

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



### SPECIFICATIONS

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

### DESIGN LOADING

Live Load ..... HL - 93

### TRAFFIC DATA

Current (2018) AADT ..... 200  
 Future (2028) AADT ..... 220  
 Future (2038) AADT ..... 240  
 DHV - % of AADT ..... 15  
 Design Hour Volume ..... 36  
 Heavy Trucks (% of AADT) ..... 10  
 Heavy Trucks (% of DHV) ..... 10  
 Directional Distribution (% of DHV) ..... 60  
 18 kip Equivalent P 2.0 ..... 8  
 18 kip Equivalent P 2.5 ..... 7  
 Design Speed (mph) ..... 25

### MATERIALS

Concrete:  
 Curbs & Transition Barriers ..... Class "LP"  
 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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## ISLAND FALLS AROOSTOOK COUNTY RANDALL BRIDGE OVER WEST BRANCH OF THE MATTAWAMKEAG RIVER OLD PATTEN ROAD PROJECT NO. STP-2173(200) PROJECT LENGTH 0.070 mi. BRIDGE NO. 2703

### UTILITIES

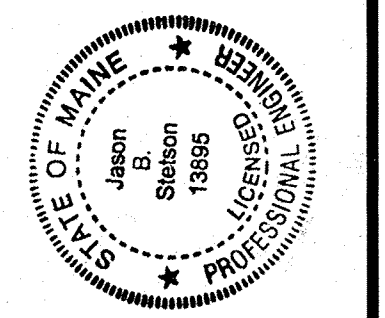
Emera Maine                      FairPoint Communications  
 Charter Communications      Island Falls Water

### MAINTENANCE OF TRAFFIC

Bridge/road closure with off site detour.

<b>PROJECT LOCATION:</b>	Randall Bridge (Old Patten Road) over West Branch of Mattawamkeag River Latitude 46°0'44.06"N, Longitude 68°16'35.41W
<b>PROGRAM AREA:</b>	Bridge
<b>OUTLINE OF WORK:</b>	Bridge Deck Replacement and Wingwall Rehabilitation

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>	11/16/2018	11-26-18
CHIEF ENGINEER: <i>[Signature]</i>		



*[Signature]*  
 SIGNATURE  
 13895  
 P.E. NUMBER  
 11/16/2018  
 DATE

PROJECT INFORMATION	
PROGRAM	BRIDGE
PROJECT MANAGER	JASON STETSON
DESIGNER	AHMED SHKARA
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

ISLAND FALLS  
RANDALL BRIDGE  
**TITLE SHEET**

SHEET NUMBER  
**1**  
OF 17

WIN021732.00

Date: 11/16/2018  
 Username: armano, j.paradis  
 Division: BRIDGE  
 Filename: \\OU\BRIDGE\_VMS\JA\U01\_L\_111te.dgn



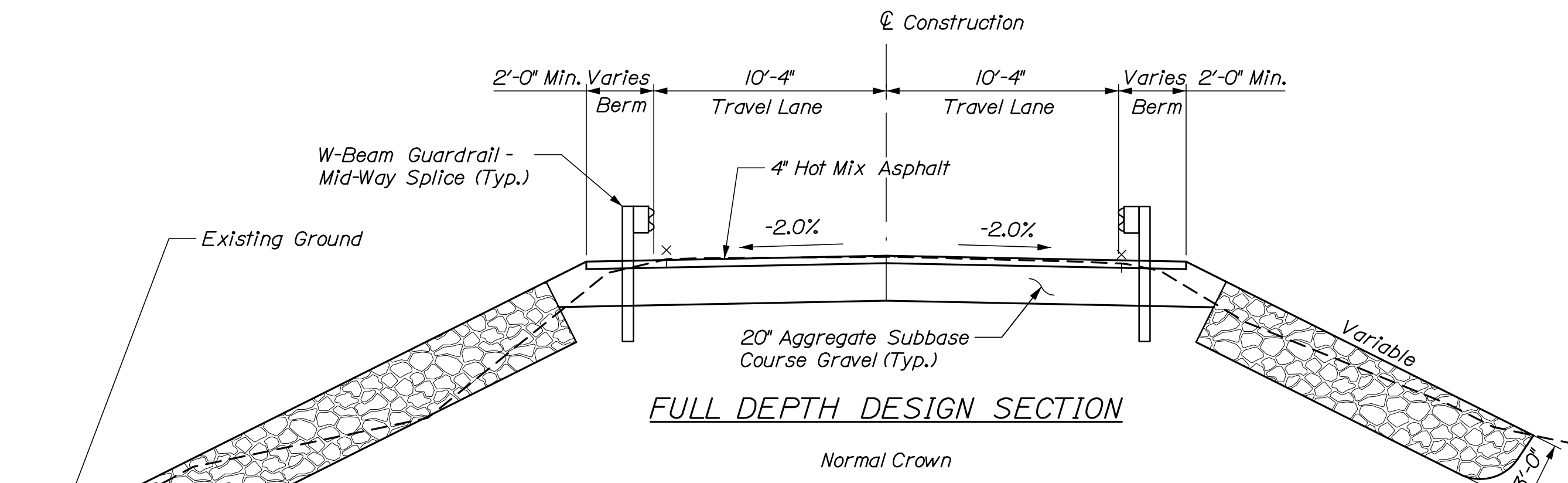


Date: 10/30/2018

Username:

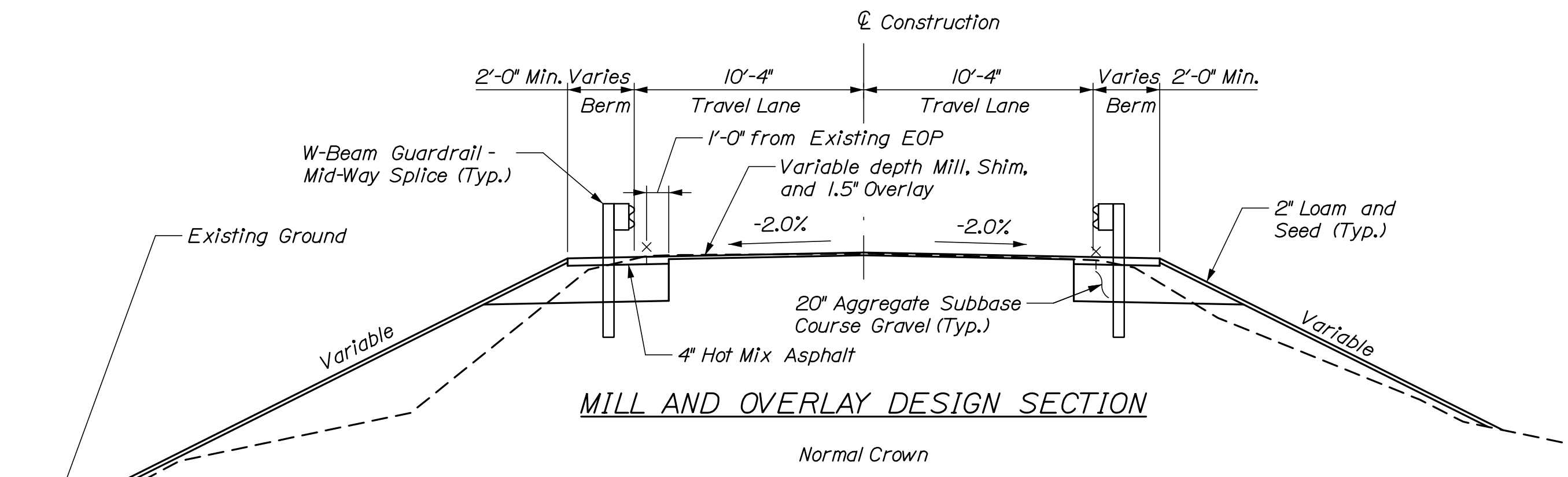
Division:

Filename: 004\_Typical Sections.dgn



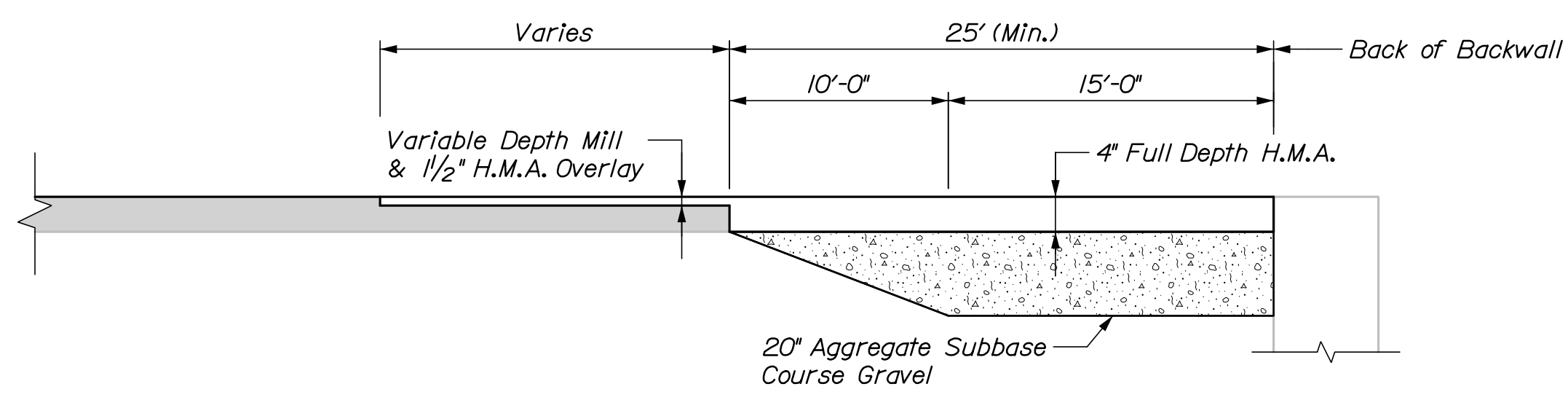
FULL DEPTH DESIGN SECTION

Normal Crown



MILL AND OVERLAY DESIGN SECTION

Normal Crown



PAVEMENT TRANSITION DETAIL

N.T.S.

BRIDGE NO. 2703	WIN	21732.00	BRIDGE PLANS
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PROJ. MGR.	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
JASON STETSON	A. SHKARA	R. MYERS	R. MYERS					

RANDALL BRIDGE  
WEST BRANCH OF MATTAWAMKEAG RIVER  
ISLAND FALLS AROOSTOOK COUNTY  
TYPICAL SECTIONS

SHEET NUMBER

4

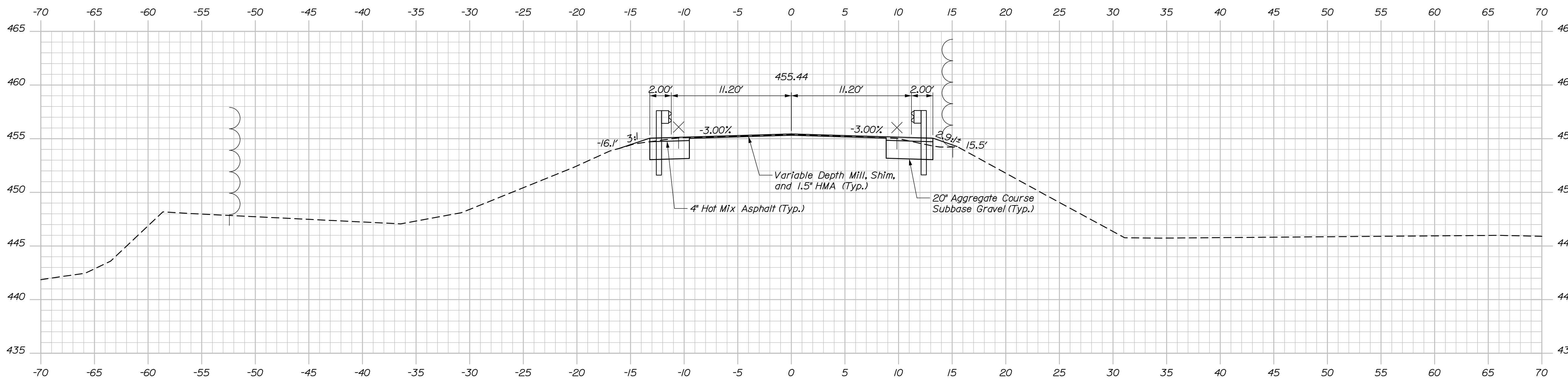
OF 17

Date: 10/30/2018

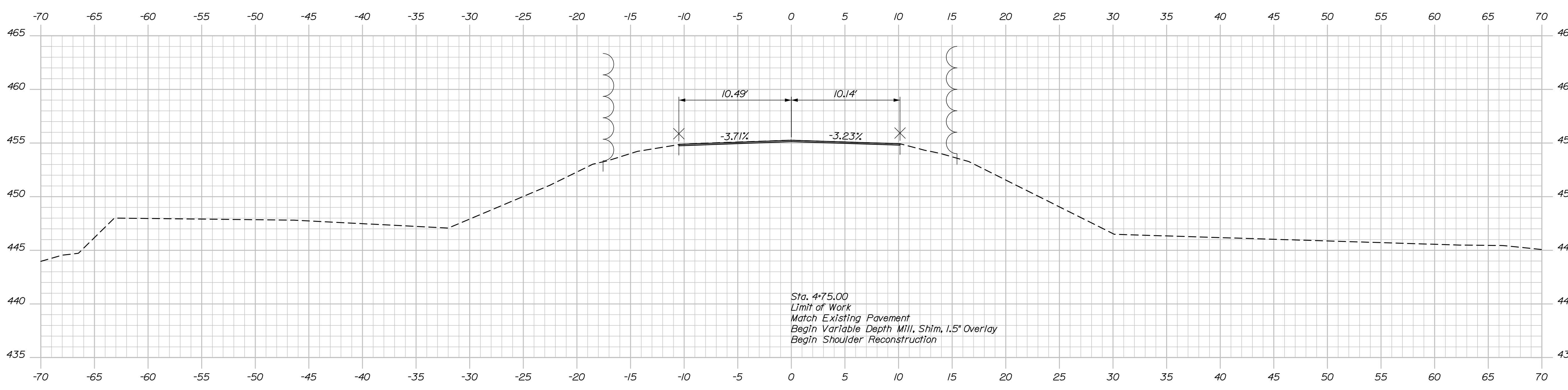
Username:

Division:

Filename: Xsect.dgn



Sta. 4+93.19, 11.33' Lt. to Sta. 5+43.22, 10.33' Lt. 5+00.00 Sta. 4+93.21, 11.33' Rt. to Sta. 5+43.24, 10.33' Rt.  
 Install W-Beam Guardrail - Mid-Way Splice Tangent Terminal  Install W-Beam Guardrail - Mid-Way Splice Tangent Terminal



Sta. 4+75.00  
 Limit of Work  
 Match Existing Pavement  
 Begin Variable Depth Mill, Shim, 1.5" Overlay  
 Begin Shoulder Reconstruction

4+75.00

DATE	10/18	SIGNATURE
BY	R. MYERS	P.E. NUMBER
PROJ. MANAGER	JASON STETSON	DATE

DESIGN-DETAILED	A. SHKARA
CHECKED-REVIEWED	R. MYERS
DESIGN-DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

RANDALL BRIDGE  
 WEST BRANCH OF MATTAWAMKEAG RIVER  
 ISLAND FALLS AROOSTOOK COUNTY  
**CROSS SECTIONS**

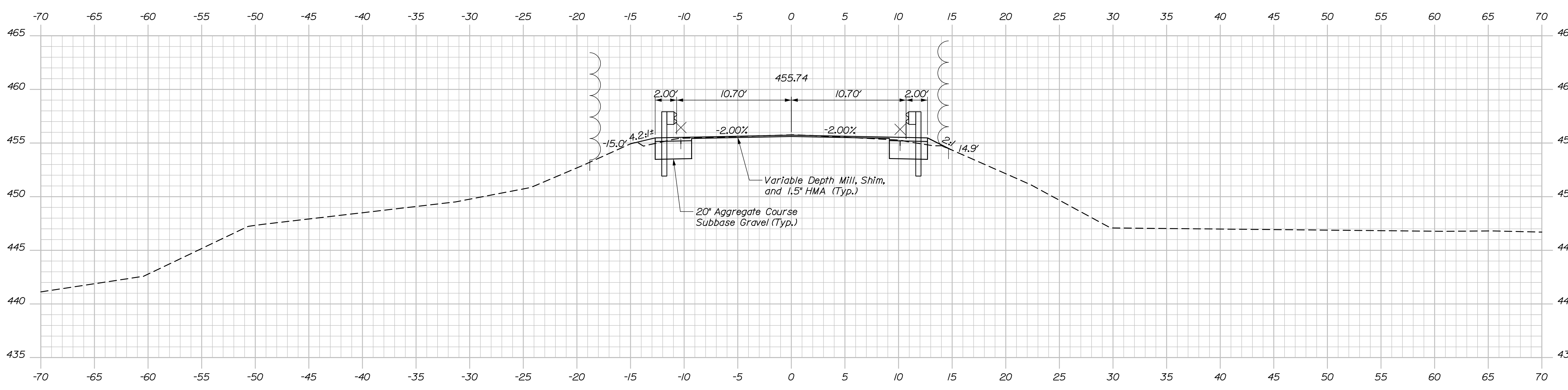
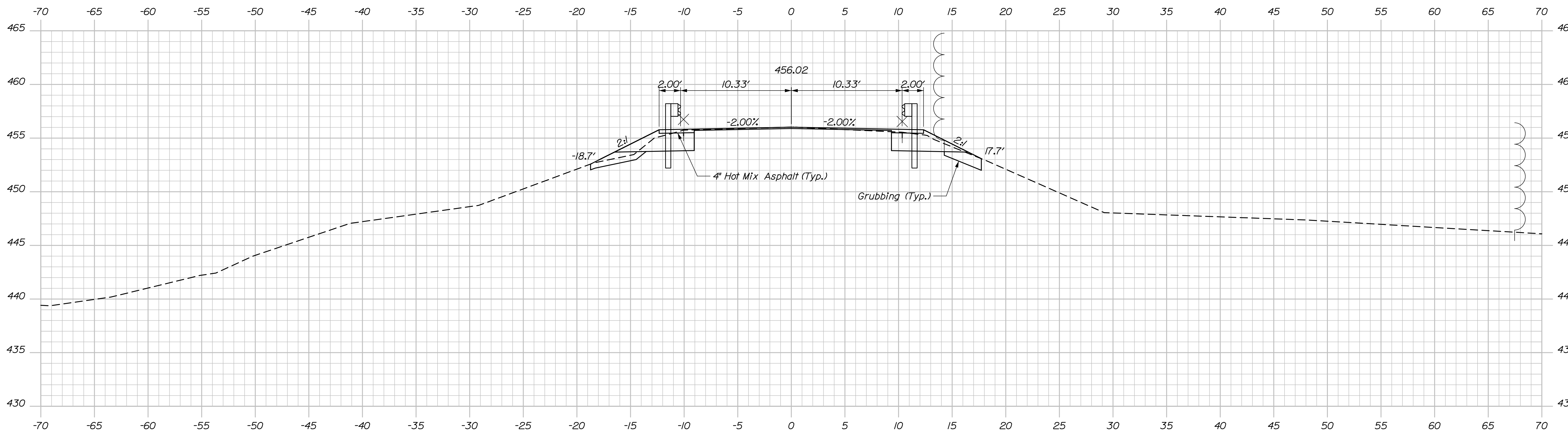
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**5**  
 OF 17

Date: 10/30/2018

Username:

Division:

Filename: Xsect.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-2173(200)  
WIN  
21732.00  
BRIDGE NO. 2703  
BRIDGE PLANS

PROJ. MANAGER	DATE	BY	DATE	DESIGN	CHECKED	DESIGNED	REVISIONS	FIELD CHANGES
JASON STETSON	10/18	R. MYERS	10/18	A. SHKARA	R. MYERS	R. MYERS	1	
							2	
							3	
							4	

RANDALL BRIDGE  
WEST BRANCH OF MATTAWAMKEAG RIVER  
ISLAND FALLS  
AROOSTOOK COUNTY  
CROSS SECTIONS

SHEET NUMBER  
6  
OF 17

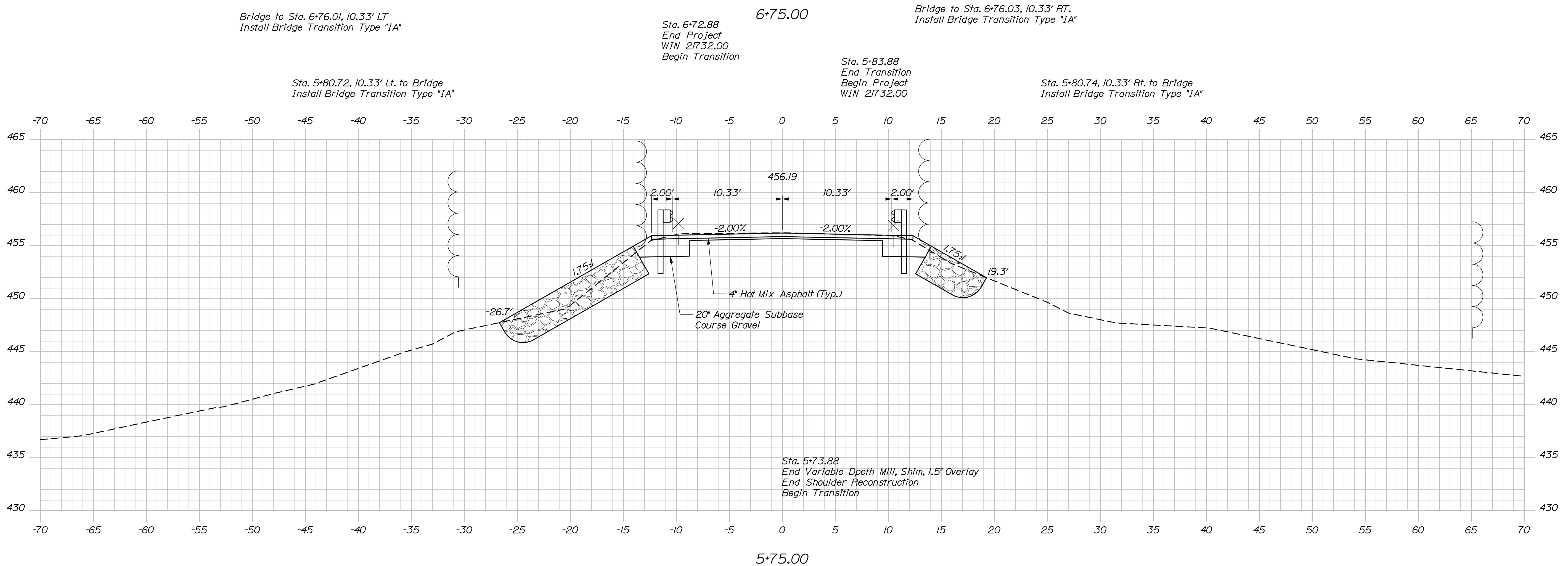
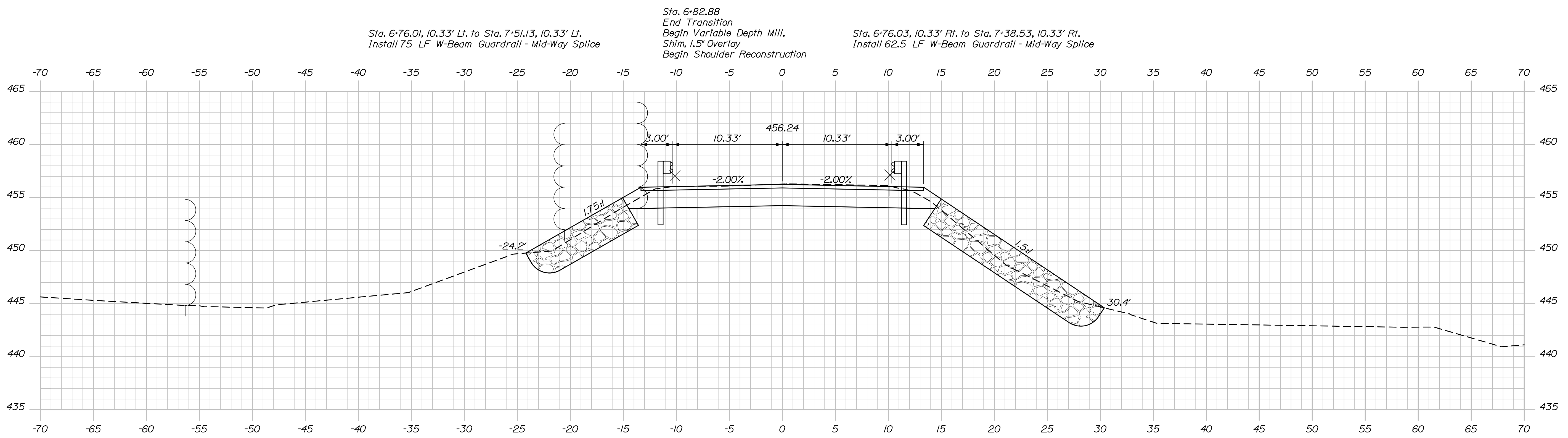
Sta. 5+25.00 to Sta. 5+50.00

Date: 10/30/2018

Username:

Division:

Filename: Xsect.dgn



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2173(200)		WIN 21732.00		BRIDGE NO. 2703		BRIDGE PLANS	
PROJ. MANAGER		DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2	
BY		DATE		DATE		DATE		DATE		DATE	
JASON STETSON		10/18		10/18		10/18		10/18		10/18	
A. SHKARA		R. MYERS		R. MYERS		R. MYERS		R. MYERS		R. MYERS	
SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE	
P.E. NUMBER		P.E. NUMBER		P.E. NUMBER		P.E. NUMBER		P.E. NUMBER		P.E. NUMBER	
DATE		DATE		DATE		DATE		DATE		DATE	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	
RANDALL BRIDGE		WEST BRANCH OF MATTAWAMKEAG RIVER		ISLAND FALLS		AROOSTOOK COUNTY		CROSS SECTIONS		SHEET NUMBER	
7		OF 17		OF 17		OF 17		OF 17		OF 17	

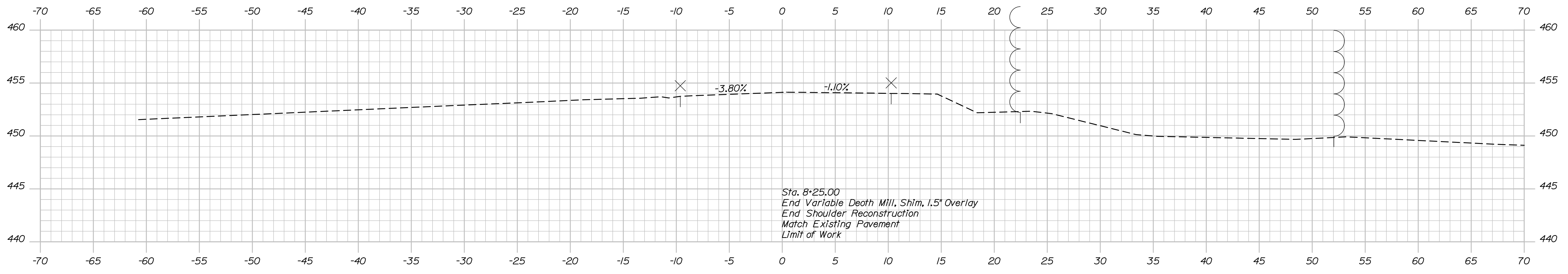


Date: 10/30/2018

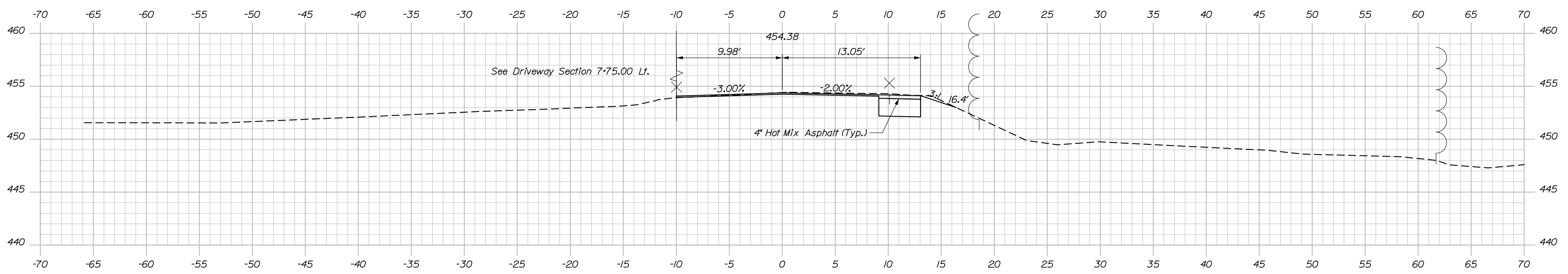
Username:

Division:

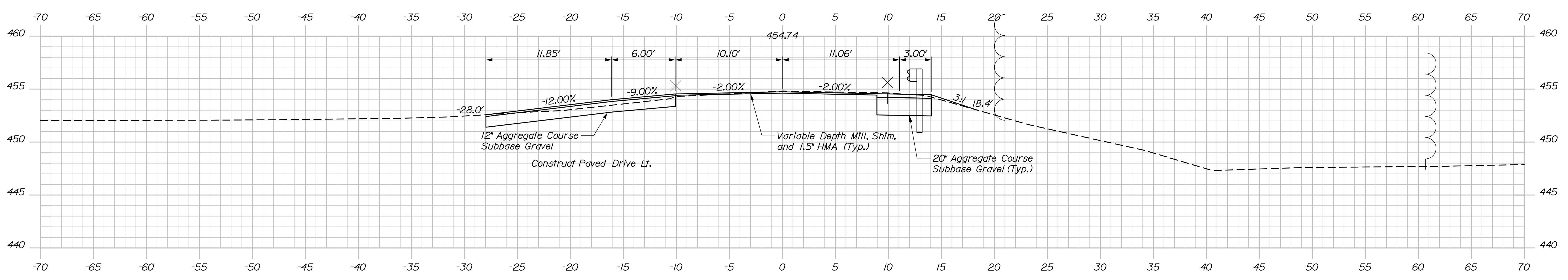
Filename: Xsect.dgn



8+25.00



8+00.00



7+75.00

DATE	SIGNATURE
DATE	P.E. NUMBER
DATE	DATE

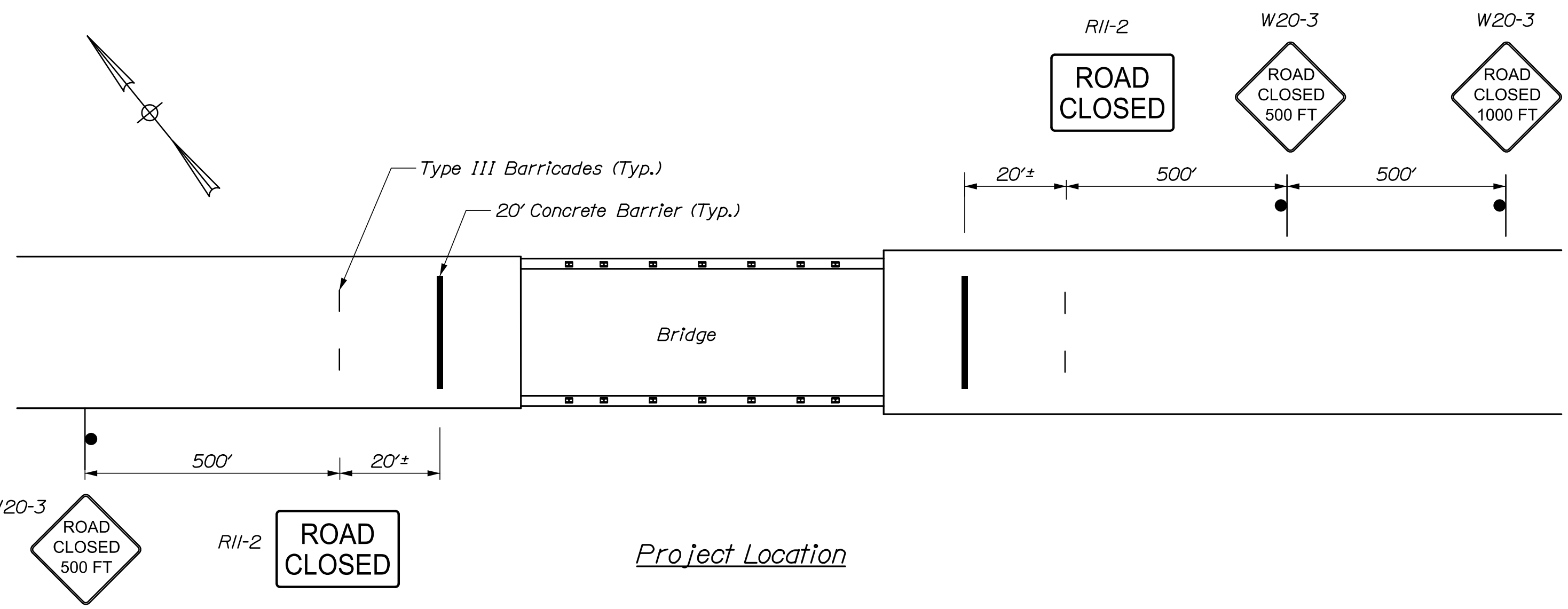
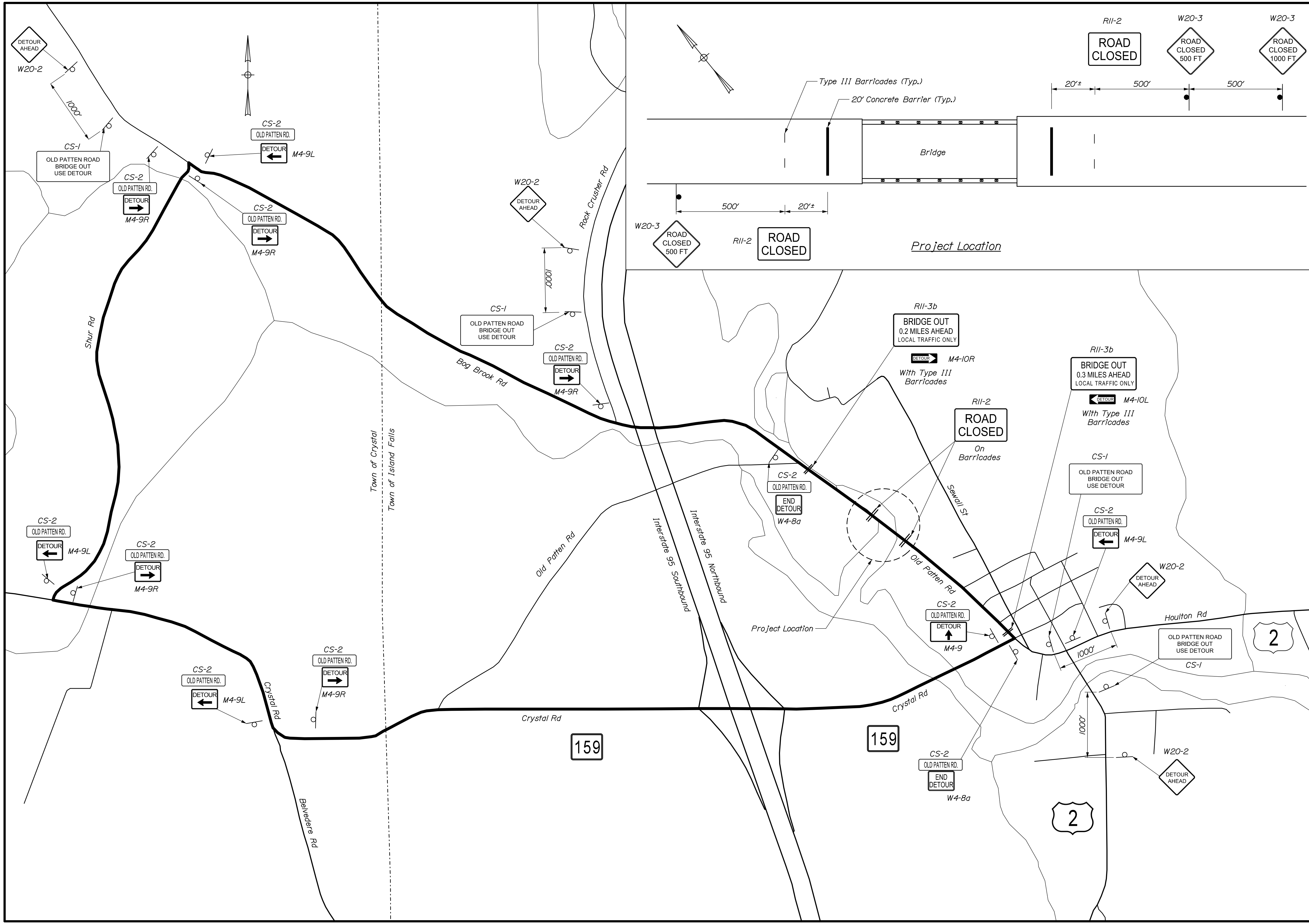
PROJ. MANAGER	JASON STETSON
DESIGN-DETAILED	A. SHKARA
CHECKED-REVIEWED	R. MYERS
DESIGN-DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

Date: 10/30/2018

Username:

Division:

Filename: 010\_Detour\_Plan.dgn



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-2173(200)		BRIDGE NO. 2703		WIN		21732.00		BRIDGE PLANS	
RANDALL BRIDGE WEST BRANCH OF MATTAWAMKEAG RIVER ISLAND FALLS AROOSTOOK COUNTY		DETOUR PLAN		SHEET NUMBER		10		OF 17			
PROJ. MANAGER	JASON STETSON	DATE	10/18	BY	HNTB	DATE	10/18	DESIGNED	A. SHKARA	SIGNATURE	
CHECKED	REVIEWED	R. MYERS		DESIGNED	REVIEWED	R. MYERS		DESIGNED	REVIEWED	R. MYERS	
REVISIONS 1				REVISIONS 1				REVISIONS 1			
REVISIONS 2				REVISIONS 2				REVISIONS 2			
REVISIONS 3				REVISIONS 3				REVISIONS 3			
REVISIONS 4				REVISIONS 4				REVISIONS 4			
FIELD CHANGES				P.E. NUMBER		DATE					

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	60"	30"	OLD PATTEN ROAD BRIDGE OUT USE DETOUR	4" 4" 4"	3" 3"		4	ORANGE	BLACK	1.5"	12.50 (50.00)	
CS-2	30"	12"	OLD PATTEN RD.	4"			12	ORANGE	BLACK		2.50 (30.00)	
M4-8a	24"	18"	END DETOUR	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			2	SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			3.00 (6.00)	
M4-9	30"	24"	DETOUR ↑				1				5.00 (5.00)	
M4-9L	30"	24"	DETOUR ←				4				5.00 (20.00)	
M4-9R	30"	24"	DETOUR →				5				5.00 (25.00)	
M4-10L M4-10R	48"	18"	DETOUR L-SHOWN, R-OPPOSITE				1 1				6.00 (6.00) (6.00)	
R11-2	48"	30"	ROAD CLOSED				2				10.00 (20.00)	
R11-3b (0.2) (0.3)	60"	30"	BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY				1 1				12.50 (12.50) (12.50)	
W20-2 (AHEAD)	48"	48"	DETOUR AHEAD				4				16.00 (64.00)	
W20-3 (500 FT) (1000 FT)	48"	48"	ROAD CLOSED XXXX				2 1				16.00 (32.00) (16.00)	

**Note:**

1. Sign summary included above is for the detour.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-2173(200)  
WIN  
21732.00  
BRIDGE NO. 2703  
BRIDGE PLANS

PROJ. MANAGER	JASON STETSON	DATE	
DESIGN-DETAILED	A. SHKARA	10/18	
CHECKED-REVIEWED	R. MYERS	10/18	
DESIGN-DETAILED	R. MYERS		SIGNATURE
REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

RANDALL BRIDGE  
WEST BRANCH OF MATTAWAMKEAG RIVER  
ISLAND FALLS AROOSTOOK COUNTY  
SIGN SUMMARY

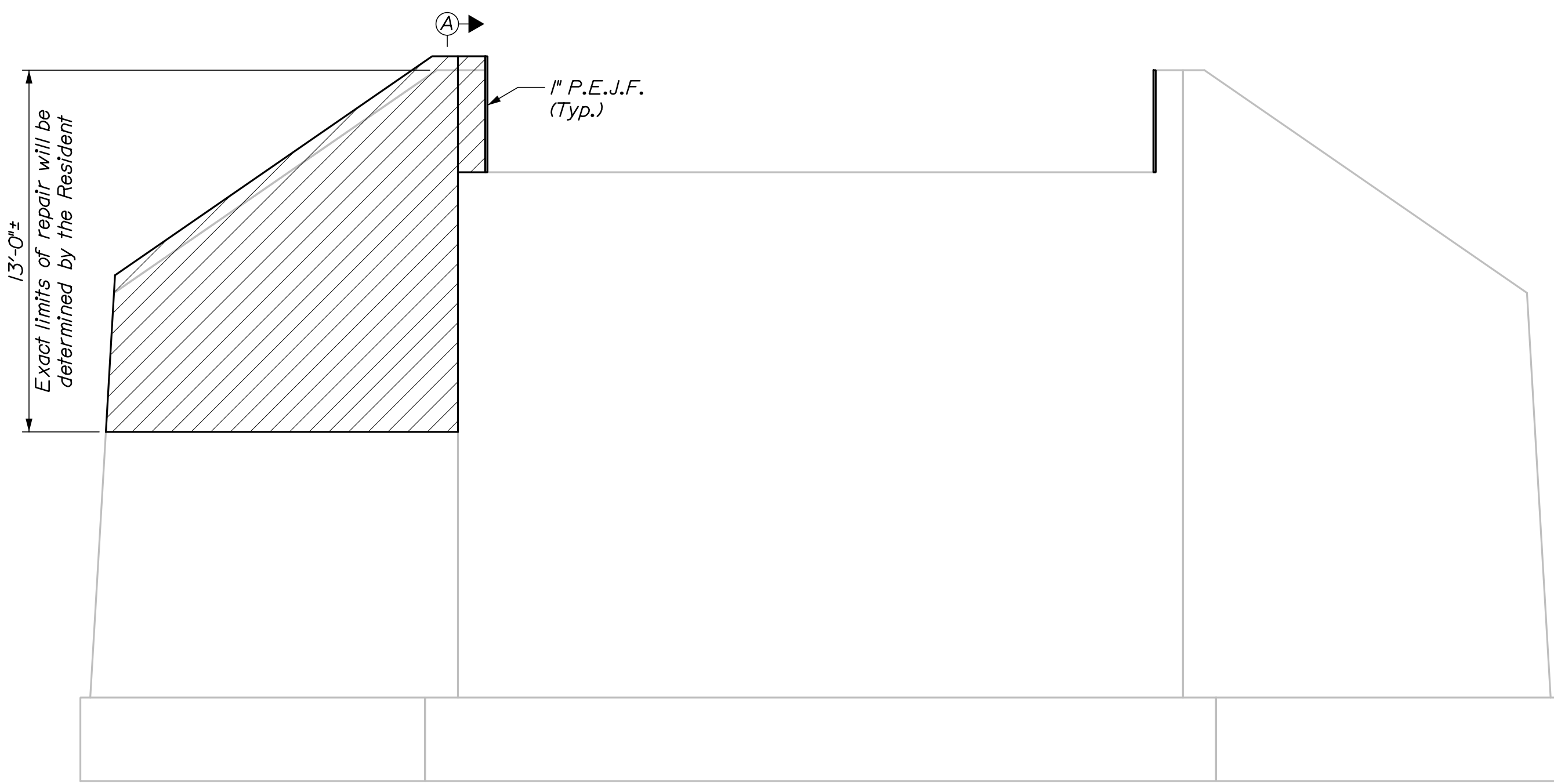
SHEET NUMBER  
**11**  
OF 17

Date: 10/30/2018

Username:

Division:

Filename: 012\_Abutment 1 Modifications.dgn



**WINGWALL NOTES:**

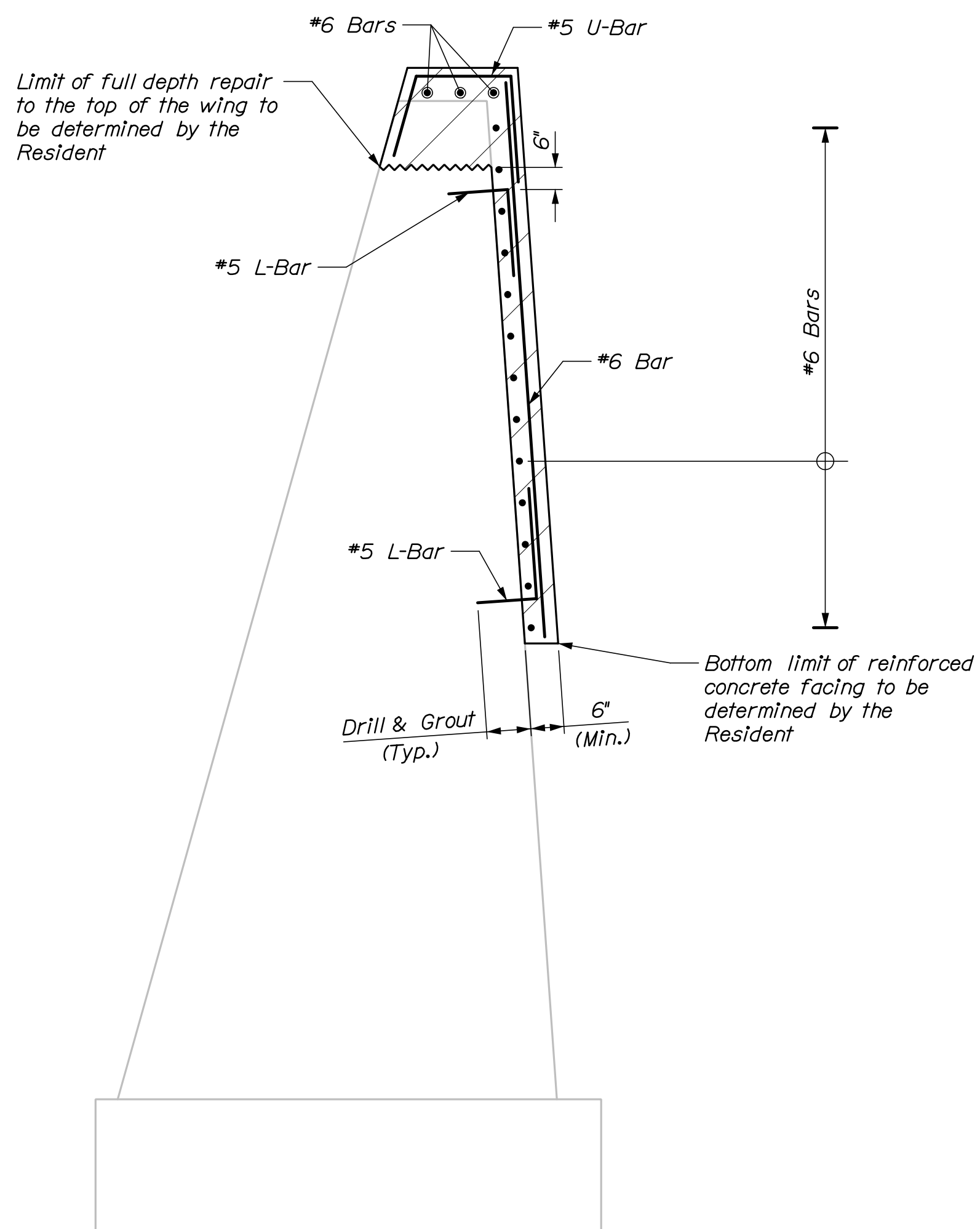
1. Reinforcing steel shall have 2 inches of cover unless otherwise noted.
2. All dimensions shall be verified in the field by the Contractor.
3. All exposed edges of concrete shall have a 3/4" chamfer unless otherwise noted.
4. Where drilling and anchoring reinforcement is specified, the Contractor shall use a material listed in the Maine Department of Transportation Qualified Products List of Concrete Adhesive Anchor Systems. The depth of embedment shall be sufficient to develop 125% of the yield strength of the bar per the manufacturer's recommendations or 12 inches, whichever is greater. Proposed anchoring material and embedment depth shall be submitted for approval. No separate payment will be made for drilling and anchoring of reinforcing steel, but shall be incidental to the related reinforcing pay item.
5. Payment for P.E.J.F. shall be incidental to related contract items.

**ABUTMENT NO. 1**

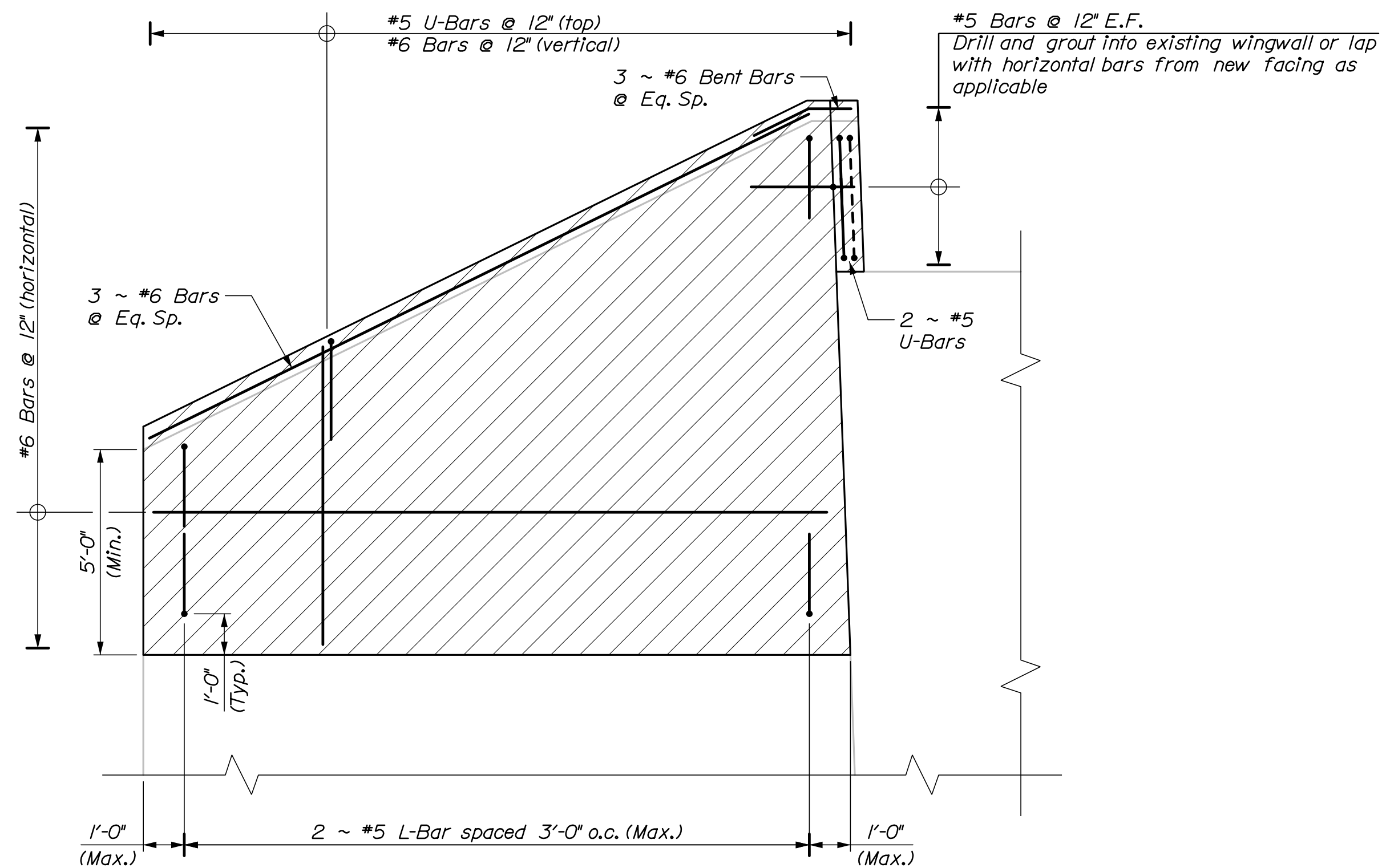
(ABUTMENT NO. 2 SIMILAR - DOWNSTREAM WING)

**LEGEND**

> = 8" Repair, with New Rebar Mat

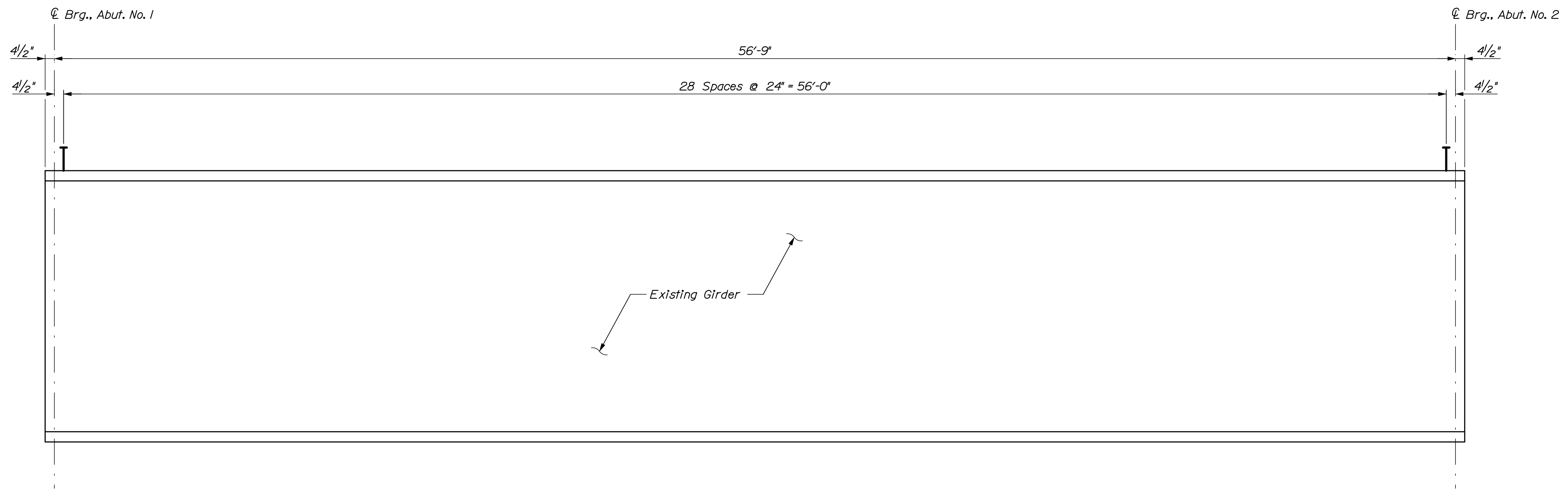


WINGWALL SECTION A-A



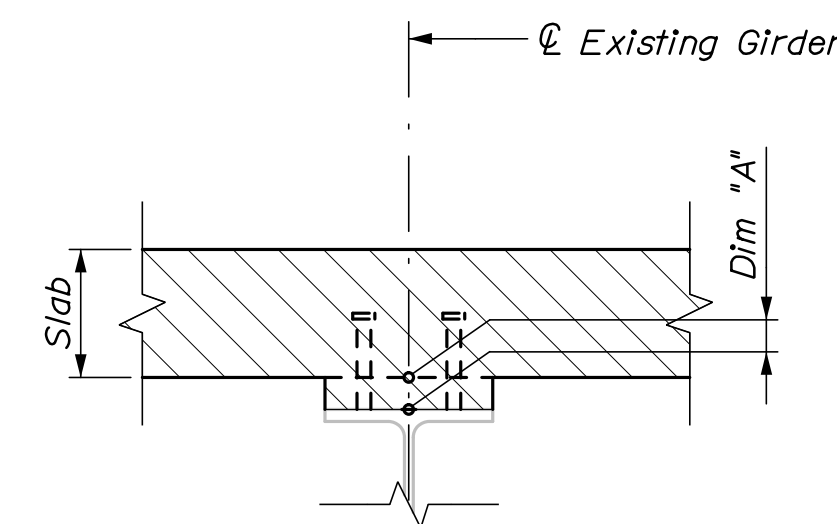
WINGWALL REINFORCING DETAIL

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2173(200)		WIN		BRIDGE NO. 2703		21732.00		BRIDGE PLANS	
RANDALL BRIDGE		WEST BRANCH OF MATTAWAMKEAG RIVER		ISLAND FALLS AROOSTOOK COUNTY		ABUTMENT REHABILITATION DETAILS		SHEET NUMBER		12		OF 17	
PROJ. MANAGER	JASON STETSON	DESIGN-DETAILED	A. SHKARA	CHECKED-REVIEWED	R. MYERS	DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3	
DATE	10/18	BY	R. MYERS	DATE	10/18	SIGNATURE		P.E. NUMBER		DATE			

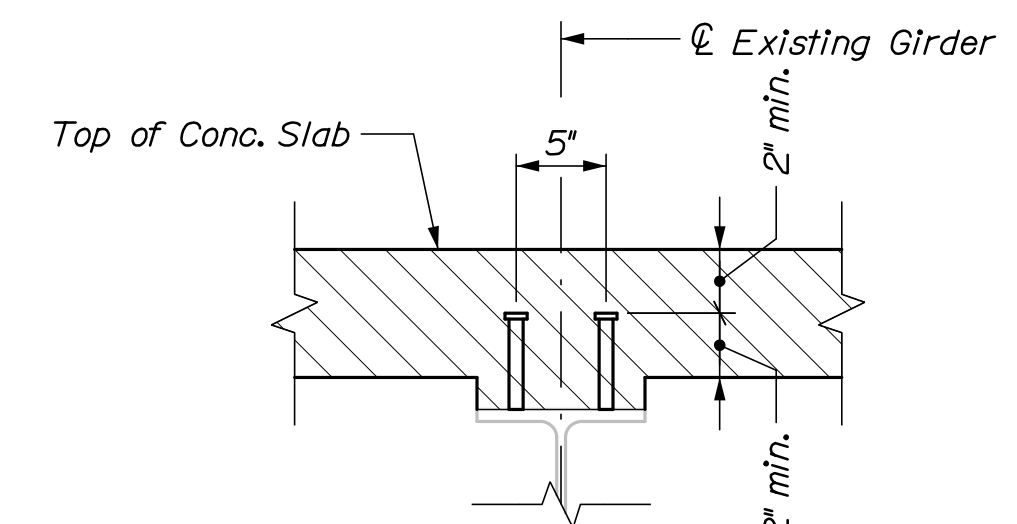


**SHEAR CONNECTOR LAYOUT ~ EXTERIOR & INTERIOR GIRDERS**  
 Double studs ~ 58 studs per girder (6) = 348 studs

Bottom of Slab Elevation in Feet											
Girder	℄ Brg. Abut. 1	0.1 x L	0.2 x L	0.3 x L	0.4 x L	0.5 x L	0.6 x L	0.7 x L	0.8 x L	0.9 x L	℄ Brg. Abut. 2
1	455.30	455.32	455.33	455.34	455.35	455.35	455.35	455.34	455.33	455.32	455.30
2	455.38	455.39	455.41	455.42	455.43	455.43	455.43	455.42	455.41	455.39	455.38
3	455.45	455.47	455.49	455.50	455.51	455.51	455.51	455.50	455.49	455.47	455.45
4	455.45	455.47	455.49	455.50	455.51	455.51	455.51	455.50	455.49	455.47	455.45
5	455.38	455.39	455.41	455.42	455.43	455.43	455.43	455.42	455.41	455.39	455.38
6	455.30	455.32	455.33	455.34	455.35	455.35	455.35	455.34	455.33	455.32	455.30



**BLOCKING DETAIL**



**SHEAR STUD SECTION**

Theoretical Blocking	
Girder	Dim "A"
G1	1"
G2	2"
G3	3"
G4	3"
G5	2"
G6	1"

**NOTES:**

- Prior to installing the proposed shear studs, the Contractor shall clean the top flange so that it is free of debris, rust, scale, oil, and other contaminants that would adversely affect the welding operation. 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.
- Span locations provided are based on the centerline of bearing to centerline of bearing length "L" for each girder.

Date: 10/30/2018

Username:

Division:

Filename: 013\_Shear Stud Layout.dgn

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-2173(200)

BRIDGE NO. 2703  
 WIN  
 21732.00  
 BRIDGE PLANS

PROJ. MANAGER	JASON STETSON	BY	DATE
DESIGN-DETAILED	A. SHKARA	HNIB	10/18
CHECKED-REVIEWED	R. MYERS	R. MYERS	10/18
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

RANDALL BRIDGE  
 WEST BRANCH OF MATTAWAMKEAG RIVER  
 ISLAND FALLS AROOSTOOK COUNTY  
 SUPERSTRUCTURE DETAILS

SHEET NUMBER

13

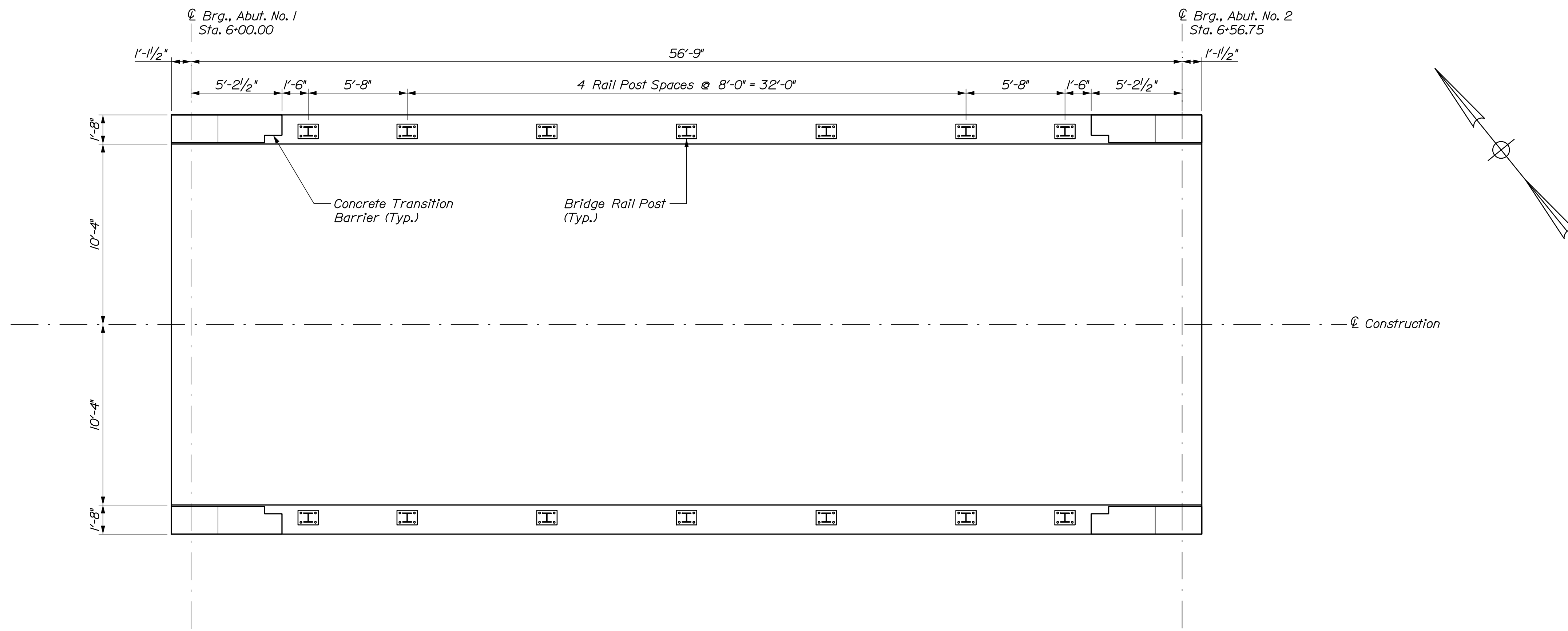
OF 17

Date: 10/30/2018

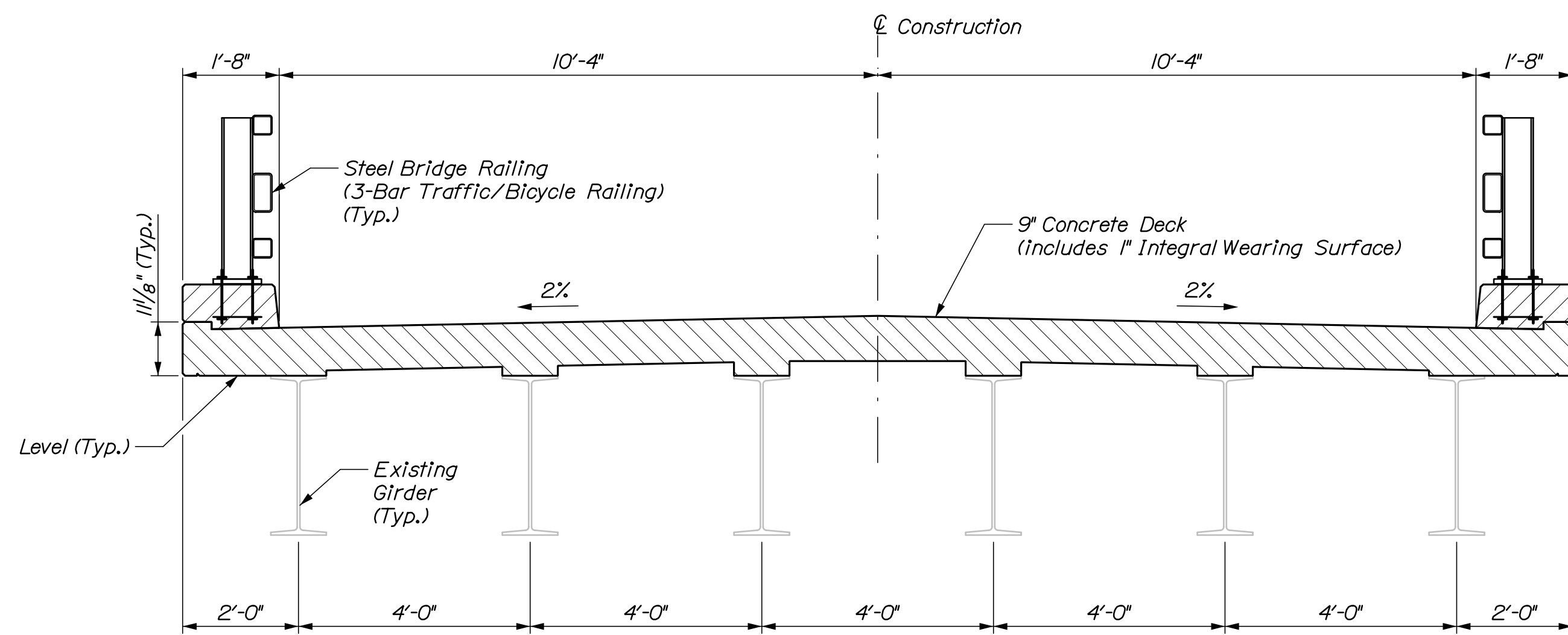
Username:

Division:

Filename: 014\_Superstructure Plan.dgn



SUPERSTRUCTURE PLAN



PROPOSED TYPICAL BRIDGE SECTION

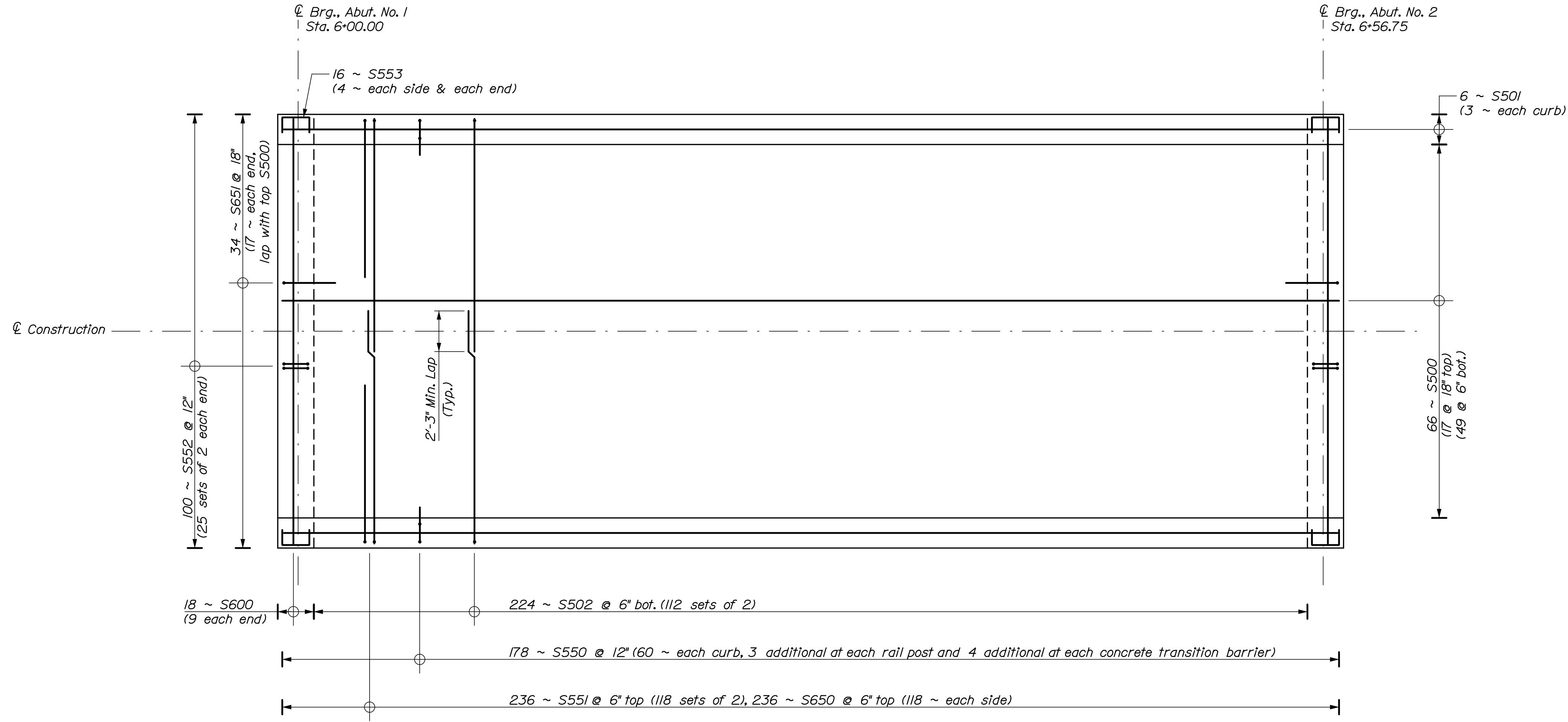
SUPERSTRUCTURE NOTES

1. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
2. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
3. The superstructure slab concrete, including backwall, shall be placed continuously and shall be kept plastic until the entire placement has been made.
4. Payment for reinforcing steel fabricated, delivered, and placed in the cast-in-place portion of the structural concrete slab will be considered incidental to the appropriate Standard Specifications Section 502 pay item.
5. At the Contractor's option, the the primary longitudinal deck reinforcement (S500 on Sheet 16) may be replaced with two lapped reinforcing bars. The lap length shall be a minimum of 2'-3" and the lap location shall be staggered across the bridge.
6. Precast Deck Panels will not be permitted as a substitute to the cast-in-place concrete deck.
7. The Contractor shall install transition barrier vertical closed stirrups as shown in Standard Details Section 526 prior to placement of the curb concrete.

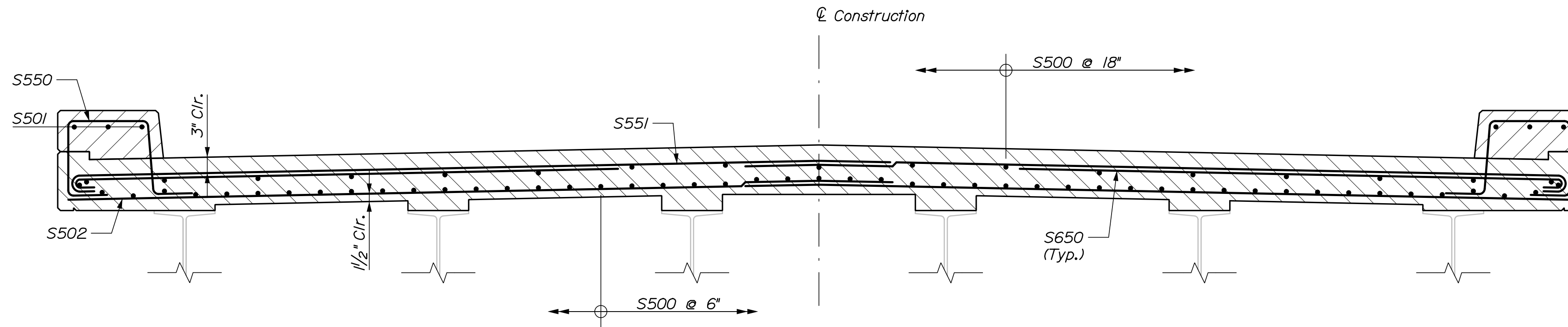
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-2173(200)		BRIDGE NO. 2703 WIN 21732.00		BRIDGE PLANS	
RANDALL BRIDGE WEST BRANCH OF MATTAWAMKEAG RIVER ISLAND FALLS AROOSTOOK COUNTY		SUPERSTRUCTURE PLAN		SHEET NUMBER		14	
OF 17							

PROJ. MANAGER	JASON STETSON	BY	DATE
DESIGN-DETAILED	A. SHKARA	HNTB	10/18
CHECKED-REVIEWED	R. MYERS	R. MYERS	10/18
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

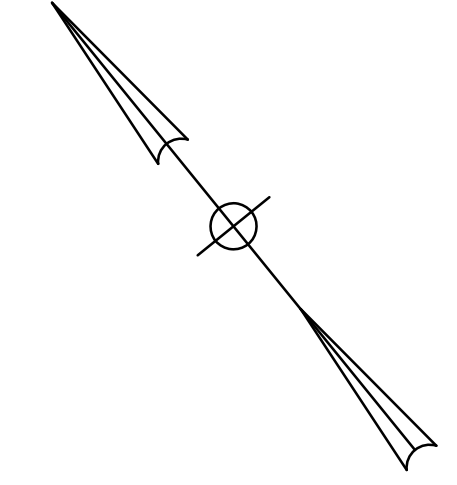
SIGNATURE	DATE
P.E. NUMBER	DATE



PLAN



TRANSVERSE SECTION



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

STP-2173(200)

BRIDGE NO. 2703 WIN 21732.00 BRIDGE PLANS

PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
JASON STETSON	A. SHKARA	R. MYERS	R. MYERS					
BY	DATE							
HNTB	10/18							
R. MYERS	10/18							
								SIGNATURE
								P.E. NUMBER
								DATE

RANDALL BRIDGE  
WEST BRANCH OF MATTAWAMKEAG RIVER  
ISLAND FALLS AROOSTOOK COUNTY  
SUPERSTRUCTURE REINFORCING

SHEET NUMBER

15

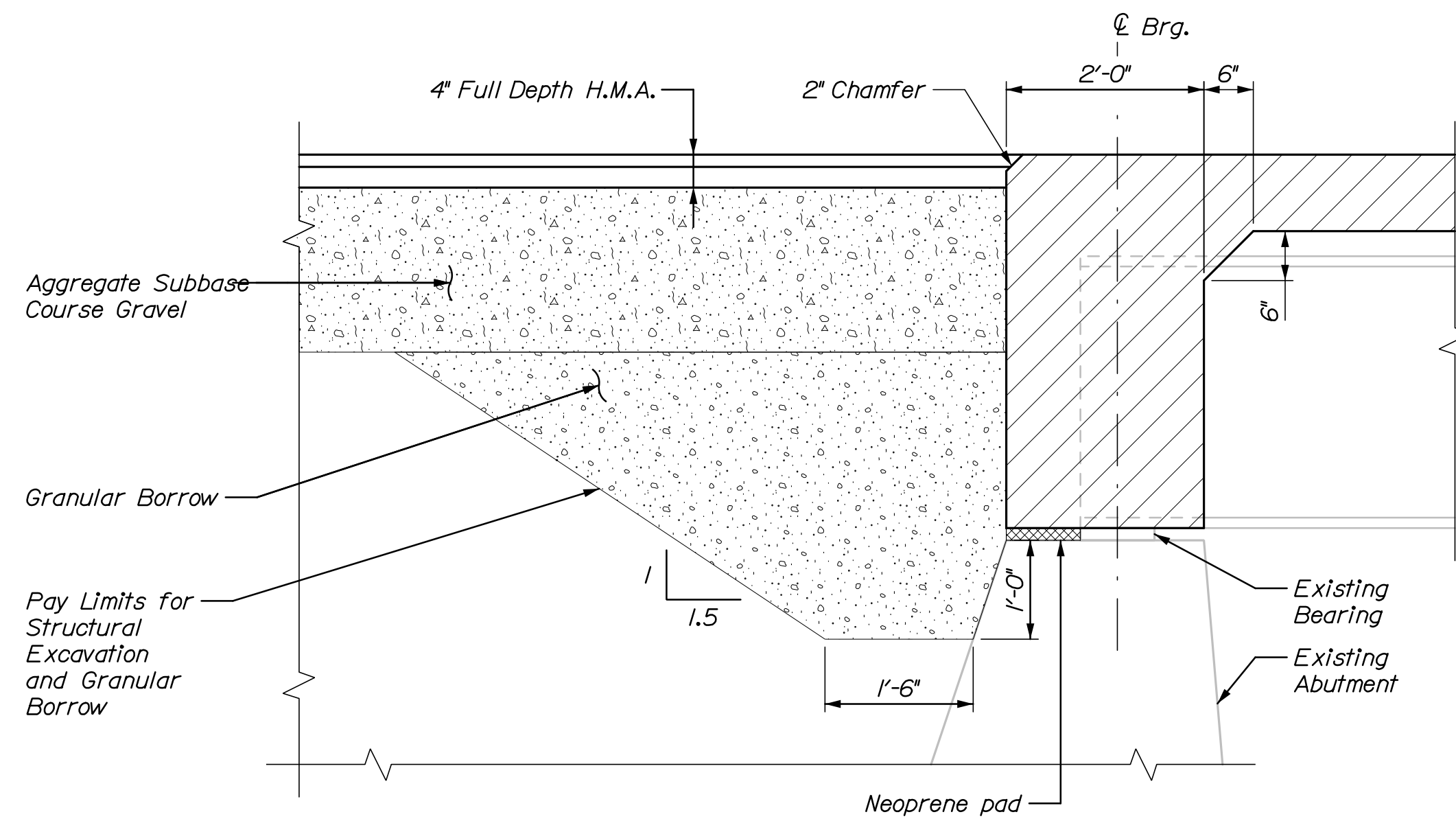
OF 17

Date: 10/30/2018

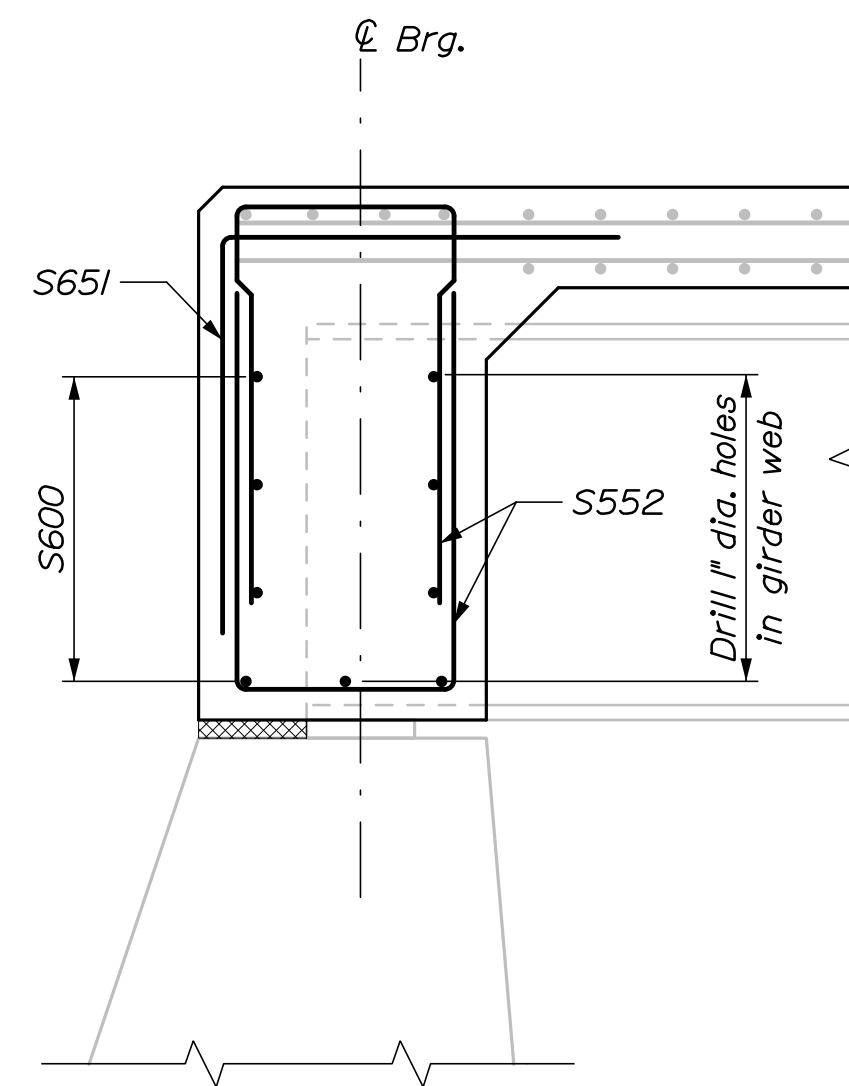
Username:

Division:

Filename: 016\_Reinforcing\_Details.dgn



DECK END & ABUTMENT DETAILS

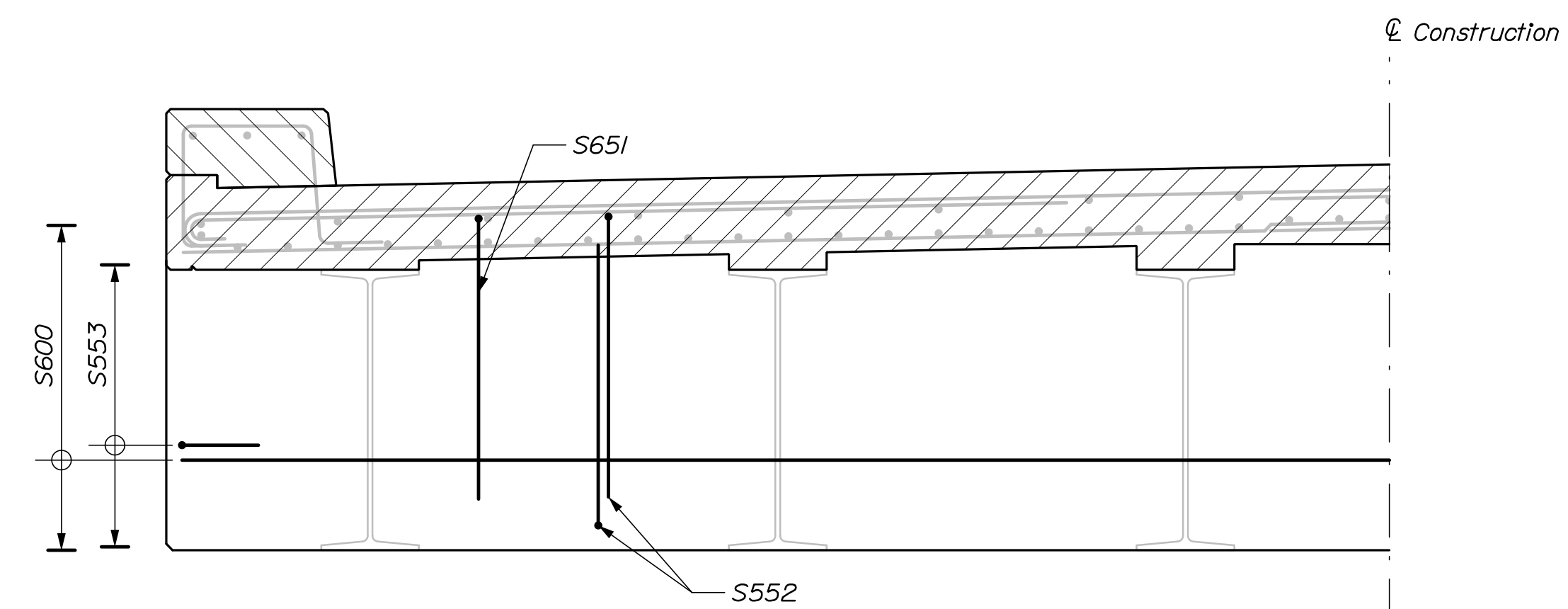


DECK END REINFORCING SECTION  
(Deck Reinforcing Shown Screened for Clarity)

**NOTES:**

1. Neoprene pads shall match the height of the bearing  $\pm 1/8$ " and shall be either polychloroprene or natural polyisoprene of 50 $\pm$ 5 Shore A durometer hardness, and shall conform to the requirements of Section 18.2 of the LRFD Bridge Construction Specifications, Third Edition. Neoprene pads will not be paid for directly but will be considered incidental to related contract items.

2. Neoprene Pad seams perpendicular to the centerline of bearing will be allowed, provided that the seams are located approximately half way between girder webs.



DECK END REINFORCING ELEVATION  
(Deck Reinforcing Shown Screened for Clarity)

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-2173(200)  
WIN  
21732.00  
BRIDGE NO. 2703  
BRIDGE PLANS

PROJ. MANAGER	JASON STETSON	BY	DATE
DESIGN-DETAILED	A. SHKARA	HNTB	10/18
CHECKED-REVIEWED	R. MYERS	R. MYERS	10/18
DESIGN-DETAILED			SIGNATURE
REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

RANDALL BRIDGE  
WEST BRANCH OF MATTAWAMKEAG RIVER  
ISLAND FALLS AROOSTOOK COUNTY  
SUPERSTRUCTURE  
DECK END DETAILS

SHEET NUMBER  
**16**  
OF 17

Date: 10/30/2018

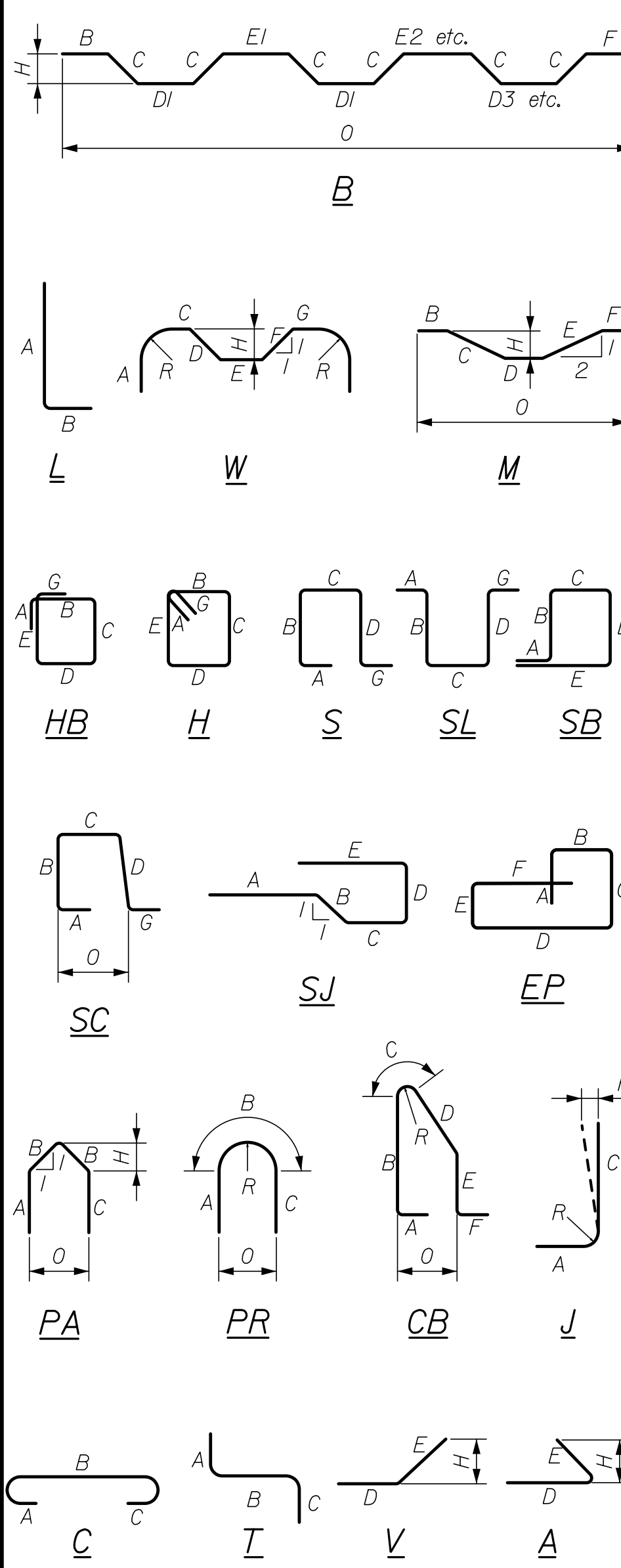
Username:

Division:

Filename: 017\_Reinforcing Schedule.dgn

STRAIGHT BARS				BENT BARS															
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION	
Superstructure (Plain Bars)				Superstructure (Plain Bars)															
S500	66	58'-6"	Primary Longitudinal, Top & Bot.	S550	178	5'-2"	SC	0'-10"	1'-11/2"	1'-3"	1'-11/2"			0'-10"				1'-4"	Curb Stirrup
S501	6	58'-6"	Curb Primary Longitudinal	S551	236	13'-7"	C	0'-7"	13'-0"	0'-0"									Primary Transverse, Top
S502	224	13'-0"	Primary Transverse, Bottom	S552	100	7'-1"	S	0'-0"	2'-9"	1'-7"	2'-9"			0'-0"					Thickened Deck End Vertical Stirrup
S600	18	23'-8"	Deck End Transverse	S553	16	3'-3"	S	0'-0"	0'-10"	1'-7"	0'-10"			0'-0"					Thickened Deck End Horiz. Stirrup
				S650	236	9'-4"	C	0'-8"	8'-8"	0'-0"									Overhang Transverse
				S651	34	5'-6"	L	2'-9"	2'-9"										Thickened Deck End Vertical

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.  
 Reinforcing Bar: ASTM A615/A615M, Grade 60

GENERAL NOTES

- The first two digits 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
- Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case shall be based on crank bars as schedule on the plans.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2173(200)		WIN		BRIDGE PLANS	
BRIDGE NO. 2703		21732.00		SIGNATURE		P.E. NUMBER		DATE	
PROJ. MANAGER JASON STETSON		BY DATE		DESIGN-DETAILED A. SHKARA		CHECKED-REVIEWED R. MYERS		DESIGN-DETAILED	
RANDALL BRIDGE		WEST BRANCH OF MATTAWAMKEAG RIVER		ISLAND FALLS		AROOSTOOK COUNTY		REINFORCING STEEL SCHEDULE	
SHEET NUMBER		17		OF 17					