

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



BANGOR
PENOBSCOT COUNTY COUNTY
PENOBSCOT BRIDGE

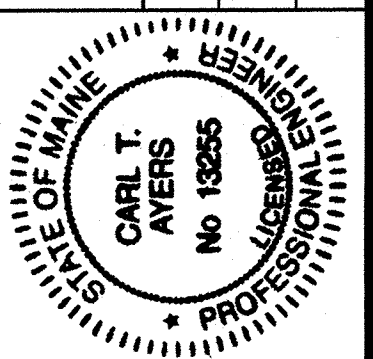
OVER
PENOBSCOT RIVER
BRIDGE # 2038
WIN 25311.10

LIST OF DRAWINGS

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER:	8-3-26
	CHIEF ENGINEER:	8/3/2026



	SIGNATURE	P.E. NUMBER	DATE
	13255	7/29/2026	
PROJ. MANAGER: MICHAEL WRIGHT, P.E.	DESIGNED: MICHAEL WRIGHT, P.E.	CHECKED: MICHAEL WRIGHT, P.E.	DATE
	7/29/2026	7/29/2026	
	DESIGN: MICHAEL WRIGHT, P.E.	REVISIONS 1	
		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, 10th Edition 2024.

DESIGN LOADING

Live Load..... HS - 20 (Existing Components)
Live Load..... HL-93 Modified for Strength-I (Finger Joint)

MATERIALS

Structural Steel:
All Shapes and Plates..... AASHTO M 270M, Grade 36
High Strength Bolts..... ASTM F3125, Grade A325, Type 3 for Weathering Steel, Otherwise Type 1

BASIC DESIGN STRESSES

Structural Steel:
ASTM M 270M, Grade 36..... F y = 36,000 psi
ASTM F3125, Grade A325..... F y = 120,000 psi

PROJECT LOCATION	Penobscot Bridge Bangor, Maine Lat. /Long. 44° 47' 56.4" / 68° 45' 53"
OUTLINE OF WORK	Pier No. 1 Joint Prebuy Abutment No. 2 Joint Prebuy

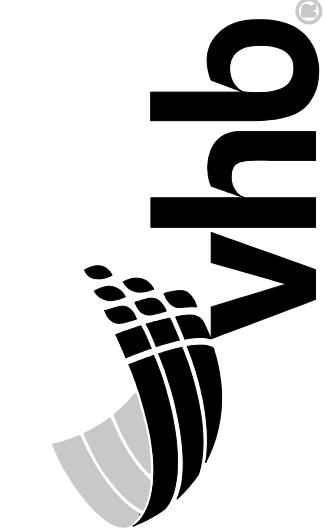
PENOBSCOT BRIDGE OVER PENOBSCOT RIVER PENOBSCOT COUNTY	BANGOR	TITLE SHEET
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SHEET NUMBER
1
OF 8

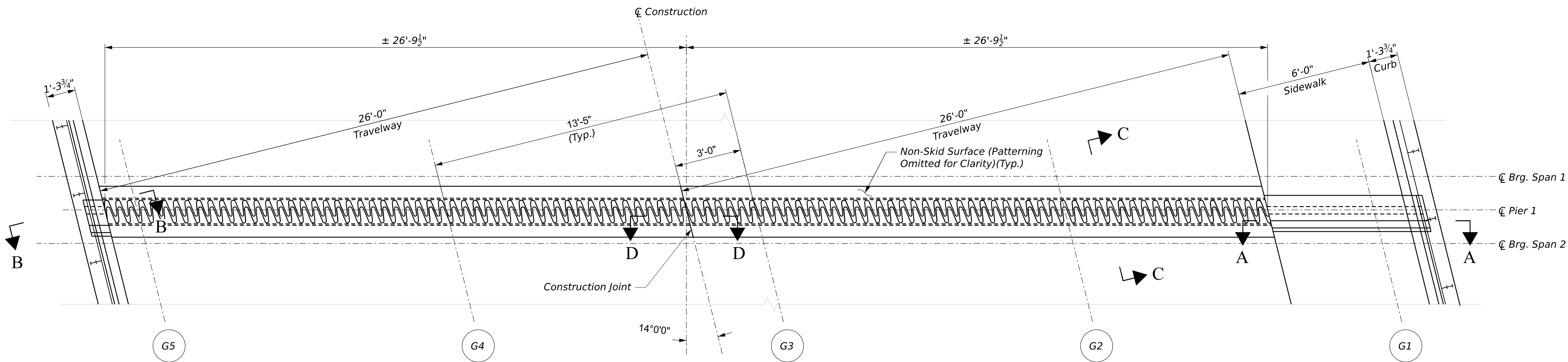
ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
521.23	Expansion Device - Finger Joint (Pier No. 1)	1	EA
521.23	Expansion Device - Finger Joint (Abutment No. 2)	1	EA
521.32	Fabric Trough for Finger Joint (Pier No. 1)	1	EA
521.32	Fabric Trough for Finger Joint (Abutment. No 2)	1	EA

GENERAL CONSTRUCTION NOTES:

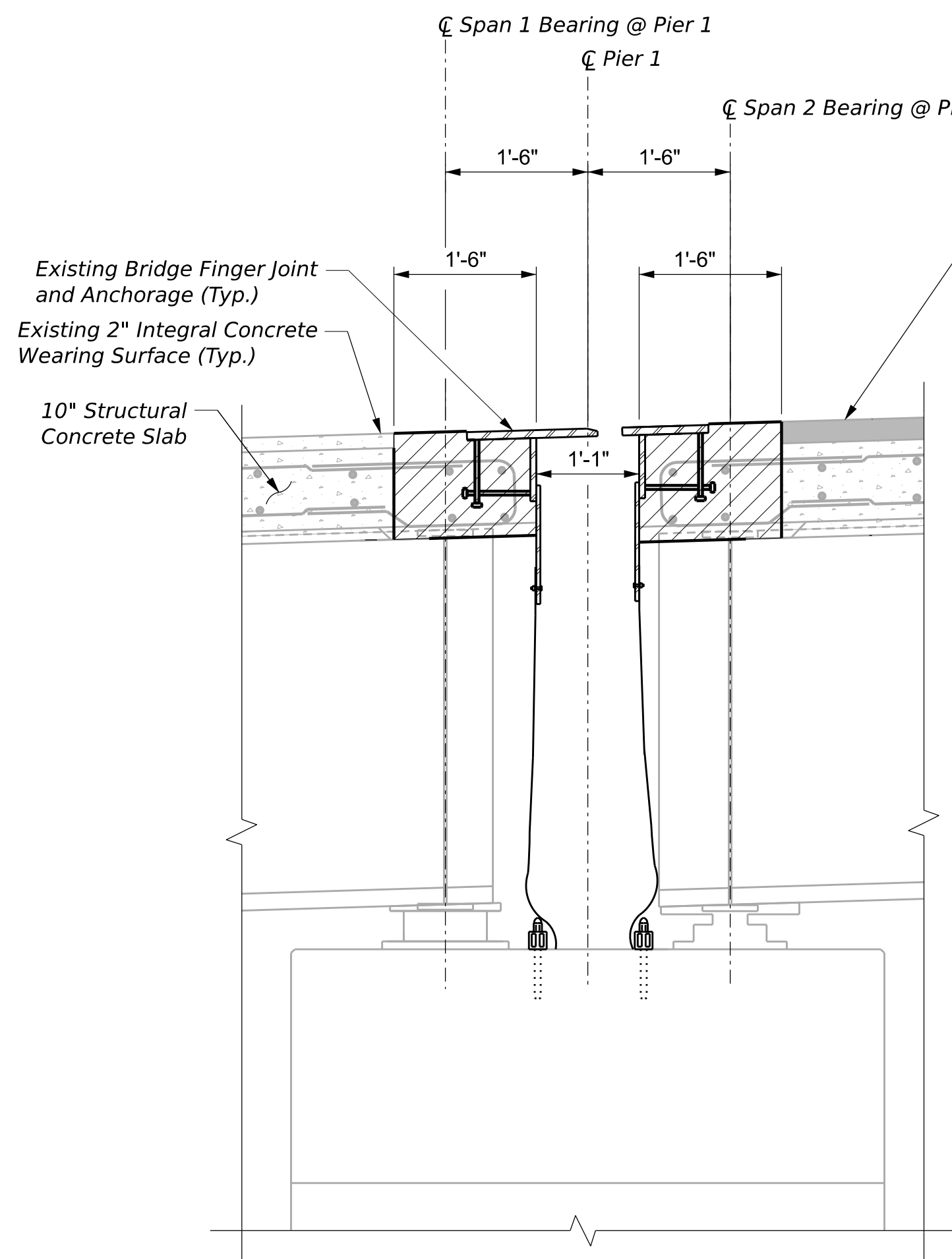
1. Project information referred to below may be accessed at the following MaineDOT web address:
<https://www.maine.gov/dot/doing-business/bid-opportunities>
2. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the 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.
3. All dimensions, angles, and stationing shown are taken from As-Built Plans and Shop Drawings from 1995 and 1996 and are not guaranteed to be correct. All information based on or relating to the existing bridges shall be verified in the field by the Contractor.
4. Refer to Standard Specifications and Standard Details Section 521 for details and information not shown.



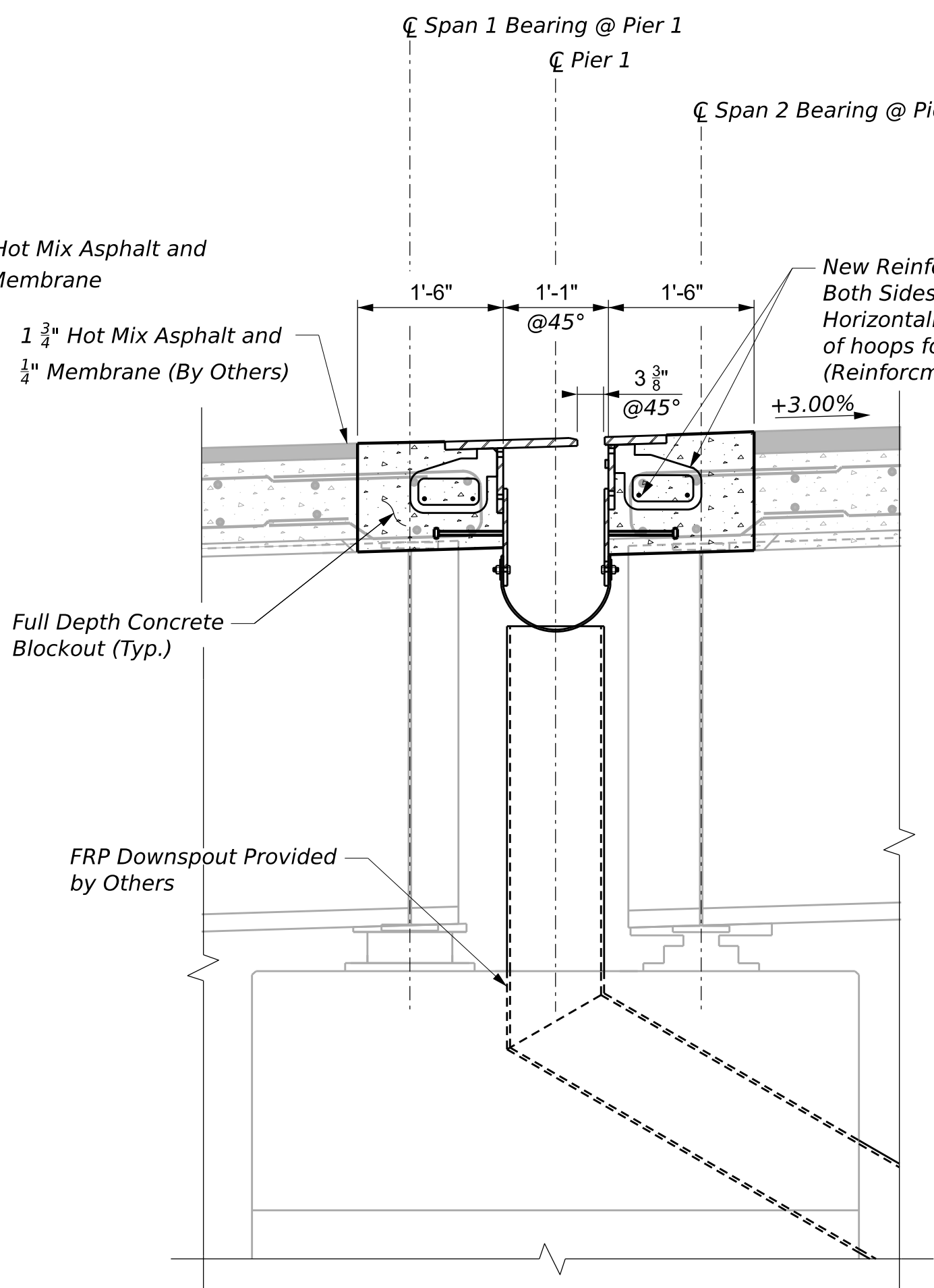
PROJ. MANAGER	MICHAEL WRIGHT, P.E.	BY	DATE
DESIGN-DETAILED	MJC	MJC	7/29/2026
CHECKED-REVIEWED	BJR	CTA	7/29/2026
DESIGN-DETAILED2			
DESIGN-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



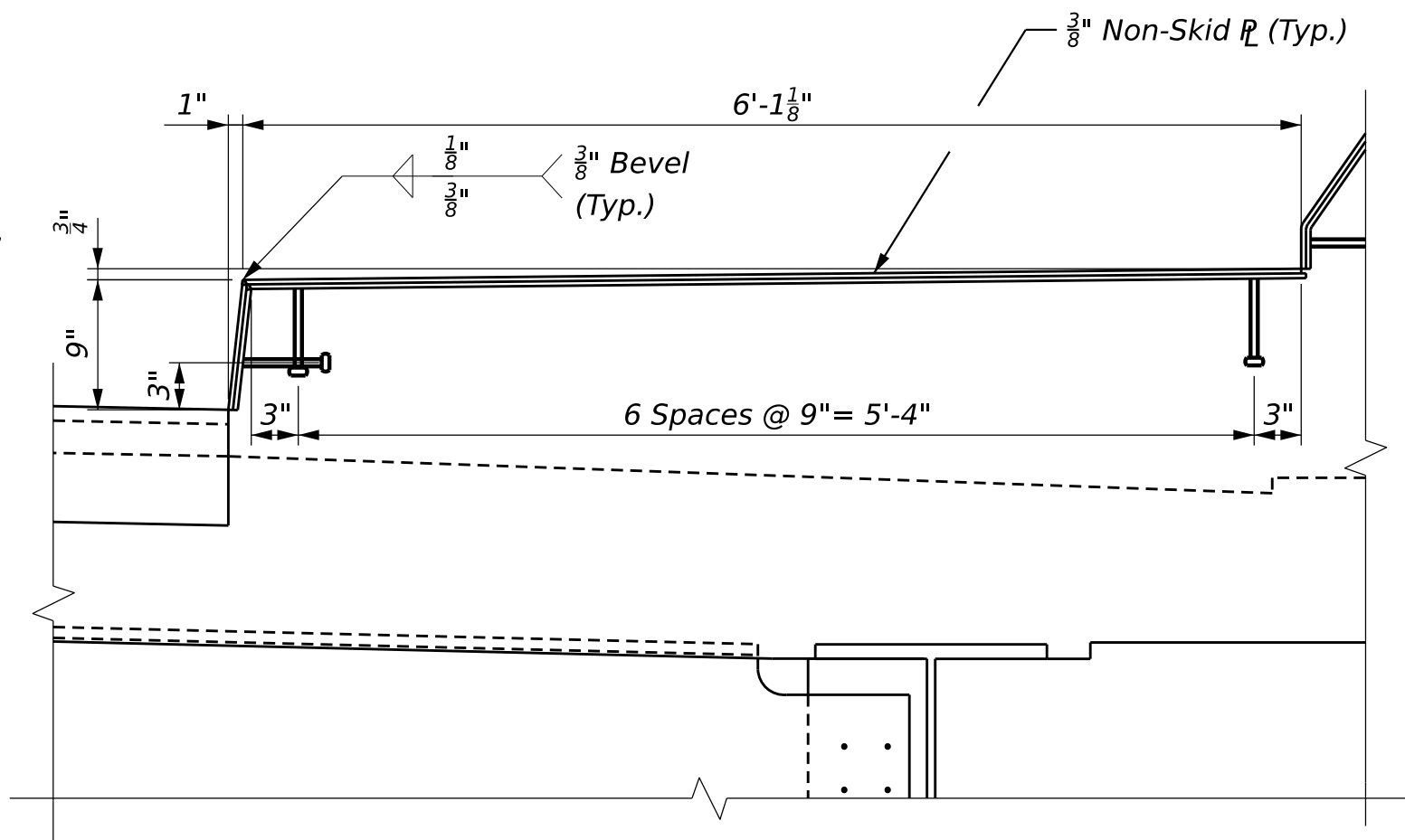
PROPOSED PIER 1 EXPANSION JOINT PLAN VIEW



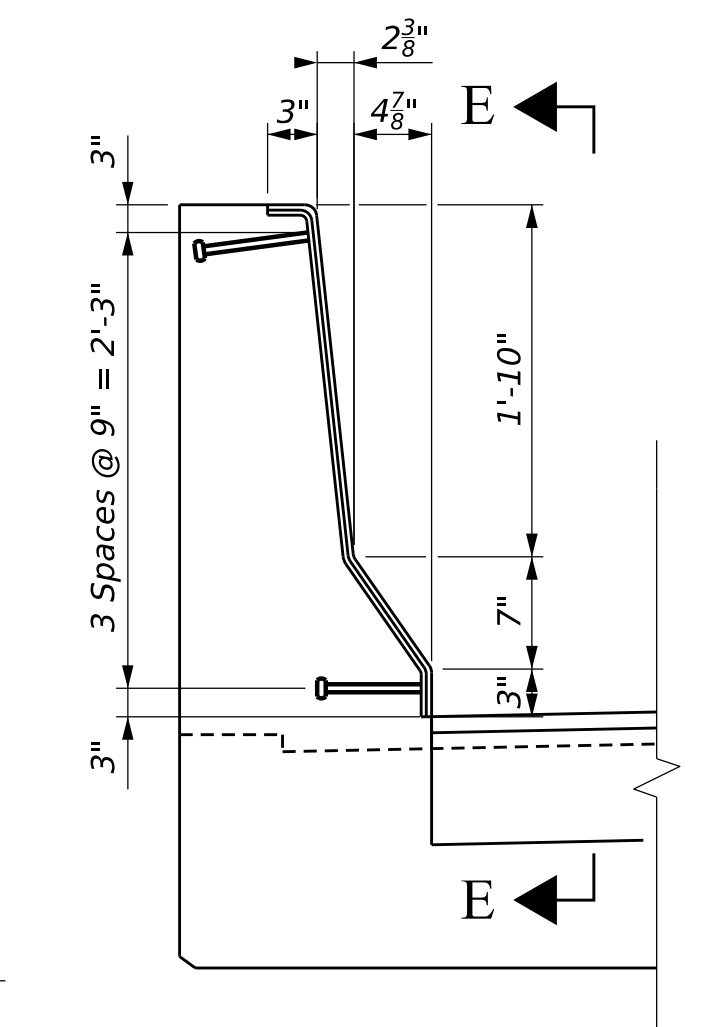
SECTION C-C
EXISTING FINGER JOINT



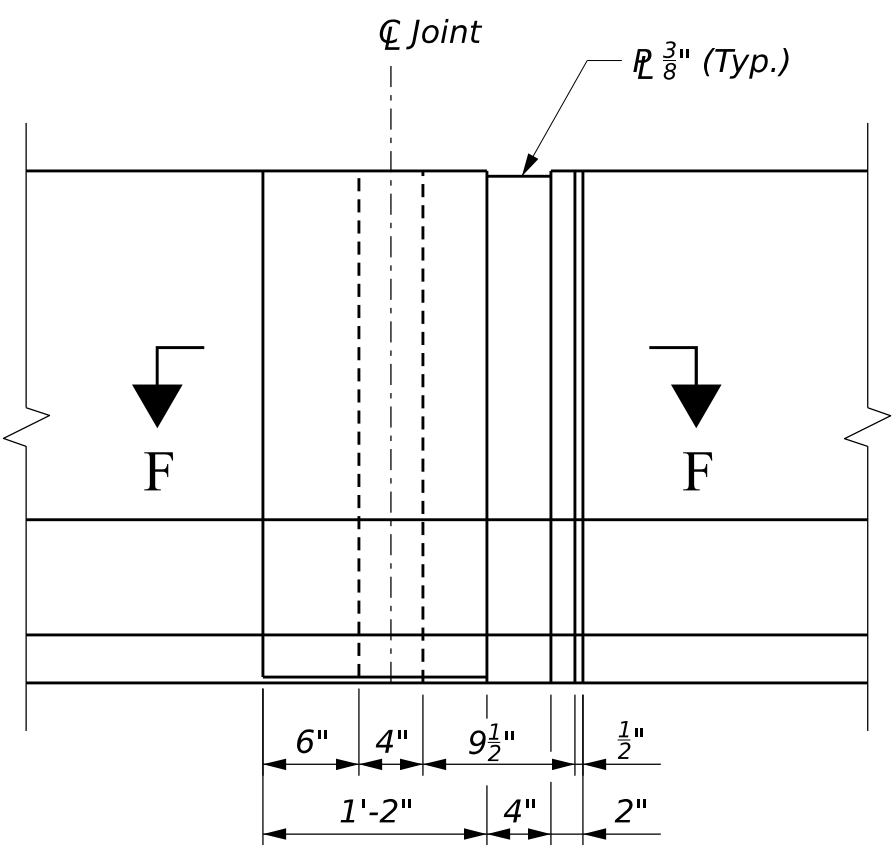
SECTION C-C
PROPOSED FINGER JOINT



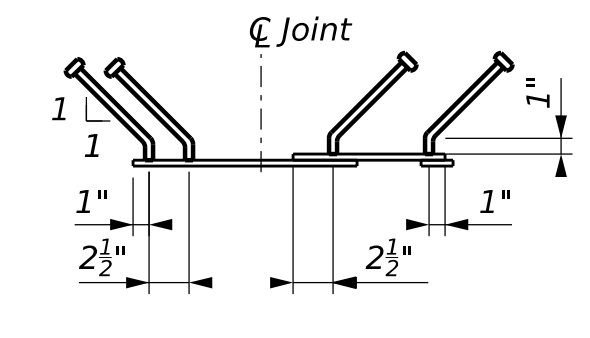
SECTION A-A
BARRIER EXPANSION DAM



SECTION B-B
BARRIER EXPANSION DAM



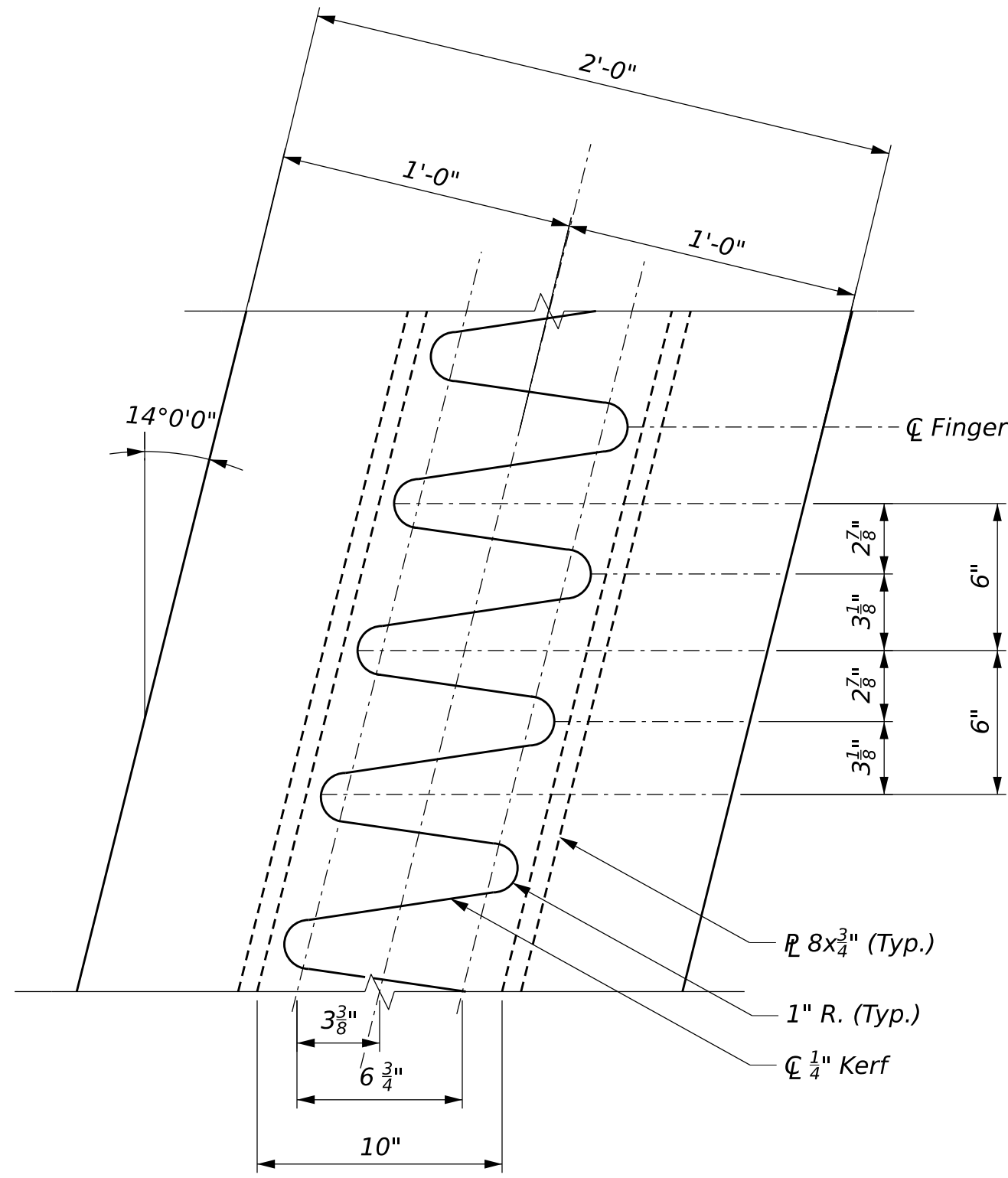
SECTION E-E
BARRIER EXPANSION DAM



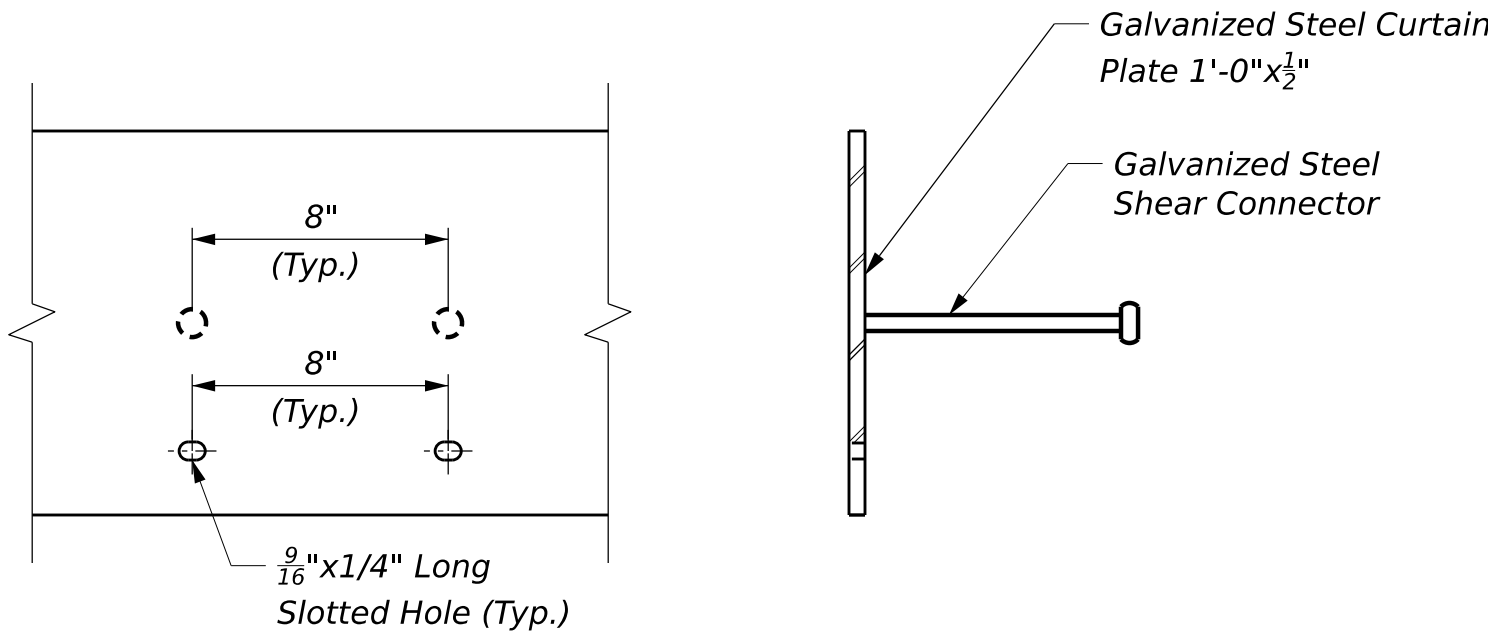
SECTION F-F
(Barrier Shown Sidewalk Similar)



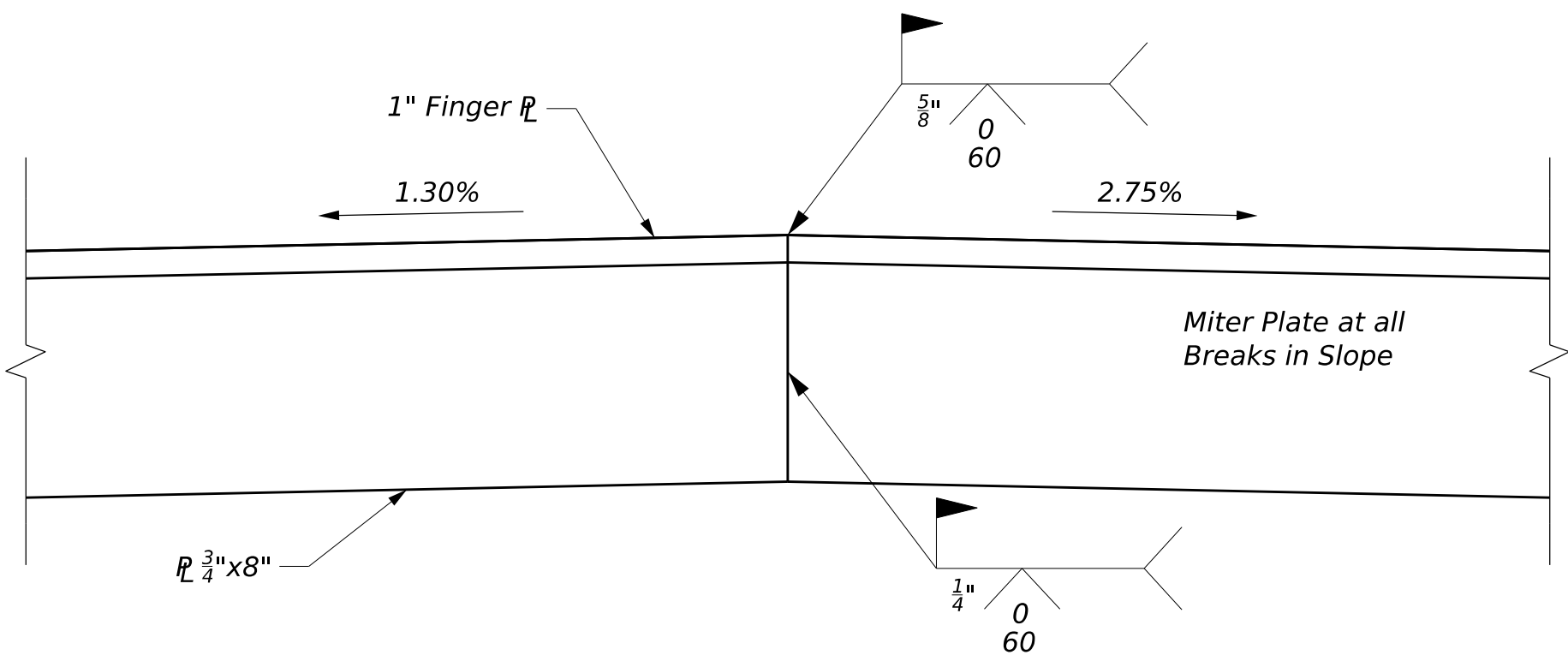
PROJ. MANAGER	DATE	BY
MICHAEL WRIGHT, P.E.	7/29/2026	MIC
CHECKED-REVIEWED	7/29/2026	CTA
DESIGNED-DETAILED		
DESIGNED-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		



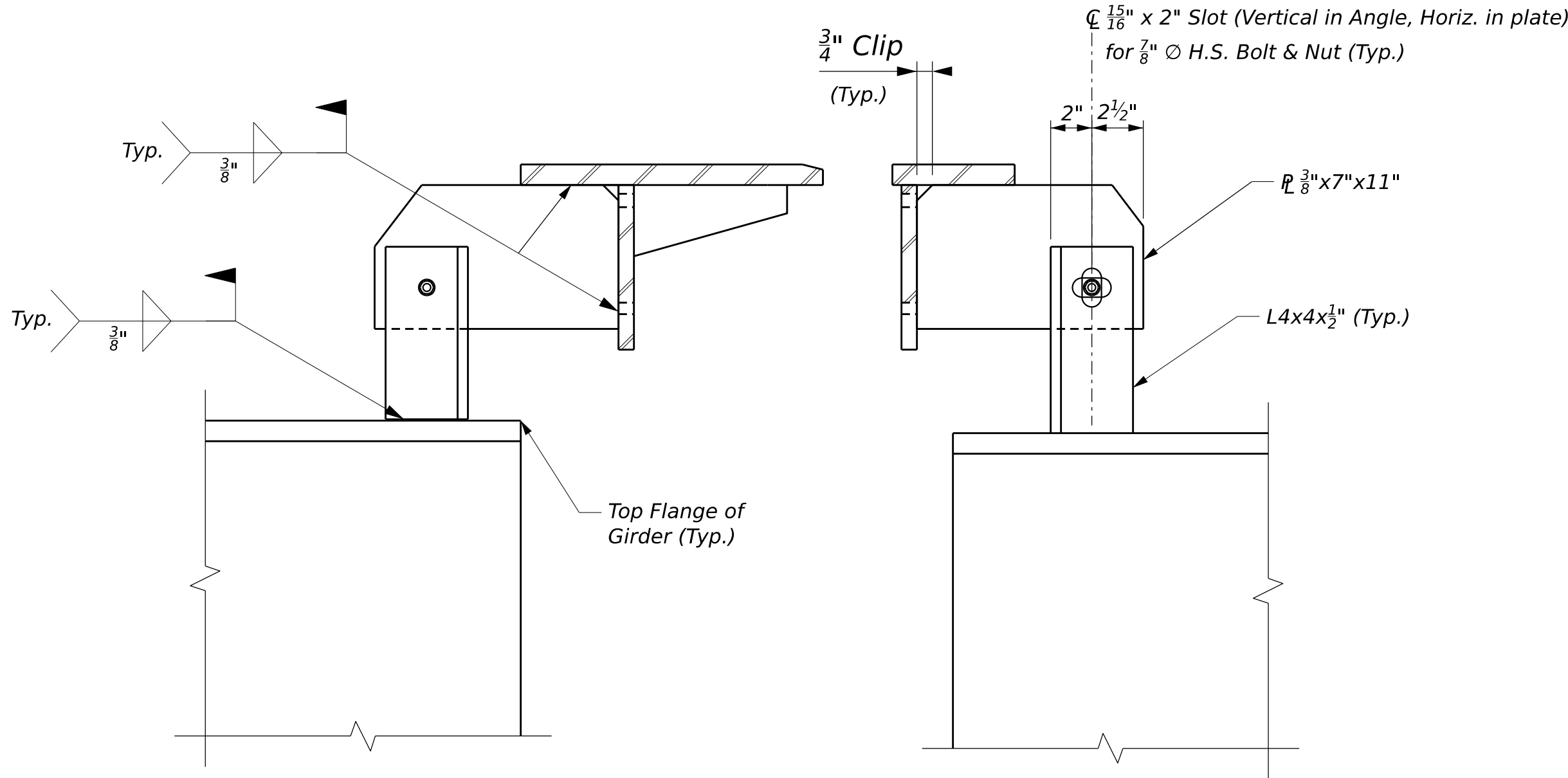
FINGER CUTTING DETAIL ~ PIER NO. 1



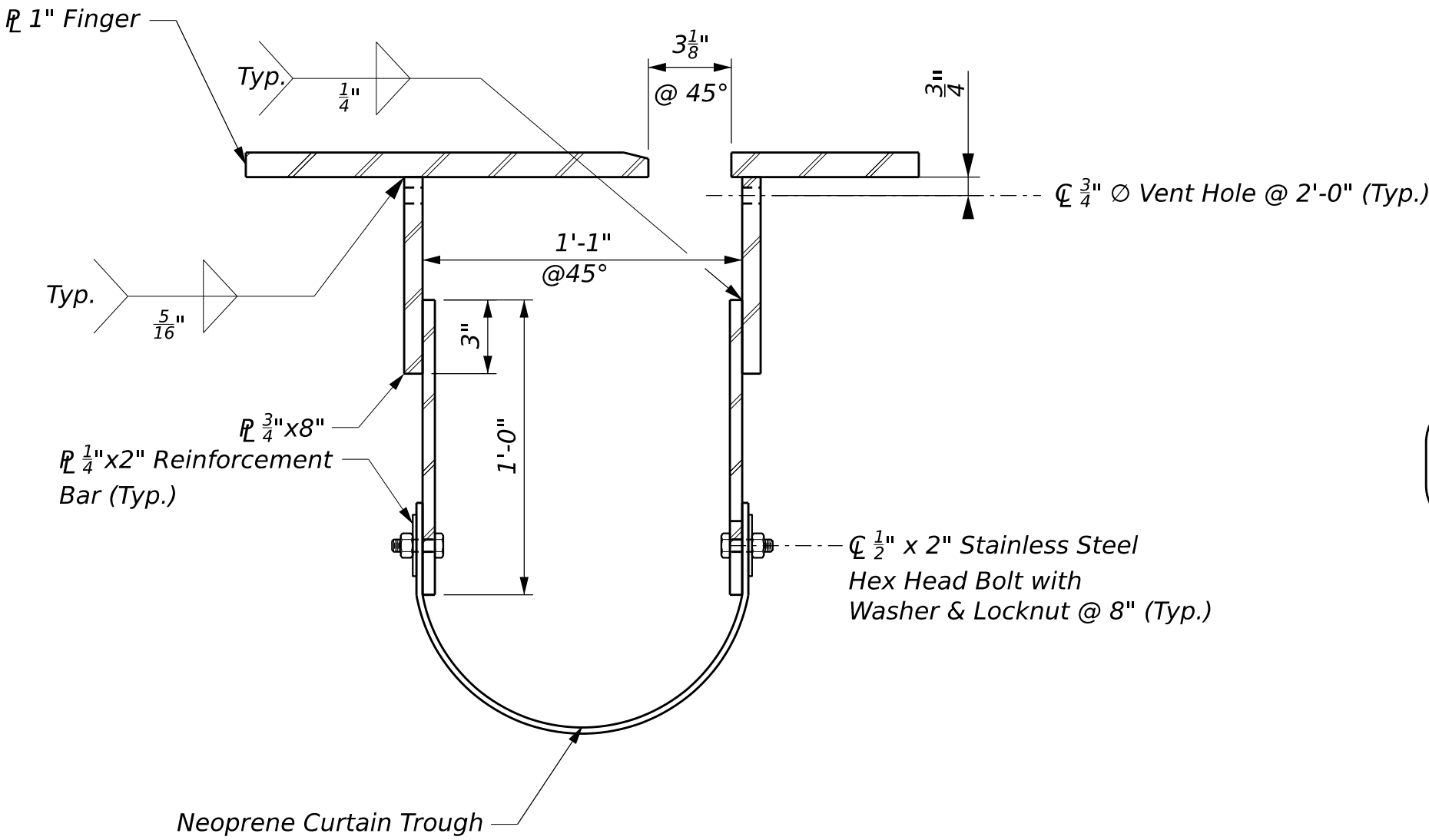
CURTAIN PLATE DETAIL



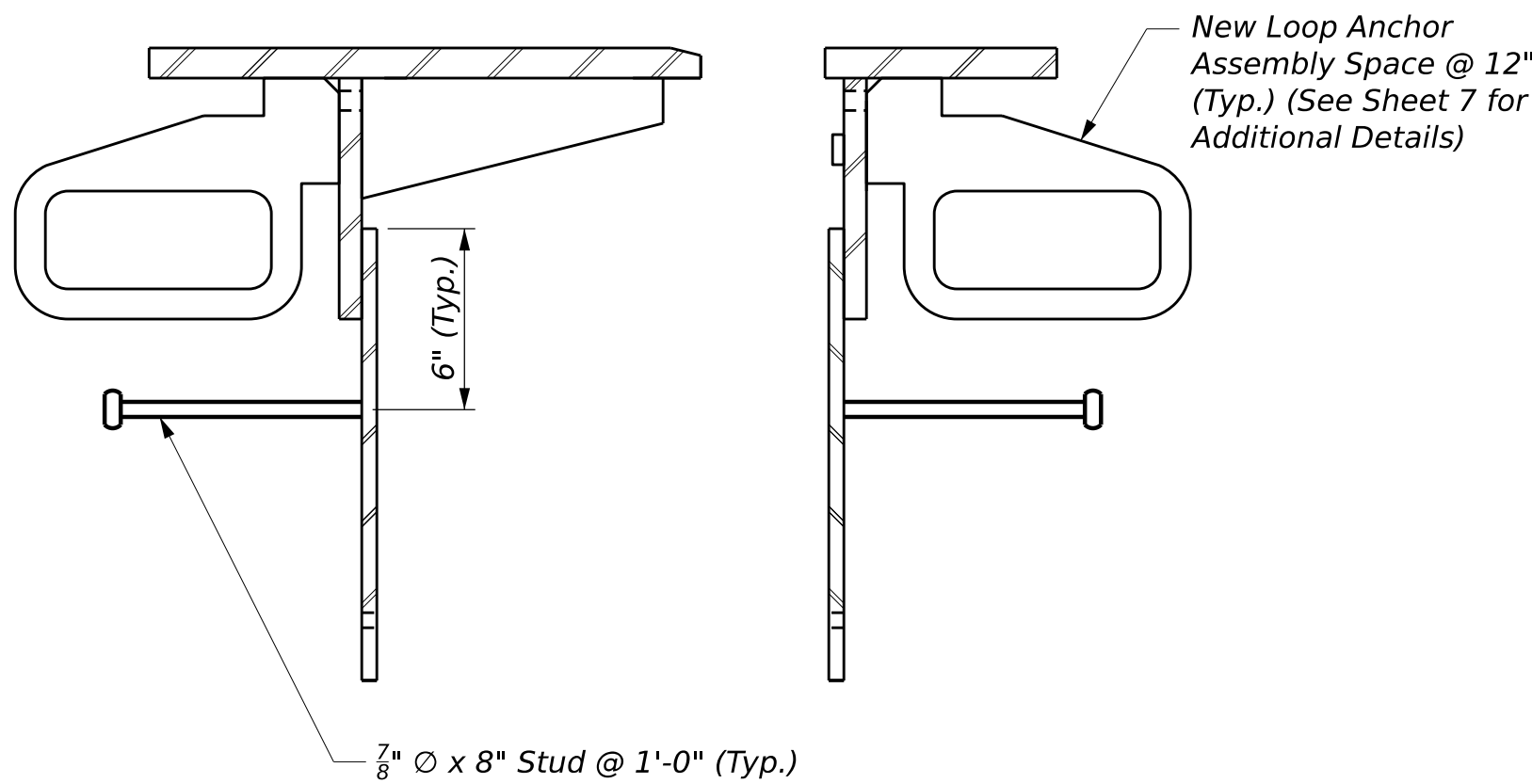
SECTION D-D
CONSTRUCTION JOINT DETAIL
(Looking Upstation Normal to Joint)



FINGER JOINT ADJUSTMENT DEVICE ~ PIER NO. 1

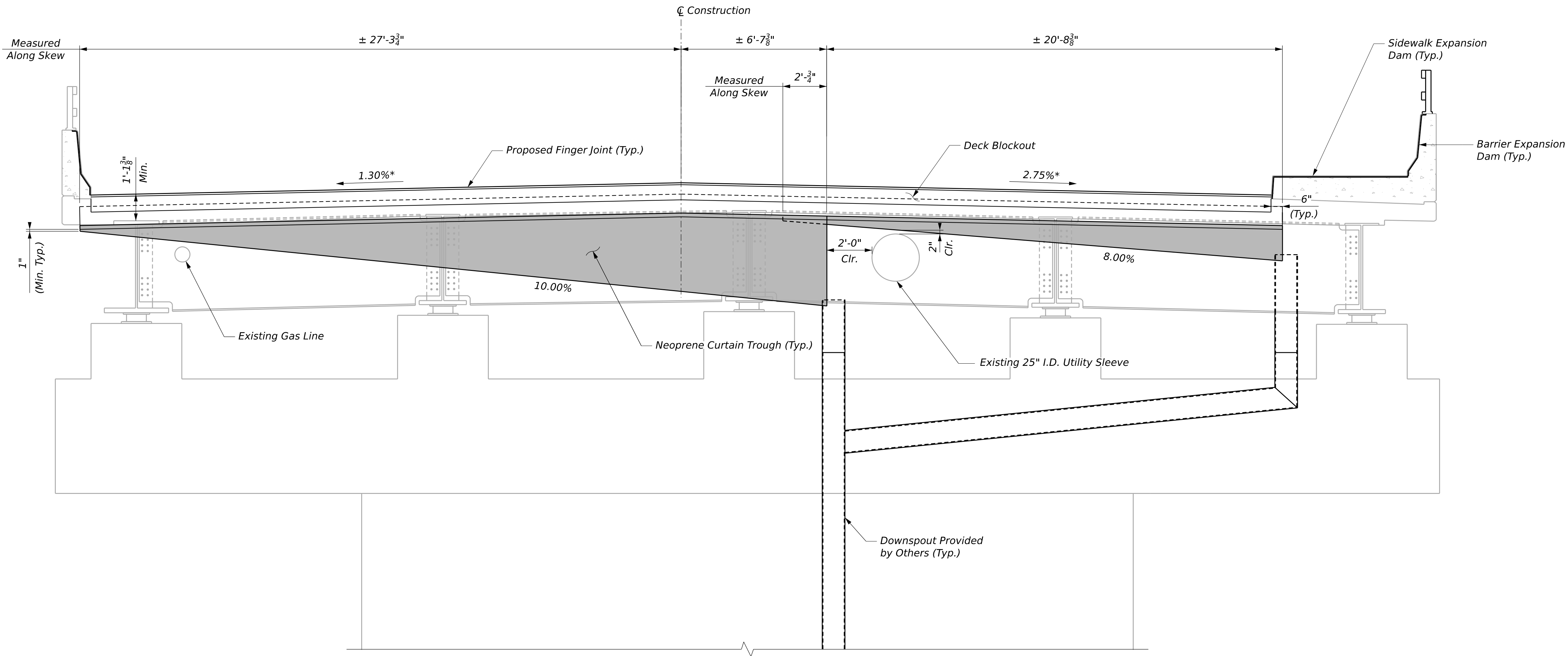


TYPICAL FINGER JOINT SECTION ~ PIER NO. 1



FINGER JOINT ANCHOR DETAIL ~ PIER NO. 1

PENOBSCOT BRIDGE OVER PENOBSCOT RIVER BANGOR PENOBSCOT COUNTY				PROJ. MANAGER MICHAEL WRIGHT, P.E.		DATE	
PIER NO. 1 FINGER JOINT DETAILS				DESIGN-DETAILED		BY	
				M/JC		7/29/2026	
				CHECKED-REVIEWED		M/JC	
				BJR		CTA	
				DESIGN-DETAILED02			
				DESIGN-DETAILED03			
				REVISIONS 1			
				REVISIONS 2			
				REVISIONS 3			
				REVISIONS 4			
				FIELD CHANGES			
SHEET NUMBER							
4							
OF 8							
				STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2531110	
						WIN 025311.10	
				BRIDGE #2038		BRIDGE PLANS	



SUPERSTRUCTURE TRANSVERSE SECTION
(Span 1 Deck End Shown, Span 2 Similar)
(Looking Upstation)
*Joint Grade Along Skew

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2531110

WIN
025311.10

BRIDGE #2038

BRIDGE PLANS

PROJ. MANAGER	MICHAEL WRIGHT, P.E.	BY	DATE
DESIGN-DETAILED	MJC	MJC	7/29/2026
CHECKED-REVIEWED	BJR	CTA	7/29/2026
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PENOBSCOT BRIDGE
OVER PENOBSCOT RIVER
BANGOR

PENOBSCOT COUNTY

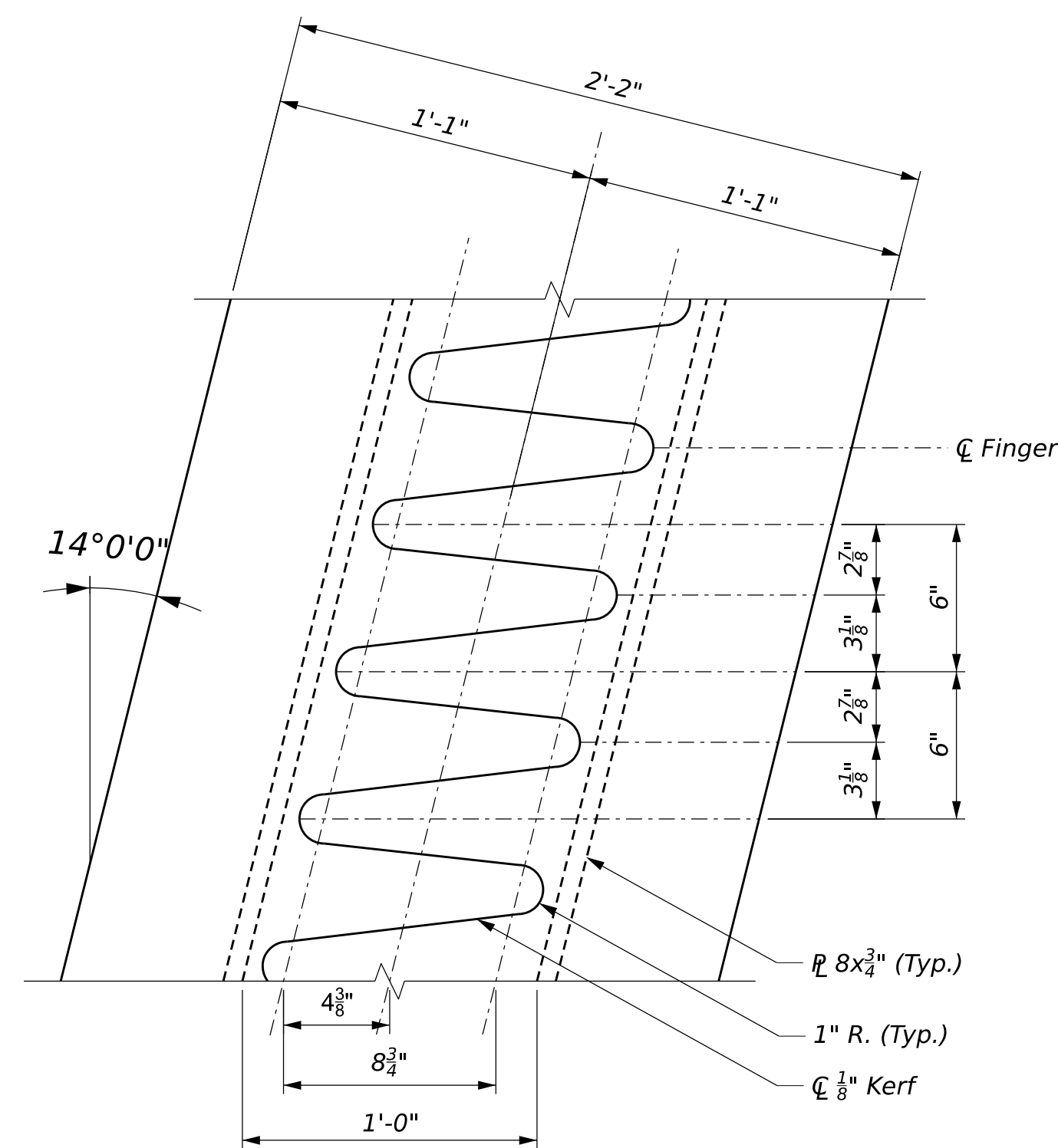
PIER NO. 1

TYPICAL SECTION

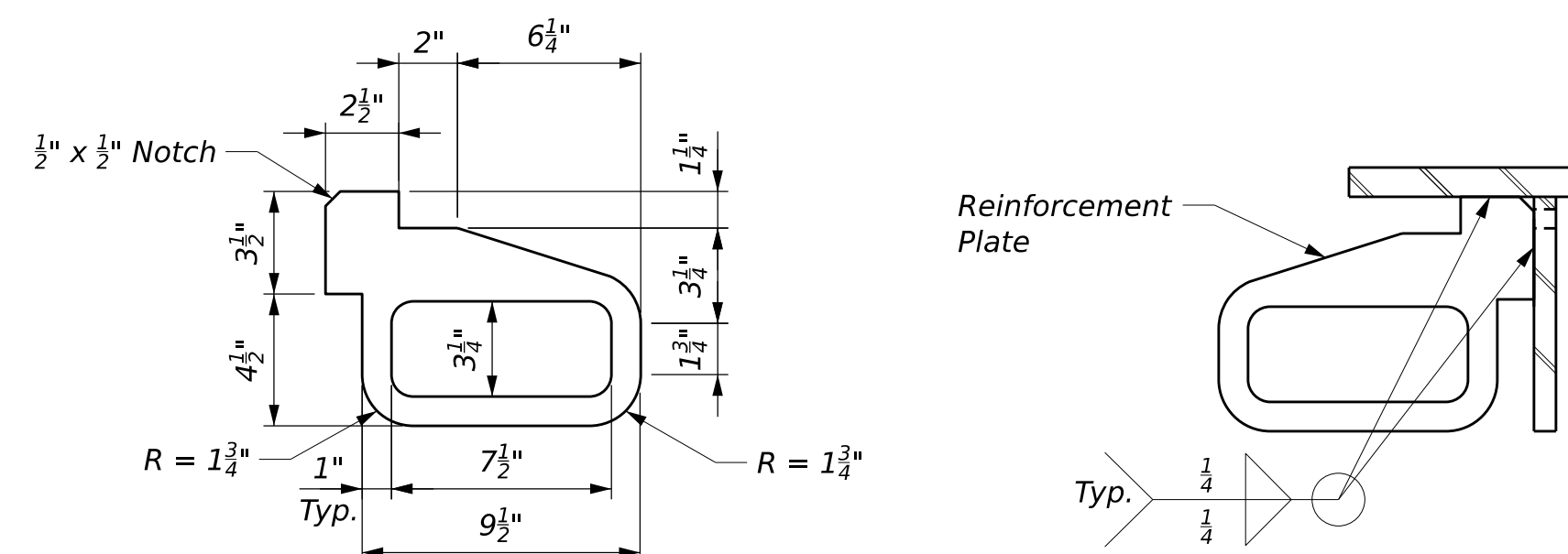
SHEET NUMBER

5

OF 8

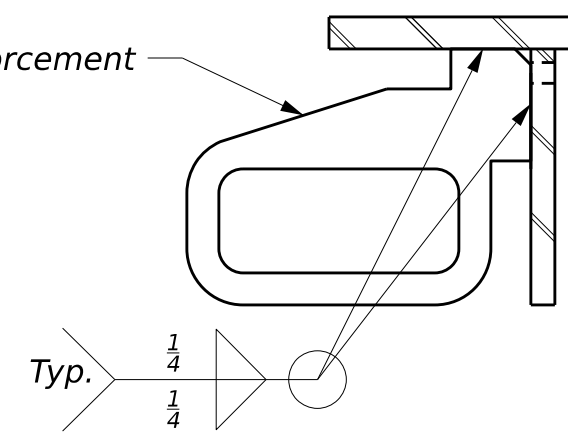
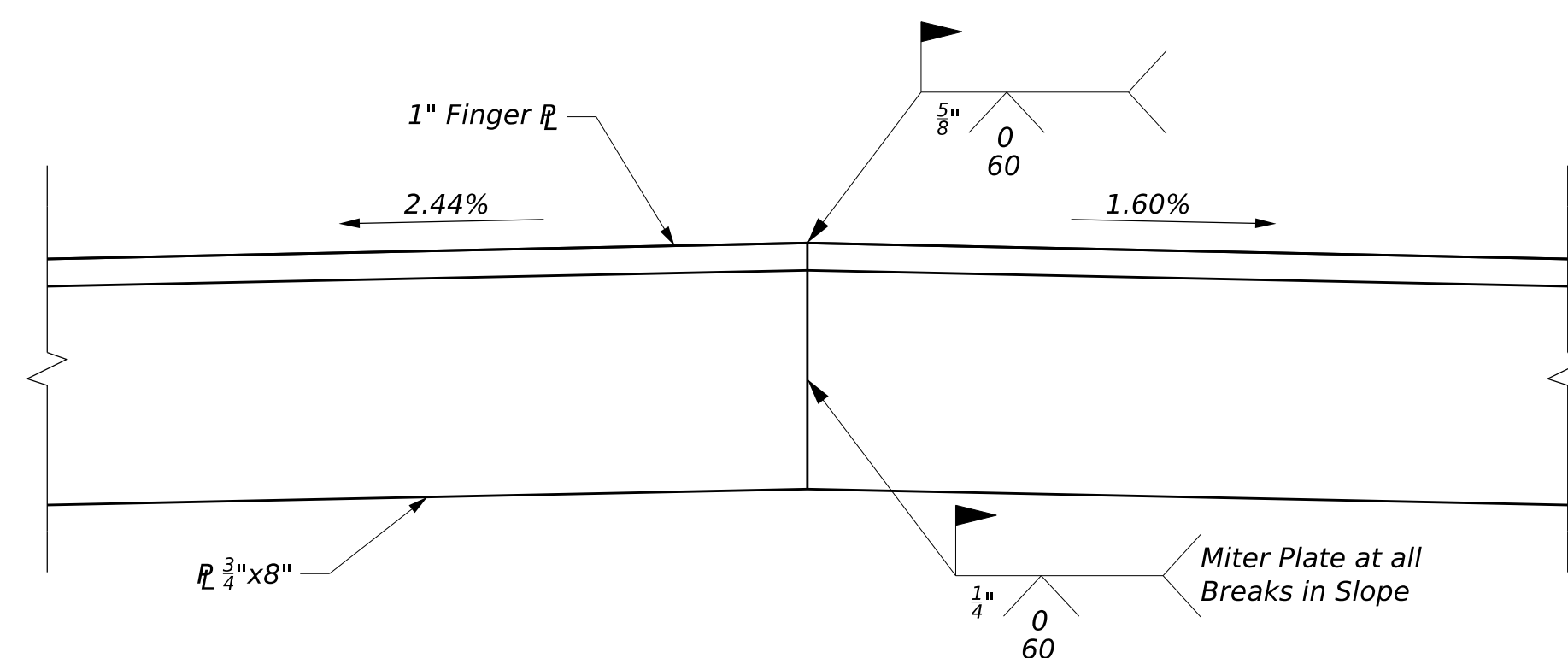


FINGER CUTTING DETAIL ~ ABUT. NO. 2



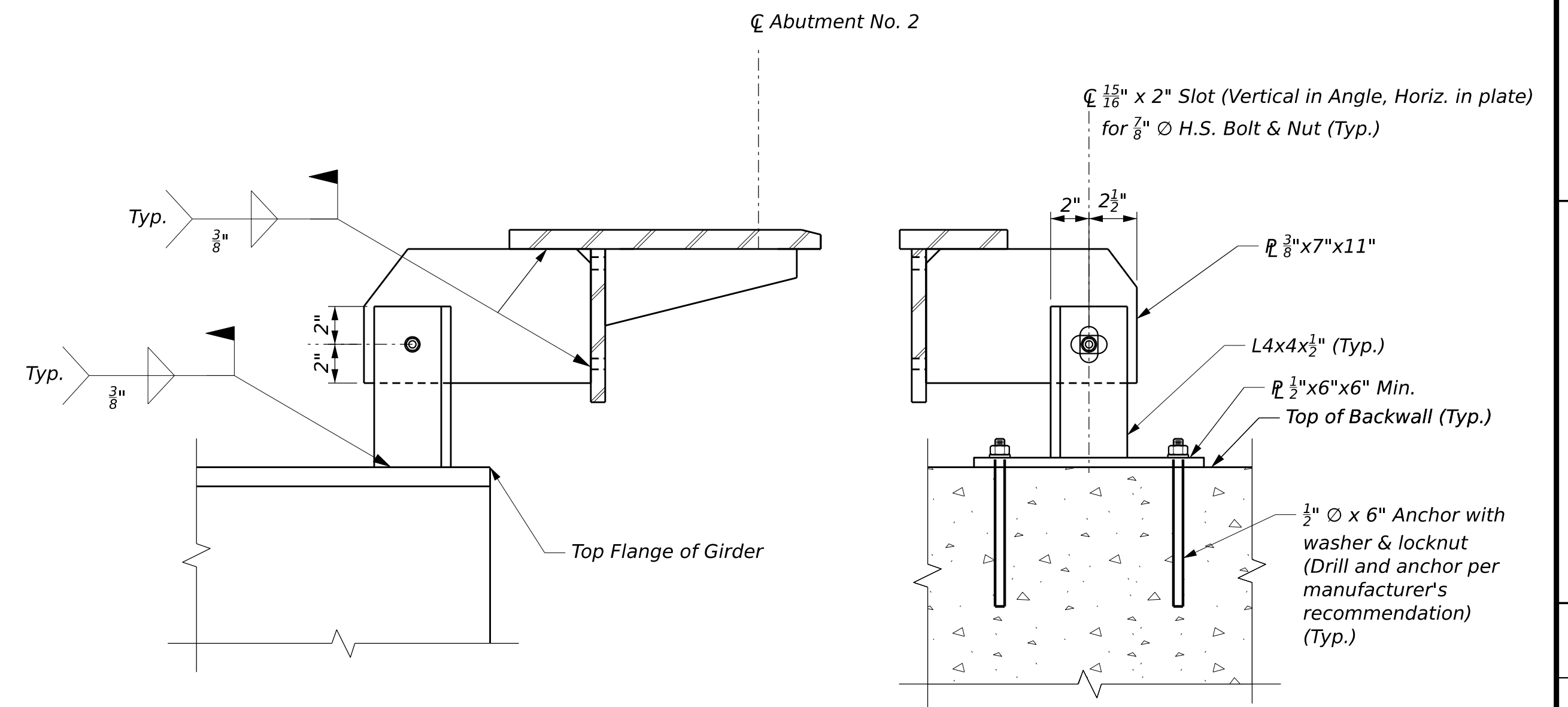
LOOP ANCHOR DETAIL

NOTE: Interior Radius = $\frac{3}{4}$ ", Typical for
Reinforcement Assemblies $\frac{5}{8}$ " Plate

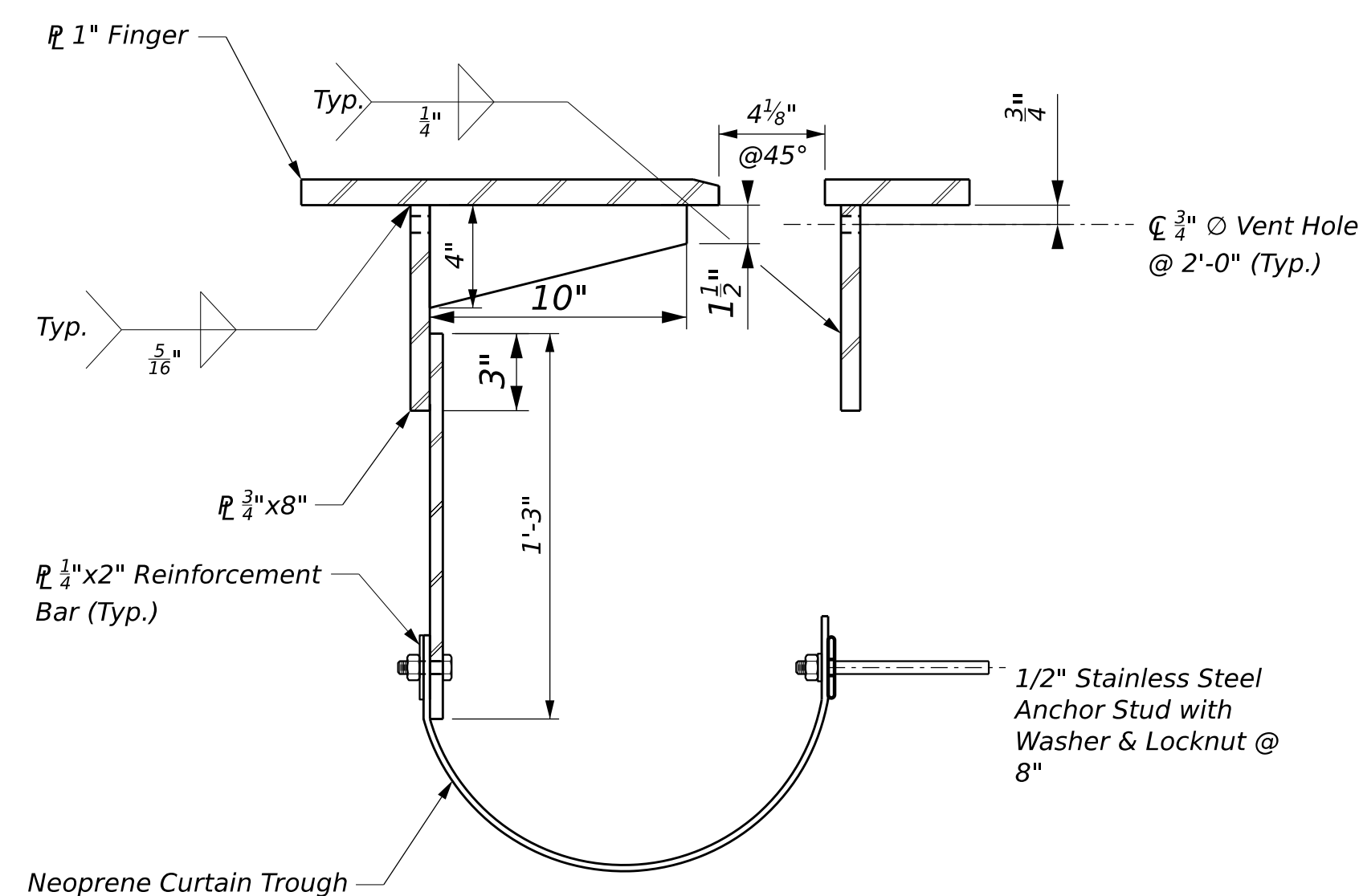
WELDING LOCATION

SECTION D-D
CONSTRUCTION JOINT DETAIL

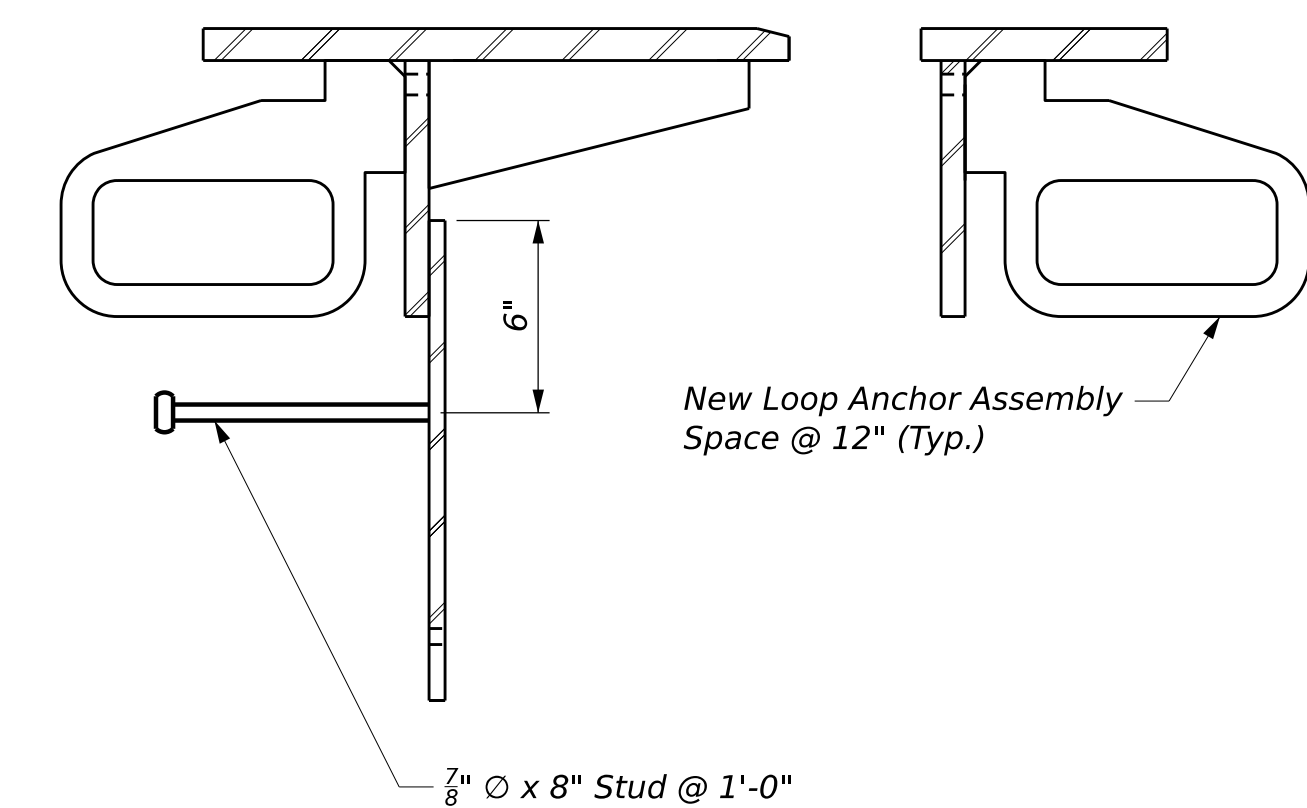
(Looking Upstation Normal to Joint)



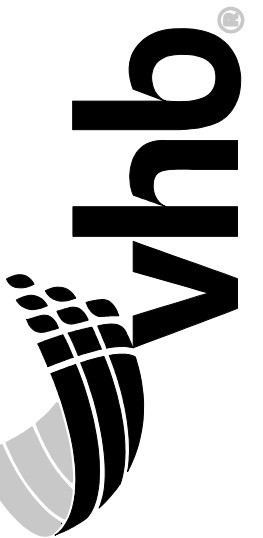
FINGER JOINT ADJUSTMENT DEVICE ~ ABUT. NO. 2



TYPICAL FINGER JOINT SECTION ~ ABUT. NO. 2



FINGER JOINT ANCHOR DETAIL ~ ABUT. NO. 2



DESIGN-DETAILED	MJC	MJC	7/29/2026
CHECKED-REVIEWED	EUR	MJC	7/29/2026
DESIGN-DETAILED2		CTA	
DESIGN-DETAILED3			
REVISIONS 1			
REVISIONS 2			
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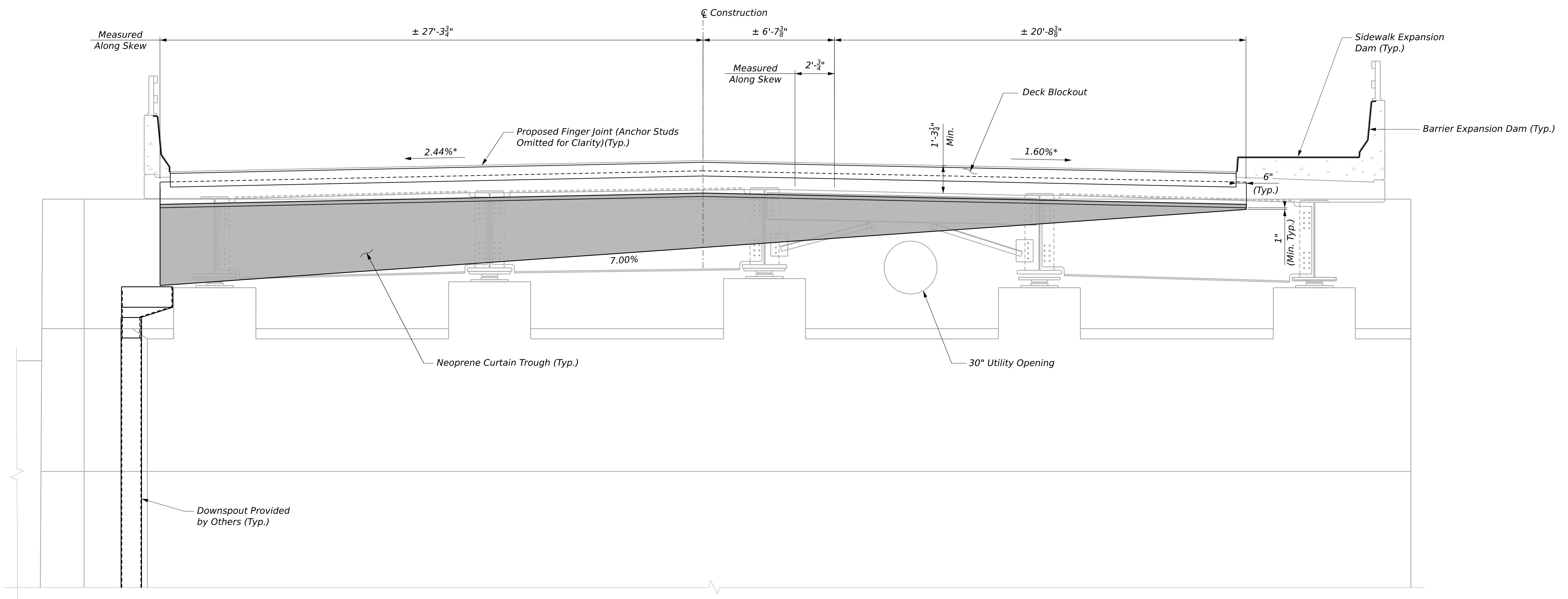
PENOBSCOT BRIDGE
OVER PENOBSCOT RIVER
PENOBSCOT COUNTY
BANGOR

ABUTMENT NO. 2 FINGER
JOINT DETAILS

SHEET NUMBER

7

DF 8



SUPERSTRUCTURE TRANSVERSE SECTION (SPAN 6 DECK END)

(Looking Upstation)
*Joint Grade Along Skew