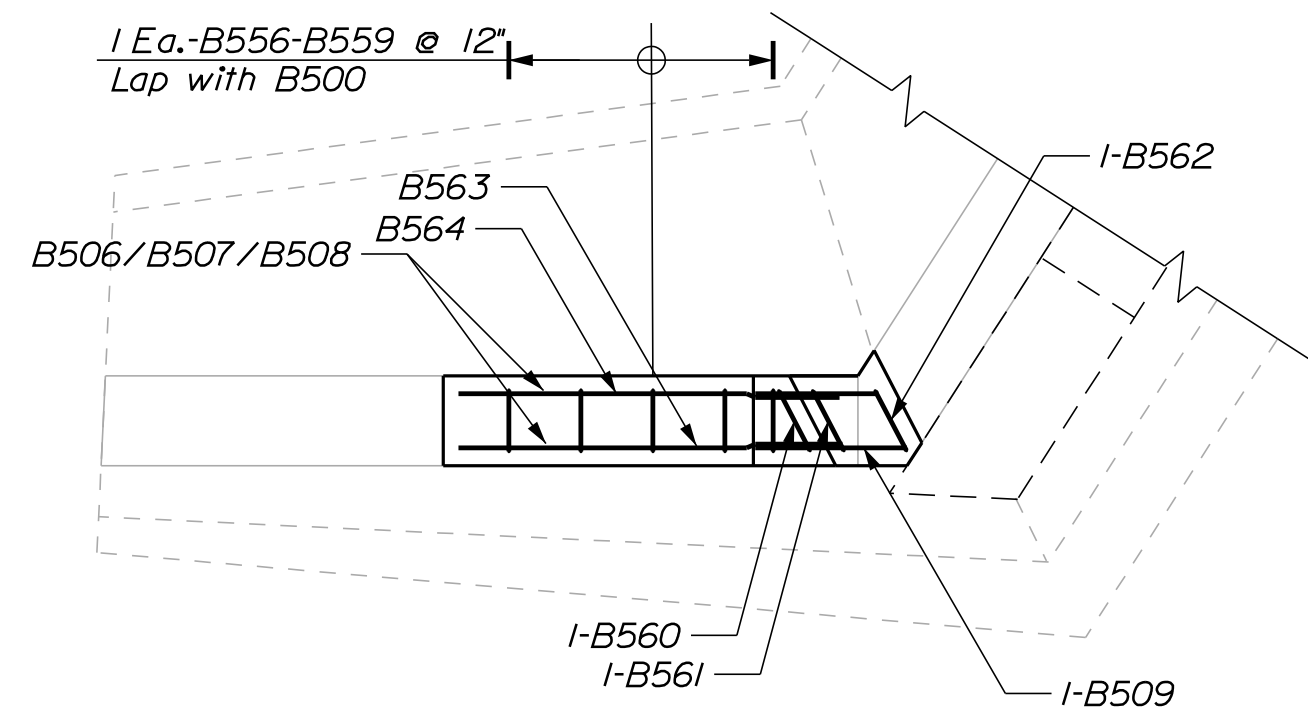
PROJ. MANAGER	DATE	BY
JASON STETSON	12/18/20	DPD
DESIGN-DETAILED	12/18/20	RSB
CHECKED-REVIEWED		
DESIGN2-DETAILED		
DESIGN3-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
 OXFORD COUNTY  
 GRAFTON TOWNSHIP ME  
**ABUTMENT NO. 2**  
**REPAIRS AND MODIFICATIONS**

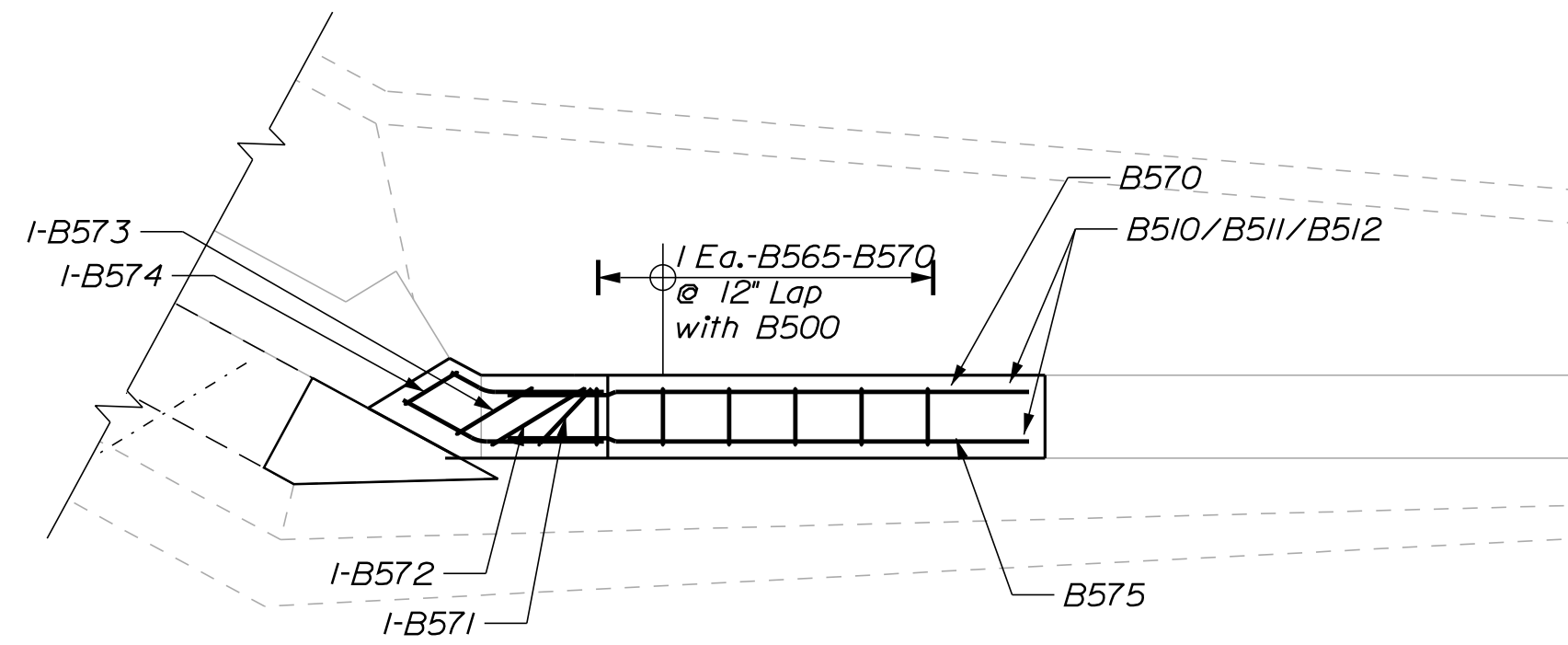
SHEET NUMBER

19

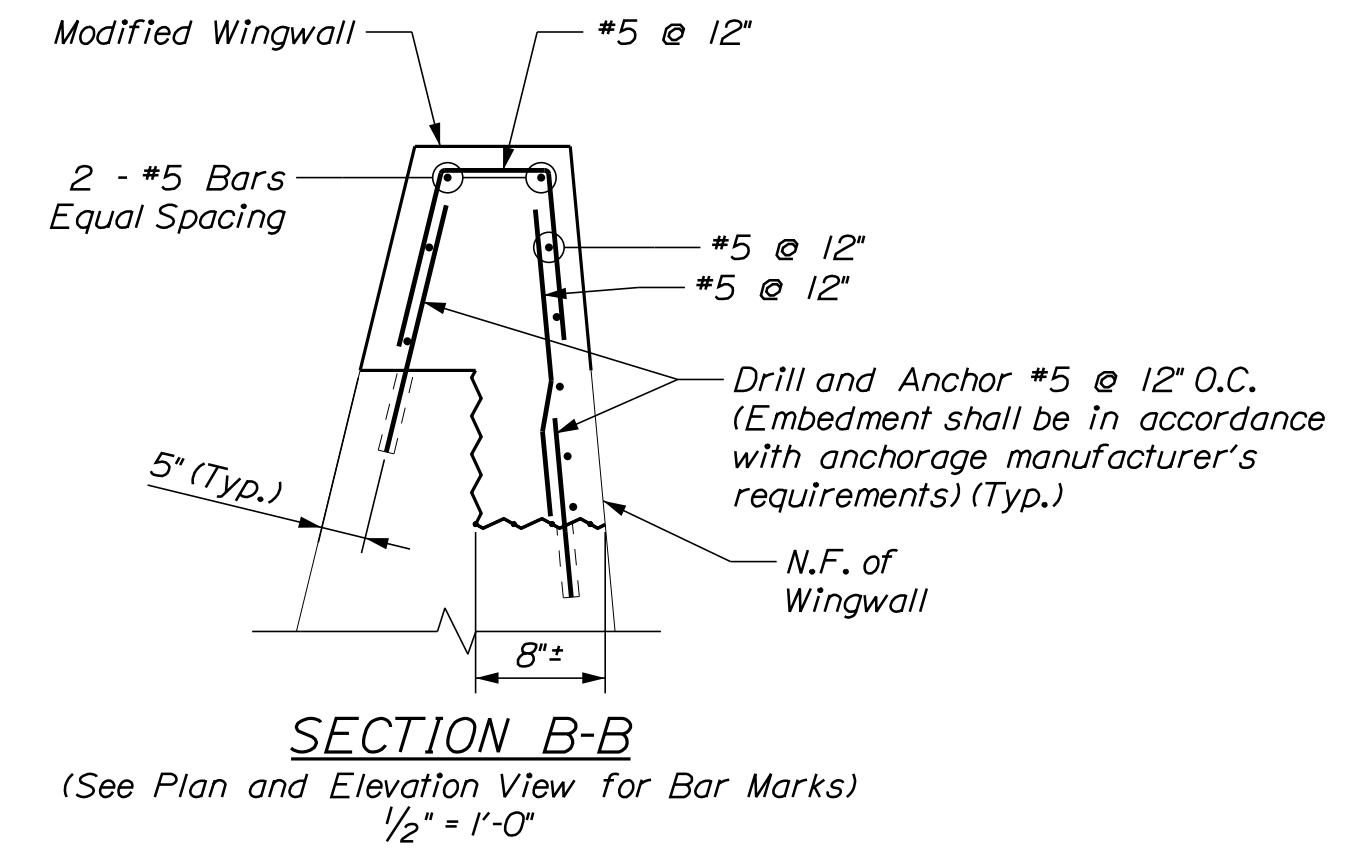
OF 26



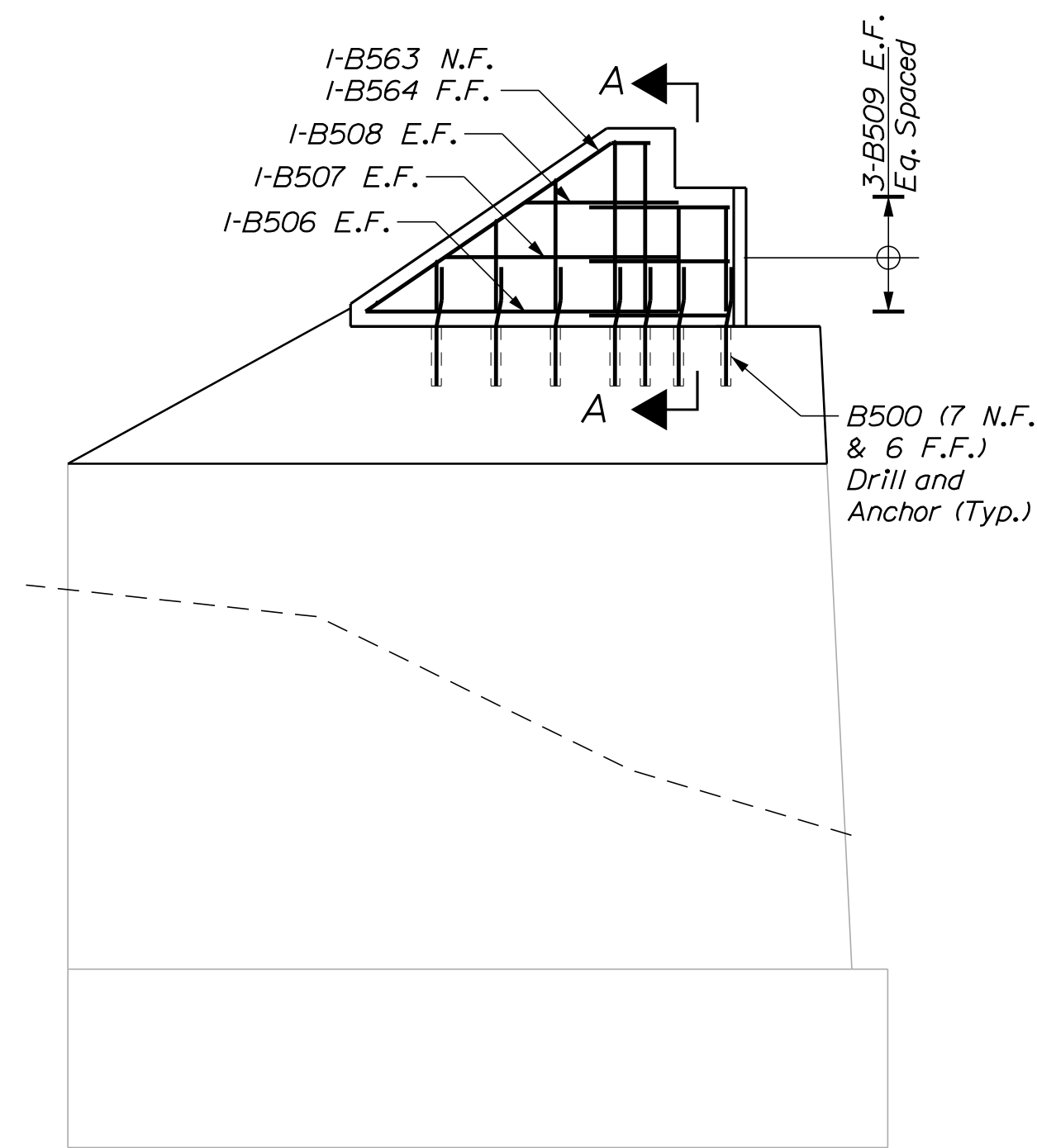
**PLAN**  
**SOUTHEAST WINGWALL**  
3/8" = 1'-0"



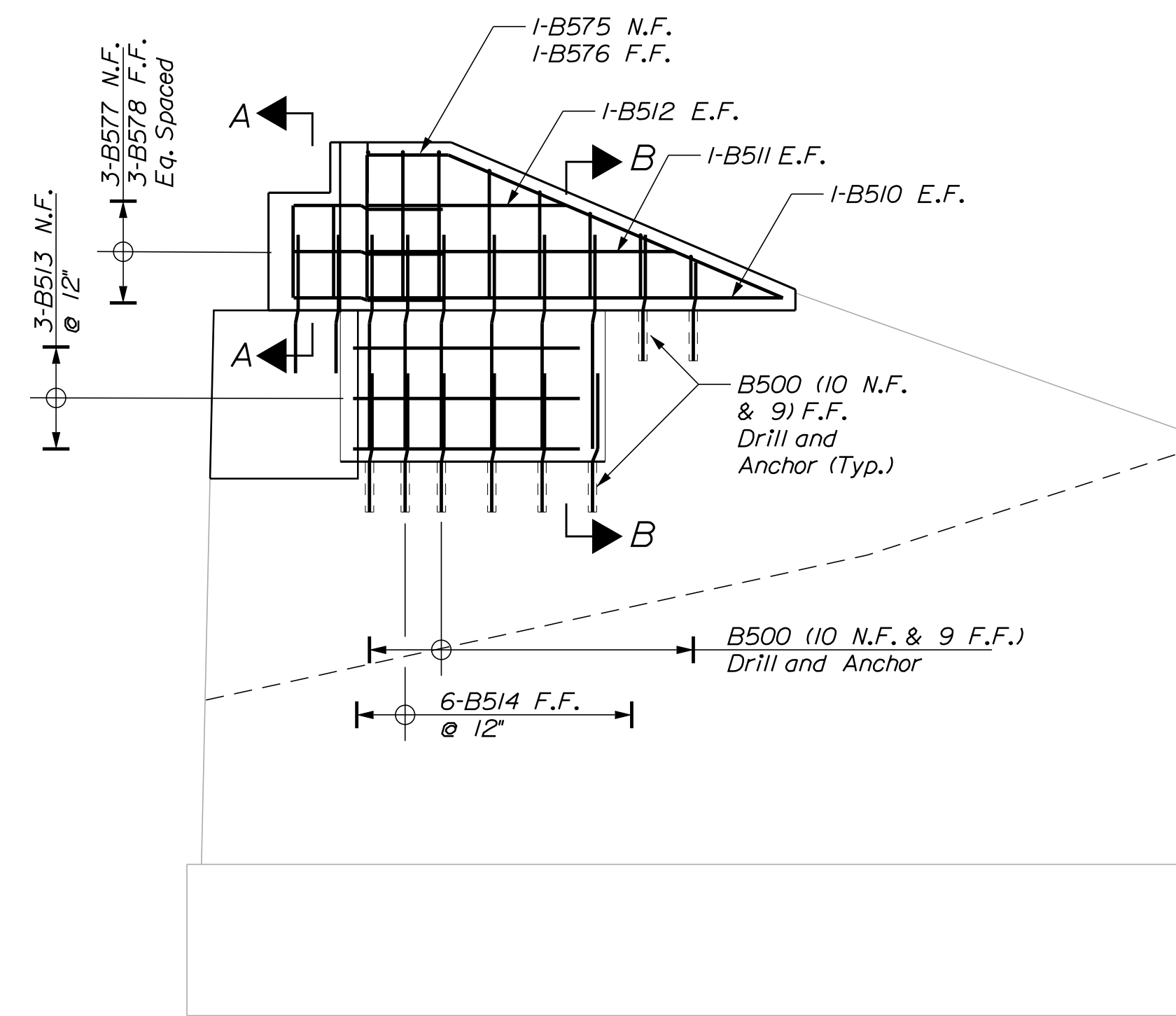
**PLAN**  
**SOUTHWEST WINGWALL**  
3/8" = 1'-0"



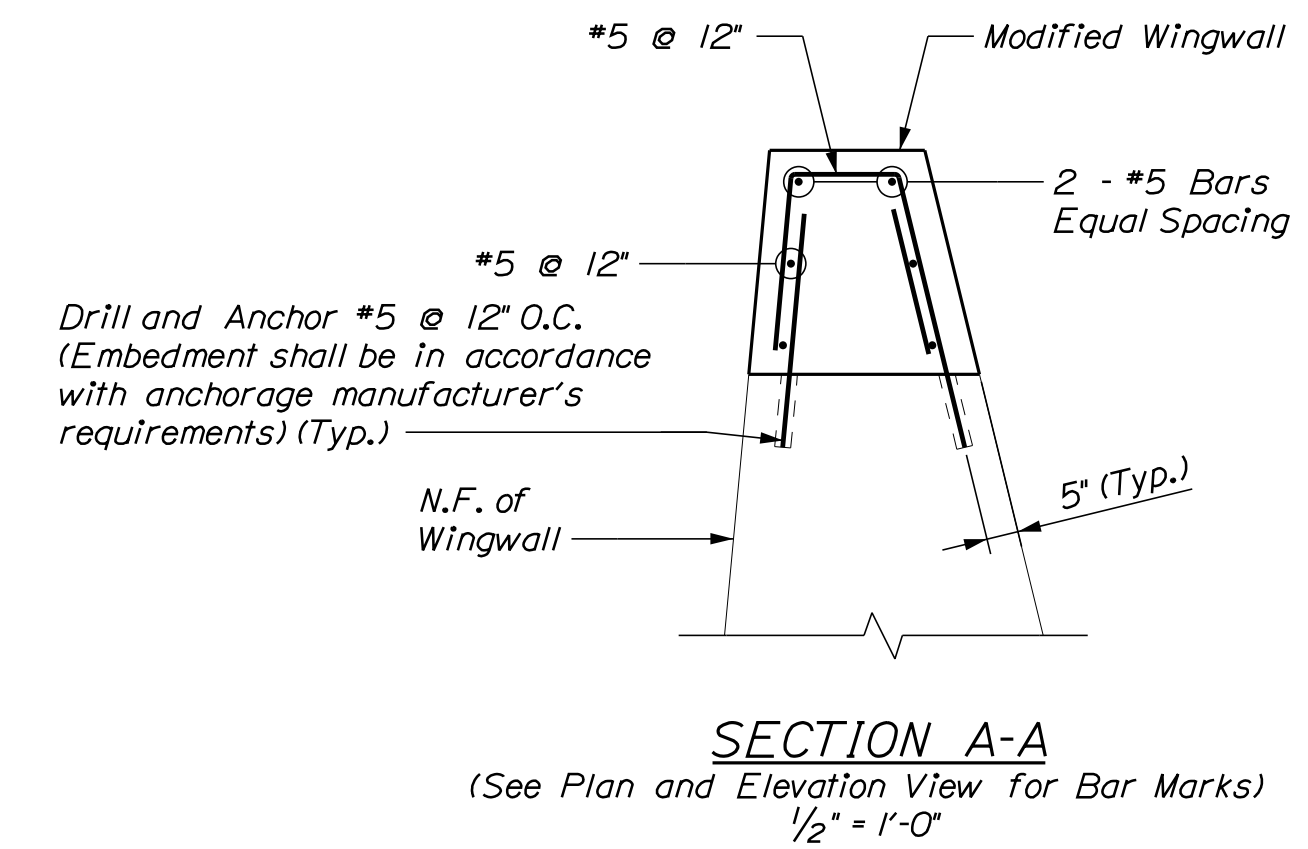
**SECTION B-B**  
(See Plan and Elevation View for Bar Marks)  
1/2" = 1'-0"



**SOUTHEAST WINGWALL ELEVATION**  
3/8" = 1'-0"



**SOUTHWEST WINGWALL ELEVATION**  
3/8" = 1'-0"



**SECTION A-A**  
(See Plan and Elevation View for Bar Marks)  
1/2" = 1'-0"

**NOTE:**

1. Reinforcing steel shall have a minimum concrete cover of 3-inches unless otherwise noted.

**REINFORCING KEY**

N.F. = Near Face  
F.F. = Far Face  
E.F. = Each Face  
▲ = Cut in Field

Date: 12/18/2020

Username: PDonovan

Division: BRIDGE

Filename: 020\_WW\_Reinf\_02.dgn

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2231600  
WIN  
022316.00  
BRIDGE NO. 3524



PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DATE
JASON STETSON	DPD	RSB	12/18/20
	WEB		
	DESIGN2-DETAILED		
	DESIGN3-DETAILED		
	REVISIONS 1		
	REVISIONS 2		
	REVISIONS 3		
	REVISIONS 4		
	FIELD CHANGES		

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
**ABUTMENT NO. 2**  
**WINGWALL REINFORCEMENT**

SHEET NUMBER

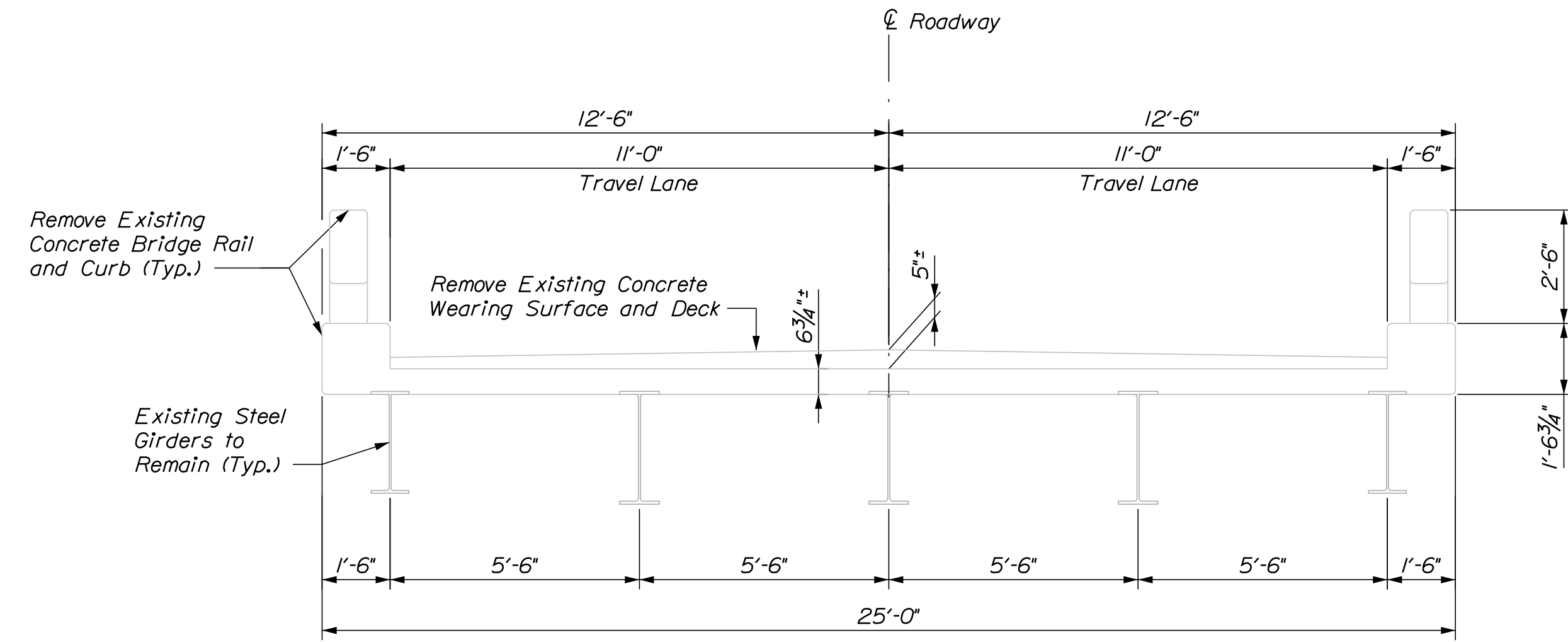
**20**  
OF 26

Date: 12/18/2020

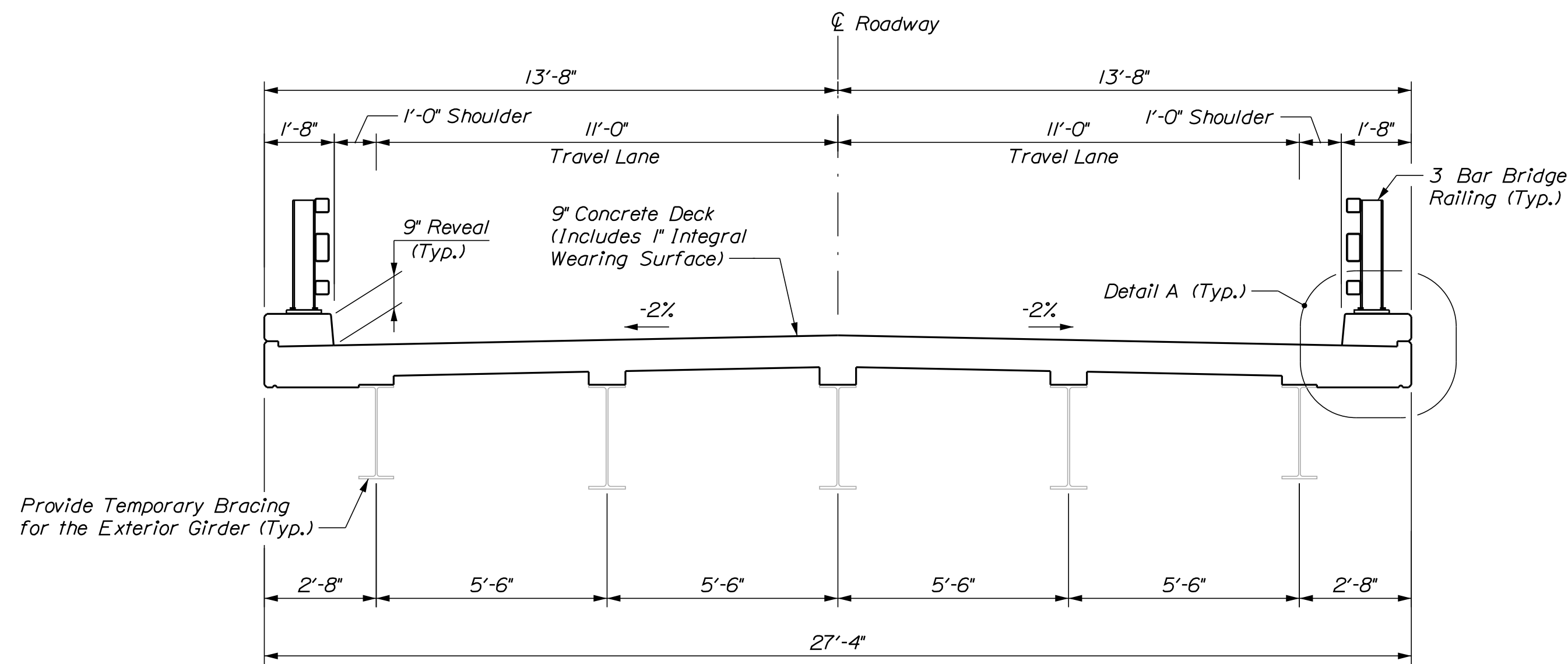
Username: PDonovan

Division: BRIDGE

Filename: 021\_Btypical.dgn



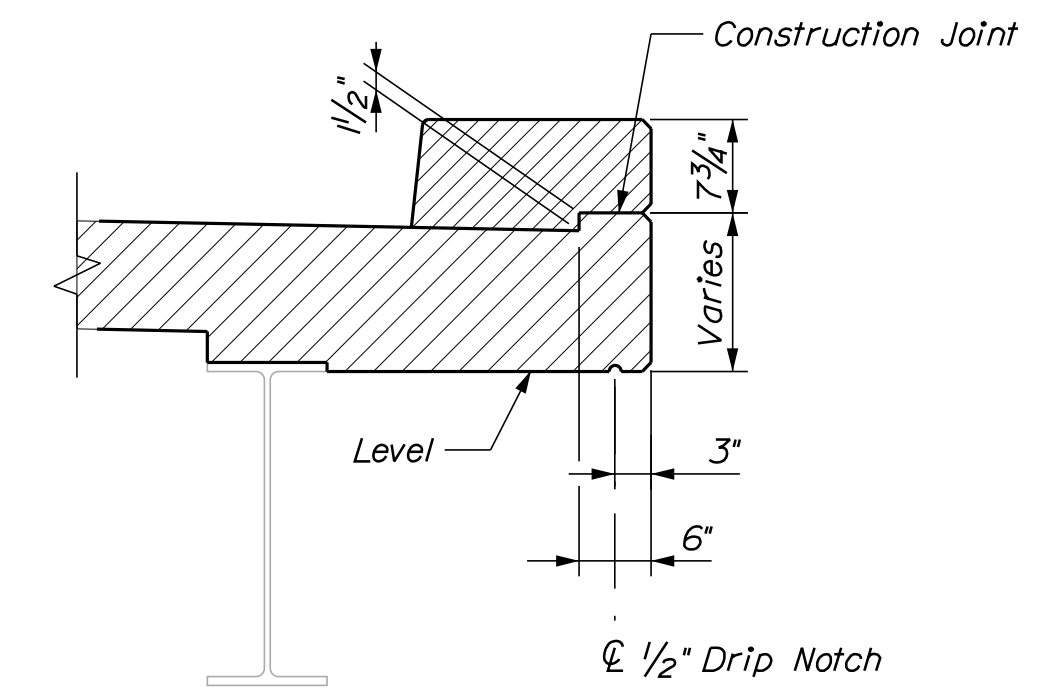
**EXISTING  
TYPICAL SECTION**  
Scale: 3/8" = 1'-0"



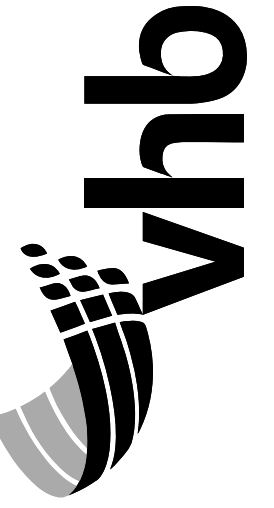
**PROPOSED  
TYPICAL SECTION**  
Scale: 3/8" = 1'-0"

**SUPERSTRUCTURE NOTES**

1. The concrete deck shall have a tined finish.
2. Prior to installing the proposed shear studs, the Contractor shall grind the top flanges at the proposed shear stud locations, as directed by the Resident. At all other locations along the top flange, the Contractor shall remove all debris, rust, scale, oil and contaminants prior to placement of the deck concrete. Payment for preparing girder top flange for installation of proposed shear studs shall be incidental to Item 505.08.
3. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
4. Reinforcing steel shall have a minimum concrete cover of 2-inches unless otherwise noted.
5. Precast deck panels, partial or full, will not be permitted as a substitute for the cast-in-place concrete deck.



**DETAIL A**  
Scale: 3/4" = 1'-0"



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

2231600  
WIN  
022316.00  
BRIDGE NO. 3524  
BRIDGE PLANS

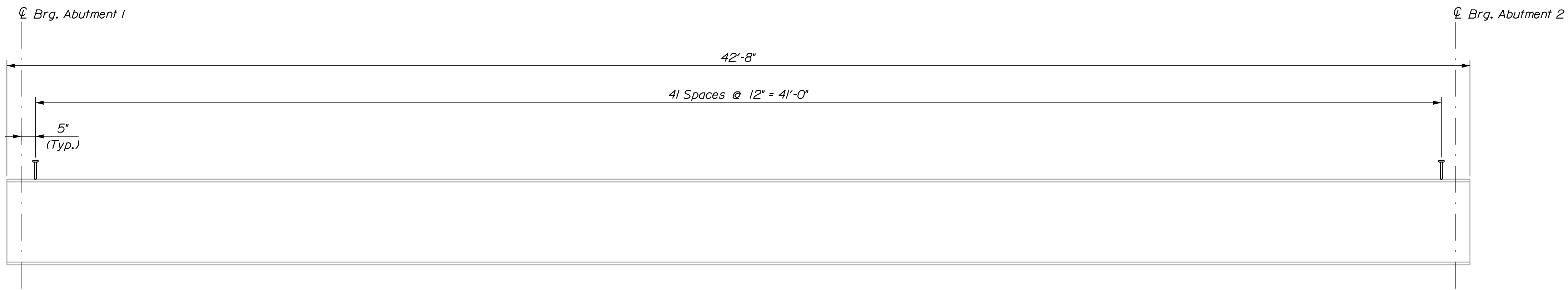
PROJ. MANAGER	DATE	BY
JASON STETSON	12/18/20	DPD
DESIGN-DETAILED	12/18/20	RSB
CHECKED-REVIEWED		
DESIGN2-DETAILED		
DESIGN3-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER  
SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
**TYPICAL BRIDGE SECTIONS  
AND DETAILS**

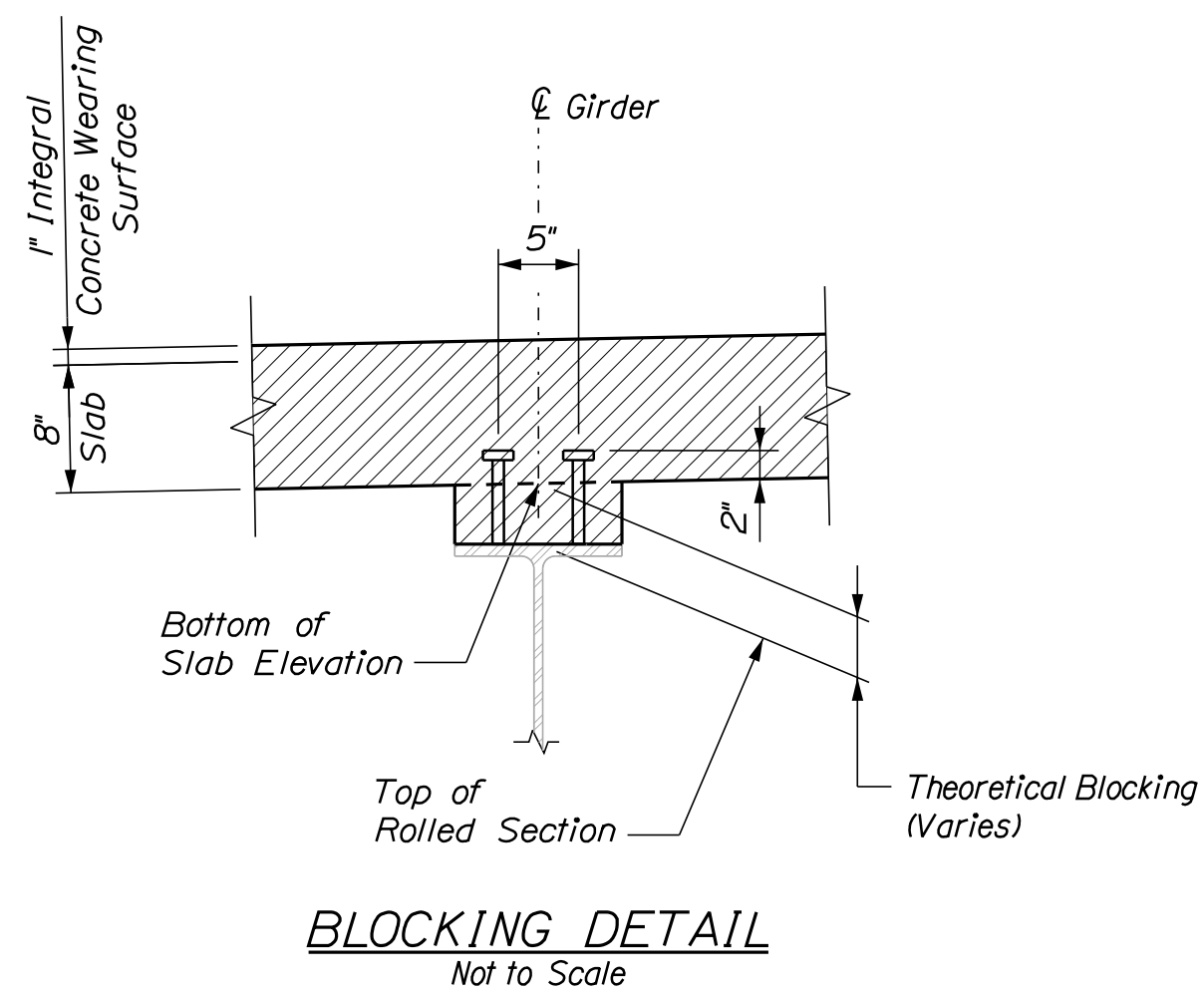
SHEET NUMBER

21

OF 26



**SHEAR CONNECTOR LAYOUT**  
 Double 7/8" Diameter Studs ~ 84 Studs Per Girder X 5 Girders = 420 Studs  
 (Interior Beam Shown, Exterior Beams Similar)  
 Scale: 1/2" = 1'-0"



BOTTOM OF SLAB ELEVATIONS IN FEET											
Girder	℄ Abut 1	4.2'	8.4'	12.5'	16.7'	20.9'	25.1'	29.3'	33.5'	37.6'	℄ Abut 2
G1	1493.78	1493.74	1493.71	1493.67	1493.62	1493.57	1493.52	1493.46	1493.40	1493.33	1493.26
G2	1493.85	1493.81	1493.77	1493.73	1493.68	1493.63	1493.58	1493.52	1493.46	1493.40	1493.34
G3	1493.93	1493.89	1493.85	1493.80	1493.76	1493.71	1493.66	1493.60	1493.54	1493.48	1493.42
G4	1493.79	1493.75	1493.70	1493.66	1493.61	1493.56	1493.51	1493.46	1493.40	1493.33	1493.27
G5	1493.64	1493.61	1493.57	1493.53	1493.49	1493.44	1493.38	1493.32	1493.26	1493.20	1493.13

**SHEAR STUD NOTES**

1. If lead paint is encountered while cleaning top flanges, the Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste. Payment for this work shall be considered incidental to related concrete items. See General Construction Notes on Estimated Quantities and Notes sheet.
2. The shear studs shall be tall enough to provide the minimum 2" penetration into the proposed deck.

Date: 12/18/2020

Username: PDonovan

Division: BRIDGE

Filename: 022\_SteelDet.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 3524  
WIN  
022316.00  
BRIDGE PLANS

CAMBRIDGE BRIDGE OVER  
SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME

MISCELLANEOUS DETAILS

SHEET NUMBER

22

OF 26

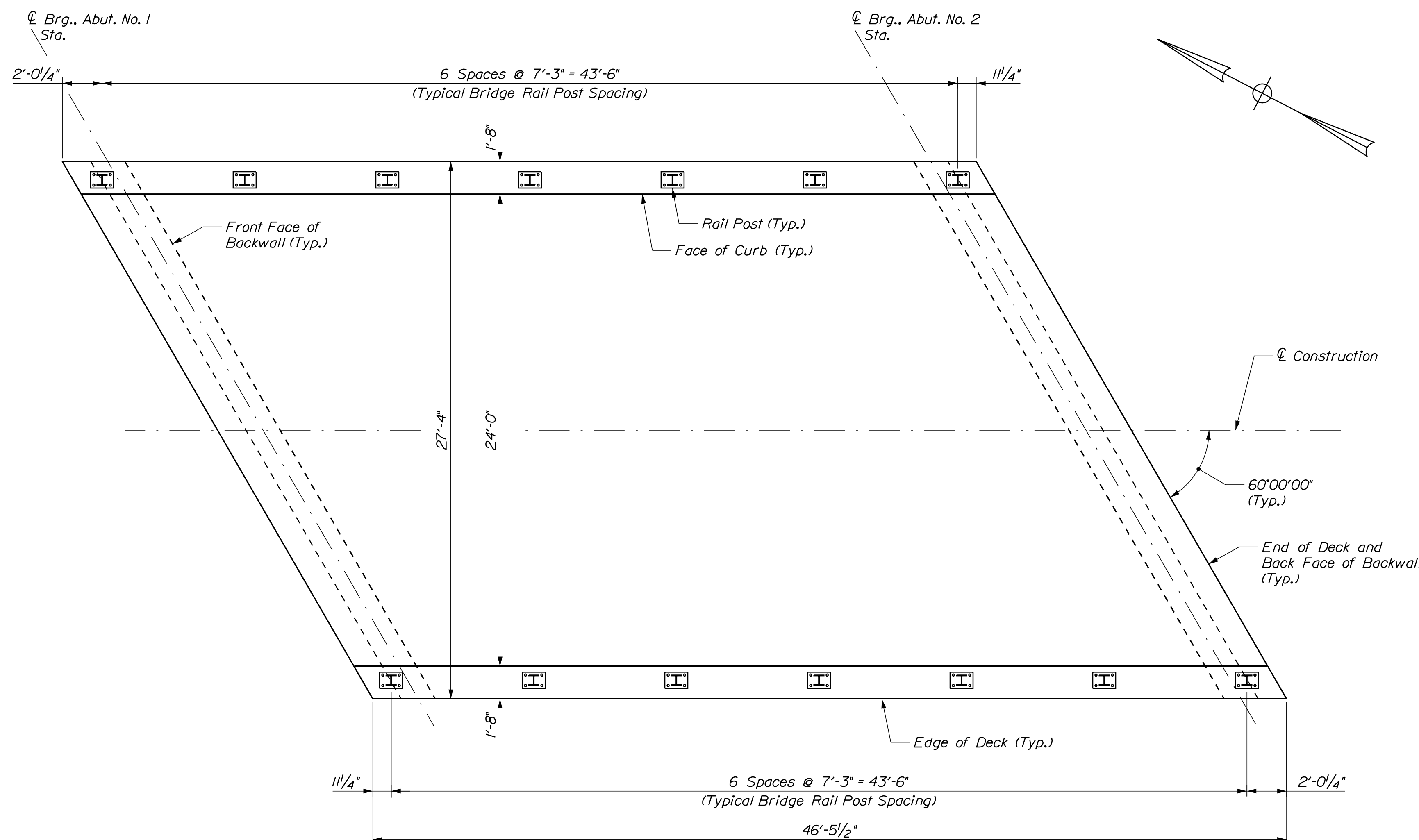
PROJ. MANAGER	JASON STETSON	BY	DATE
DESIGN-DETAILED	WEB	DPD	12/18/20
CHECKED-REVIEWED	ONE	RSB	12/18/20
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Date: 12/18/2020

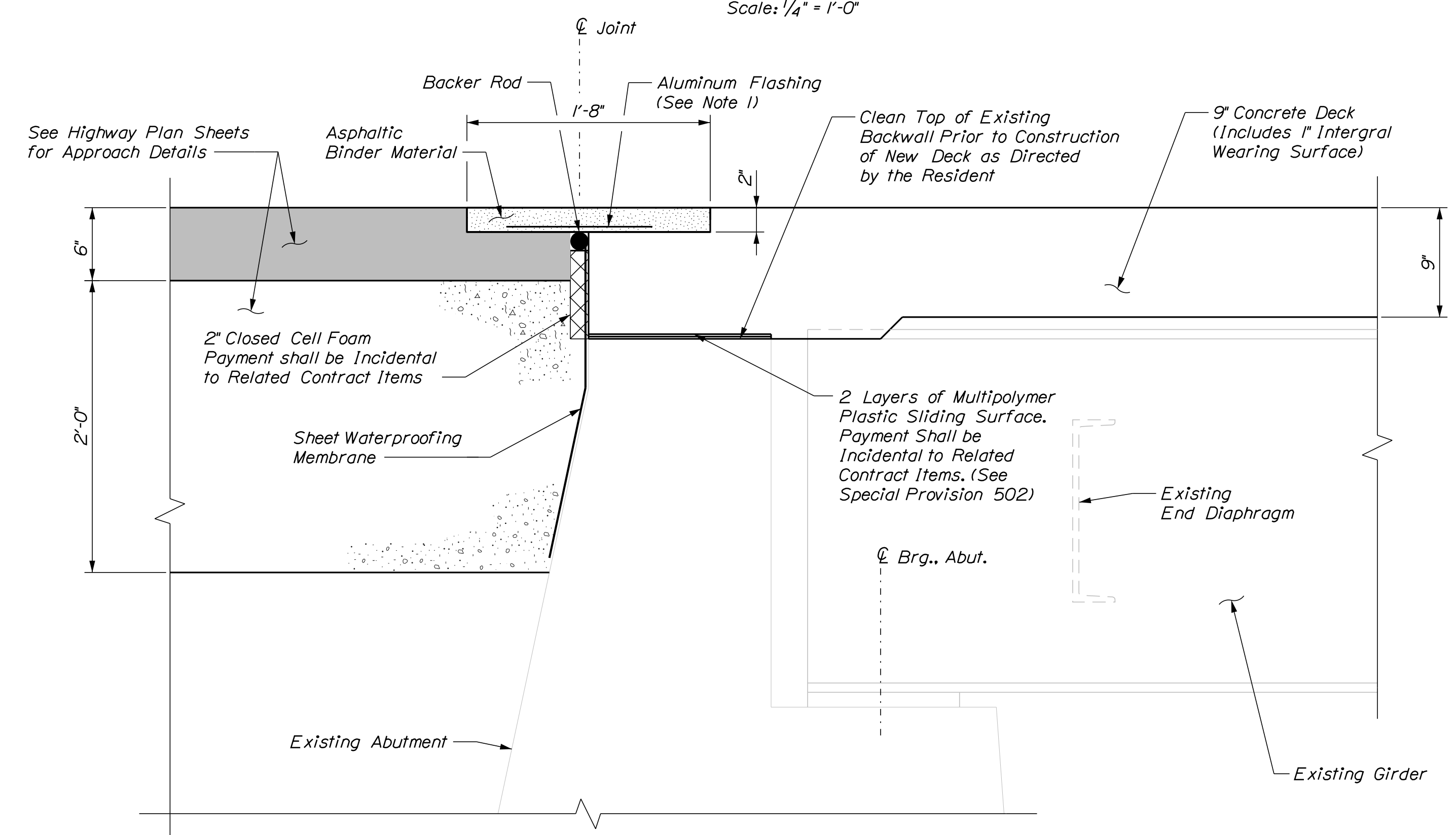
Username: PDonovan

Division: BRIDGE

Filename: 023\_deckDet.dgn



**DECK PLAN**  
Scale: 1/4" = 1'-0"



**PROPOSED TYPICAL SECTION AT ABUTMENTS**  
Scale: 1 1/2" = 1'-0"

**NOTE:**  
1. Aluminum flashing shall be used in place of a 1/4" steel bridging plate.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2231600  
BRIDGE NO. 3524 WIN 022316.00  
BRIDGE PLANS



PROJ. MANAGER	JASON STETSON	DATE
DESIGN-DETAILED	MEB	12/18/20
CHECKED-REVIEWED	DPD	12/18/20
DESIGN2-DETAILED2	RSB	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CAMBRIDGE BRIDGE OVER SWIFT CAMBRIDGE RIVER  
OXFORD COUNTY  
GRAFTON TOWNSHIP ME  
**DECK PLAN AND DETAILS**

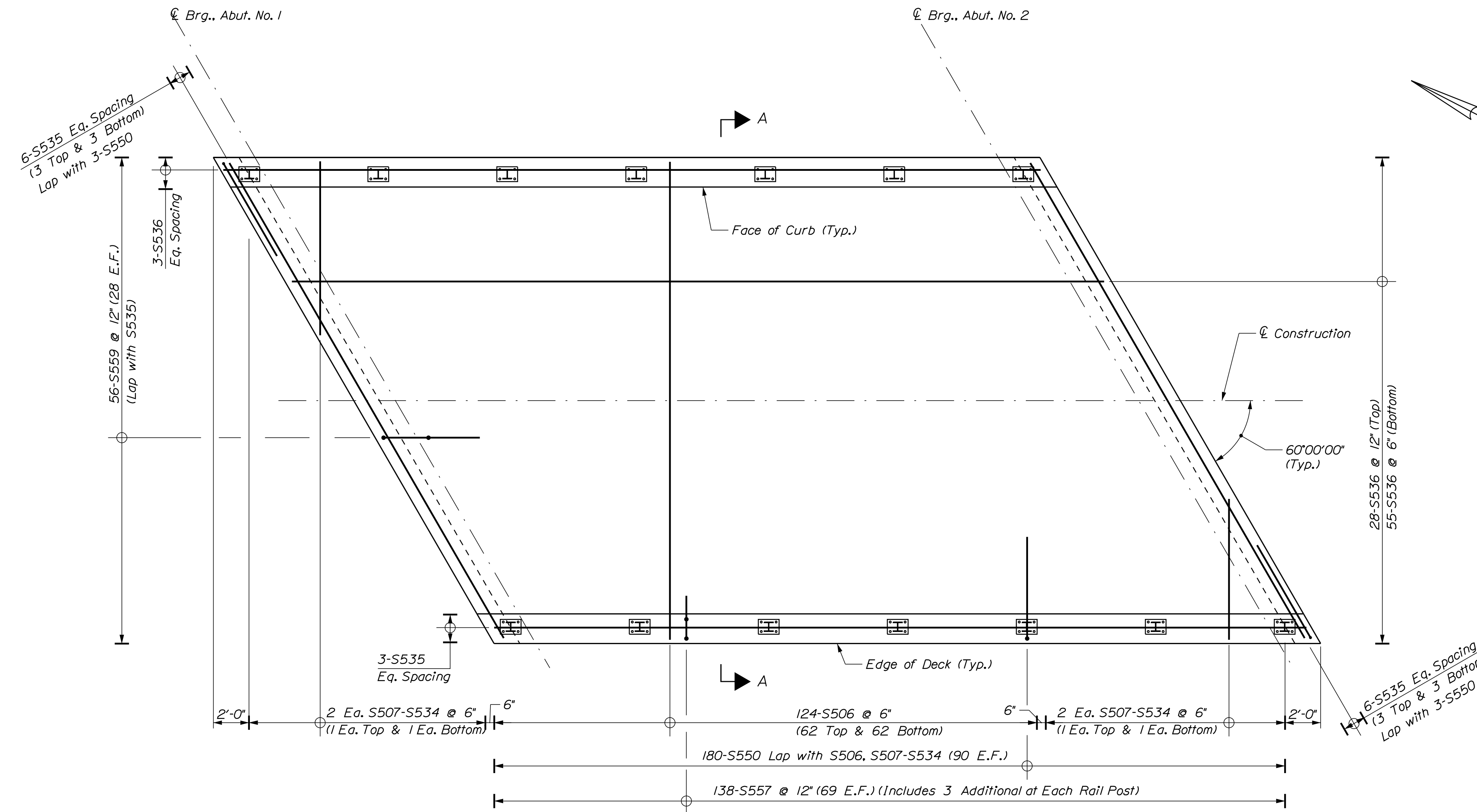
SHEET NUMBER  
**23**  
OF 26

Date: 12/18/2020

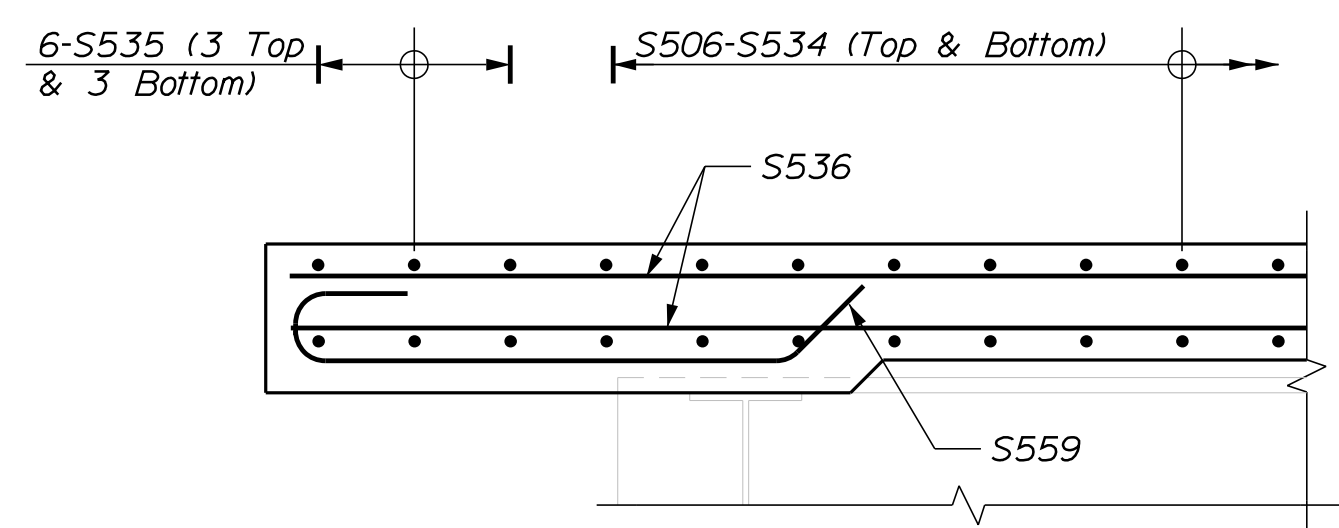
Username: PDonovan

Division: BRIDGE

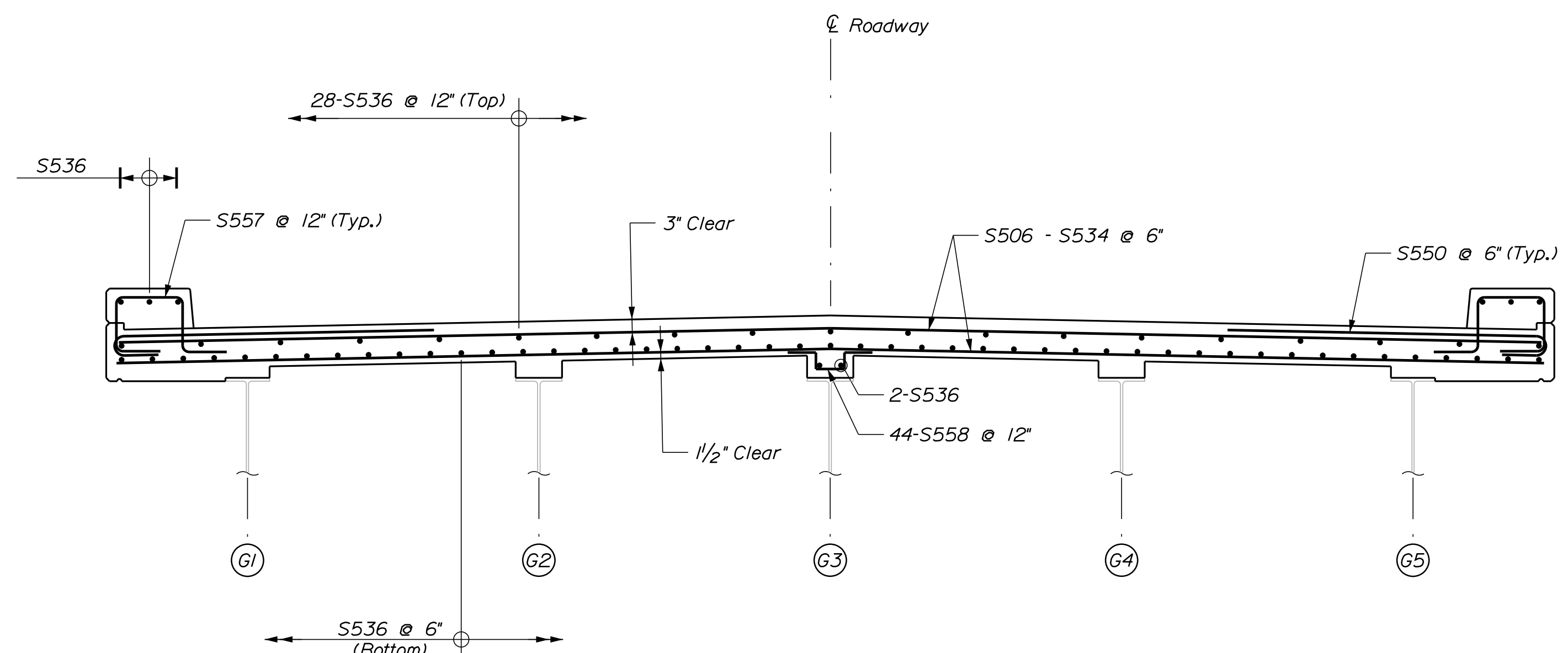
Filename: 024\_deckrein.dgn



**DECK PLAN**  
Scale: 1/4" = 1'-0"



**DECK END SECTION**  
Not to Scale



**SECTION A-A**  
(Looking Upstation)  
Scale: 1/2" = 1'-0"

**REINFORCING KEY**  
N.F. = Near Face  
F.F. = Far Face  
E.F. = Each Face  
▲ = Cut in Field



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 3524  
WIN  
22316.00

CAMBRIDGE BRIDGE OVER  
SWIFT CAMBRIDGE RIVER  
GRAFTON TOWNSHIP ME  
OXFORD COUNTY

**DECK REINFORCEMENT**

SHEET NUMBER

24

OF 26

BRIDGE PLANS



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 \_\_\_\_\_  
 Deciduous \_\_\_\_\_  
 Water Line \_\_\_\_\_  
 Ledge \_\_\_\_\_  
 Fence CHAIN LINK \_\_\_\_\_  
 Sign \_\_\_\_\_

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

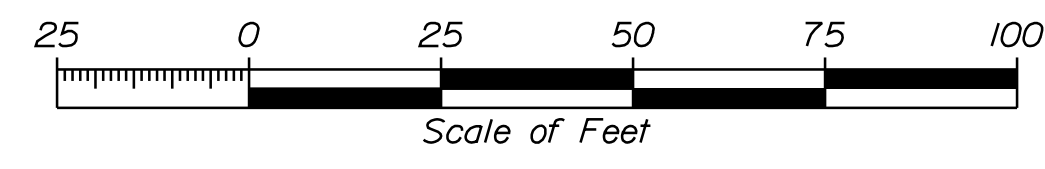
Sanitary Sewer \_\_\_\_\_  
 Telephone Line \_\_\_\_\_  
 Electric Line \_\_\_\_\_  
 Water Line \_\_\_\_\_  
 Underdrain Line \_\_\_\_\_  
 Gas Line \_\_\_\_\_  
 Guardrail \_\_\_\_\_  
 Culvert \_\_\_\_\_

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 ABUTTING PROPERTY OWNERS.



STATE OF MAINE  
 REGISTRY OF DEEDS  
 COUNTY OF \_\_\_\_\_  
 RECEIVED \_\_\_\_\_, 20\_\_\_\_  
 AT \_\_\_\_\_ HRS. \_\_\_\_\_ MINS. \_\_\_\_\_ M.  
 AND RECORDED IN  
 PLAN BOOK \_\_\_\_\_  
 (OR FILE NO.) \_\_\_\_\_, PAGE \_\_\_\_\_  
 ATTEST: \_\_\_\_\_ REGISTRAR

CURVE DATA #1  
 PI = 392+82.69  
 D = 2°51'53.2"  
 Δ = 2°23'59.4" Lt.  
 R = 2000.00'  
 L = 83.77'  
 T = 41.89'  
 E = 0.44'

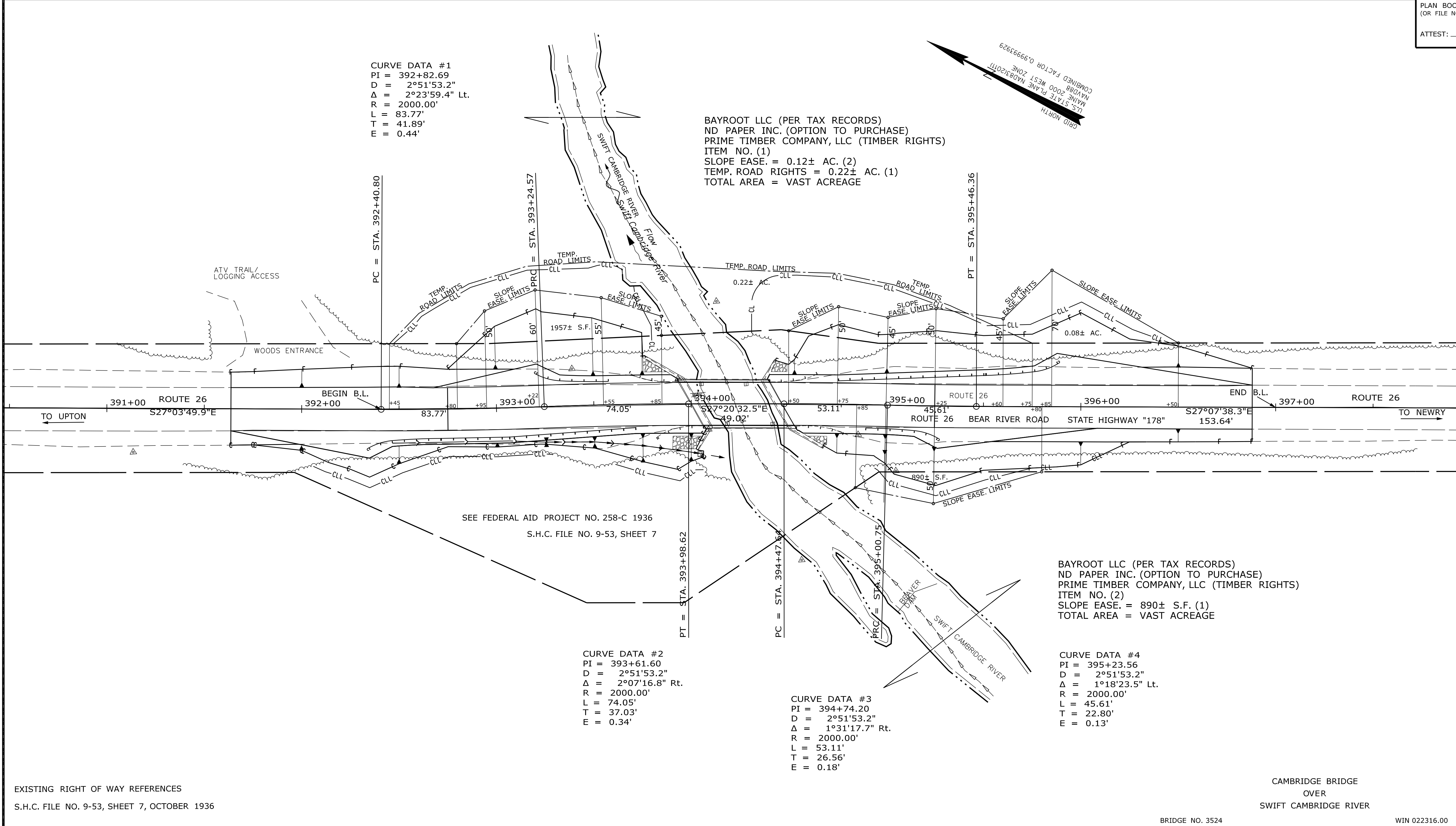
BAYROOT LLC (PER TAX RECORDS)  
 ND PAPER INC. (OPTION TO PURCHASE)  
 PRIME TIMBER COMPANY, LLC (TIMBER RIGHTS)  
 ITEM NO. (1)  
 SLOPE EASE. = 0.12± AC. (2)  
 TEMP. ROAD RIGHTS = 0.22± AC. (1)  
 TOTAL AREA = VAST ACREAGE

BAYROOT LLC (PER TAX RECORDS)  
 ND PAPER INC. (OPTION TO PURCHASE)  
 PRIME TIMBER COMPANY, LLC (TIMBER RIGHTS)  
 ITEM NO. (2)  
 SLOPE EASE. = 890± S.F. (1)  
 TOTAL AREA = VAST ACREAGE

CURVE DATA #2  
 PI = 393+61.60  
 D = 2°51'53.2"  
 Δ = 2°07'16.8" Rt.  
 R = 2000.00'  
 L = 74.05'  
 T = 37.03'  
 E = 0.34'

CURVE DATA #3  
 PI = 394+74.20  
 D = 2°51'53.2"  
 Δ = 1°31'17.7" Rt.  
 R = 2000.00'  
 L = 53.11'  
 T = 26.56'  
 E = 0.18'

CURVE DATA #4  
 PI = 395+23.56  
 D = 2°51'53.2"  
 Δ = 1°18'23.5" Lt.  
 R = 2000.00'  
 L = 45.61'  
 T = 22.80'  
 E = 0.13'



EXISTING RIGHT OF WAY REFERENCES  
 S.H.C. FILE NO. 9-53, SHEET 7, OCTOBER 1936

BRIDGE NO. 3524 WIN 022316.00

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	PNS	
FINAL RIGHT OF WAY	PNS	
AREAS		

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460  
 GRAFTON TOWNSHIP  
 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 \_\_\_\_\_

STATE HIGHWAY "178"  
 ROUTE 26 BEAR RIVER ROAD  
 GRAFTON TOWNSHIP OXFORD COUNTY  
 FEDERAL AID PROJECT NO. 2231600  
 MAY 2020 RIGHT-OF-WAY MAP  
 SCALE 1" = 25' SHEET 1 OF 1  
 D.O.T. FILE NO. 9-411

SHEET NUMBER  
**26**  
 OF 26

Date: \$date\$

Username: \$user\$

Division: \$wkgroup\$

Filename: \$file\$