

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



YARMOUTH CUMBERLAND COUNTY BAYVIEW STREET BRIDGE OVER I-295 BAYVIEW STREET PROJECT NO. 22380.00 PROJECT LENGTH 0.100 mi. BRIDGE NO. 5835

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SPECIFICATIONS

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

DESIGN LOADING

Live Load MaineDOT Legal Loads

TRAFFIC DATA

Current (2019) AADT	1900
Future (2039) AADT	2090
DHV - % of AADT	11
Design Hour Volume	230
Heavy Trucks (% of AADT)	4
Heavy Trucks (% of DHV)	4
Directional Distribution (% of DHV)	70
18 kip Equivalent P 2.0	43
18 kip Equivalent P 2.5	41
Design Speed (mph)	25

MATERIALS

Concrete:	
Curbs & Transition Barriers	Class "LP"
All Other (Unless Noted)	Class "A"
Reinforcing Steel:	
Plain	ASTM A 615/A 615M, Grade 60
Glass Fiber Reinforced Polymer	CSA S807-10, ACI 440.1R-15
Stainless Steel	ASTM A 955, Grade 75
Structural Steel:	
All Material (except as noted)	ASTM A 709, Grade 50
High Strength Bolts	ASTM A 325, Type 1

BASIC DESIGN STRESSES

Concrete	
Class "A"	f 'c = 4,000 psi
Class "LP"	f 'c = 5,000 psi
Plain Reinforcing Steel	f y = 60,000 psi
Stainless Reinforcing Steel	f y = 75,000 psi
Glass Fiber Reinforced Polymer:	
#5 & #6 Bars	F μ = 95,000 psi
	E = 6,150,000 psi
Structural Steel:	
ASTM A 709, Grade 50	F y = 50,000 psi
ASTM A 325	F μ = 120,000 psi

UTILITIES

Central Maine Power Company
Consolidated Communications

Charter Communications
Town of Yarmouth Sewer and Water

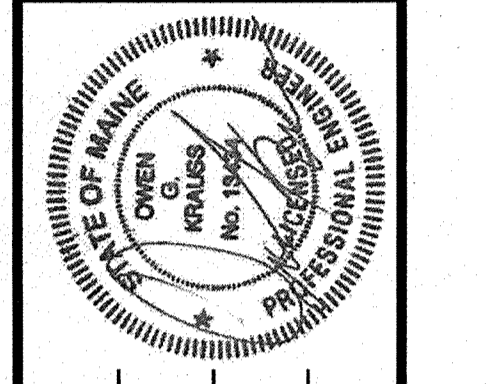
MAINTENANCE OF TRAFFIC

Maintain one lane of alternating one-way traffic using temporary signals and staged construction.

PROJECT LOCATION	Bayview Street/ I-295 Bridge (#5835) over Interstate 295. Located 0.09 of a mile east of Spring Street. Latitude. 43°48'14.55"N Longitude 70°10'13.68"W
PROGRAM AREA	Bridge
OUTLINE OF WORK	Bridge Deck Replacement



STATE OF MAINE	DEPARTMENT OF TRANSPORTATION	DATE
APPROVED		10/6/2020
COMMISSIONER: <i>[Signature]</i>		10-30-2020
CHIEF ENGINEER: <i>[Signature]</i>		



SIGNATURE	13434	P.E. NUMBER	October 13, 2020
DATE			

PROGRAM	Bridge
PROJECT MANAGER	Scott Rollins
DESIGNER	Owen Krauss
CONSULTANT	Hoyle, Tanner & Assoc., Inc.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

YARMOUTH BAYVIEW STREET BRIDGE
TITLE SHEET

SHEET NUMBER
1
OF 30

Filename: \\00\BRIDGE\NMSTA\001_Title.dgn
 Division: BRIDGE
 Username:
 Date: 10/13/2020

22380.00 WIN 22380.00

ESTIMATED QUANTITIES				
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	
202.10	REMOVE EXISTING SUPERSTRUCTURE PROPERTY OF CONTRACTOR (250 CY)	1	LS	
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	25	CY	
202.13	REMOVE EXISTING RAILINGS (RETAINED BY DEPARTMENT)	518	LF	
202.202	REMOVING PAVEMENT SURFACE	1640	SY	
203.20	COMMON EXCAVATION	700	CY	
203.24	COMMON BORROW	10	CY	
203.25	GRANULAR BORROW	10	CY	
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	60	CY	
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	600	CY	
403.208	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE	150	T	
403.209	HOT MIX ASPHALT, 9.5 MM NOMINAL MAXIMUM SIZE (SIDEWALKS, DRIVES, ISLANDS, & INCIDENTALS)	30	T	
403.213	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)	120	T	
409.15	BITUMINOUS TACK COAT, APPLIED	100	G	
502.219	STRUCTURAL CONCRETE, ABUTMENTS & RETAINING WALLS (15 CY)	1	LS	
502.26	STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLABS ON STEEL BRIDGE (230 CY)	1	LS	
502.291	SAW CUT GROOVING (LONGITUDINAL)			
502.31	STRUCTURAL CONCRETE APPROACH SLAB (14 CY)	1	LS	
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (58 CY)	1	LS	
503.12	REINFORCING STEEL, FABRICATED/DELIVERED	5390	LB	
503.13	REINFORCING STEEL, PLACING	5390	LB	
503.17	MECHANICAL/WELDED SPLICE	1846	EA	
503.26	STAINLESS STEEL REINFORCEMENT - FABRICATED & DELIVERED	54660	LB	
503.27	STAINLESS STEEL REINFORCEMENT - PLACING	54660	LB	
504.70	STRUCTURAL STEEL FABRICATED & DELIVERED (2900 LB)	1	LS	
504.71	STRUCTURAL STEEL ERECTION (2900 LB)	1	LS	
505.08	SHEAR CONNECTORS (2970 EA)	1	LS	
507.0821	STEEL BRIDGE RAILING, 3 BAR (250 LF)	1	LS	
507.0831	STEEL BRIDGE RAILING, 4 BAR (250 LF)	1	LS	
508.13	SHEET WATERPROOFING MEMBRANE (20 SY)	1	LS	
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (1010 SY)	1	LS	
518.50	REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL	30	SF	
518.60	REPAIR OF VERTICAL SURFACES < 8 IN.	50	SF	
520.22	EXPANSION DEVICE - COMPRESSION SEAL	2	EA	
524.301	TEMPORARY STRUCTURAL SUPPORT	1	LS	
524.301	TEMPORARY STRUCTURAL SUPPORT - CURB ANCHORAGE	1	LS	
524.40	PROTECTIVE SHIELD	1	LS	
526.301	TEMPORARY CONCRETE BARRIER TYPE 1 (380 LF)	1	LS	
526.304	TEMPORARY CONCRETE BARRIER, ANCHORED (230 LF)	1	LS	
526.305	TEMPORARY CONCRETE BARRIER, BRACED TYPE 1 (230 LF)	1	LS	
526.34	PERMANENT CONCRETE TRANSITION BARRIER	4	EA	
527.34	WORK ZONE CRASH CUSHIONS	2	UN	
530.30	GFRP, REINFORCEMENT BARS, FABRICATED & DELIVERED	60920	LF	
530.31	GFRP, REINFORCEMENT BARS, PLACING	60920	LF	
603.16	15" CULVERT PIPE OPTION 1	88	LF	
604.092	CATCH BASIN TYPE B-C	2	EA	
604.18	ADJUST MANHOLE OR CB TO GRADE	4	EA	
604.247	CATCH BASIN TYPE F5-C	1	EA	
605.11	12" UNDERDRAIN TYPE C	300	LF	
606.1301	3" W-BEAM GUARDRAIL, MIDWAY-SPLICE, SINGLE FACED	50	LF	
606.1306	3" W-BEAM GUARDRAIL, MIDWAY SPLICE TANGENT TERMINAL	1	EA	
606.1307	BRIDGE TRANSITION (ASYMMETRICAL- TYPE 1A)	1	EA	
606.1721	BRIDGE TRANSITION - TYPE 1	1	EA	
606.1722	BRIDGE TRANSITION - TYPE 2	2	EA	
606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	25	LF	
606.232	GUARDRAIL TYPE 3C - OVER 15' RADIUS	25	LF	
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	EA	
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA	
606.78	LOW VOLUME GUARDRAIL END	2	EA	
607.09	WOVEN WIRE FENCE - METAL POSTS	190	LF	
607.184	CHAIN LINK SNOW FENCE 36 INCH	500	LF	
608.07	PLAIN CONCRETE SIDEWALK	20	SY	
608.26	CURB RAMP DETECTABLE WARNING FIELD	20	SF	
609.238	TERMINAL CURB TYPE 1 - 8 FT	2	EA	
609.31	CURB TYPE 3	350	LF	
609.38	RESET CURB TYPE 1	40	LF	
610.08	PLAIN RIPRAP	90	CY	
610.18	STONE DITCH PROTECTION	2	CY	
613.319	EROSION CONTROL BLANKET	60	SY	
615.07	LOAM	40	CY	
618.13	SEEDING METHOD NUMBER 1	2	UN	
618.14	SEEDING METHOD NUMBER 2	3	UN	

ESTIMATED QUANTITIES				
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	
619.12	MULCH	5	UN	
619.14	EROSION CONTROL MIX	60	CY	
620.58	EROSION CONTROL GEOTEXTILE	90	SY	
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	3200	LF	
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING LINE	70	SF	
627.77	REMOVING PAVEMENT MARKINGS	2500	SF	
627.78	TEMPORARY 4" PAINT PAVEMENT MARKING LINE WHITE OR YELLOW	1300	LF	
629.05	HAND LABOR, STRAIGHT TIME	20	HR	
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	20	HR	
631.11	AIR TOOL (INCLUDING OPERATOR)	10	HR	
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR	
631.14	GRADER (INCLUDING OPERATOR)	20	HR	
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR	
639.19	FIELD OFFICE TYPE B	1	EA	
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS	
652.312	TYPE III BARRICADE	2	EA	
652.33	DRUM	30	EA	
652.34	CONE	60	EA	
652.35	CONSTRUCTION SIGNS	500	SF	
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (180 CD)	1	LS	
652.38	FLAGGER	600	HR	
656.75	TEMPORARY SOIL EROSION & WATER POLLUTION CONTROL	1	LS	
659.10	MOBILIZATION	1	LS	
812.162	ADJUSTING SEWER MANHOLE TO GRADE	1	EA	

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 22380.00 WIN 22380.00 BRIDGE NO. 5635 BRIDGE PLANS	BAYVIEW STREET BRIDGE 1-295 YARMOUTH CUMBERLAND COUNTY ESTIMATED QUANTITIES	SHEET NUMBER 2 OF 30
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Date: 10/13/2020

Username:

Division: BRIDGE

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GENERAL CONSTRUCTION NOTES

- 1. For easements, construction limits and right of way lines, refer to Right of Way Map.
- 2. 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.
- 3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- 4. All aluminum bridge rail, rail posts, and associated hardware which are to be removed shall be carefully salvaged by the Contractor and will remain the property of the Department. Payment will be made under Item 202.13, Removing Existing Railings Retained by Department.
- 5. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
- 6. 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.
- 7. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
- 8. 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.
- 9. Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
- 10. Extended-use 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, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.
- 11. Protective Coating for Concrete Surfaces shall be applied to the following areas:
 - All exposed surfaces of concrete curbs and sidewalks, Fascias down to the drip notch,
 - All exposed surfaces of Concrete Transition Barriers,
 - Concrete wearing surfaces,
 - Top of abutment backwalls and to one foot below the top of backwalls on the back side.
- 12. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>.
- 13. 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.
- 14. 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.
- 15. The Contractor shall submit a Bridge Deck Removal Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Demolition Plan will be considered incidental to the bridge removal pay item.

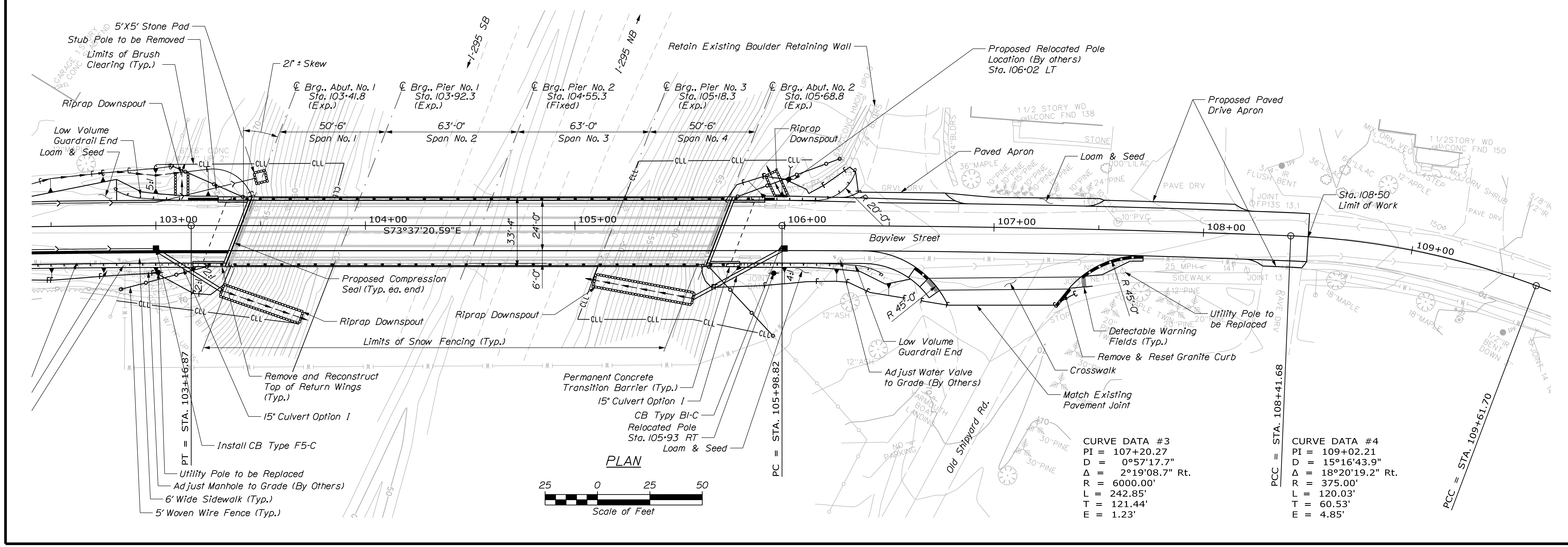
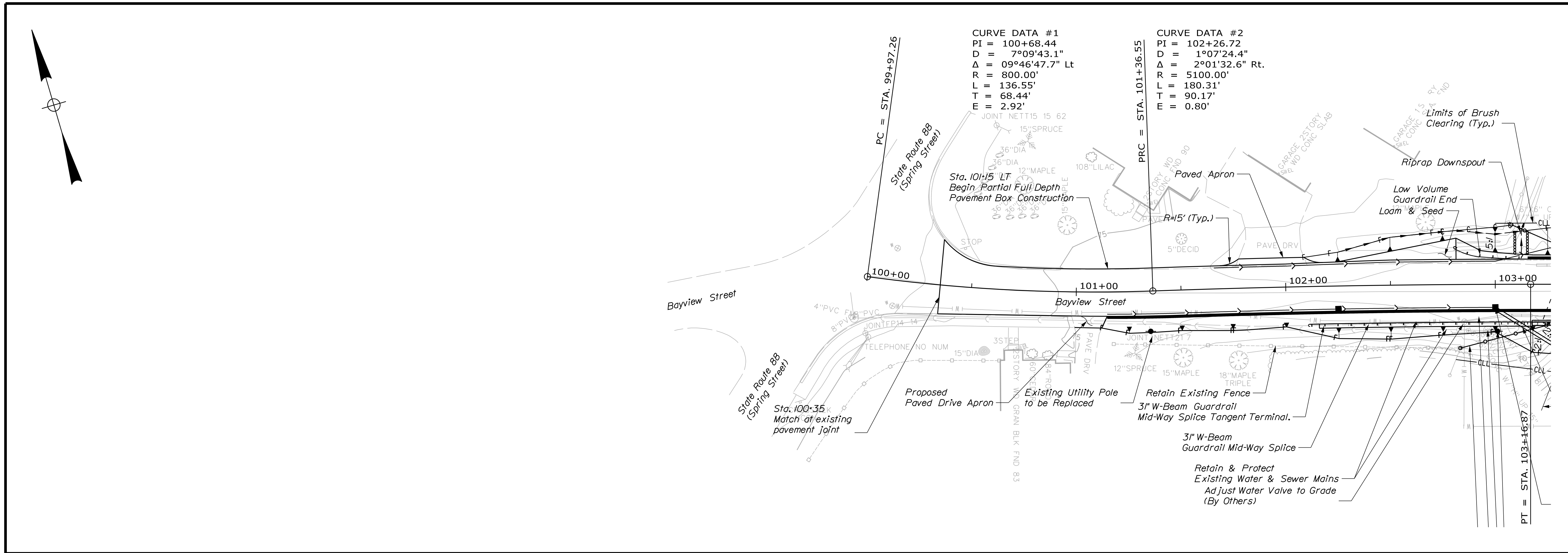
16. The steel portions of the existing bridge may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the existing deck, modification of the structural steel and installation of the shear studs. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing deck is demolished or the structural steel modification begins, 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 for all labor, materials, equipment and other costs required to remove and dispose of the existing bridge will be considered incidental to the concrete removal pay item.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BRIDGE PLANS	
BAYVIEW STREET BRIDGE		CUMBERLAND COUNTY		BRIDGE NO. 6635	
I-295		YARMOUTH		WIN	
GENERAL CONSTRUCTION		GENERAL CONSTRUCTION		22380.00	
NOTES		NOTES		22380.00	
PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
S. Rollins	B. Nichols	Oct. 2020			
CHECKED-REVIEWED		Oct. 2020			
DESIGNS DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					
SHEET NUMBER			3		
OF 30					

Date: 10/13/2020

Username:

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STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 22380.00
 WIN
 22380.00
 BRIDGE NO. 6635
 BRIDGE PLANS

Hoyle, Tanner & Associates, Inc.

PROJ. MANAGER	S. Rollins	BY	DATE
CHECKED/REVIEWED	O. Krauss	B. Nichols	Oct. 2020
DESIGNS DETAILED	K. Brown		Oct. 2020
REVISIONS			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BAYVIEW STREET BRIDGE
 I-295
 CUMBERLAND COUNTY
 YARMOUTH
GENERAL PLAN

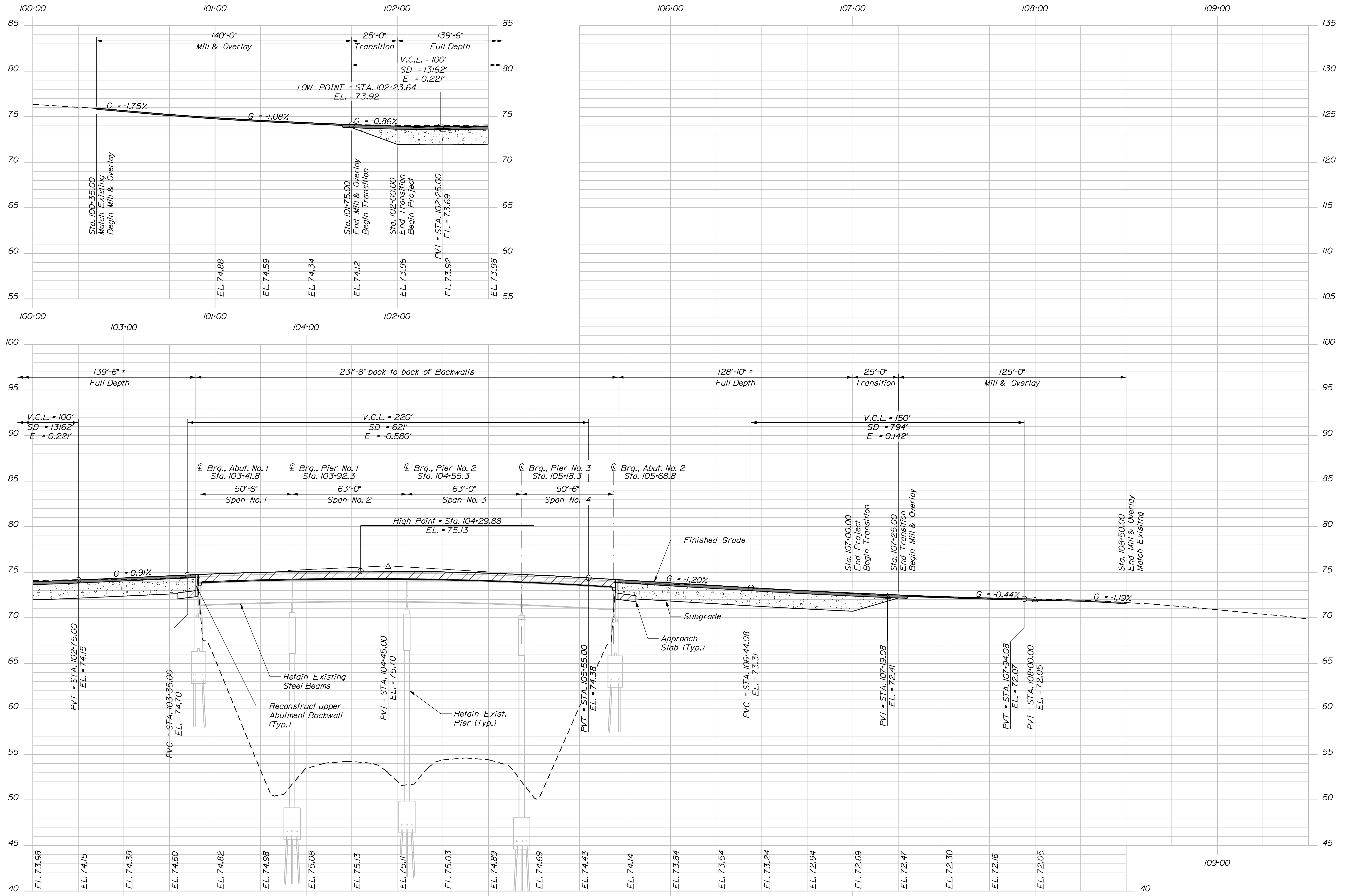
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Date: 10/13/2020

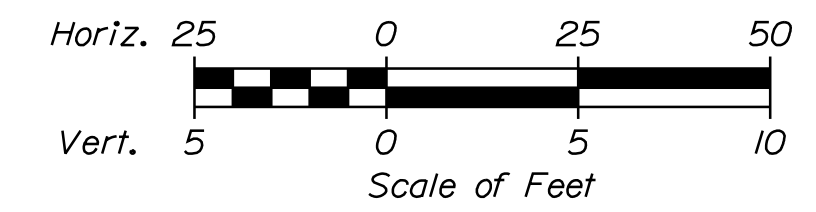
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Division: BRIDGE

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PROFILE



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 22380.00
 WIN
 22380.00
 BRIDGE NO. 6635
 BRIDGE PLANS

Hoyle, Tanner & Associates, Inc.

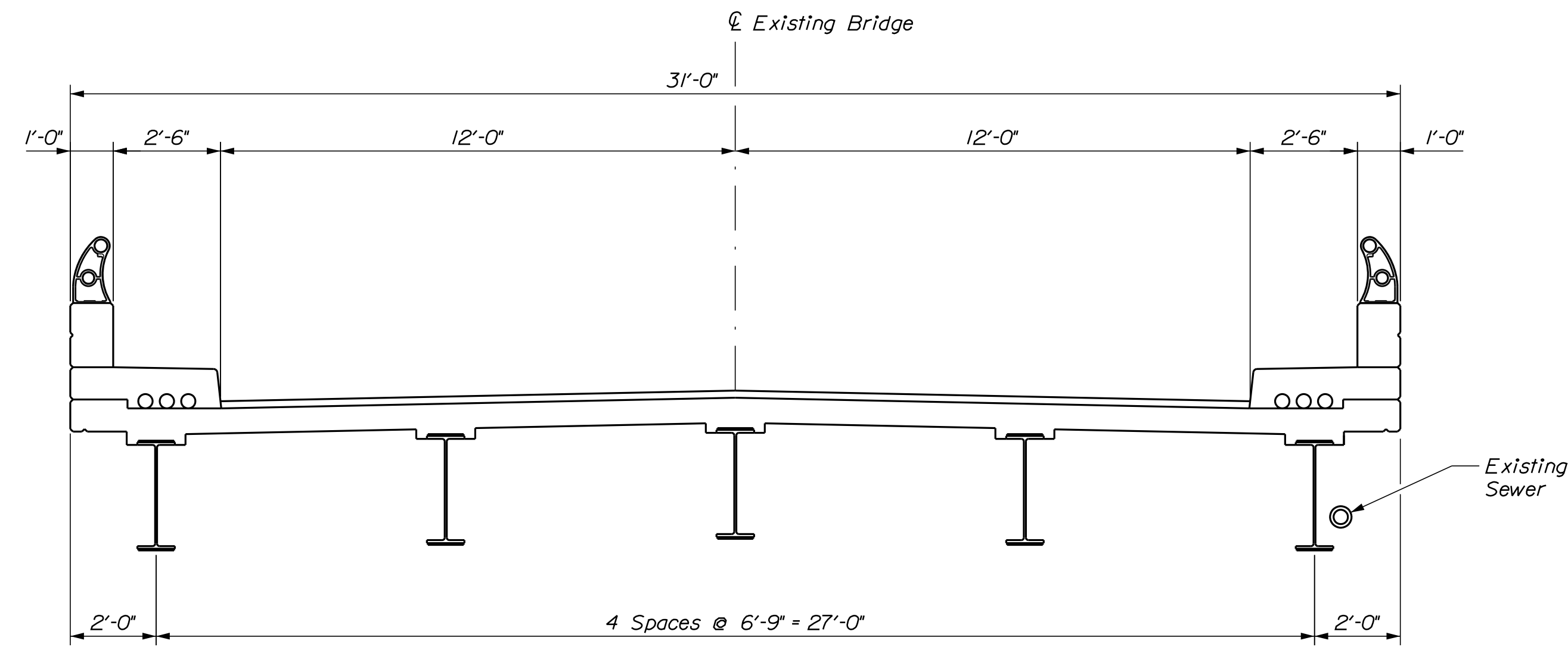
PROJ. MANAGER	S. Rollins	DATE
CHECKED/REVIEWED	O. Krauss	Oct. 2020
DESIGNED/DETAILED	K. Brown	Oct. 2020
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BAYVIEW STREET BRIDGE
 I-295
 YARMOUTH CUMBERLAND COUNTY
 PROFILE

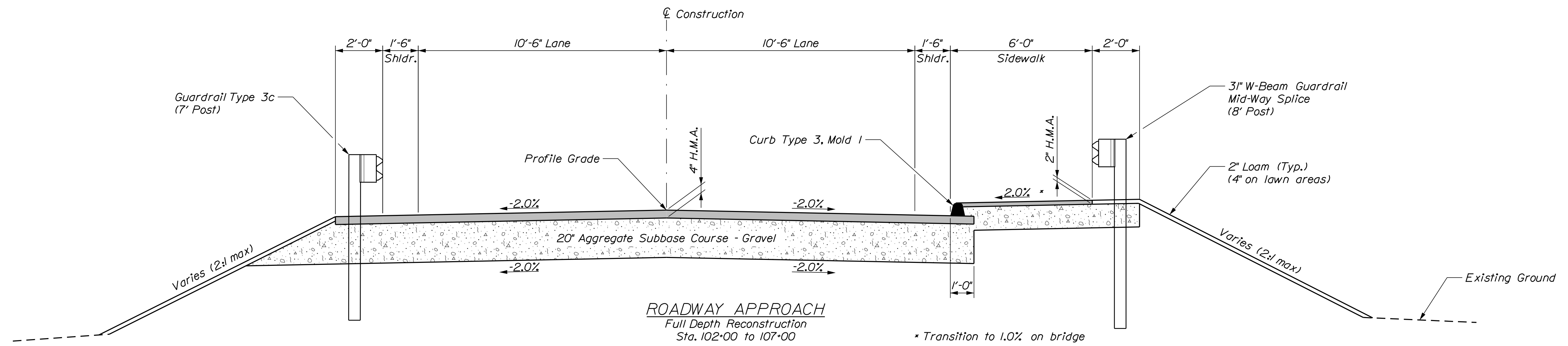
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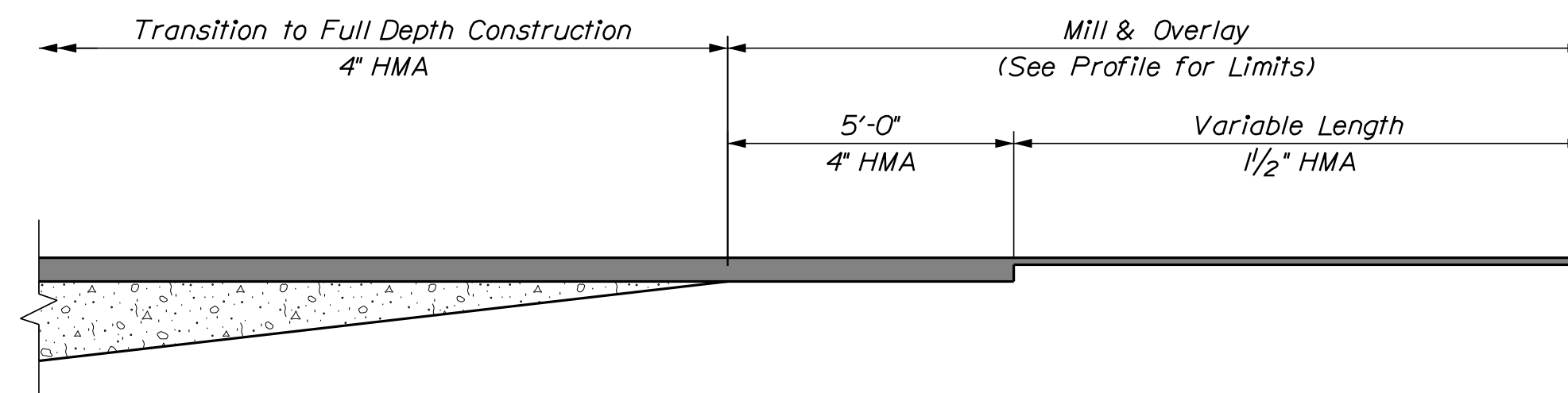
OF 30



EXISTING TRANSVERSE SECTION



ROADWAY APPROACH
Full Depth Reconstruction
Sta. 102+00 to 107+00



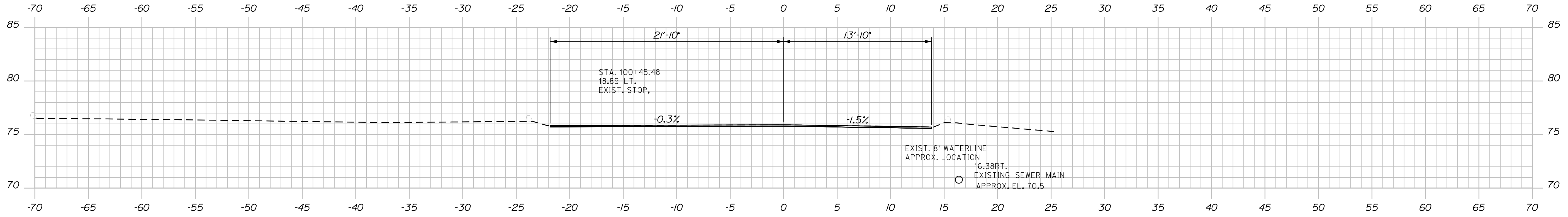
MILL & OVERLAY DETAIL

PROJ. MANAGER	BY	DATE
S. Rollins	B. Nichols	Oct. 2020
CHECKED/REVIEWED	O. Krauss	Oct. 2020
DESIGN/REVIEWED	K. Brown	
DESIGN/REVIEWED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

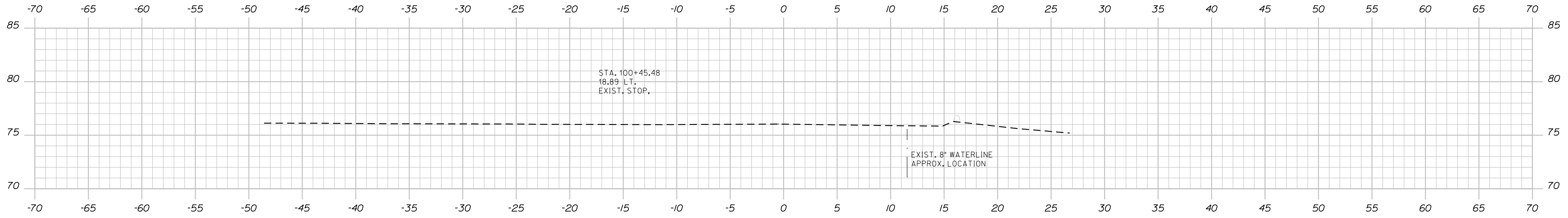
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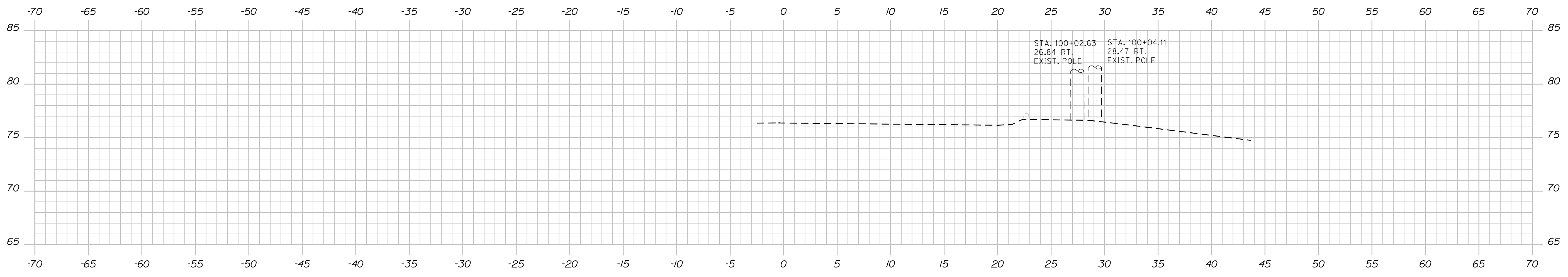
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100+35.00
MATCH EXISTING
BEGIN MILL & OVERLAY



100+25.00



100+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

22380.00

BRIDGE NO. 6635 WIN 22380.00 BRIDGE PLANS

SIGNATURE

P.E. NUMBER

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2

OF 30

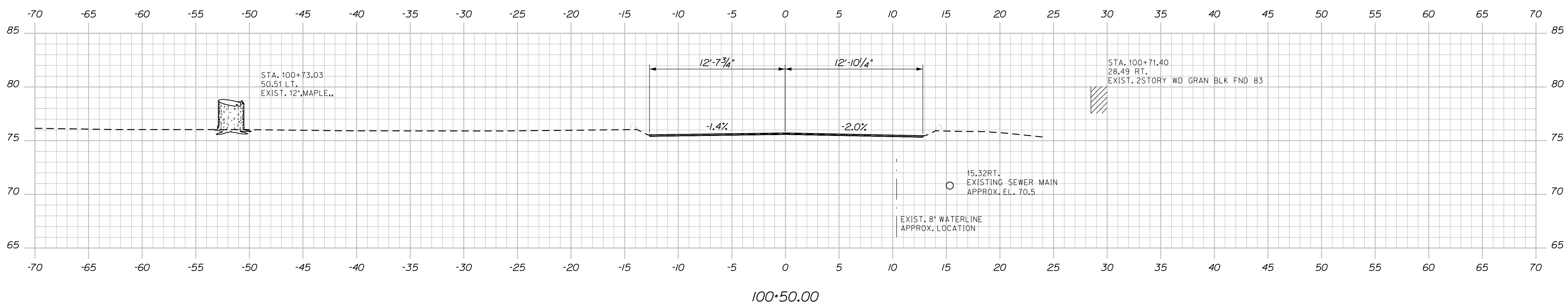
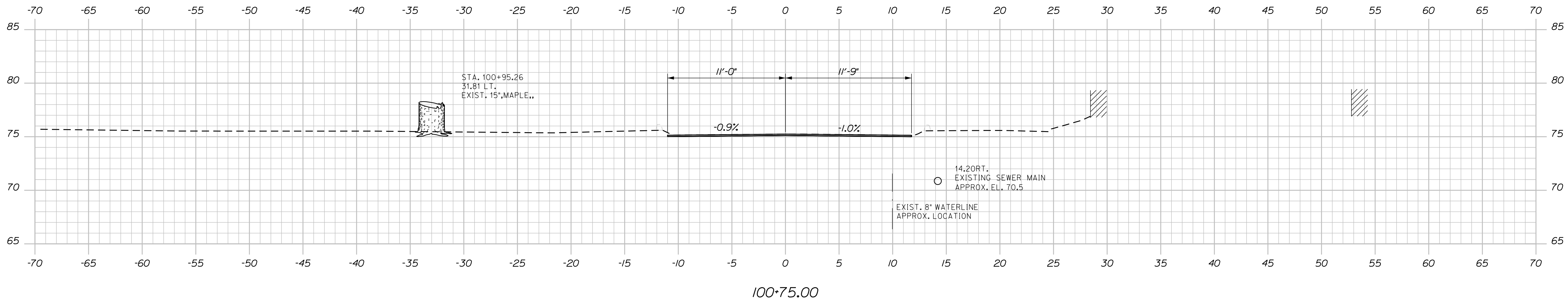
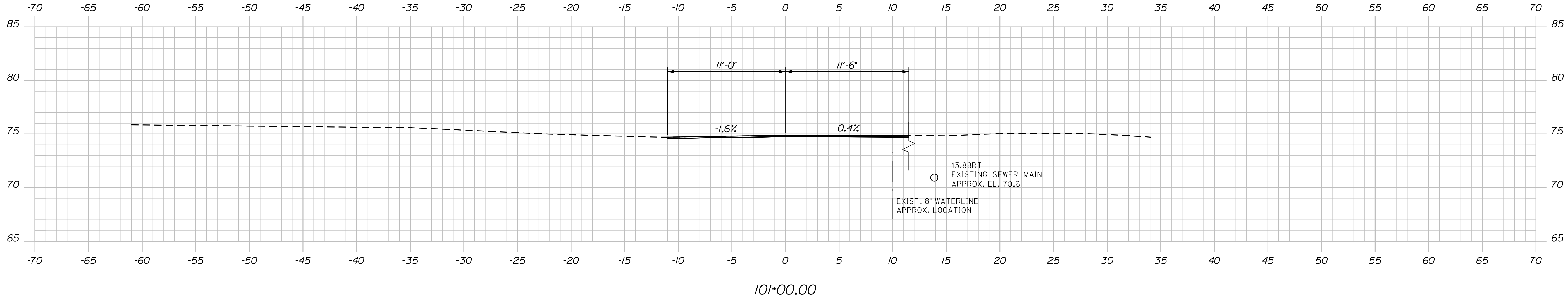
CROSS SECTIONS

BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY

Date: 10/13/2020

Username:

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22380.00
WIN
22380.00
BRIDGE NO. 6635
BRIDGE PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	BY	DATE
S. Rollins	B. Nichols	Oct. 2020
CHECKED/REVIEWED		
DESIGN/REVIEWED		
DESIGN/REVIEWED		
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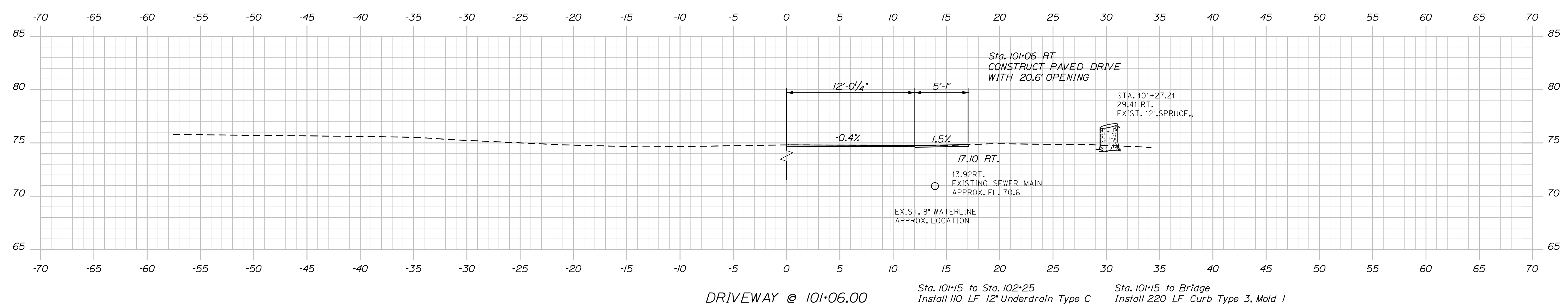
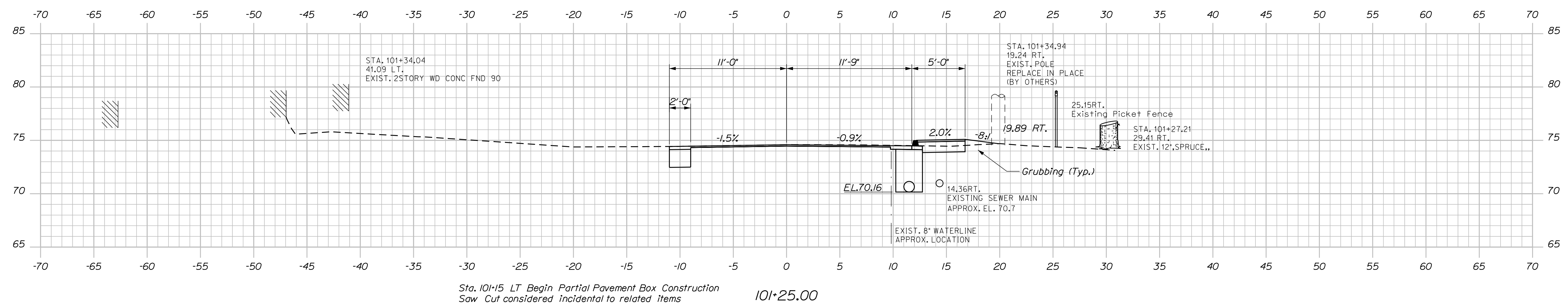
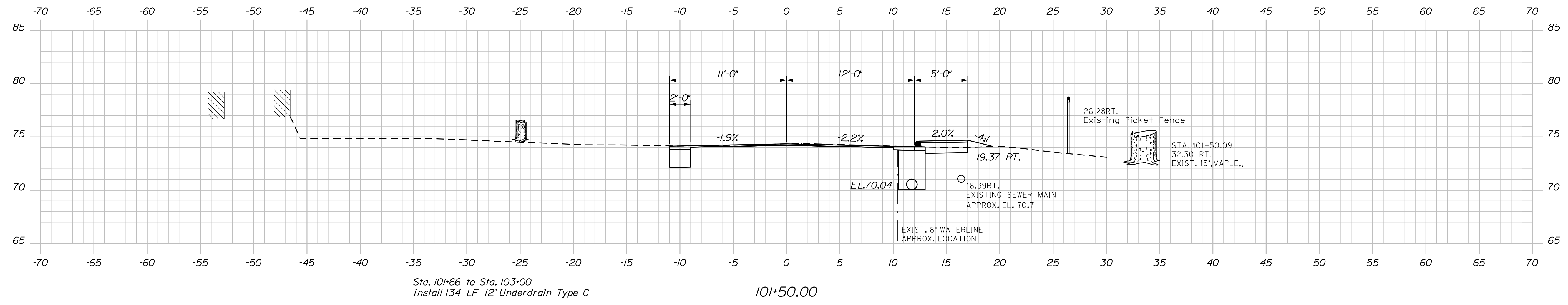
BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY
CROSS SECTIONS

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OF 30

Date: 10/13/2020

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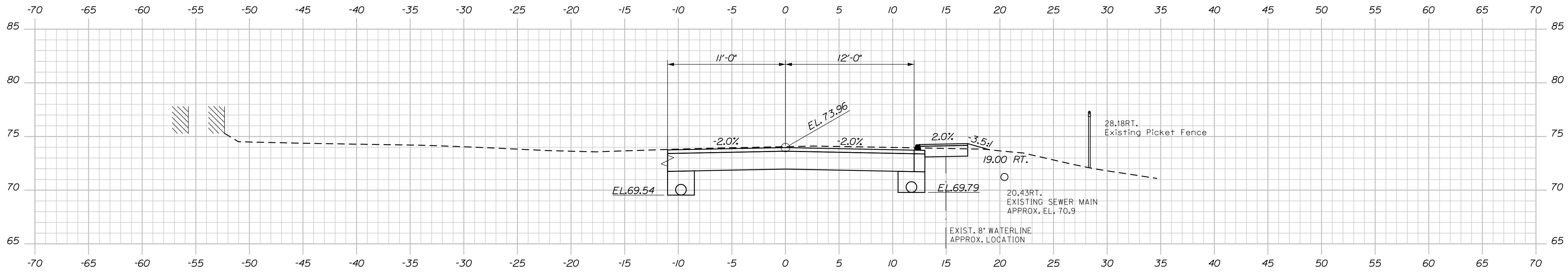
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	BY S. Rollins B. Nichols			
	DATE Oct. 2020 Oct. 2020			
	PROJ. MANAGER S. Rollins			
	CHECKED/REVIEWED O. Krauss			
	DESIGN/DETAILED K. Brown			
	DESIGN/DETAILED K. Brown			
	REVISIONS 1			
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BAYVIEW STREET BRIDGE I-295 YARMOUTH CUMBERLAND COUNTY				
CROSS SECTIONS				
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OF 30				

Date: 10/13/2020

Username:

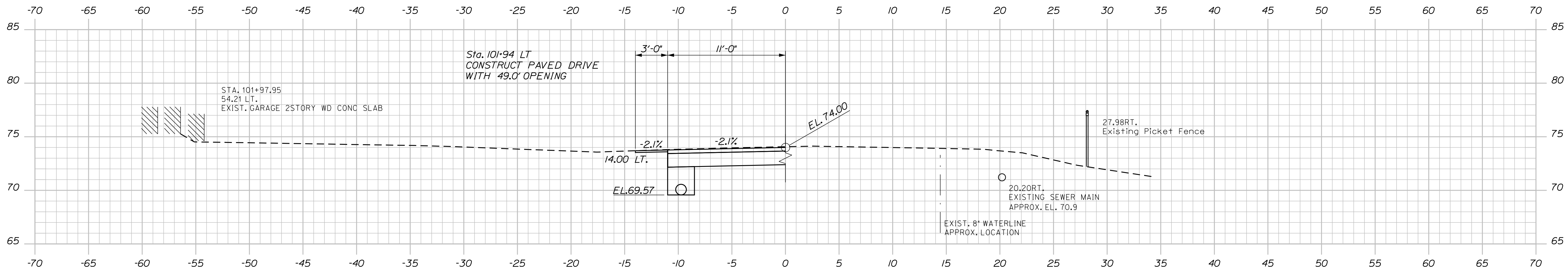
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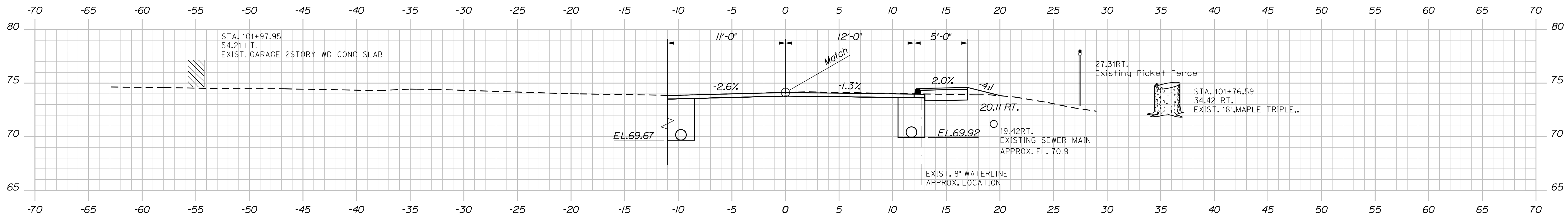


102+00.00
 END TRANSITION
 BEGIN PROJECT

Sta. 102+12 to Sta. 102+49
 Install ReflectORIZED Flexible Guardrail Markers (2)
 Install 3" W-Beam Guardrail
 Midway Splice Tangent Terminal (37.5')



DRIVEWAY @ 101+94.00



101+75.00
 END MILL & OVERLAY
 BEGIN TRANSITION

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 22380.00
 WIN
 22380.00
 BRIDGE NO. 6635
 BRIDGE PLANS

DATE	SIGNATURE	P.E. NUMBER	DATE
Oct. 2020			
Oct. 2020			

DATE	BY	PROJ. MANAGER	CHECKED	DESIGNED	REVISIONS	FIELD CHANGES
Oct. 2020	B. Nichols	S. Reilley	O. Krauss	K. Brown	1	
					2	
					3	
					4	

BAYVIEW STREET BRIDGE
 I-295
 YARMOUTH CUMBERLAND COUNTY
 CROSS SECTIONS

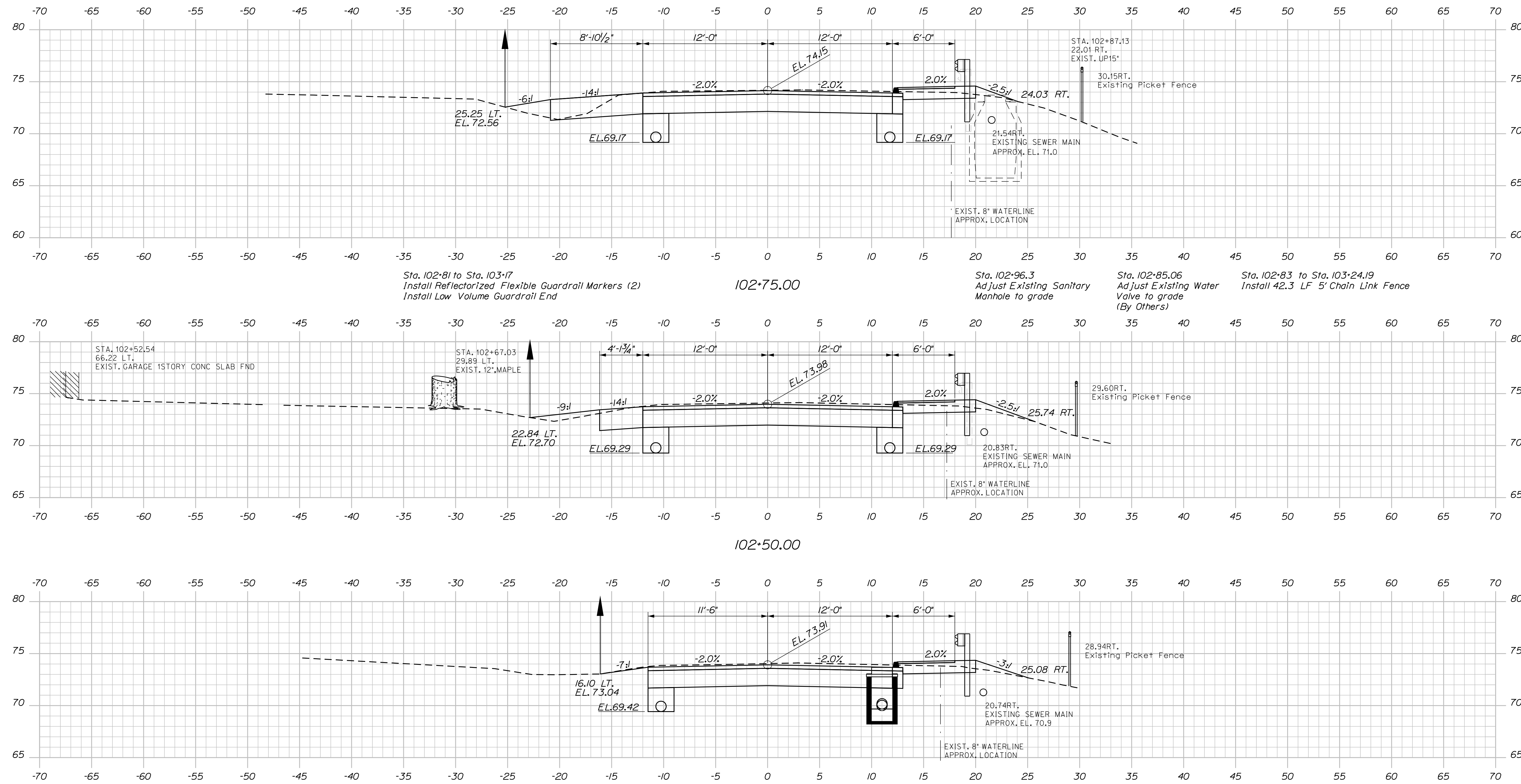
SHEET NUMBER
 10
 OF 30

Date: 10/13/2020

Username:

Division: BRIDGE

Filename: ... \MSTAN01_XSECT_102+25_005.dgn



Sta. 102+81 to Sta. 103+17
 Install Reflectorized Flexible Guardrail Markers (2)
 Install Low Volume Guardrail End

102+75.00

Sta. 102+96.3
 Adjust Existing Sanitary Manhole to grade

Sta. 102+85.06
 Adjust Existing Water Valve to grade
 (By Others)

Sta. 102+83 to Sta. 103+24.19
 Install 42.3 LF 5' Chain Link Fence

STA. 102+52.54
 66.22 LT.
 EXIST. GARAGE 1STORY CONC SLAB FND

STA. 102+67.03
 29.89 LT.
 EXIST. 12" MAPLE

102+50.00

20.83RT.
 EXISTING SEWER MAIN
 APPROX. EL. 71.0

EXIST. 8" WATERLINE
 APPROX. LOCATION

Sta. 102+49 to Sta. 103+00
 Install 50 LF 3" W-Beam Guardrail, Mid-way Splice, SGL Faced

Sta. 102+25
 Install Type F5-C Catch Basin
 Grate EL. 73.68
 Inlet EL. 69.67
 Outlet EL. 69.51

Sta. 102+25 to Sta. 103+00
 Install 75 LF 12" Underdrain Type C

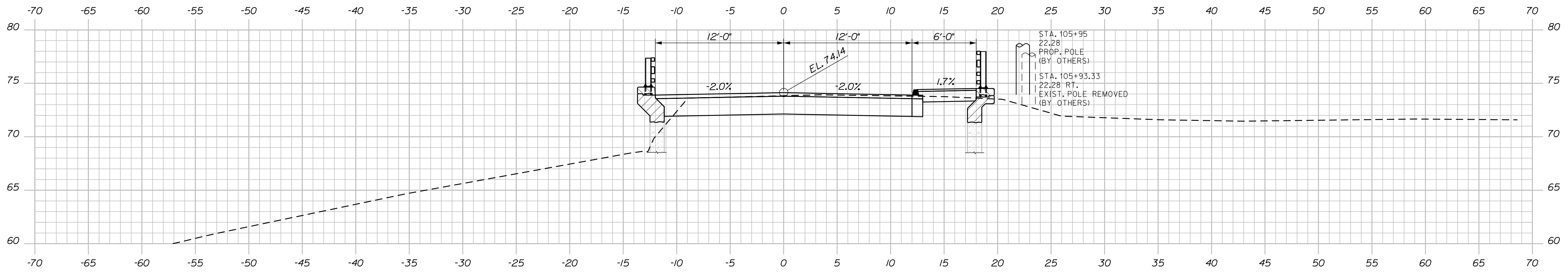
102+25.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		22380.00	WIN	22380.00	BRIDGE NO. 6635	BRIDGE PLANS
PROJ. MANAGER	S. Rollins	BY	B. Nichols	DATE	Oct. 2020	SIGNATURE
DESIGN/DETAILED	O. Krauss	CHECKED/REVIEWED	K. Brown	DATE	Oct. 2020	P.E. NUMBER
DESIGN/DETAILED	K. Brown	DESIGN/DETAILED	K. Brown	DATE		DATE
REVISIONS 1		REVISIONS 1				
REVISIONS 2		REVISIONS 2				
REVISIONS 3		REVISIONS 3				
REVISIONS 4		REVISIONS 4				
FIELD CHANGES		FIELD CHANGES				
BAYVIEW STREET BRIDGE I-295 YARMOUTH CUMBERLAND COUNTY		CROSS SECTIONS				
SHEET NUMBER		11				
		OF 30				

Date: 10/13/2020

Username:

Filename: ... \MSTA\012_XSECT_103+00_006.dgn Division: BRIDGE



Bridge to Sta. 105+95
Install Type 2 Bridge Transition

Bridge to Sta. 106+03
Install 5 LF Curb Type 3, Mold 2

105+75.00

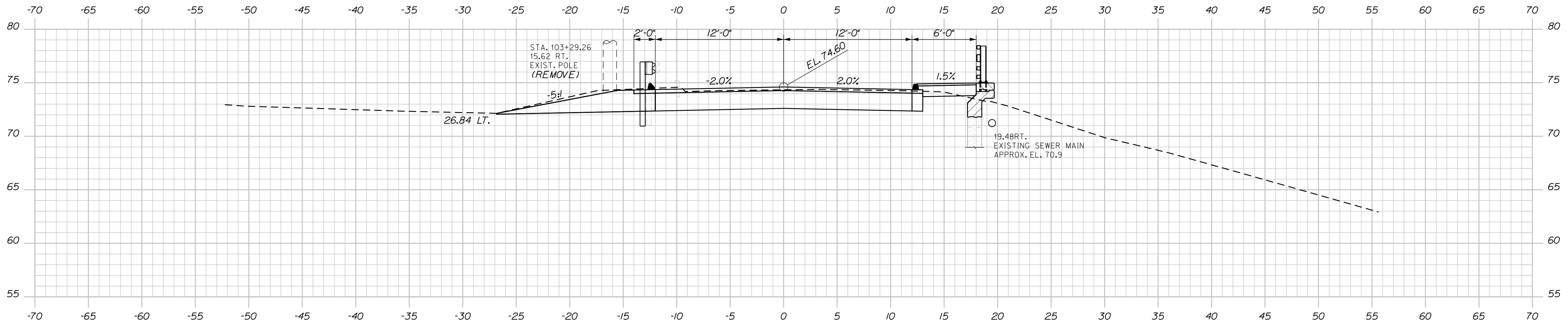
Bridge to Sta. 106+69
Install 105 LF Curb Type 3, Mold 1

Sta. 105+56 to Sta. 106+00
Install 50 LF 15" Culvert Option 1
Outlet EL. 66.46 @ 34.88 Rt.

Sta. 105+63.89 to Sta. 105+94.50
Install 50 LF 5' Chain Link Fence

Bridge to Sta. 105+96
Install Type 1 Bridge Transition
Sta. 105+96 to Sta. 106+09
Install 12.5 LF Guardrail Type 3c

103+38 to 105+72
BRIDGE

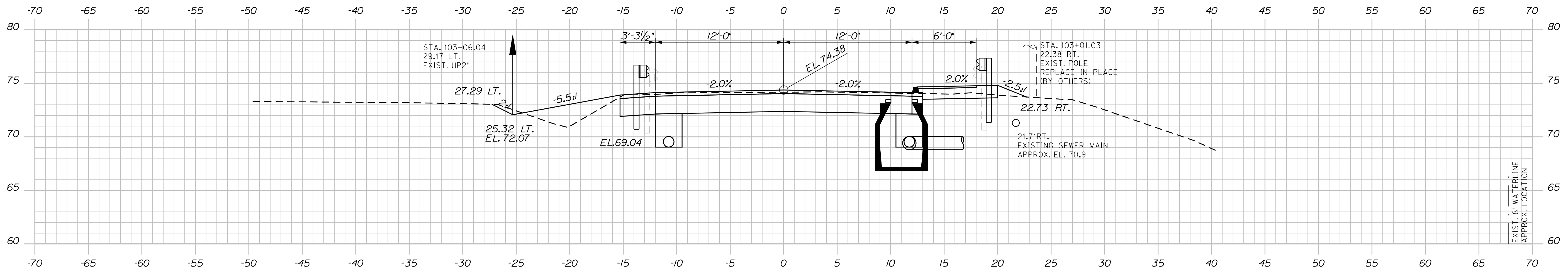


Sta. 103+07.80 to Sta. 103+41.57
Install 51.8 LF 5' Chain Link Fence

Sta. 103+15 to Bridge
Install 15 LF Curb Type 3, Mold 2

103+25.00

Sta. 103+00 to Sta. 103+31
Install 38 LF 15" Culvert Option 1
Outlet EL. 68.00 @ 31.018 Rt.



Sta. 103+17 to Bridge
Install Type 2 Bridge Transition

Sta. 103+12.5
Construct Riprap Downspout

103+00.00

Sta. 103+00
Install Type BIC Catch Basin
Grate EL. 74.14
Inlet EL. 69.04
Outlet EL. 68.79

Sta. 103+00 to Bridge
Install Type 1 Bridge Transition (Asymmetrical)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

22380.00

WIN

22380.00

BRIDGE NO. 6635

BRIDGE PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
S. Rollins	B. Nichols	Oct. 2020			
DESIGN-DETAILED	O. Krauss	Oct. 2020			
CHECKED-REVIEWED					
DESIGN-DETAILED	K. Brown				
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY

CROSS SECTIONS

SHEET NUMBER

12

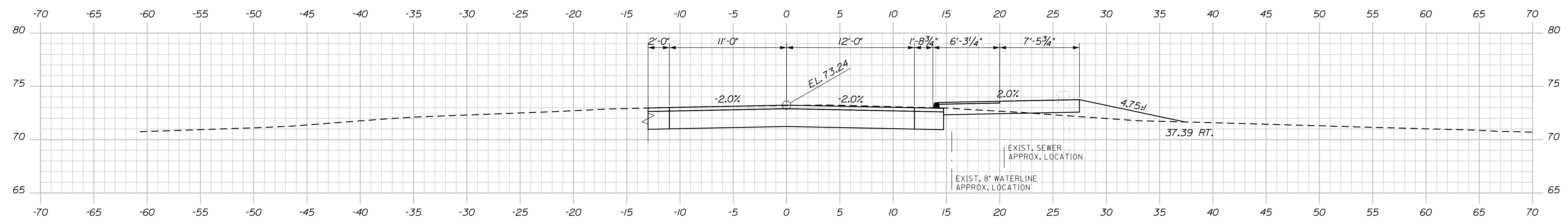
OF 30

Date: 10/13/2020

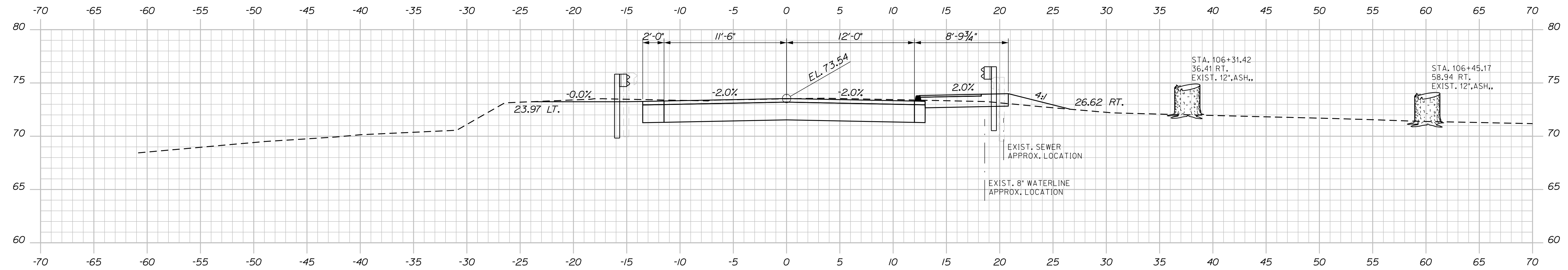
Username:

Division: BRIDGE

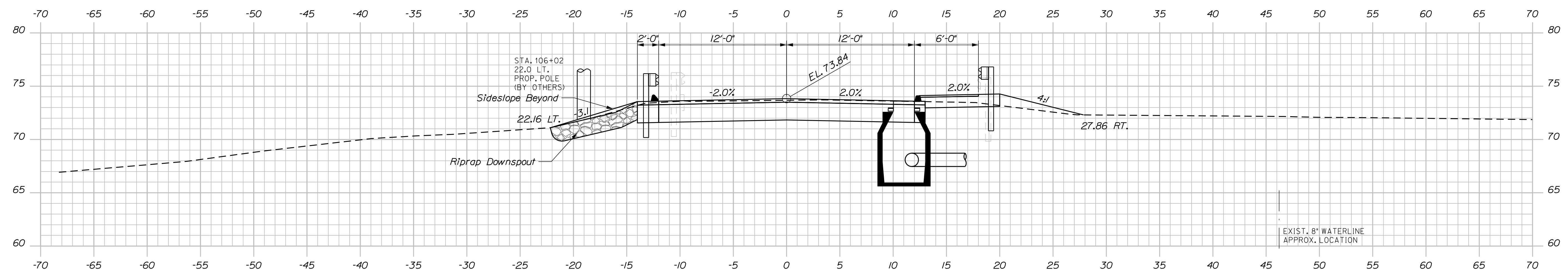
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106+50.00
 Sta. 106+63 to Sta. 106+69
 Install Terminal Curb Type 1 - 8 LF
 Sta. 106+63 to Sta. 106+75
 Construct Concrete Sidewalk



106+25.00



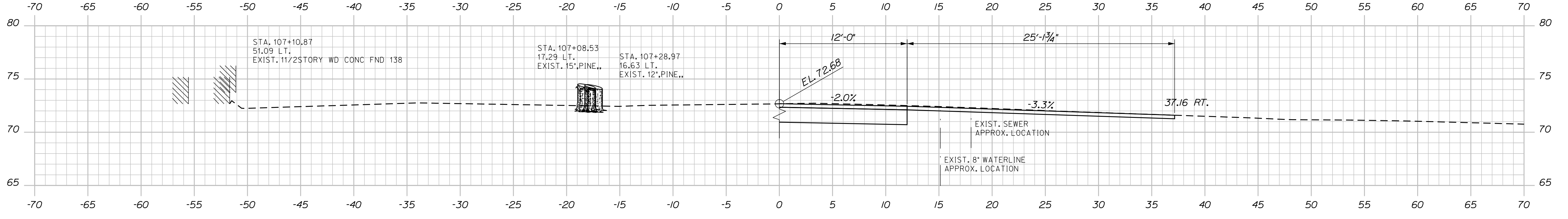
106+00.00
 Sta. 105+91 to Sta. 106+15
 Install 25 LF Guardrail Type 3c
 Sta. 106+15 to Sta. 106+34
 Install 25 LF Guardrail Type 3c (20' radius)
 Install Terminal End
 Install ReflectORIZED Flexible Guardrail Markers (2)
 Sta. 105+77.71 to Sta. 106+26.29
 Install 51.8 LF 5' Chain Link Fence
 Sta. 106+00
 Install Type BIC Catch Basin
 Grate EL. 73.60
 Outlet EL. 67.46
 Sta. 106+09 to Sta. 106+46
 Install Low Volume Guardrail End
 Install ReflectORIZED Flexible Guardrail Markers (2)

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		22380.00	
BAYVIEW STREET BRIDGE		CUMBERLAND COUNTY		YARMOUTH	
I-295		CROSS SECTIONS		BRIDGE NO. 6635	
SHEET NUMBER		13		OF 30	
PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
S. Rollins	B. Nichols	Oct. 2020			
CHECKED/REVIEWED	DESIGNED/REVIEWED	DESIGNED/REVIEWED	REVISIONS 1	REVISIONS 2	REVISIONS 3
O. Krauss	K. Brown				
			REVISIONS 4	FIELD CHANGES	

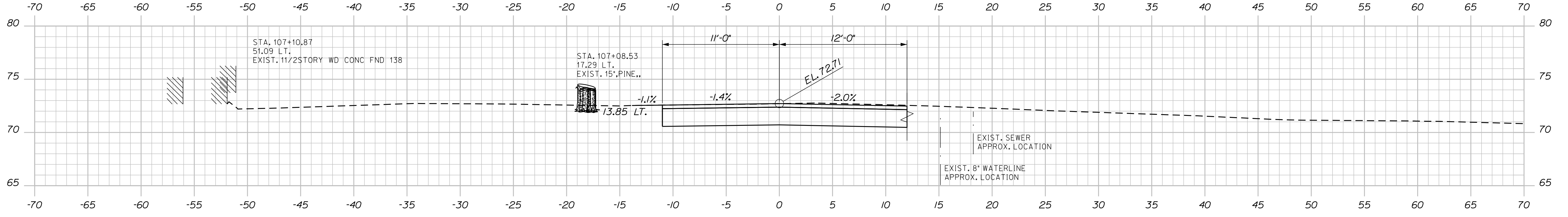
Date: 10/13/2020

Username:

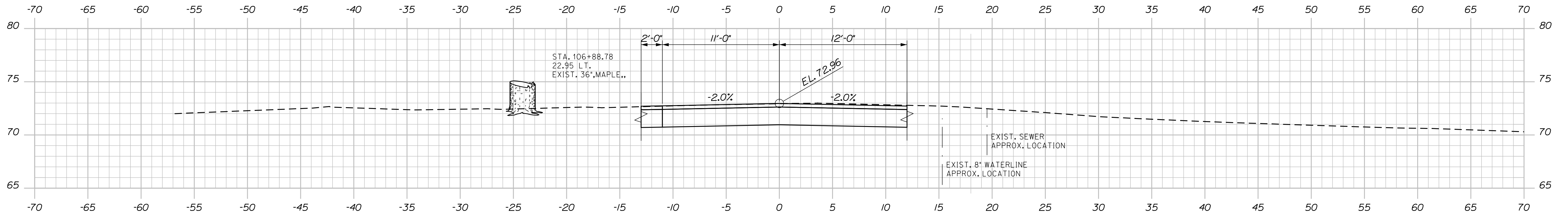
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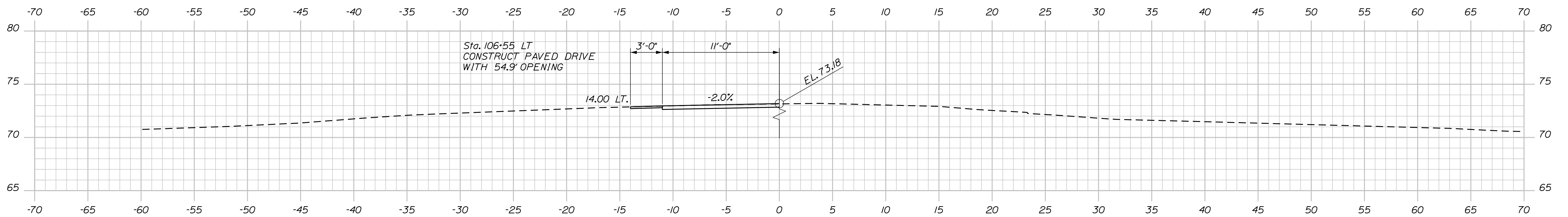
OLD SHIPYARD RD 107+04.00



107+00.00
END PROJECT
BEGIN TRANSITION



106+75.00



DRIVEWAY @ 106+55.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22380.00
WIN
22380.00
BRIDGE NO. 6635
BRIDGE PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
S. Rollins	B. Nichols	Oct. 2020			
O. Krauss		Oct. 2020			
K. Brown					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

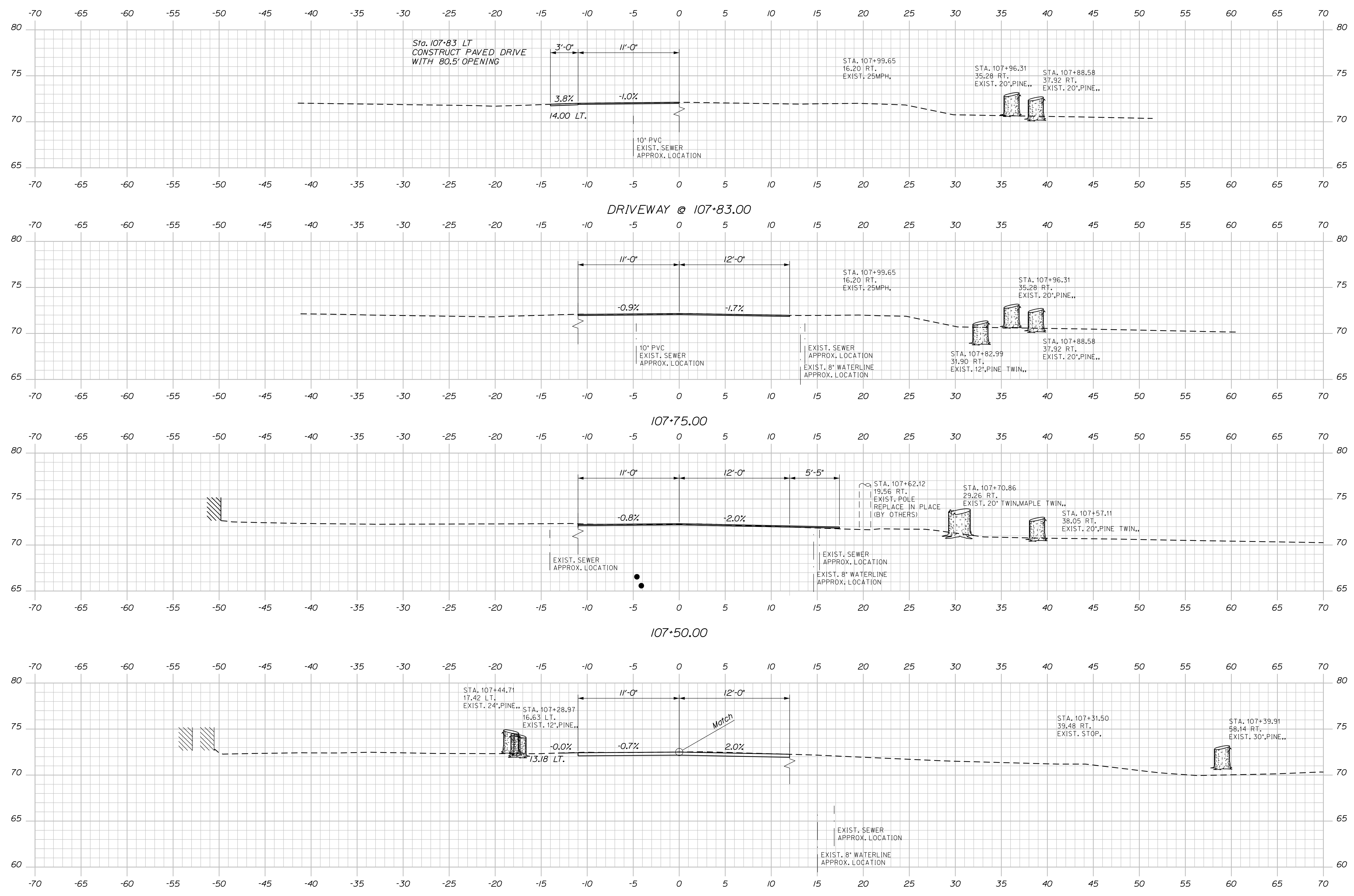
BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
14
OF 30

Date: 10/13/2020

Username:

Filename: ... \MSTAO15_XSECT_107+25_009.dgn Division: BRIDGE



107+25.00
 END TRANSITION
 BEGIN MILL & OVERLAY

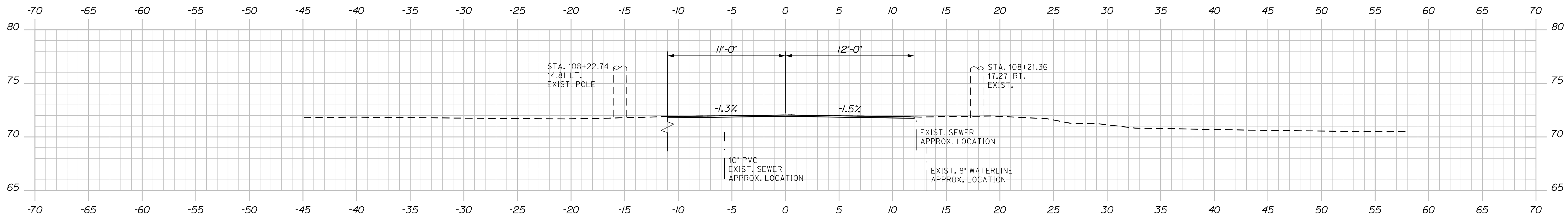
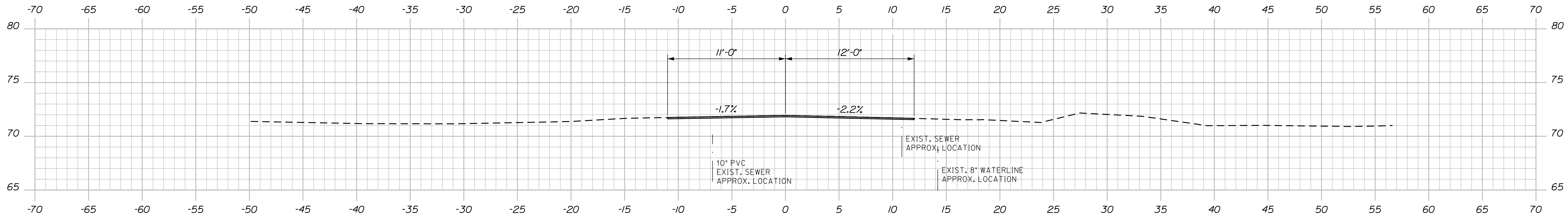
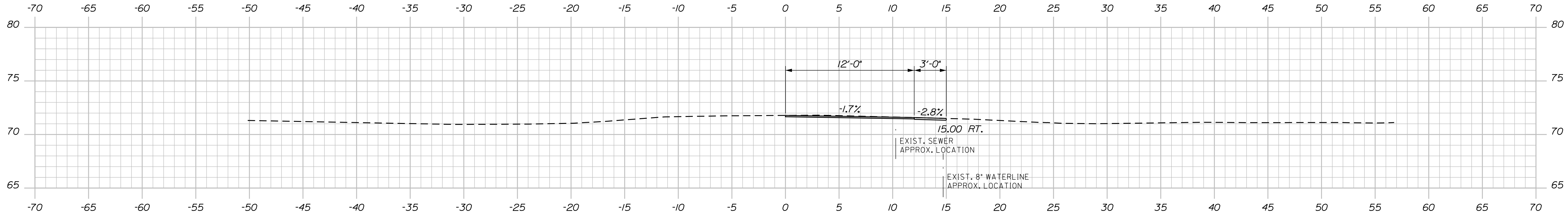
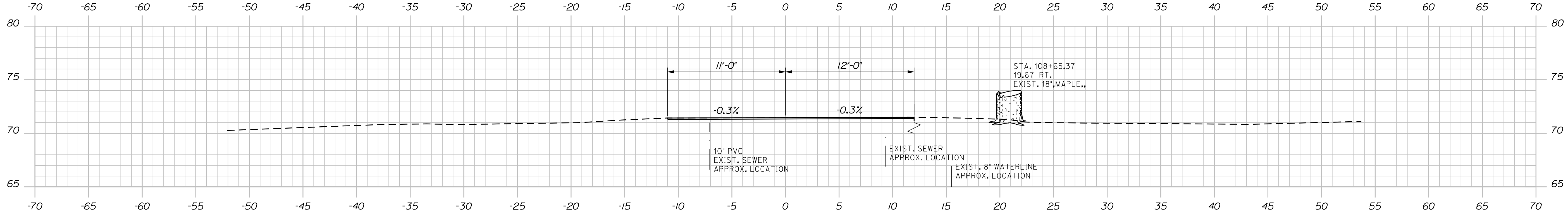
Sta. 107+30 to Sta. 107+72
 Remove & Reset 40 LF Granite Curb
 Sta. 107+36 to Sta. 107+53
 Construct Concrete Sidewalk

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		22380.00	
BAYVIEW STREET BRIDGE I-295 YARMOUTH CUMBERLAND COUNTY		BRIDGE NO. 6635 WIN 22380.00	
CROSS SECTIONS		BRIDGE PLANS	
PROJ. MANAGER	BY	DATE	SIGNATURE
S. Rollins	B. Nichols	Oct. 2020	
CHECKED/REVIEWED	DESIGNED/DETAILED	DESIGNED/DETAILED	P.E. NUMBER
O. Krauss	K. Brown		
DESIGNED/DETAILED	REVISIONS 1		DATE
	REVISIONS 2		
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	FIELD CHANGES		
SHEET NUMBER		15	
		OF 30	

Date: 10/13/2020

Username:

Filename: ... \MSTA016_XSECT_108+00_010.dgn Division: BRIDGE



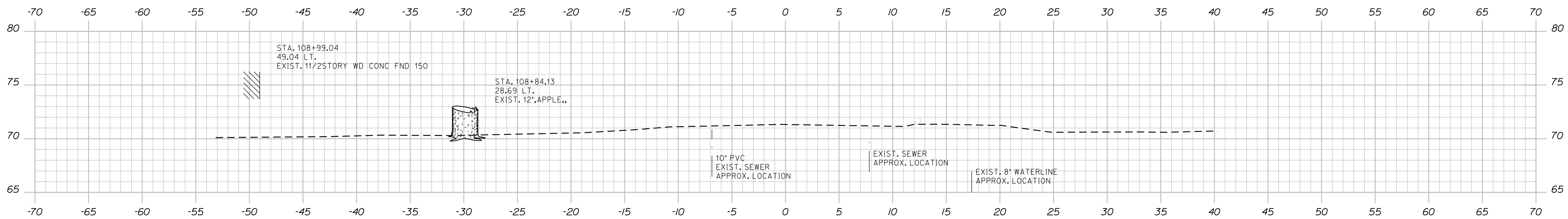
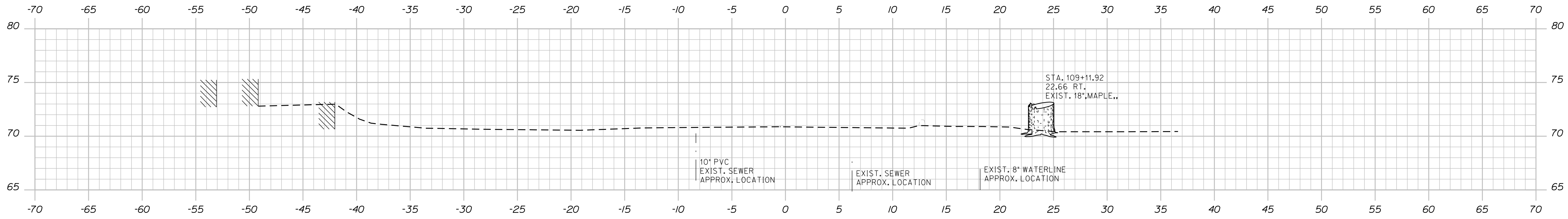
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22380.00
WIN
22380.00
BRIDGE NO. 6635
BRIDGE PLANS

DESIGNER: S. Rolfe
CHECKED: O. Krauss
DESIGN DETAILED: K. Brown
REVISIONS: 1, 2, 3, 4
FIELD CHANGES

DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
Oct. 2020	B. Nichols	Oct. 2020			

BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
16
OF 30



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22380.00
WIN
22380.00
BRIDGE NO. 6635
BRIDGE PLANS

PROJ. MANAGER	S. Rollins	BY	B. Nichols	DATE	Oct. 2020
DESIGN/DETAILED	O. Krauss	CHECKED/REVIEWED		SIGNATURE	
DESIGNS/DETAILED	K. Brown	DESIGNS/DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 1		DATE	
REVISIONS 2		REVISIONS 2			
REVISIONS 3		REVISIONS 3			
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FIELD CHANGES					

BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY
CROSS SECTIONS

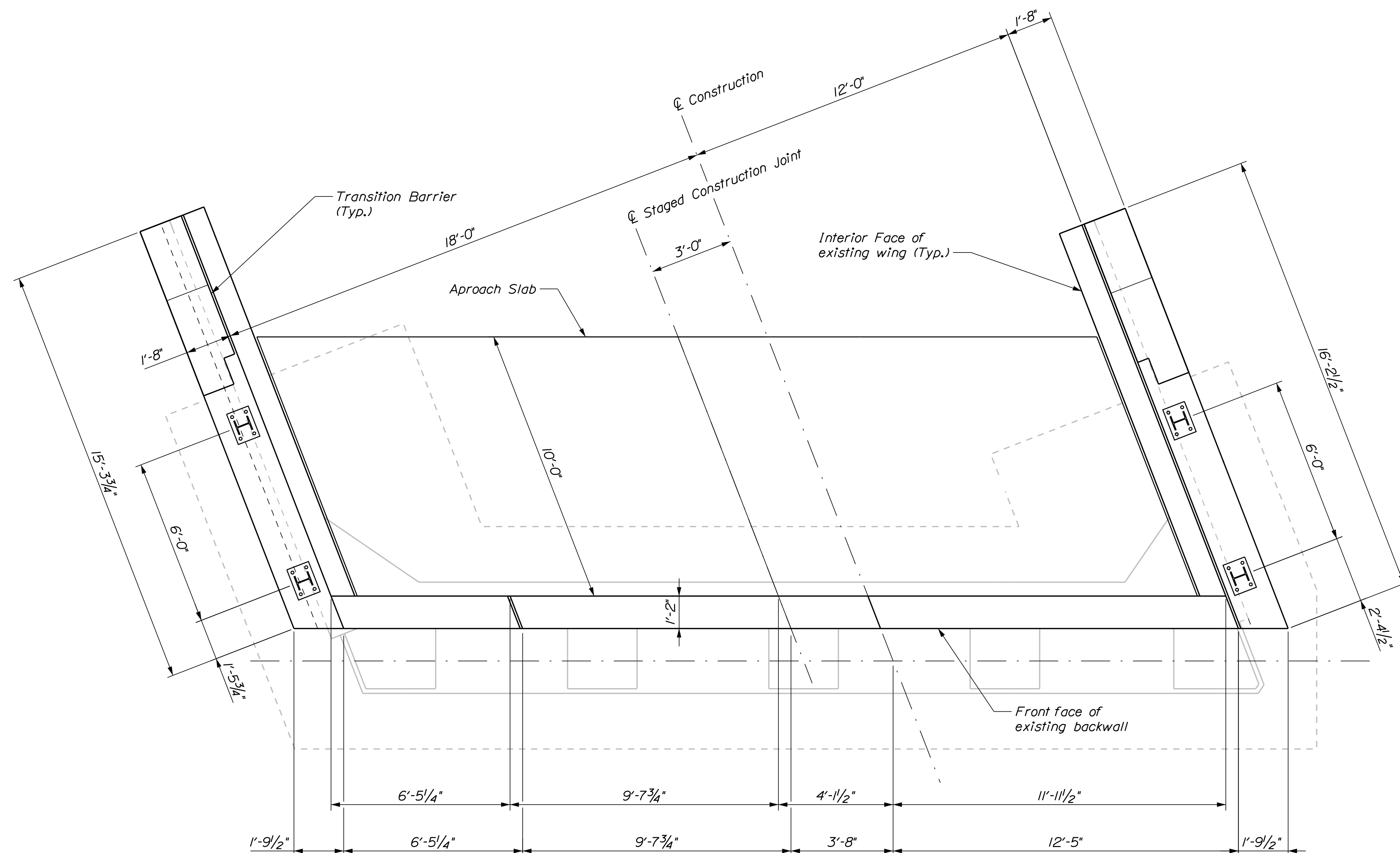
SHEET NUMBER
17
OF 30

Date: 10/13/2020

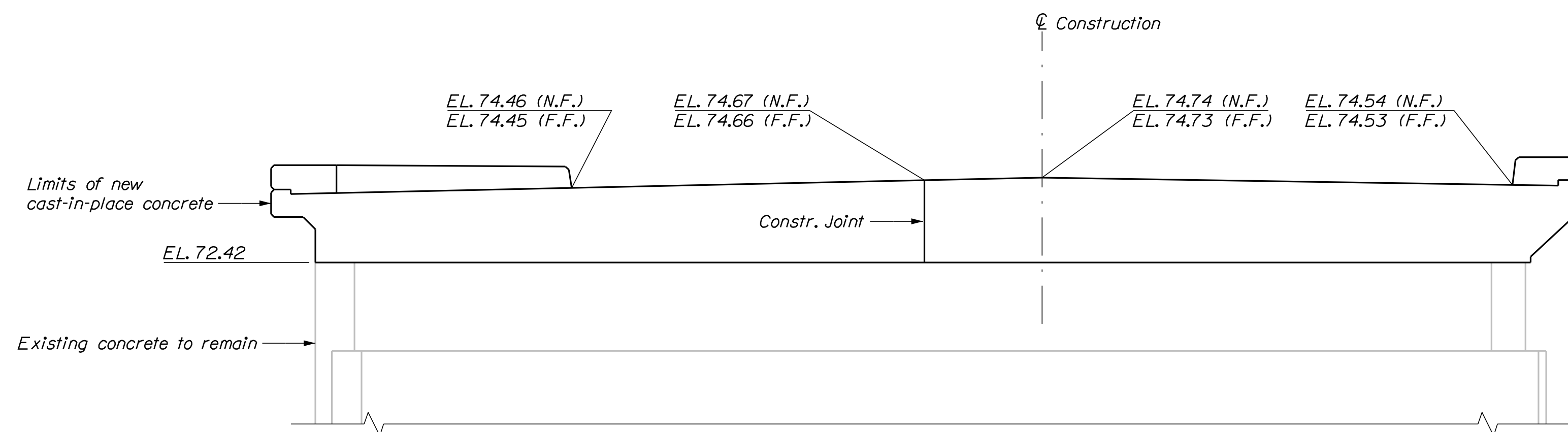
Username:

Division: BRIDGE

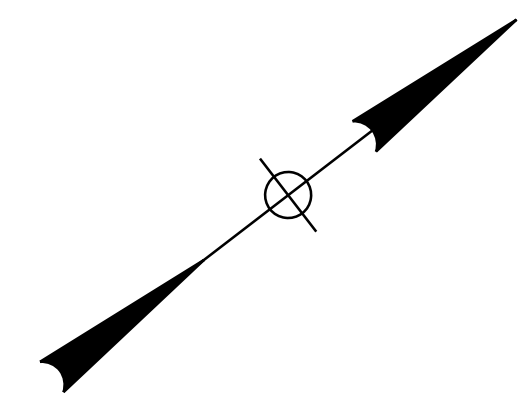
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ABUTMENT NO. 1 PLAN



ABUTMENT NO. 1 ELEVATION



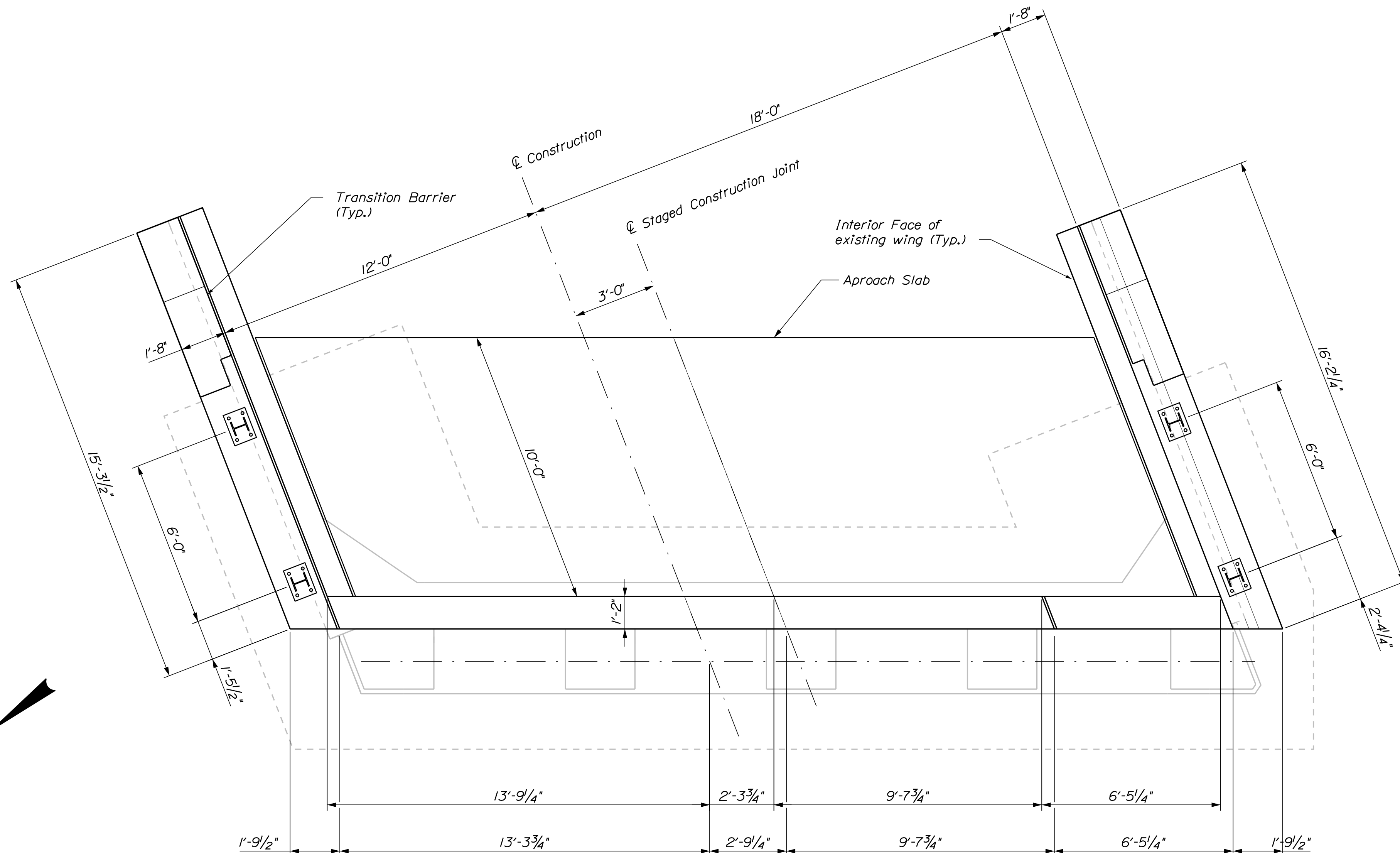
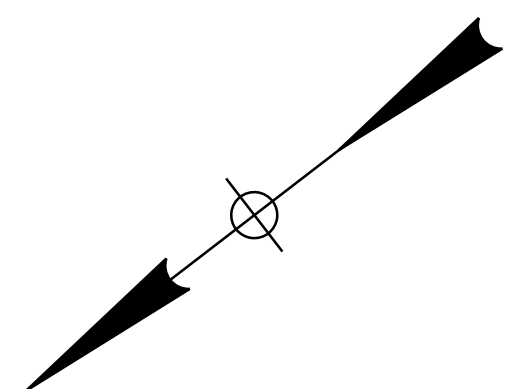
ABUTMENT NOTES

1. Reinforcing steel shall have a minimum concrete cover of 2 inches or match existing.
2. The Contractor shall install Transition Barrier vertical closed stirrups, as shown in Standard Details Section 526, prior to the placement of the curb concrete.
3. Cover joints where waterstops are not required in accordance with Standard Details Section 502.
4. Abutments and wingwalls shall be backfilled with Granular Borrow. Pay limits will be the structural excavation limits.

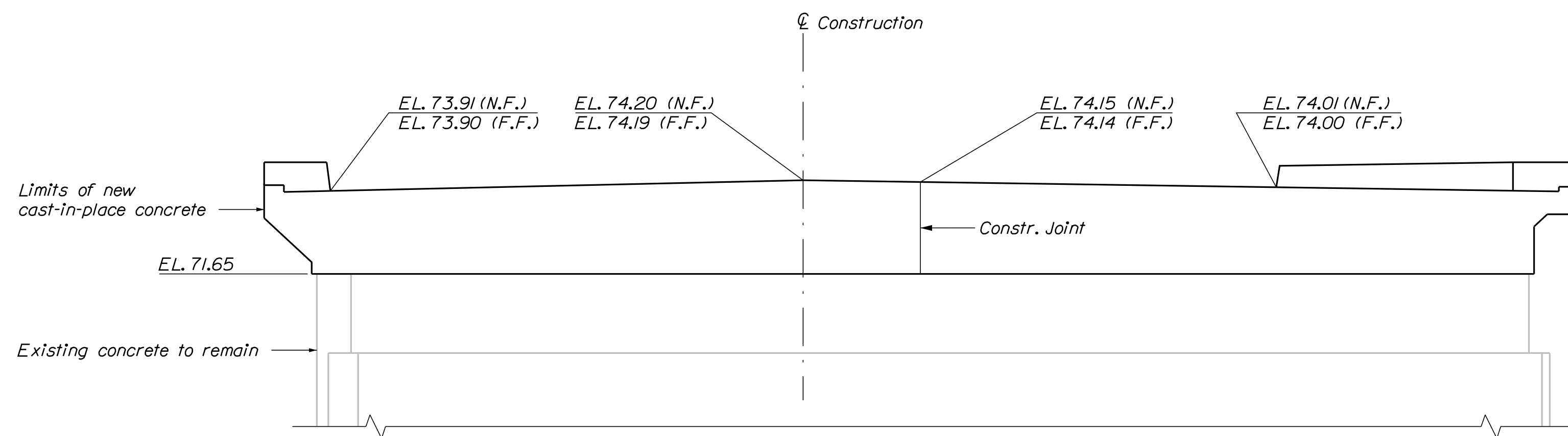
ABUTMENT AND WINGWALL REHABILITATION/MODIFICATION NOTES

1. The Contractor shall use care not to damage any existing reinforcing steel which is to remain. Any damaged reinforcing steel shall be replaced as directed by the Resident at no expense to the Department.
2. The Contractor shall locate by non-destructive methods, reinforcing steel in existing concrete before drilling and grouting new reinforcing steel to avoid conflicts. All costs associated with this work shall be incidental to related contract items.
3. Reinforcing steel shall have 2 inches cover unless otherwise noted.
4. Existing abutment and wingwall concrete to be removed as shown on the plans shall be sawcut 1 inch deep prior to removal of existing concrete. All costs associated with this work shall be incidental to related contract items.
5. Where drilling and anchoring of reinforcement is required, the Contractor shall use a material listed on 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. Payment for drilling and anchoring will be incidental to related Contract items.
6. Dimensions and layout shown are based on available as-built drawings. Contractor shall field verify all dimensions prior to any related work.
7. All surfaces to be rehabilitated shall be clean of all debris and foreign material and shall be roughened to 1/2" amplitude prior to placement of new concrete. Payment shall be incidental to related contract concrete items.
8. Projecting reinforcing that can be maintained may be left in place at Contractors discretion.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BRIDGE PLANS	
		22380.00		WIN	
		BRIDGE NO. 6635		22380.00	
PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
S. Rollins	B. Nichols	Oct. 2020			
DESIGN DETAILED	CHECKED/REVIEWED	DESIGN DETAILED	DESIGN DETAILED	REVISIONS 1	REVISIONS 2
O. Krauss		K. Brown		REVISIONS 3	REVISIONS 4
				FIELD CHANGES	
BAYVIEW STREET BRIDGE			CUMBERLAND COUNTY		
I-295			YARMOUTH		
ABUTMENT NO. 1			ABUTMENT NO. 1		
SHEET NUMBER					
19					
OF 30					



ABUTMENT NO. 2 PLAN



ABUTMENT NO. 2 ELEVATION

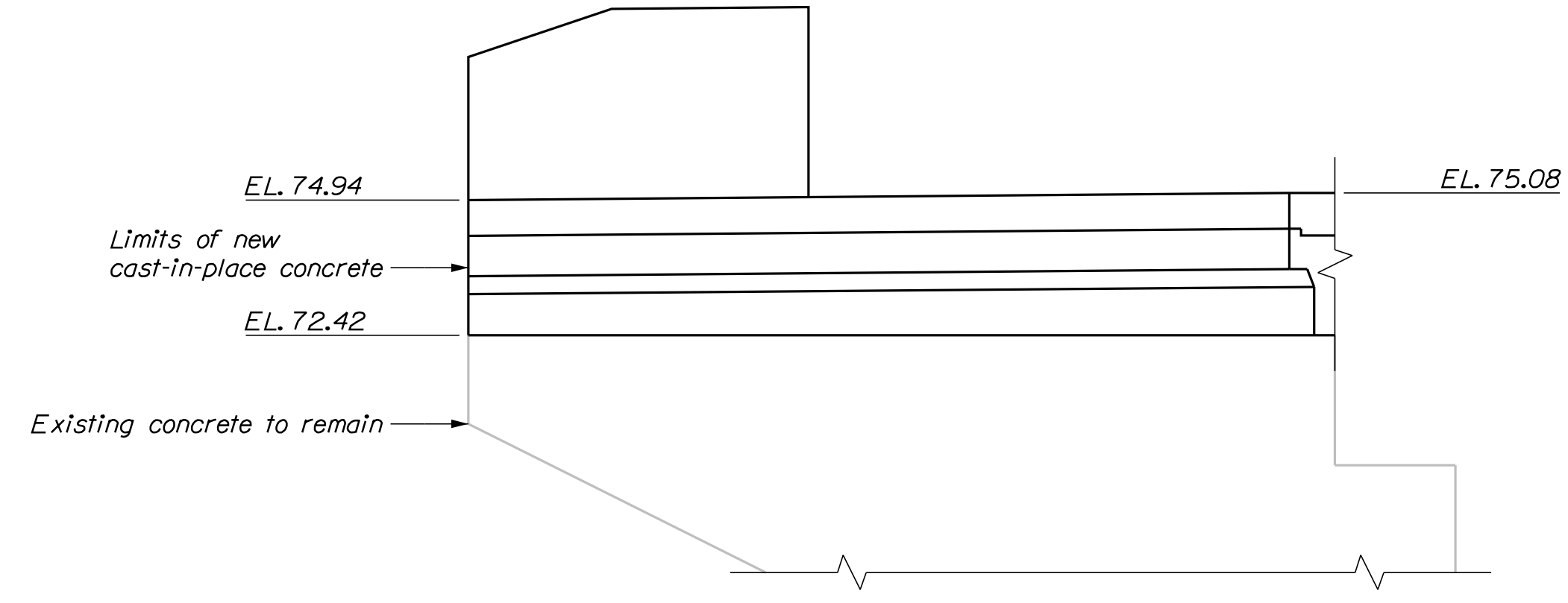
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22380.00
WIN
22380.00
BRIDGE NO. 6635
BRIDGE PLANS

DESIGNED			
CHECKED			
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REVISIONS			
REVISIONS			
REVISIONS			
FIELD CHANGES			

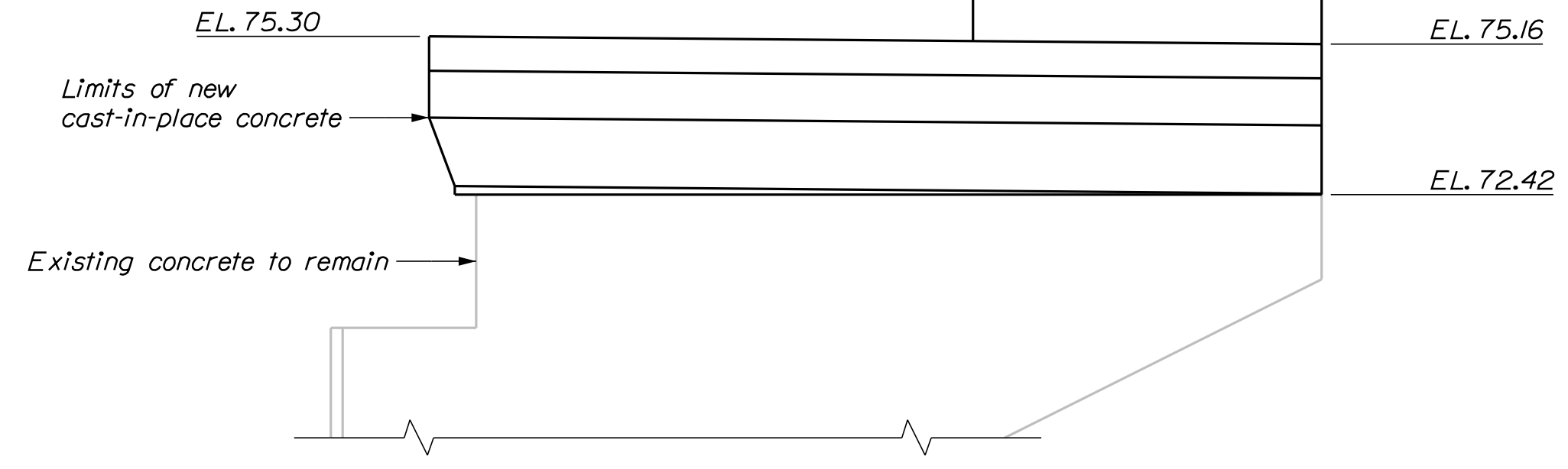
PROJ. MANAGER	BY	DATE
S. Rollins	B. Nichols	Oct. 2020
O. Krauss		Oct. 2020
K. Brown		

BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY
ABUTMENT NO. 2

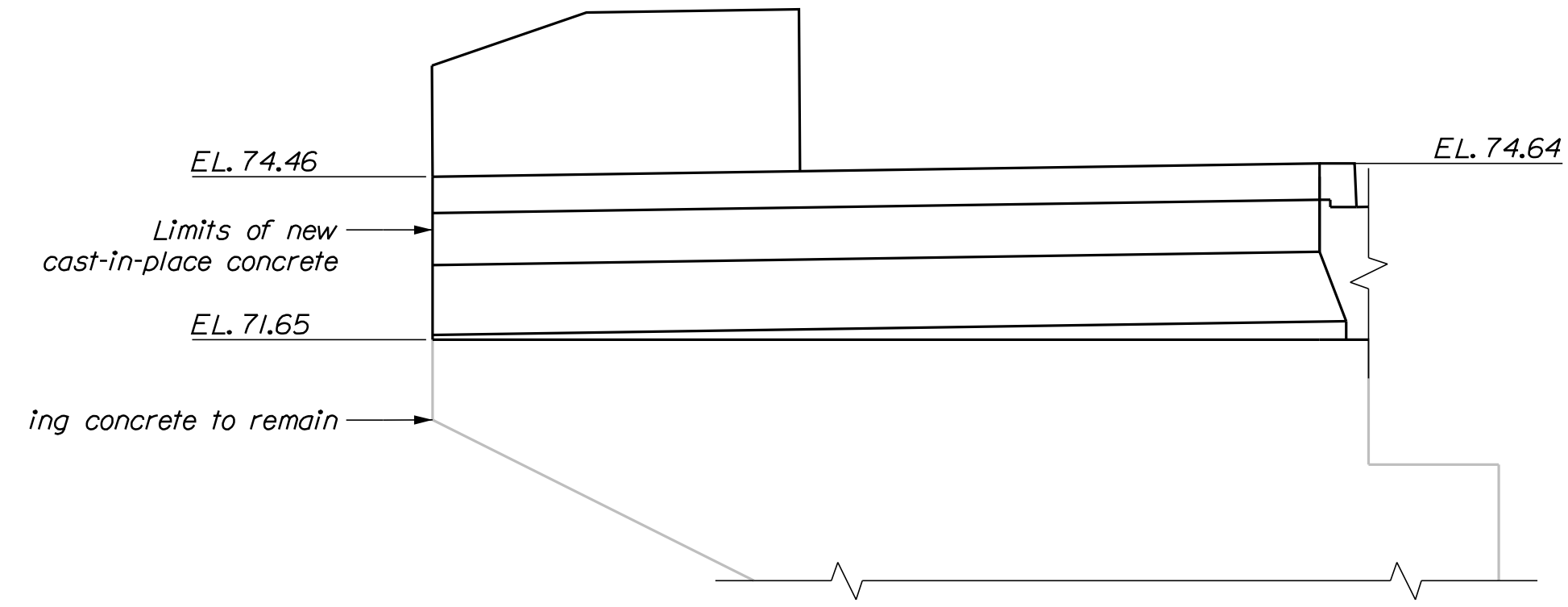
SHEET NUMBER
20
OF 30



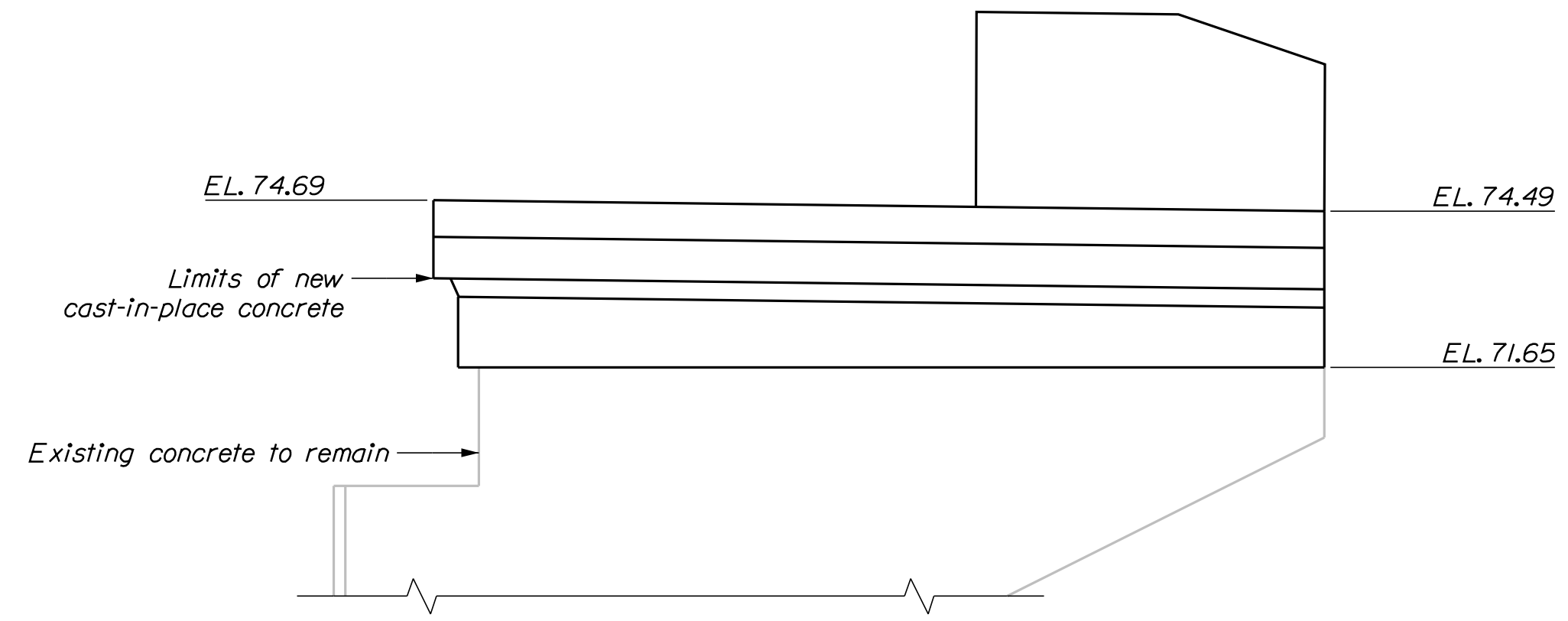
SOUTH WING ELEVATION
ABUTMENT NO. 1



NORTH WING ELEVATION
ABUTMENT NO. 1



NORTH WING ELEVATION
ABUTMENT NO. 2



SOUTH WING ELEVATION
ABUTMENT NO. 2

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22380.00
WIN
22380.00
BRIDGE NO. 6635
BRIDGE PLANS

SIGNATURE
P.E. NUMBER
DATE

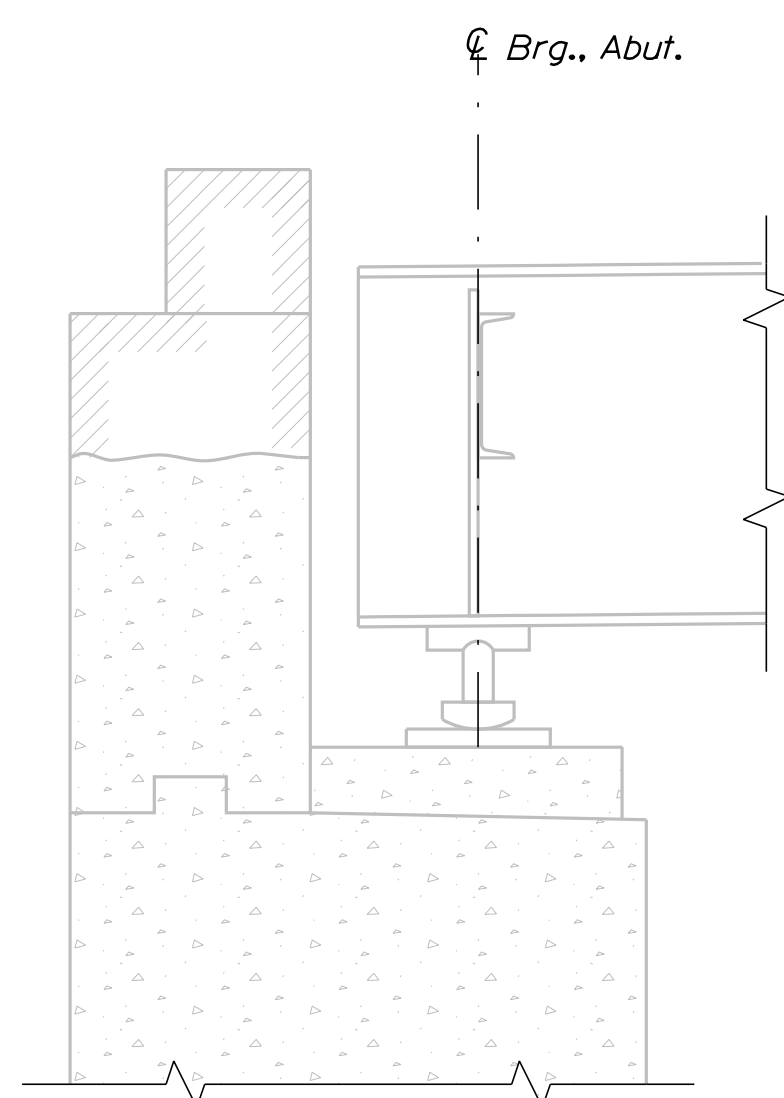
PROJ. MANAGER	BY	DATE
S. Rollins	B. Nichols	Oct. 2020
O. Krauss		Oct. 2020
K. Brown		
DESIGN-REVIEWED		
DESIGN-DETAILED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY
ABUTMENT WING
ELEVATIONS

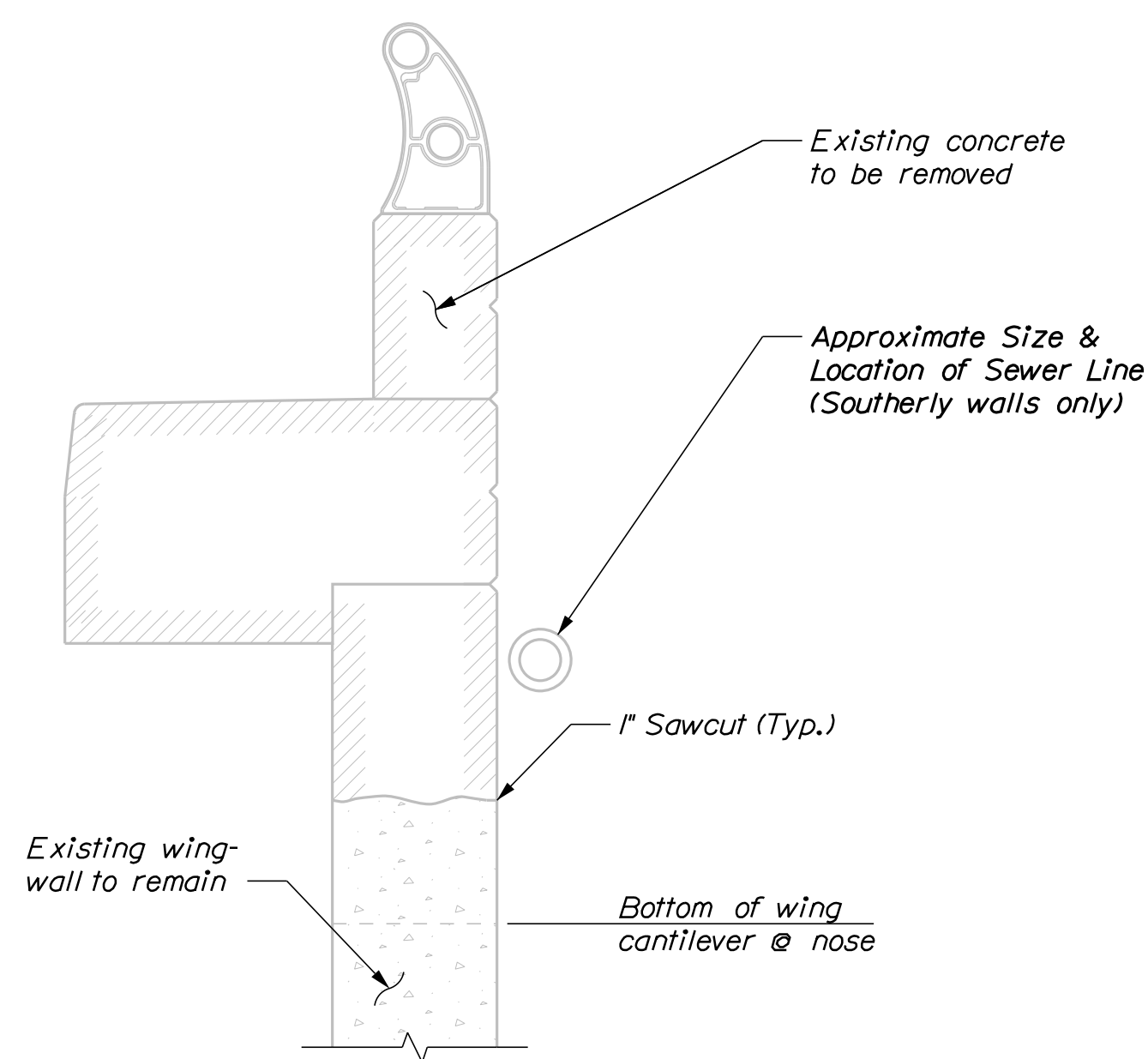
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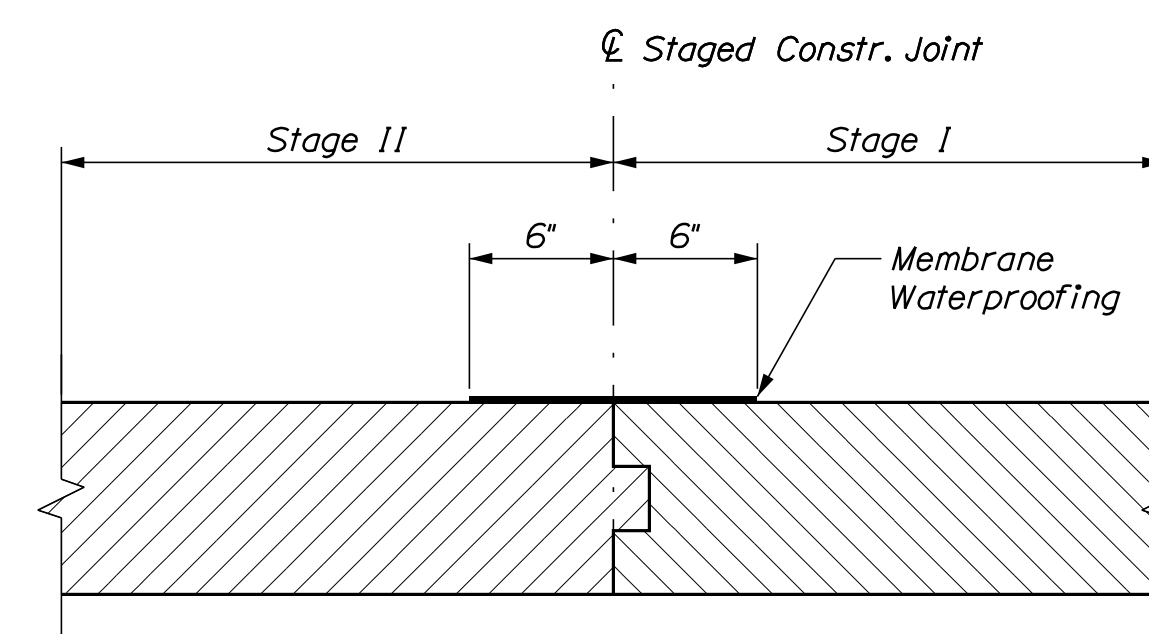
OF 30



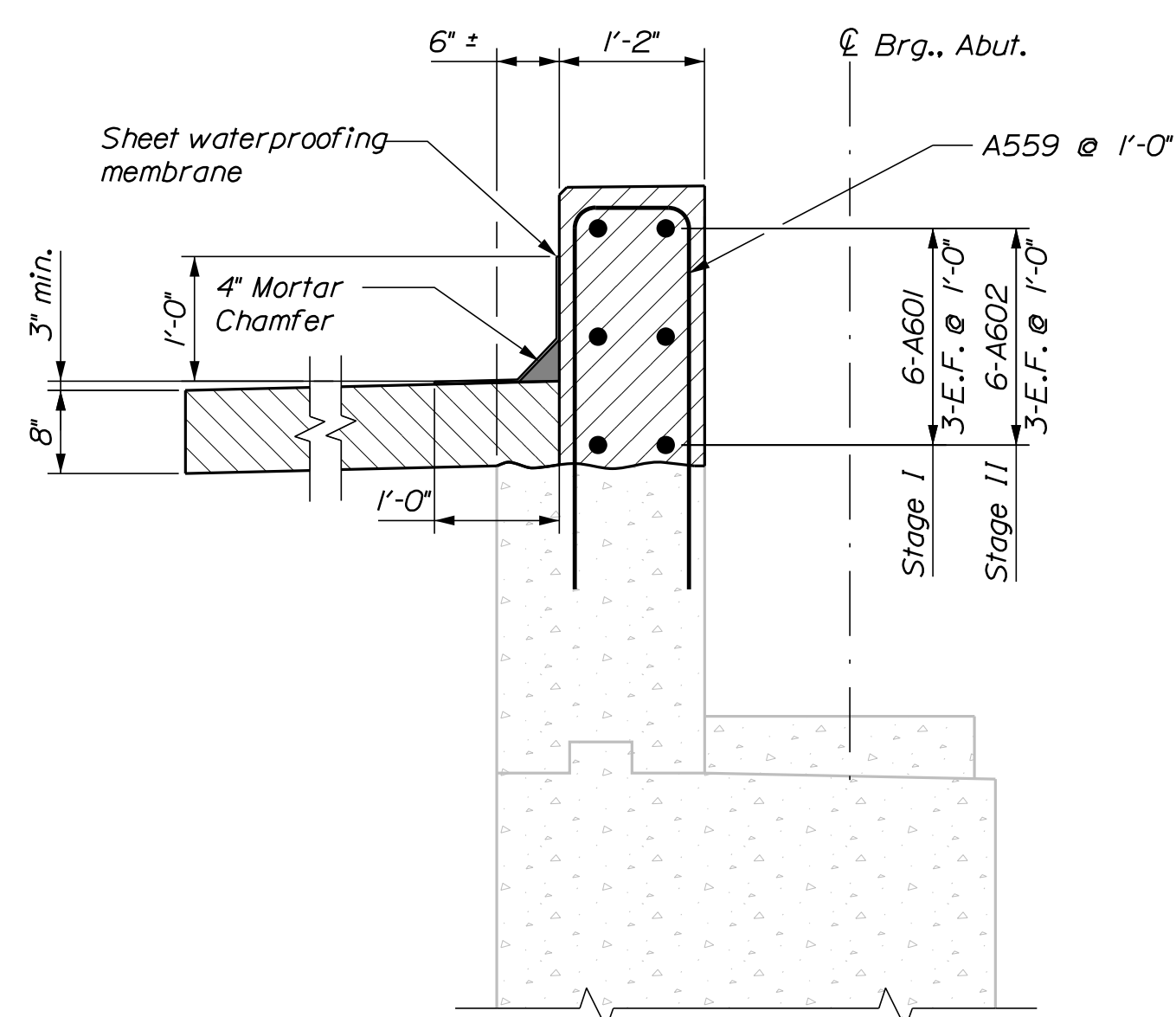
BACKWALL DEMOLITION SECTION



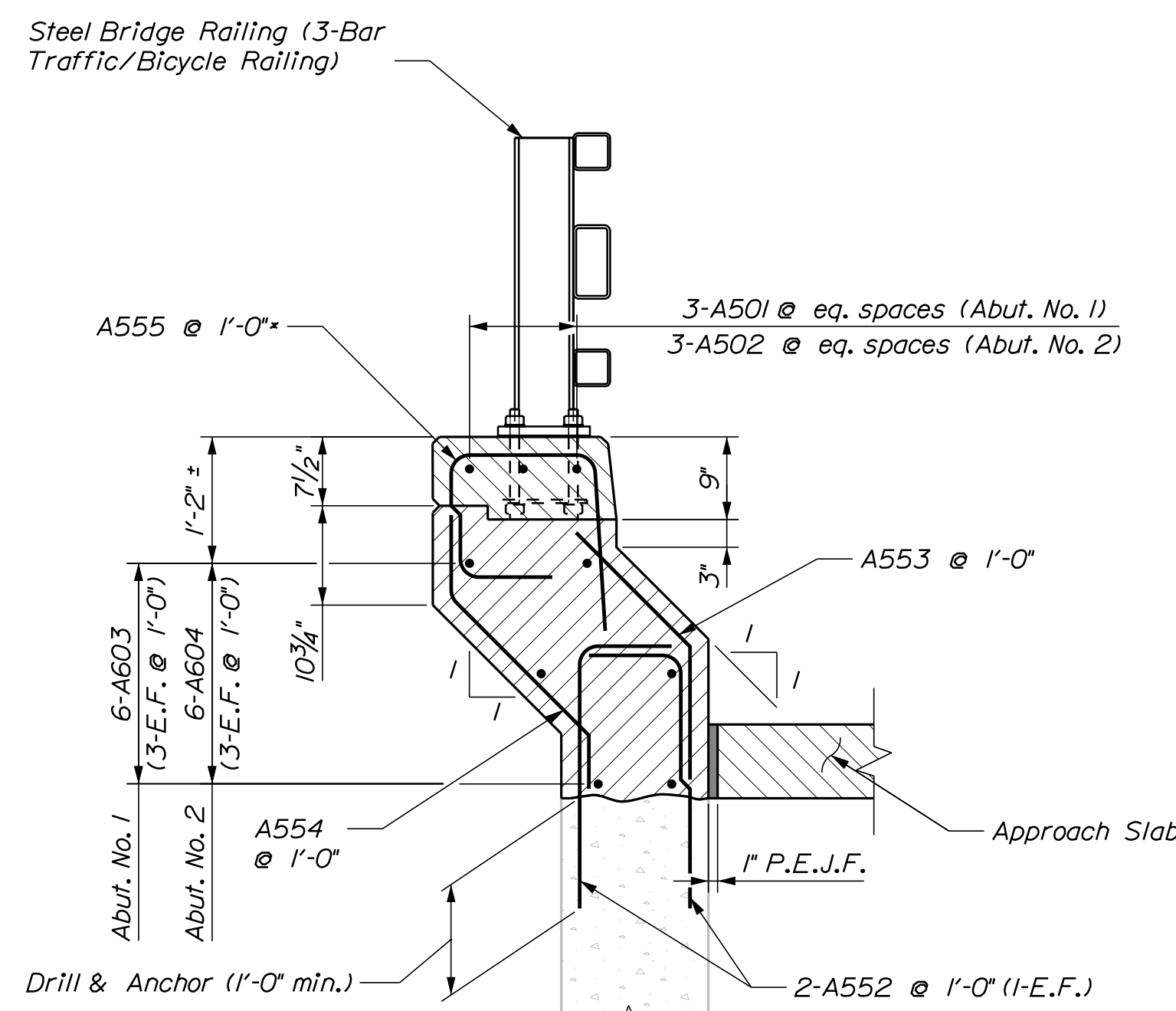
WINGWALL DEMOLITION SECTION



APPROACH SLAB CONSTRUCTION JOINT

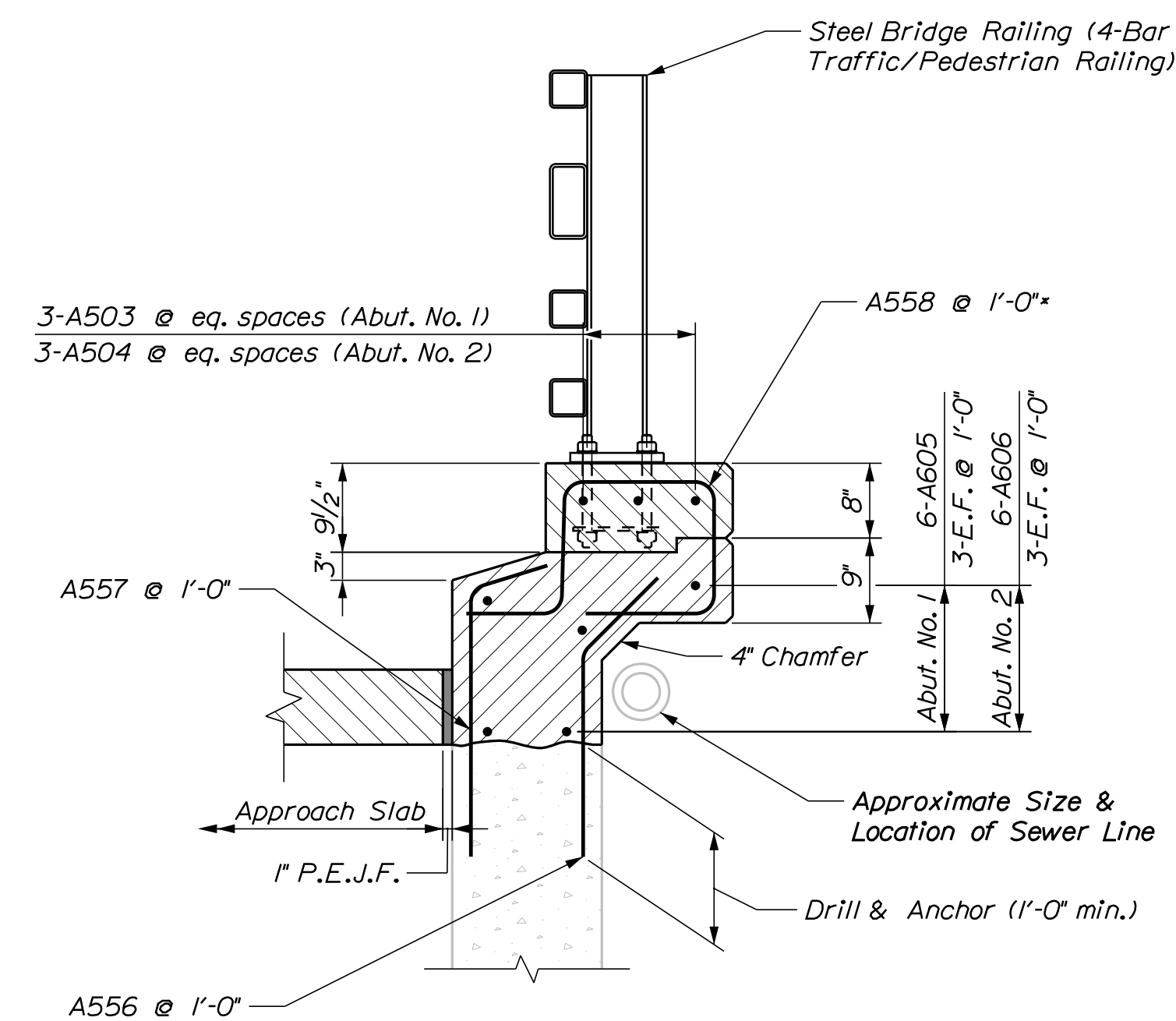


BACKWALL SECTION
(Abutment No. 1 shown - Abutment No. 2 Similar)



NORTHERLY WINGWALL RECONSTRUCTION SECTION

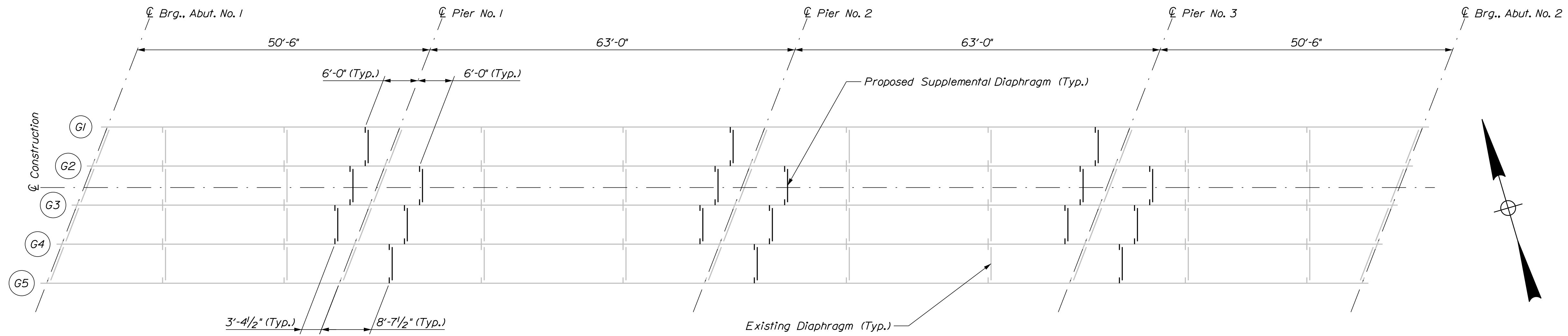
Abutment No. 1 Shown - Looking Upstation
*Additional Curb Stirrups req'd @ each railpost & Transition Barrier location - See Standard Details 507(13) & 526(28)



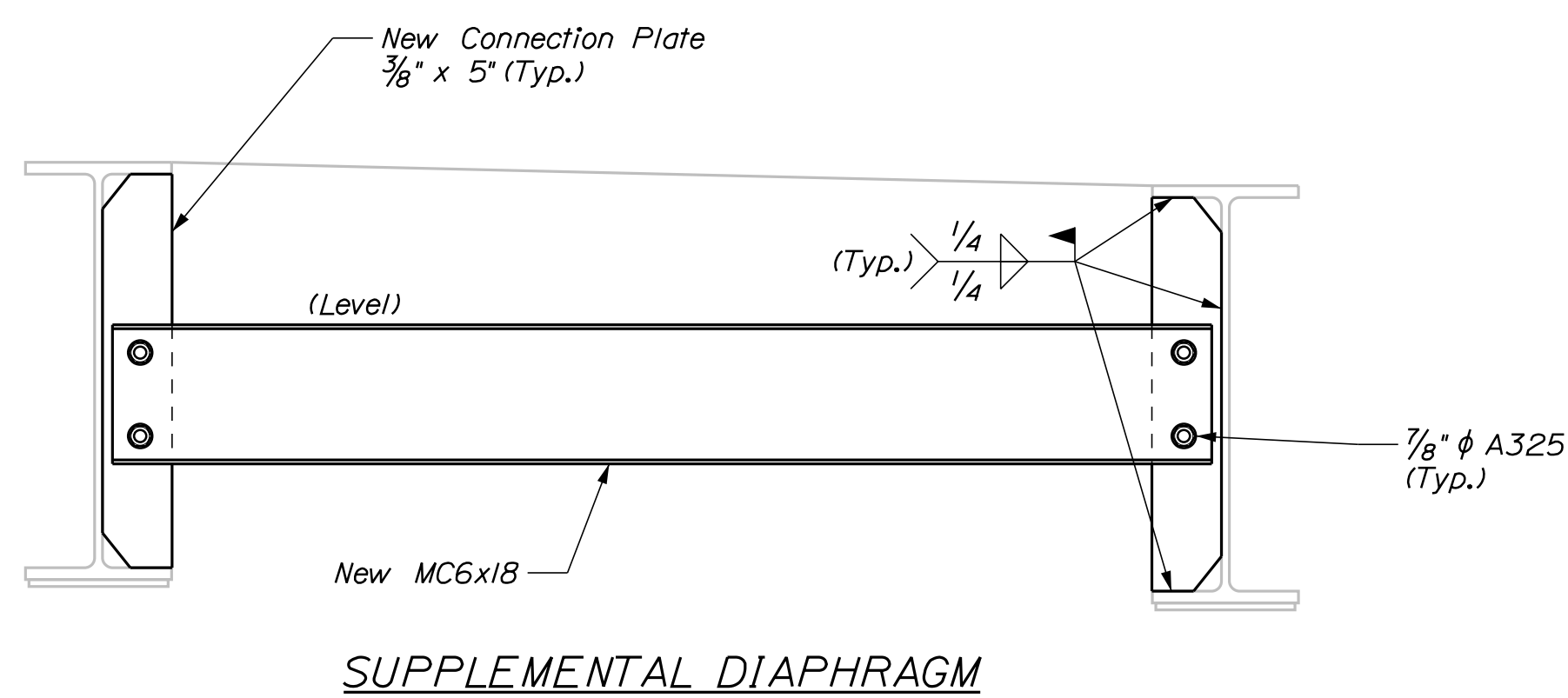
SOUTHERLY WINGWALL RECONSTRUCTION SECTION

Abutment No. 1 Shown - Looking Upstation
*Additional Curb Stirrups req'd @ each railpost & Transition Barrier location - See Standard Details 507(13) & 526(28)

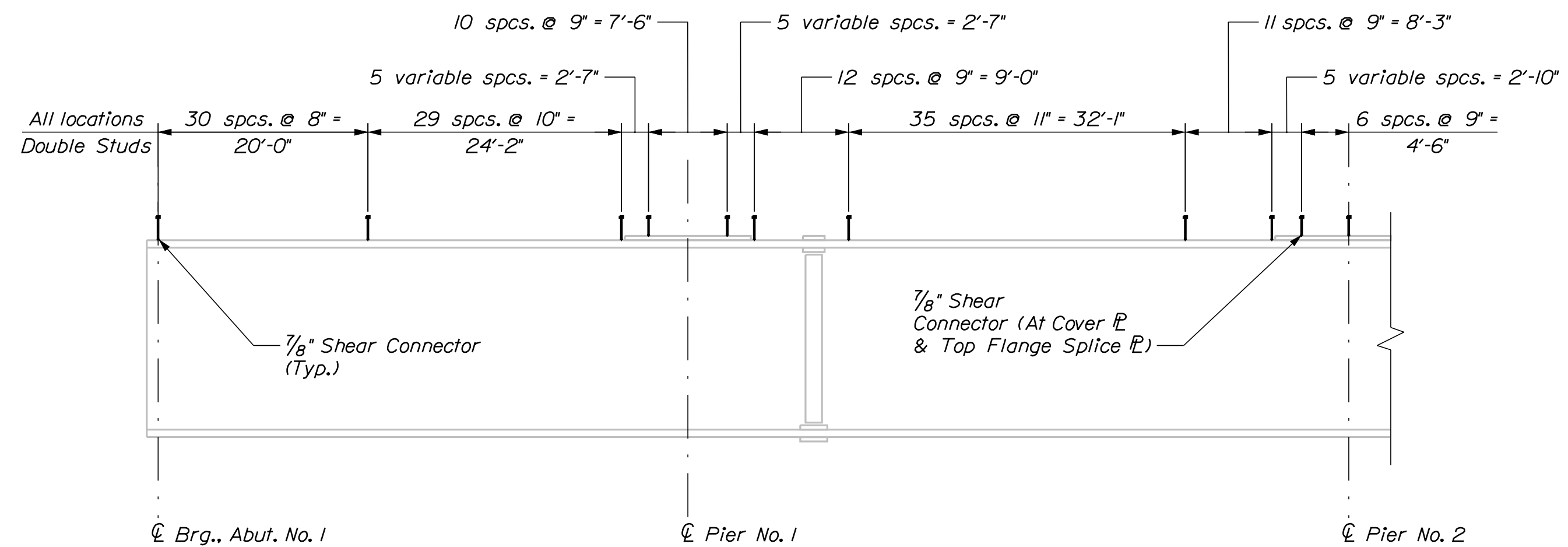
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		22380.00		WIN		22380.00	
BAYVIEW STREET BRIDGE		CUMBERLAND COUNTY		YARMOUTH		ABUTMENT DETAILS		BRIDGE NO. 6635	
I-295								BRIDGE PLANS	
SHEET NUMBER		22		OF 30					
PROJ. MANAGER	S. Rollins	BY	B. Nichols	DATE	Oct. 2020	SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED	O. Krauss	CHECKED-REVIEWED	O. Krauss	DATE	Oct. 2020				
DESIGN-DETAILED	K. Brown	DESIGN-DETAILED	K. Brown						
REVISIONS 1		REVISIONS 1							
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REVISIONS 3		REVISIONS 3							
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FIELD CHANGES									



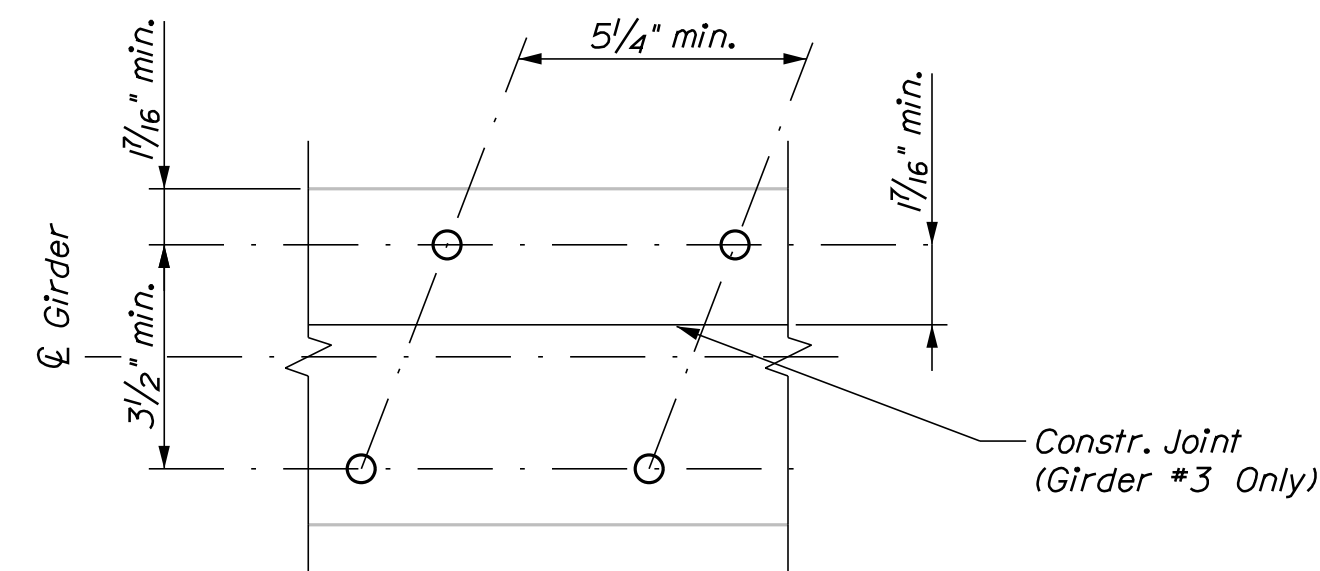
EXISTING FRAMING/DIAPHRAGM MODIFICATION LOCATION PLAN



SUPPLEMENTAL DIAPHRAGM



SHEAR STUD LAYOUT*
 Layout symmetrical about \bar{C} Pier No. 2
 594 Studs/Girder x 5 Girders = 2970 Studs
 * In the event of conflicts with existing cover plate
 tapers and top flange splice bolts, see Alternate Shear
 Stud Spacing Detail



ALTERNATE SHEAR STUD SPACING

STRUCTURAL STEEL NOTES

1. Diaphragm connection plates may be either plumb or normal to the top flange.
2. Filler plates shall be steel conforming to the requirements of ASTM A 709, Grade 36.

SHEAR STUD NOTES

1. 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. Payment for cleaning the top flange for the installation of the proposed shear studs will be considered incidental to the shear stud item.

Date: 10/13/2020

Username:

Division: BRIDGE

Filename: ... \BRIDGE\MSTA\023_Framing_1.dgn

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 22380.00
 WIN
 22380.00
 BRIDGE NO. 6635
 BRIDGE PLANS

DESIGNED BY: S. Rollins
 CHECKED BY: O. Krauss
 DESIGN REVIEWED BY: K. Brown
 REVISIONS 1
 REVISIONS 2
 REVISIONS 3
 REVISIONS 4
 FIELD CHANGES

DATE: Oct. 2020
 BY: B. Nichols
 SIGNATURE: _____
 P.E. NUMBER: _____
 DATE: _____

BAYVIEW STREET BRIDGE
 I-295
 YARMOUTH CUMBERLAND COUNTY
 STRUCTURAL STEEL DETAILS

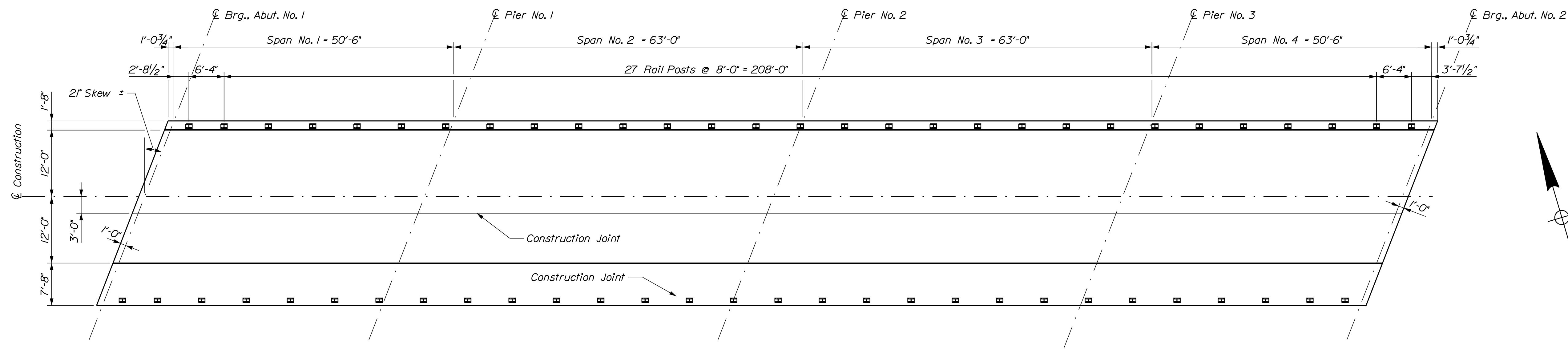
SHEET NUMBER
 23
 OF 30

Date: 10/13/2020

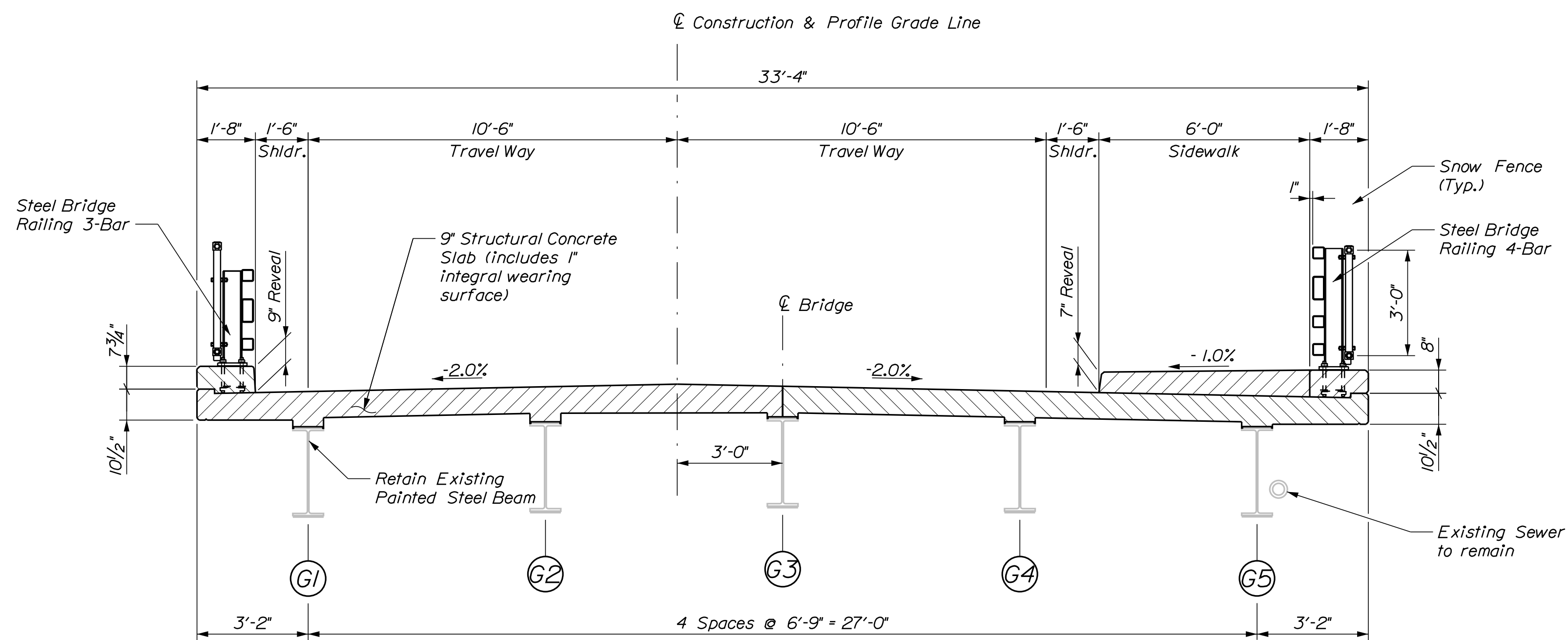
Username:

Division: BRIDGE

Filename: ... \MSTA\024_Superstructure_1.dgn



SUPERSTRUCTURE PLAN

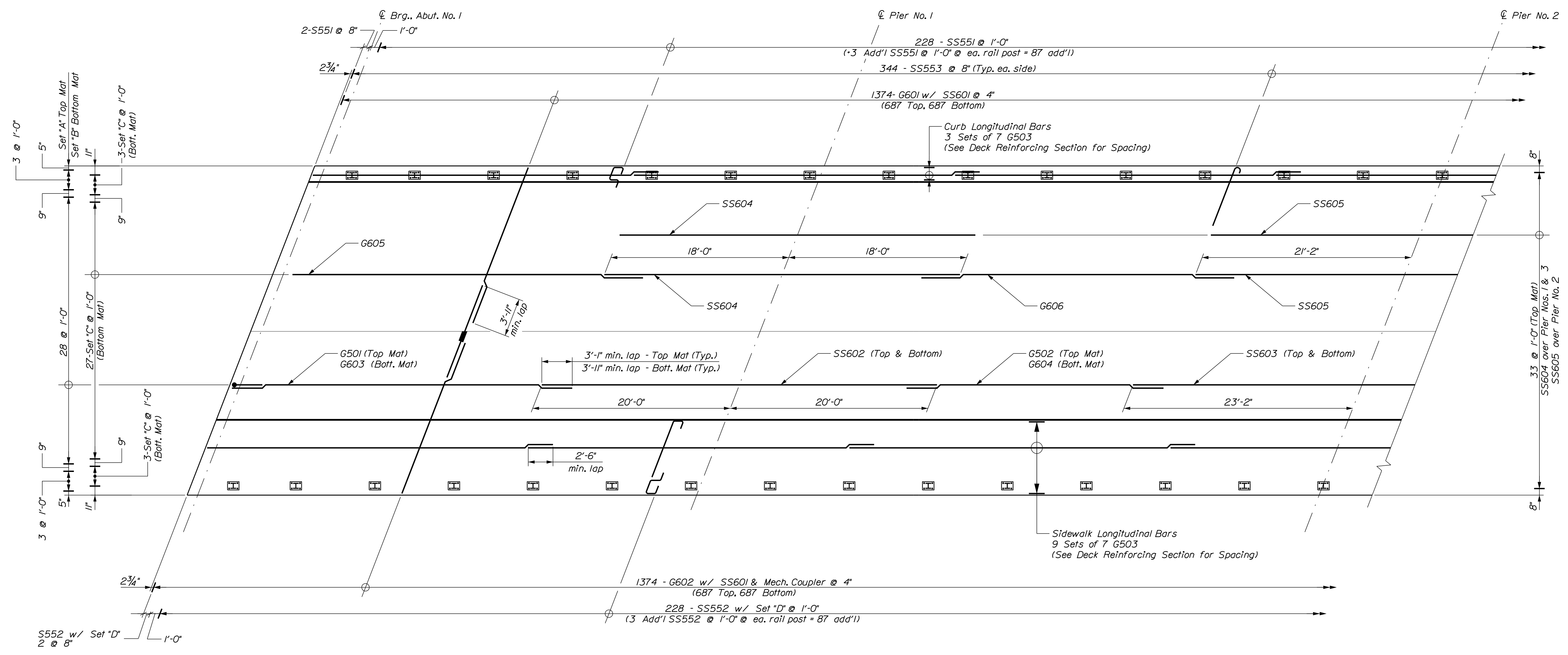


PROPOSED BRIDGE SECTION

SUPERSTRUCTURE NOTES

1. The theoretical blocking used for design was checked using as-built plans to verify it would not be less than 0 inches. Contractor to verify existing steel elevations prior to placement of forms.
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 superstructure slab concrete shall be placed in one continuous operation and the concrete shall be kept plastic one complete span behind the span being placed.
5. The seal(s) to be furnished shall have minimum Movement Ratings as follows:
 Abutment No. 1 = 1.42 inch
 Abutment No. 2 = 1.42 inch
6. The Resident shall approve the seals prior to fabrication of the Expansion Device.
7. The use of Precast Concrete Deck Panels will not be allowed on this project.
8. The Contractor shall install Transition Barrier vertical closed stirrups, as shown in Standard Details Section 526, prior to the placement of the curb or sidewalk concrete.
9. Saw Cut Grooving shall be in the longitudinal direction.
10. All mechanical rebar splices shall be stainless steel

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		22380.00
BAYVIEW STREET BRIDGE I-295 YARMOUTH CUMBERLAND COUNTY		WIN 22380.00
SUPERSTRUCTURE		BRIDGE NO. 6635 BRIDGE PLANS
PROJ. MANAGER	S. Rollins	DATE
CHECKED/DESIGNED	O. Krauss	Oct. 2020
DESIGNED/DETAILS	K. Brown	Oct. 2020
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		
		SIGNATURE
		P.E. NUMBER
		DATE
SHEET NUMBER		
24		
OF 30		



DECK REINFORCING PLAN
 Reinforcing Symmetrical about $\text{C} \text{ Pier No. 2}$
 *See Deck Reinforcing Section for Bottom Mat Layout
 Set "A": 2-SS554, 2-G501, 2-SS602, 2-G502, 1-SS603
 Set "B": 2-G603, 2-SS602, 2-G604, 1-SS603
 Set "C": 2-G605, 2-SS604, 2-G606, 1-SS605
 Set "D": 1-SS502, 1-SS503, 1-SS555, 1-SS556

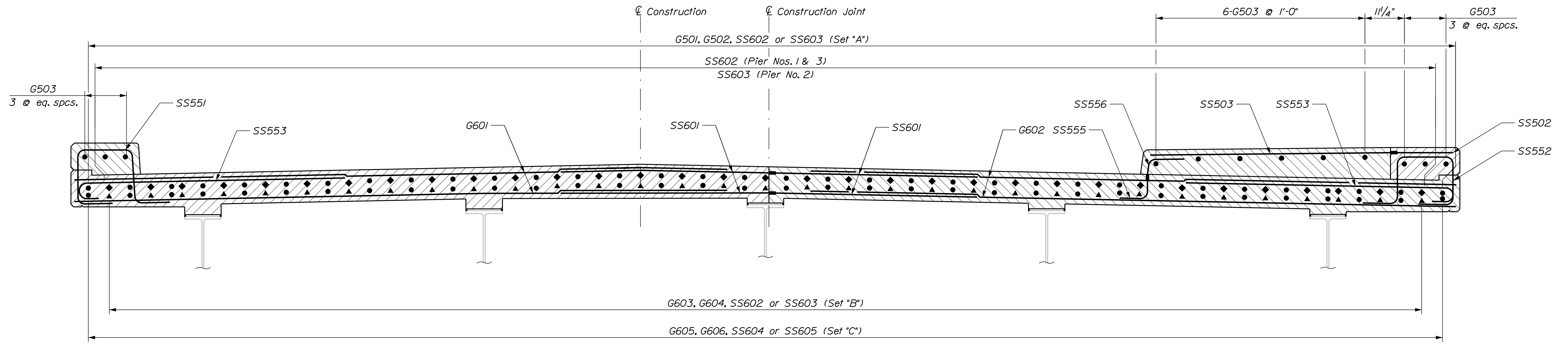
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		22380.00	
BAYVIEW STREET BRIDGE I-295 YARMOUTH CUMBERLAND COUNTY		BRIDGE NO. 6635 WIN 22380.00	
DECK REINFORCING PLAN		BRIDGE PLANS	
PROJ. MANAGER	S. Rollins	BY	DATE
CHECKED/REVIEWED	O. Krauss	B. Nichols	Oct. 2020
DESIGN/DETAILED	K. Brown		Oct. 2020
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SHEET NUMBER		25	
		OF 30	

Date: 10/13/2020

Username:

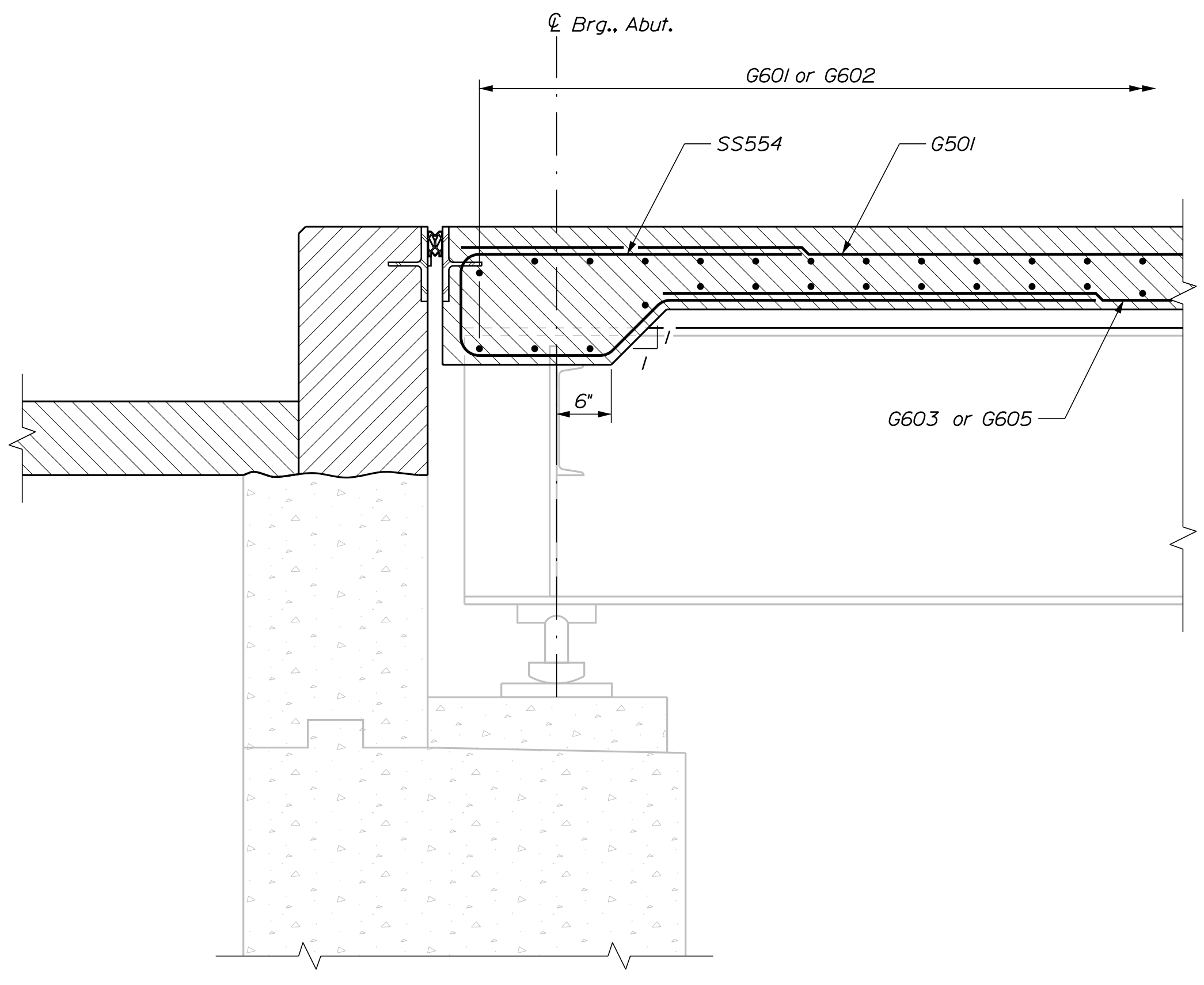
Division: BRIDGE

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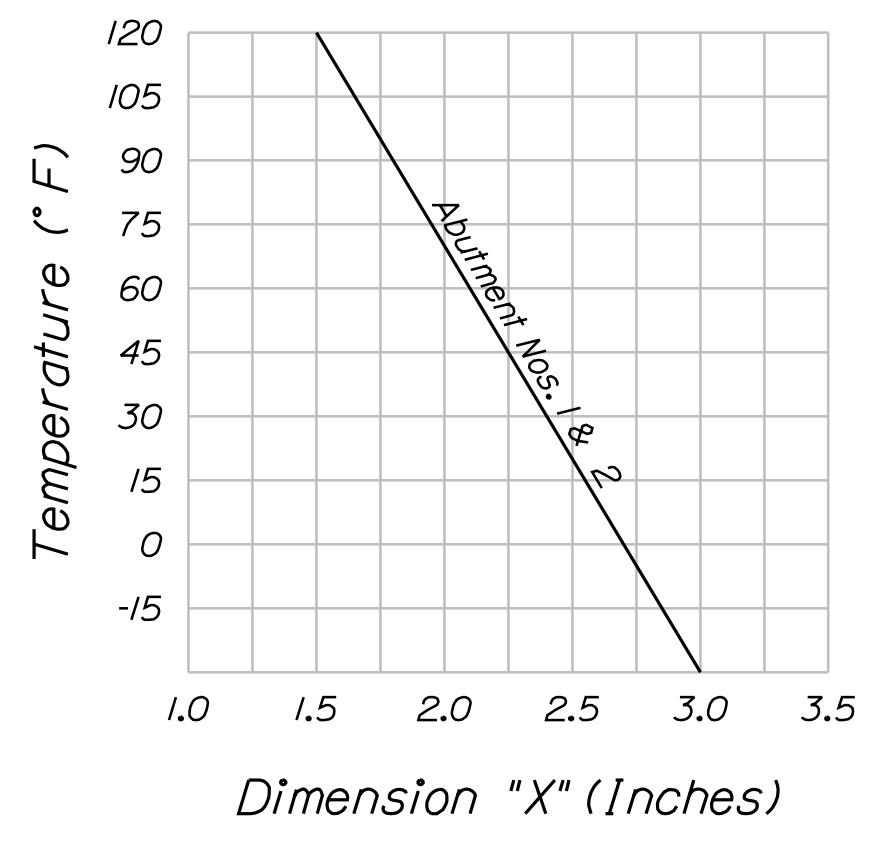


DECK REINFORCING SECTION

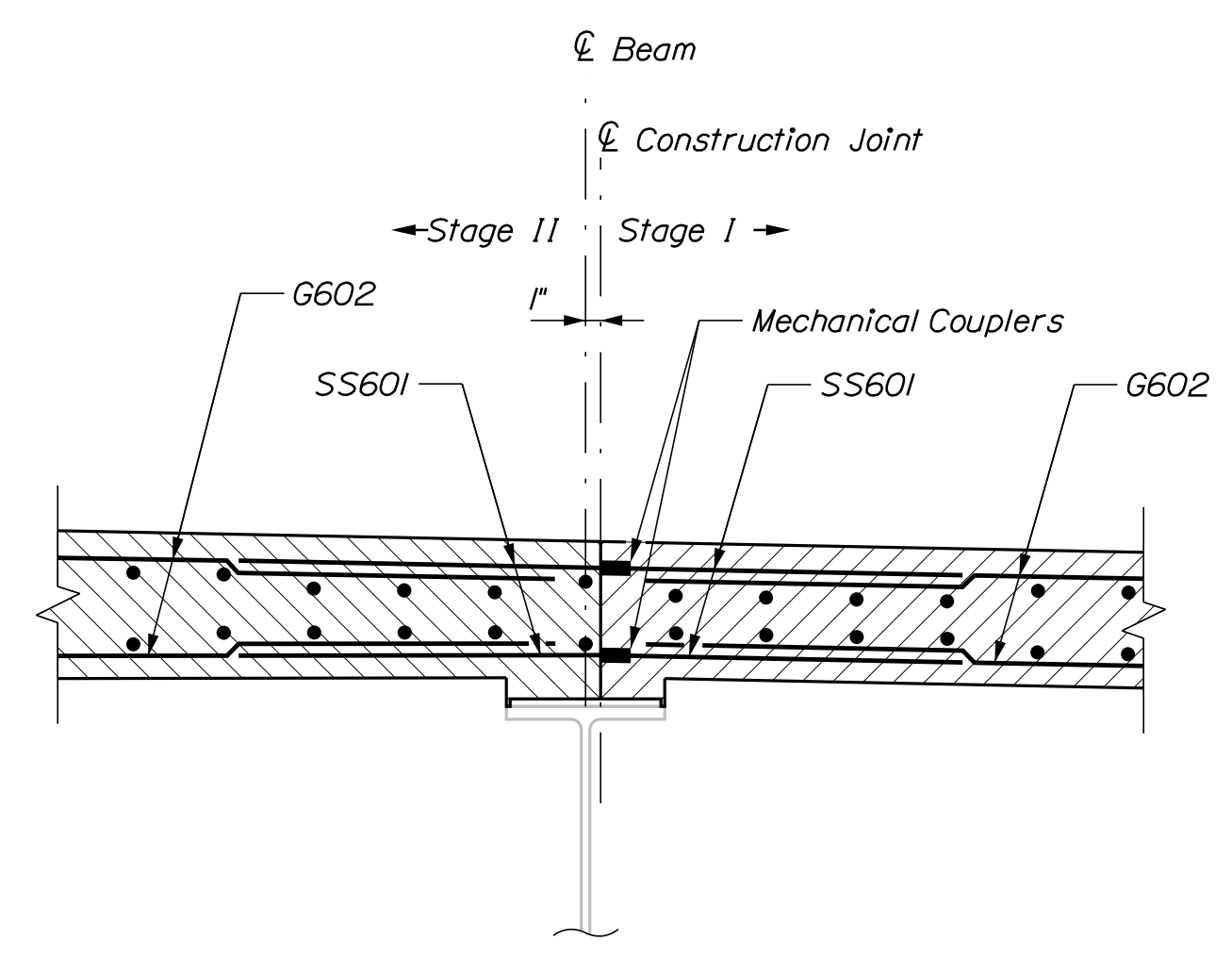
- ◆ = SS602 or SS603
- ▲ = Set "C" Reinforcing



END OF SLAB SECTION
Between Beams



EXPANSION JOINT ADJUSTMENT CHART



LONGITUDINAL DECK CONSTRUCTION JOINT DETAIL

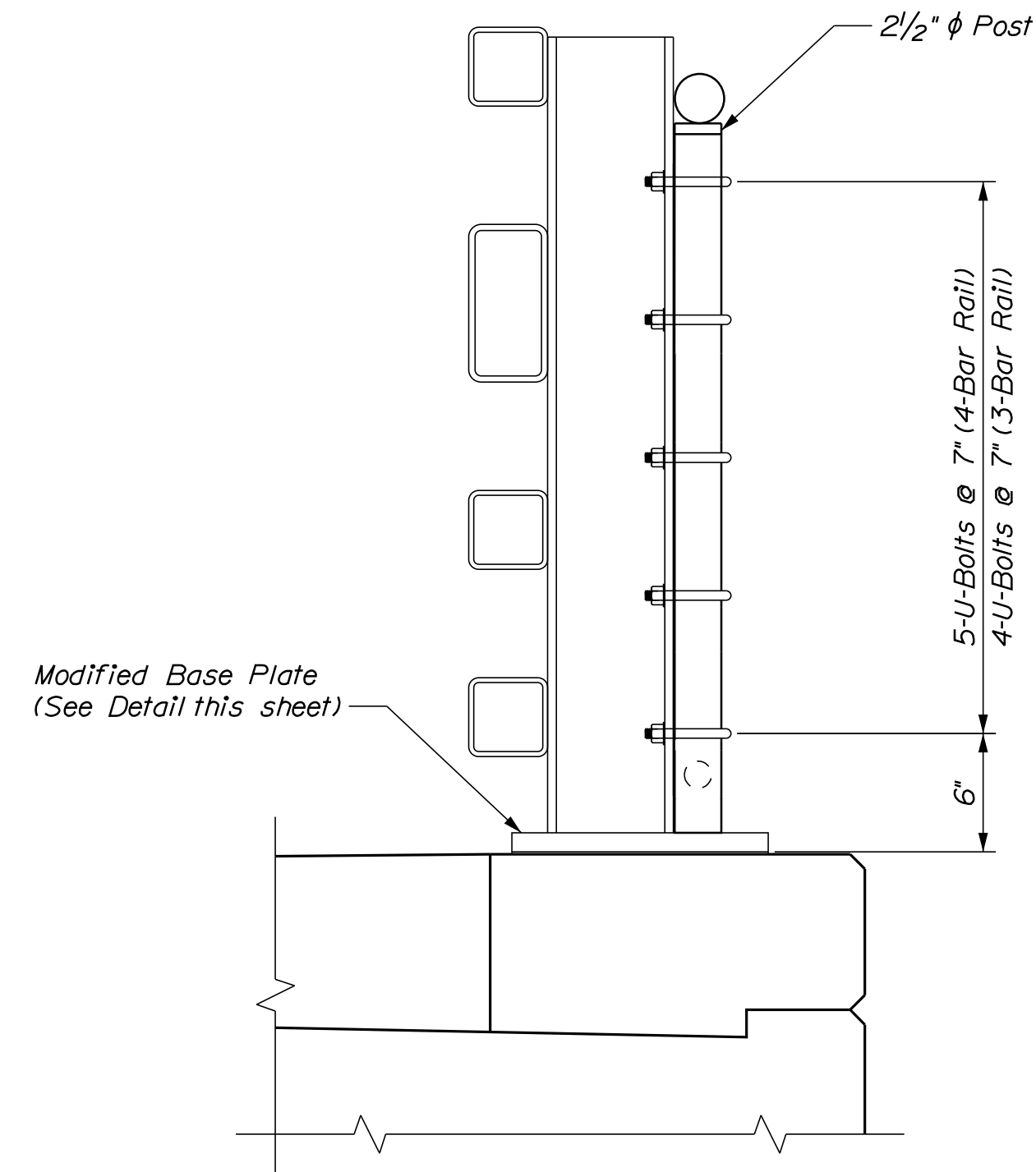
BOTTOM OF SLAB ELEVATIONS - SPANS 1 & 2

Girder	℄ Abut. 1	6.3'	12.6'	18.9'	25.3'	31.6'	37.9'	44.2'	℄ Pier 1	7.9'	15.8'	23.6'	31.5'	39.4'	47.3'	55.1'	℄ Pier 2	Girder
G1	73.83	73.89	73.93	73.98	74.01	74.05	74.07	74.10	74.12	74.14	74.16	74.17	74.18	74.18	74.17	74.15	74.13	G1
G2	73.95	74.00	74.05	74.09	74.13	74.17	74.20	74.22	74.24	74.27	74.29	74.31	74.31	74.30	74.29	74.27	74.27	G2
G3	73.94	74.00	74.05	74.09	74.13	74.17	74.20	74.22	74.25	74.28	74.30	74.32	74.33	74.33	74.32	74.31	74.29	G3
G4	73.78	73.84	73.89	73.94	73.98	74.02	74.05	74.08	74.10	74.13	74.16	74.18	74.19	74.19	74.19	74.18	74.16	G4
G5	73.62	73.68	73.74	73.79	73.83	73.87	73.90	73.93	73.96	73.99	74.02	74.04	74.05	74.06	74.06	74.05	74.03	G5

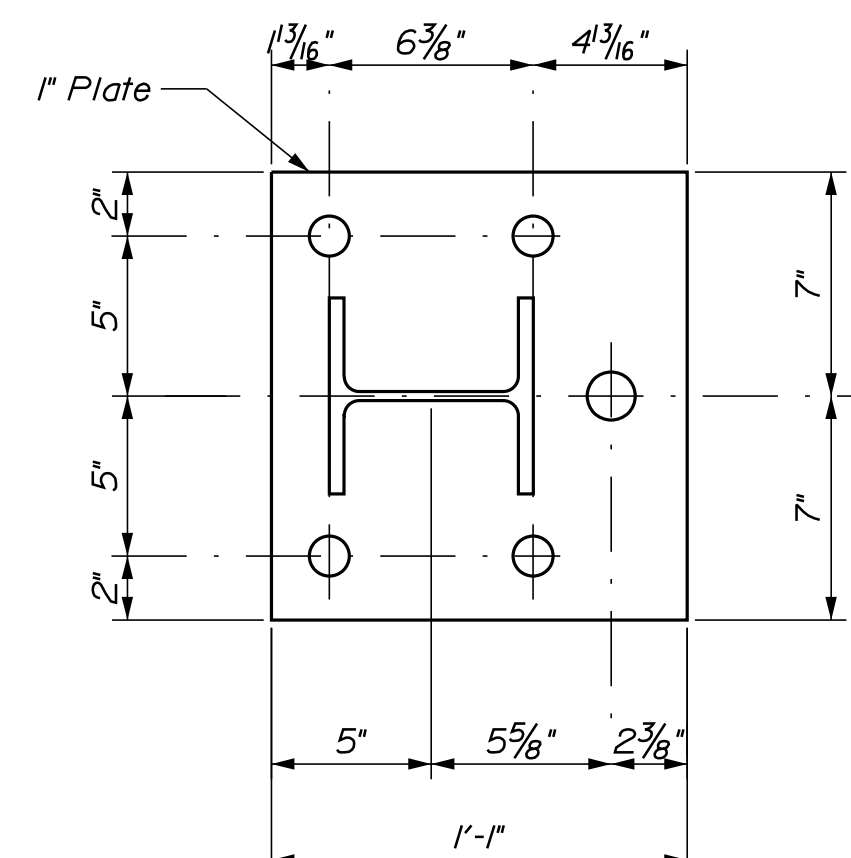
BOTTOM OF SLAB ELEVATIONS - SPANS 3 & 4

Girder	℄ Pier 2	7.9'	15.8'	23.6'	31.5'	39.4'	47.3'	55.1'	℄ Pier 3	6.3'	12.6'	18.9'	25.3'	31.6'	37.9'	44.2'	℄ Abut. 2	Girder
G1	74.13	74.11	74.08	74.04	74.00	73.95	73.89	73.83	73.76	73.70	73.64	73.58	73.51	73.44	73.36	73.28	73.21	G1
G2	74.27	74.25	74.22	74.19	74.15	74.10	74.05	73.98	73.92	73.86	73.81	73.74	73.68	73.61	73.53	73.45	73.37	G2
G3	74.29	74.27	74.25	74.22	74.18	74.13	74.08	74.02	73.96	73.90	73.85	73.79	73.72	73.65	73.58	73.50	73.42	G3
G4	74.16	74.15	74.12	74.10	74.06	74.01	73.96	73.90	73.84	73.79	73.74	73.68	73.61	73.55	73.47	73.39	73.31	G4
G5	74.03	74.02	74.00	73.97	73.94	73.89	73.84	73.79	73.73	73.68	73.62	73.57	73.51	73.44	73.37	73.29	73.21	G5

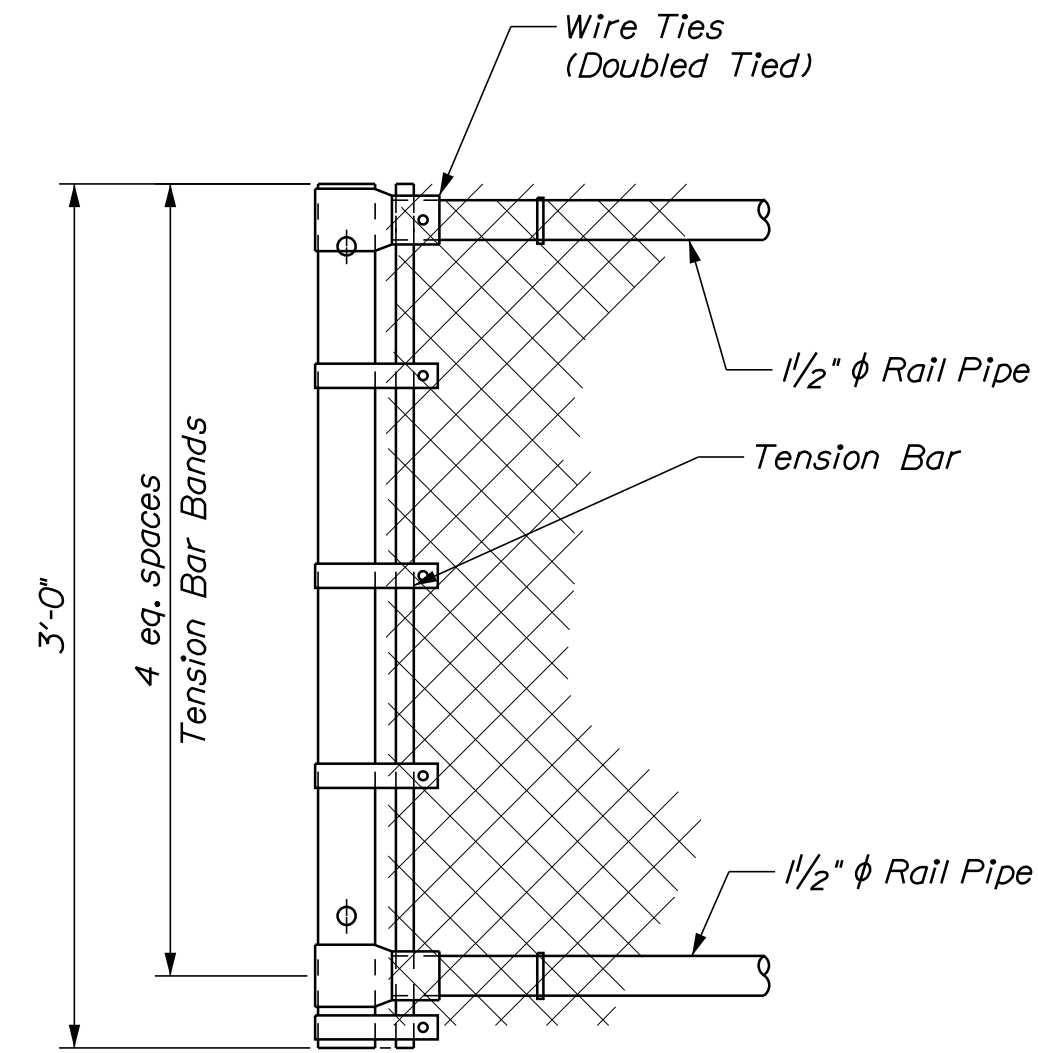
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		22380.00		WIN		22380.00		BRIDGE NO. 6635		BRIDGE PLANS	
BAYVIEW STREET BRIDGE		I-295		CUMBERLAND COUNTY		YARMOUTH		SUPERSTRUCTURE DETAILS		SHEET NUMBER		26	
PROJ. MANAGER		DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3	
S. Rollins		O. Krauss		B. Nichols		K. Brown		K. Brown		K. Brown		K. Brown	
DATE		DATE		DATE		DATE		DATE		DATE		DATE	
Oct. 2020		Oct. 2020		Oct. 2020		Oct. 2020		Oct. 2020		Oct. 2020		Oct. 2020	
SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE	
P.E. NUMBER		P.E. NUMBER		P.E. NUMBER		P.E. NUMBER		P.E. NUMBER		P.E. NUMBER		P.E. NUMBER	
DATE		DATE		DATE		DATE		DATE		DATE		DATE	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	
1		2		3		4		5		6		7	



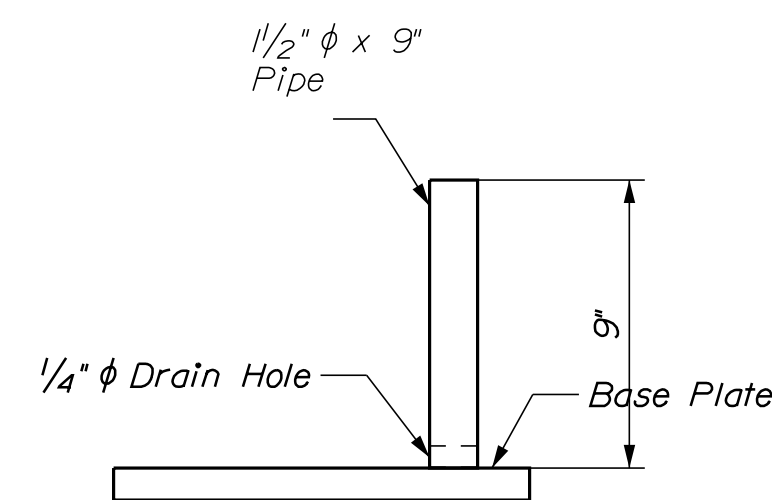
SNOW FENCE CONNECTION DETAIL



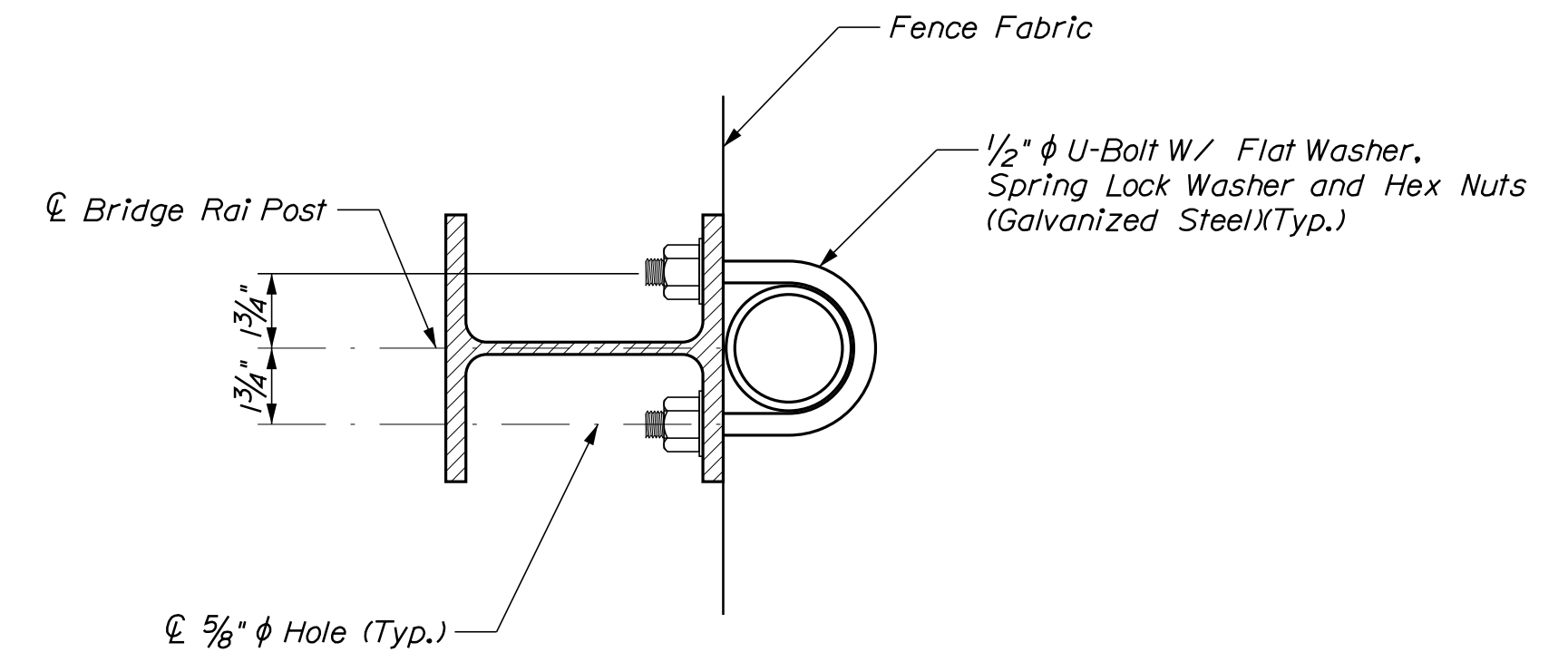
MODIFIED BASE PLATE DETAIL



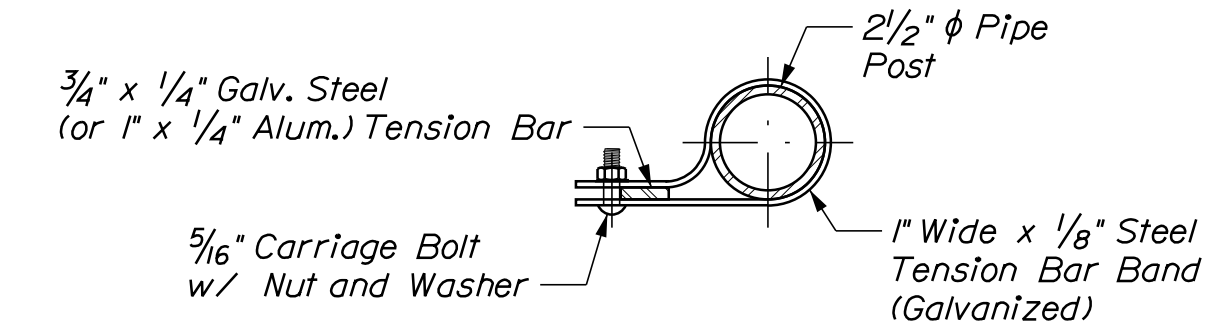
END POST DETAIL



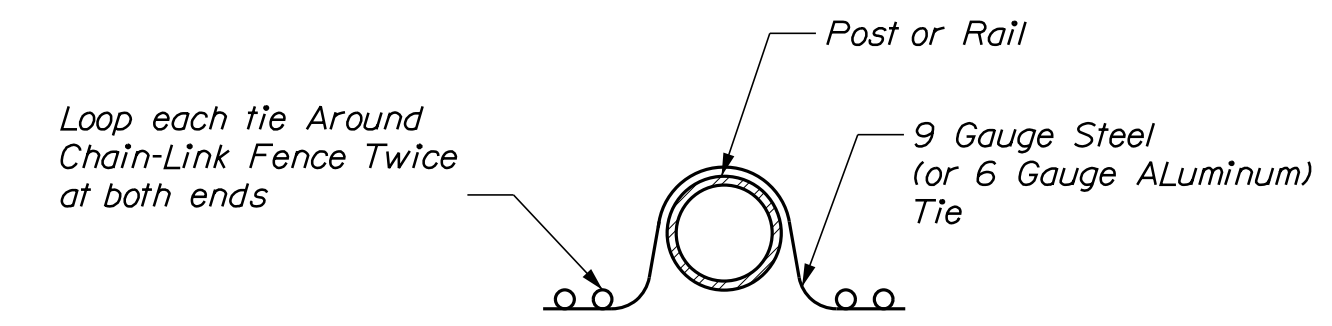
MODIFIED BASE PLATE ELEVATION



U-BOLT CONNECTION DETAIL



DOUBLE PIGTAILED TIE



DOUBLE PIGTAILED TIE

PROJ. MANAGER	S. Rollins	BY	DATE
CHECKED-REVIEWED	O. Krauss	B. Nichols	Oct. 2020
DESIGNS DETAILED	K. Brown		Oct. 2020
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BAYVIEW STREET BRIDGE
I-295
YARMOUTH CUMBERLAND COUNTY
SNOW FENCE DETAILS

SHEET NUMBER

27

Date: 10/13/2020

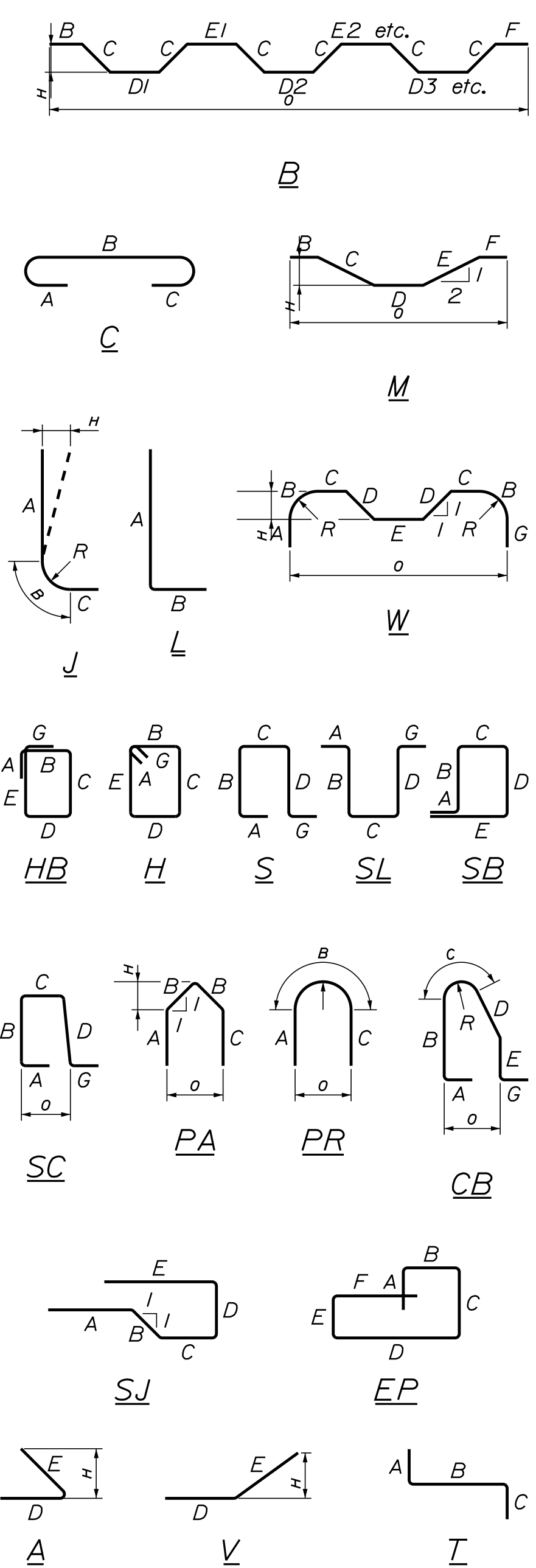
Username:

Division: BRIDGE

Filename: ... \00\BRIDGE\MSTA\028_Rebar.dgn

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	R	LOCATION	
PLAIN BAR				GFRP BAR				PLAIN BAR															
Approach Slab				Superstructure				Abutments															
AS501	20	14'-7"	Approach Slab Transverse	G501	68	34'-5"	Deck Longitudinal (Top Mat)	A552	66	3'-2"	L	2'-4	0'-10	-	-	-	-	-	-	-	-	-	Northerly Wing Dowels
AS502	20	14'-7"	Approach Slab Transverse	G502	68	26'-0"	Deck Longitudinal (Top Mat)	A553	33	2'-9"	V	-	-	-	1'-3	1'-6	-	-	1'-0	-	-	-	Northerly Wing Vertical
AS601	112	9'-6"	Approach Slab Longitudinal	G503	72	35'-0"	Curb/Sidewalk Longitudinal	A554	33	3'-0"	SJ	0'-6	1'-9	0'-9	0"	0"	-	-	-	-	-	-	Northerly Wing Vertical
				G601	1374	16'-9"	Deck Transverse	A555	53	5'-0"	SC	0'-11	1'-2	1'-4	1'-7	-	-	0"	-	1'-4	-	-	Northerly Wing Curb Stirrup
				G602	1374	16'-9"	Deck Transverse	A556	33	3'-2"	V	-	-	-	2'-3	0'-11	-	-	0'-8	-	-	-	Southerly Wing Vertical
				G603	68	33'-8"	Deck Longitudinal (Bott. Mat)	A557	33	3'-7"	V	-	-	-	2'-10	0'-9	-	-	0'-8	-	-	-	Southerly Wing Vertical
				G604	68	27'-8"	Deck Longitudinal (Bott. Mat)	A558	53	5'-6"	SC	1'-2	1'-1	1'-4	1'-1	-	-	0'-10	-	1'-4	-	-	Southerly Wing Curb Stirrup
				G605	66	35'-6"	Deck Longitudinal (Bott. Mat)	A559	68	7'-8"	S	0"	3'-5	0'-10	3'-5	-	-	0"	-	-	-	-	Abutment Backwall Stirrup
				G606	66	31'-8"	Deck Longitudinal (Bott. Mat)																
								STAINLESS STEEL BAR															
								Superstructure															
A601	12	17'-9"	Backwall Horizontal - Stage I					SS551	317	5'-6"	S	0'-10"	1'-3"	1'-4"	1'-3"	-	-	0'-10"	-	1'-4"	-	-	Curb Stirrup
A602	12	17'-0"	Backwall Horizontal - Stage II					SS552	317	5'-6"	SC	0'-10"	1'-3"	1'-4"	1'-3"	-	-	0'-10"	-	-	-	-	Curb Stirrup
A603	6	15'-8"	North Wing Horz. - Abut. 1					SS553	688	8'-7"	C	0'-7"	8'-0"	0"	-	-	-	-	-	-	-	-	Deck Overhang Hook
A604	6	15'-0"	North Wing Horz. - Abut. 2					SS554	68	9'-11"	SJ	3'-11"	0'-8"	1'-4"	0'-11"	3'-1"	-	-	-	-	-	-	End of Slap Stirrup
A605	6	15'-4"	South Wing Horz. - Abut. 1	SS502	230	1'-6"	Curb/Sidewalk Dowel	SS555	230	1'-7"	L	0'-10"	0'-9"	-	-	-	-	-	-	-	-	-	Sidewalk Transverse Set
A606	6	16'-0"	South Wing Horz. - Abut. 2	SS503	230	5'-9"	Sidewalk Transverse	SS556	230	1'-3"	L	0'-5"	0'-10"	-	-	-	-	-	-	-	-	-	Sidewalk Transverse Set
				SS601	2748	5'-0"	Transverse Dowel																
				SS602	136	40'-0"	Deck Longitudinal over Piers																
				SS603	68	46'-4"	Deck Longitudinal over Piers																
				SS604	132	36'-0"	Deck Longitudinal over Piers																
				SS605	66	42'-4"	Deck Longitudinal over Piers																

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 A 615/A 615M, Grade 60

GENERAL NOTES

1. 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

2. 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 will be based on crank bars as scheduled on the plans.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		22380.00		WIN		22380.00		BRIDGE NO. 6635		BRIDGE PLANS	
BAYVIEW STREET BRIDGE		1-295		CUMBERLAND COUNTY		YARMOUTH		REINFORCING SCHEDULE		SHEET NUMBER		28	
PROJECT MANAGER		S. Rollins		BY		B. Nichols		DATE		DESIGN-DETAILED		O. Krauss	
CHECKED-REVIEWED		O. Krauss		DESIGN-DETAILED		K. Brown		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		O. Krauss		DESIGN-DETAILED		K. Brown		REVISIONS 1		REVISIONS 2		REVISIONS 3	
DESIGN-DETAILED		K. Brown		REVISIONS 4		FIELD CHANGES							

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 _____
 Sign _____
 Clearing Limit Line _____
 Bush Line _____
 Rock/Boulder _____
 Barb Wire _____
 Well _____
 Flag Pole _____
 Stockade _____
 Mailbox _____

PLAN LEGEND

Existing Proposed

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 _____

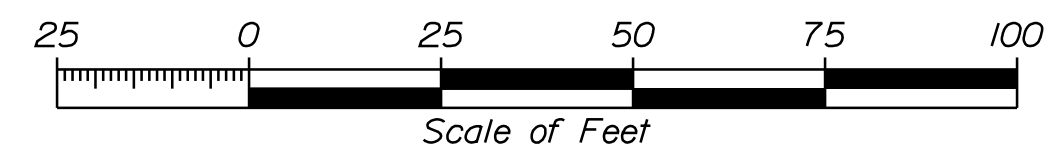
Cut Line _____
 Stonewall _____
 Baseline _____
 Monument _____
 Iron Rod Found _____
 Replacement Pin Set _____

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 ADJUTING PROPERTY OWNERS.

STATE OF MAINE
 REGISTRY OF DEEDS

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



CONTROLLED ACCESS LIMIT

CONTROLLED ACCESS LIMIT LINE
 ALONG R/W LINE

R/W LINE
 CONTROLLED ACCESS LIMIT LINE NOT
 ON R/W LINE

NO ACCESS WILL BE PERMITTED TO OR FROM STATE HIGHWAY '95' AND ADJOINING PROPERTIES WITHIN BOUNDARIES DEFINED BY CONTROLLED ACCESS LIMIT LINES

CURVE DATA #1
 PI = 100+68.44
 D = 7°09'43.1"
 Δ = 09°46'47.7" Lt
 R = 800.00'
 L = 136.55'
 T = 68.44'
 E = 2.92'

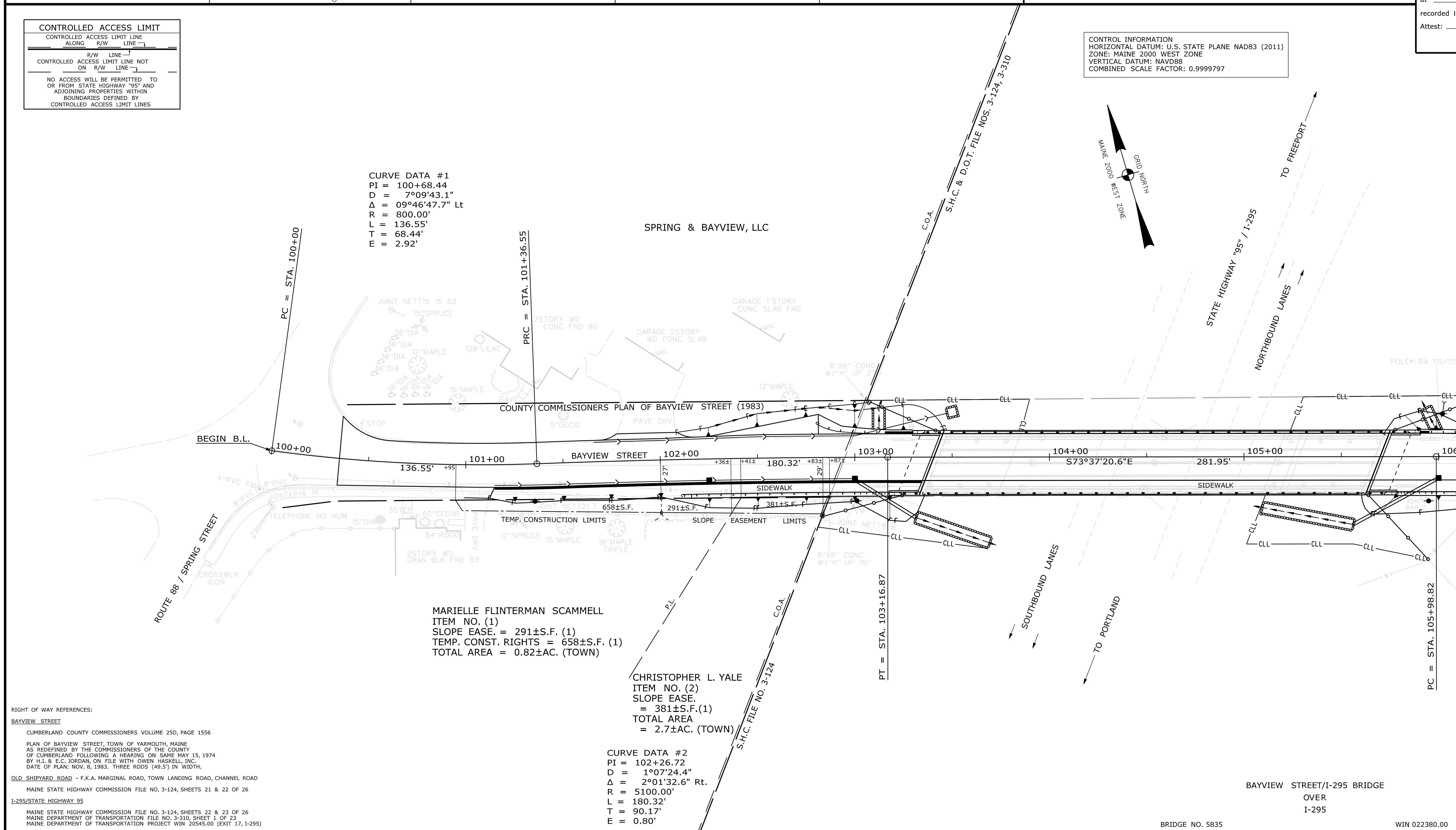
CONTROL INFORMATION
 HORIZONTAL DATUM: U.S. STATE PLANE NAD83 (2011)
 ZONE: MAINE 2000 WEST ZONE
 VERTICAL DATUM: NAVD88
 COMBINED SCALE FACTOR: 0.9999797

Date: 10/14/2020

Username: Mark.Poulin

Division: BRIDGE

Filename: ... \00\ROW\MSTA001_RWP\PLAN1.dgn



RIGHT OF WAY REFERENCES:
 BAYVIEW STREET
 CUMBERLAND COUNTY COMMISSIONERS VOLUME 25D, PAGE 1556
 PLAN OF BAYVIEW STREET, TOWN OF YARMOUTH, MAINE AS REDEFINED BY THE COMMISSIONERS OF THE COUNTY OF CUMBERLAND FOLLOWING A HEARING ON SAME MAY 15, 1974 BY H.L. & E.C. JORDAN, ON FILE WITH OWEN HASKELL, INC. DATE OF PLAN: NOV. 8, 1983. THREE RODS (49.5') IN WIDTH.
 OLD SHIPYARD ROAD - F.K.A. MARGINAL ROAD, TOWN LANDING ROAD, CHANNEL ROAD
 MAINE STATE HIGHWAY COMMISSION FILE NO. 3-124, SHEETS 21 & 22 OF 26
 I-295/STATE HIGHWAY 95
 MAINE STATE HIGHWAY COMMISSION FILE NO. 3-124, SHEETS 22 & 23 OF 26
 MAINE DEPARTMENT OF TRANSPORTATION FILE NO. 3-310, SHEET 1 OF 23
 MAINE DEPARTMENT OF TRANSPORTATION PROJECT WIN 20545.00 (EXIT 17, I-295)

CURVE DATA #2
 PI = 102+26.72
 D = 1°07'24.4"
 Δ = 2°01'32.6" Rt.
 R = 5100.00'
 L = 180.32'
 T = 90.17'
 E = 0.80'

ITEM	EXISTING CONDITION PLAN	JH	TECH	JH	CHECKED	
	FINAL RIGHT OF WAY AREAS	JH				
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		YARMOUTH		RIGHT OF WAY MAP		
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460						

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

BRUCE A. VAN NOTE
 COMMISSIONER
 JOYCE NOEL TAYLOR
 CHIEF ENGINEER

DATE _____

TOWN WAY
 BAYVIEW STREET
 YARMOUTH CUMBERLAND COUNTY
 FEDERAL AID PROJECT NO. 2238000

FEBRUARY 2020
 SCALE 1" = 25'

RIGHT-OF-WAY MAP
 SHEET 1 OF 3

D.O.T. FILE NO. 3-653

SHEET NUMBER
 29
 OF 30

Date: 10/14/2020

Username: Mark Poulin

Division: BRIDGE

Filename: ... \00\ROW\WSTA002_RWPLAN2.dgn

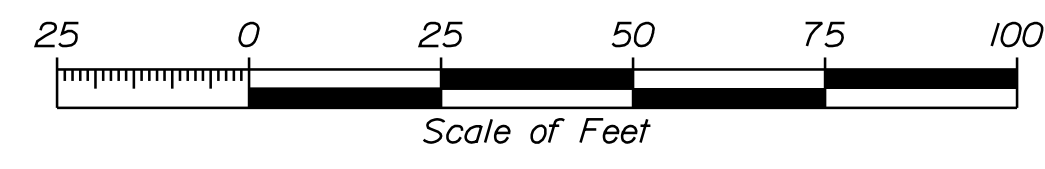
Town, County, State	_____
Approx. Property Lines	P.L.
Existing Right of Way	_____
Limits of Wrought Portion	L.O.W.P.
Control Of Access	C.O.A.
New Right of Way	_____
New Easement	_____
New Temporary Rights	_____
New R/W Within Existing R/W	_____

New R/W	Along Existing R/W
Building	Clearing Limit Line
Trees	Conifer
Tree Line	Bush Line
Water Edge	_____
Ledge	_____
Fence	CHAIN LINK
Sign	_____
	Rock/Boulder
	Flag Pole
	BARB WIRE
	STOCKADE
	WELL
	Mallbox

PLAN LEGEND	
Existing	Proposed
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 ADJUTING PROPERTY OWNERS.



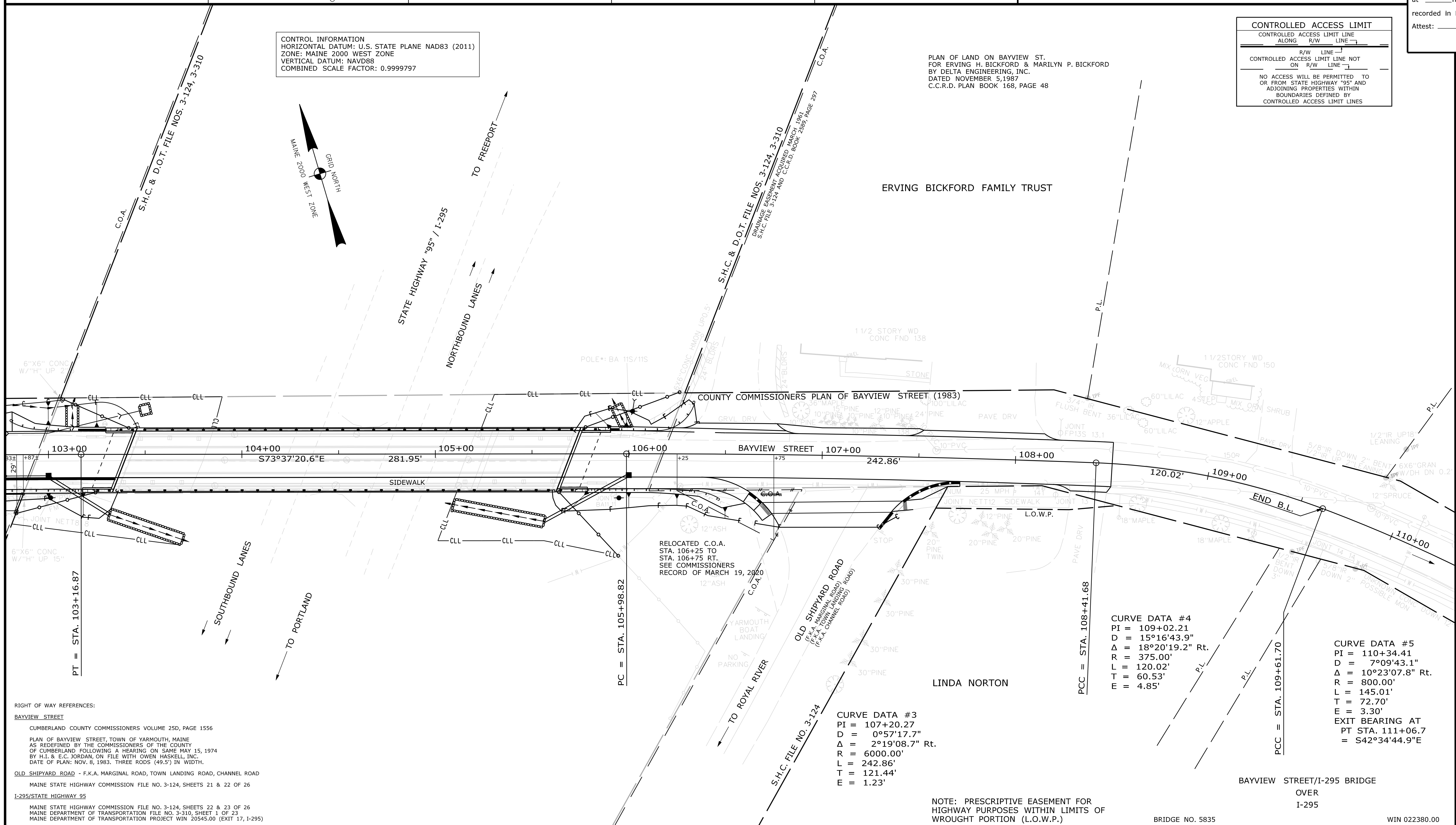
STATE OF MAINE
REGISTRY OF DEEDS

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

CONTROL INFORMATION
HORIZONTAL DATUM: U.S. STATE PLANE NAD83 (2011)
ZONE: MAINE 2000 WEST ZONE
VERTICAL DATUM: NAVD88
COMBINED SCALE FACTOR: 0.9999797

CONTROLLED ACCESS LIMIT
CONTROLLED ACCESS LIMIT LINE
ALONG R/W LINE
CONTROLLED ACCESS LIMIT LINE NOT ON R/W LINE
NO ACCESS WILL BE PERMITTED TO OR FROM STATE HIGHWAY '95' AND ADJOINING PROPERTIES WITHIN BOUNDARIES DEFINED BY CONTROLLED ACCESS LIMIT LINES

PLAN OF LAND ON BAYVIEW ST. FOR ERVING H. BICKFORD & MARILYN P. BICKFORD BY DELTA ENGINEERING, INC. DATED NOVEMBER 5, 1987 C.C.R.D. PLAN BOOK 168, PAGE 48



RIGHT OF WAY REFERENCES:
BAYVIEW STREET
CUMBERLAND COUNTY COMMISSIONERS VOLUME 25D, PAGE 1556
PLAN OF BAYVIEW STREET, TOWN OF YARMOUTH, MAINE AS REDEFINED BY THE COMMISSIONERS OF THE COUNTY OF CUMBERLAND FOLLOWING A HEARING ON SAME MAY 15, 1974 BY H.I. & E.C. JORDAN, ON FILE WITH OWEN HASKELL, INC. DATE OF PLAN: NOV. 8, 1983. THREE RODS (49.5') IN WIDTH.
OLD SHIPYARD ROAD - F.K.A. MARGINAL ROAD, TOWN LANDING ROAD, CHANNEL ROAD
MAINE STATE HIGHWAY COMMISSION FILE NO. 3-124, SHEETS 21 & 22 OF 26
I-295/STATE HIGHWAY 95
MAINE STATE HIGHWAY COMMISSION FILE NO. 3-124, SHEETS 22 & 23 OF 26
MAINE DEPARTMENT OF TRANSPORTATION FILE NO. 3-310, SHEET 1 OF 23
MAINE DEPARTMENT OF TRANSPORTATION PROJECT WIN 20545.00 (EXIT 17, I-295)

CURVE DATA #4
PI = 109+02.21
D = 15°16'43.9"
Δ = 18°20'19.2" Rt.
R = 375.00'
L = 120.02'
T = 60.53'
E = 4.85'

CURVE DATA #5
PI = 110+34.41
D = 7°09'43.1"
Δ = 10°23'07.8" Rt.
R = 800.00'
L = 145.01'
T = 72.70'
E = 3.30'
EXIT BEARING AT PT STA. 111+06.7 = S42°34'44.9"E

CURVE DATA #3
PI = 107+20.27
D = 0°57'17.7"
Δ = 2°19'08.7" Rt.
R = 6000.00'
L = 242.86'
T = 121.44'
E = 1.23'

NOTE: PRESCRIPTIVE EASEMENT FOR HIGHWAY PURPOSES WITHIN LIMITS OF WROUGHT PORTION (L.O.W.P.)

BRIDGE NO. 5835 WIN 022380.00

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

BRUCE A. VAN NOTE
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE _____

TOWN WAY
BAYVIEW STREET
YARMOUTH CUMBERLAND COUNTY
FEDERAL AID PROJECT NO. 2238000
FEBRUARY 2020
SCALE 1" = 25'
RIGHT-OF-WAY MAP
SHEET 2 OF 3
D.O.T. FILE NO. 3-653

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

TECH	CHECKED
JH	CWK
JH	RMC
JH	RMC

ITEM	EXISTING	CONDITION	PLAN
FINAL RIGHT OF WAY			
AREAS			

SHEET NUMBER
30
OF 30