

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Seventh Edition 2014 with 2015 & 2016 Interim Revisions.

DESIGN LOADING

Live Load ..... Legal Loads

TRAFFIC DATA

Current (2015) AADT ..... 8970  
Future (2035) AADT ..... 10,550  
DHV - % of AADT ..... 11  
Design Hour Volume ..... 1161  
Heavy Trucks (% of AADT) ..... 5  
Heavy Trucks (% of DHV) ..... 5  
Directional Distribution (% of DHV) ..... 60  
18 kip Equivalent P 2.0 ..... 233  
18 kip Equivalent P 2.5 ..... 222  
Design Speed (mph) ..... 25

MATERIALS

Concrete:  
Transition Barriers ..... Class "LP"  
Precast Deck Panels ..... Class "P"  
Precast Panel Joints ..... UHPC  
All Other ..... Class "A"  
Reinforcing Steel ..... ASTM A 615/A 615M, Grade 60  
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 = 4000 psi  
Class "LP" ..... f 'c = 5000 psi  
Class "P" ..... f 'c = 6000 psi  
UHPC ..... f 'c = 14,500 psi  
Reinforcing Steel ..... f y = 60,000 psi  
Structural Steel:  
ASTM A 709, Grade 36 (Existing) ..... F y = 36,000 psi  
ASTM A 709, Grade 50 ..... F y = 50,000 psi  
ASTM A 325 ..... F μ = 120,000 psi

BATH  
SAGADAHOC COUNTY  
CENTRE STREET  
CONNECTION  
OVER  
U.S. ROUTE 1  
CONGRESS AVENUE  
PROJECT NO. STP-1872(500)  
PROJECT LENGTH 0.115 mi.  
BRIDGE NO. 6142  
SIDEWALK CONSTRUCTION  
PROJECT NO. 18725.10  
PROJECT LENGTH 0.155 mi.

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UTILITIES

Central Maine Power Company  
Fairpoint Communications  
Comcast  
Maine Fiber

MAINTENANCE OF TRAFFIC

Maintain one 11'-0" wide lane of northbound traffic on the bridge, with southbound traffic detoured during construction.

PROJECT LOCATION	In Bath, at the crossing of Congress Avenue over U. S. Route 1, 400 feet east of the West Bath town line on Route 1 and 450 feet north of State Road on Congress Avenue. Lat./Long. 43°54'26.1" N 69°49'58.8" W
PROGRAM AREA	Highway Bridges - Traditional
OUTLINE OF WORK	Bridge Deck Replacement and Sidewalk Work

STP-1872(500) 18725.00 & 18725.10

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE

COMMISSIONER

DEPUTY CHIEF ENGINEER

11/29/17

11/29/17

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

18725.00 & 18725.10

11/29/17

PROJECT INFORMATION

PROGRAM

BRIDGE PROGRAM

PROJECT MANAGER

JOEL KITTREDGE

DESIGNER

DEVAN EATON

CONSULTANT

N/A

PROJECT RESIDENT

CONTRACTOR

PROJECT COMPLETION DATE

BATH  
CENTRE STREET CONNECTION

TITLE SHEET

SHEET NUMBER

1

OF 53

[illegible]

2  OF 53	SHEET NUMBER		CENTRE STREET CONNECTION U.S. ROUTE 1				PROJ. MANAGER	J. Kittredge	BY	DATE	STATE OF MAINE	
	BATH  SAGADAHOC COUNTY		DESIGN-DETAILED		D. Edon	WSP	Nov. 2017	SIGNATURE		DEPARTMENT OF TRANSPORTATION		
			DESIGN-DETAILED						P.E. NUMBER	STP-1872(500)		
			DESIGNS-DETAILED									
			REVISIONS 1									
ESTIMATED QUANTITIES		REVISIONS 2						DATE		BRIDGE NO. 6142		
		REVISIONS 3								WIN	18725.00 & 18725.10	
		REVISIONS 4								BRIDGE PLANS		
		FIELD CHANGES										

GENERAL CONSTRUCTION NOTES

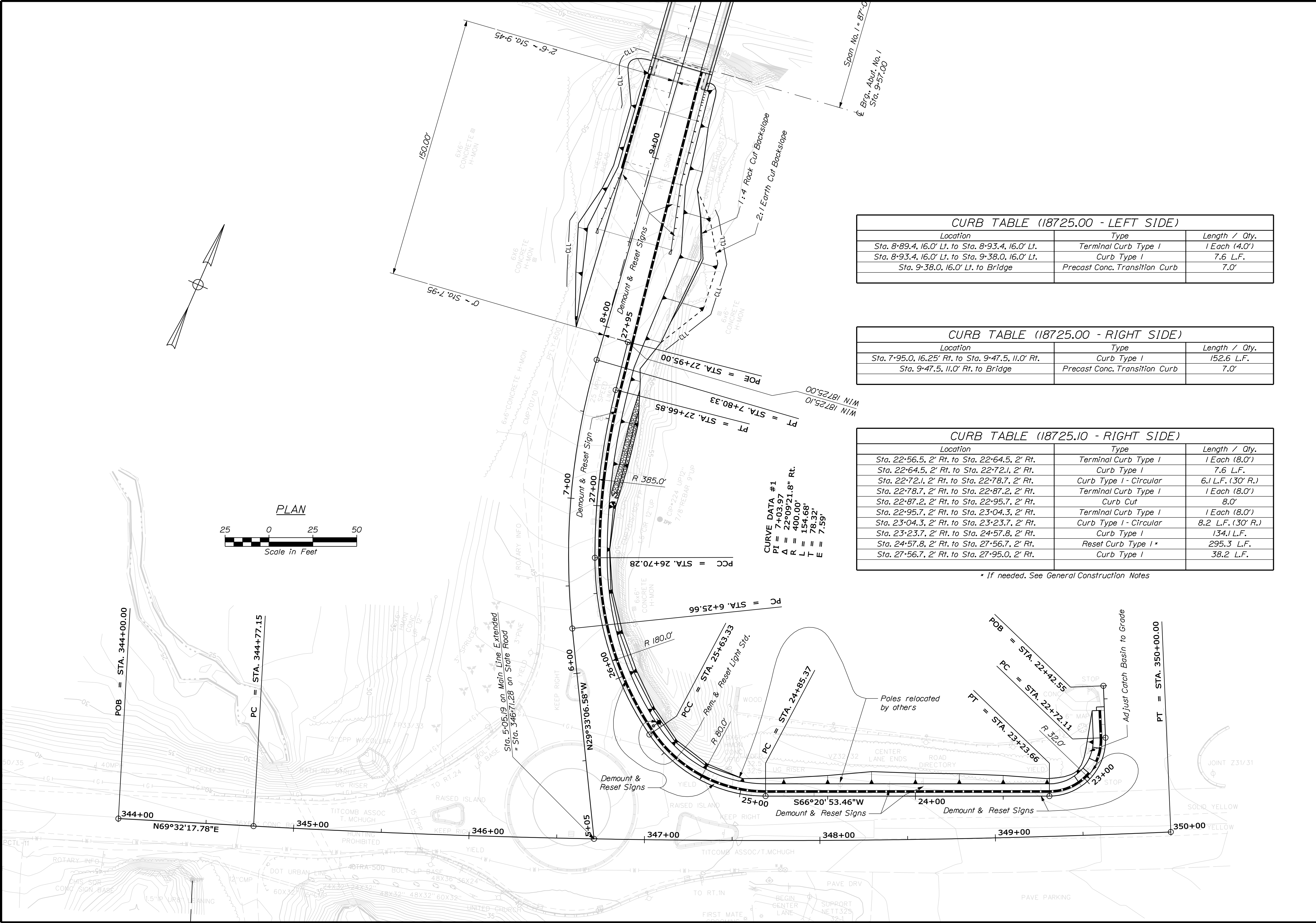
1. For easements, construction limits and right of way lines, refer to Right of Way Map.
2. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract Items.
3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
4. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
5. 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.
6. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
7. 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.
8. An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
9. 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.
10. Protective Coating for Concrete Surfaces shall be applied to the following areas:
- All exposed surfaces of concrete curbs and sidewalks  
Outside face of wingwalls down to the top of the corbel  
Superstructure fascias down to the drip notch  
All exposed surfaces of Concrete Transition Barriers
11. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>.
12. 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.
13. 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.
14. The Contractor shall submit a Bridge Demolition 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.
15. Resetting of the existing granite curb from Sta. 24+58 ± to Sta. 26+25 ± will not be required if the Resident determines that the condition and geometry of the curb is suitable to remain in place.
16. Rock may be encountered in the backslope excavation from Sta. 8+00 ± to Sta. 8+90 ±. The backslope shall be constructed in accordance with the cross sections depending on the site conditions found.
17. Item No. 606.365, Guardrail, Remove, Modify and Reset, Type 3b to 3c, from Sta. 15+20 ± Rt. to Sta. 16+80 ± Rt. will include the addition of extra posts and other incidentals necessary to comply with the Standard Specifications and the Standard Details.
18. The 2017 Load Rating assumes W 36x135 and W 36x194 rolled beams and cover plates as A 36 structural steel per the note on the 1965 Plans.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION  STP-1872(500)  WIN BRIDGE NO. 6142 18725.00 & 18725.10 BRIDGE PLANS	CENTRE STREET CONNECTION U.S. ROUTE 1 BATH SAGADAHOC COUNTY		PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN2-DETAILED2 DESIGN3-DETAILED3 REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	J. Kittridge D. Eaton WSP	BY D. Damren WSP	DATE Oct. 2017 Nov. 2017	SIGNATURE  P.E. NUMBER  DATE
	GENERAL CONSTRUCTION NOTES						
	SHEET NUMBER						
	3						





CENTRE STREET CONNECTION  
U.S. ROUTE 1  
SAGADAHOC COUNTY

BATH

SHEET NUMBER  
  
4  
OF 53

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

STP-1872(500)

BRIDGE NO. 6142 18725.00 & 18725.10 WIN  
BRIDGE PLANS

DATE  
Oct 2017  
Nov 2017

BY  
D. Damren  
WSP

J. Kittridge  
D. Eaton  
WSP

DESIGN-DETAILED  
CHECKED-REVIEWED  
DESIGN-DETAILED

DESIGN-DETAILED  
DESIGN-DETAILED  
DESIGN-DETAILED

REVISIONS 1  
REVISIONS 2  
REVISIONS 3  
REVISIONS 4

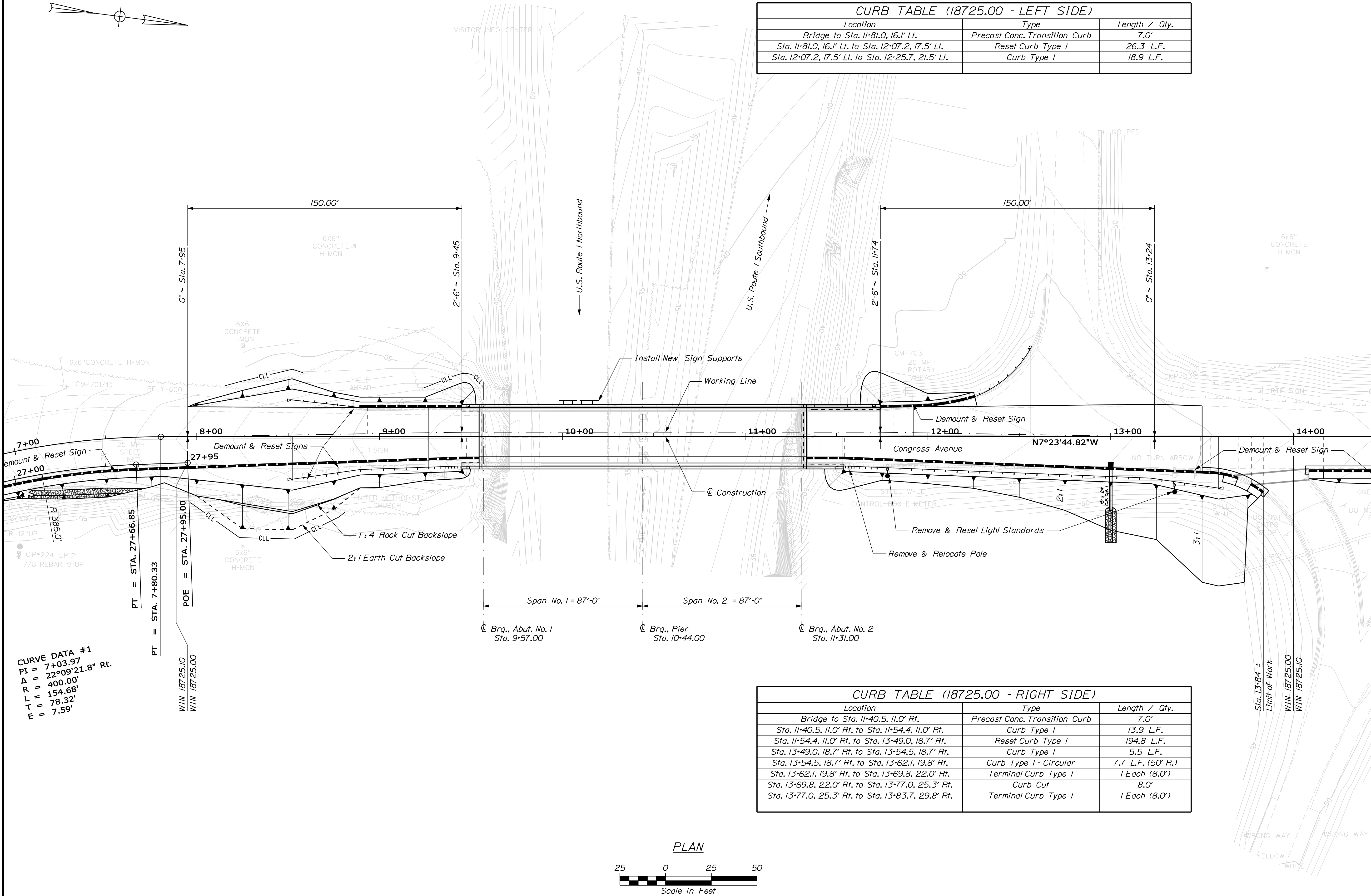
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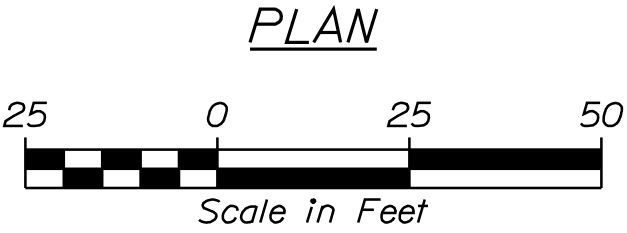
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CURB TABLE (18725.00 - LEFT SIDE)		
Location	Type	Length / Qty.
Bridge to Sta. 11+81.0, 16.1' Lt.	Precast Conc. Transition Curb	7.0'
Sta. 11+81.0, 16.1' Lt. to Sta. 12+07.2, 17.5' Lt.	Reset Curb Type I	26.3 L.F.
Sta. 12+07.2, 17.5' Lt. to Sta. 12+25.7, 21.5' Lt.	Curb Type I	18.9 L.F.

CURB TABLE (18725.00 - RIGHT SIDE)		
Location	Type	Length / Qty.
Bridge to Sta. 11+40.5, 11.0' Rt.	Precast Conc. Transition Curb	7.0'
Sta. 11+40.5, 11.0' Rt. to Sta. 11+54.4, 11.0' Rt.	Curb Type I	13.9 L.F.
Sta. 11+54.4, 11.0' Rt. to Sta. 13+49.0, 18.7' Rt.	Reset Curb Type I	194.8 L.F.
Sta. 13+49.0, 18.7' Rt. to Sta. 13+54.5, 18.7' Rt.	Curb Type I	5.5 L.F.
Sta. 13+54.5, 18.7' Rt. to Sta. 13+62.1, 19.8' Rt.	Curb Type I - Circular	7.7 L.F. (50' R.)
Sta. 13+62.1, 19.8' Rt. to Sta. 13+69.8, 22.0' Rt.	Terminal Curb Type I	1 Each (8.0')
Sta. 13+69.8, 22.0' Rt. to Sta. 13+77.0, 25.3' Rt.	Curb Cut	8.0'
Sta. 13+77.0, 25.3' Rt. to Sta. 13+83.7, 29.8' Rt.	Terminal Curb Type I	1 Each (8.0')



STATE OF MAINE  
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STP-1872(500)

WIN  
BRIDGE NO. 6142 18725.00 & 18725.10  
BRIDGE PLANS

CENTRE STREET CONNECTION  
U.S. ROUTE 1  
SAGadahoc COUNTY

BATH

SHEET NUMBER  
5  
OF 53

BY  
J. Kittridge  
D. Edon  
WSP

DATE  
Oct 2017  
Nov 2017

SIGNATURE

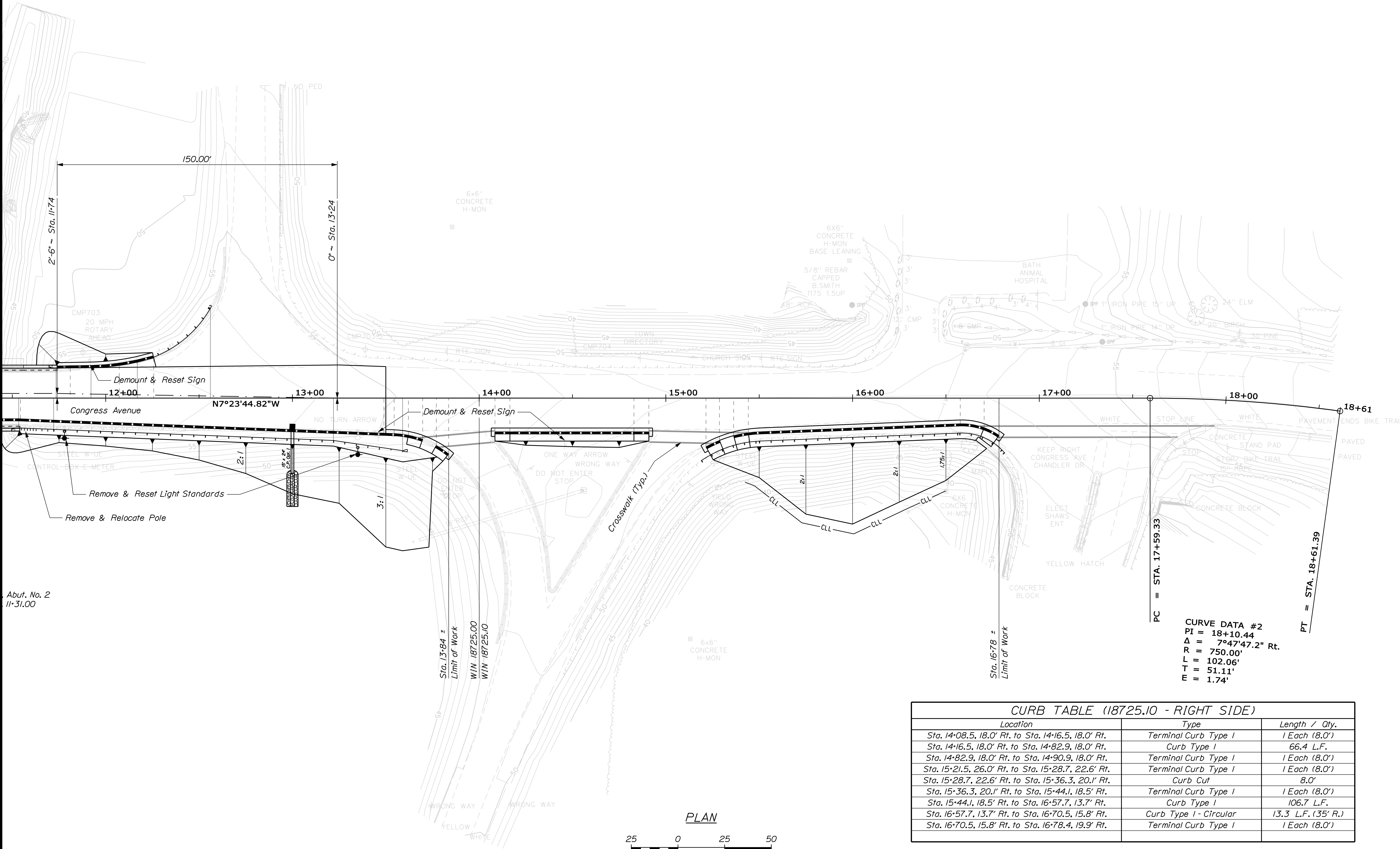
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REVISIONS 2  
REVISIONS 3  
REVISIONS 4  
FIELD CHANGES

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DESIGN-DETAILED  
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DESIGN-DETAILED  
REVISIONS 1  
REVISIONS 2  
REVISIONS 3  
REVISIONS 4  
FIELD CHANGES



CURB TABLE (18725.10 - RIGHT SIDE)		
Location	Type	Length / Qty.
Sta. 14+08.5, 18.0' Rt. to Sta. 14+16.5, 18.0' Rt.	Terminal Curb Type I	1 Each (8.0')
Sta. 14+16.5, 18.0' Rt. to Sta. 14+82.9, 18.0' Rt.	Curb Type I	66.4 L.F.
Sta. 14+82.9, 18.0' Rt. to Sta. 14+90.9, 18.0' Rt.	Terminal Curb Type I	1 Each (8.0')
Sta. 15+21.5, 26.0' Rt. to Sta. 15+28.7, 22.6' Rt.	Terminal Curb Type I	1 Each (8.0')
Sta. 15+28.7, 22.6' Rt. to Sta. 15+36.3, 20.1' Rt.	Curb Cut	8.0'
Sta. 15+36.3, 20.1' Rt. to Sta. 15+44.1, 18.5' Rt.	Terminal Curb Type I	1 Each (8.0')
Sta. 15+44.1, 18.5' Rt. to Sta. 16+57.7, 13.7' Rt.	Curb Type I	106.7 L.F.
Sta. 16+57.7, 13.7' Rt. to Sta. 16+70.5, 15.8' Rt.	Curb Type I - Circular	13.3 L.F. (35' R.)
Sta. 16+70.5, 15.8' Rt. to Sta. 16+78.4, 19.9' Rt.	Terminal Curb Type I	1 Each (8.0')

STATE OF MAINE  
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STP-1872(500)

BRIDGE NO. 6142  
WIN  
18725.00 & 18725.10  
BRIDGE PLANS

CENTRE STREET CONNECTION  
U.S. ROUTE 1  
BATH  
SAGADAHOC COUNTY

SHEET NUMBER  
6  
OF 53

PROJ. MANAGER  
J. Kittredge

DESIGN-DETAILED  
D. Edon

CHECKED-REVIEWED  
WSP

DESIGN-DETAILED  
WSP

REVISIONS  
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FIELD CHANGES

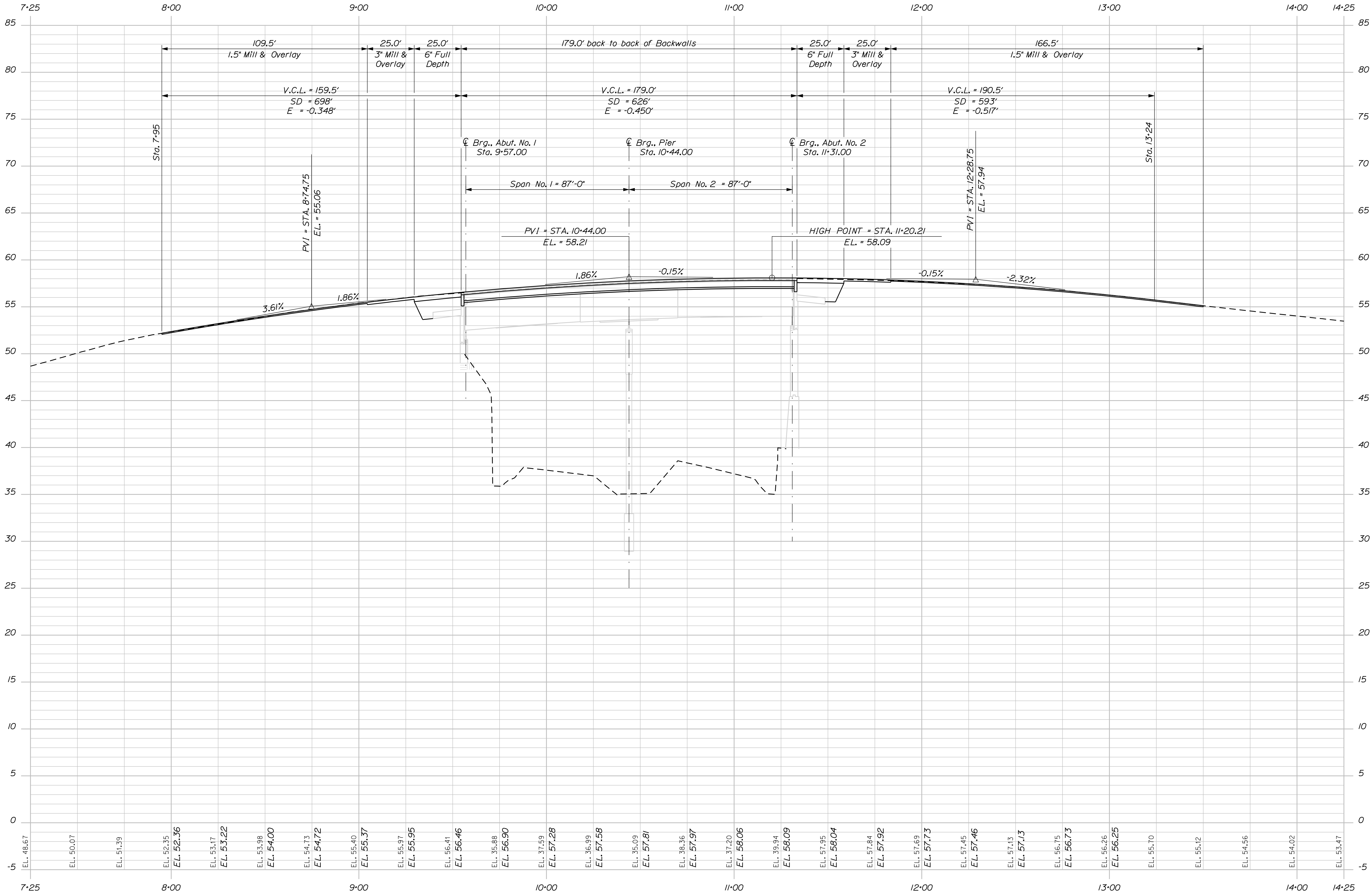
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Oct 2017

BY  
D. Damren

SIGNATURE

P.E. NUMBER

DATE



PROFILE ALONG CL CONSTRUCTION

CENTRE STREET CONNECTION U.S. ROUTE 1 SAGadahoc COUNTY  BATH	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
	STP-1872(500)		
	WIN		
	BRIDGE NO. 6142 18725.00 & 18725.10 BRIDGE PLANS		
SHEET NUMBER  7  OF 53	PROJ. MANAGER J. Kirtledge	BY D. Damren	DATE Oct. 2017
	DESIGN-DETAILED D. Eaton	WSP	Nov. 2017
	CHECKED-REVIEWED WSP		
	DESIGNS DETAILED		
	REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		
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DATE		DATE	

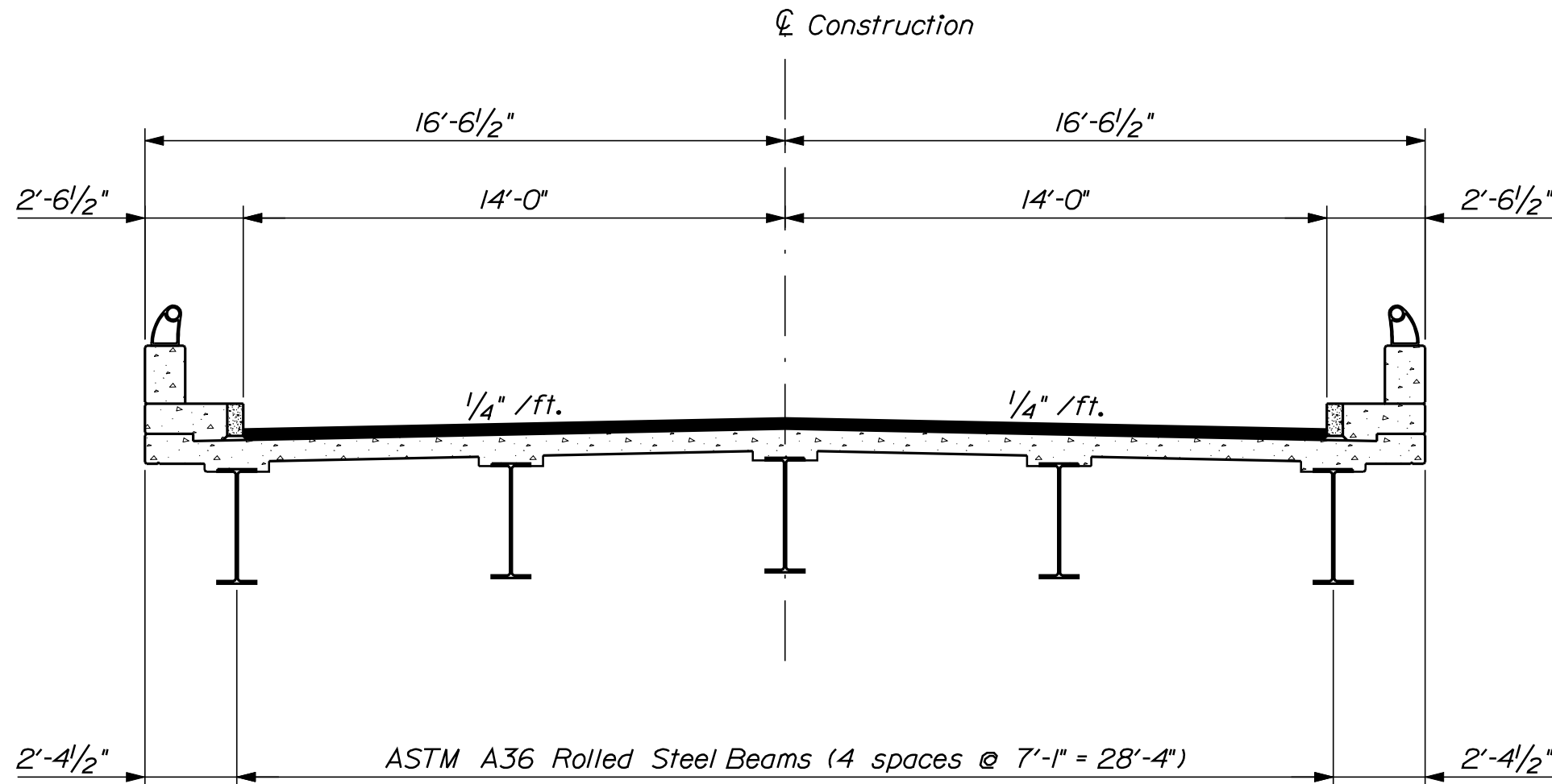


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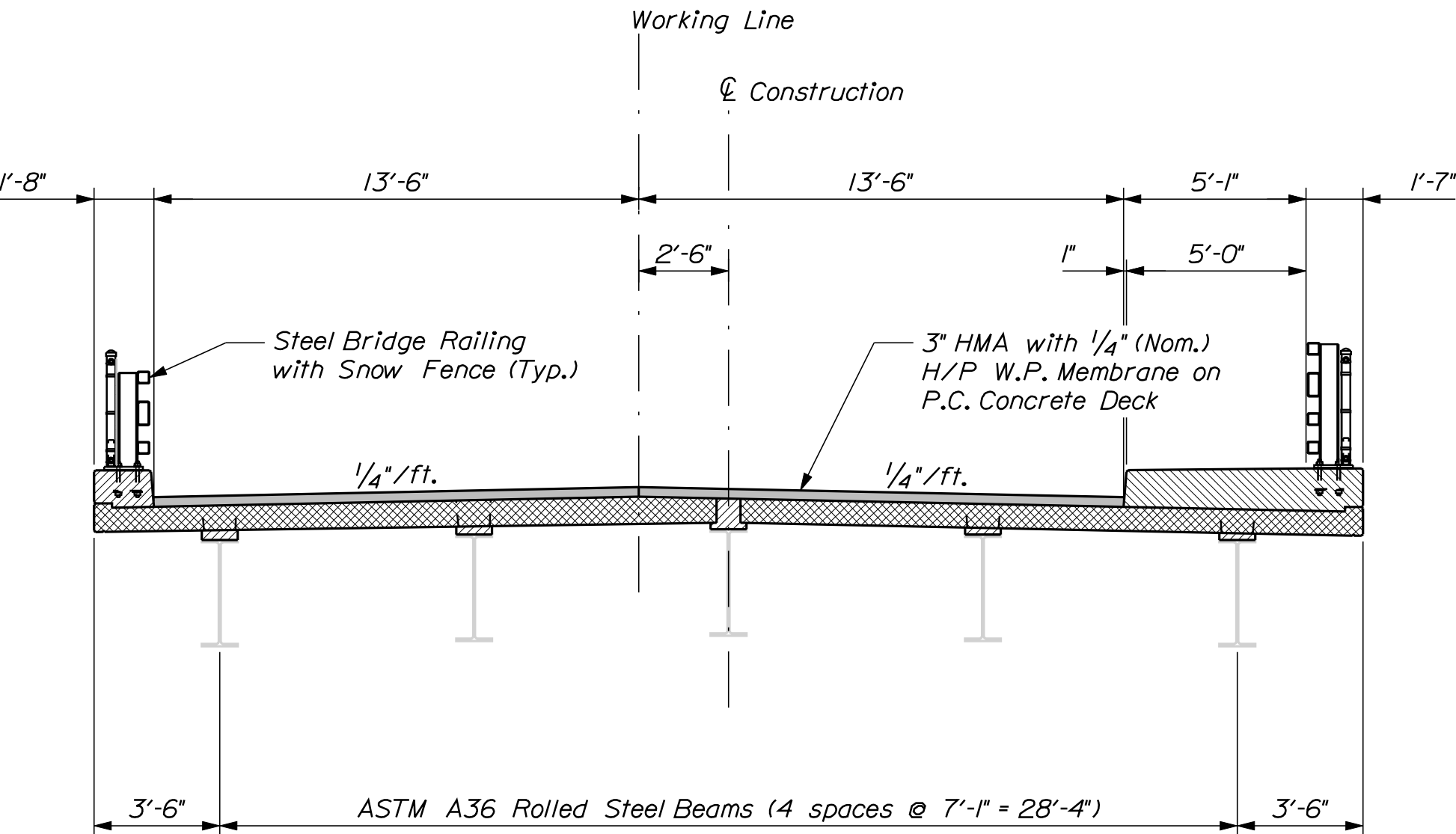
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Division: BRIDGE

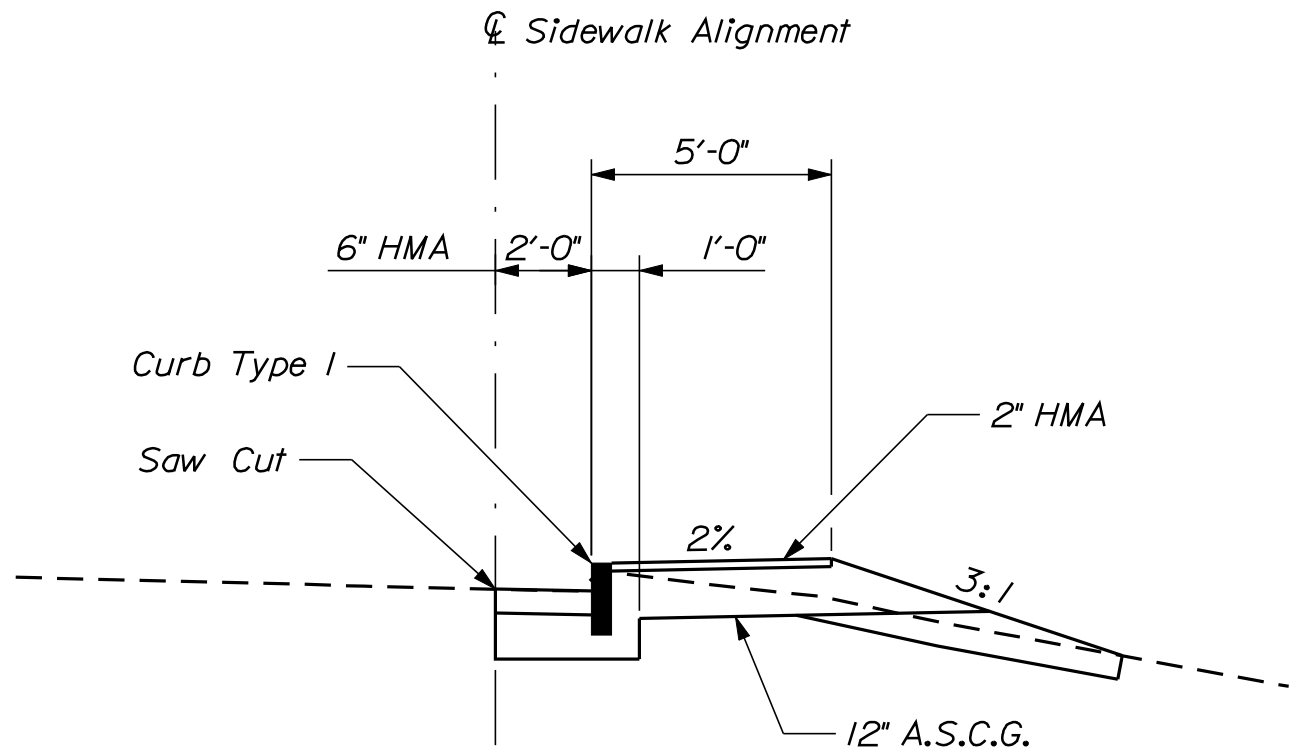
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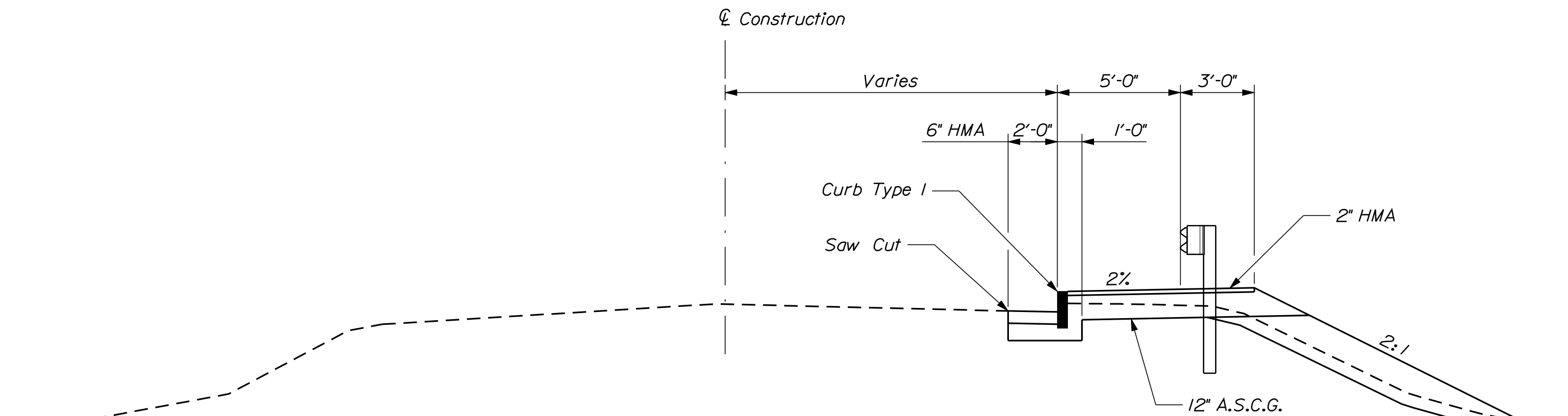
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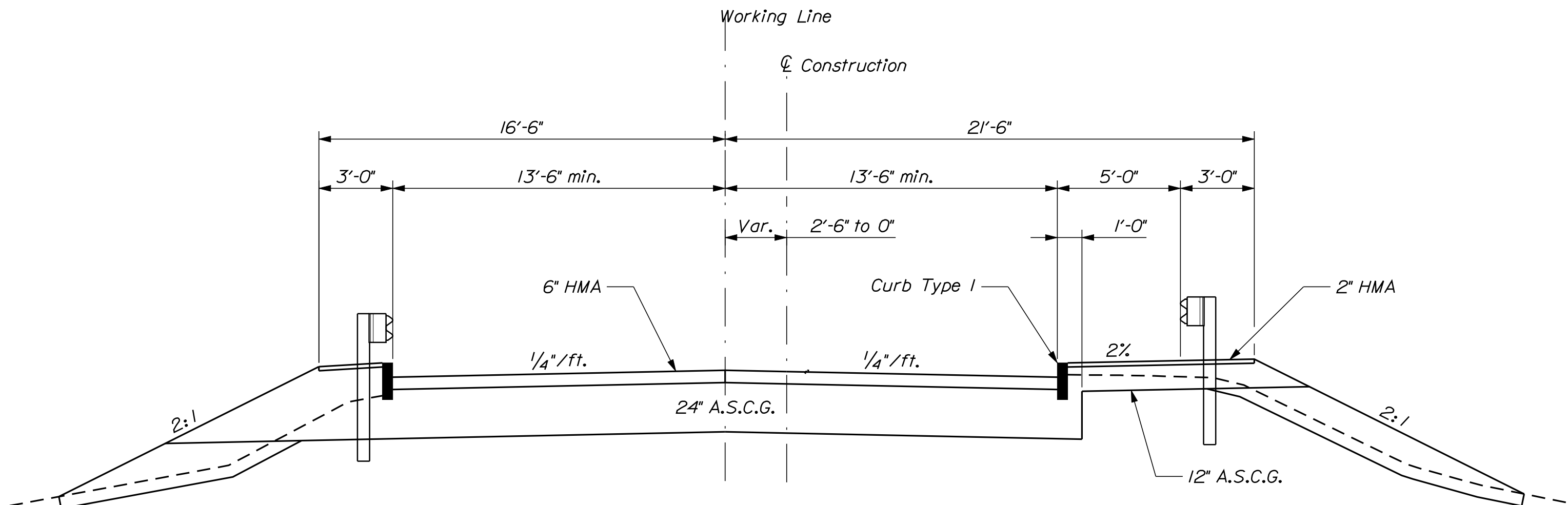
PROPOSED TRANSVERSE SECTION



SIDEWALK SECTION  
South of bridge

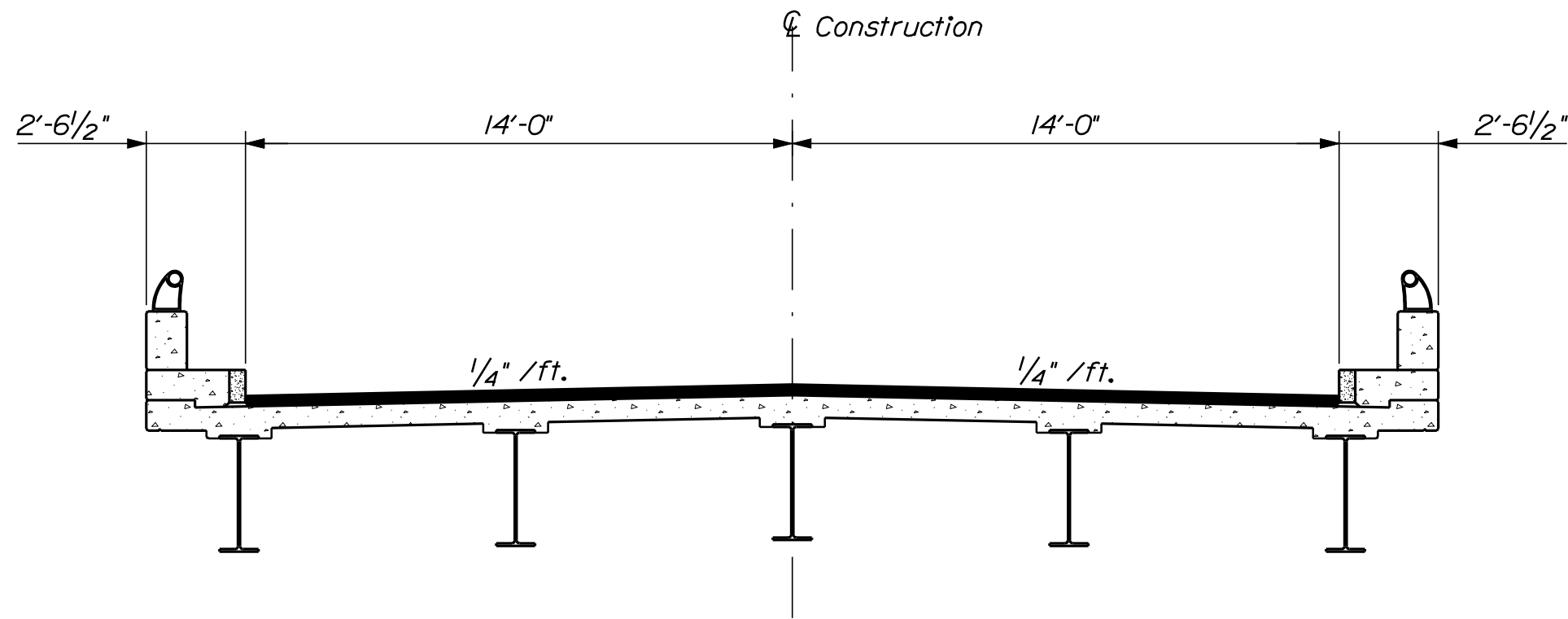


SIDEWALK SECTION  
North of bridge

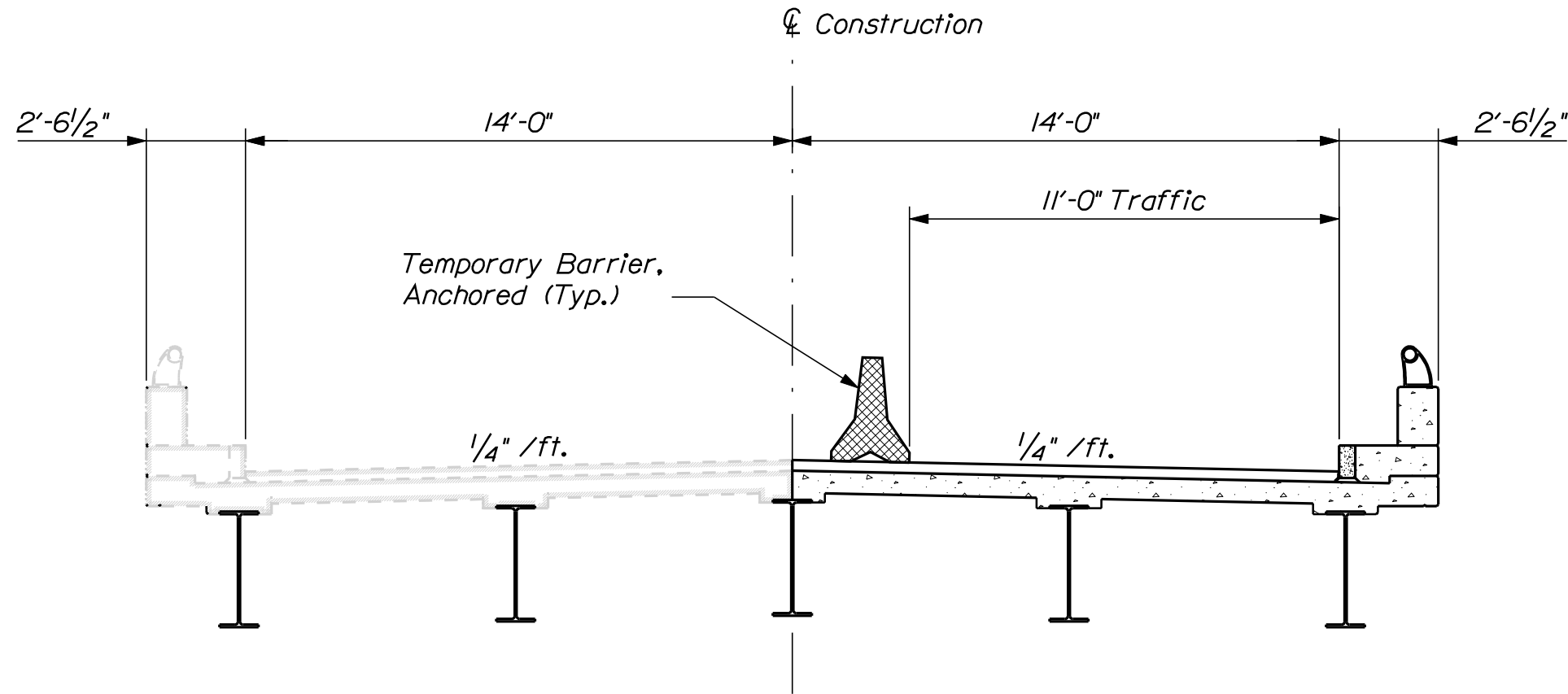


APPROACH DESIGN SECTION

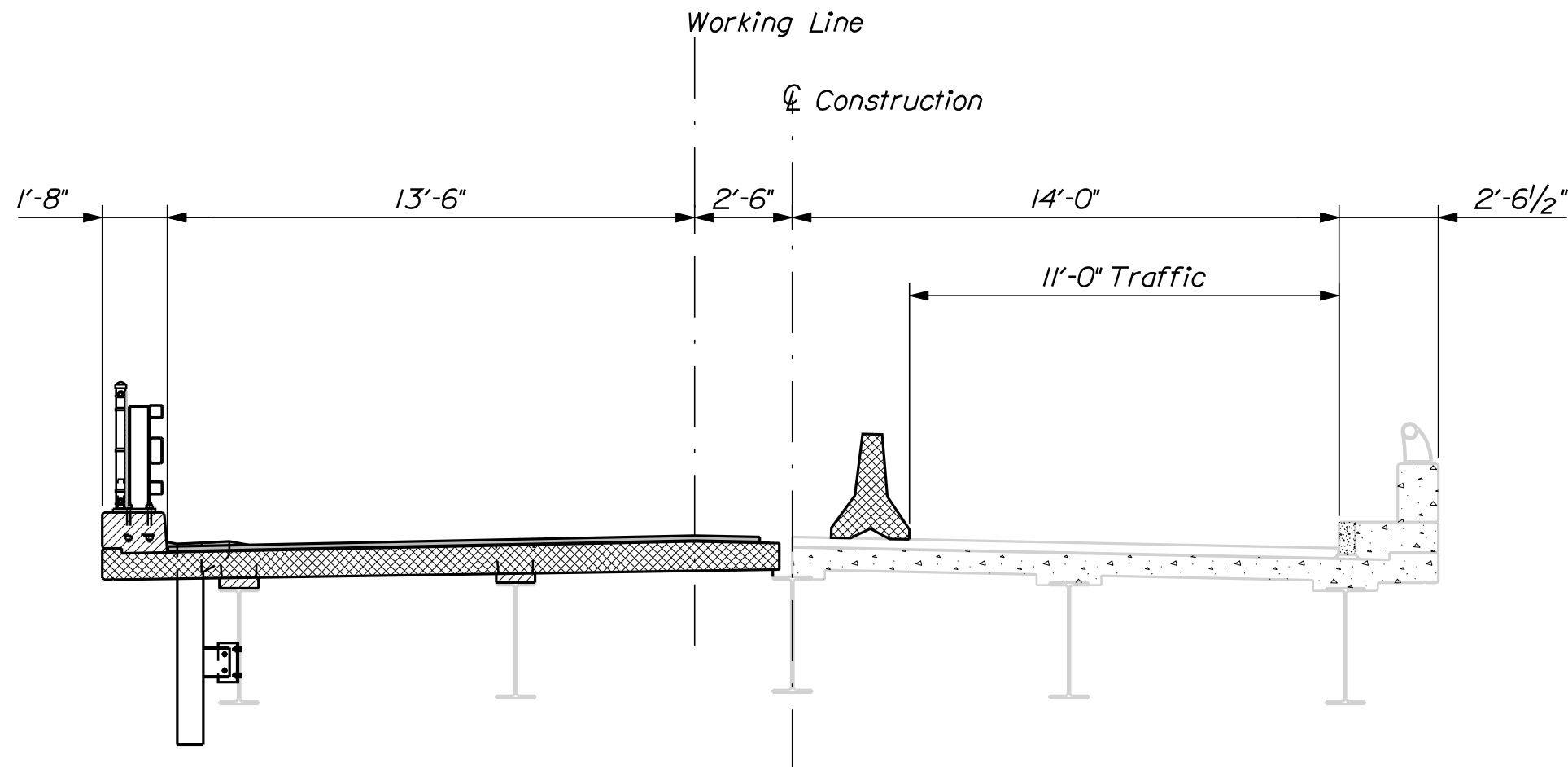
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		SIGNATURE		P.E. NUMBER		DATE	
BRIDGE NO. 6142		18725.00 & 18725.10		WIN		BRIDGE PLANS	
CENTRE STREET CONNECTION U.S. ROUTE 1 SAGADAHOC COUNTY		DESIGN-DETAILED		BY		DATE	
		CHECKED-REVISED		D. Eaton		Oct. 2017	
		DESIGN2-DETAILED2		WSP		Nov. 2017	
		DESIGN3-DETAILED3					
TYPICAL SECTIONS		REVISIONS 1					
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SHEET NUMBER		8		OF 53			



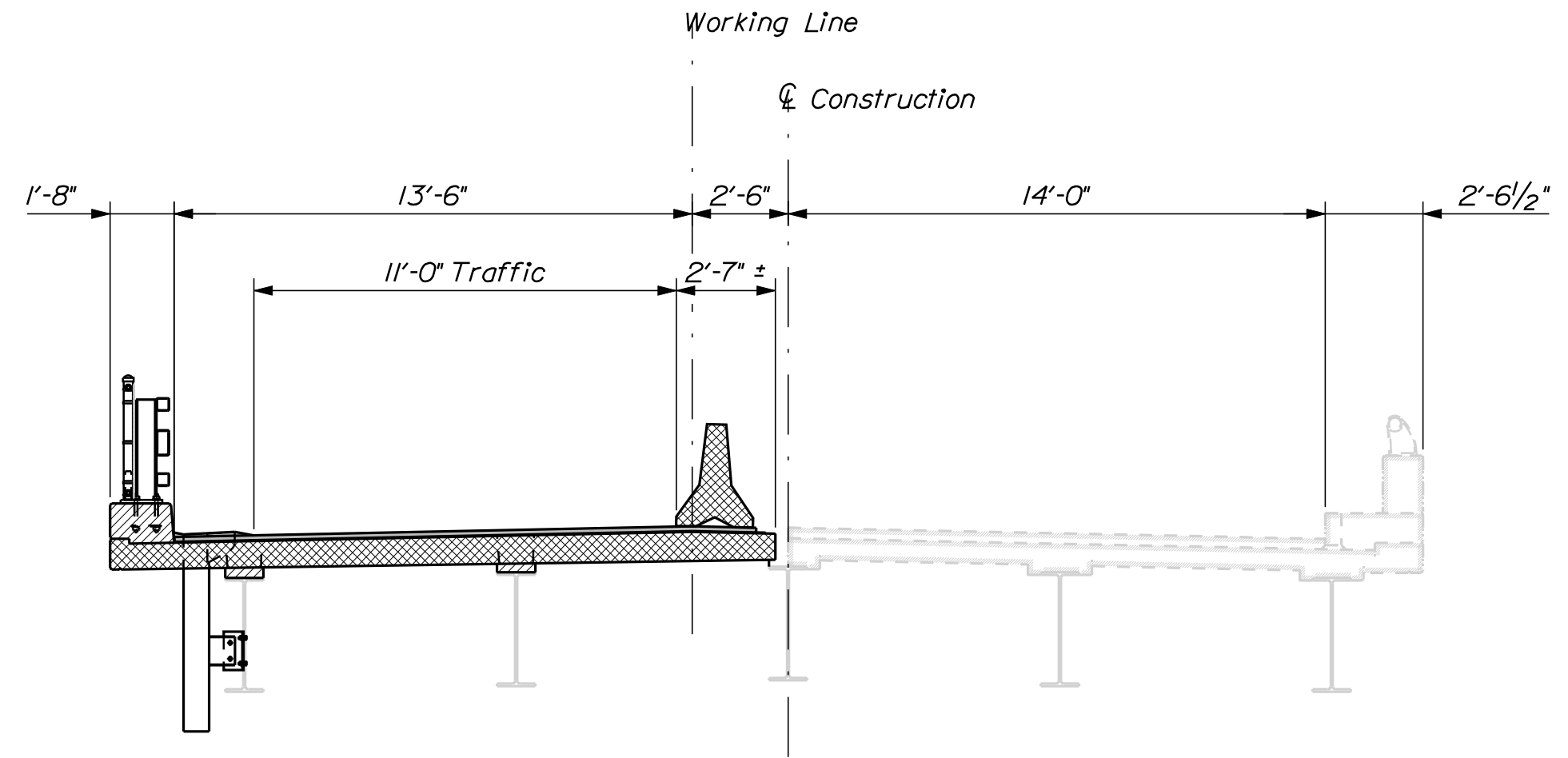
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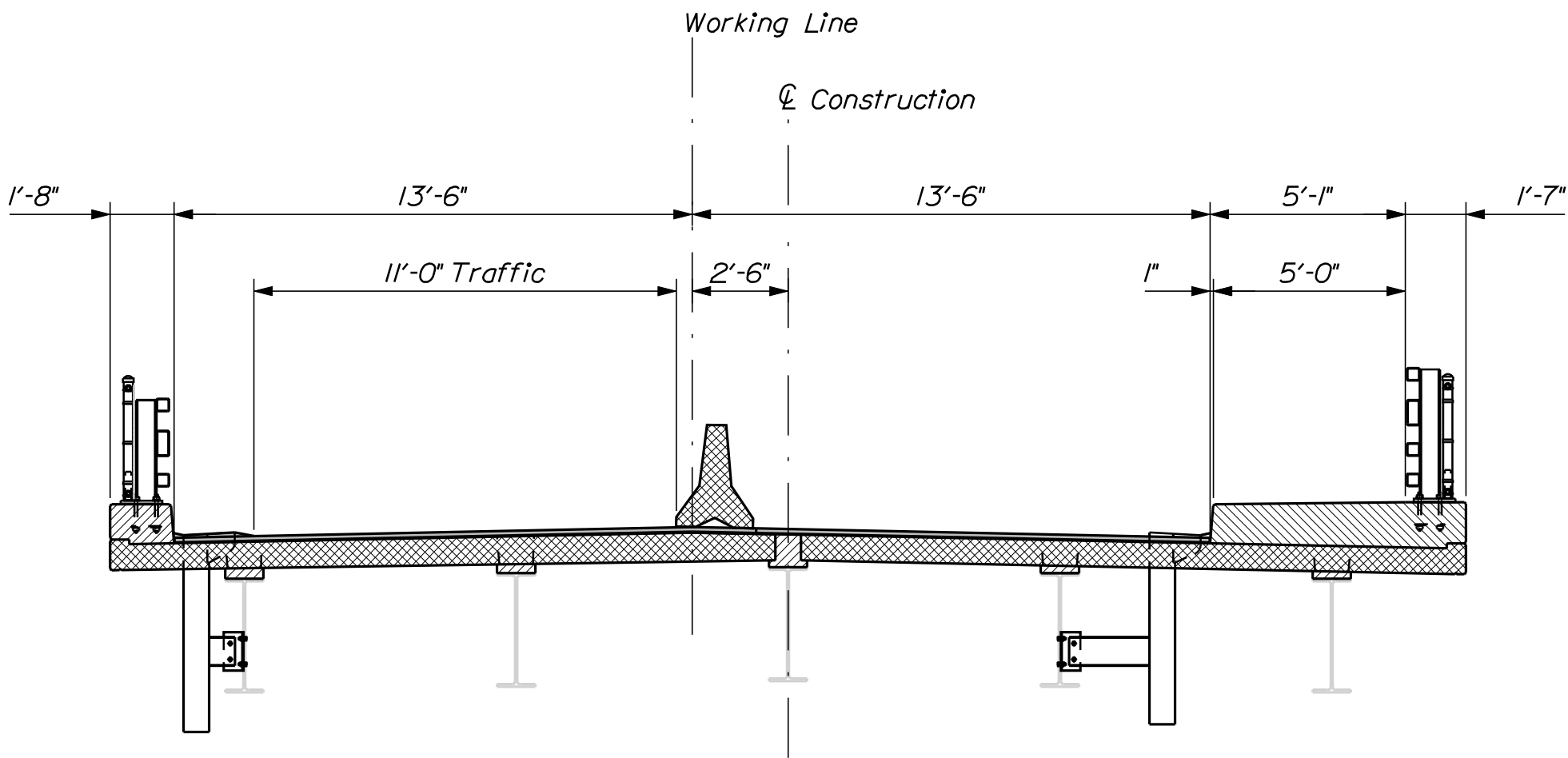
STAGE I - A  
Demolish western half of bridge deck and tops of wingwalls



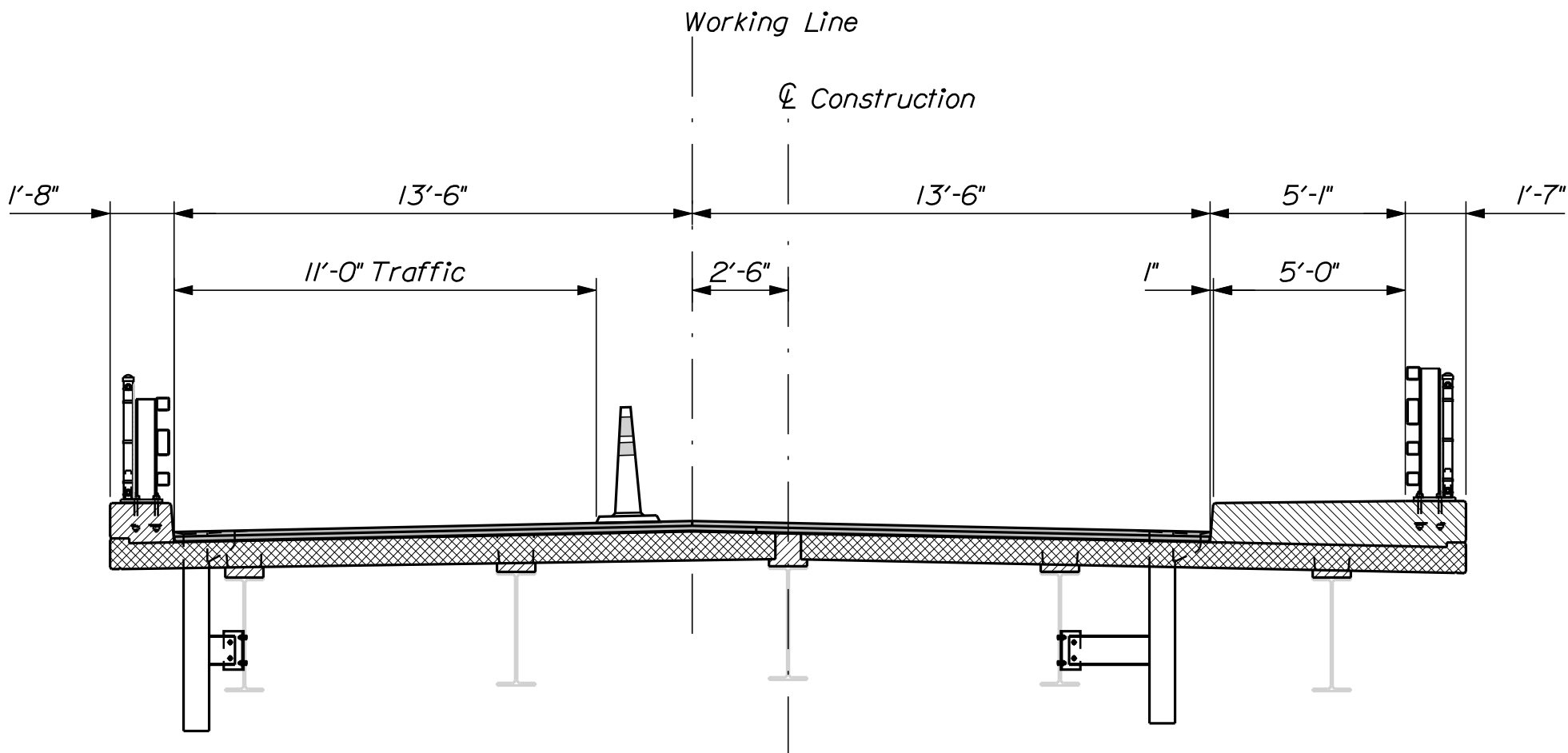
STAGE I - B  
Reconstruct western half of bridge deck and tops of wingwalls



STAGE II - A  
Demolish eastern half of bridge deck and tops of wingwalls



STAGE II - B  
Reconstruct eastern half of bridge deck and tops of wingwalls



STAGE III  
Remove barrier and complete paving using typical traffic maintenance operations.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BATH		SAGADAHOE COUNTY	
CENTRE STREET CONNECTION		U.S. ROUTE 1	
STAGE CONSTRUCTION		SHEET NUMBER	
9		OF 53	
STP-1872(500)		WIN	
BRIDGE NO. 6142		18725.00 & 18725.10	
BRIDGE PLANS		DATE	
SIGNATURE		P.E. NUMBER	
DATE		FIELD CHANGES	
BY		DATE	
J. Kirtledge		Oct 2017	
D. Eaton		Nov 2017	
WSP		WSP	
DESIGN DETAIL		DESIGN DETAIL	
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REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES	

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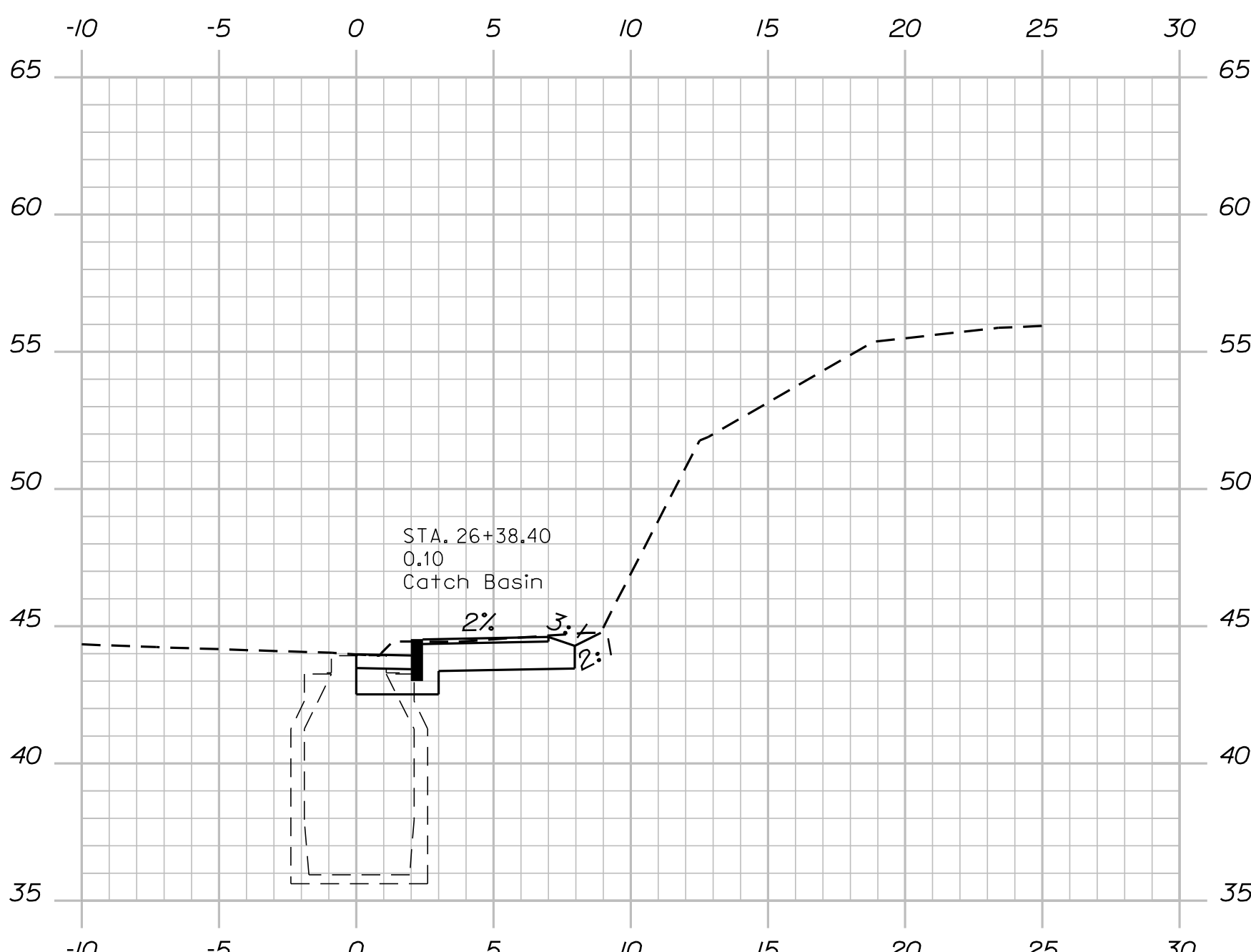
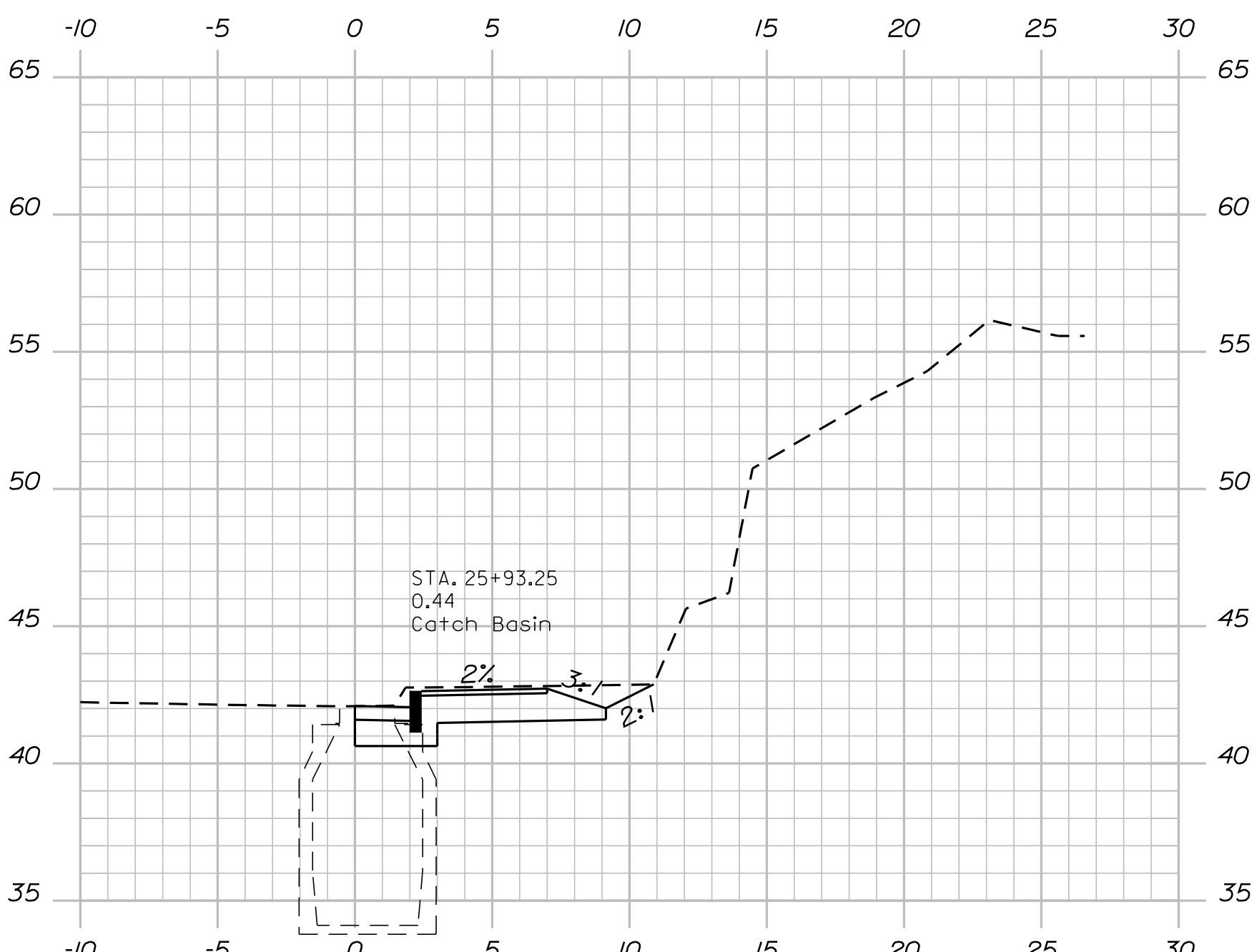
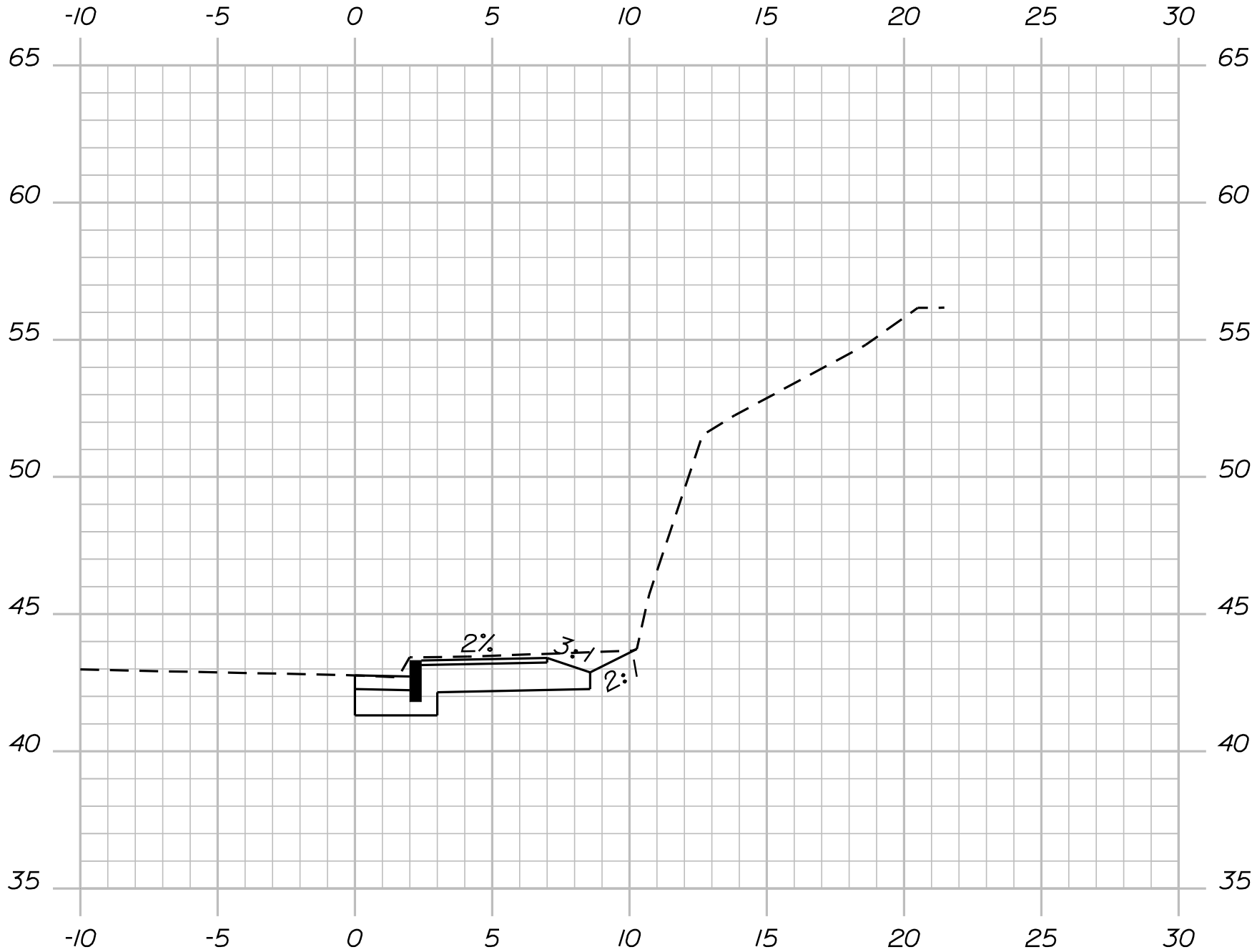
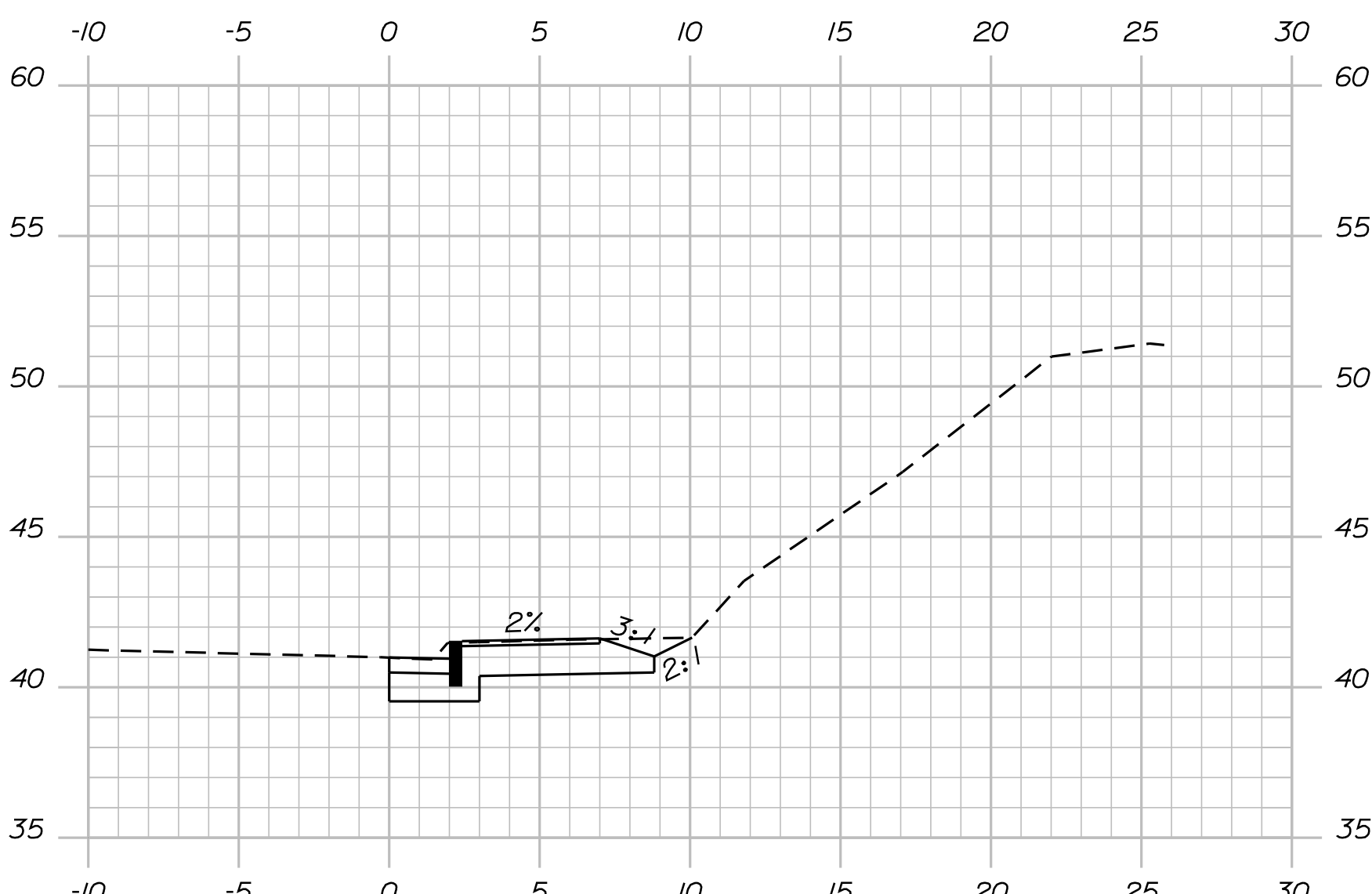
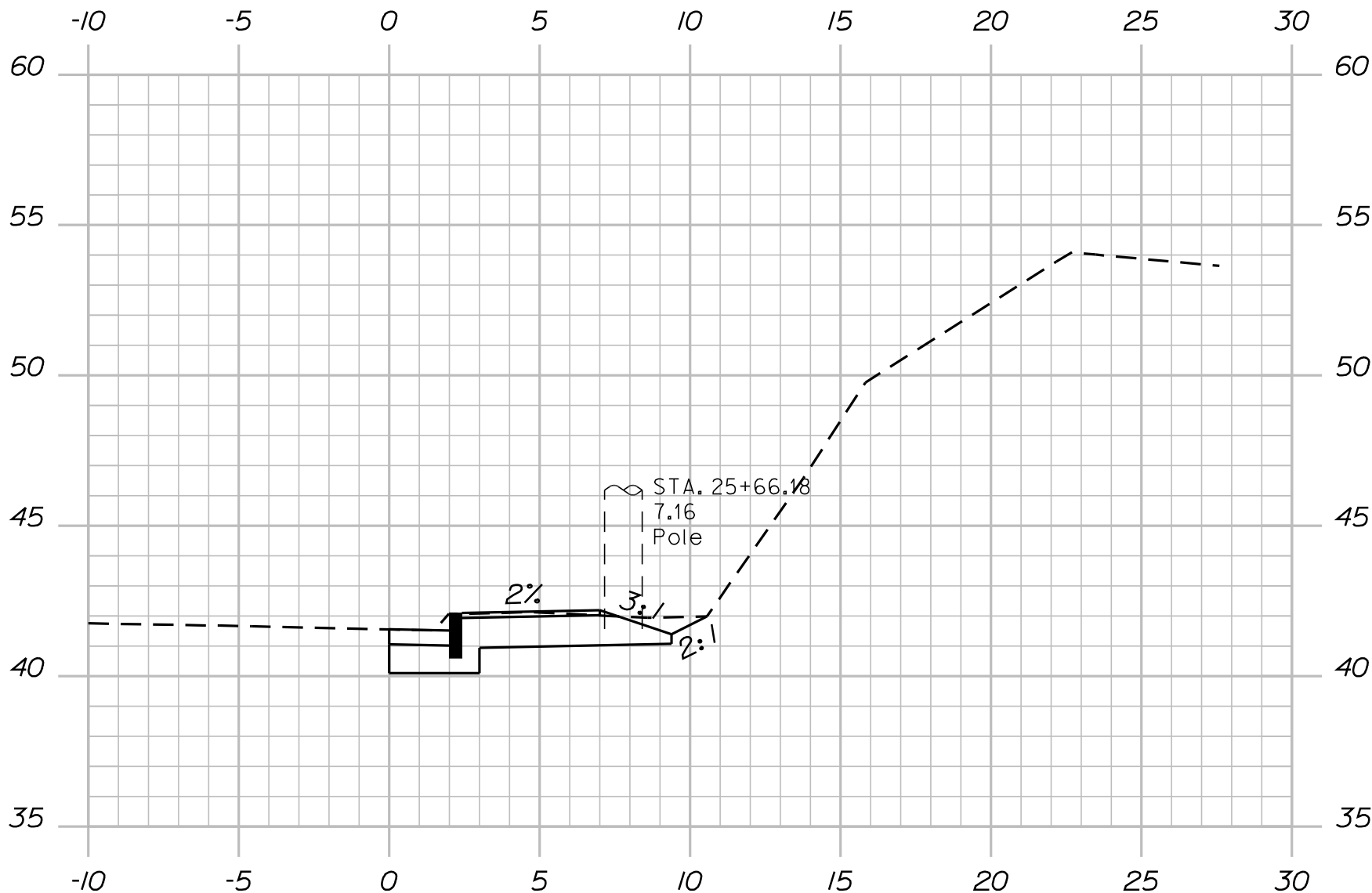


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Division: BRIDGE

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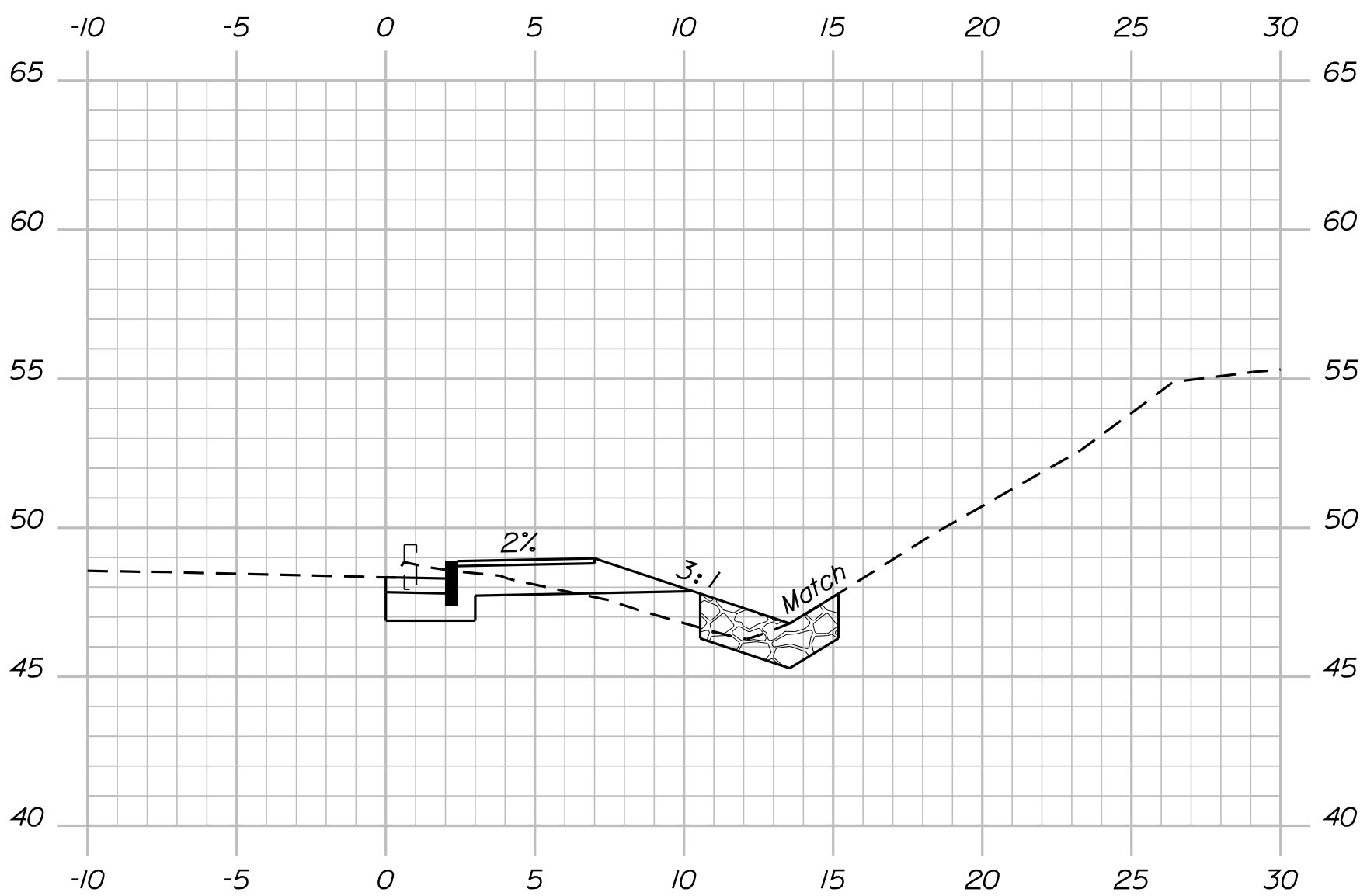
PROJ. MANAGER	J. Kirtledge	BY	D. Damren	DATE	Oct 2017
CHECKED-REVIEWED	D. Edon	WSP	WSP	SIGNATURE	
DESIGN-DETAILED				P.E. NUMBER	
REVISIONS 1				DATE	
REVISIONS 2					
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REVISIONS 4					
FIELD CHANGES					

Date:11/28/2017

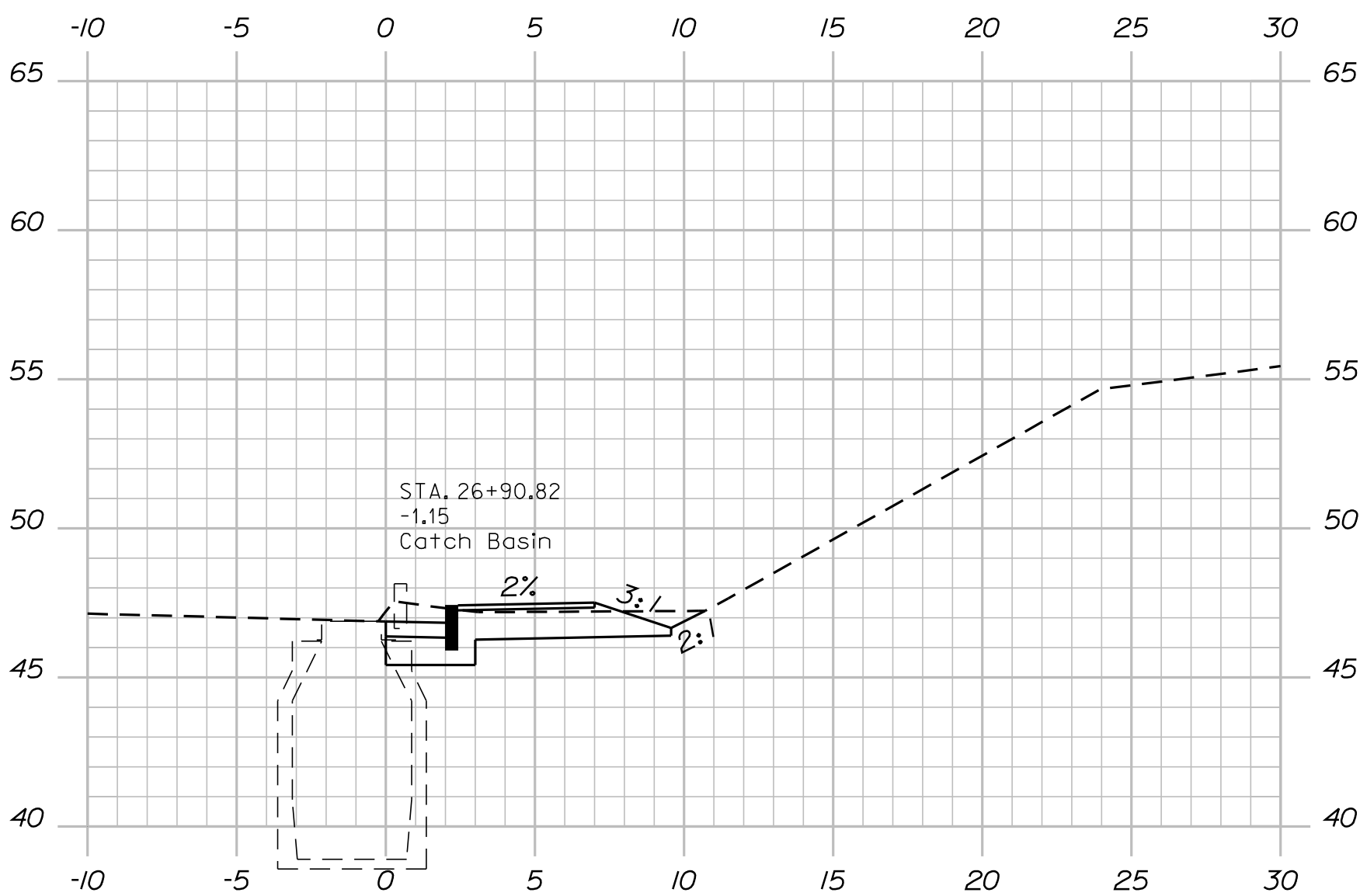
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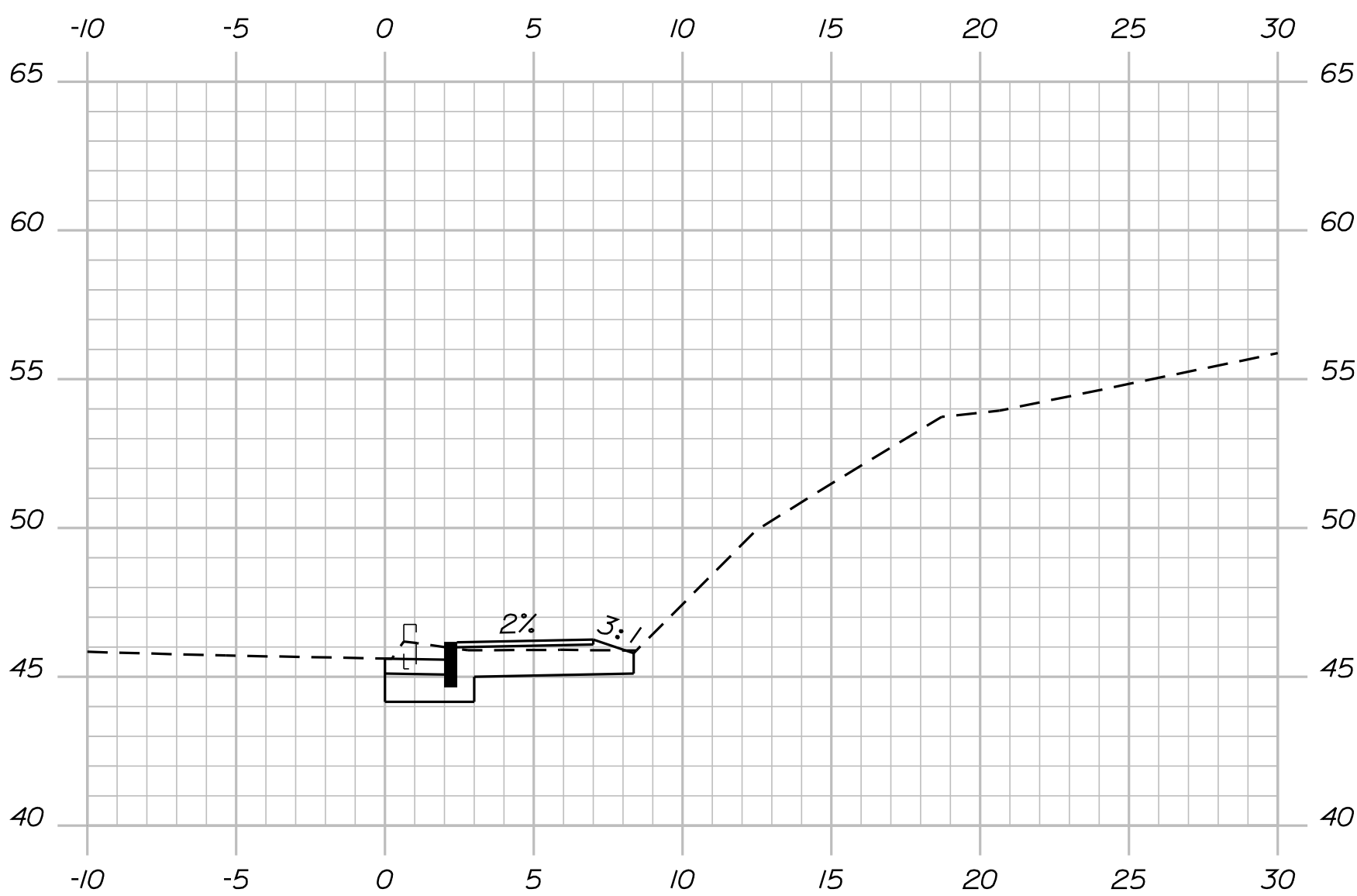
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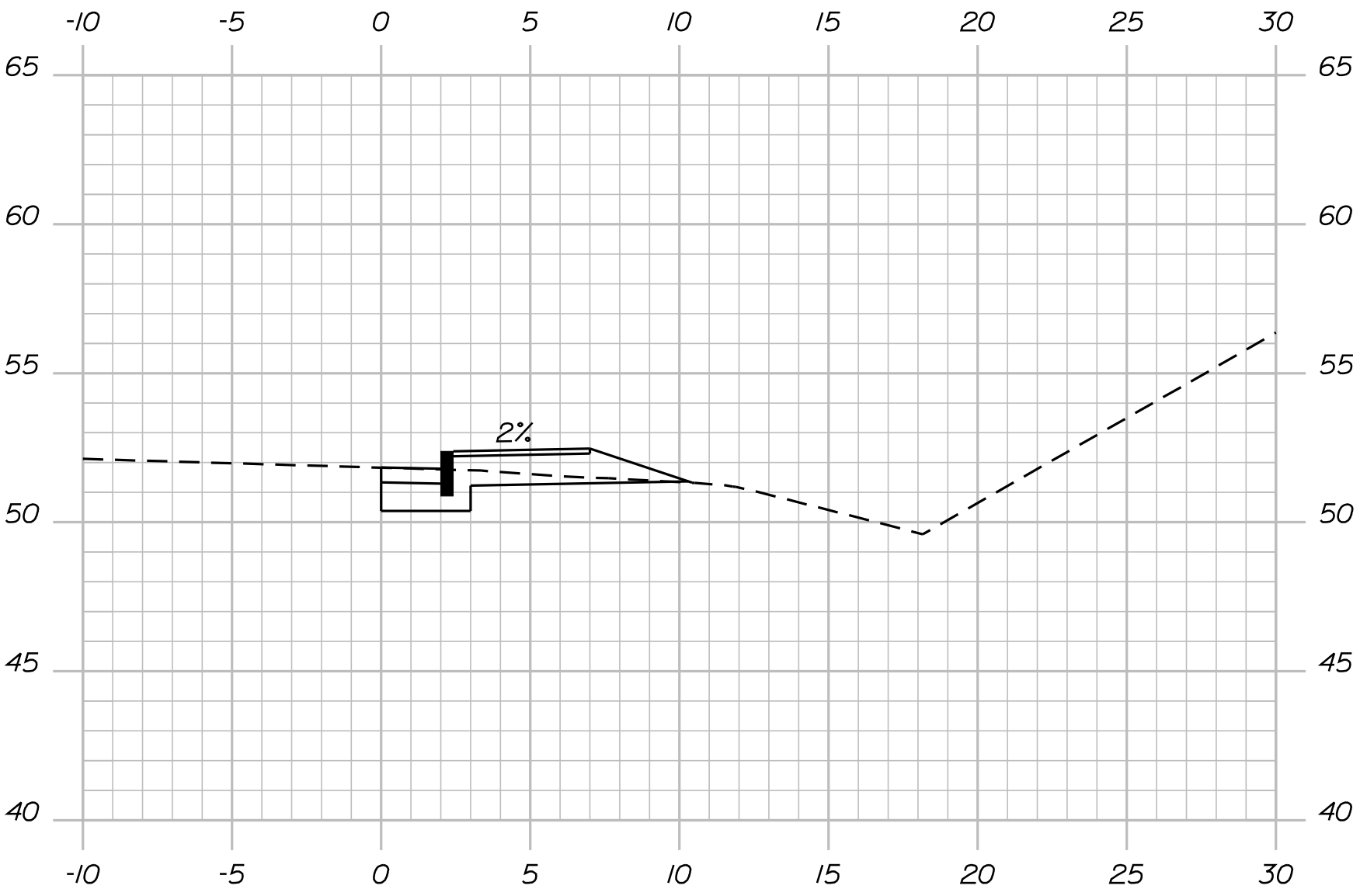
27+25.00



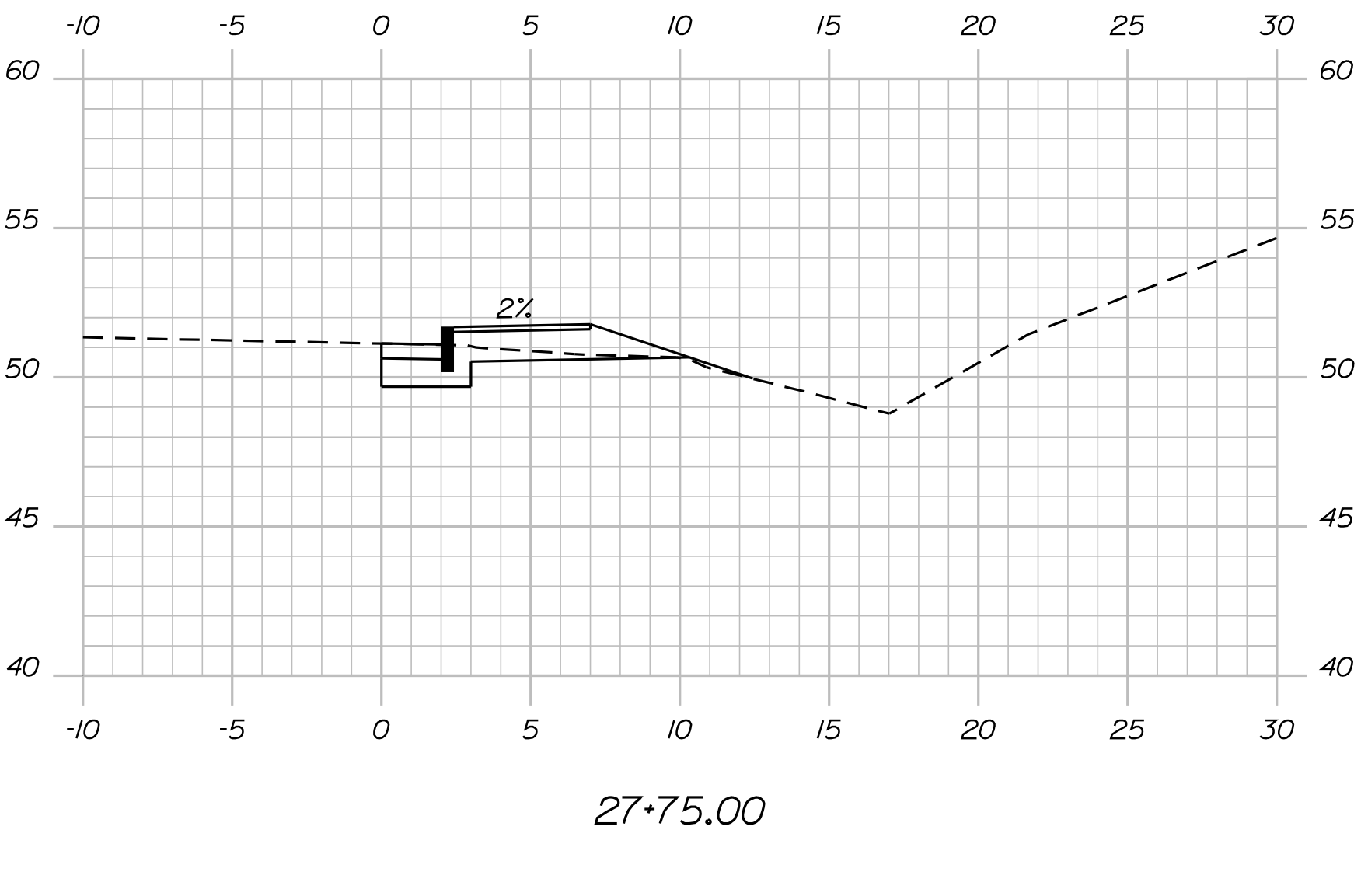
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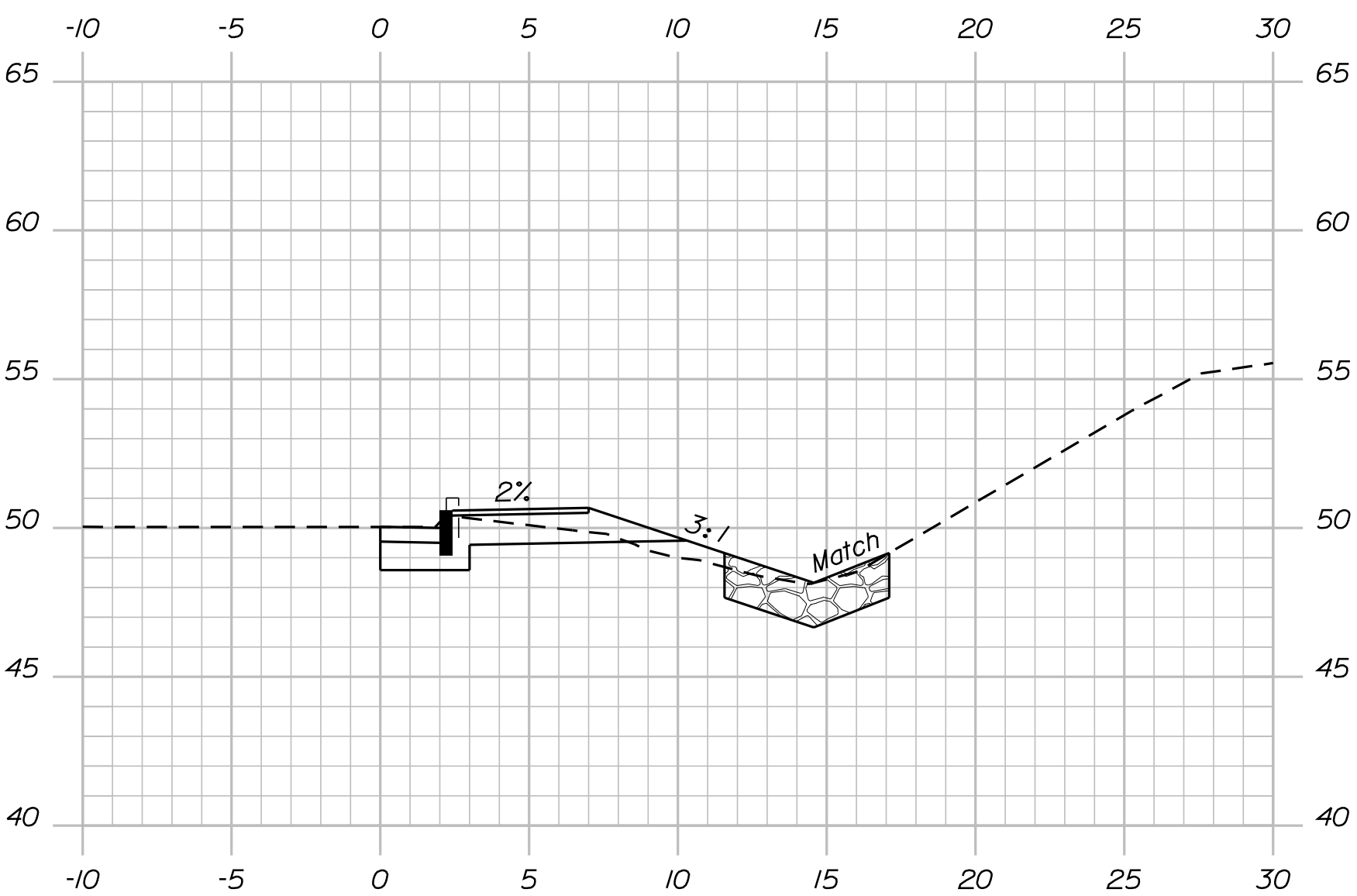
26+75.00



27+95.00

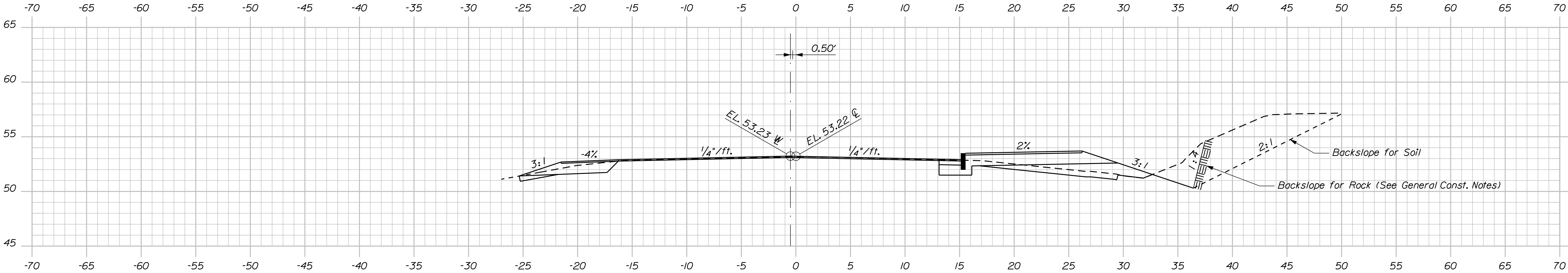


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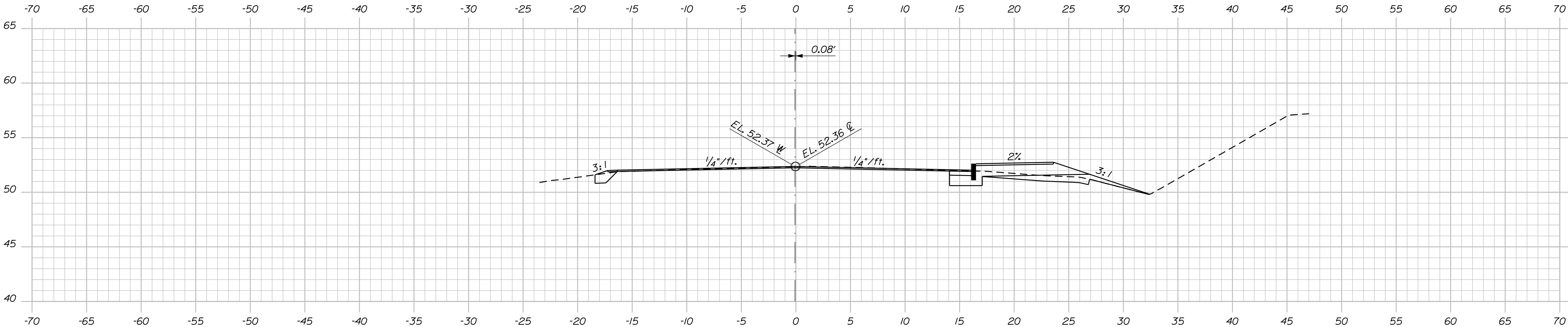


27+50.00

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BATH		STP-1872(500)	
CENTRE STREET CONNECTION		SIGNATURE	
U.S. ROUTE 1		P.E. NUMBER	
SAGadahoc COUNTY		DATE	
CROSS SECTIONS		BRIDGE NO. 6142	
SHEET NUMBER		WIN	
12		18725.00 & 18725.10	
OF 53		BRIDGE PLANS	



8+25.00



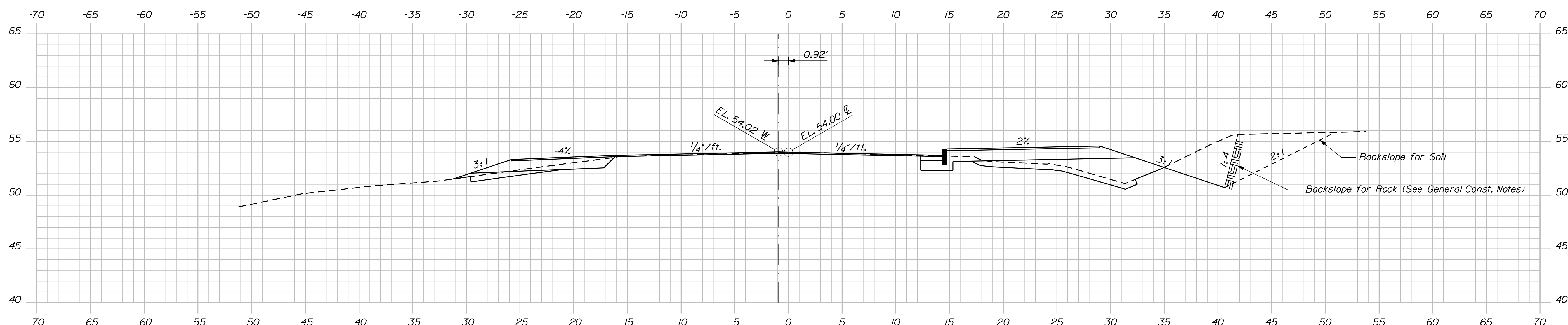
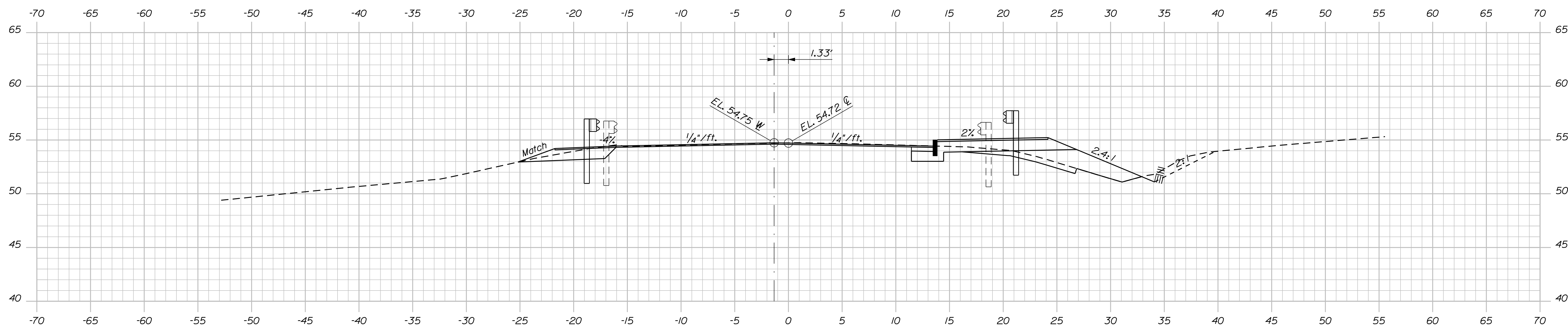
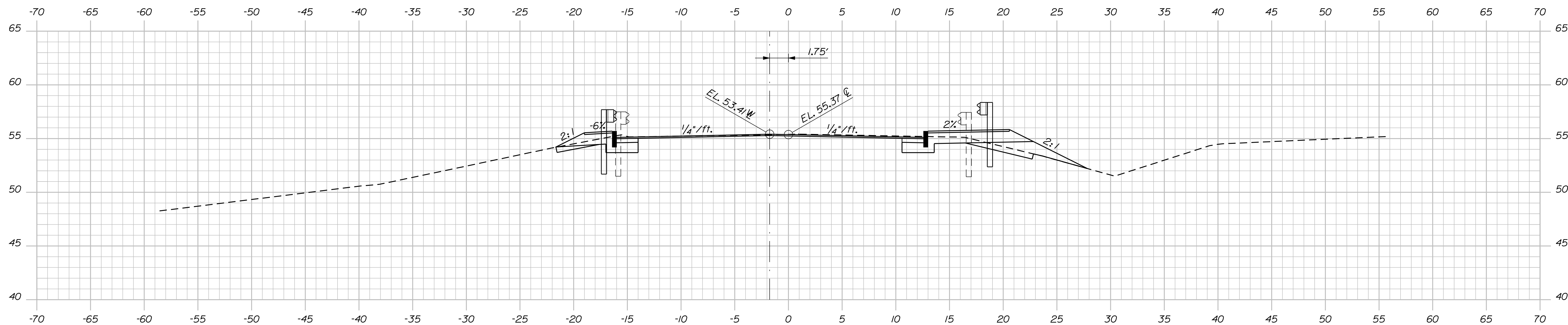
Sta. 7+95

8+00.00

Begin 1 1/2" Mill & Overlay

CENTRE STREET CONNECTION U.S. ROUTE 1 BATH SAGADAHOE COUNTY	STATE OF MAINE			
	DEPARTMENT OF TRANSPORTATION			
	STP-1872(500)			
	BRIDGE NO. 6142 18725.00 & 18725.10 WIN 18725.00 & 18725.10 BRIDGE PLANS			
CROSS SECTIONS	DESIGN-DETAILED	BY	DATE	SIGNATURE
	CHECKED-REVIEWED	D. Eaton	Oct. 2017	
	DESIGN-DETAILED	WSP	Nov. 2017	
	REVISIONS 1			P.E. NUMBER
	REVISIONS 2			DATE
	REVISIONS 3			
	REVISIONS 4			
	FIELD CHANGES			
SHEET NUMBER				
13				
OF 53				





8+50.00

Sta. 8+50.00 to Sta. 9+00.00

Date: 11/28/2017

Username: Dana.Damren

Division: BRIDGE

Filename: ... \bridge\msta\014\_Xsect\_8+50.dgn

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

**STP-1872(500)**

**WIN**

**BRIDGE NO. 6142 18725.00 & 18725.10 BRIDGE PLANS**

CENTRE STREET CONNECTION

U.S. ROUTE 1

SAGadahoc County

BATH

## CROSS SECTIONS

**SHEET NUMBER**

14

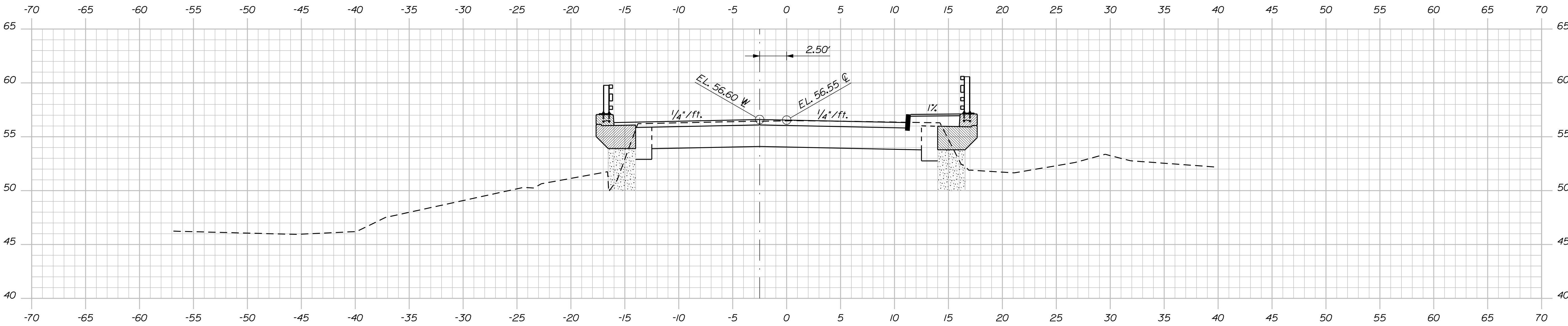
OF 53

Date:11/28/2017

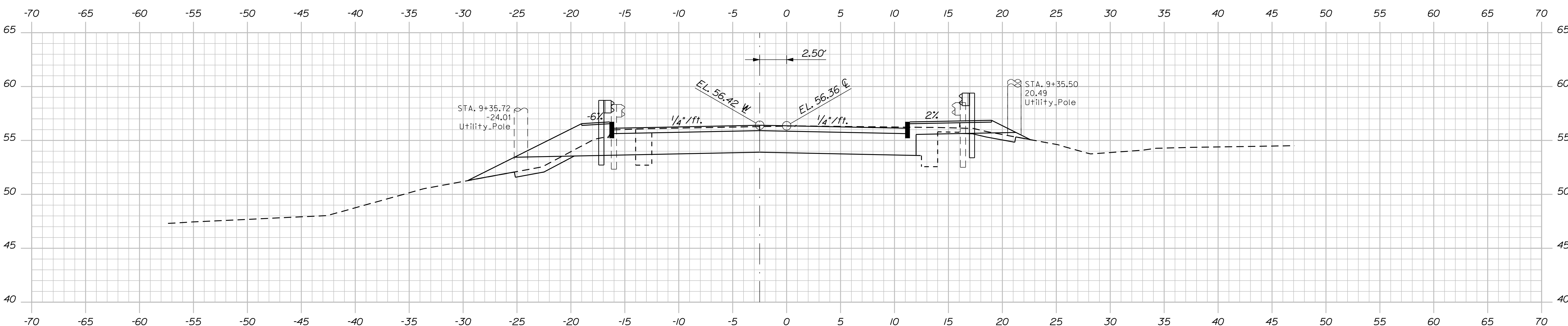
Username: Dana.Damren

Division: BRIDGE

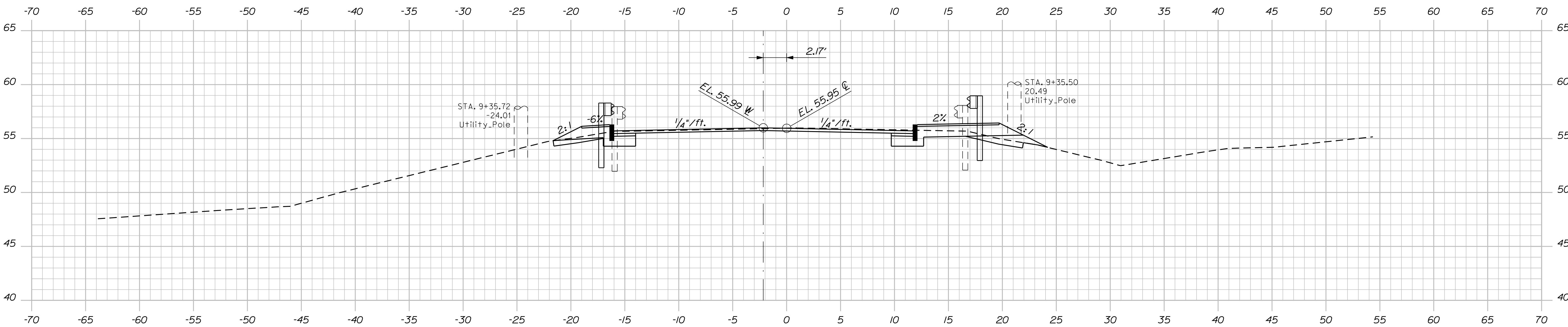
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9+54.50



9+45.00



9+25.00

End 3" Mill & Overlay  
Begin Full Depth Reconstruction

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE	
	P.E. NUMBER	
	DATE	

CENTRE STREET CONNECTION U.S. ROUTE 1 BATH	SAGADAHOC COUNTY	STP-1872(500)	
		WIN	
		BRIDGE NO. 8142 18725.00 & 18725.10	

CROSS SECTIONS	
----------------	--

SHEET NUMBER	
15	
OF 53	

Sta. 9+25.00 to Sta. 9+54.50



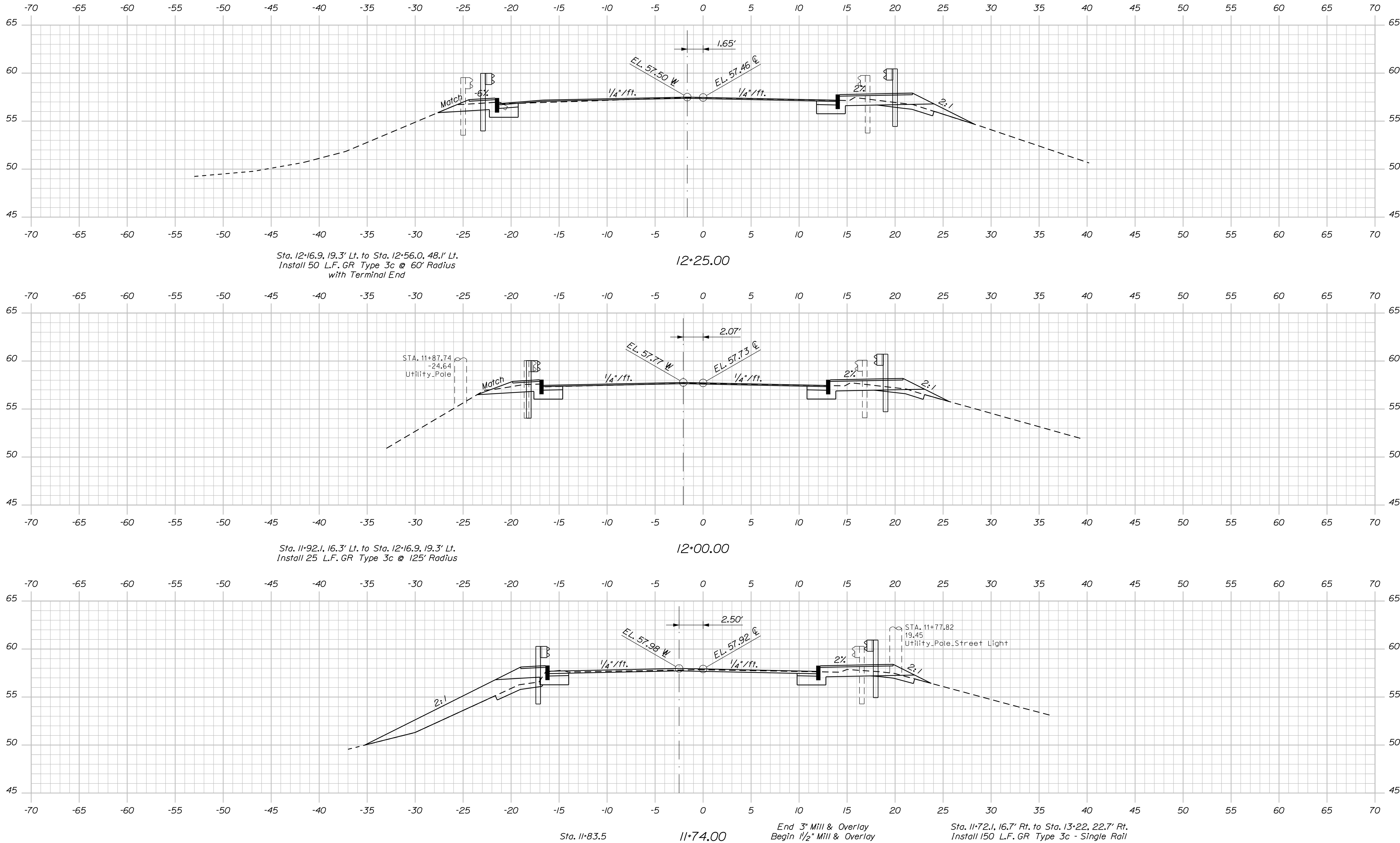


Date:11/28/2017

Username: Dana.Damren

Division: BRIDGE

Filename: ... \msta\017\_Xsect\_11-74.dgn



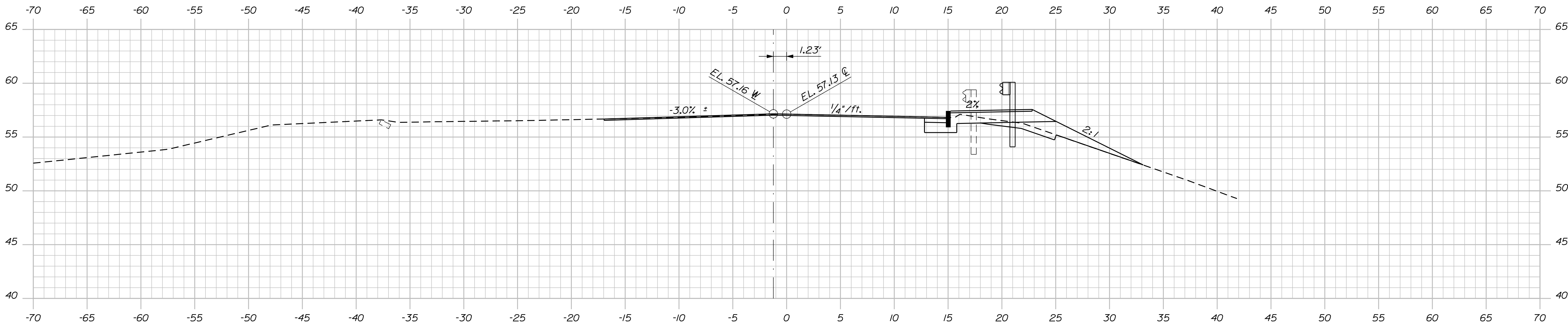
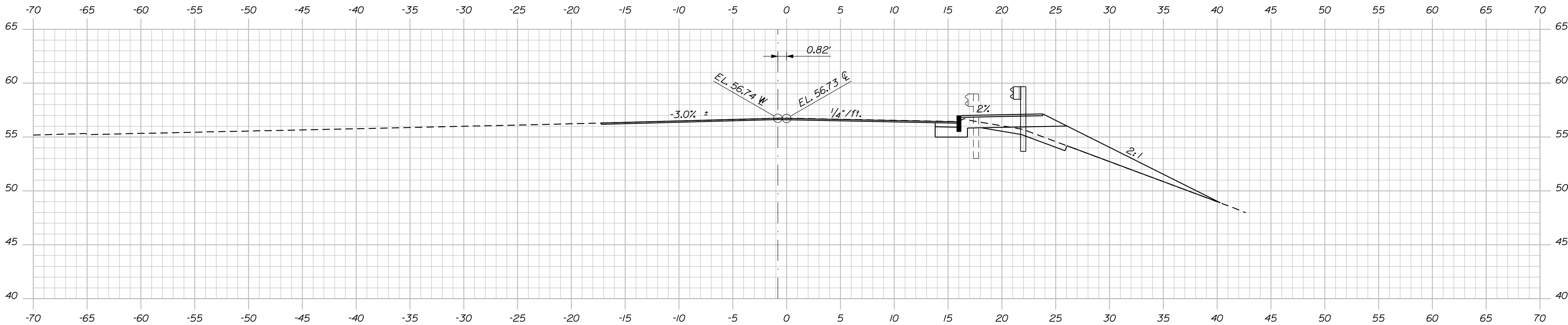
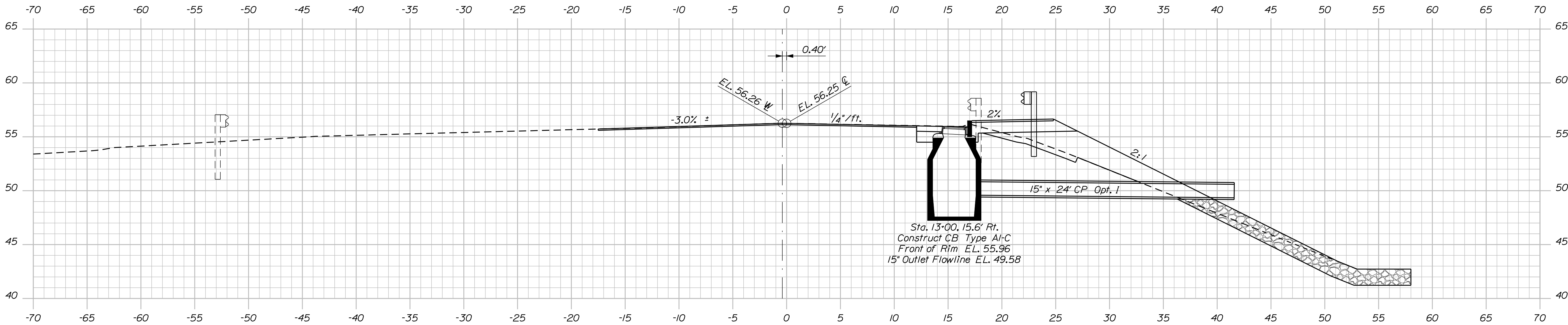
CENTRE STREET CONNECTION U.S. ROUTE 1 BATH		PROJ. MANAGER		J. Kittredge	BY	DATE
		DESIGN-DETAILED		D. Dornen	Oct. 2017	
SAGADAHOC COUNTY		CHECKED-REVIEWED		WSP	Nov. 2017	
		DESIGN-DETAILED		D2		
		DESIGN-DETAILED		D3		
CROSS SECTIONS		REVISIONS 1				
		REVISIONS 2				
		REVISIONS 3				
		REVISIONS 4				
FIELD CHANGES						
SHEET NUMBER		17				
OF 53						
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		SIGNATURE				STP-1872(500)
		DATE				
BRIDGE NO. 6142		WIN		18725.00 & 18725.10		BRIDGE PLANS

Date:11/28/2017

Username: Dana.Damren

Division: BRIDGE

Filename: ... \msta\018\_Xsect\_12+50.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

STP-1872(500)

BRIDGE NO. 6142  
WIN  
18725.00 & 18725.10  
BRIDGE PLANS

CENTRE STREET CONNECTION  
U.S. ROUTE 1  
BATH  
SAGadahoc COUNTY

CROSS SECTIONS

SHEET NUMBER  
18  
OF 53

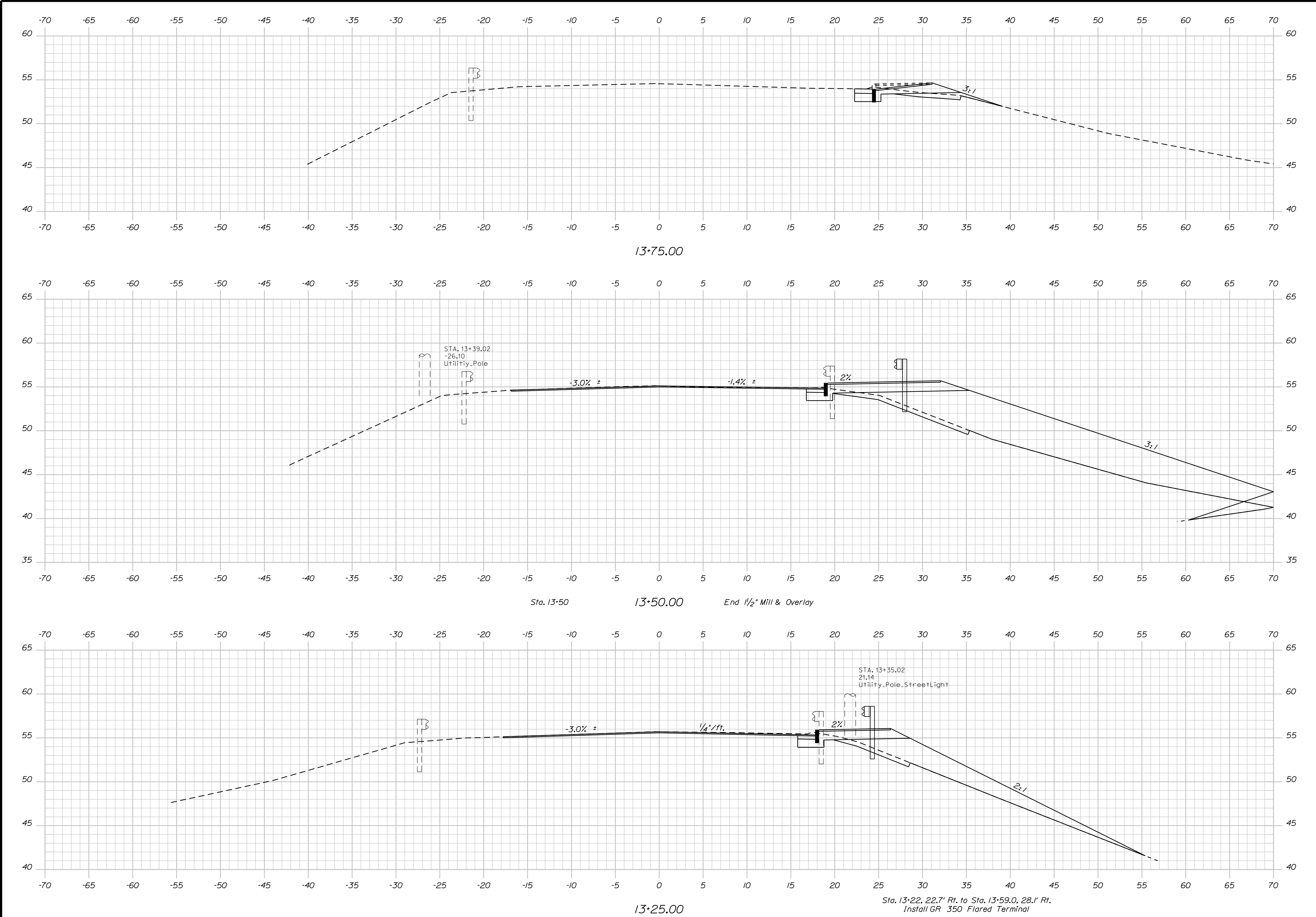
PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
J. Kirtledge	D. Damren	Oct. 2017			
CHECKED-REVIEWED	D. Edon	Nov. 2017			
DESIGN-DETAILED	WSP				
DESIGN-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

Date:11/28/2017

Username: Dana.Damren

Division: BRIDGE

Filename: ... \msta\019\_Xsect\_13+25.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

STP-1872(500)

BRIDGE NO. 6142WIN18725.00 & 18725.10BRIDGE PLANS

CENTRE STREET CONNECTION  
U.S. ROUTE 1  
BATHSAGADAHOC COUNTY

CROSS SECTIONS

SHEET NUMBER

19

OF 53

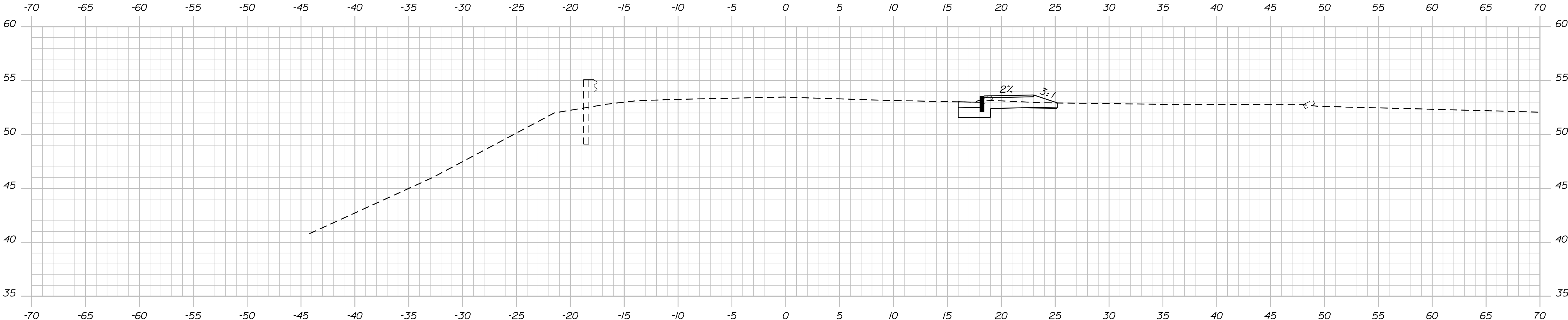
PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
J. Kirtledge	D. Damren	Oct 2017			
CHECKED-REVIEWED	WSP	Nov 2017			
DESIGN-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

Date:11/28/2017

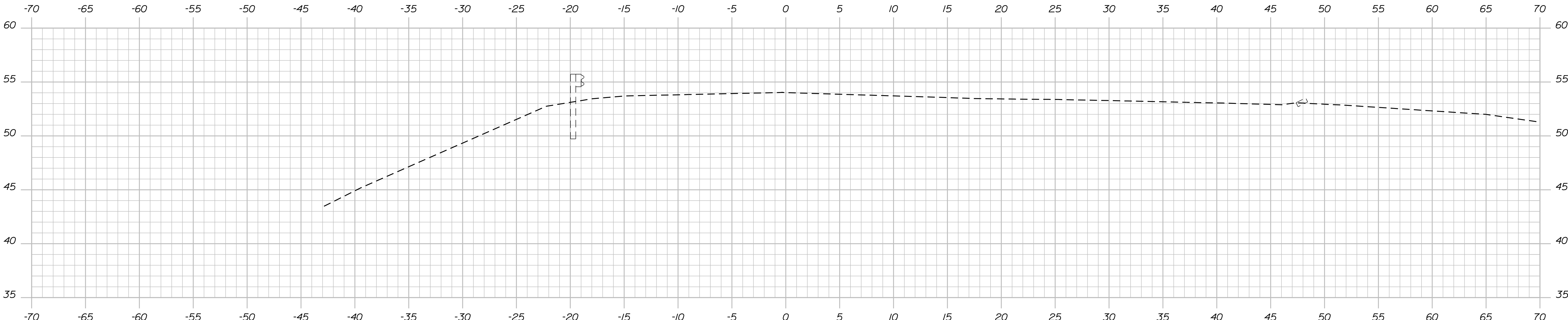
Username: Dana.Damren

Division: BRIDGE

Filename: ... \msta\020\_Xsect\_14+00.dgn



14+25.00



14+00.00

PROJ. MANAGER	J. Kirtledge	BY	DATE
DESIGN-DETAILED	D. Eaton	D. Damren	Oct. 2017
CHECKED-REVIEWED	WSP	WSP	Nov. 2017
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

CENTRE STREET CONNECTION U.S. ROUTE 1 SAGadahoc COUNTY	SIGNATURE
BATH	P.E. NUMBER
CROSS SECTIONS	DATE



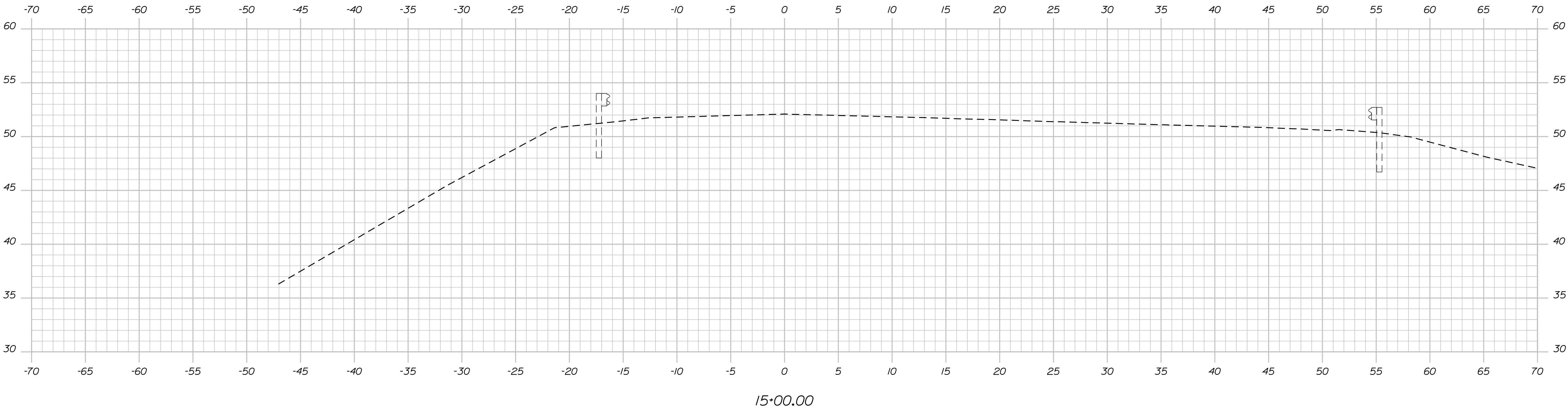
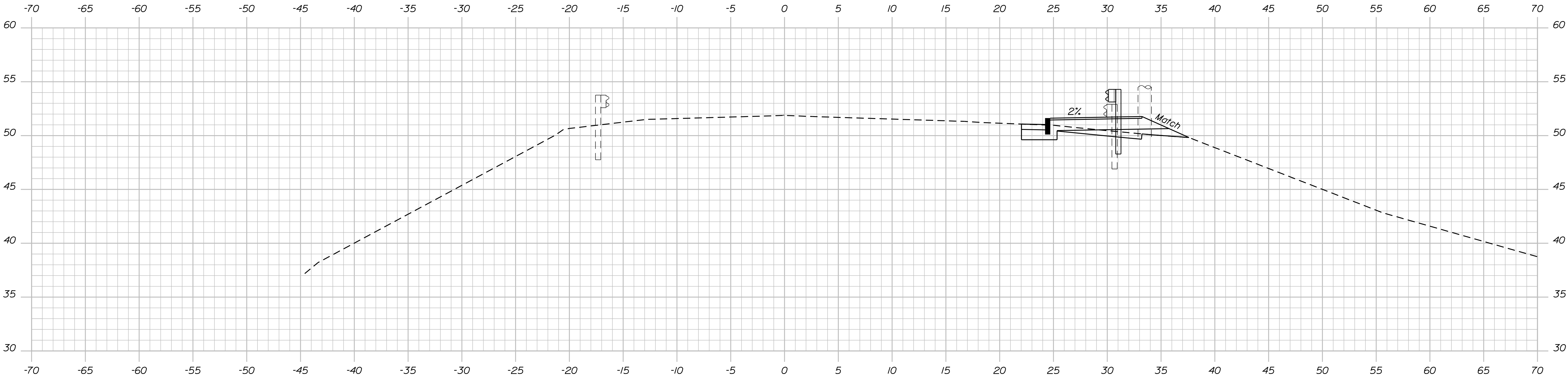


Date:11/28/2017

Username: Dana.Damren

Division: BRIDGE

Filename: ... \msta\022\_Xsect\_15+00.dgn



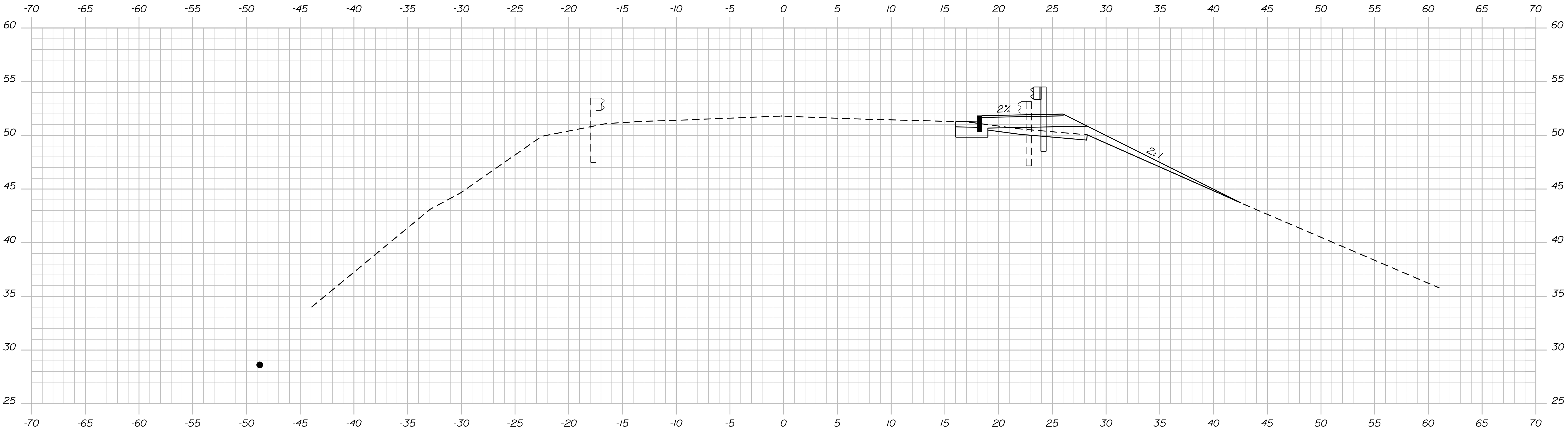
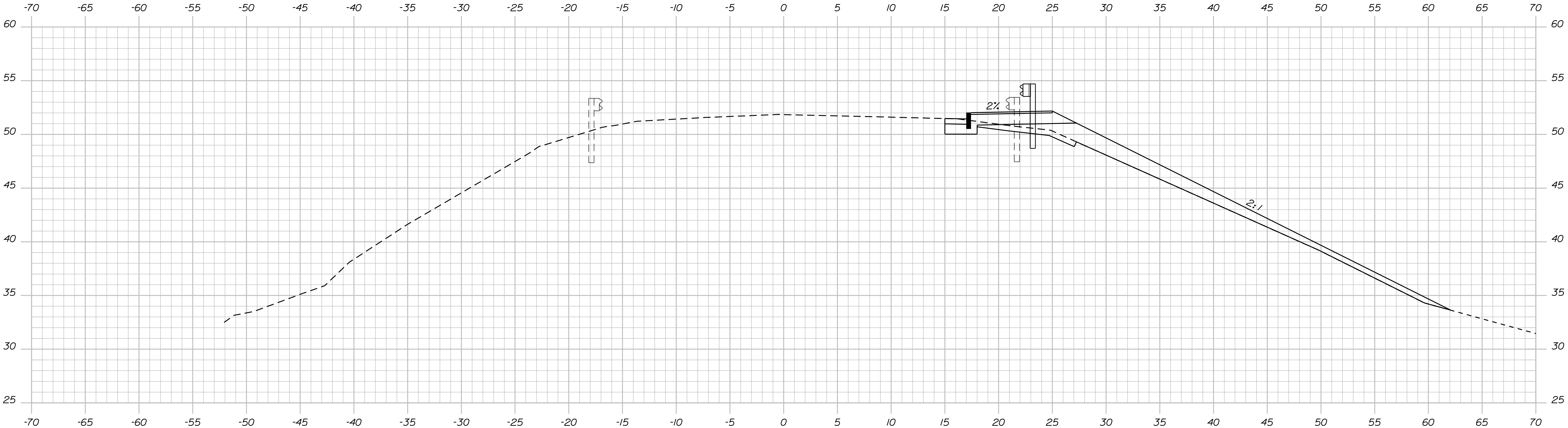
PROJ. MANAGER	BY	DATE
J. Kittredge	D. Damren	Oct. 2017
CHECKED-REVIEWED	D. Edon	Nov. 2017
DESIGNED-DETAILED	WSP	
DESIGNED-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

Username: Dana.Damren

Date:11/28/2017

Division: BRIDGE

Filename: ... \msta\023\_Xsect\_15+50.dgn



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE		DATE
	STP-1872(500)		Oct 2017
	WIN		Nov 2017
BRIDGE NO. 6142		P.E. NUMBER	
18725.00 & 18725.10		DATE	
BRIDGE PLANS			

CENTRE STREET CONNECTION	PROJ. MANAGER	J. Kittredge
U.S. ROUTE 1	CHECKED-REVIEWED	D. Edon
SAGADAHOC COUNTY	DESIGNED	WSP
BATH	DESIGNED-DETAILED	
	REVISIONS 1	
	REVISIONS 2	
	REVISIONS 3	
	REVISIONS 4	
CROSS SECTIONS	FIELD CHANGES	

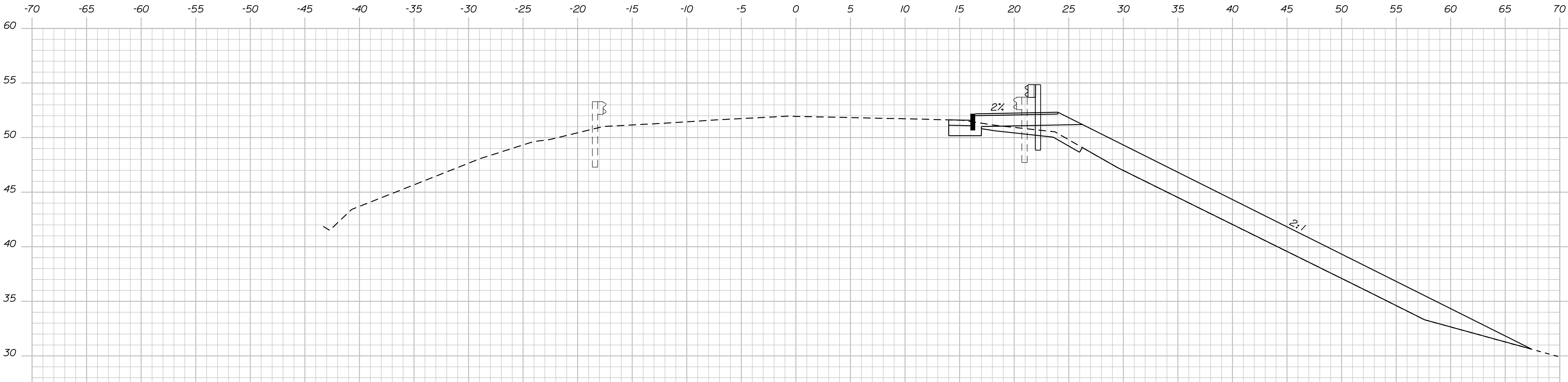
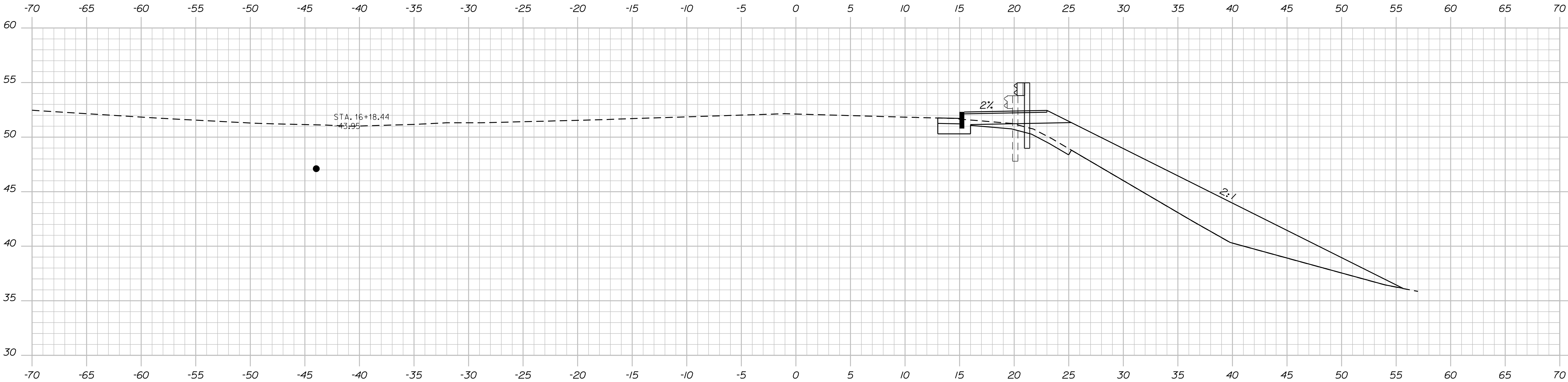
SHEET NUMBER
23
OF 53

Date:11/28/2017

Username: Dana.Damren

Division: BRIDGE

Filename: ... \msta\024\_Xsect\_16+00.dgn



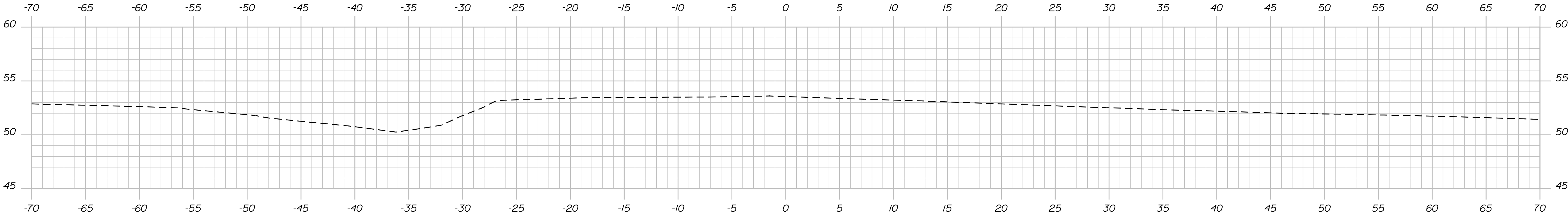
PROJ. MANAGER	BY	DATE
J. Kittredge	D. Damren	Oct. 2017
CHECKED-REVIEWED	WSP	Nov. 2017
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

Date:11/28/2017

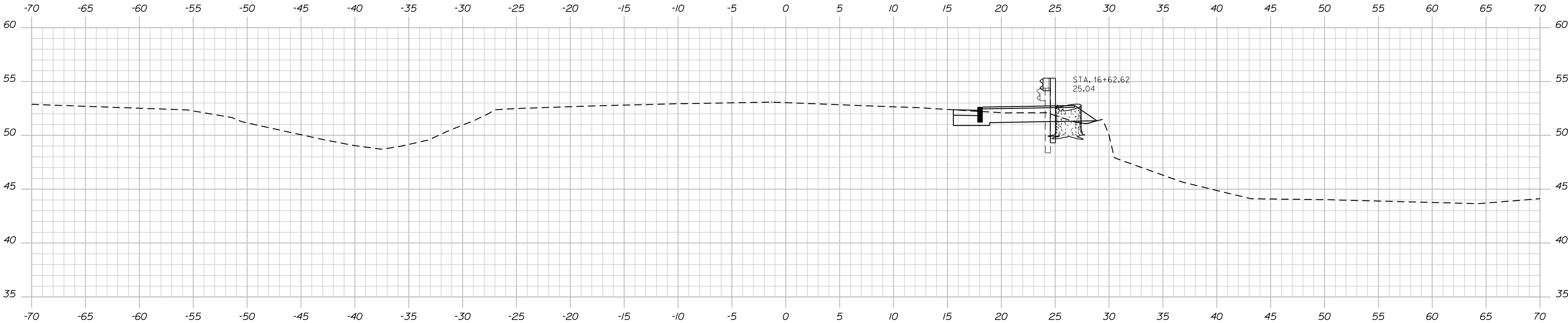
Username: Dana.Damren

Division: BRIDGE

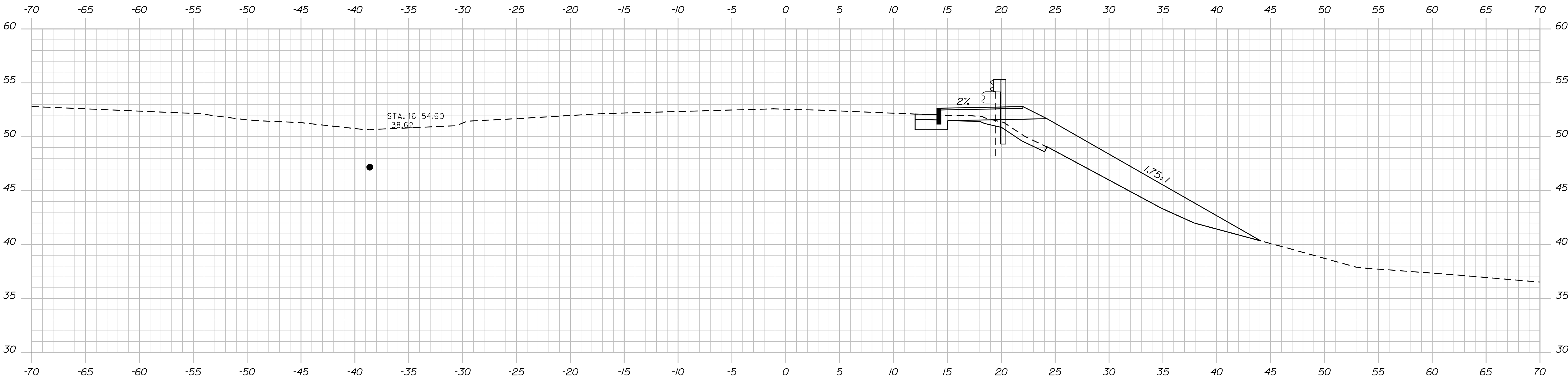
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17+00.00



16+75.00



16+50.00

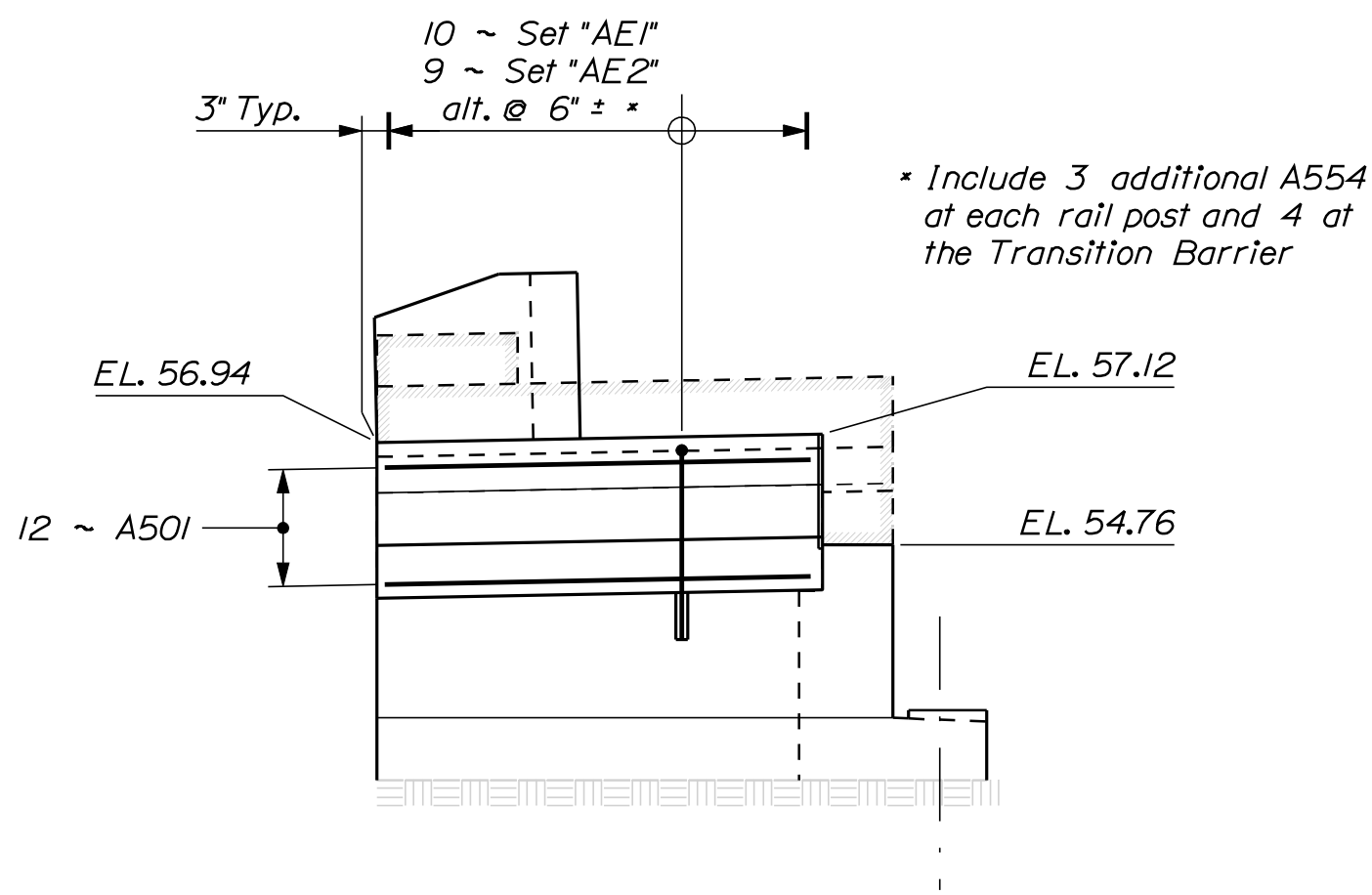
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
	STP-1872(500)	
	WIN	BRIDGE NO. 6142 18725.00 & 18725.10

PROJ. MANAGER J. Kittredge	BY D. Damren	DATE Oct. 2017 Nov. 2017	SIGNATURE
CHECKED-REVIEWED D. Edon	WSP		P.E. NUMBER
DESIGN-DETAILED WSP			DATE
DESIGN-DETAILED WSP			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

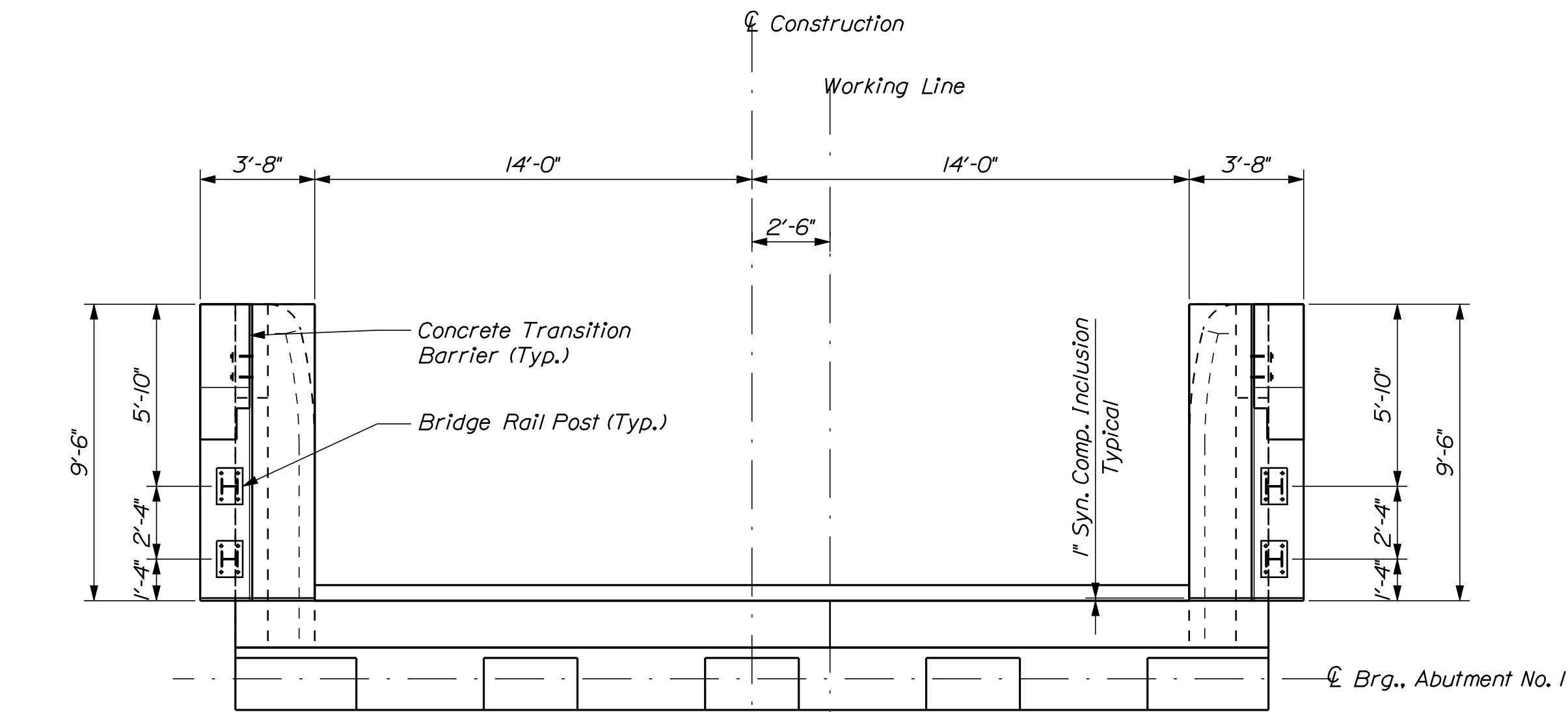
CENTRE STREET CONNECTION U.S. ROUTE 1 SAGADAHOC COUNTY	BATH	CROSS SECTIONS

SHEET NUMBER	
25	
OF 53	

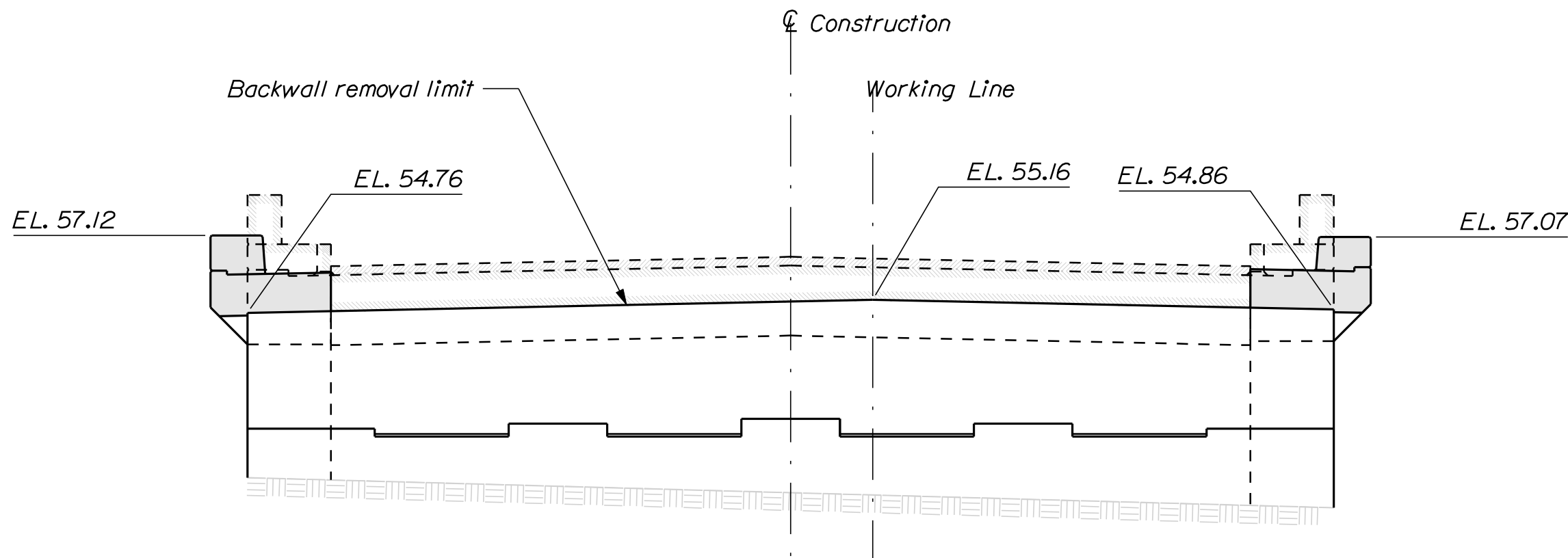




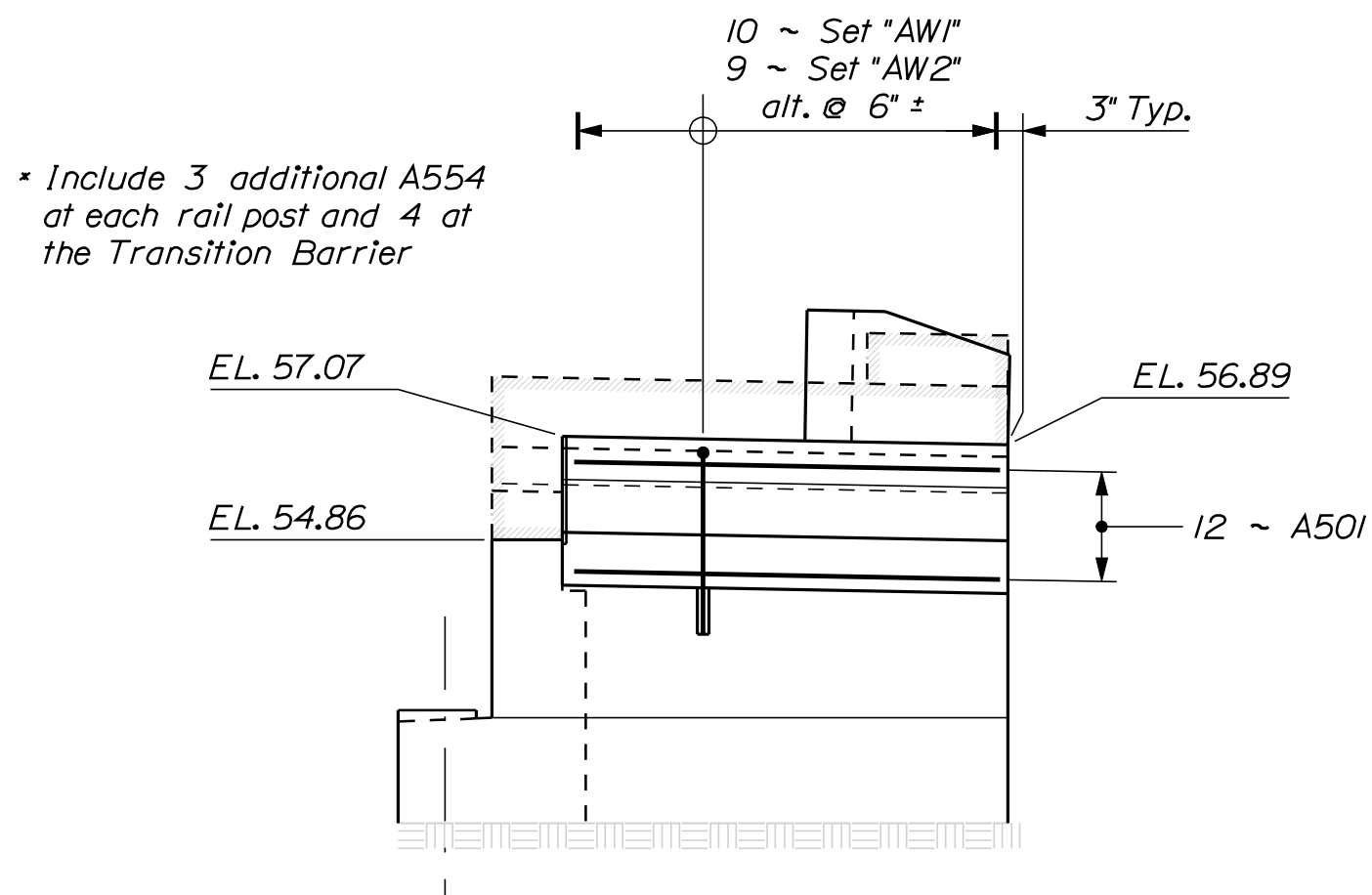
ABUTMENT NO. 1 EAST WINGWALL ELEVATION



ABUTMENT NO. 1 PLAN

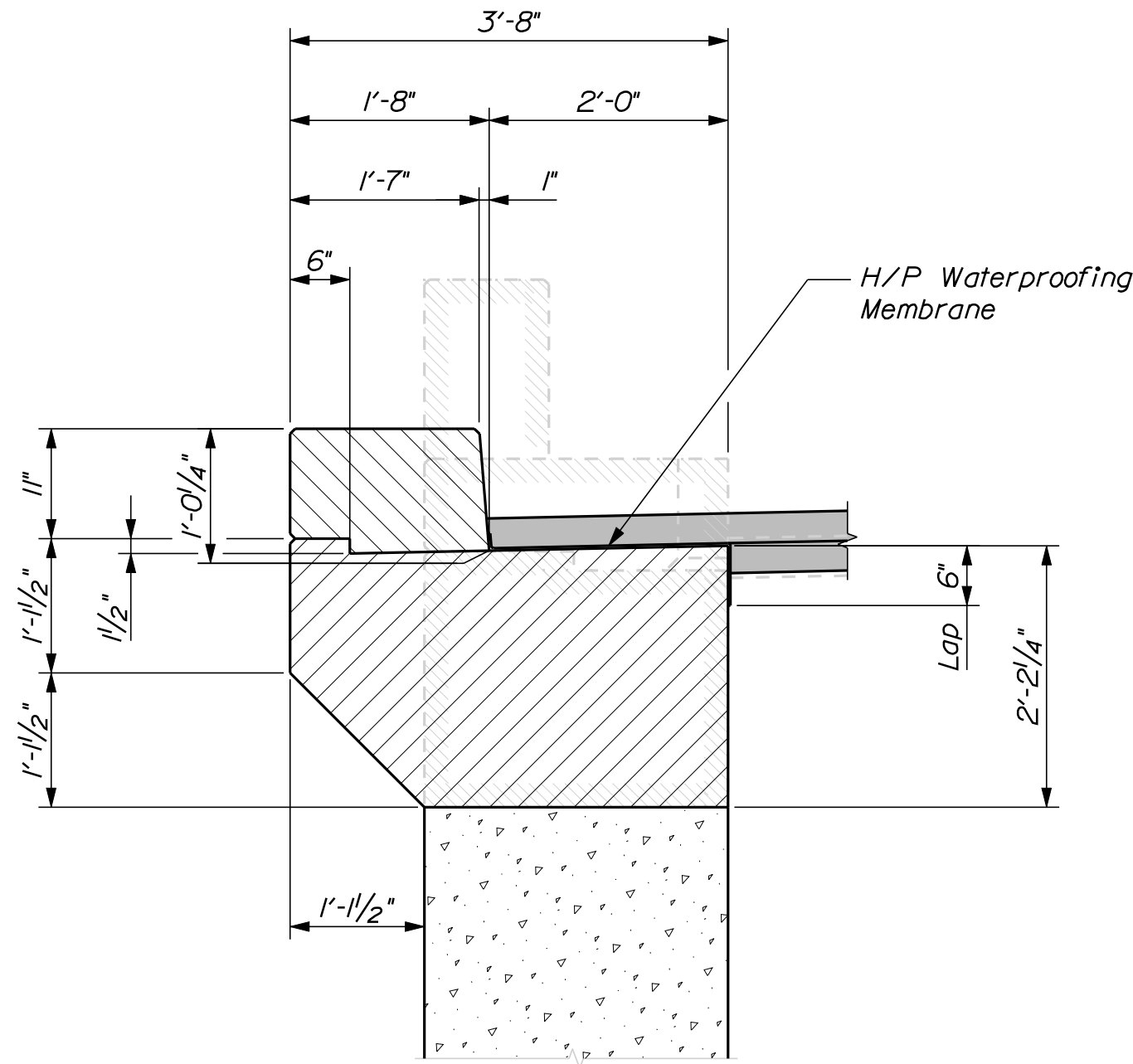


ABUTMENT NO. 1 ELEVATION

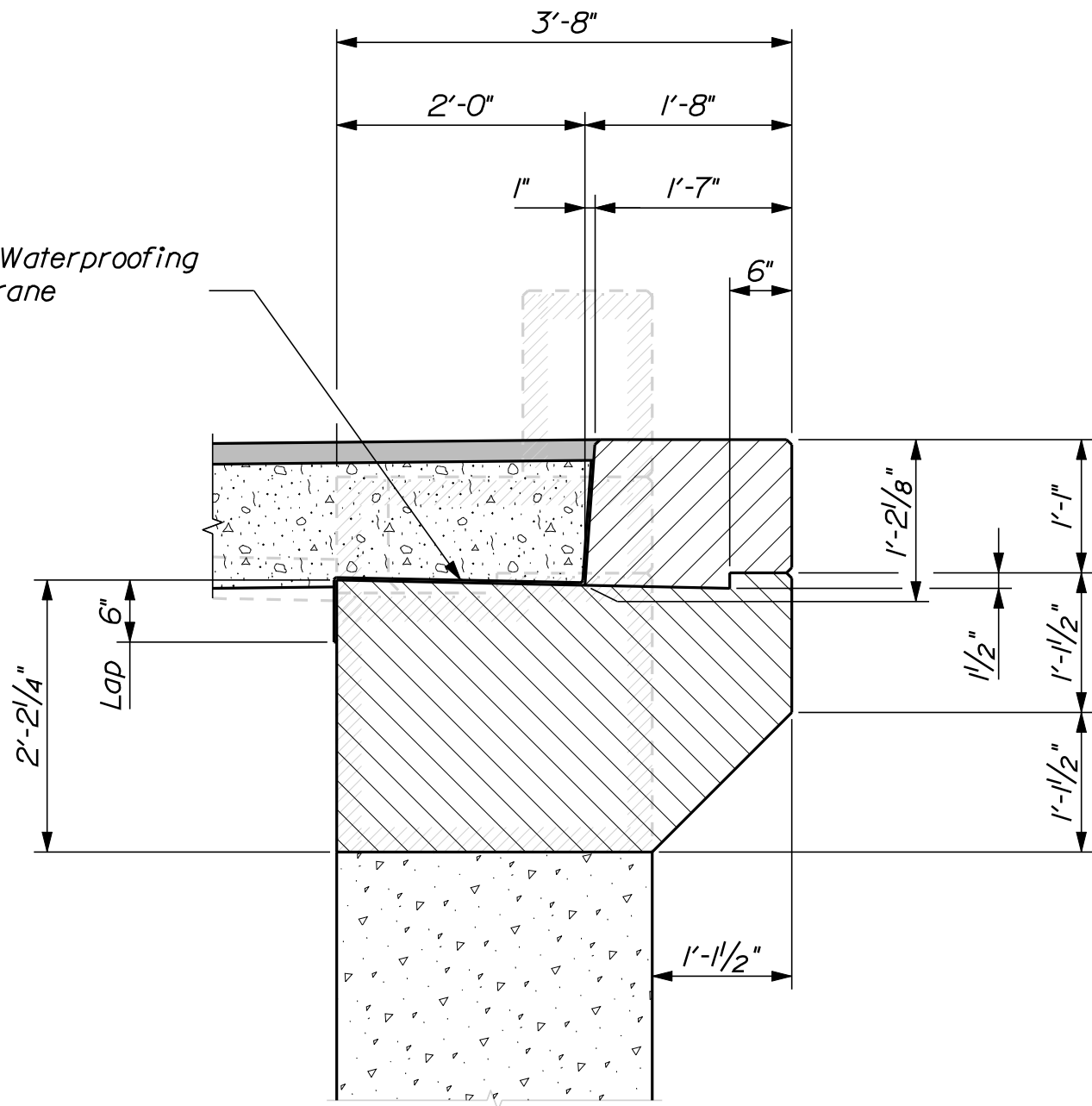


ABUTMENT NO. 1 WEST WINGWALL ELEVATION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION  STP-1872(500)  WIN BRIDGE NO. 6142 18725.00 & 18725.10 BRIDGE PLANS						
	PROJ. MANAGER	J. Kirtledge	BY	D. Damren	DATE	Oct. 2017
	CHECKED-REVIEWED	D. Eaton	WSP	WSP	SIGNATURE	
	DESIGNS DETAILLED				P.E. NUMBER	
CENTRE STREET CONNECTION U.S. ROUTE 1 SAGadahoc COUNTY  BATH  ABUTMENT NO. 1	REVISIONS 1				DATE	
	REVISIONS 2					
	REVISIONS 3					
	REVISIONS 4					
SHEET NUMBER						
26						
OF 53						



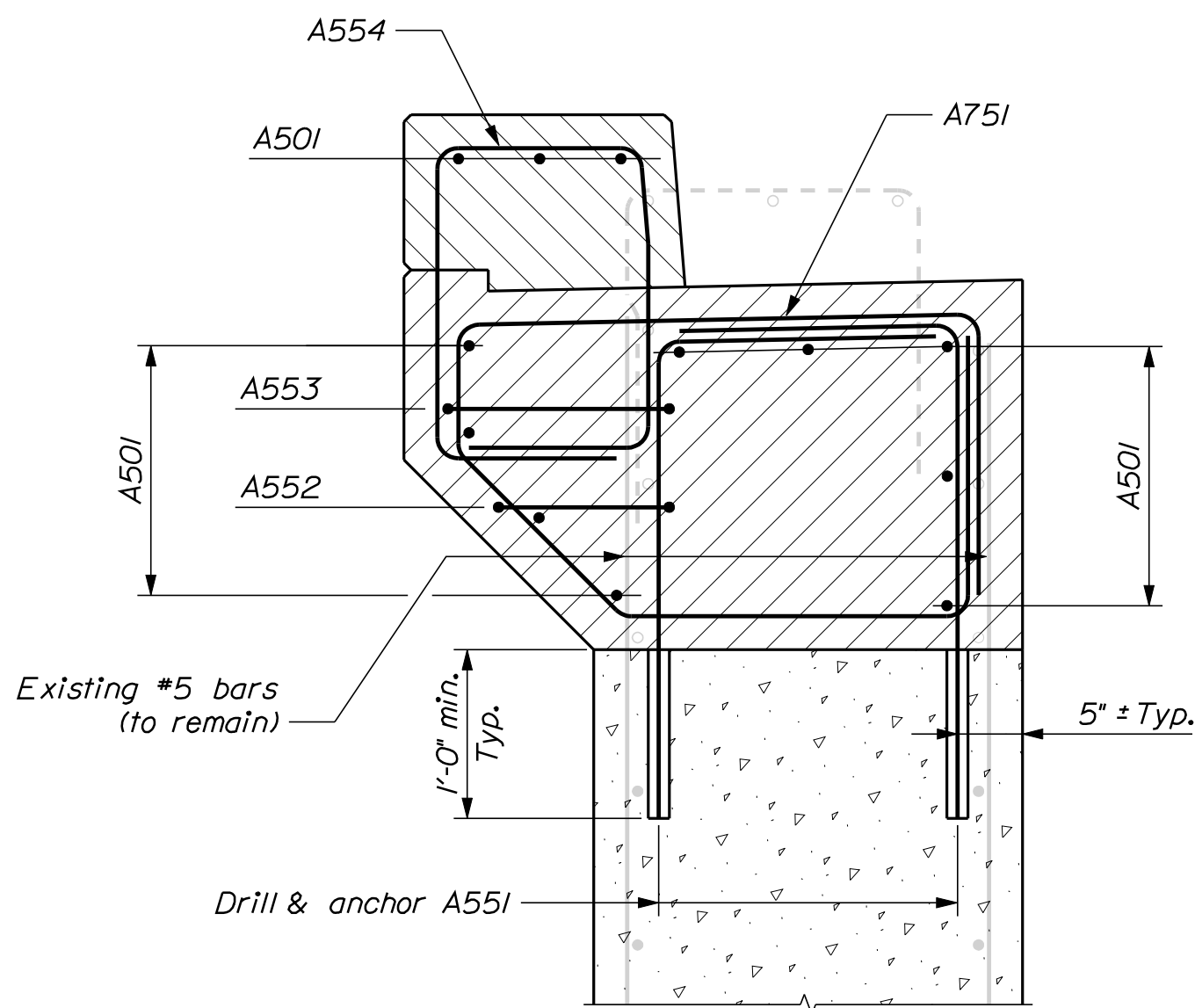
WEST WINGWALL SECTION  
Curb Side



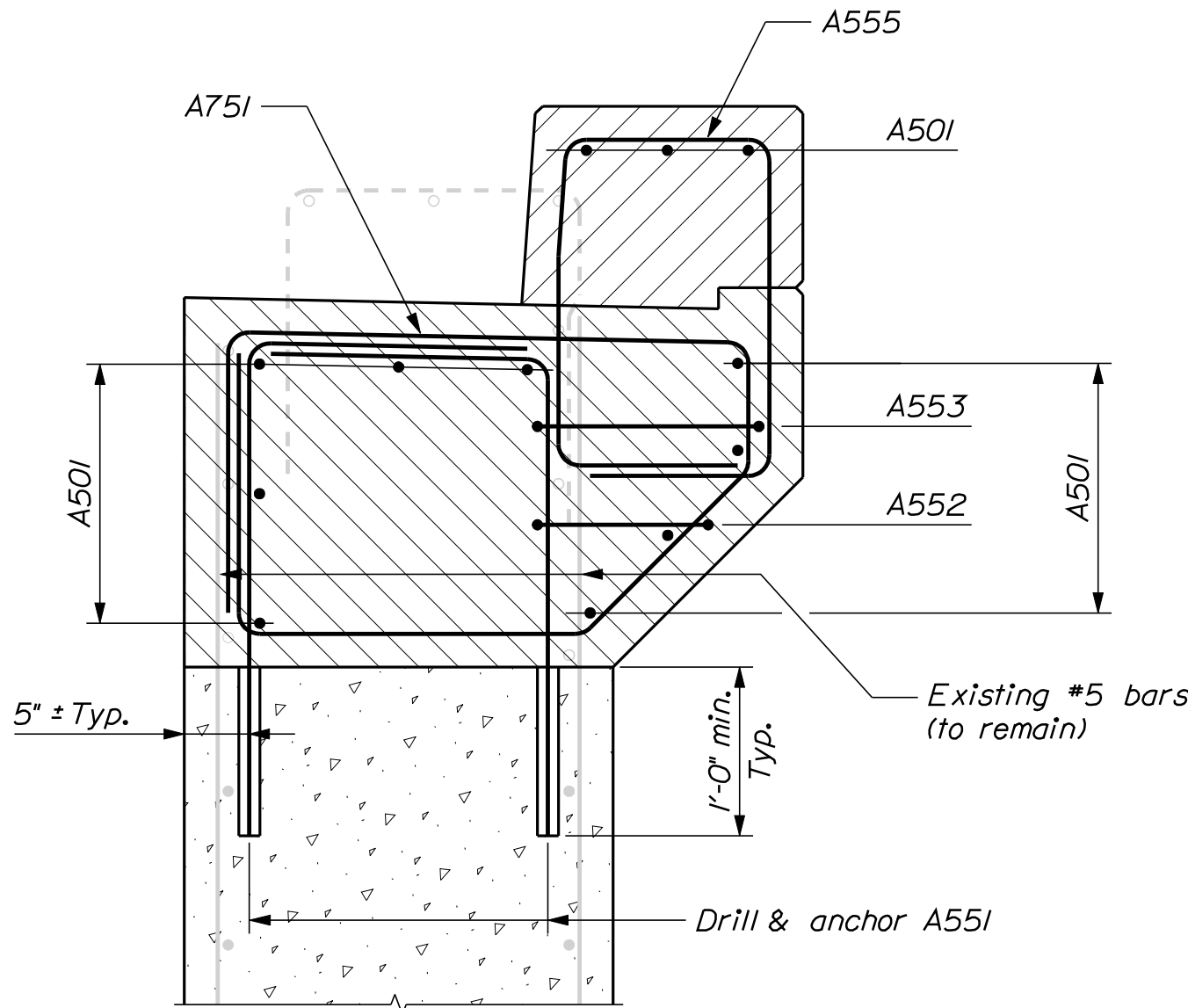
EAST WINGWALL SECTION  
Sidewalk Side

ABUTMENT NOTES

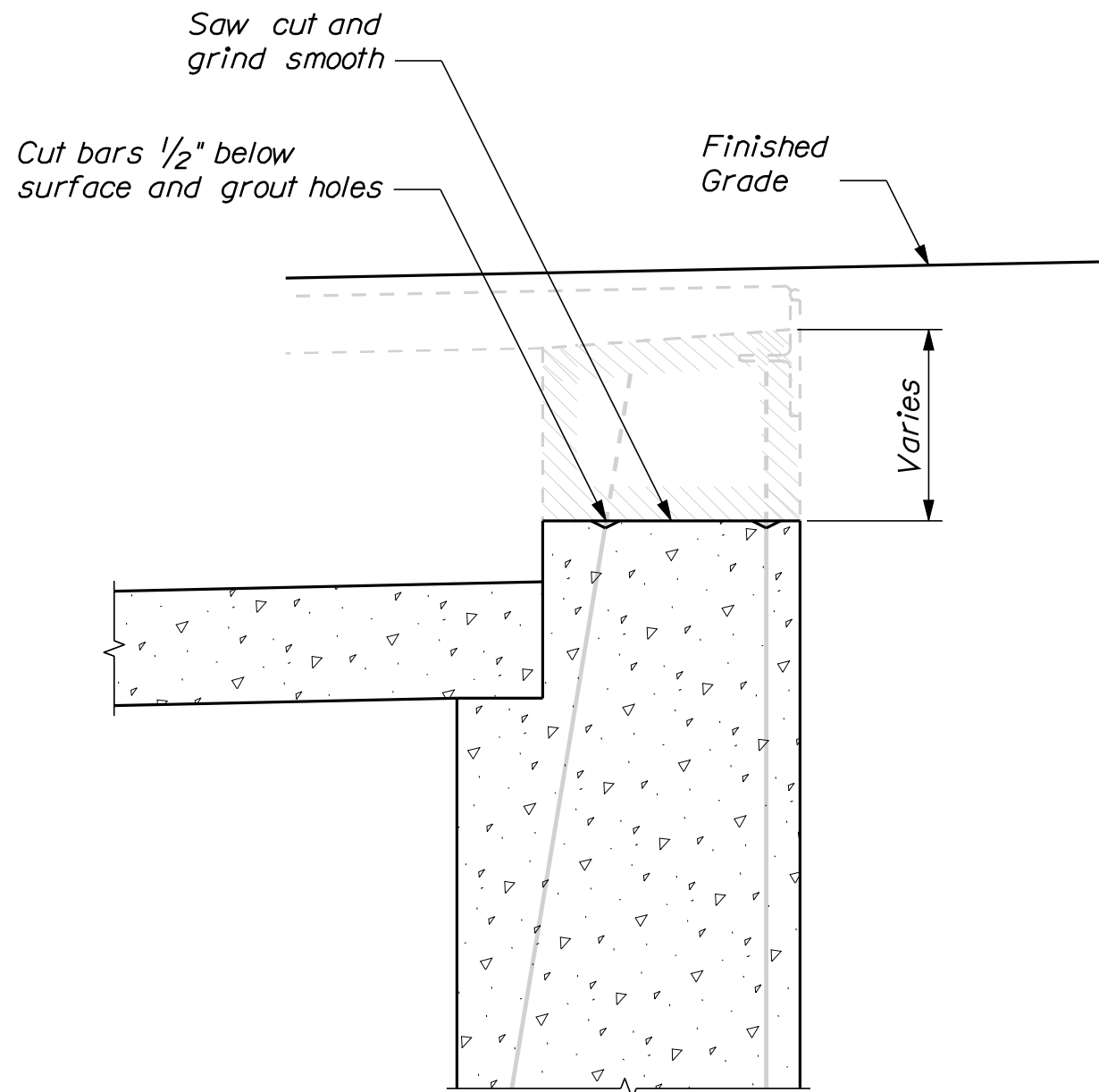
1. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
2. Form a one inch V-groove on the outside face of the wingwalls at the horizontal joint between the curb and corbel.
3. The Contractor shall install Transition Barrier vertical closed stirrups, as shown on the Transition Barrier sheets, prior to the placement of the curb concrete.



ABUTMENT NO. 1 WEST WINGWALL REINFORCING SECTION  
Set "AW1": 1 each ~ A554, A751  
Set "AW2": 2 ~ A551, 1 ea. ~ A552, A553, A751



ABUTMENT NO. 1 EAST WINGWALL REINFORCING SECTION  
Set "AE1": 1 each ~ A555, A751  
Set "AE2": 2 ~ A551, 1 ea. ~ A552, A553, A751



ABUTMENT NO. 1 BACKWALL SECTION

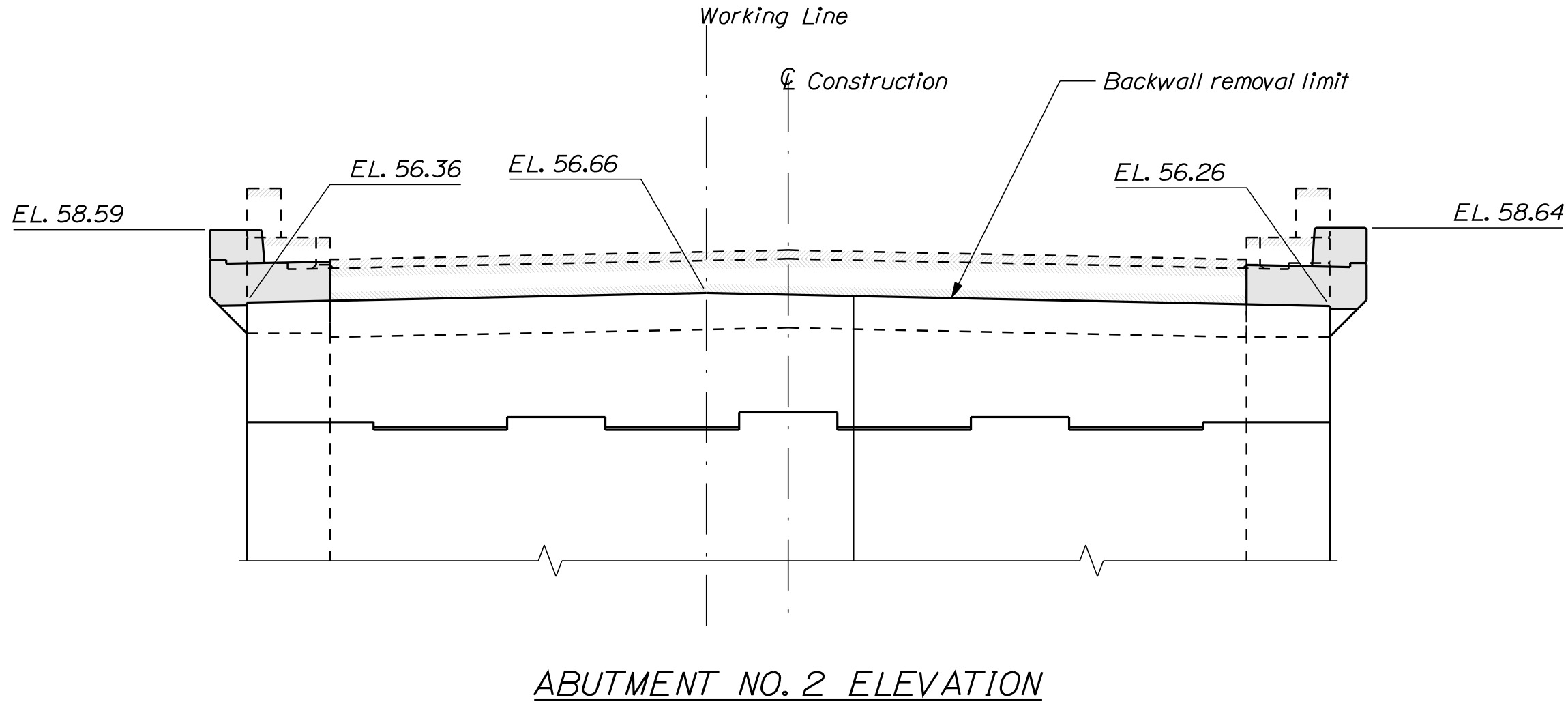
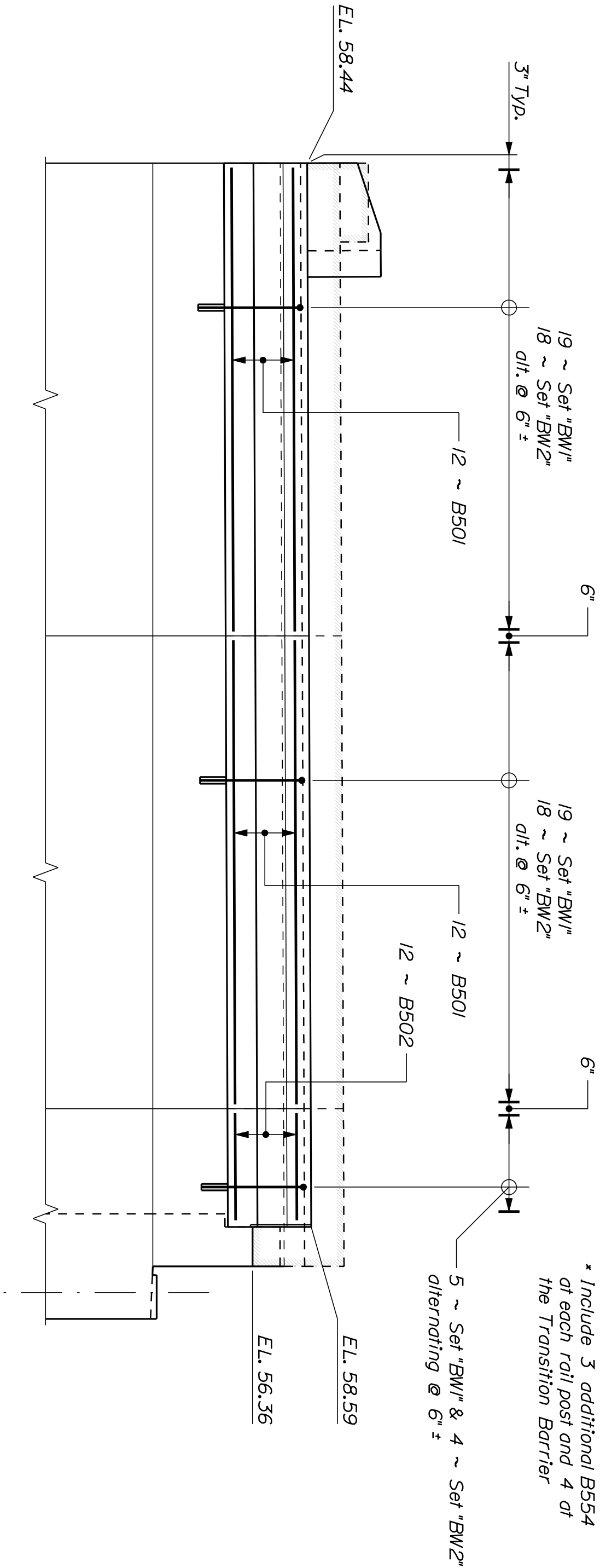
STATE OF MAINE					
DEPARTMENT OF TRANSPORTATION					
STP-1872(500)					
WIN					
BRIDGE NO. 6142		18725.00 & 18725.10		BRIDGE PLANS	
P.E. NUMBER		DATE			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

CENTRE STREET CONNECTION		BY		DATE	
U.S. ROUTE 1		D. Eaton		Oct. 2017	
CHECKED-REVIEWED		WSP		Nov. 2017	
DESIGN2-DETAILED2					
DESIGN3-DETAILED3					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

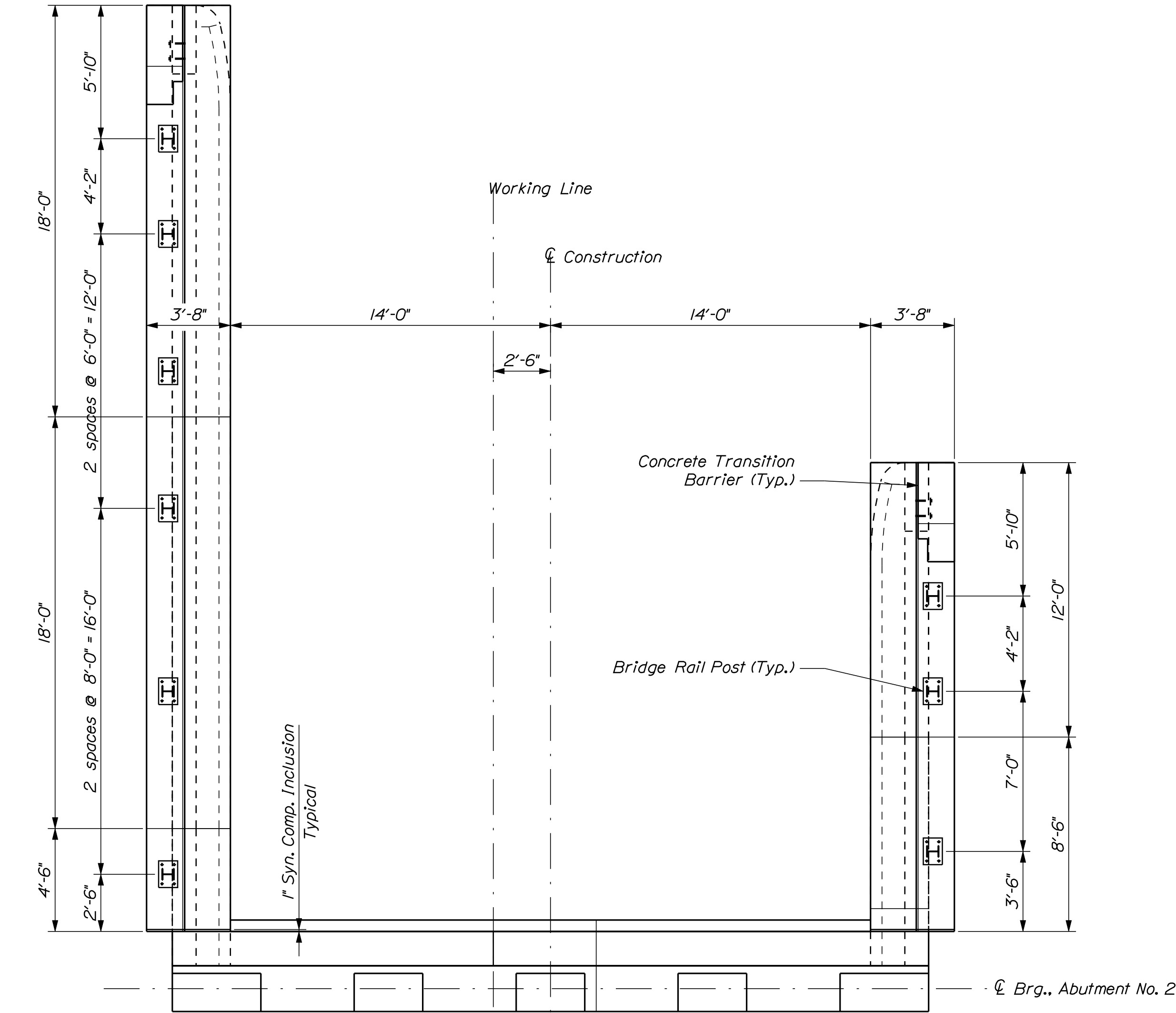
BATH		SAGADAHOC COUNTY	
ABUTMENT NO. 1 SECTIONS			

SHEET NUMBER	
27	
OF 53	

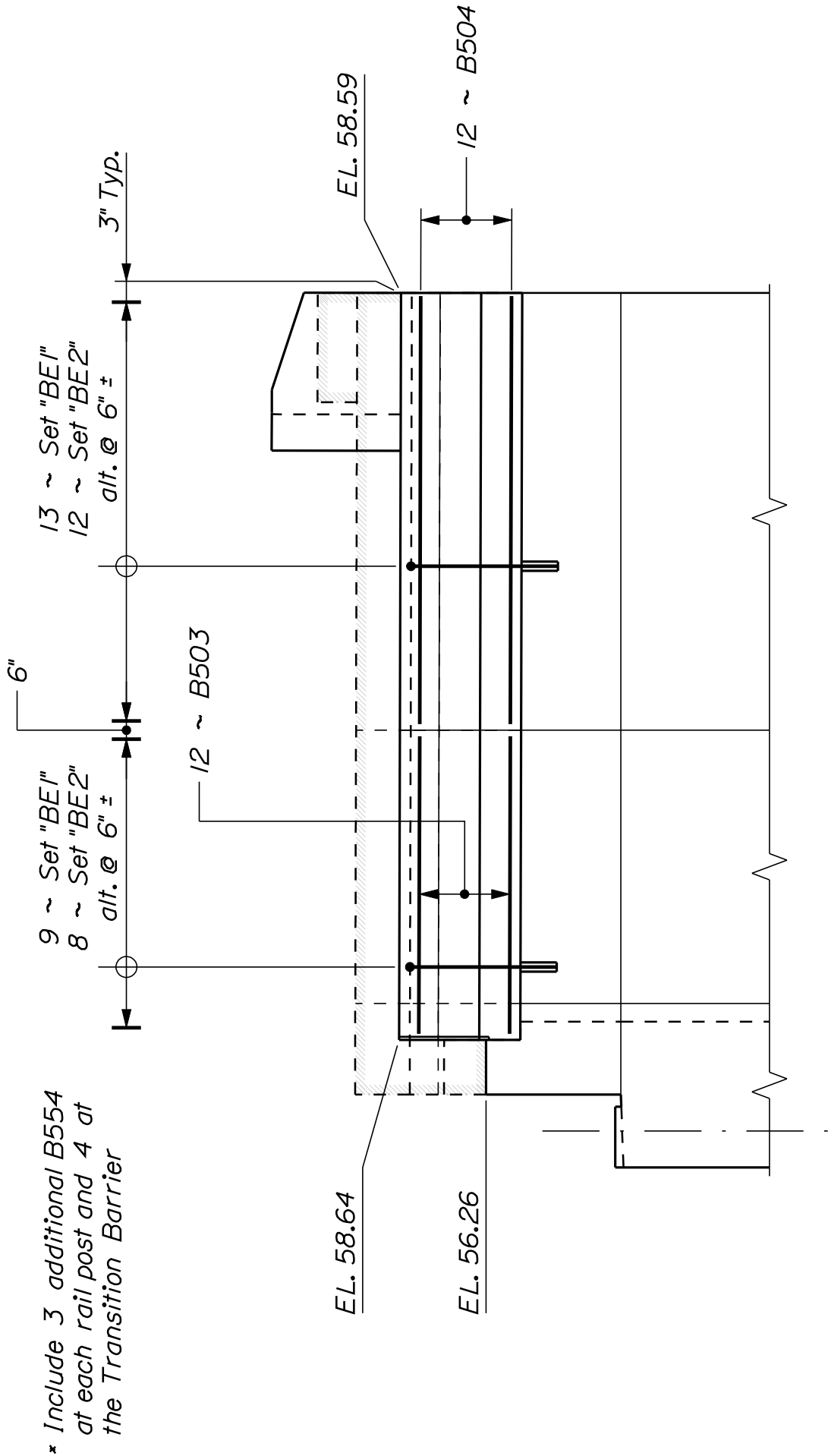
ABUTMENT NO. 2 WEST WINGWALL ELEVATION



ABUTMENT NO. 2 PLAN

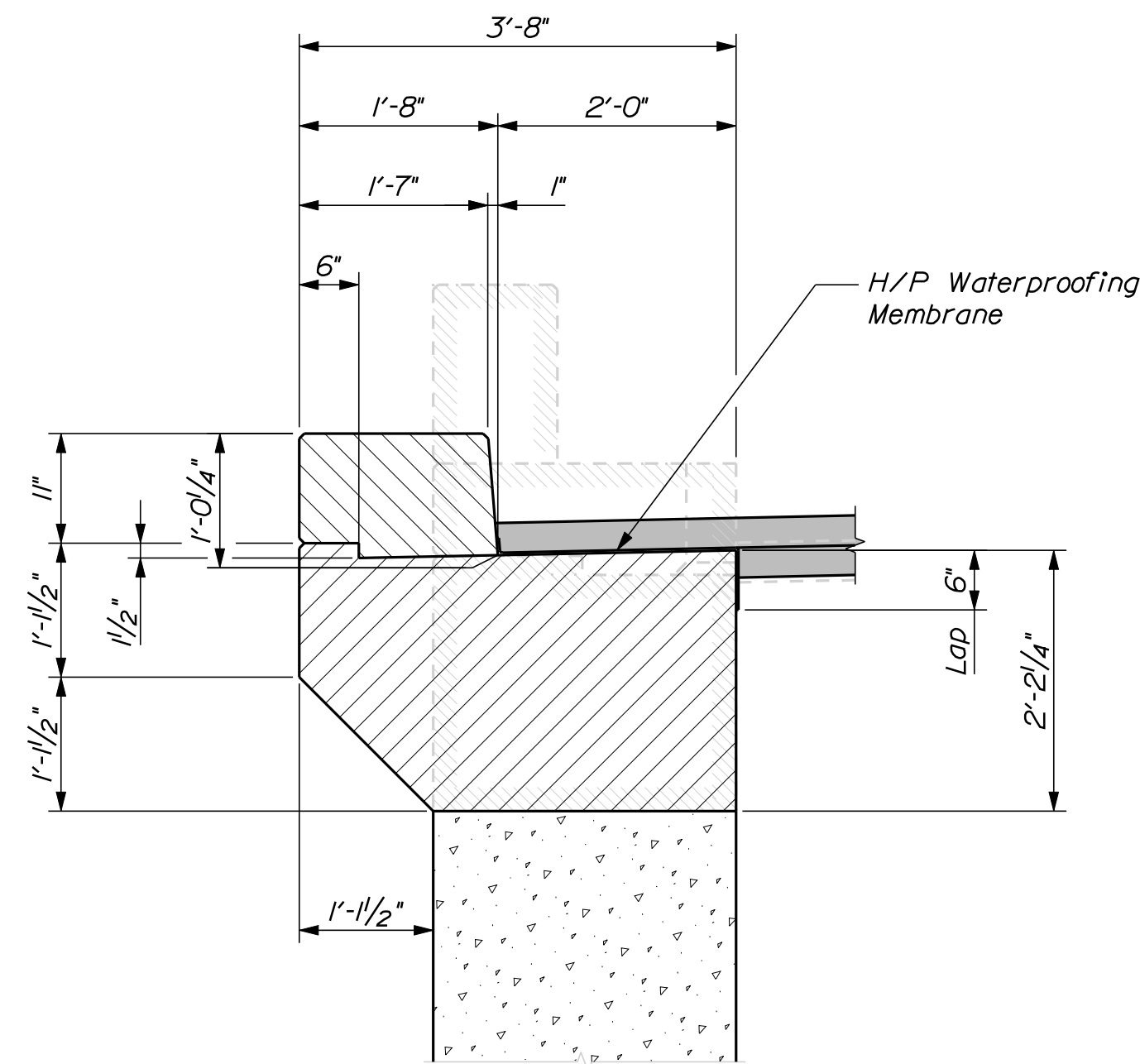


ABUTMENT NO. 2 ELEVATION

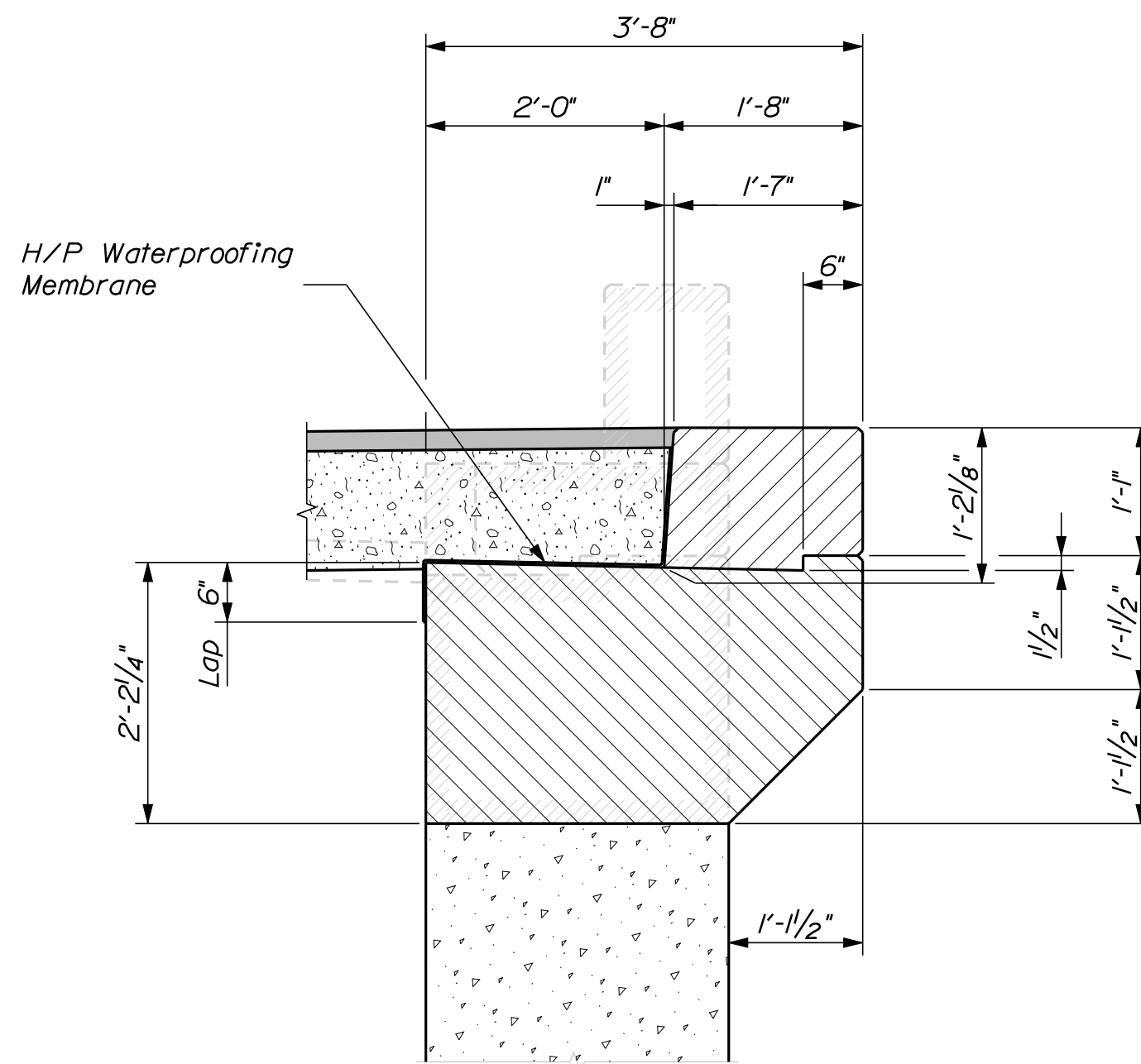


ABUTMENT NO. 2 EAST WINGWALL ELEVATION

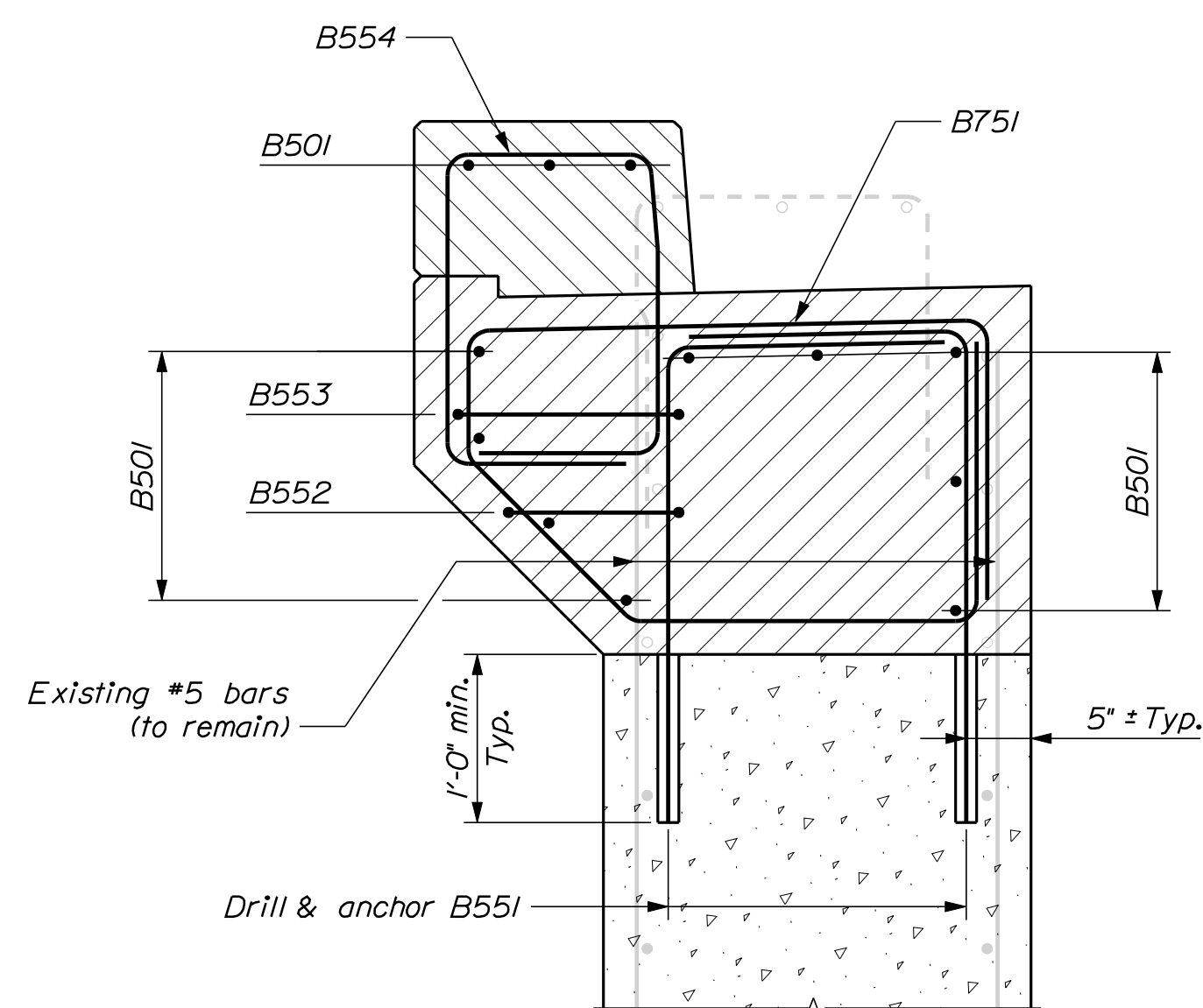
CENTRE STREET CONNECTION U.S. ROUTE 1 BATH SAGadahoc COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	STP-1872(500)			
	BRIDGE NO. 6142 18725.00 & 18725.10 WIN			
ABUTMENT NO. 2	SHEET NUMBER		BRIDGE PLANS	
	28			
	OF 53			
		PROJ. MANAGER	BY	DATE
		J. Kirtledge	D. Damren	Oct. 2017
		CHECKED-DETAILED	WSP	Nov. 2017
		DESIGNS DETAILLED		
		REVISIONS 1		
		REVISIONS 2		
		REVISIONS 3		
		REVISIONS 4		
		FIELD CHANGES		
		SIGNATURE		
		P.E. NUMBER		
		DATE		



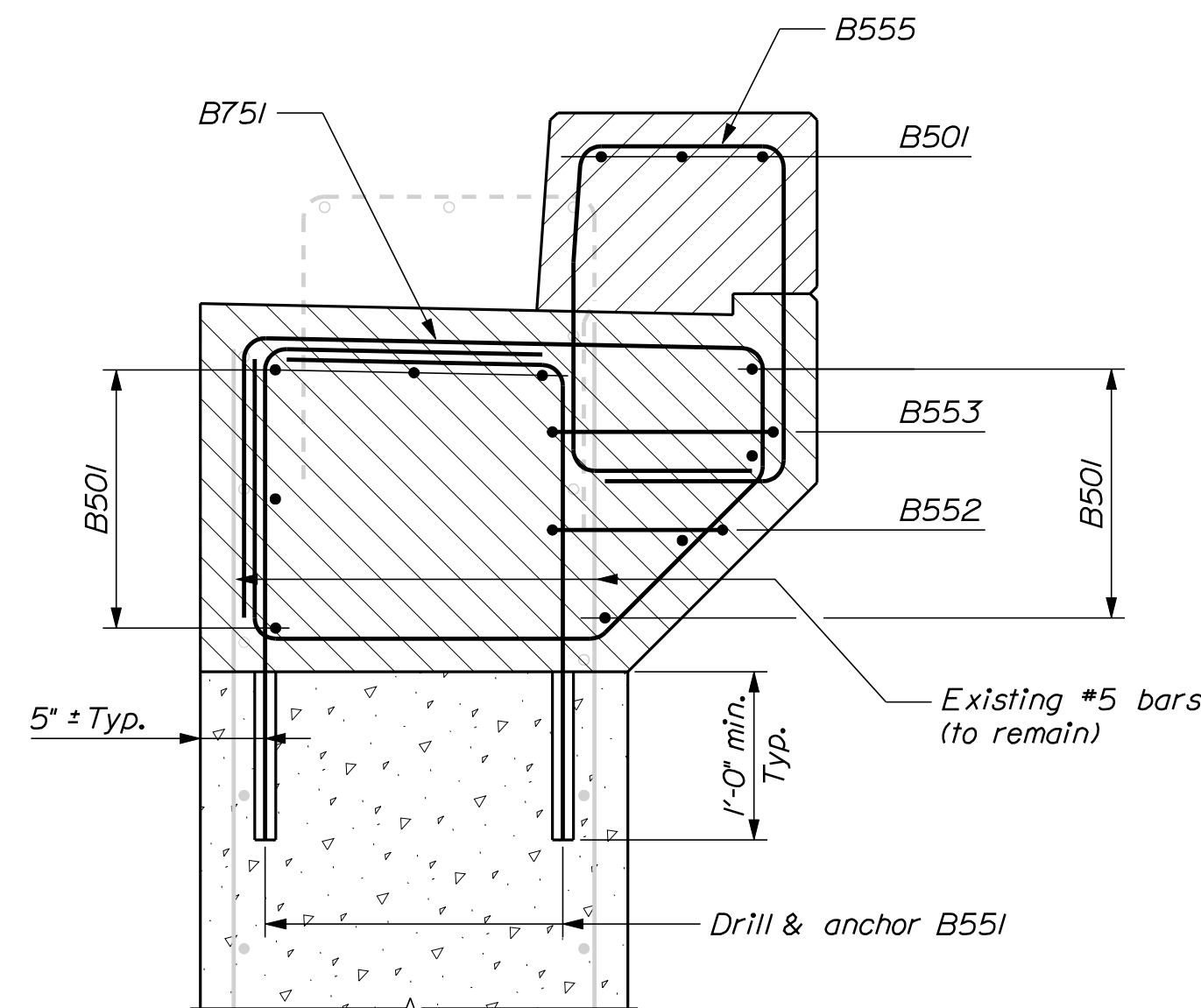
WEST WINGWALL SECTION  
Curb Side



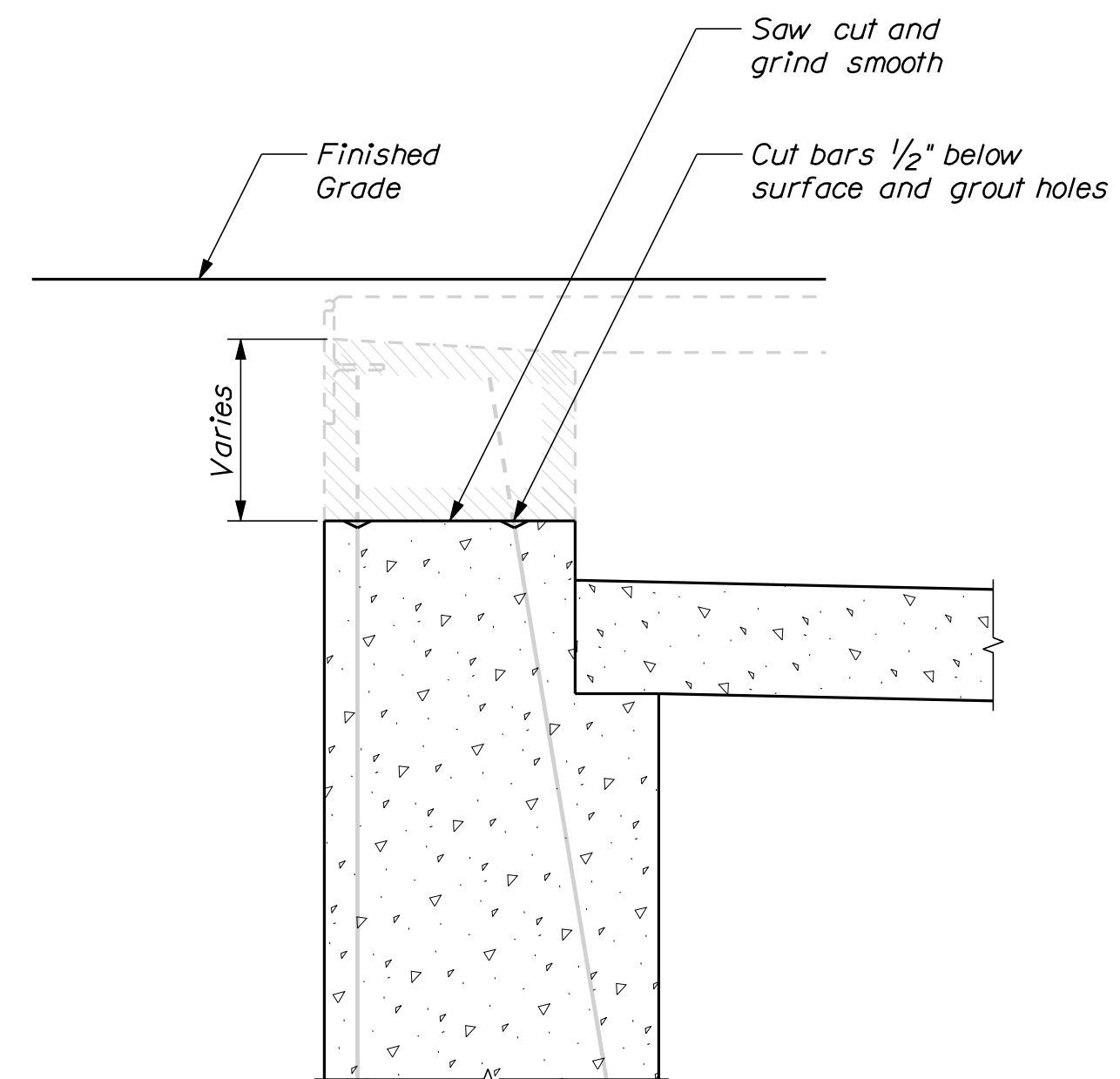
EAST WINGWALL SECTION  
Sidewalk Side



ABUTMENT NO. 2 WEST WINGWALL REINFORCING SECTION  
 Set "BW1": 1 each ~ B554, B751  
 Set "BW2": 2 ~ B551, 1 ea. ~ B552, B553, B751

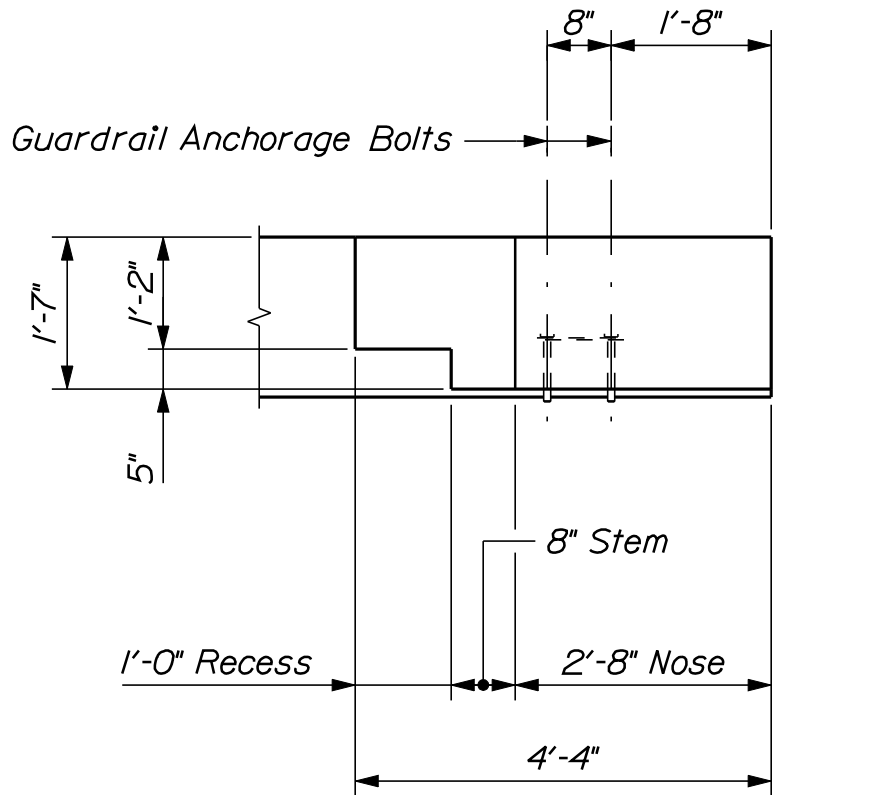


ABUTMENT NO. 2 EAST WINGWALL REINFORCING SECTION  
 Set "BE1": 1 each ~ B555, B751  
 Set "BE2": 2 ~ B551, 1 ea. ~ B552, B553, B751

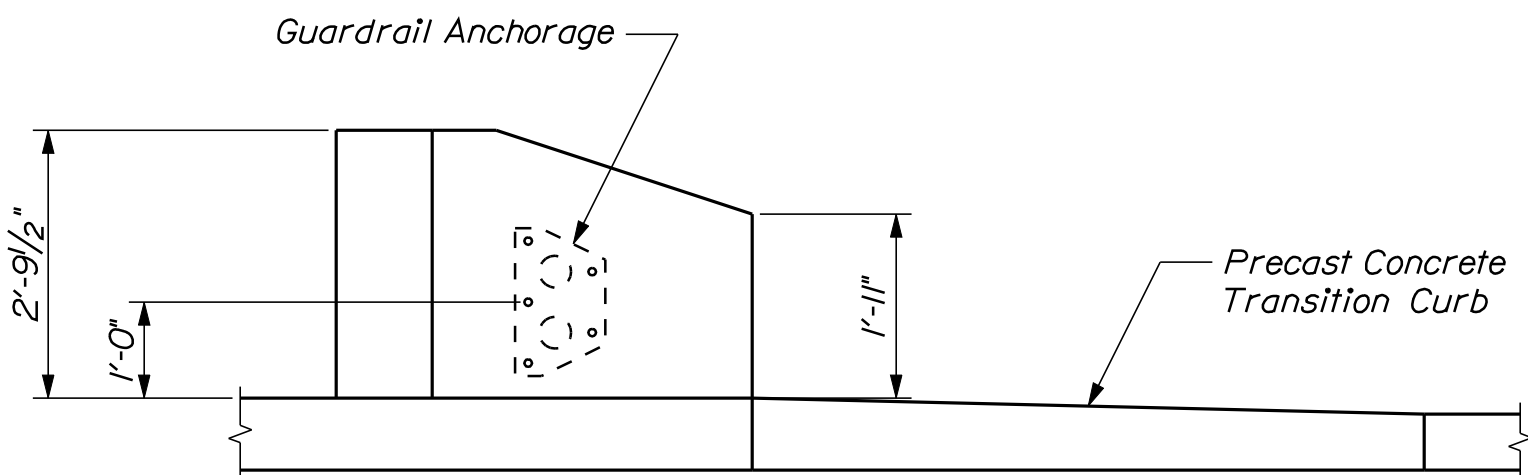


ABUTMENT NO. 2 BACKWALL SECTION

29 OF 53		SHEET NUMBER	CENTRE STREET CONNECTION U.S. ROUTE 1 BATH SAGADAHOC COUNTY		PROJ. MANAGER	J. Kiltridge	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
			DESIGN-DETAILED	D. Eaton	O. Damren	Oct. 2017				
29 OF 53		SHEET NUMBER	ABUTMENT NO. 2 SECTIONS		CHECKED-REVIEWED	WSP	WSP	Nov. 2017	SIGNATURE	STP-1872(500)
					DESIGN2-DETAILED2					
					DESIGN3-DETAILED3				P.E. NUMBER	
					REVISIONS 1					
29 OF 53		SHEET NUMBER	ABUTMENT NO. 2 SECTIONS		REVISIONS 2					WIN BRIDGE NO. 6142 18725.00 & 18725.10 BRIDGE PLANS
					REVISIONS 3					
					REVISIONS 4					
					FIELD CHANGES				DATE	



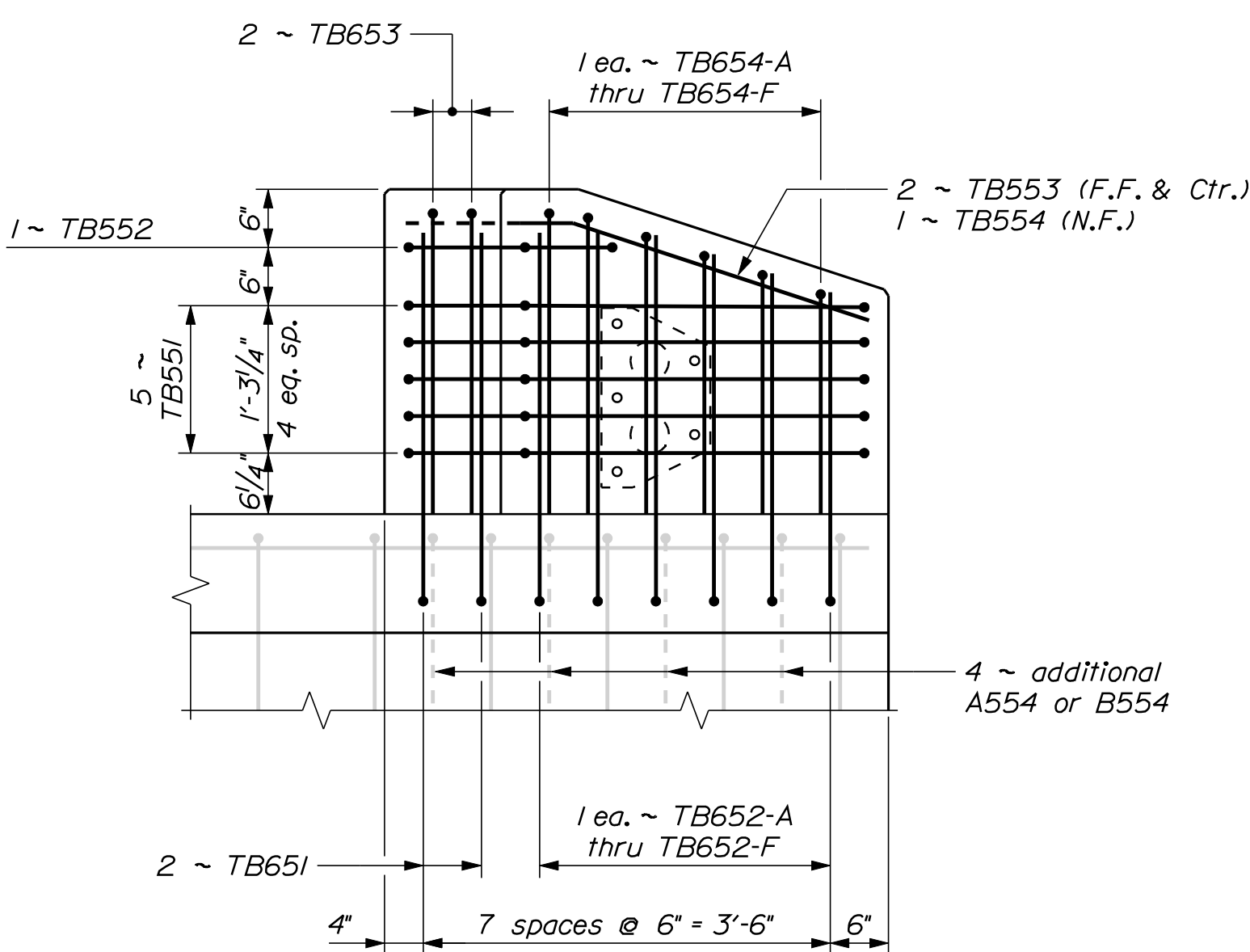
TRANSITION BARRIER PLAN



CURB TRANSITION BARRIER ELEVATION

LEGEND

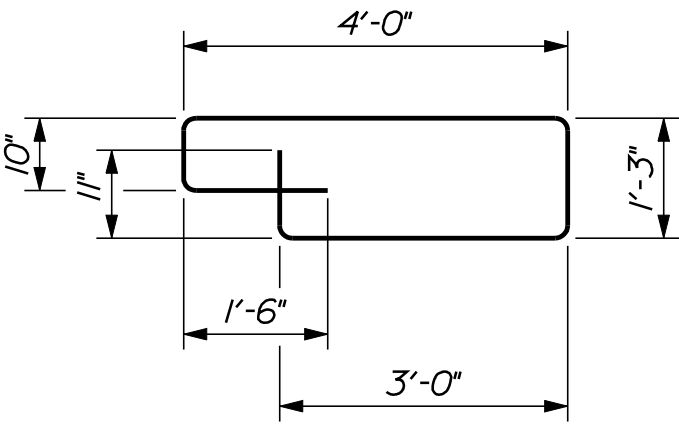
N.F. = Near Face  
F.F. = Far Face  
E.F. = Each Face  
Ctr. = Center



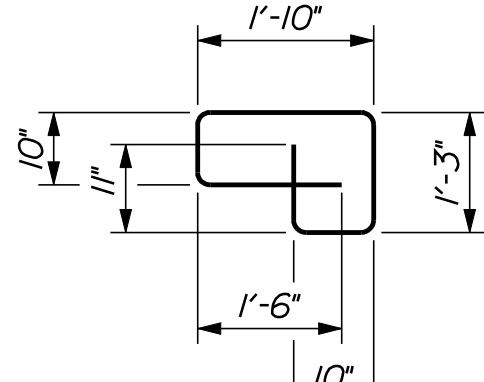
CURB TRANSITION BARRIER REINFORCING

REINFORCING STEEL SCHEDULE			
	Qty.	Dim. "v"	Length
TB551	10	--	11'-6"
TB552	2	--	7'-2"
TB553	4	--	4'-1"
TB54	2	--	3'-1"
TB651	2	--	7'-2"
TB652-A	4	3'-2 1/2"	7'-7"
TB652-B	2	3'-2 1/2"	7'-7"
TB652-C	2	3'-2"	7'-6"
TB652-D	2	3'-0"	7'-2"
TB652-E	2	2'-10"	6'-10"
TB652-F	2	2'-8"	6'-6"
TB653	4	--	6'-0"
TB654-A	2	2'-7 1/2"	6'-5"
TB654-B	2	2'-6 1/2"	6'-3"
TB654-C	2	2'-4 1/2"	5'-11"
TB654-D	2	2'-2 1/2"	5'-7"
TB654-E	2	2'-0 1/2"	5'-3"
TB654-F	2	1'-10 1/2"	4'-11"

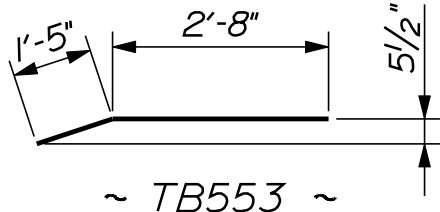
Notes:  
The first digit following the letters of the mark indicates the size of the reinforcing bar. (TB551 = bar size #5.)  
All dimensions are out - to - out of bar.



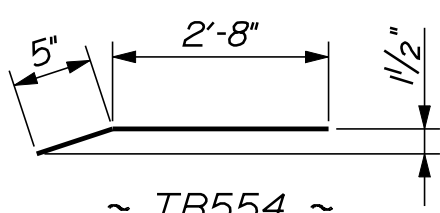
~ TB551 ~



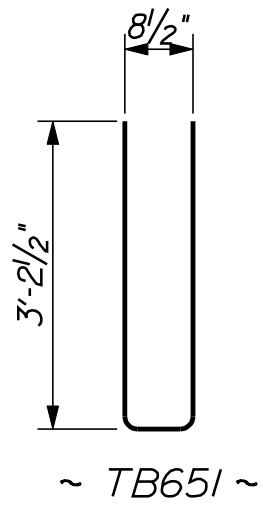
~ TB552 ~



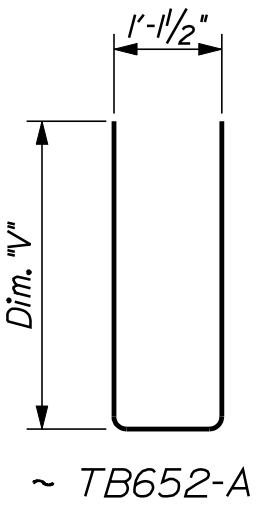
~ TB553 ~



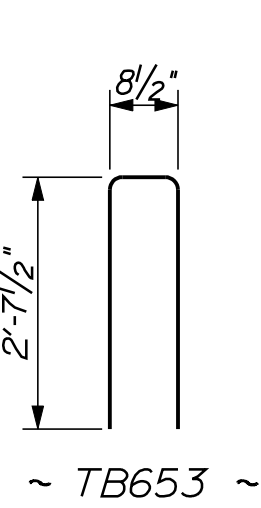
~ TB554 ~



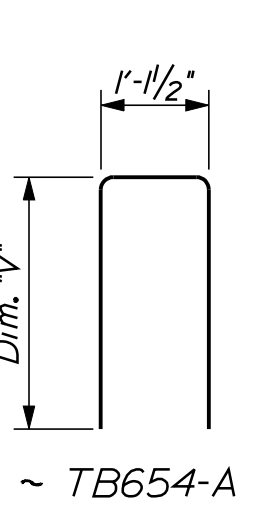
~ TB651 ~



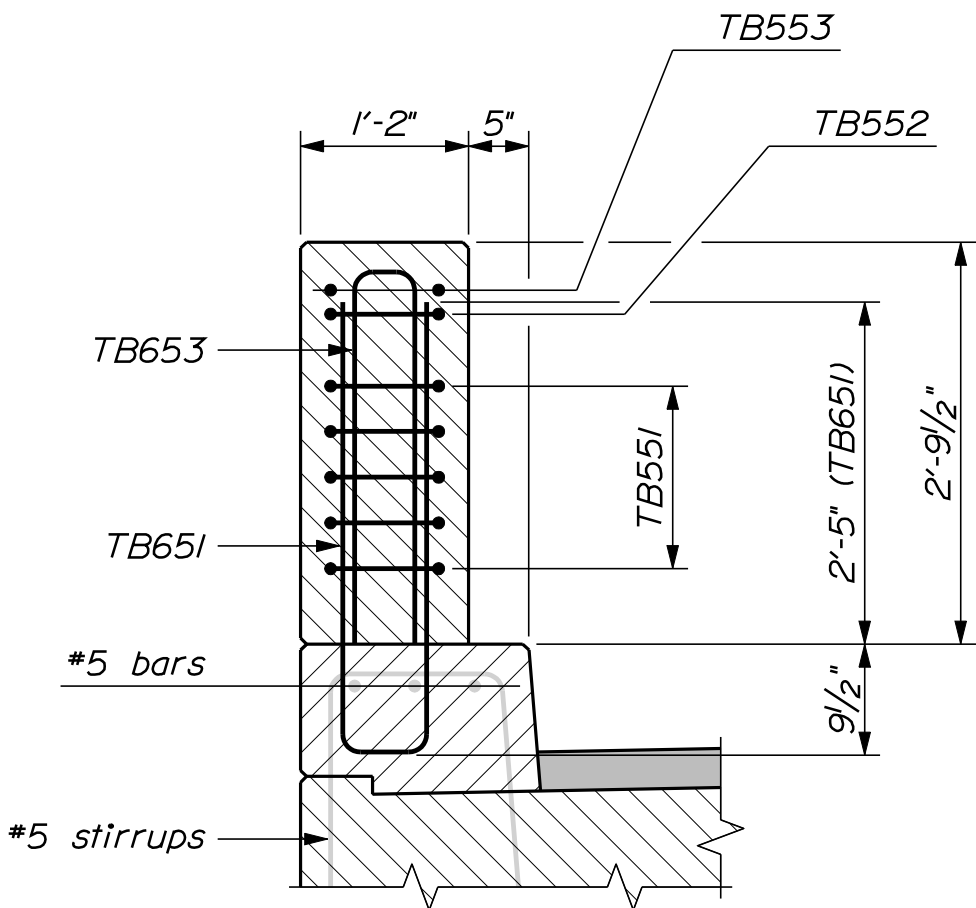
~ TB652-A thru TB652-F ~



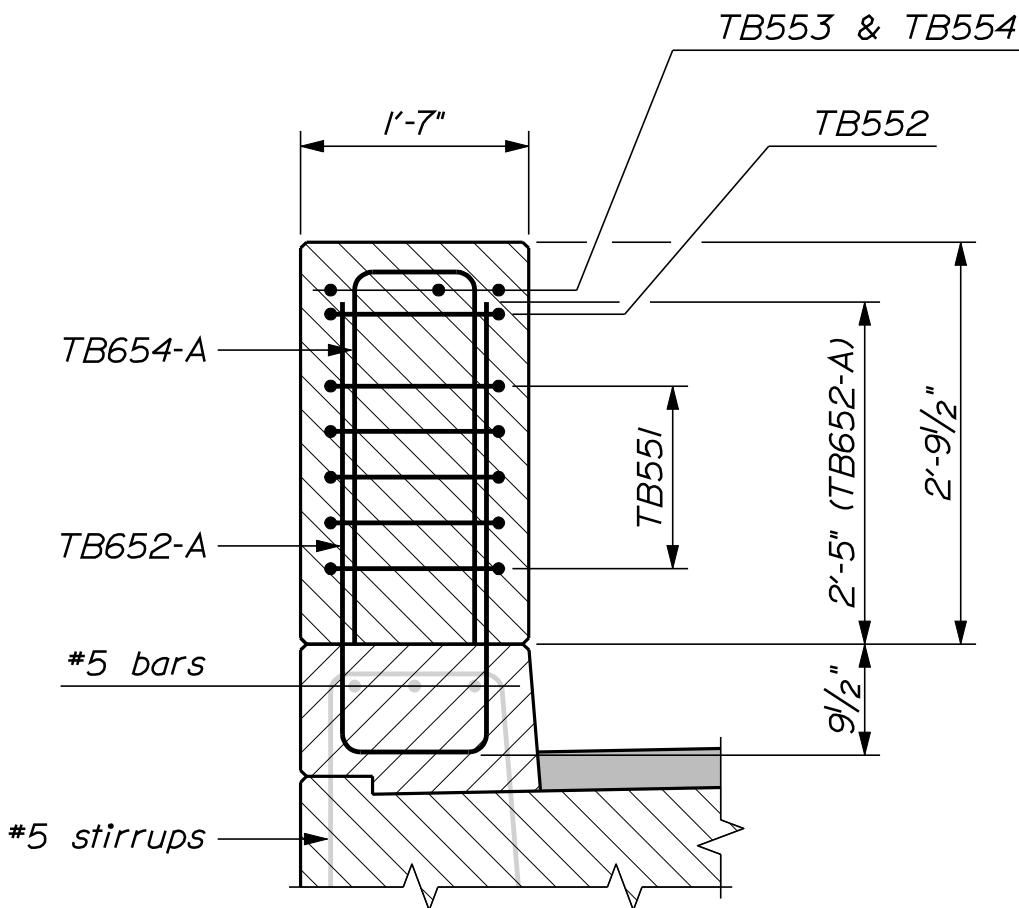
~ TB653 ~



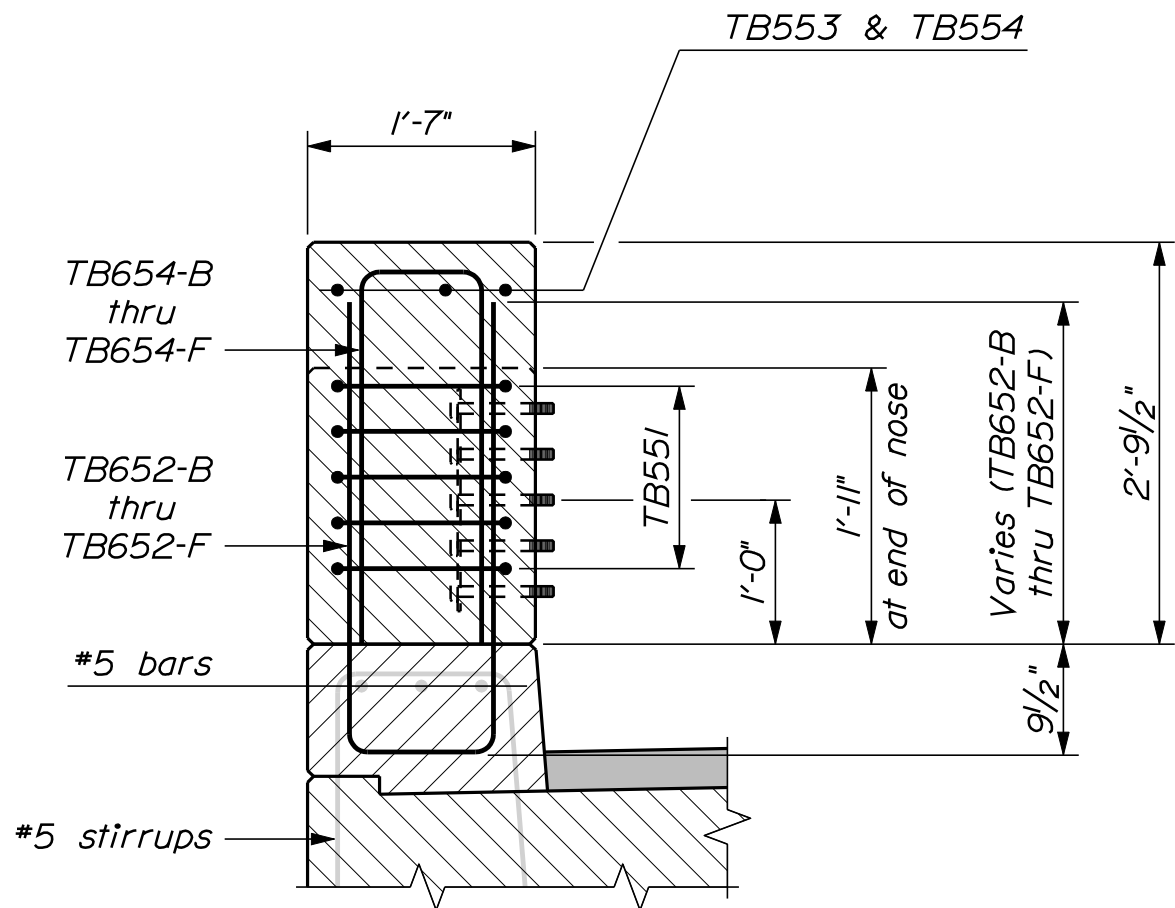
~ TB654-A thru TB654-F ~



CURB TRANSITION BARRIER SECTION  
Section thru Recess



CURB TRANSITION BARRIER SECTION  
Section thru Stem



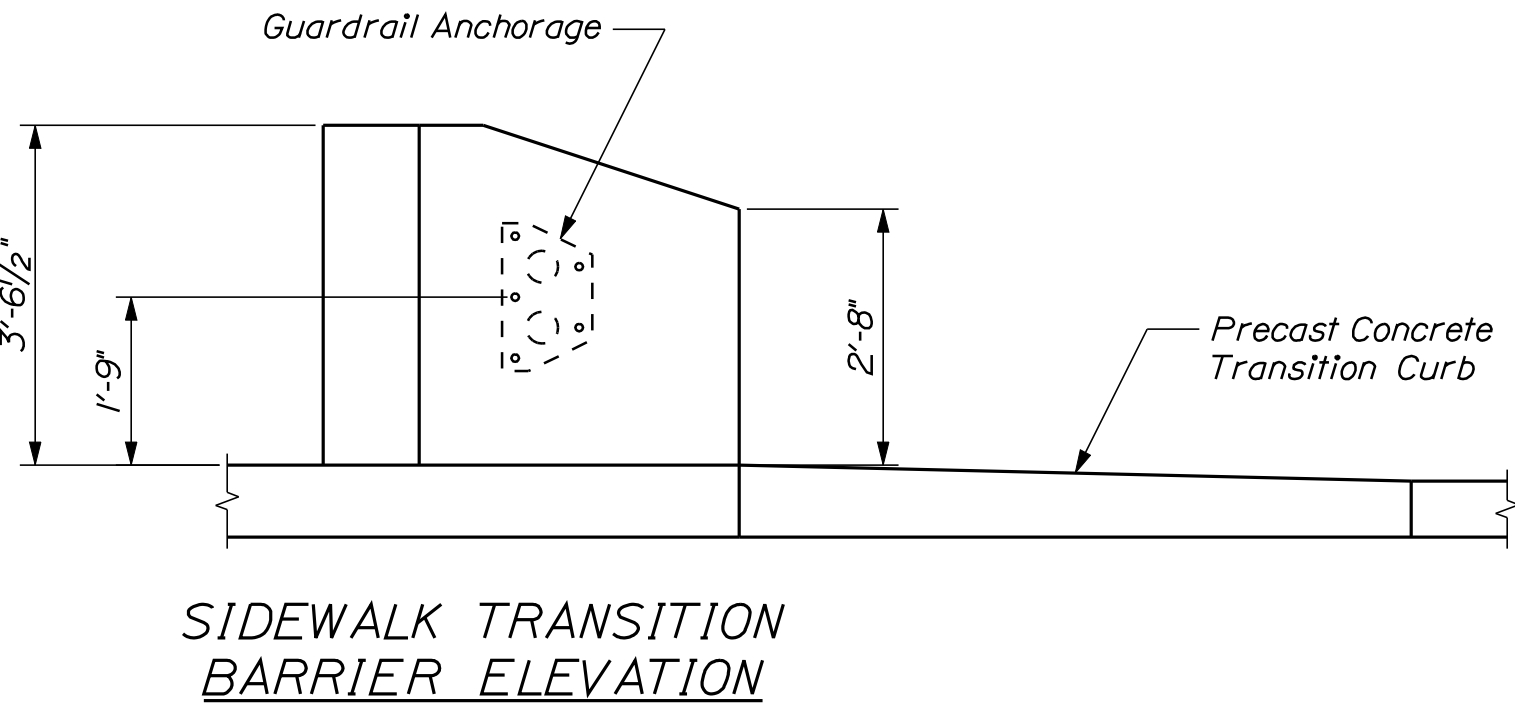
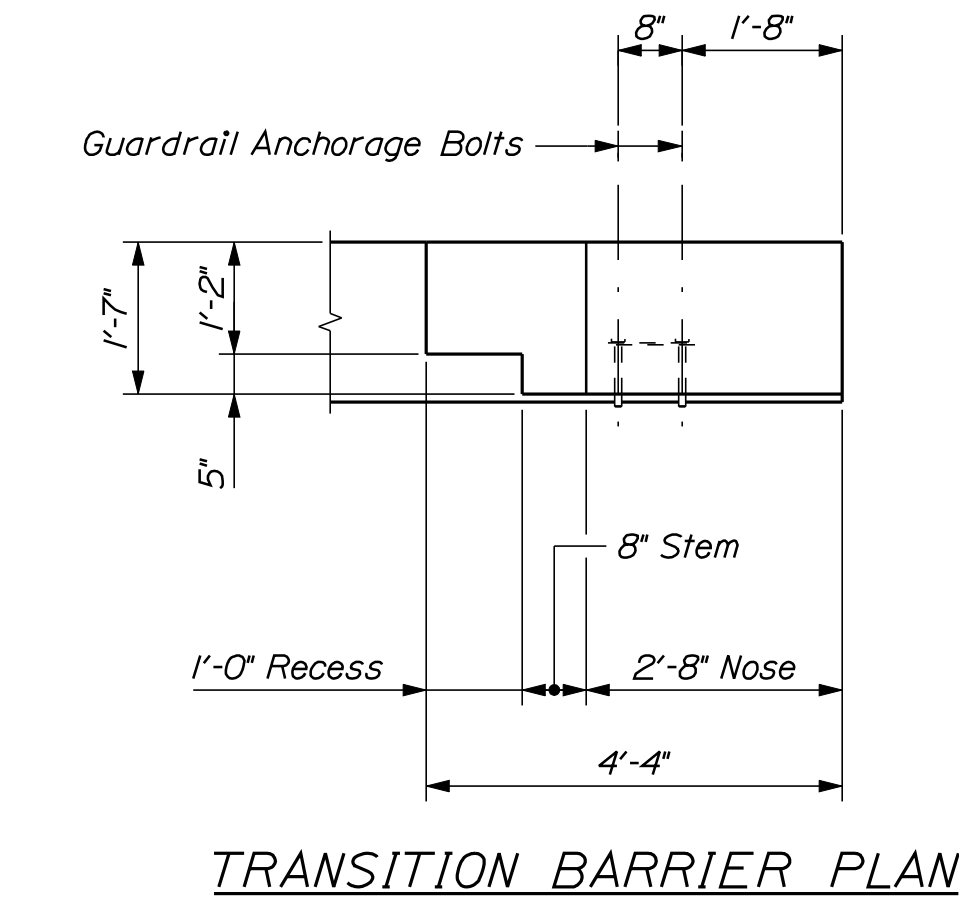
CURB TRANSITION BARRIER SECTION  
Section thru Nose

TRANSITION BARRIER NOTES

1. Refer to Standard Details Section 526 for details of Guardrail Anchorage, attachment of Bridge Transition type "I", and construction notes.
2. Refer to Standard Details Section 609 for Precast Concrete Transition Curb.

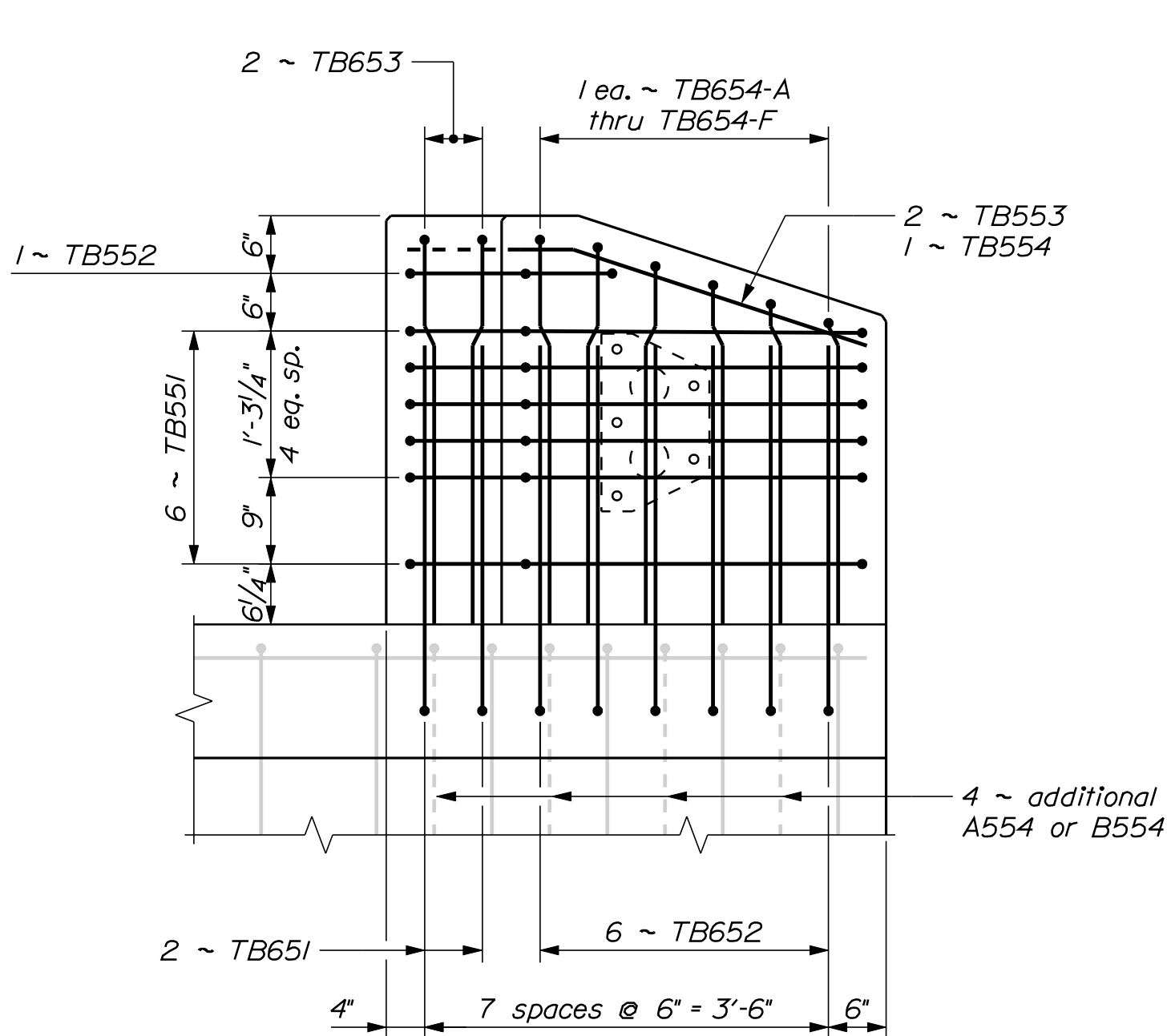
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		SIGNATURE		DATE		BY		J. Kittredge		CENTRE STREET CONNECTION		SHEET NUMBER	
										U.S. ROUTE 1			
STP-1872(500)		P.E. NUMBER		DATE		BY		J. Kittredge		BATH		30	
										SAGADAHOC COUNTY			
BRIDGE NO. 6142 WIN 18725.00 & 18725.10 BRIDGE PLANS		DATE		BY		J. Kittredge		J. Kittredge		CURB TRANSITION BARRIERS		OF 53	
										DESIGN-DETAILED			
										CHECKED-REVIEWED			
										DESIGN2-DETAILED2			
										DESIGN3-DETAILED3			
STP-1872(500)		P.E. NUMBER		DATE		BY		J. Kittredge		FIELD CHANGES		OF 53	
										REVISIONS 1			
										REVISIONS 2			
										REVISIONS 3			
										REVISIONS 4			





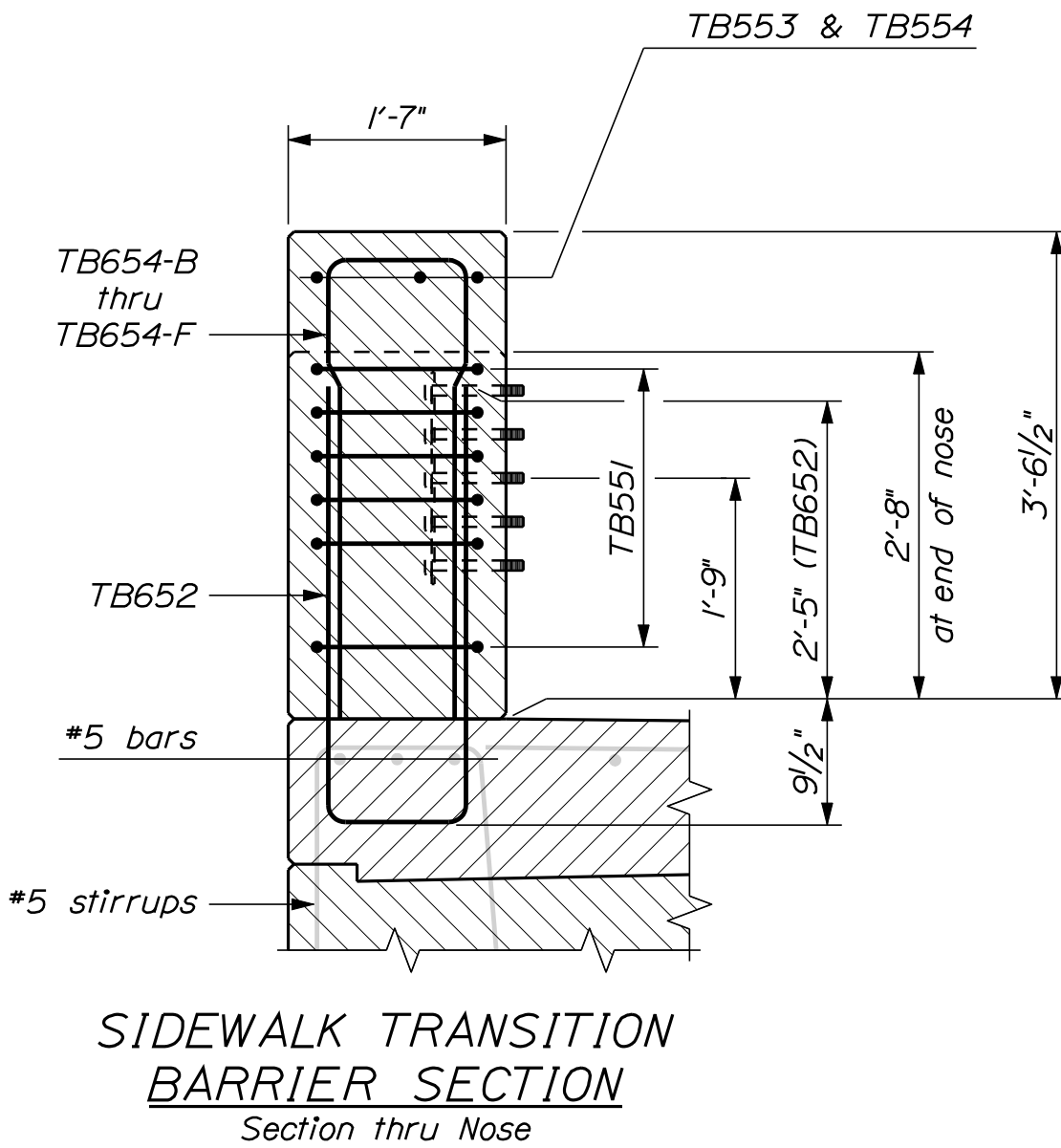
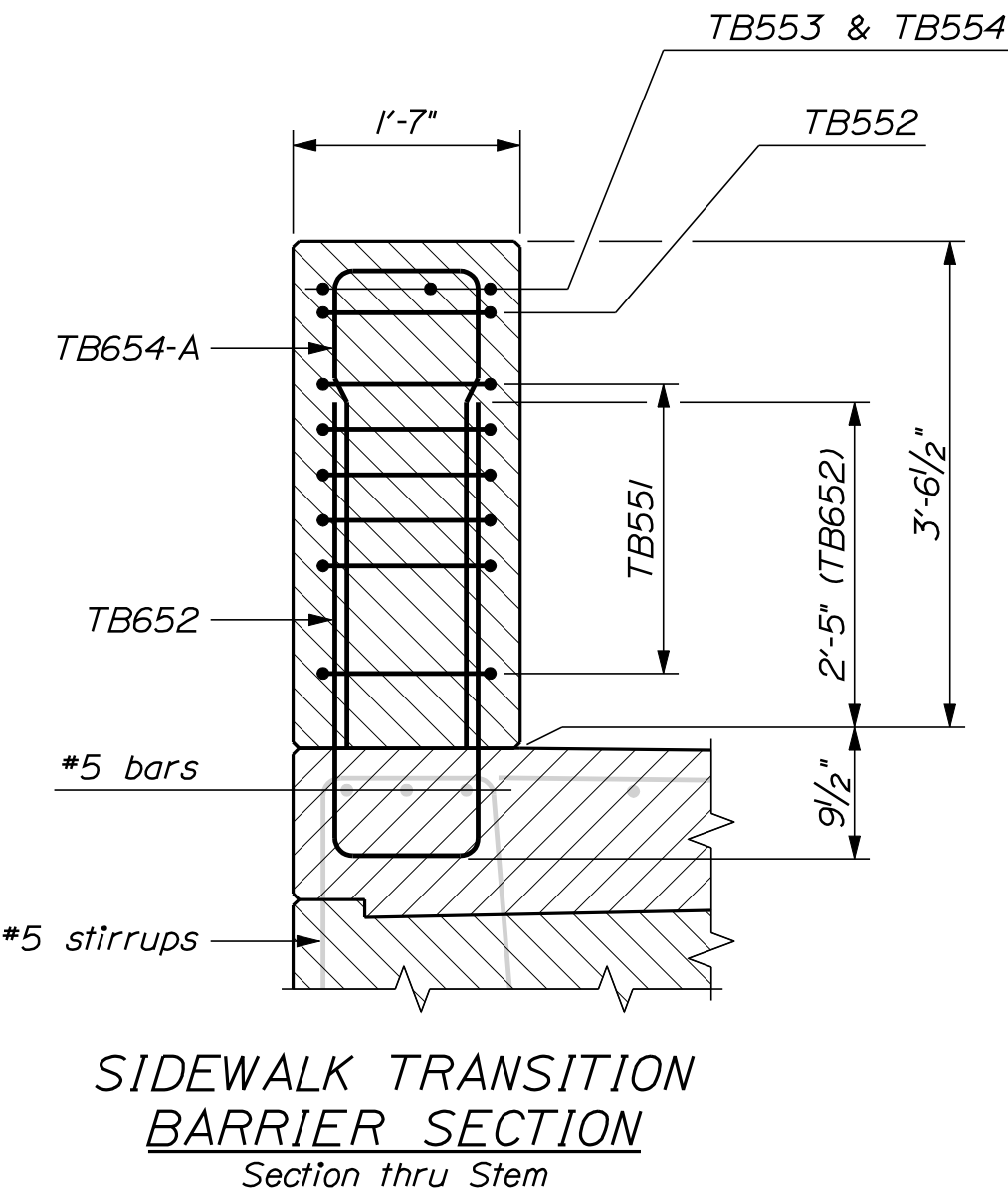
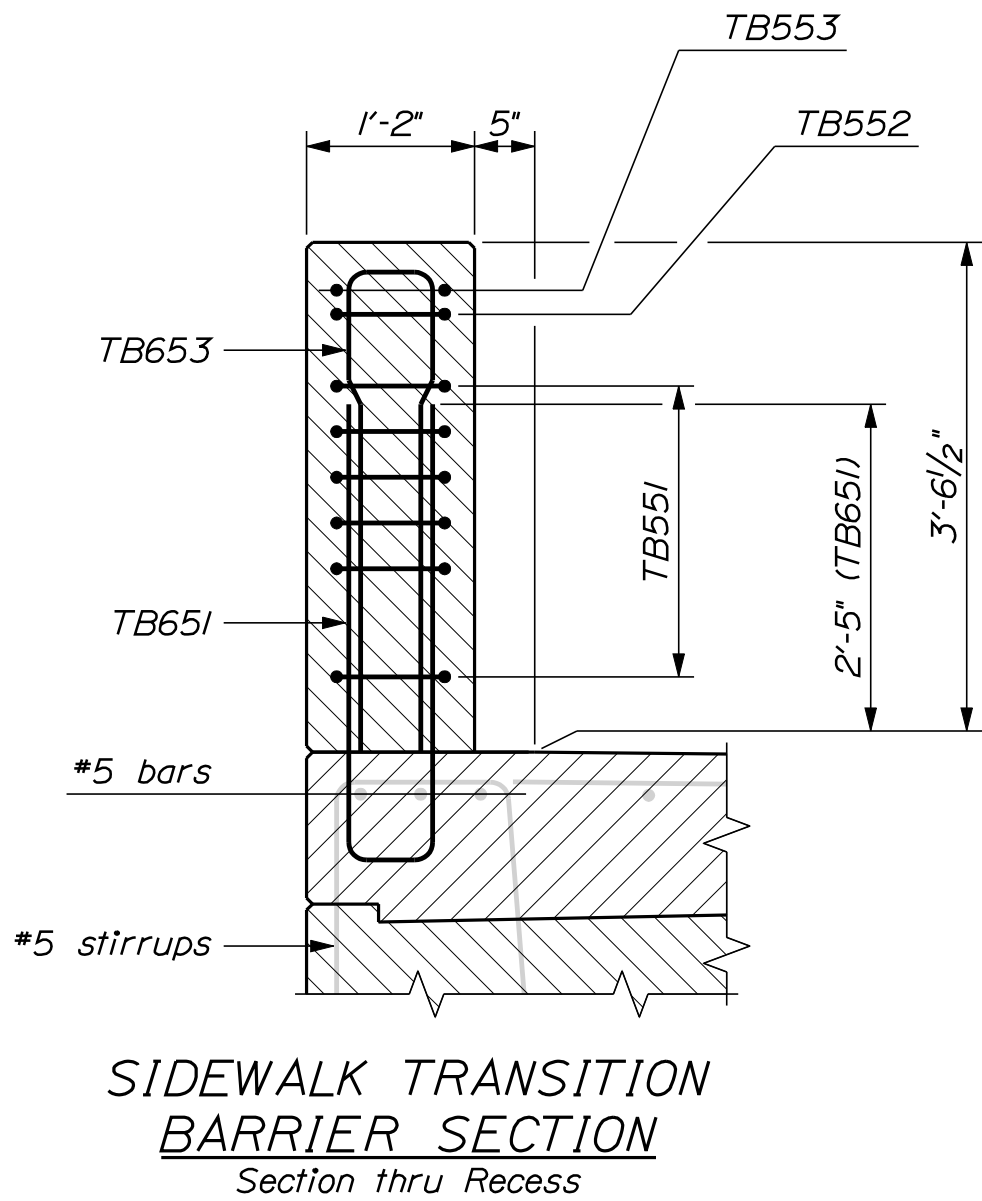
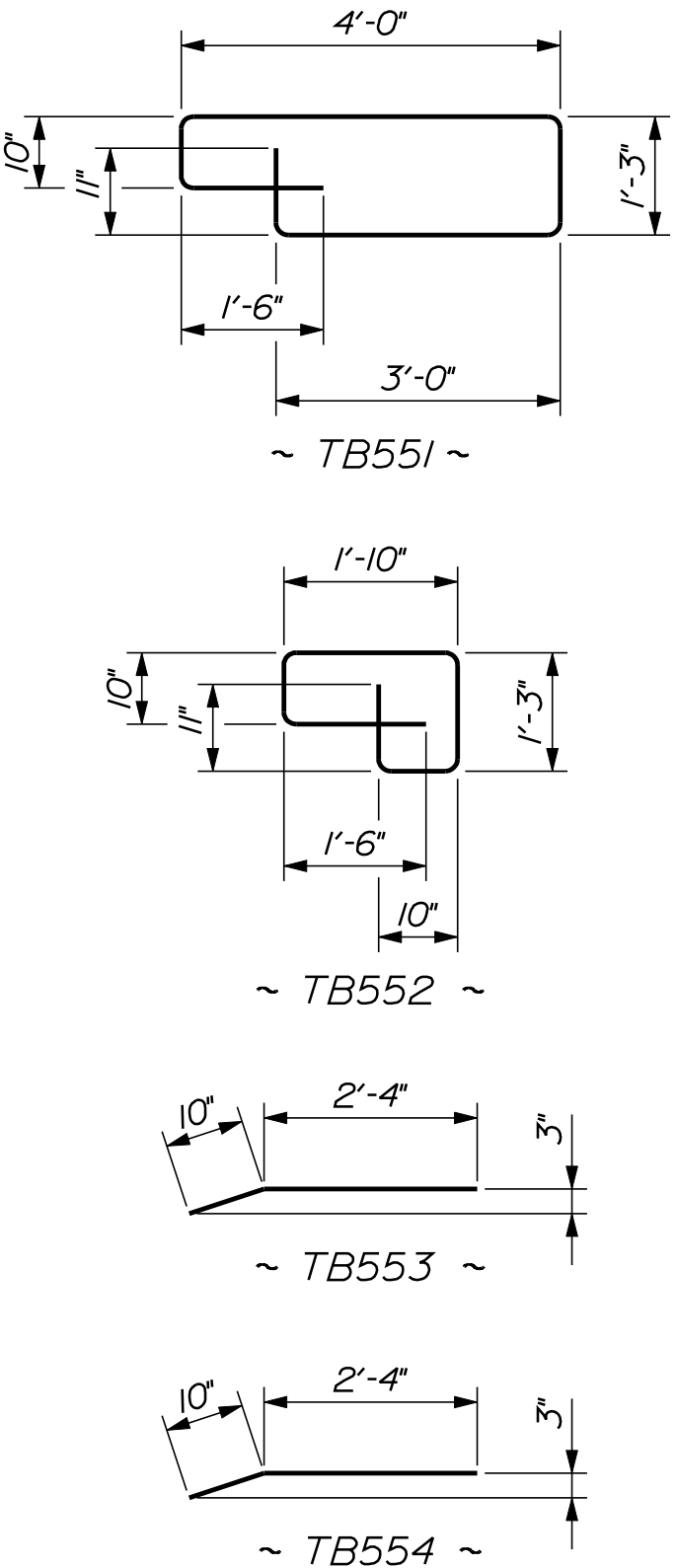
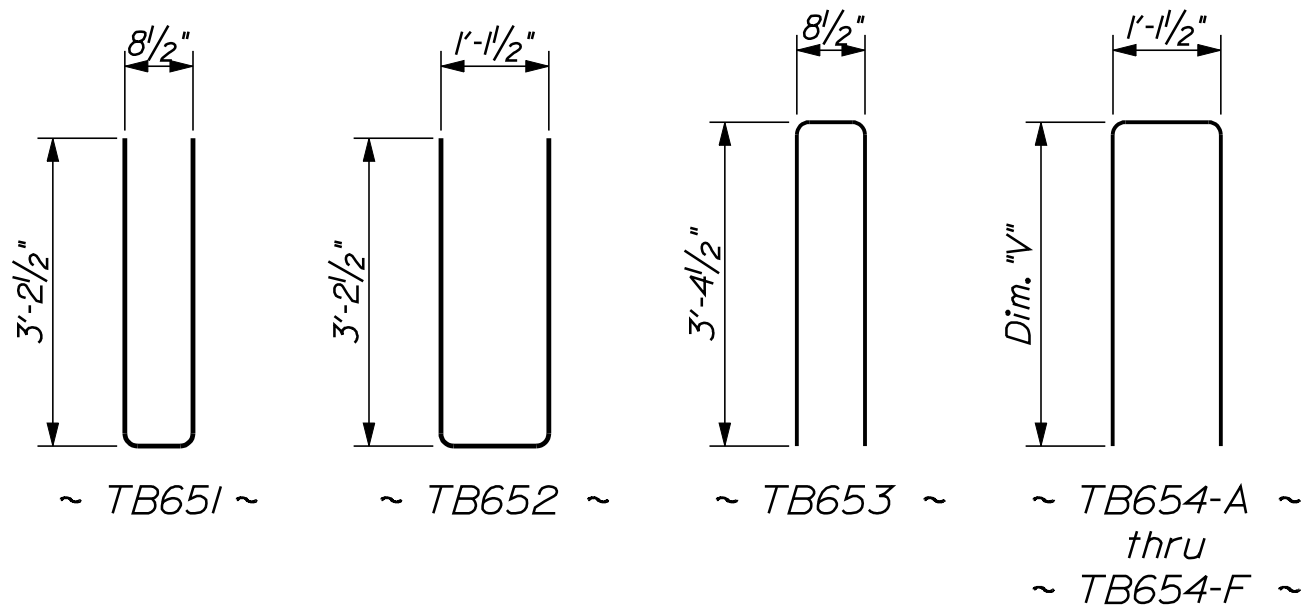
LEGEND

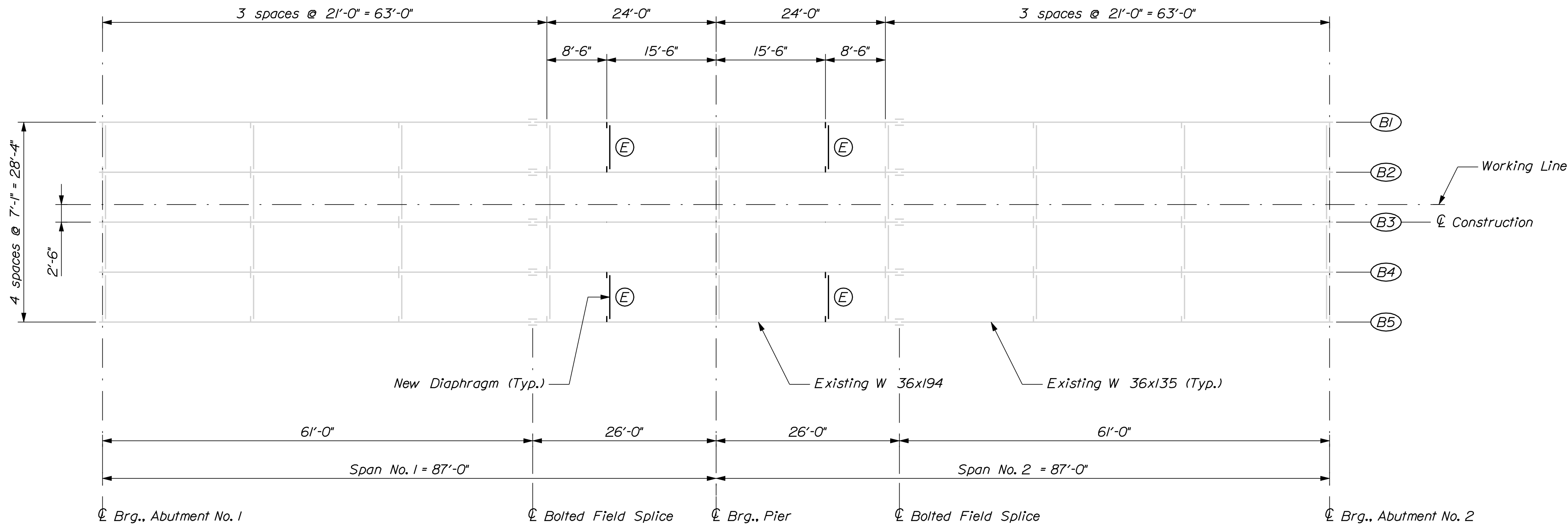
N.F. = Near Face  
F.F. = Far Face  
E.F. = Each Face  
Ctr. = Center



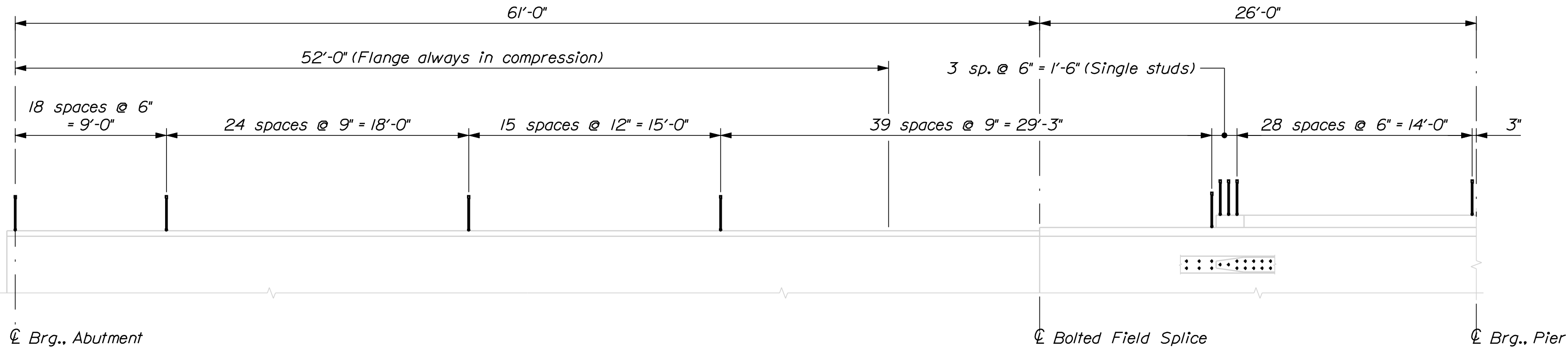
REINFORCING STEEL SCHEDULE			
	Qty.	Dim. "v"	Length
TB551	12	--	11'-6"
TB552	2	--	7'-2"
TB553	4	--	X
TB554	2	--	X
TB651	4	--	7'-2"
TB652	12	--	7'-7"
TB653	4	--	7'-6"
TB654-A	2	3'-4 1/2"	7'-11"
TB654-B	2	3'-3 1/2"	7'-9"
TB654-C	2	3'-1 1/2"	7'-5"
TB654-D	2	2'-11 1/2"	7'-1"
TB654-E	2	2'-9 1/2"	6'-9"
TB654-F	2	2'-7 1/2"	6'-5"

Notes:  
The first digit following the letters of the mark indicates the size of the reinforcing bar.  
(TB551 = bar size #5.)  
All dimensions are out - to - out of bar.

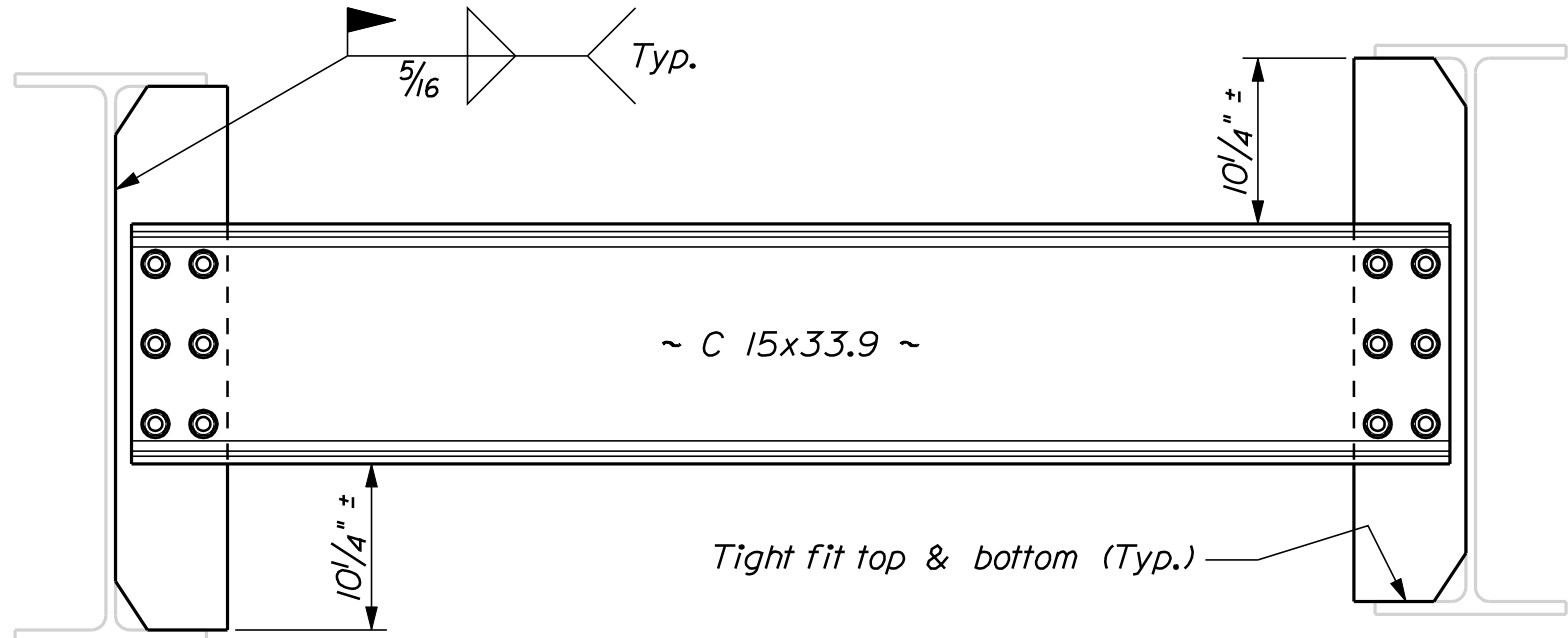




FRAMING PLAN  
Dimensions are horizontal



SHEAR CONNECTOR SPACING ~ BEAM NO. 3  
Double Studs ~ Adjust spacing to clear splice plate bolts



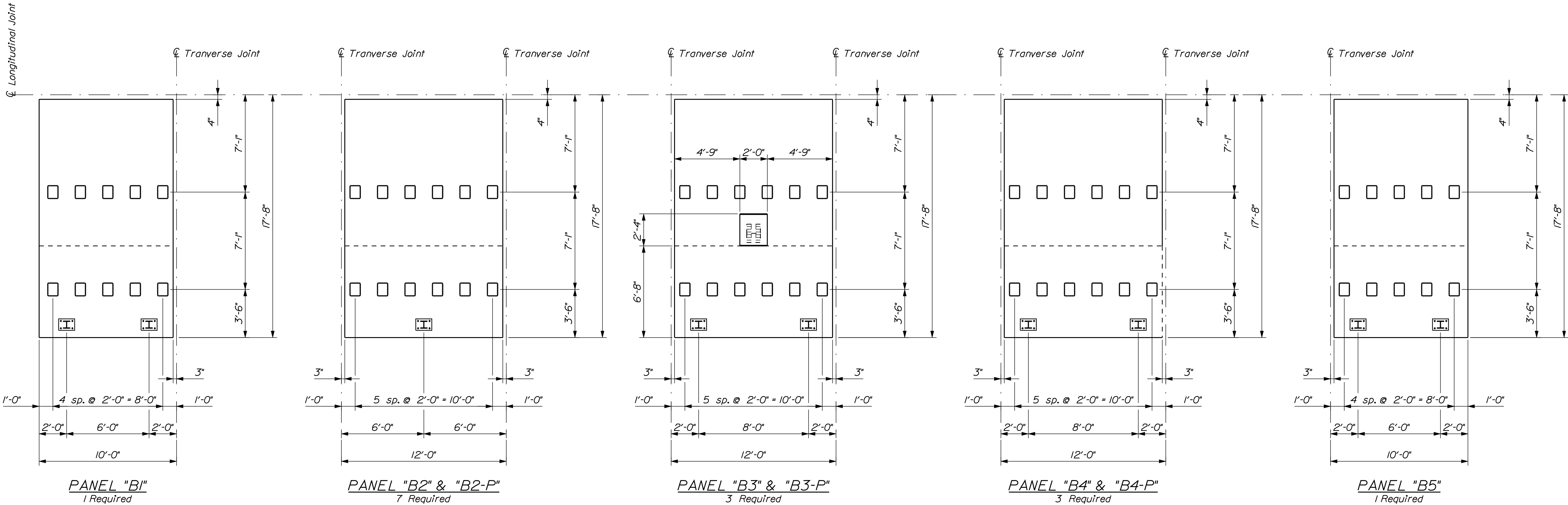
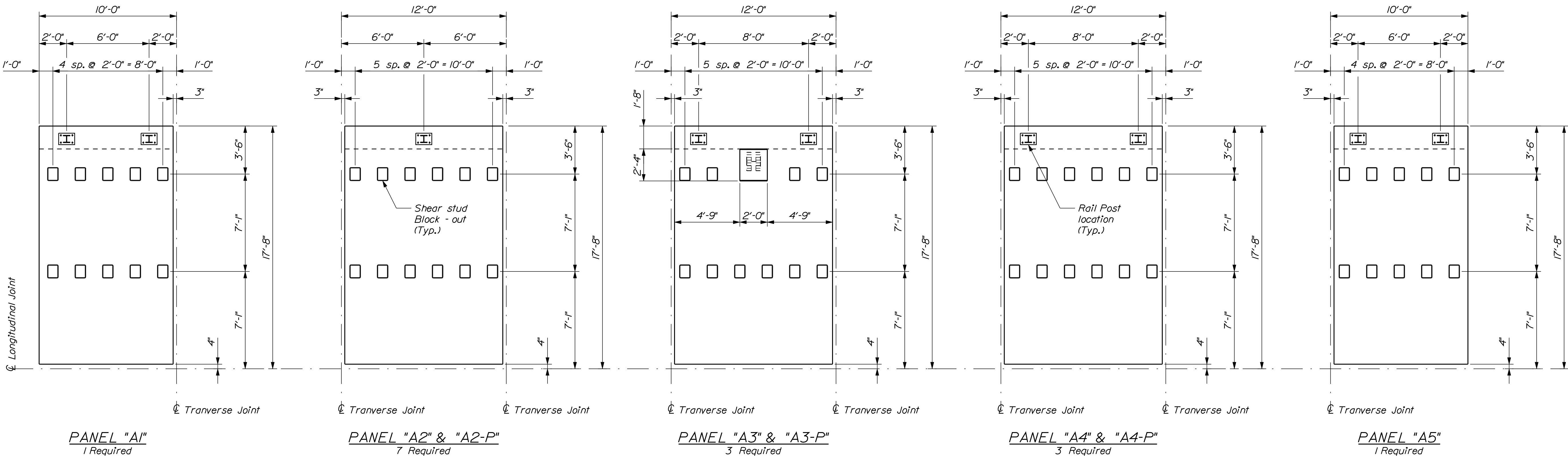
DIAPHRAGM TYPE "E"  
Refer to Standard Details Section 504 for details not shown

SHEAR CONNECTON NOTES

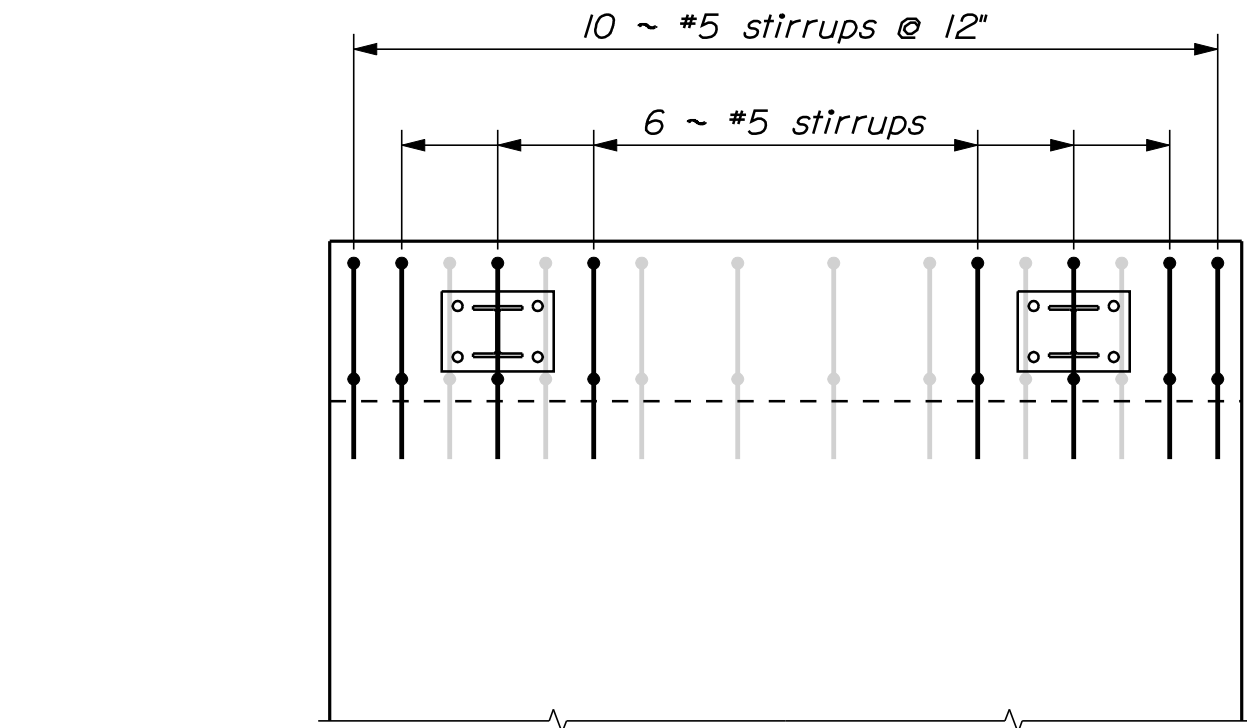
1. Payment for removal of the existing shear connectors will be considered incidental to Item No. 202.10, Removing Existing Superstructure.
2. For girders not shown, shear connectors shall be placed in shear stud blockouts as shown on the "Superstructure Details" sheets.
3. Prior to installing the proposed shear connectors, the Contractor shall clean the top flange and cover plates to be free of debris, rust, scale, oil, and other contaminants that would adversely affect the welding operation. Payment for cleaning the top flange for installation of proposed shear connectors will be considered incidental to Item No. 505.08, Shear Connectors.
4. The proposed shear connectors shall be 7/8" diameter and shall penetrate into the deck a minimum of 2 inches, with a minimum clear cover of 2 inches to the top of the connector.
5. Shear connector spacing may be adjusted if conflicts with panel reinforcing occur.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BATH		STP-1872(500)	
CENTRE STREET CONNECTION		SAGadahoc COUNTY	
U.S. ROUTE 1		FRAMING PLAN	
SHEET NUMBER		32	
OF 53		BRIDGE NO. 6142	
		WIN	
		18725.00 & 18725.10	
		BRIDGE PLANS	

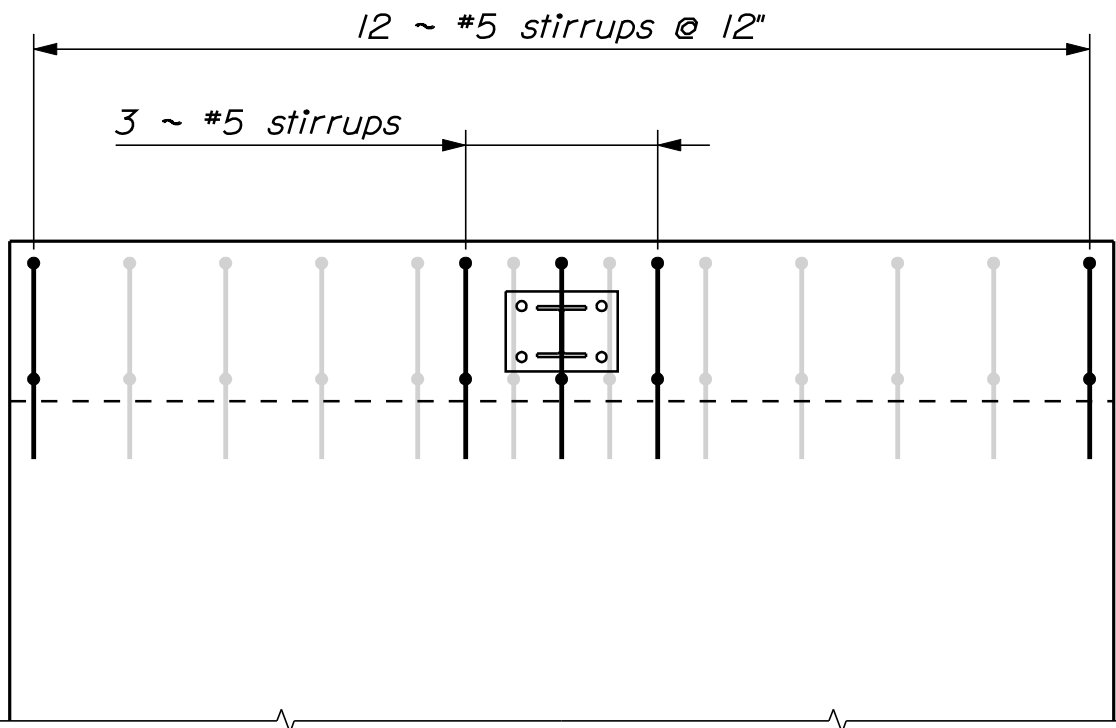




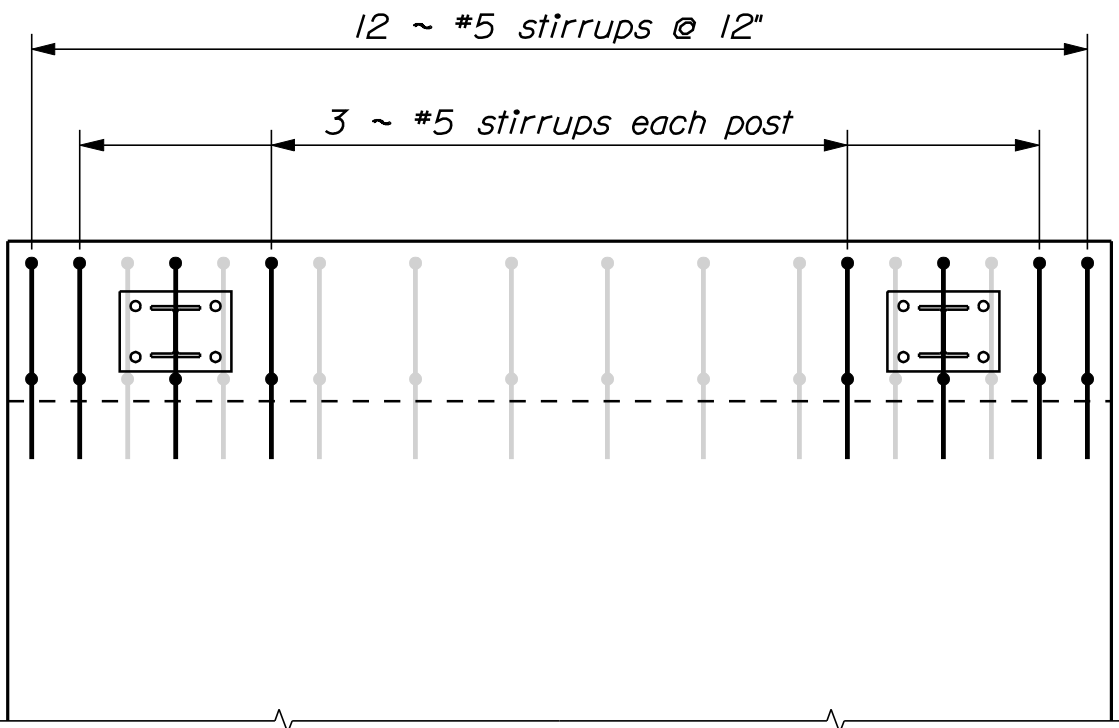
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
CENTRE STREET CONNECTION		STP-1872(500)	
BATH		WIN	
U.S. ROUTE 1		BRIDGE NO. 6142	
SAGADAHOC COUNTY		18725.00 & 18725.10	
PRECAST PANELS		BRIDGE PLANS	
SHEET NUMBER		34	
OF 53			
DATE		SIGNATURE	
P.E. NUMBER		DATE	
FIELD CHANGES			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
DESIGNS DETAILLED			
CHECKED-REVIEWED			
DESIGNED-DETAILED			
PROJ. MANAGER			
BY			
DATE			
J. Kirtledge			
D. Edon			
WSP			
WSP			
Oct. 2017			
Nov. 2017			



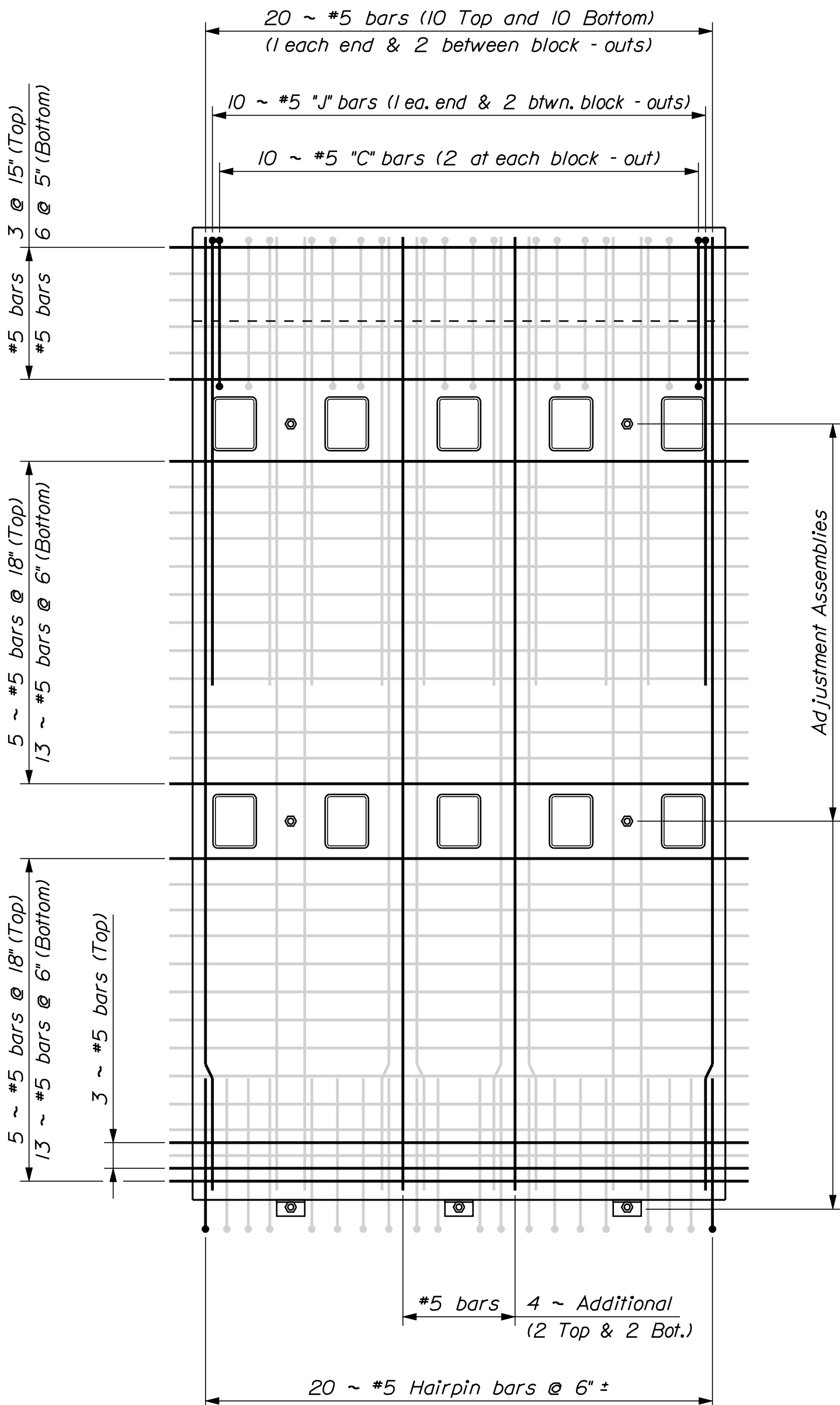
PANEL TYPE "A1" CURB REINFORCING PLAN



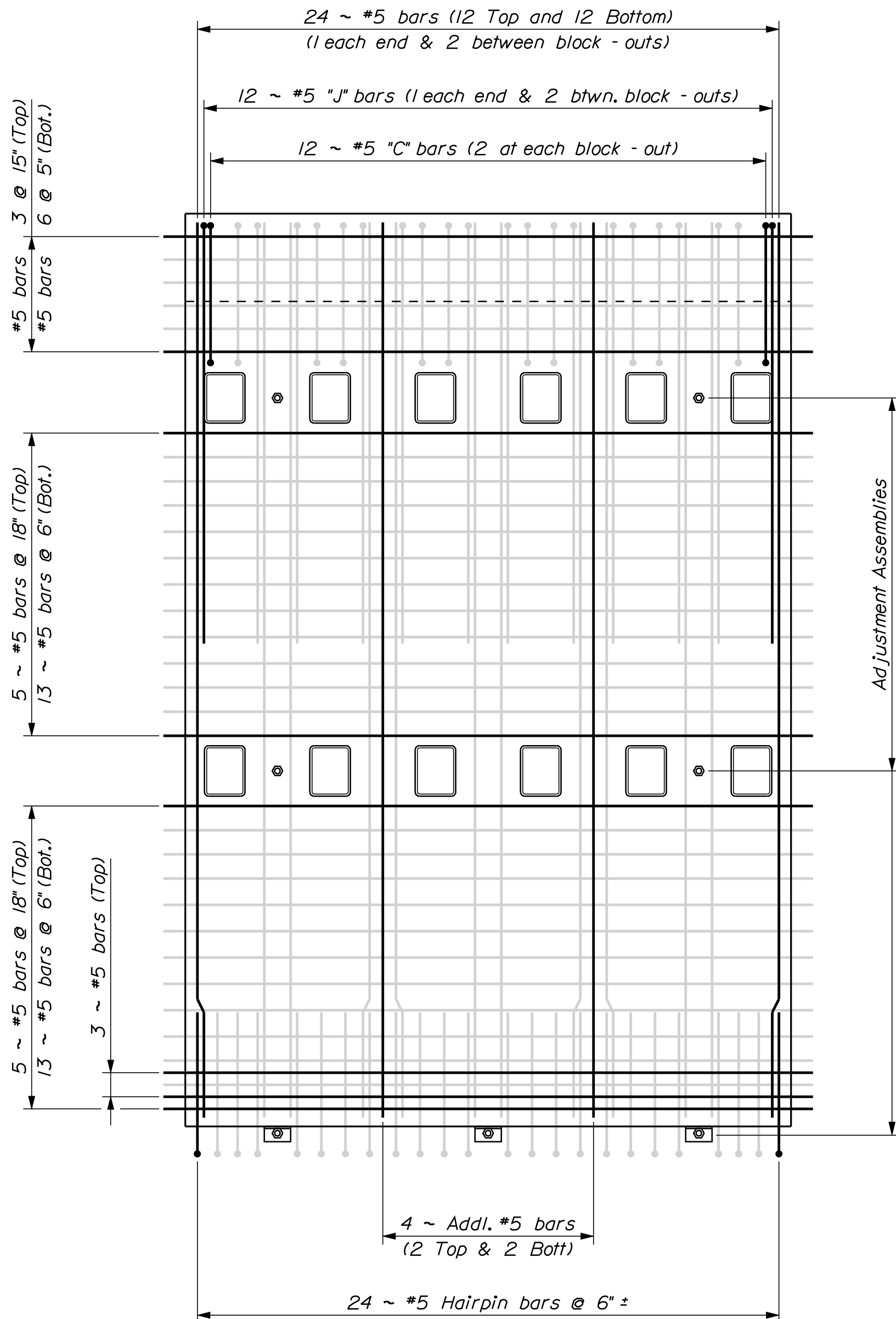
PANEL TYPE "A2" & "A2-P" CURB REINFORCING PLAN



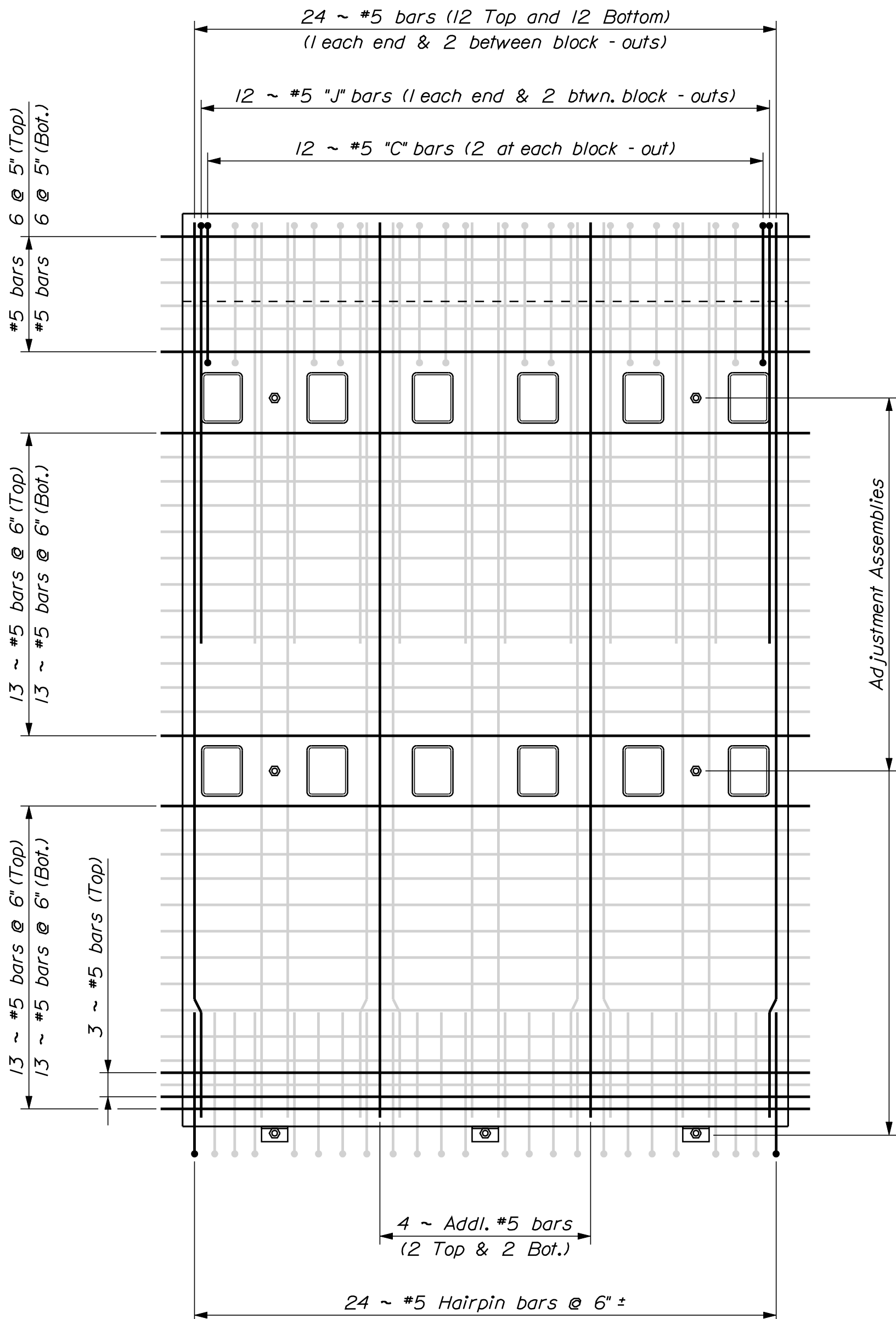
PANEL TYPE "A4" & "A4-P" CURB REINFORCING PLAN



PANEL TYPE "A1" & "A5" REINFORCING PLAN



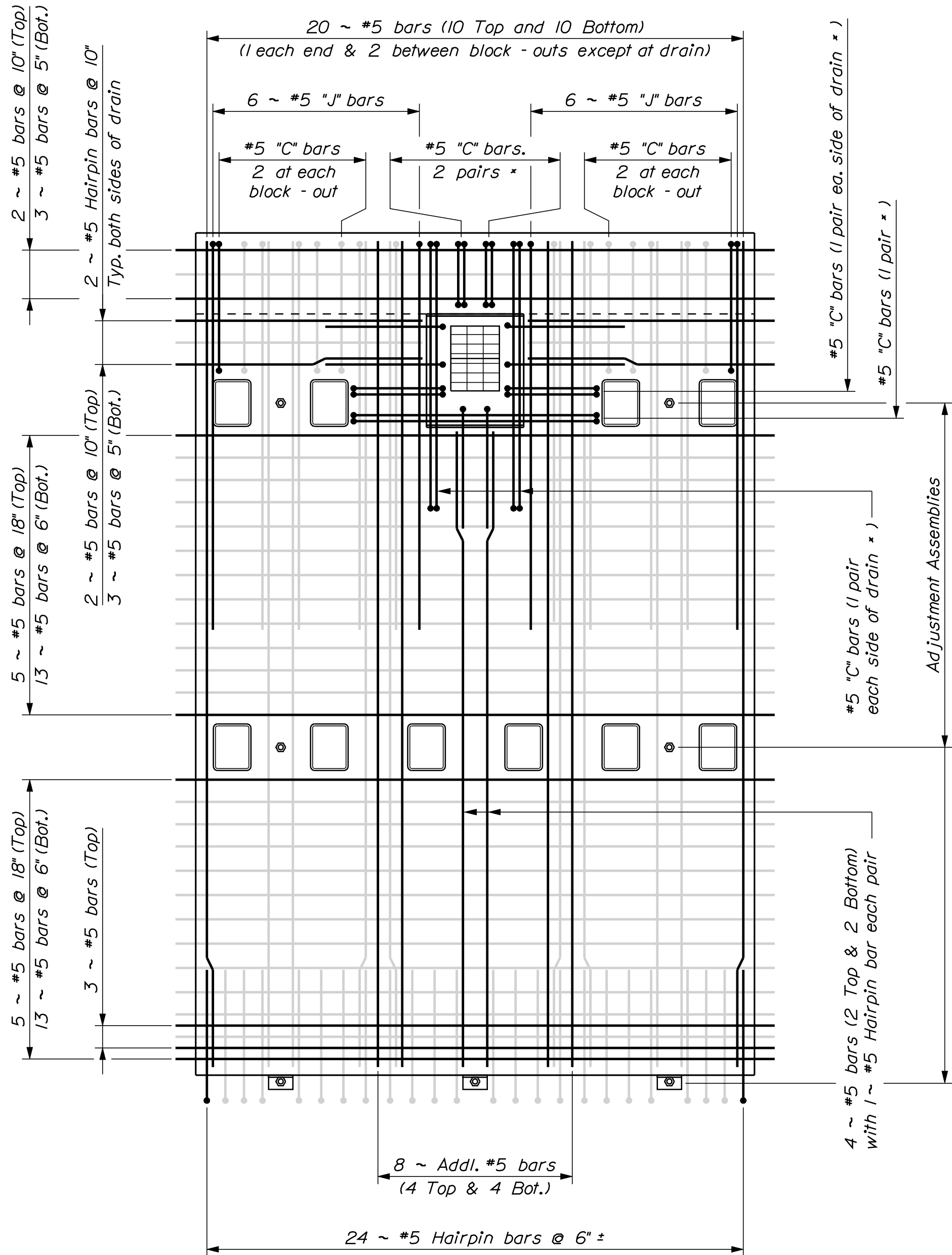
PANEL TYPE "A2" & "A4" REINFORCING PLAN



PANEL TYPE "A2-P" & "A4-P" REINFORCING PLAN

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BATH		SAGadahoc COUNTY	
CENTRE STREET CONNECTION		U.S. ROUTE 1	
PANEL "A" REINFORCING		SHEET NUMBER	
35		OF 53	
STP-1872(500)		SIGNATURE	
WIN		P.E. NUMBER	
BRIDGE NO. 6142		DATE	
18725.00 & 18725.10		FIELD CHANGES	
BRIDGE PLANS		DESIGN-DETAILED	
		CHECKED-REVIEWED	
		DESIGN-DETAILED	
		REVISIONS 1	
		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		BY	
		DATE	
		J. Kirtledge	
		D. Eaton	
		D. Damren	
		WSP	
		Oct 2017	
		Nov 2017	

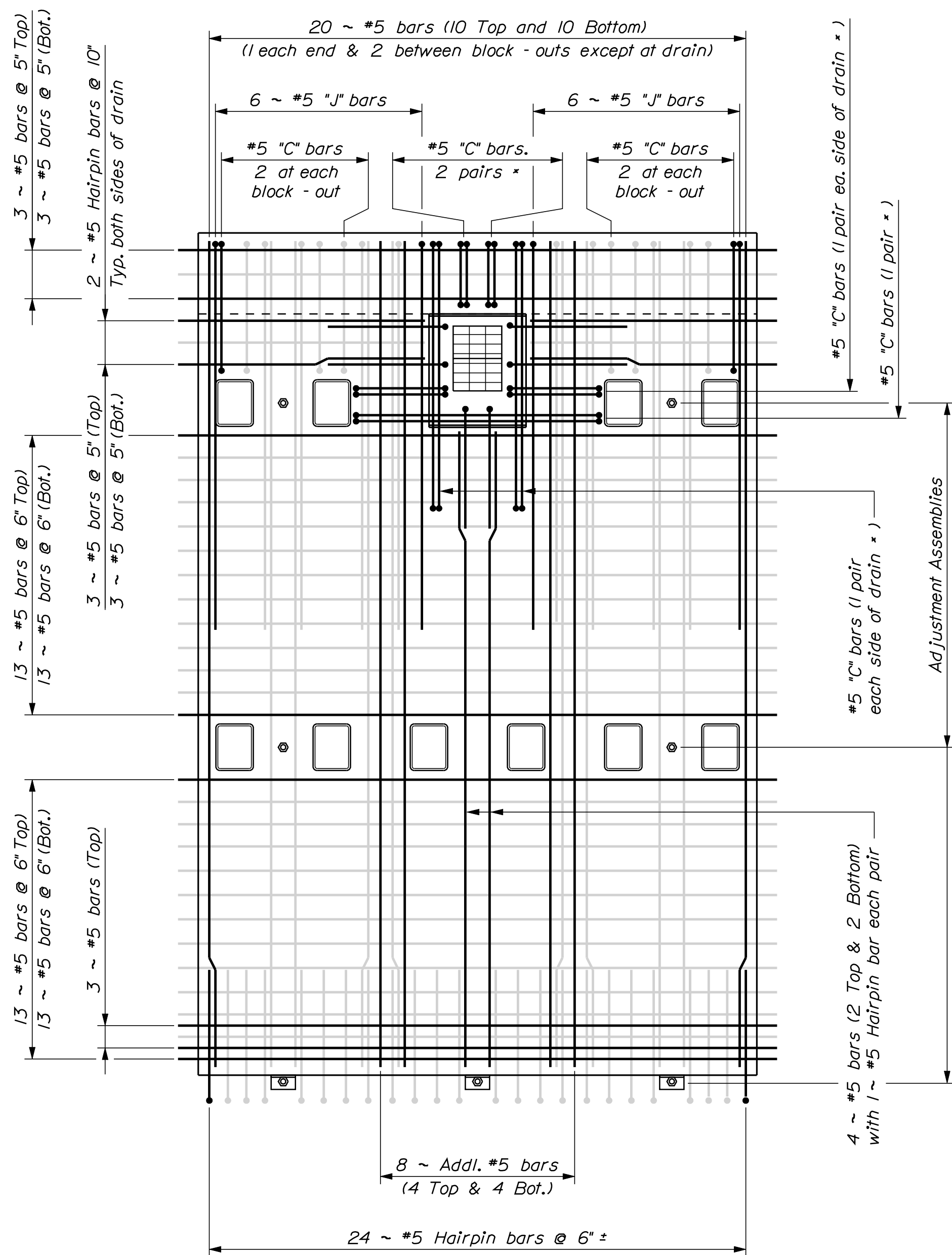
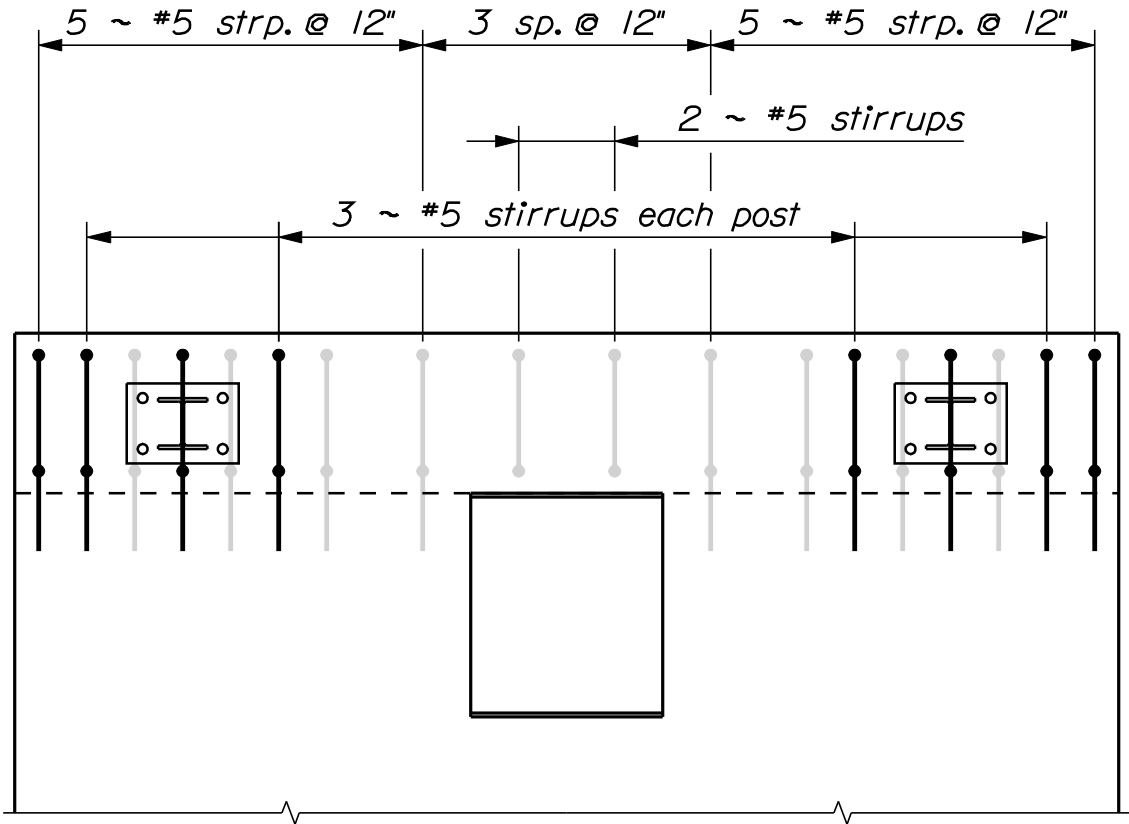




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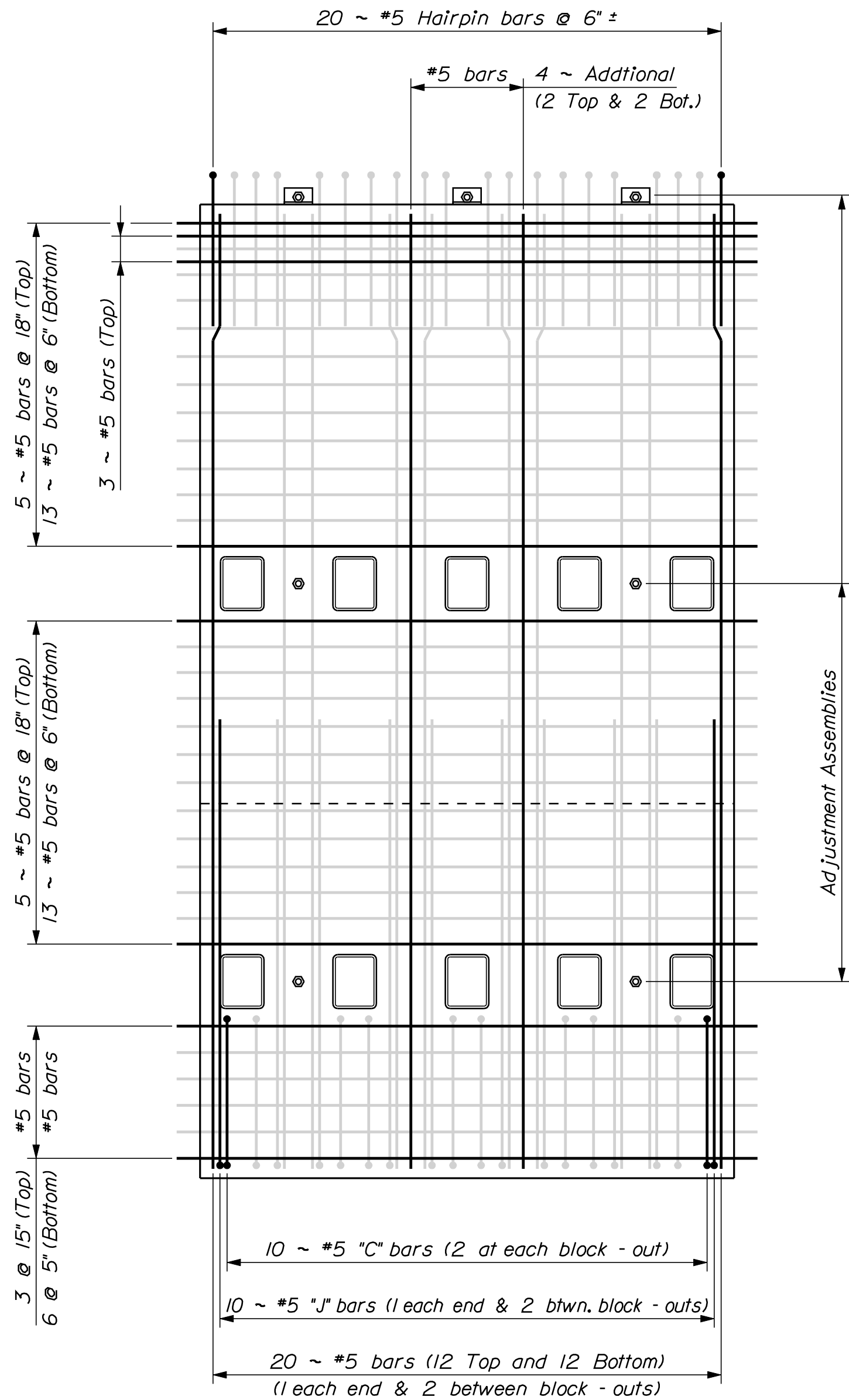
\* Hooks of "C" bar pairs placed 1 up & 1 down

PANEL TYPE "A3" & "A3-P" CURB REINFORCING PLAN

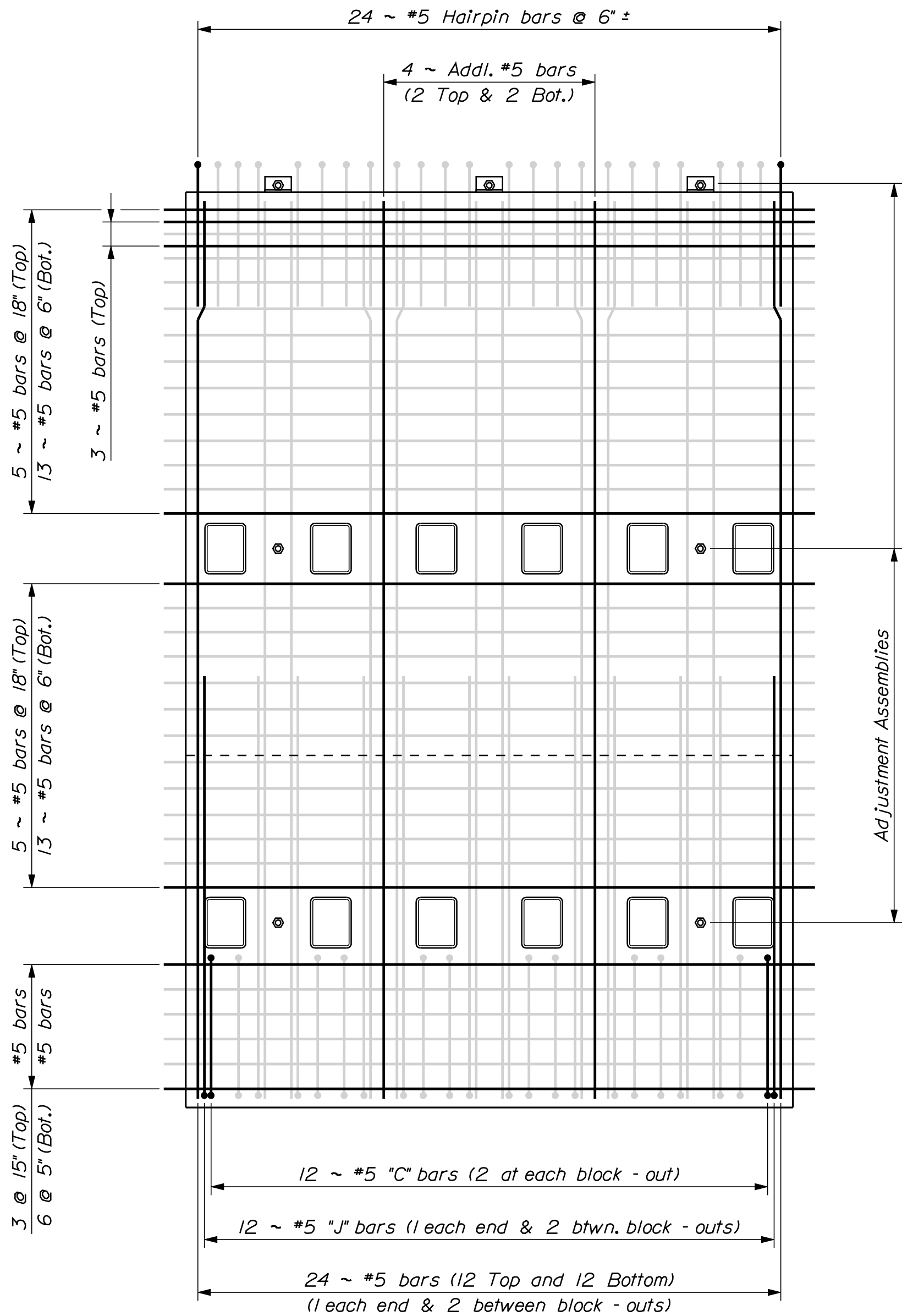
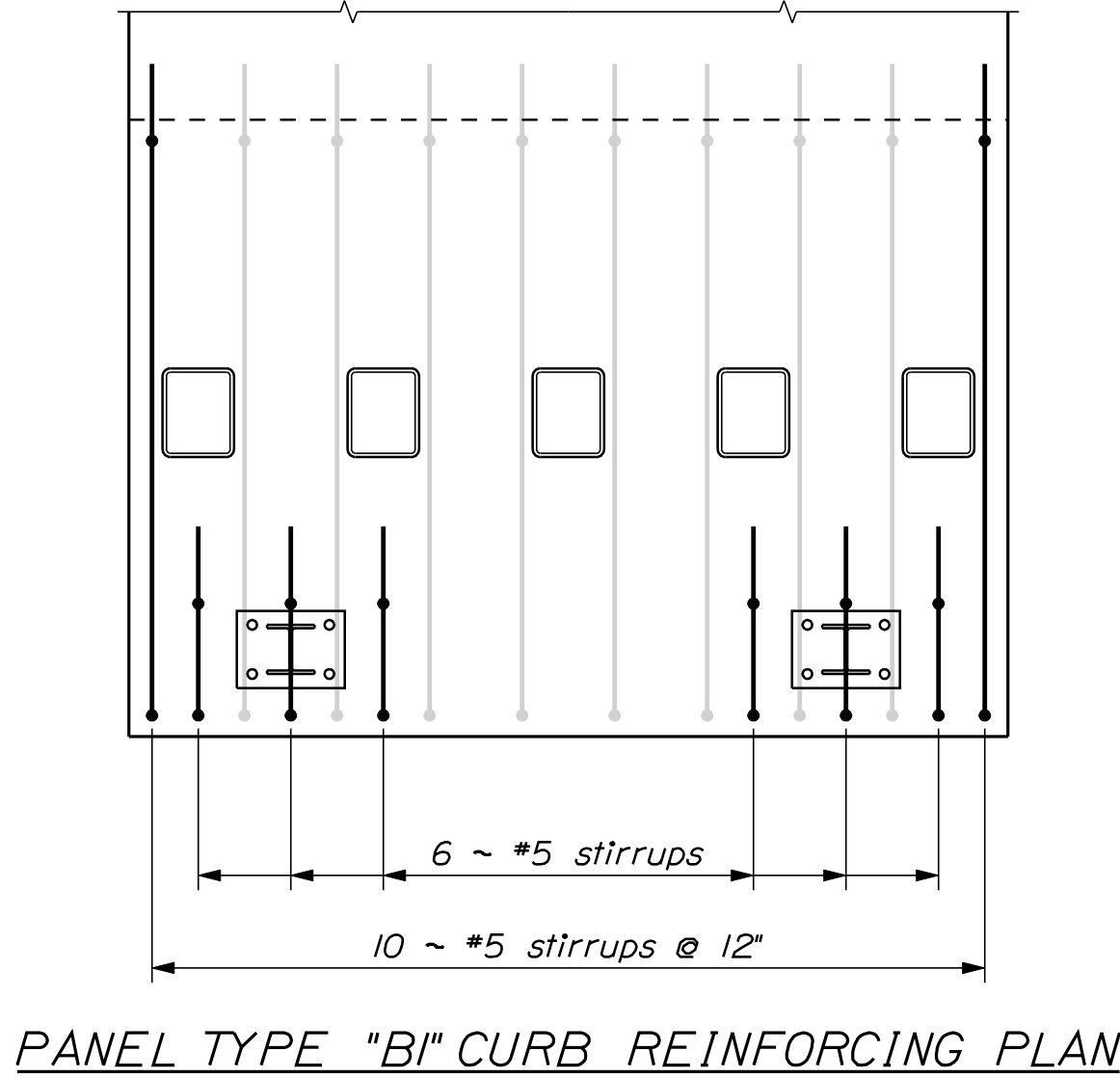


PANEL TYPE "A3-P" REINFORCING PLAN

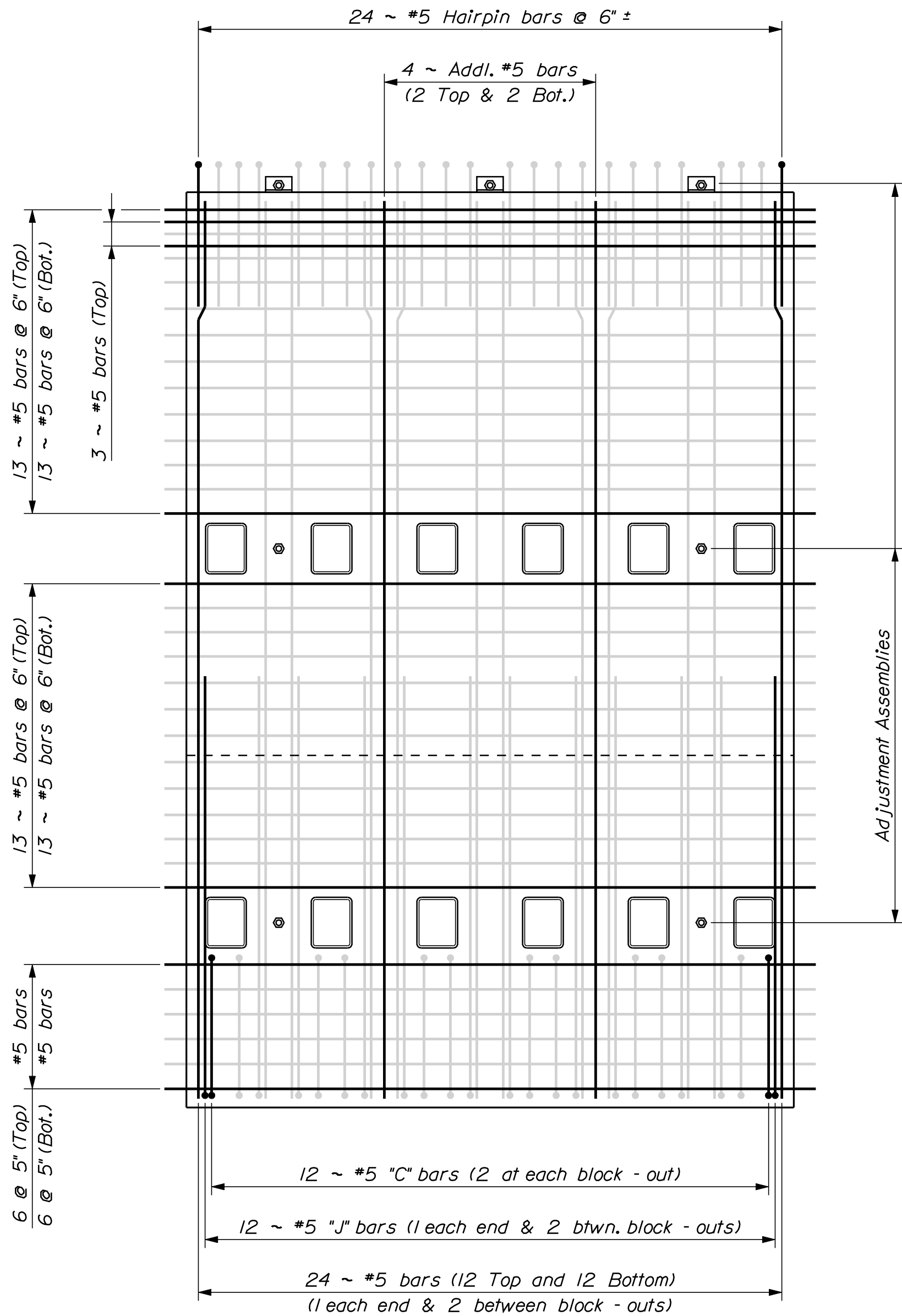
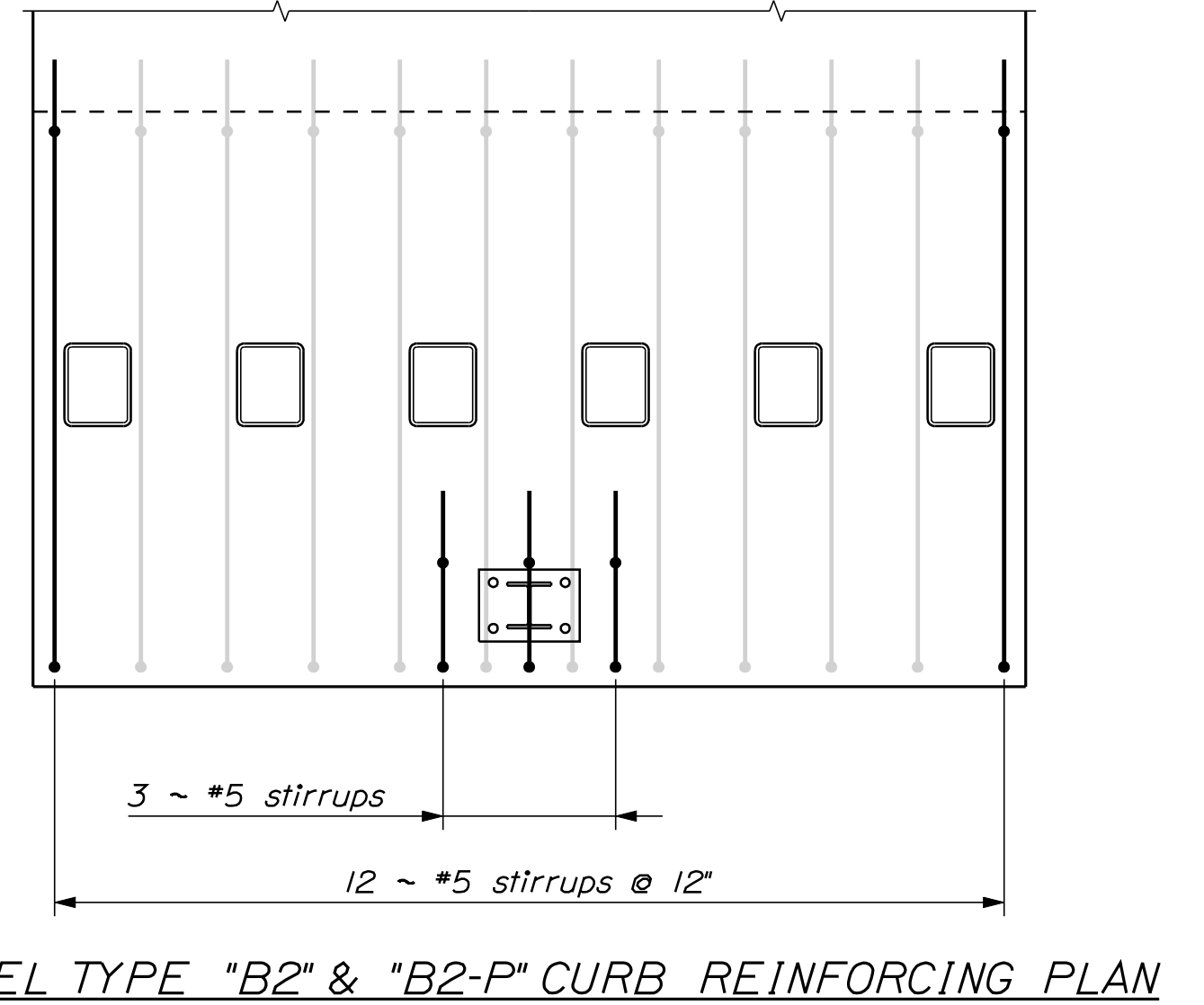
\* Hooks of "C" bar pairs placed 1 up & 1 down



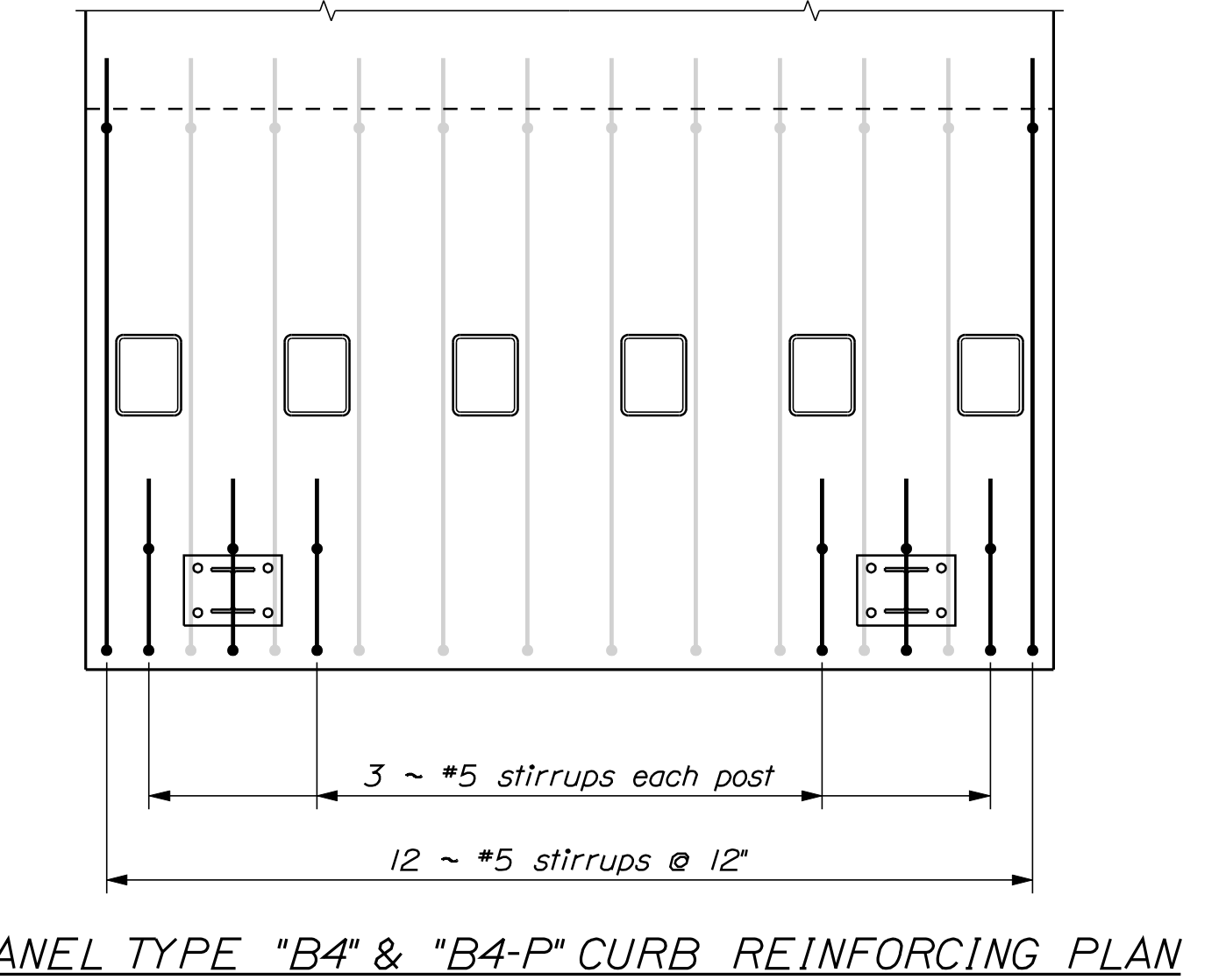
PANEL TYPE "B1" & "B5" REINFORCING PLAN



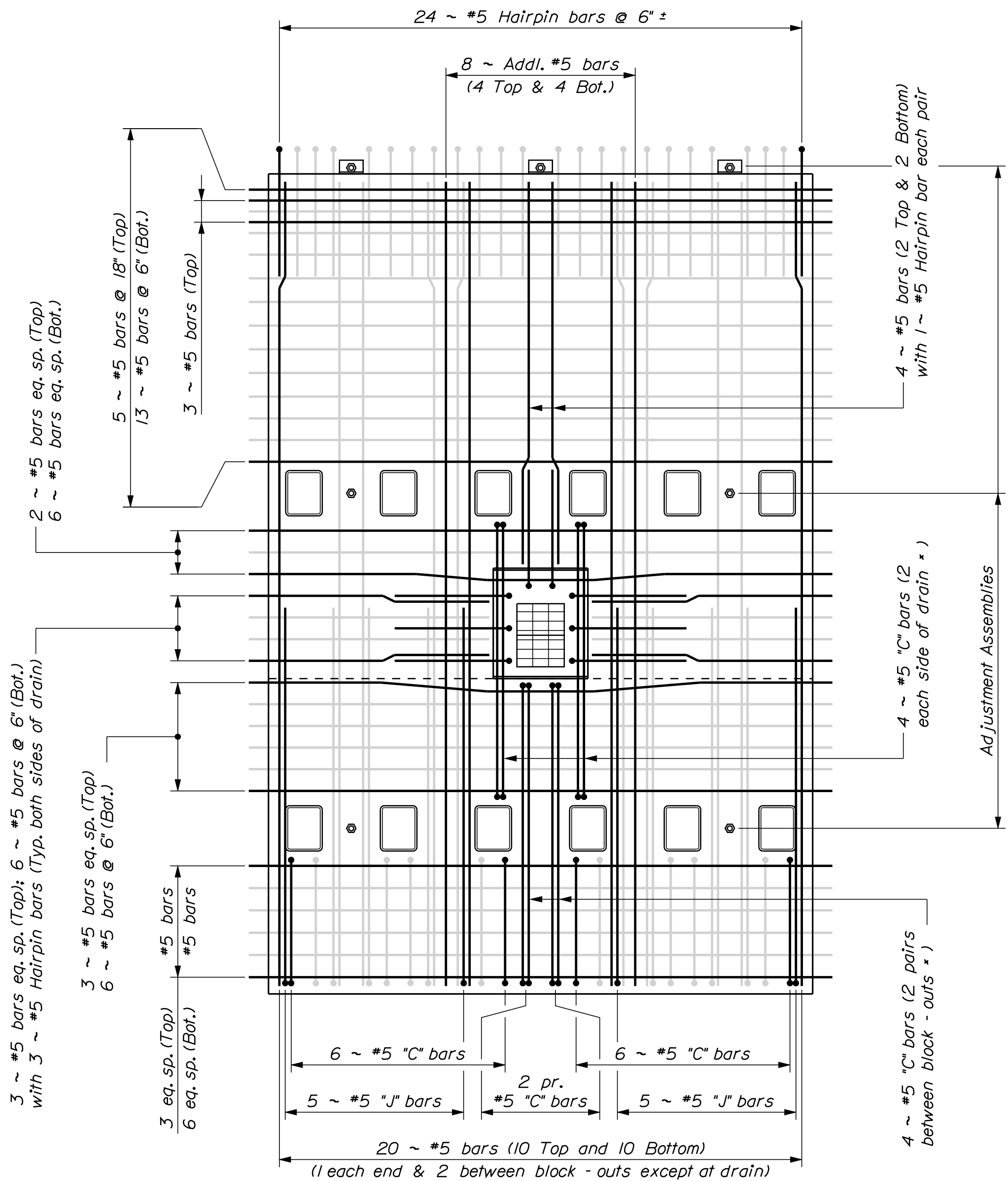
PANEL TYPE "B2" & "B4" REINFORCING PLAN



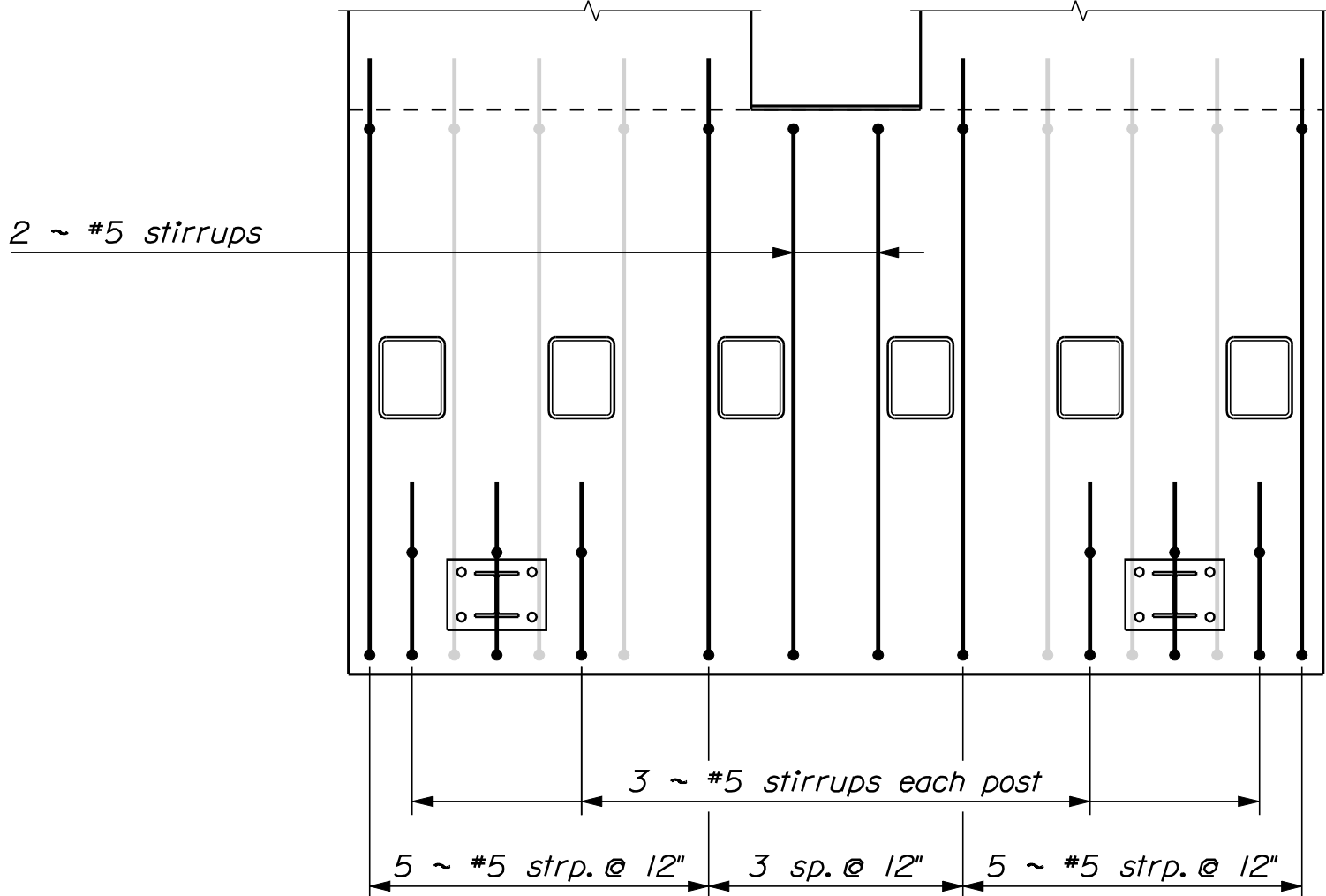
PANEL TYPE "B2-P" & "B4-P" REINFORCING PLAN



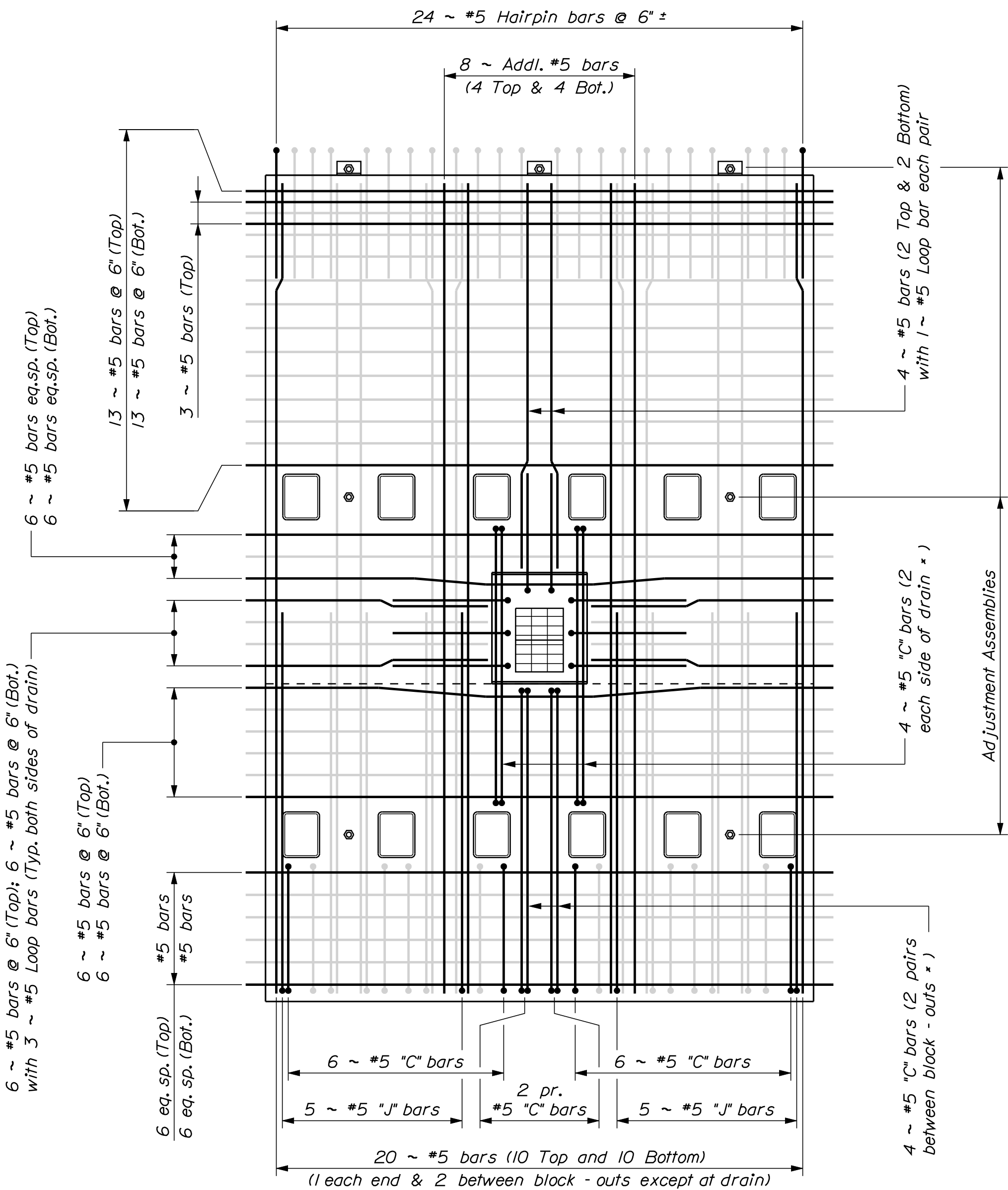
CENTRE STREET CONNECTION U.S. ROUTE 1 BATH SAGadahoc COUNTY		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
		STP-1872(500)	
		WIN BRIDGE NO. 6142 18725.00 & 18725.10 BRIDGE PLANS	
PANEL "B" REINFORCING		SIGNATURE	
		P.E. NUMBER	
		DATE	
		REVISIONS 1	
		REVISIONS 2	
SHEET NUMBER		FIELD CHANGES	
37		OF 53	



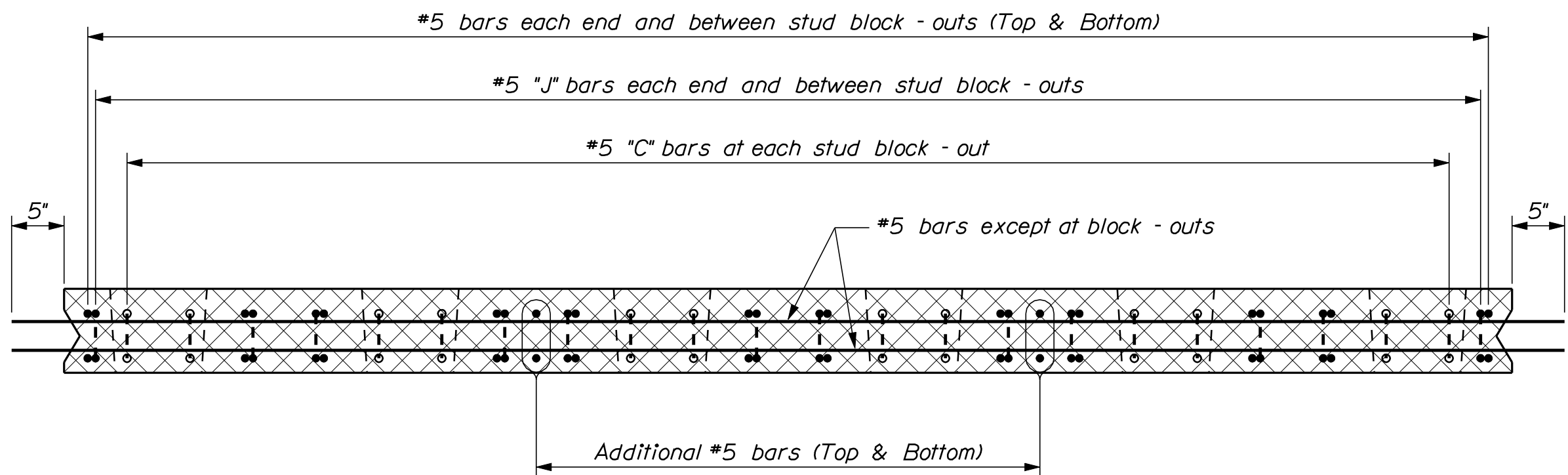
PANEL TYPE "B3" REINFORCING PLAN  
\* Hooks of "C" bar pairs placed 1 up & 1 down



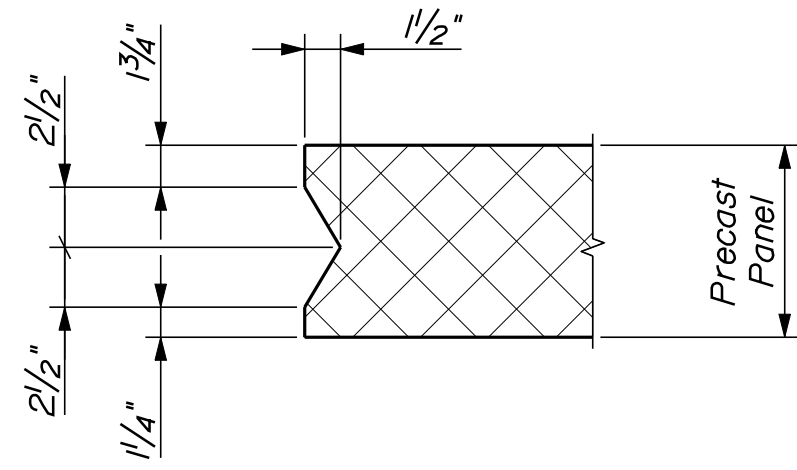
PANEL TYPE "B3" & "B3-P" CURB REINFORCING PLAN



PANEL TYPE "B3-P" REINFORCING PLAN  
\* Hooks of "C" bar pairs placed 1 up & 1 down

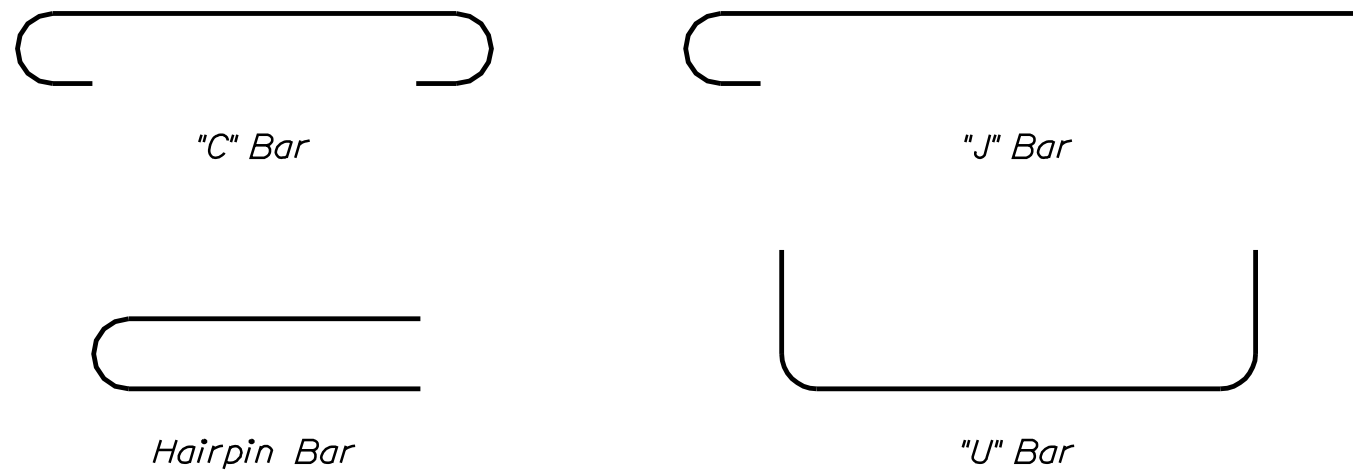


LONGITUDINAL SECTION ~ TYPICAL DECK PANEL



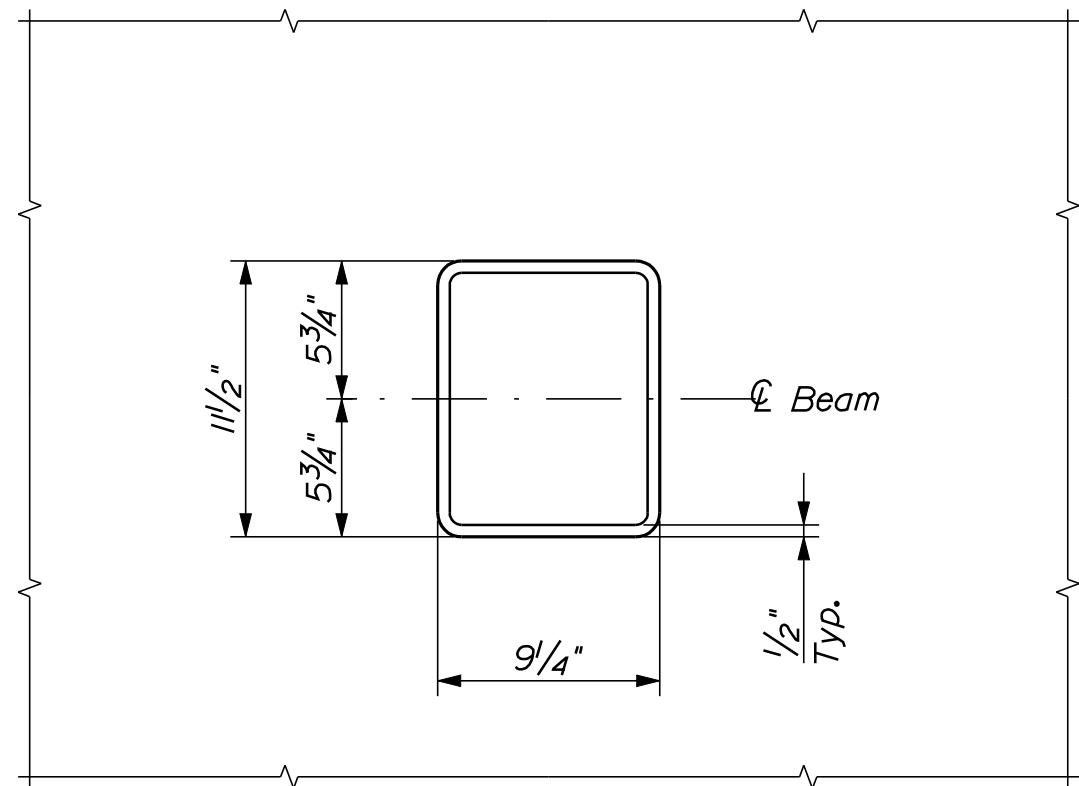
SHEAR KEY DETAIL

REINFORCING BAR LEGEND

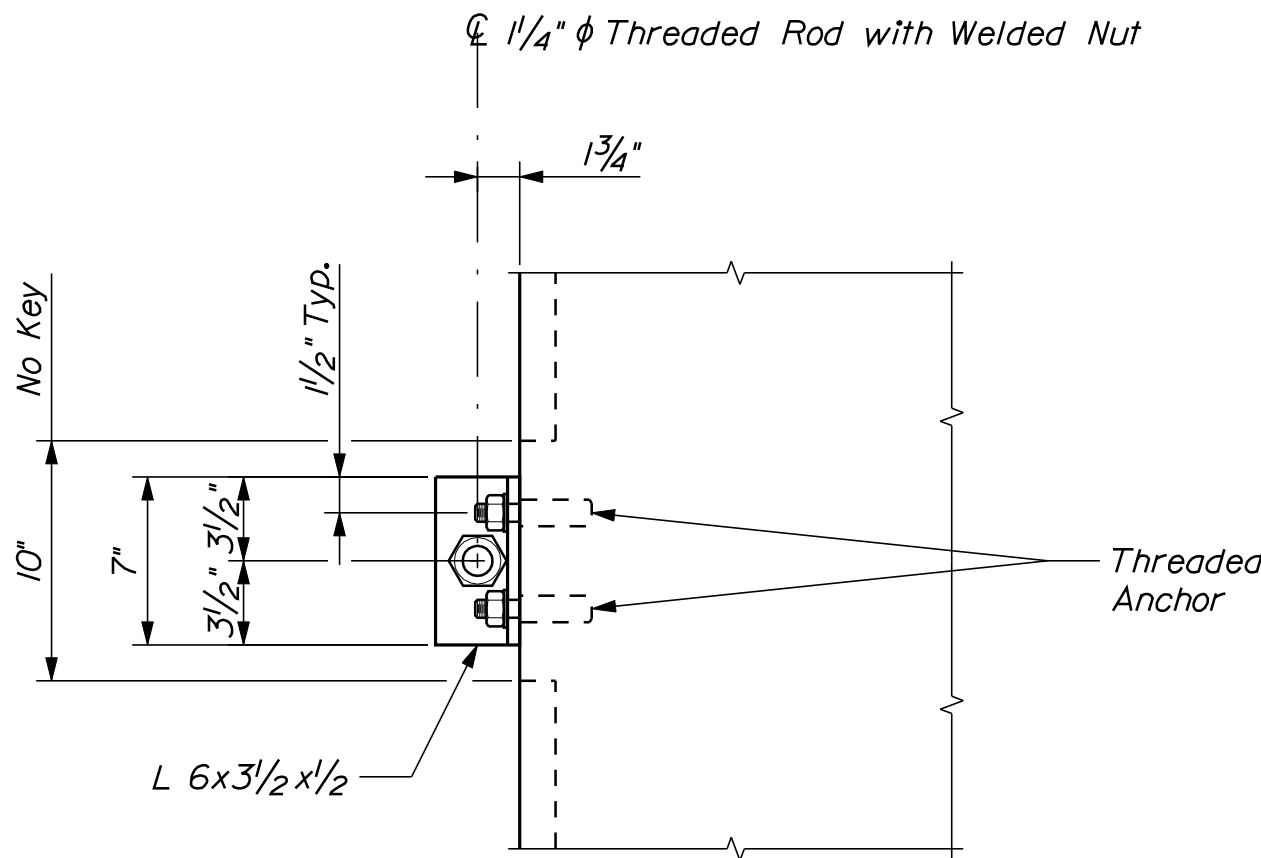


PRECAST CONCRETE DECK PANEL NOTES

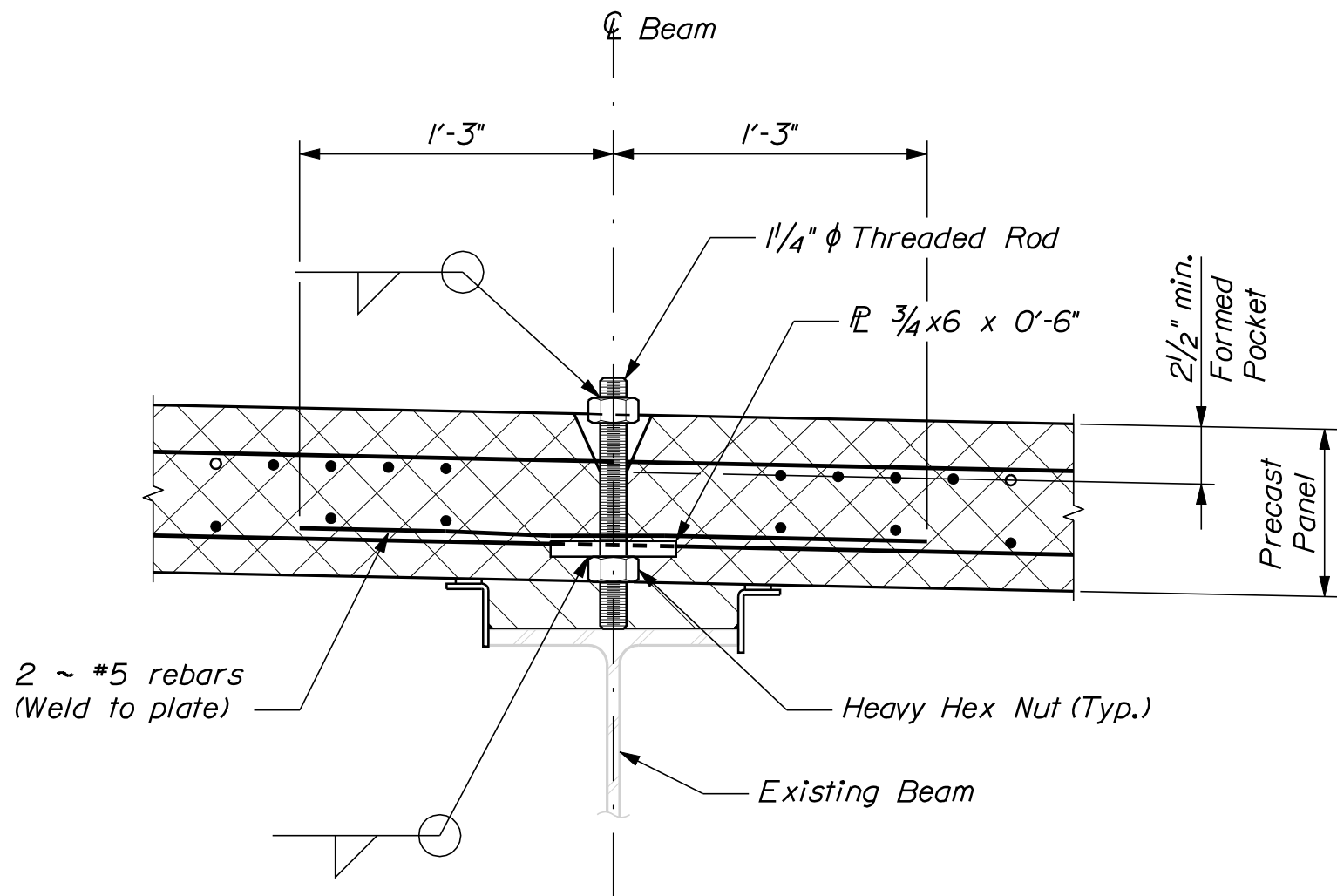
- For additional deck details not shown, refer to Standard Details 502(03) through 502(06).
- For the purposes of these details, the terms "Transverse" and "Longitudinal" refer to the orientation of the bridge, i.e. transverse is perpendicular to the girder centerlines.
- All transverse bars shall be distributed proportionately between shear connector blockouts and panel ends.
- All reinforcing steel projecting from the edges of panels shall be laterally offset from the reinforcing in adjacent panels to allow the panels to be set in place without the need to field bend reinforcing. All reinforcing located within field cast joints shall be detailed to provide non-contact lap splices with a minimum of 2 in. clear spacing between bars. A maximum clear spacing of up to one half the bar spacing may be provided.
- Vertical adjustment devices shall use a machine bolt, or similar, to allow for vertical adjustment of the precast panels. The vertical adjustment devices shall be adjusted to the calculated blocking distance prior to panel erection. Final adjustments to the panel elevations shall be made as required after all the panels in each construction phase have been set.
- The location, spacing, size, and final details of the vertical adjustment devices shall be determined by the Contractors Engineer. The vertical adjustment devices shall be designed to carry at least 150% of the combined load on the device including the precast panel, construction loads, and traffic loads.
- The bolts for the vertical adjustment devices shall be completely removed after the Ultra-high performance concrete (grout) has achieved a minimum compressive strength of 4000 psi. The resulting voids shall be filled with an approved non-shrink grout selected from MaineDOT's Qualified Products List.
- The Contractor shall exercise care in lifting, handling, storing, and transporting the precast deck panels to prevent cracking or damage. The lifting devices for the panels shall be located, designed, and detailed by the Contractor's Engineer.
- Precast curb shall be formed such that the fascia side of the barrier or curb is vertical after the panel is erected.
- UHPG shall be used to completely fill all field cast joints including beam haunches, shear connector and drain blockouts, transverse panel joints, longitudinal panel joints and deck end placements.
- Form a V-groove on the fascias at the horizontal joint between the curb and slab.
- UHPG shall reach a minimum compressive strength of 14.5 ksi prior to opening the bridge to vehicles or equipment weighing more than 2000 pounds.
- A minimum clear cover of one inch shall be provided between all reinforcement and all shear keys, shear connector blockouts, and drain blockouts after accounting for reasonable fabrication and construction tolerances.
- All surfaces that will be in contact with UHPG shall have an exposed aggregate finish.
- The concrete sidewalk shall not be precast.



SHEAR STUD BLOCK - OUT PLAN

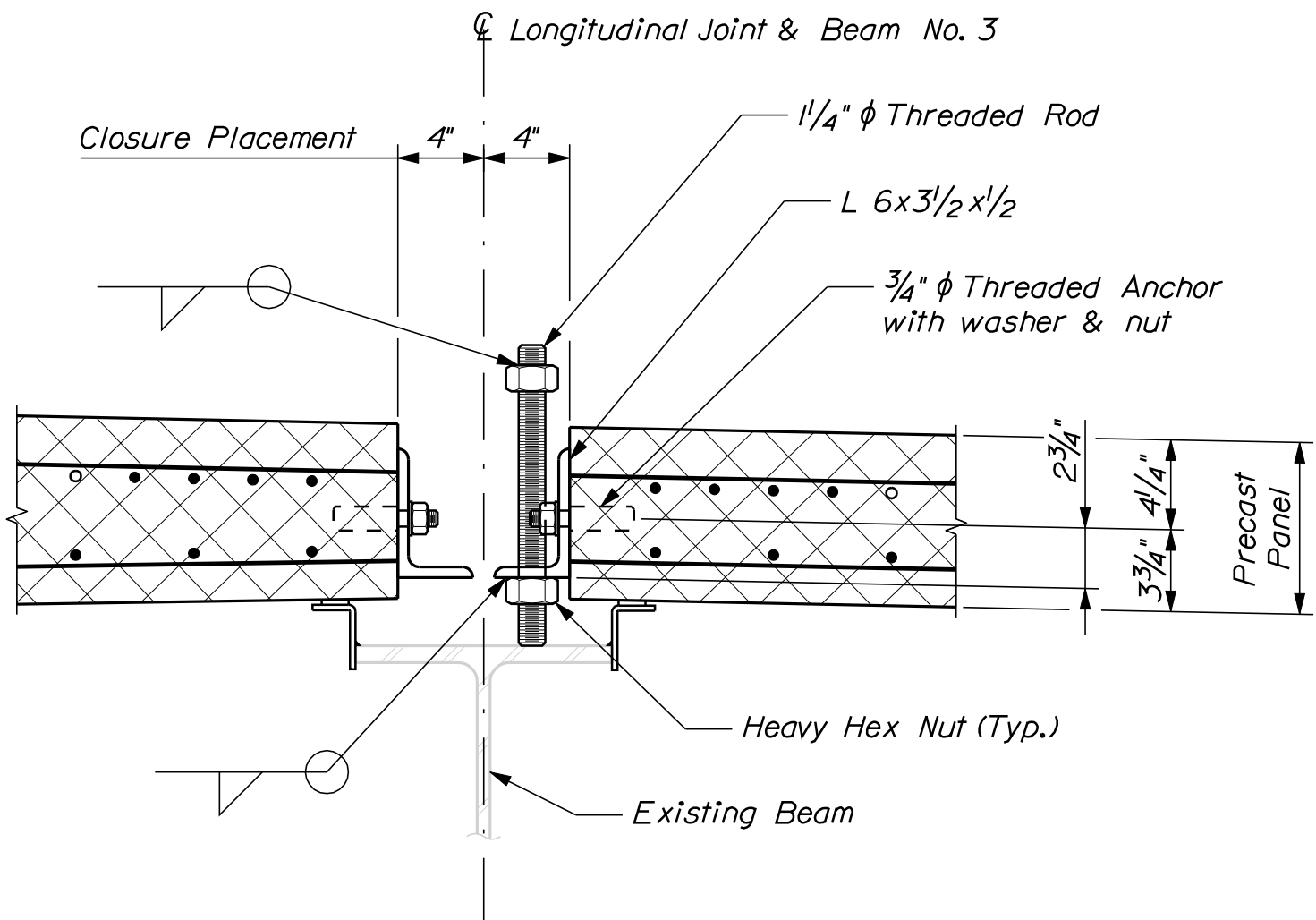


EXTERIOR VERTICAL ADJUSTMENT ASSEMBLY PLAN



INTERIOR VERTICAL ADJUSTMENT ASSEMBLY

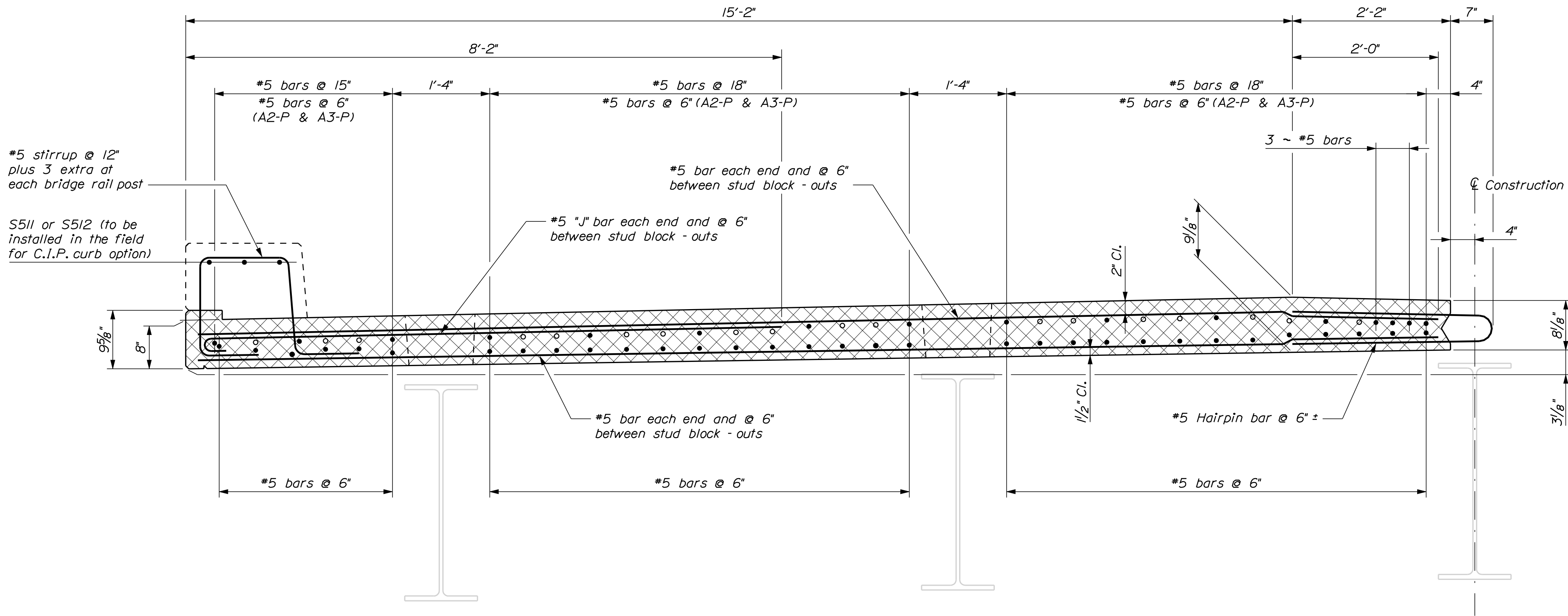
Apply bond breaker to threaded rod.  
Remove rod after closure placement is made.  
Clean hole and fill with grout.



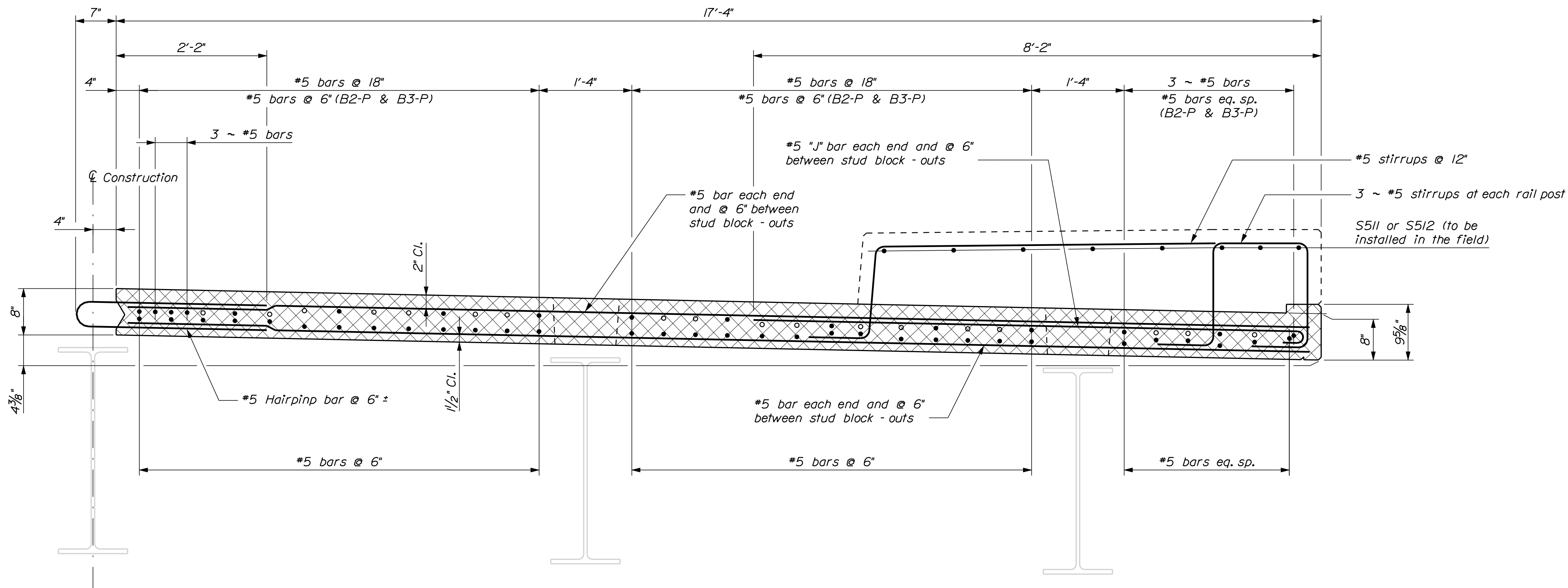
EXTERIOR VERTICAL ADJUSTMENT ASSEMBLY DETAIL

Apply bond breaker to threaded rod.  
Remove rod after closure placement is made.  
Clean hole and fill with grout.

CENTRE STREET CONNECTION U.S. ROUTE 1 SAGADAHOC COUNTY BATH			PROJ. MANAGER J. Kirtledge	BY D. Domren	DATE Oct. 2017
PRECAST PANEL DETAILS			DESIGN-DETAILED	D. Domren	
			CHECKED-REVIEWED	WSP	Nov. 2017
			DESIGN2-DETAILED2		
			DESIGN3-DETAILED3		
			REVISIONS 1		
			REVISIONS 2		
			REVISIONS 3		
			REVISIONS 4		
			FIELD CHANGES		
SHEET NUMBER			DATE		
39			P.E. NUMBER		
OF 53			SIGNATURE		
			DATE		
			WIN		
			BRIDGE NO. 6142 18725.00 & 18725.10		
			BRIDGE PLANS		
			STATE OF MAINE		
			DEPARTMENT OF TRANSPORTATION		
			STP-1872(500)		



TRANSVERSE SECTION ~ TYPE "A" DECK PANEL

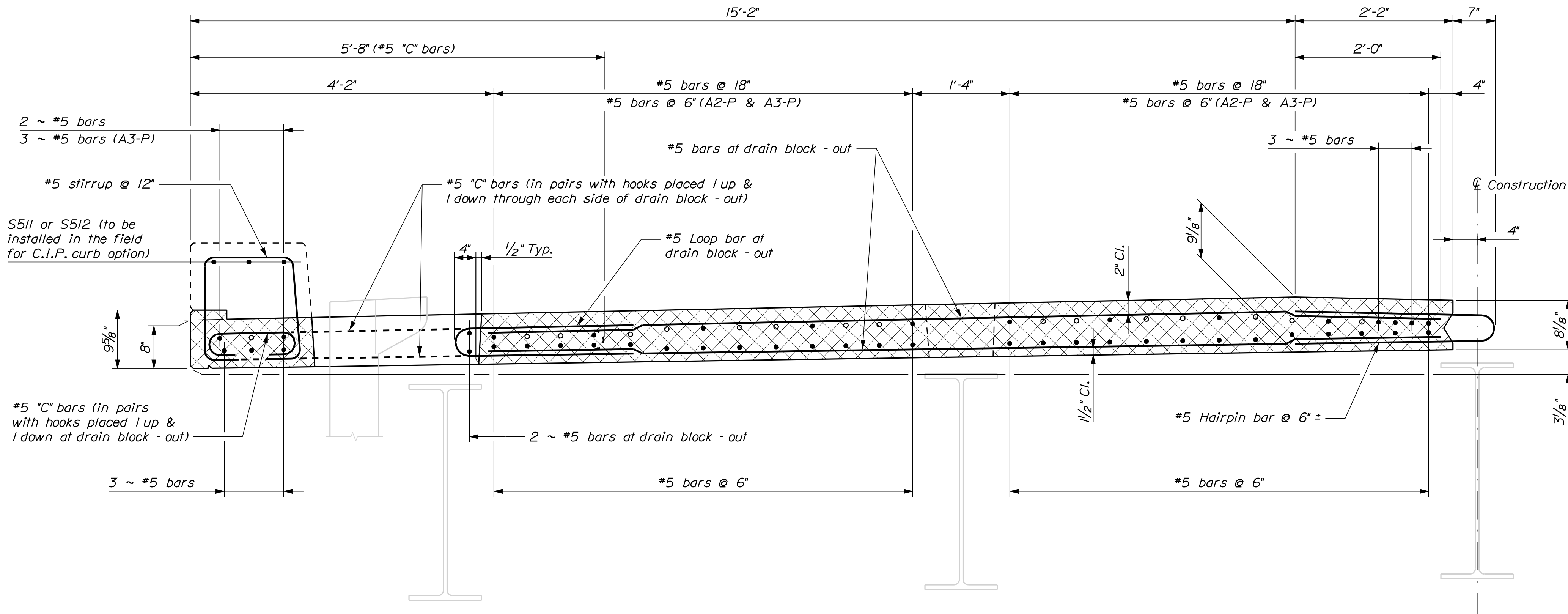


TRANSVERSE SECTION ~ TYPE "B" DECK PANEL

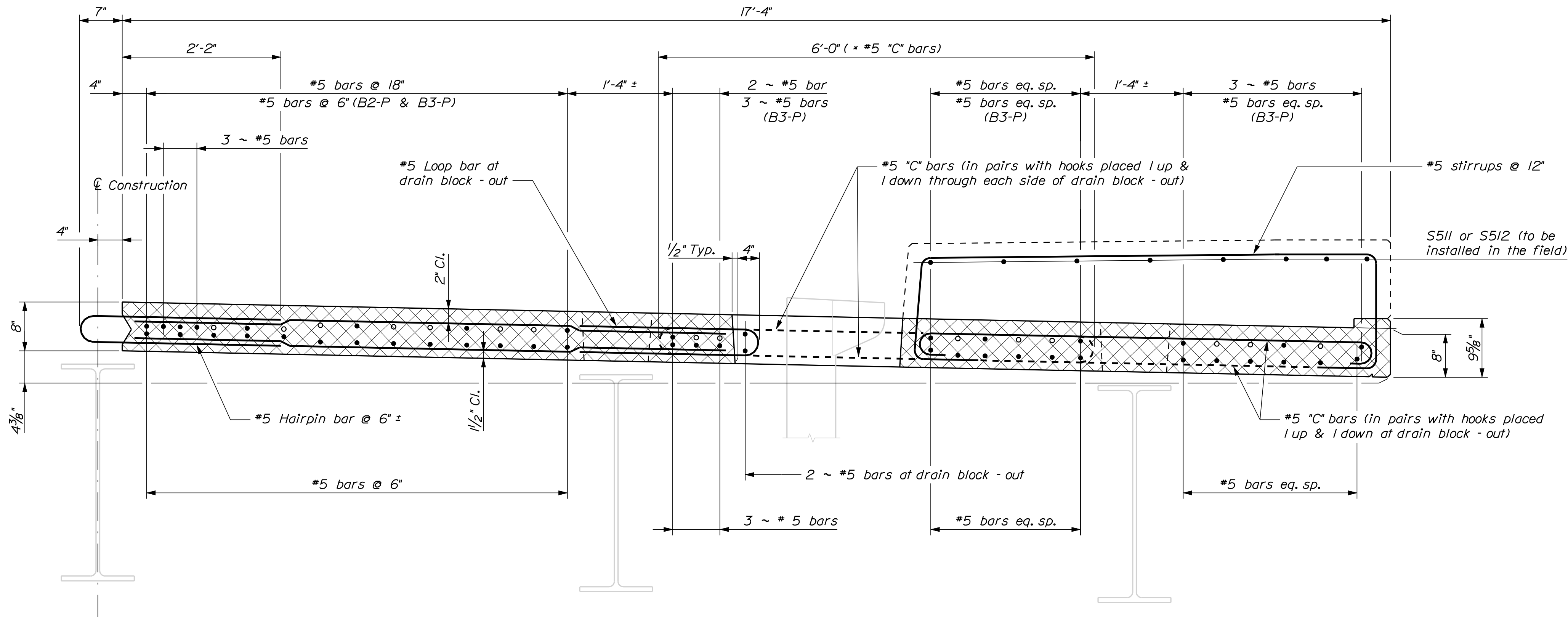
PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE
J. Kirtledge	D. Eaton	D. Damren	WSP	Oct. 2017
DESIGNS DETAILLED	DESIGNS DETAILLED	DESIGNS DETAILLED	DESIGNS DETAILLED	DESIGNS DETAILLED
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	REVISIONS 5
FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES





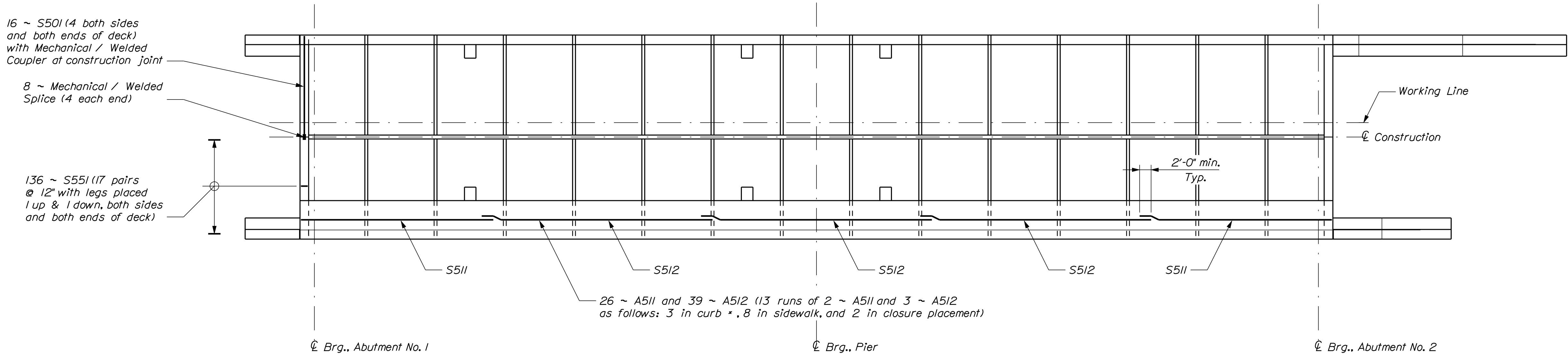


TRANSVERSE SECTION AT DRAIN BLOCK - OUT ~ TYPE "A3" & "A3-P" DECK PANEL



TRANSVERSE SECTION AT DRAIN BLOCK - OUT ~ TYPE "B3" & "B3-P" DECK PANEL

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BATH		SAGadahoc COUNTY	
CENTRE STREET CONNECTION		U.S. ROUTE 1	
PRECAST PANEL SECTIONS		STP-1872(500)	
SHEET NUMBER		WIN	
42		BRIDGE NO. 6142	
OF 53		18725.00 & 18725.10	
		BRIDGE PLANS	
PROJ. MANAGER	J. Kirtledge	BY	D. Damren
CHECKED-REVIEWED	D. Eaton	DATE	Oct. 2017
DESIGN-REVIEWED	WSP		Nov. 2017
DESIGNS DETAILLED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



SUPERSTRUCTURE REINFORCING PLAN  
\* For curb placed in the field

APPROXIMATE UHPC QUANTITIES	
Deck End Placements	5 C.Y.
Transverse Joints ~ "A" Side	3.8 C.Y.
Transverse Joints ~ "B" Side	3.6 C.Y.
Longitudinal Joint & Blocking	4.6 C.Y.
Other Blocking	6 C.Y.
Stud Pockets	6 C.Y.
Drain Blockouts	1 C.Y.
Total UHPC	30 C.Y.

TOP OF SLAB ELEVATIONS																				
Girder	℄ A1	10'	20'	30'	40'	50'	60'	70'	80'	Pier	10'	20'	30'	40'	50'	60'	70'	80'	℄ A2	Girder
S1	56.14	56.37	56.59	56.76	56.91	57.00	57.09	57.17	57.25	57.31	57.40	57.47	57.54	57.60	57.64	57.66	57.67	57.65	57.63	S1
S2	56.28	56.52	56.73	56.90	57.05	57.15	57.23	57.31	57.39	57.45	57.54	57.64	57.74	57.81	57.87	57.88	57.87	57.82	57.77	S2
S3	56.32	56.56	56.77	56.95	57.09	57.19	57.27	57.35	57.44	57.49	57.58	57.68	57.78	57.85	57.91	57.92	57.91	57.86	57.81	S3
S4	56.18	56.42	56.63	56.80	56.95	57.05	57.13	57.21	57.29	57.35	57.44	57.54	57.64	57.71	57.77	57.78	57.77	57.72	57.67	S4
S5	56.04	56.27	56.49	56.66	56.81	56.90	56.99	57.07	57.15	57.21	57.30	57.37	57.44	57.50	57.54	57.56	57.57	57.55	57.53	S5

BOTTOM OF SLAB ELEVATIONS																				
Girder	℄ A1	10'	20'	30'	40'	50'	60'	70'	80'	Pier	10'	20'	30'	40'	50'	60'	70'	80'	℄ A2	Girder
S1	55.45	55.69	55.90	56.07	56.22	56.32	56.40	56.48	56.56	56.62	56.71	56.78	56.86	56.91	56.95	56.97	56.98	56.96	56.94	S1
S2	55.55	55.79	56.00	56.17	56.32	56.42	56.50	56.58	56.66	56.72	56.81	56.91	57.01	57.08	57.14	57.15	57.14	57.09	57.04	S2
S3	55.65	55.88	56.10	56.27	56.42	56.52	56.60	56.68	56.76	56.82	56.91	57.00	57.10	57.18	57.23	57.25	57.24	57.19	57.14	S3
S4	55.51	55.75	55.96	56.13	56.28	56.38	56.46	56.54	56.63	56.68	56.77	56.87	56.97	57.04	57.10	57.11	57.10	57.05	57.00	S4
S5	55.37	55.61	55.82	55.99	56.14	56.24	56.32	56.40	56.48	56.54	56.63	56.70	56.78	56.83	56.87	56.89	56.90	56.88	56.86	S5

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1872(500)  
WIN  
BRIDGE NO. 6142 18725.00 & 18725.10  
BRIDGE PLANS

CENTRE STREET CONNECTION  
U.S. ROUTE 1  
BATH  
SAGADAHOE COUNTY  
SPR. REINF. & PC SLAB ELEV'S

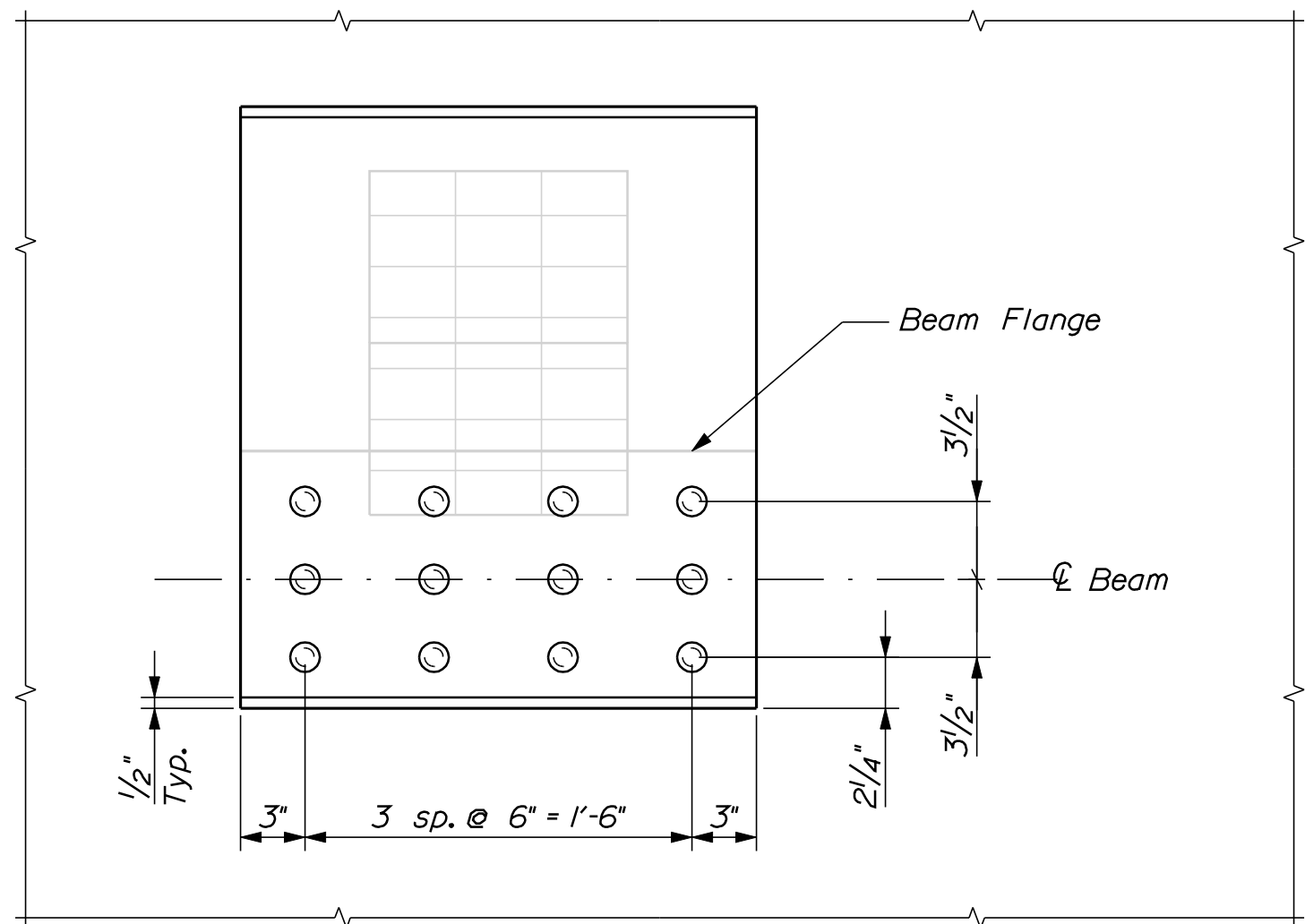
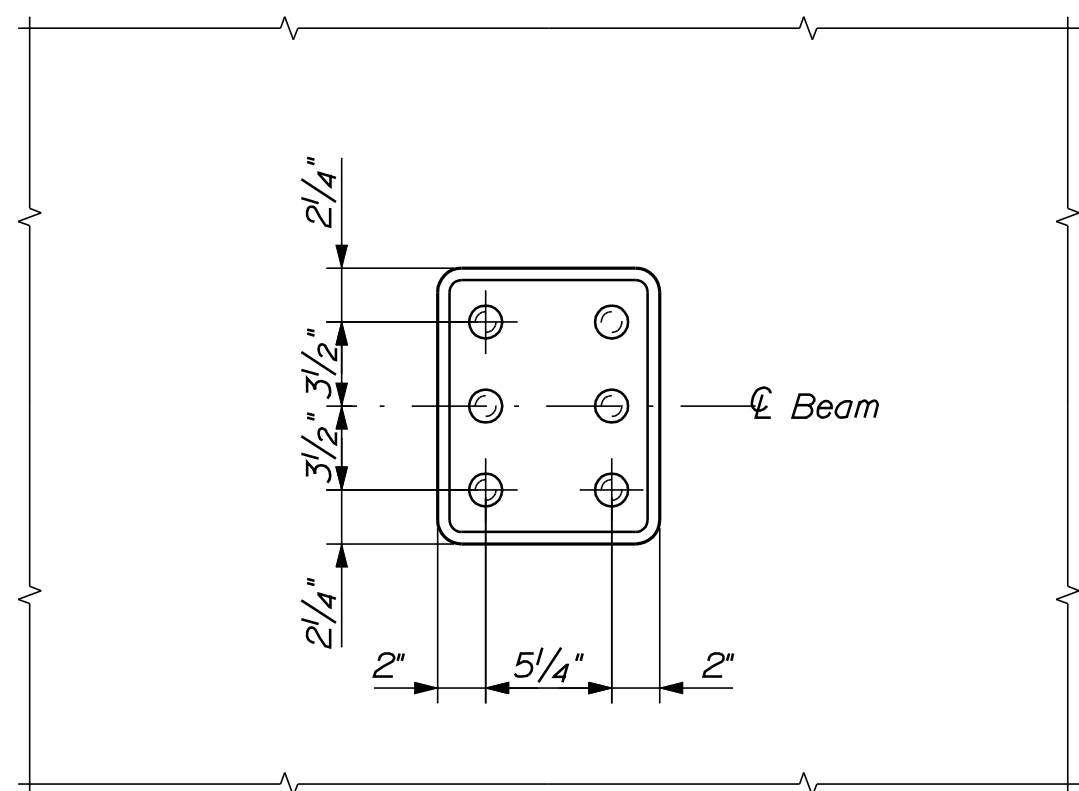
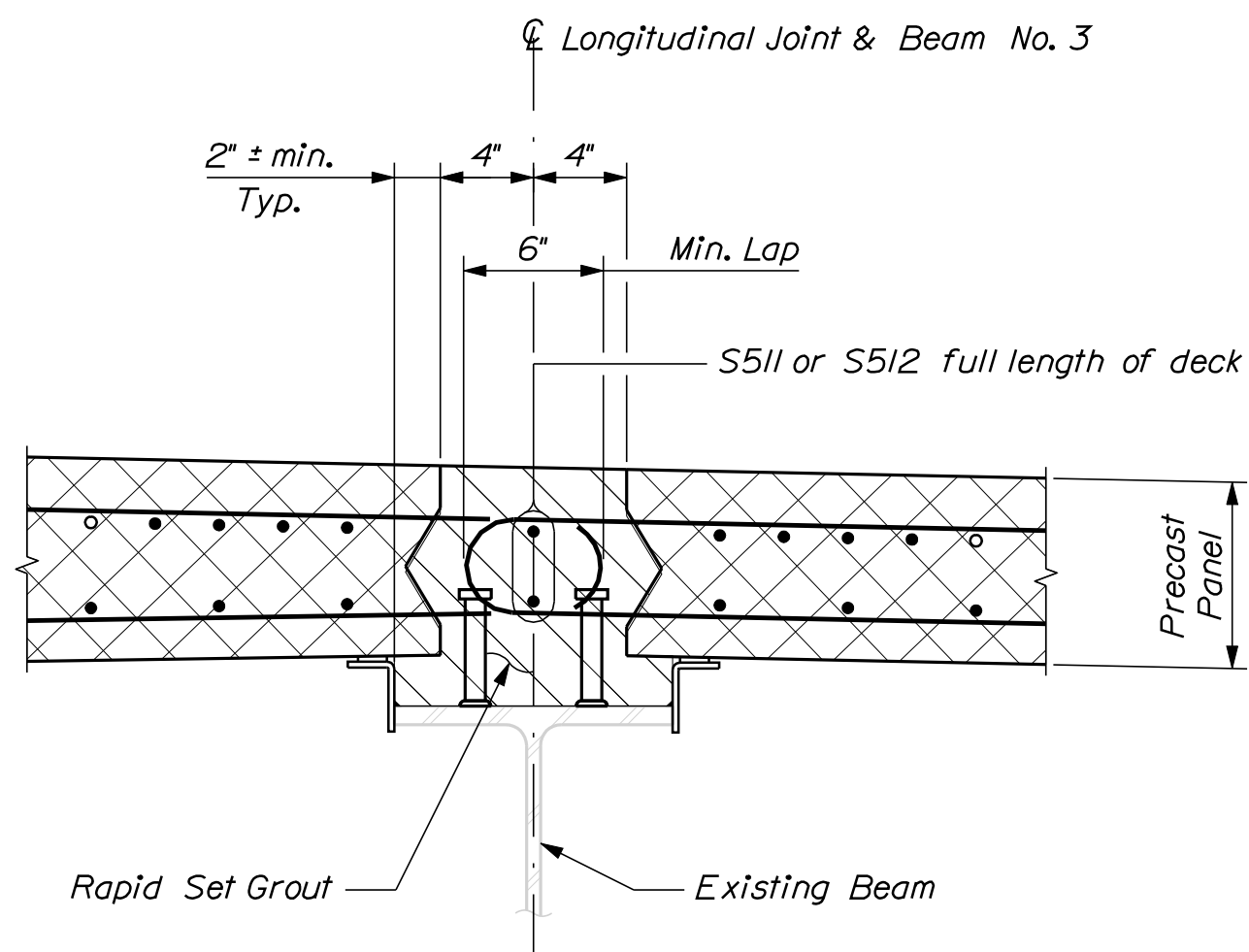
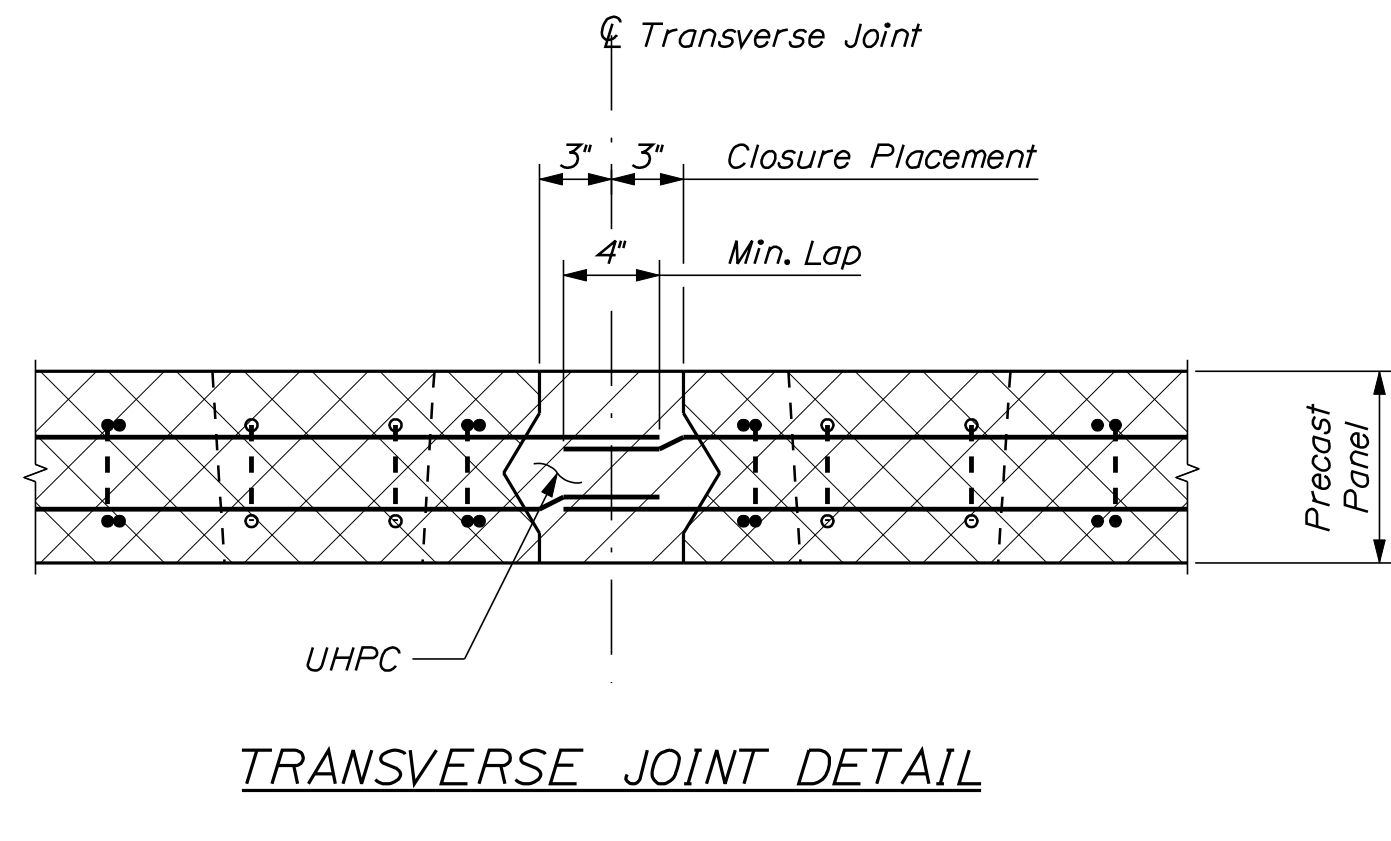
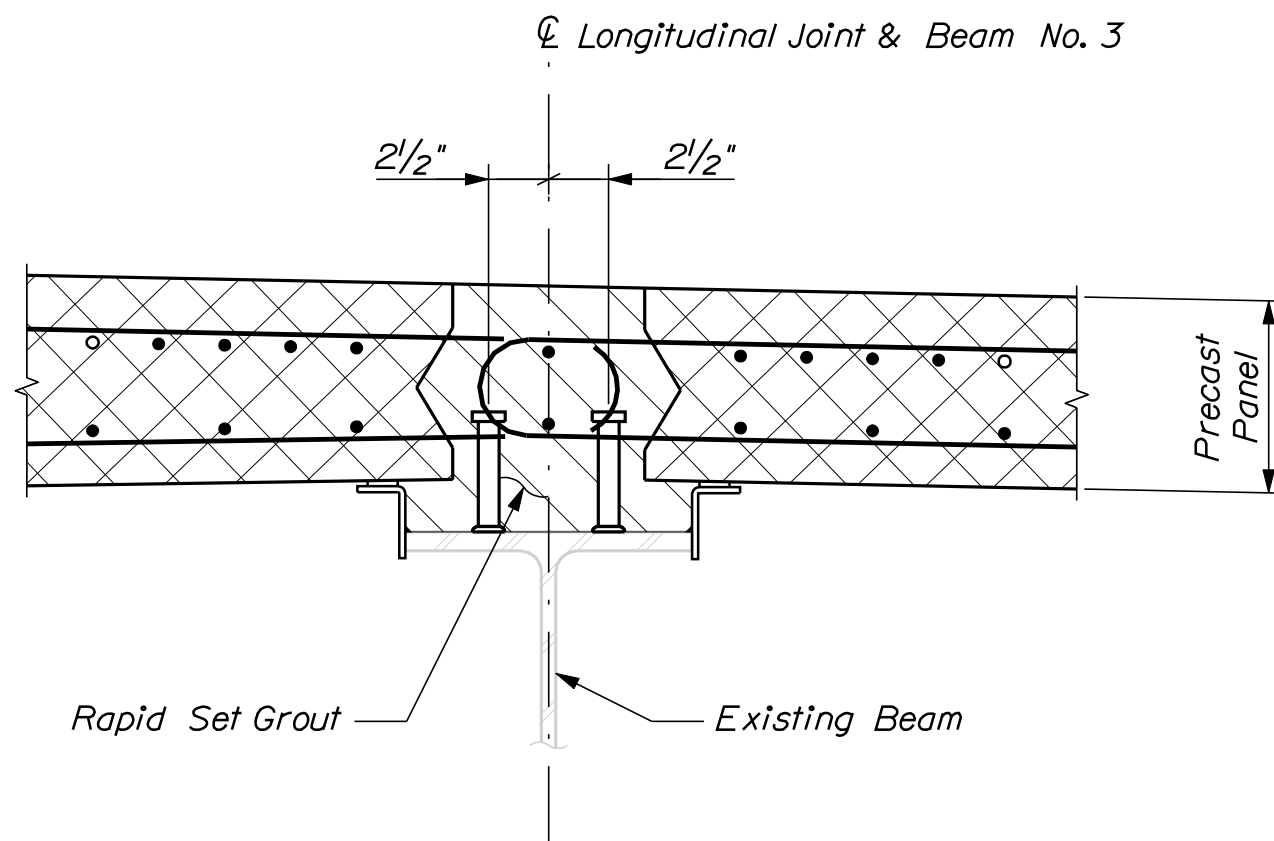
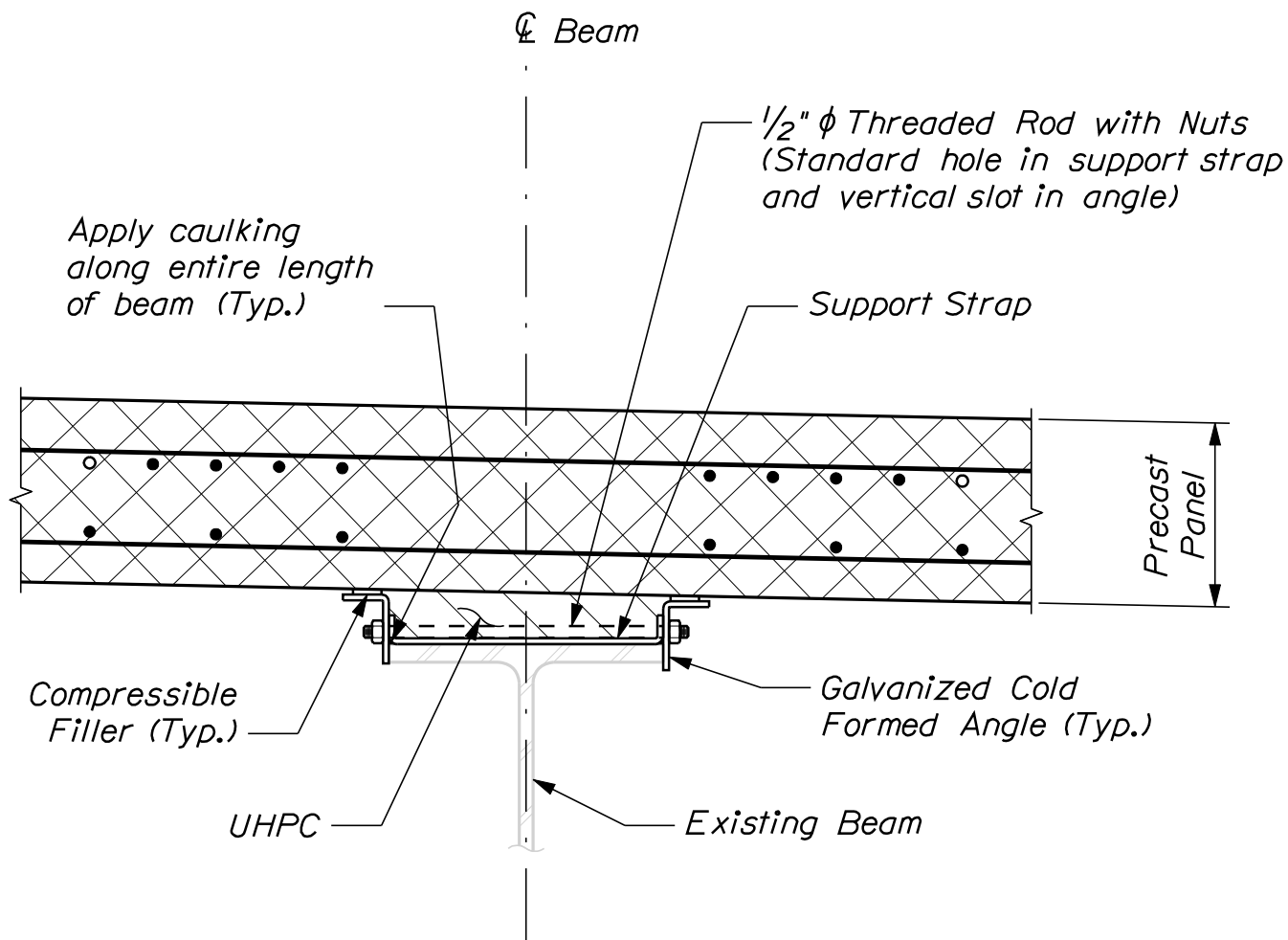
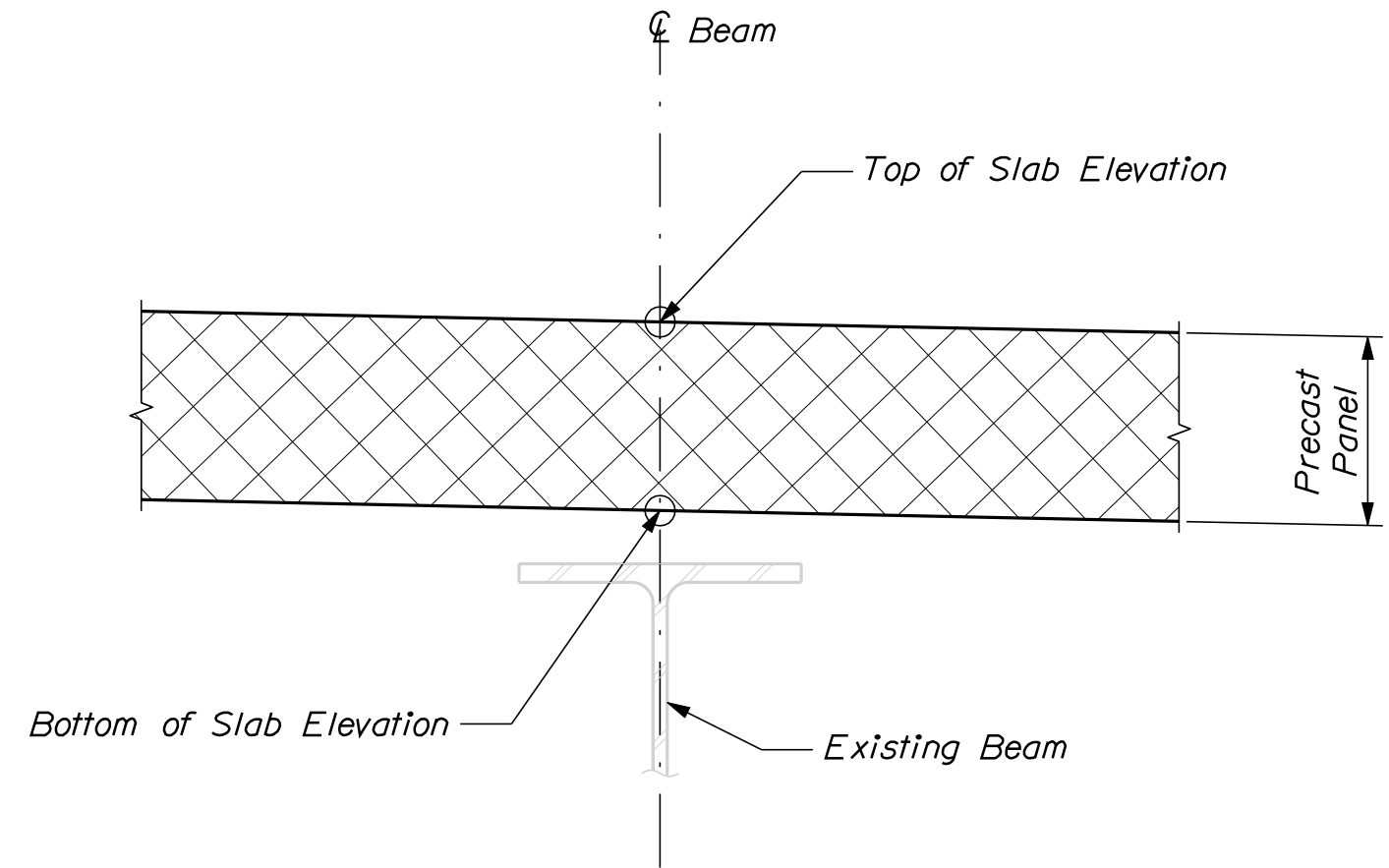
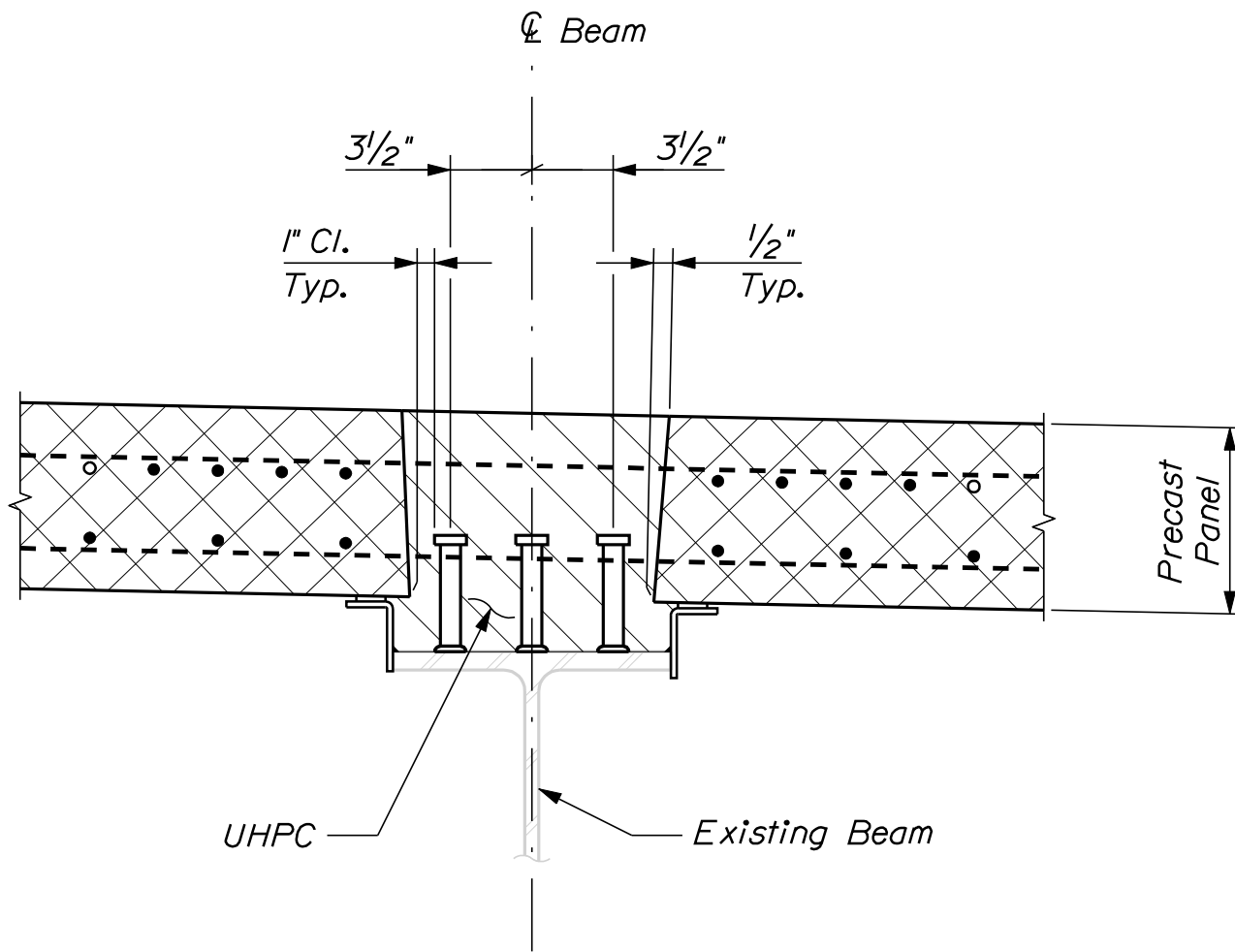
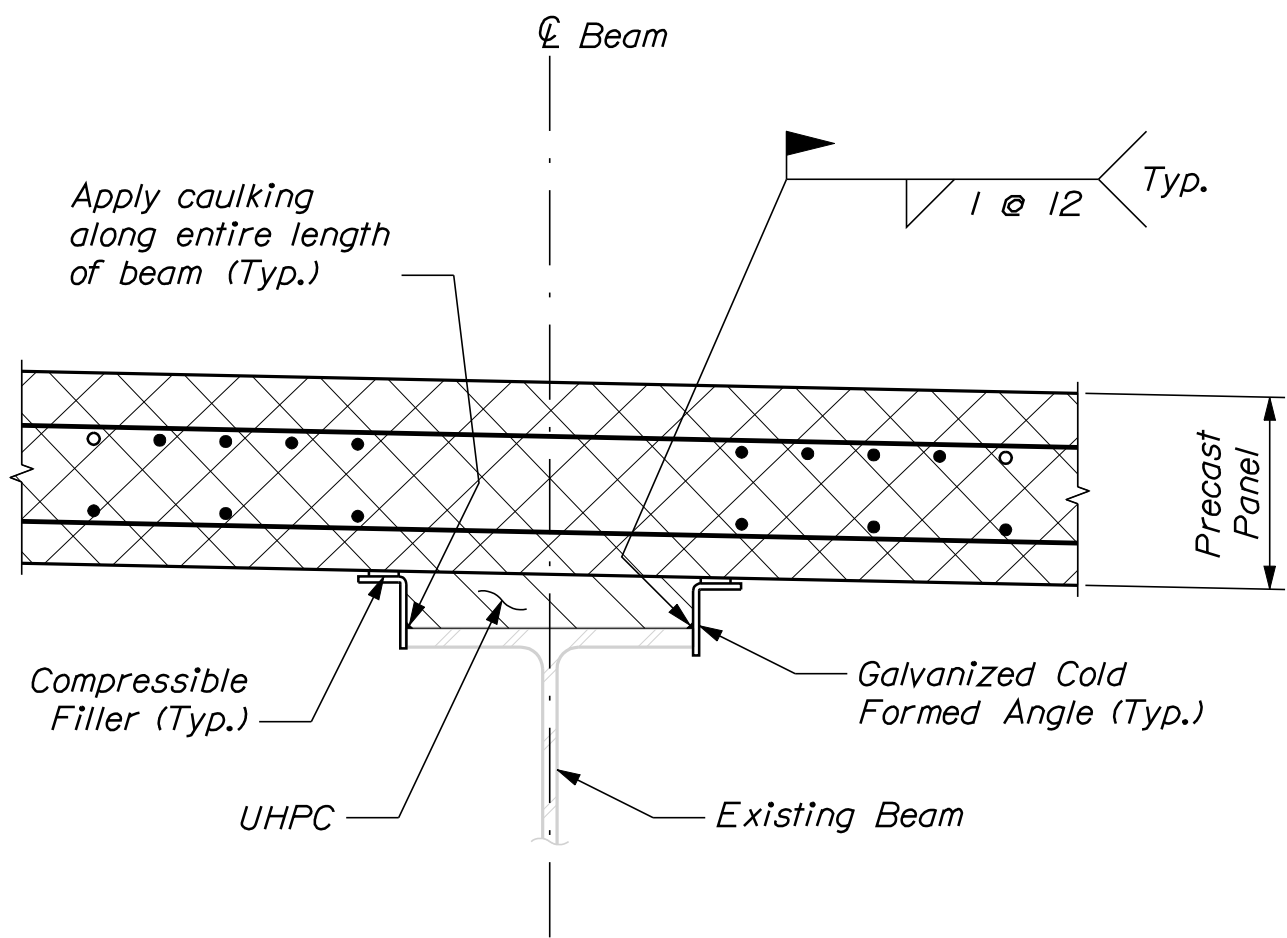
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OF 53

PROJ. MANAGER  
DESIGN-DETAILED  
CHECKED-REVIEWED  
DESIGN-DETAILED  
REVISIONS 1  
REVISIONS 2  
REVISIONS 3  
REVISIONS 4  
FIELD CHANGES

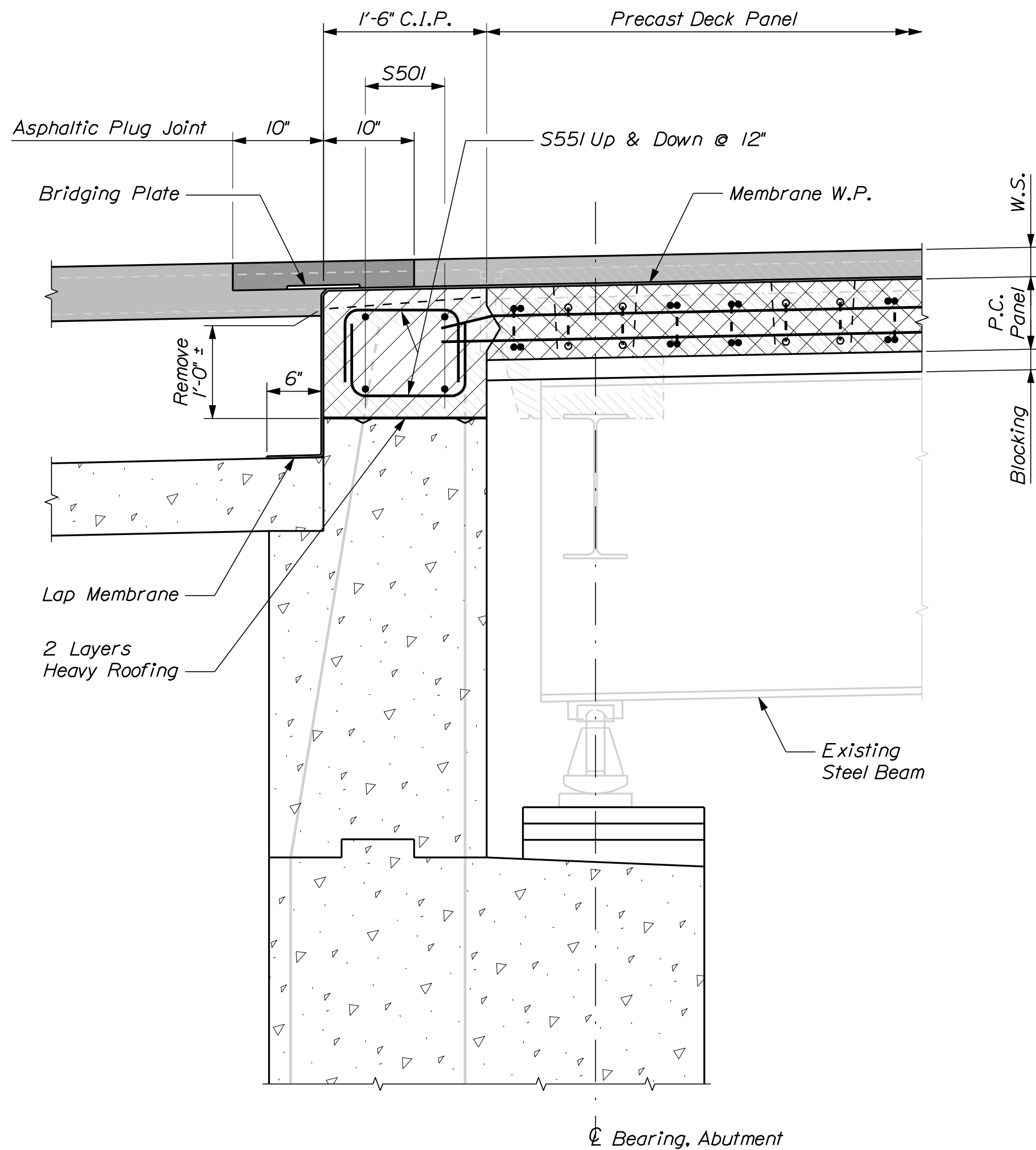
BY  
D. Damren  
WSP

DATE  
Oct. 2017  
Nov. 2017

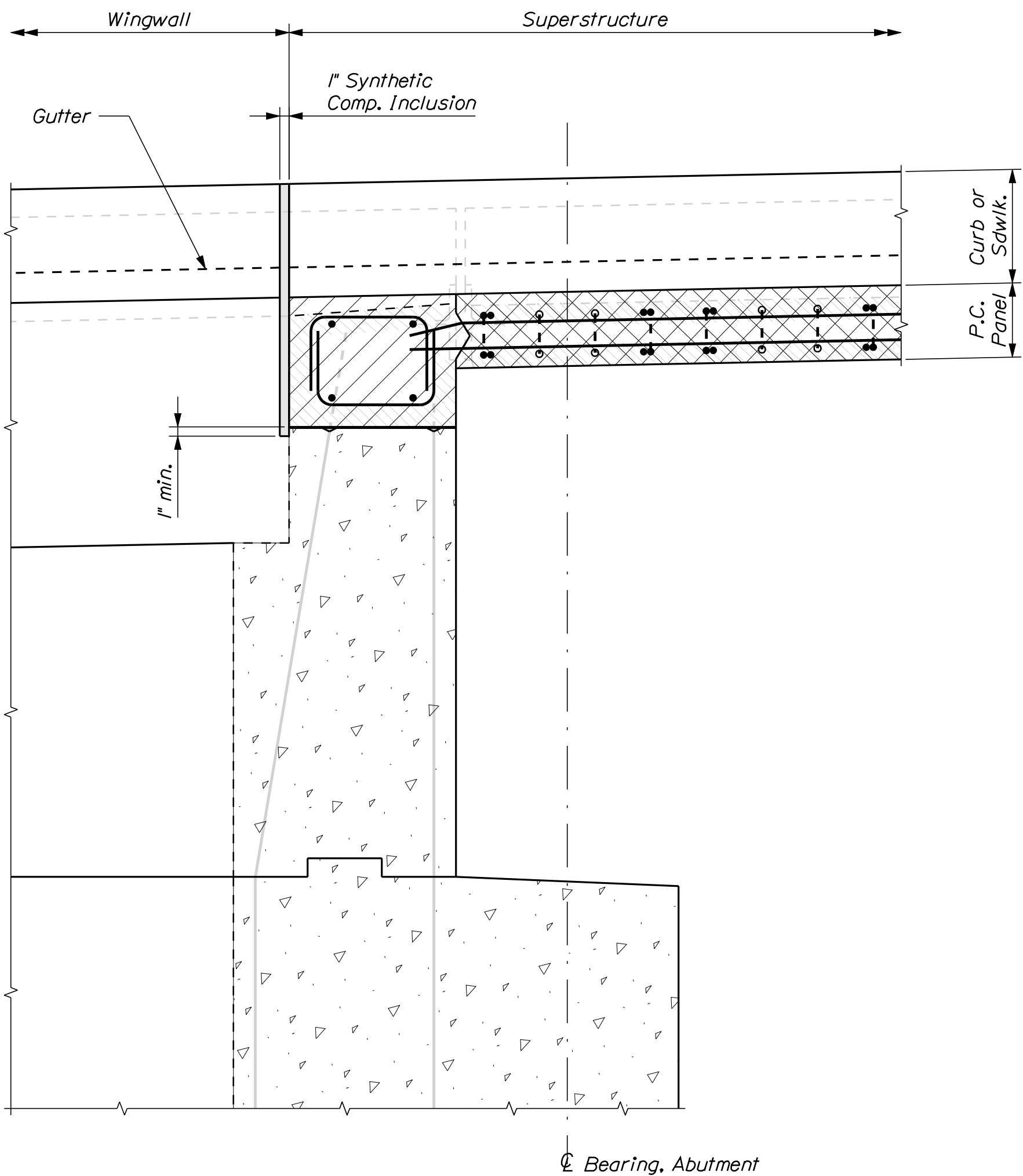
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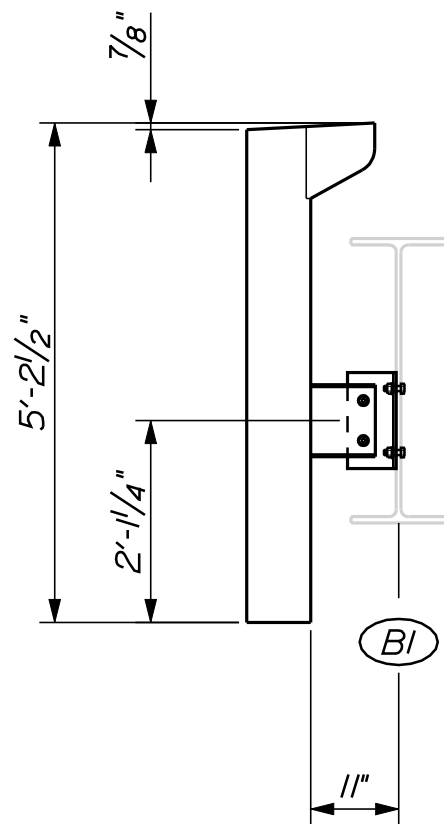
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				DESIGN-DETAILED		D. Eaton		Oct. 2017					
44		SUPERSTRUCTURE DETAILS		CHECKED-REVIEWED		WSP		WSP		Nov. 2017		SIGNATURE	
				DESIGN2-DETAILED2									
				DESIGN3-DETAILED3									
				REVISIONS 1									
				REVISIONS 2									
OF 53				REVISIONS 3								WIN BRIDGE NO. 6142 18725.00 & 18725.10	
				REVISIONS 4									
				FIELD CHANGES									
										DATE		BRIDGE PLANS	



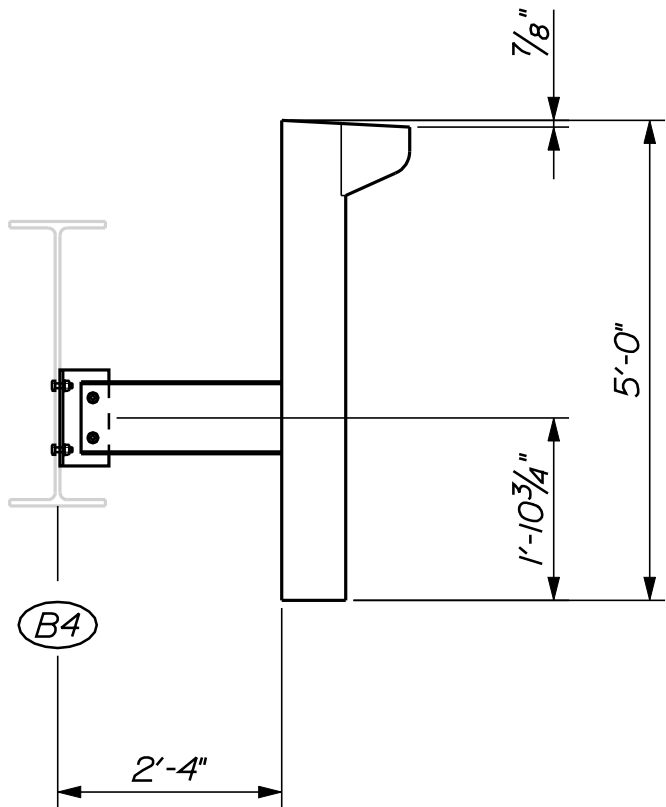
LONGITUDINAL SECTION AT END OF DECK  
Roadway



LONGITUDINAL SECTION AT END OF DECK  
At Inside Face of Wingwall



BRIDGE DRAIN TYPE "B" (MODIFIED)



BRIDGE DRAIN TYPE "B"

SUPERSTRUCTURE NOTES

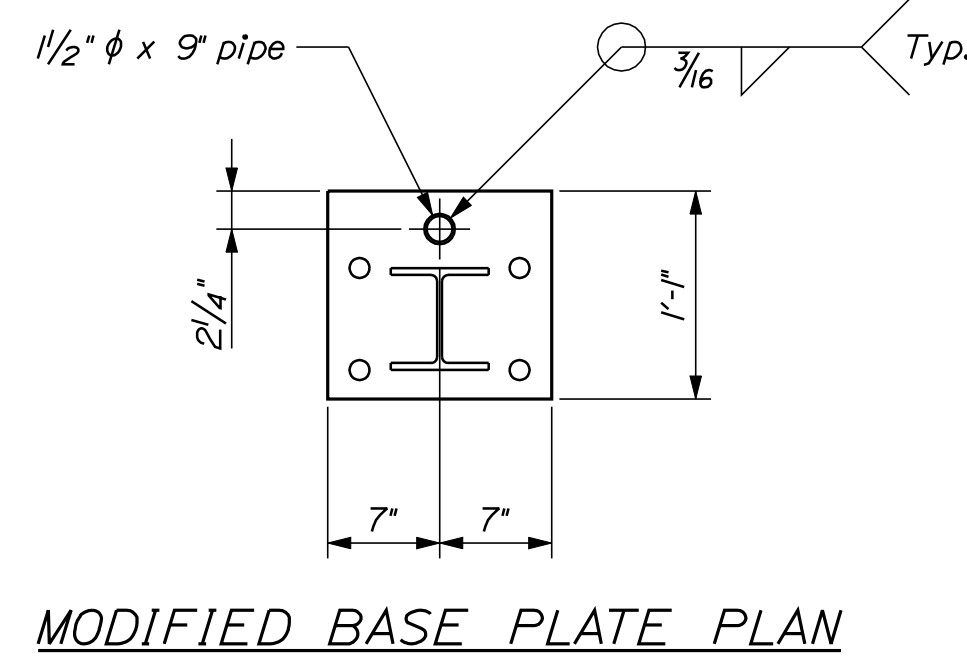
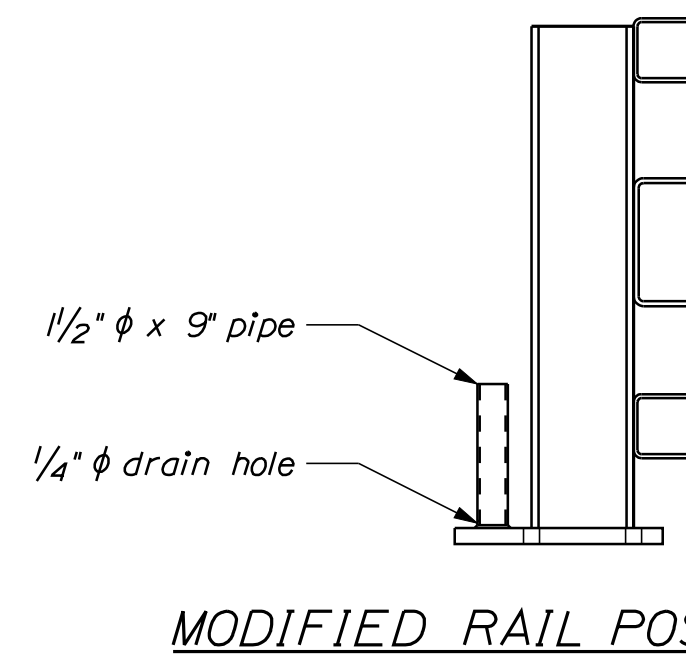
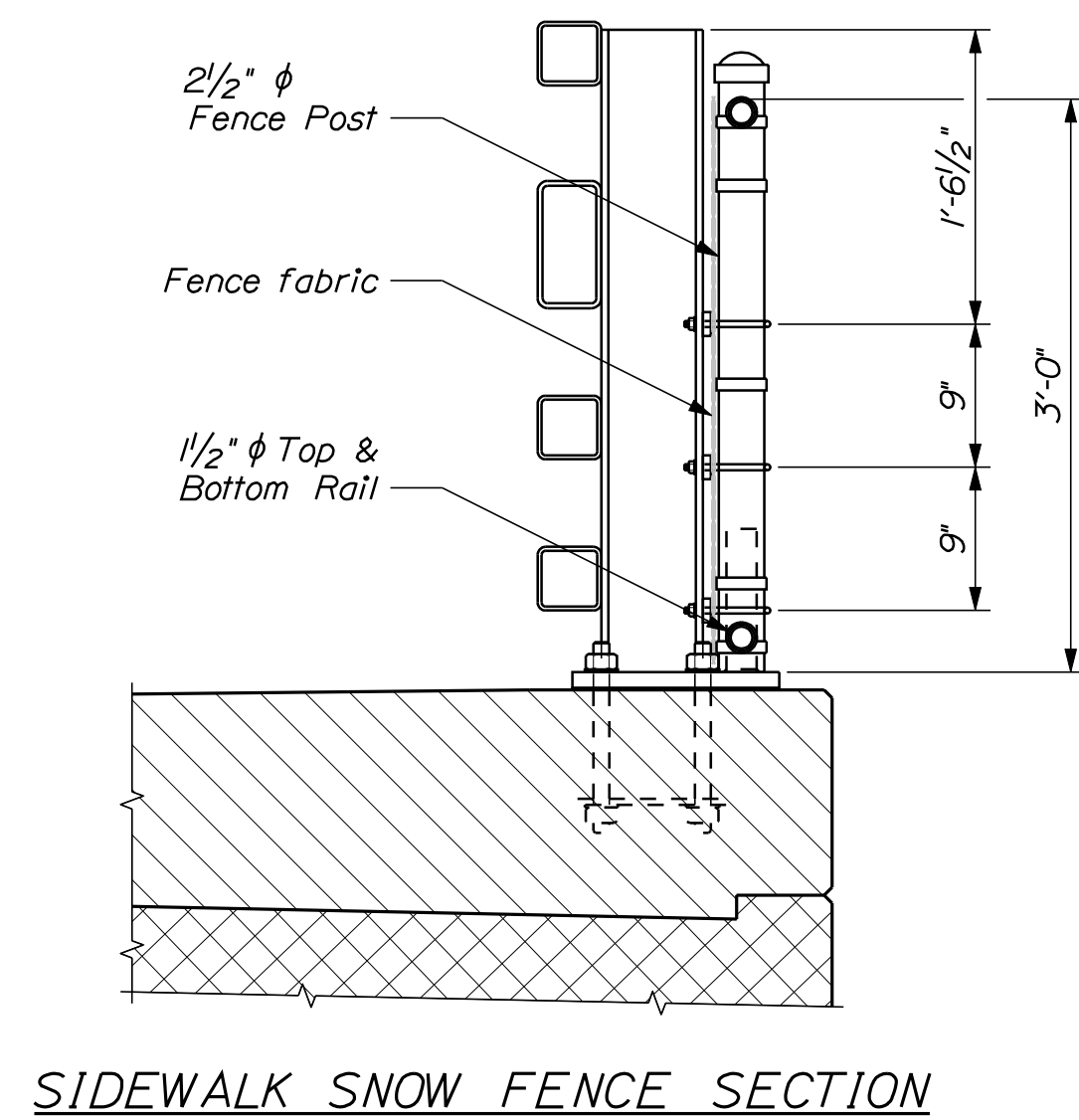
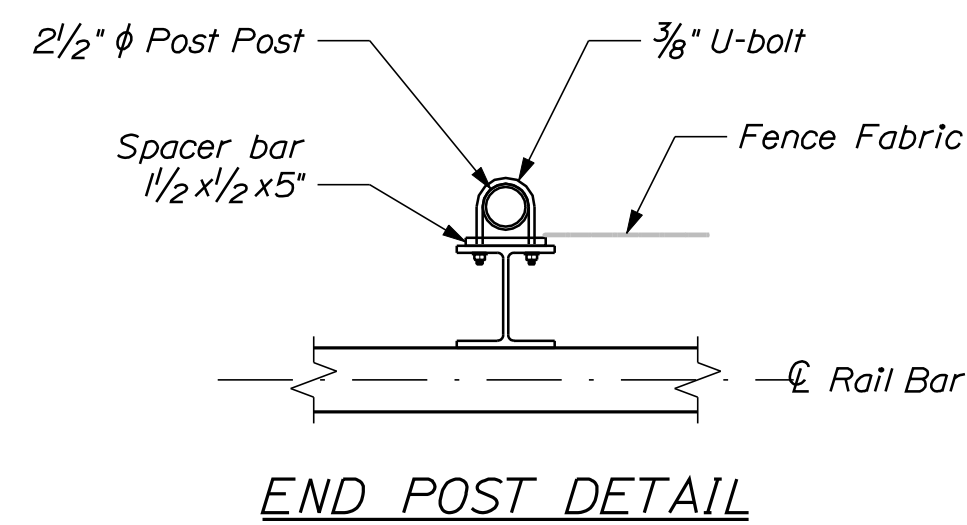
1. The theoretical blocking at the centerline of bearing of the abutments and pier used for design of the structure is shown on the Transverse Section. Do not use theoretical blocking for setting precast panels.
2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
3. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
4. Payment for the synthetic compressible inclusion will be considered incidental to related Contract items.
5. The Top and Bottom of Slab Elevation Tables provided are based on assumptions made during design. The Contractor shall submit proposed bottom of slab elevations, based on surveyed top of beam elevations, to the Department for review. The Department will review the submission within one full business day. Deck concrete placement shall not commence until this review is complete.

PRECAST CONCRETE PANEL ERECTION NOTES

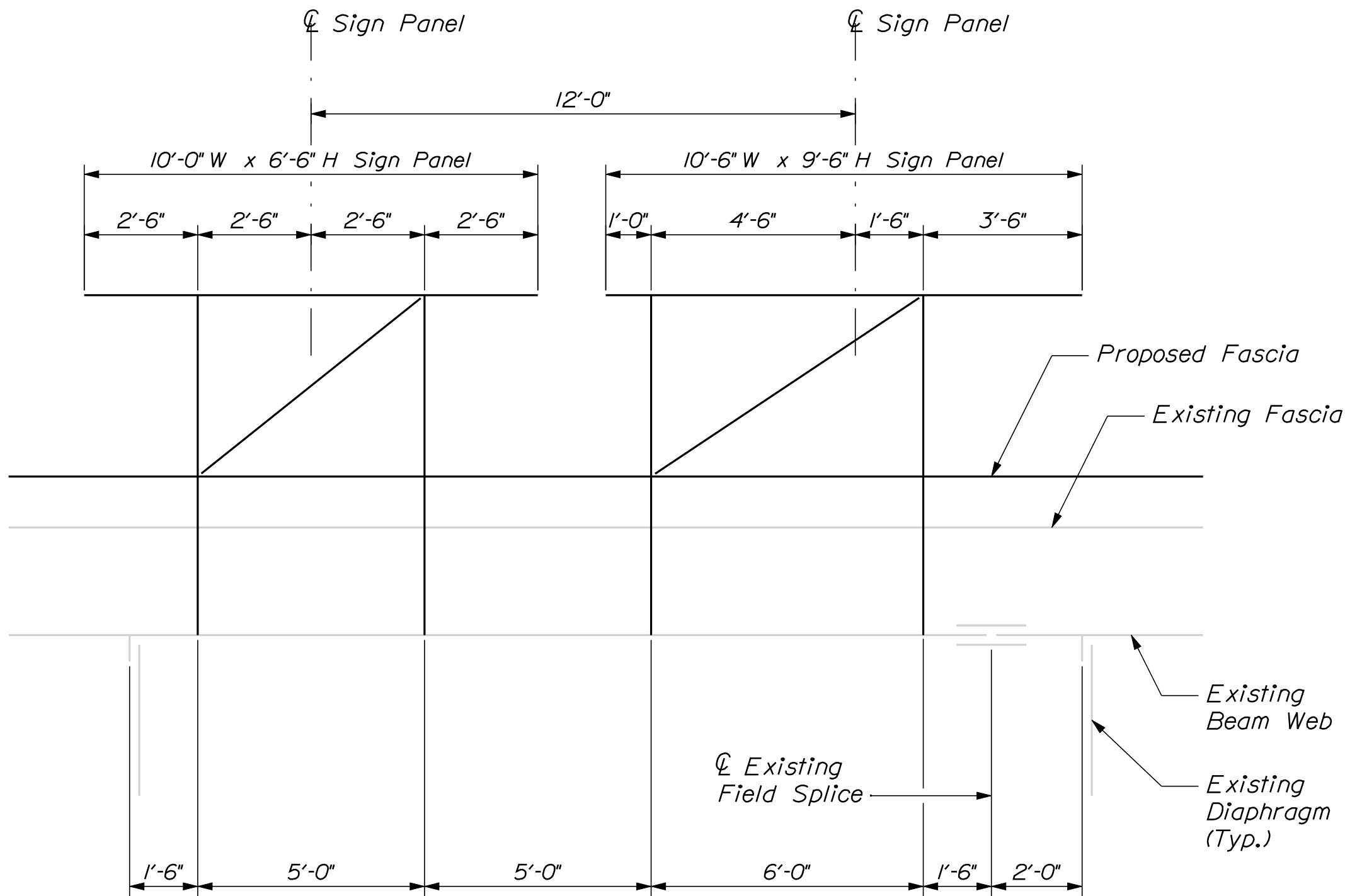
1. The Contractor shall exercise care to ensure that panels are located within 1/4 inch ± transversely and 1/2 inch ± longitudinally of the required panel position.
2. Panels shall be secured to prevent moving or shifting prior to placement and curing of UHPC
3. Preset vertical adjustment assemblies to anticipated blocking height prior to placing panels on girders.
4. Top of panel elevations shall not be finalized until all panels within a given construction phase have been set into position.
5. Panels shall be aligned such that the back face of the curb forms a straight line from end to end of the bridge.
6. Panels shall be erected such that the back face of the curb is vertical once leveling screws have been had their final adjusted.

SHEET NUMBER		CENTRE STREET CONNECTION U.S. ROUTE 1 SAGadahoc COUNTY		PROJ. MANAGER		J. Kittredge	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
				DESIGN-DETAILED		D. Eaton	Oct. 2017			
45		BATH		CHECKED-REVIEWED		WSP	WSP	Nov. 2017	SIGNATURE	
				DESIGN-DETAILED2					P.E. NUMBER	
				DESIGN-DETAILED3					DATE	
				REVISIONS 1						
				REVISIONS 2						
OF 53		SUPERSTRUCTURE DETAILS		REVISIONS 3					BRIDGE NO. 6142	
				REVISIONS 4					WIN	
				FIELD CHANGES					18725.00 & 18725.10	
									BRIDGE PLANS	

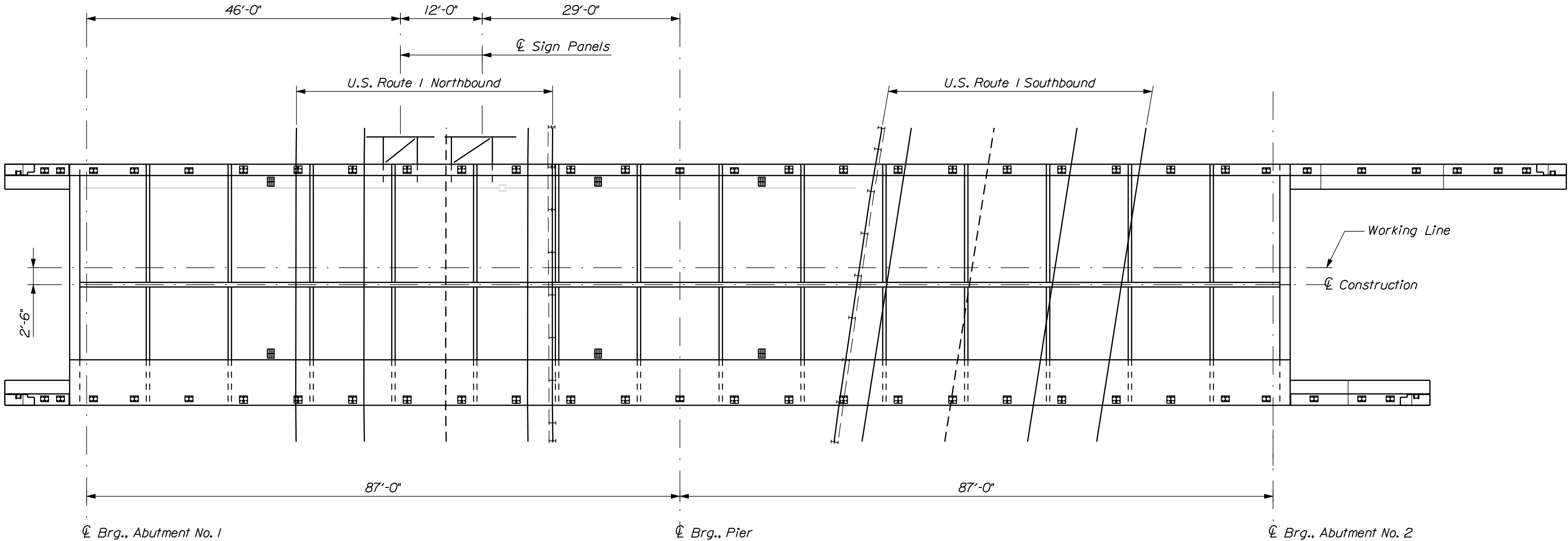




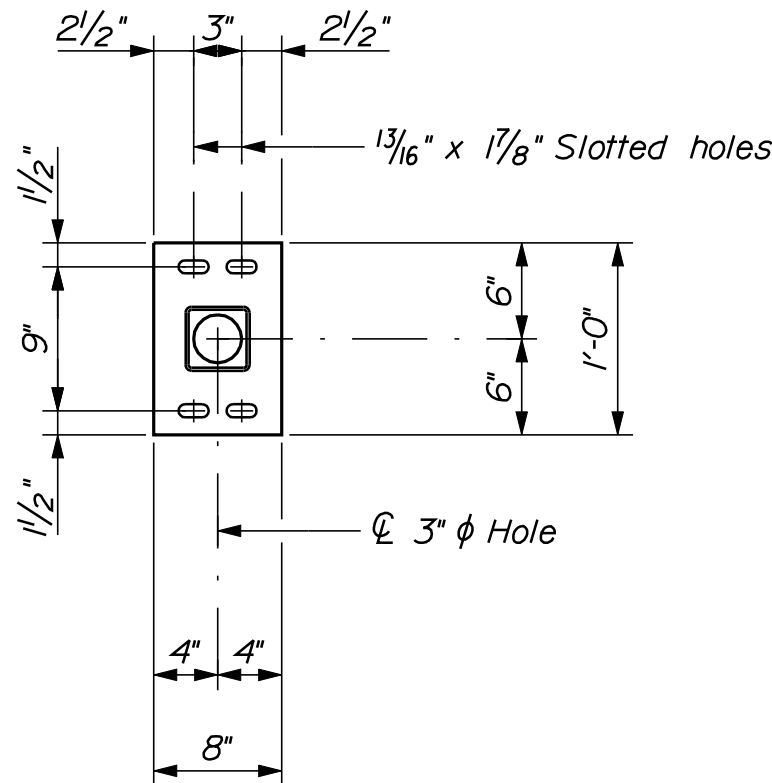
1. Payment for modified rail post base plates will be considered incidental to related contract items.
2. Post and rail pipe shall be hot-dip galvanized steel conforming to AASHTO M 181, Grade 1 (ASTM F 1083) or aluminum alloy conforming to AASHTO M 181 (ASTM B 429, alloy 6063-T61). All pipe shall be schedule 40, standard weight. Nominal pipe sizes are shown.
3. Tension bars, bar bands, boulevard and end rail clamps shall be steel or aluminum alloy conforming to AASHTO M 181 (ASTM F 626). Steel components shall be hot-dip galvanized in accordance with AASHTO M 111 (ASTM A 123) or AASHTO M 232 (ASTM A 153) as applicable.
4. All bolts and nuts shall be steel conforming to ASTM A 307 and ASTM A 563, Grade A respectively. Washers shall be hardened steel commercial Type "A" Plain and meet the dimensional requirements of ANSI B18.22. All bolts, nuts, and washers shall be hot-dip galvanized in accordance with AASHTO M 111 (ASTM A 123) or AASHTO M 232 (ASTM A 153) as applicable.
5. Wire ties shall be standard round 9 gauge zinc or aluminum coated steel or 6 gauge aluminum alloy conforming to ASTM F 626. All ties shall be wrapped around chain-link fabric twice (double pigtailed) at both ends. Space ties at 6" o.c. to bottom rail and at 12" o.c. at all posts and other rails.
6. Chain link fence shall conform to Standard Specification Section 710.03. Chain link fabric wire shall be 9 gauge steel and PVC coated black. Chain link fabric shall be knuckled top and bottom. The size of the wire mesh (fabric) shall be 1 1/2 inches.
7. Rail splices shall be provided at bridge rail splices as shown on the plans.
8. Rail may be field cut (sawn) to fit post spacing. Galvanized rail, cut or drilled as allowed, shall be touched up in accordance with 563.2.2.3.
9. See Standard Details Section 507, Steel Bridge Railing, for additional information.



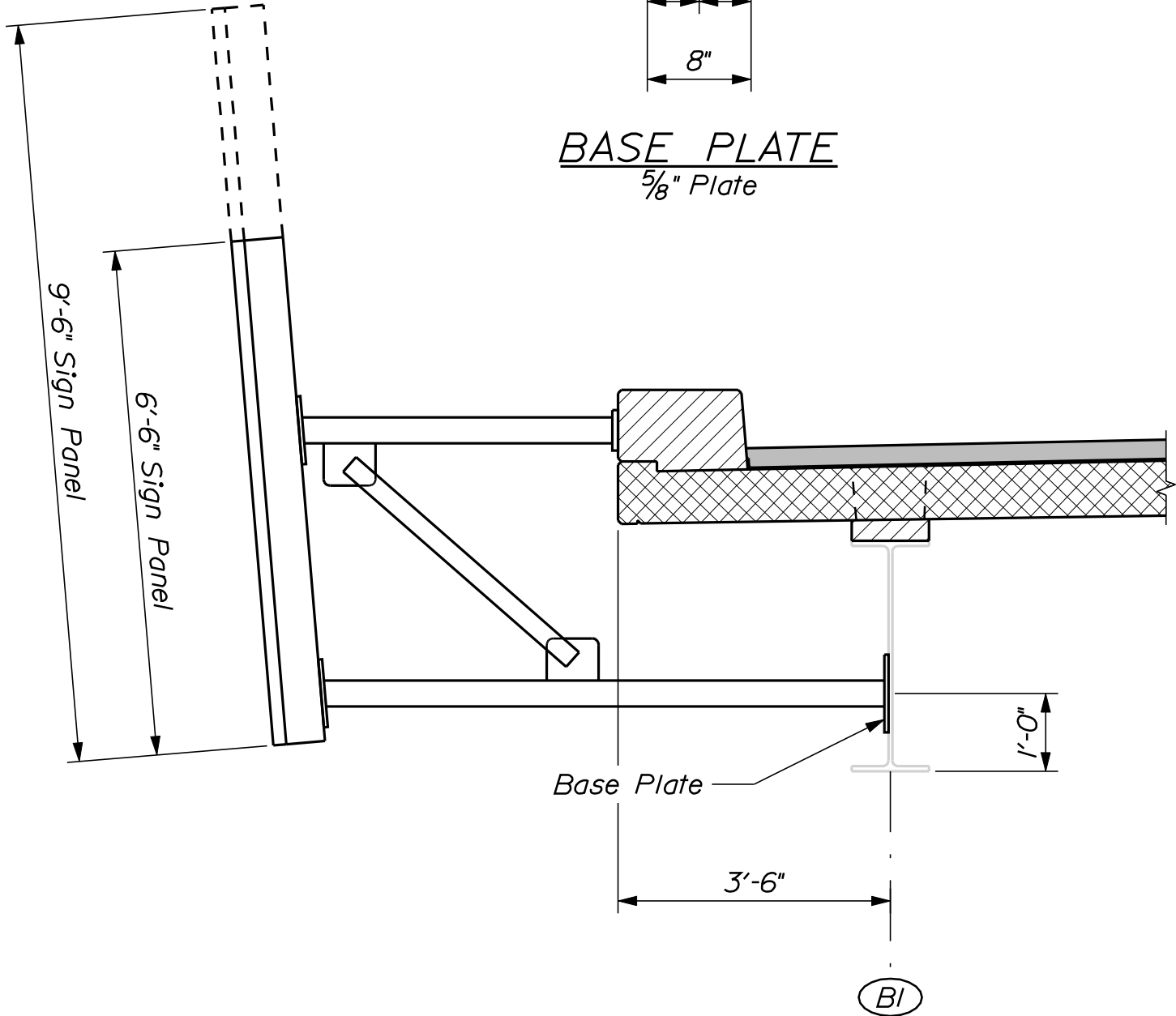
SIGN PANEL LAYOUT



SIGN PANEL LOCATION PLAN  
Dimensions are horizontal



BASE PLATE  
3/8" Plate



SIGN PANEL SECTION

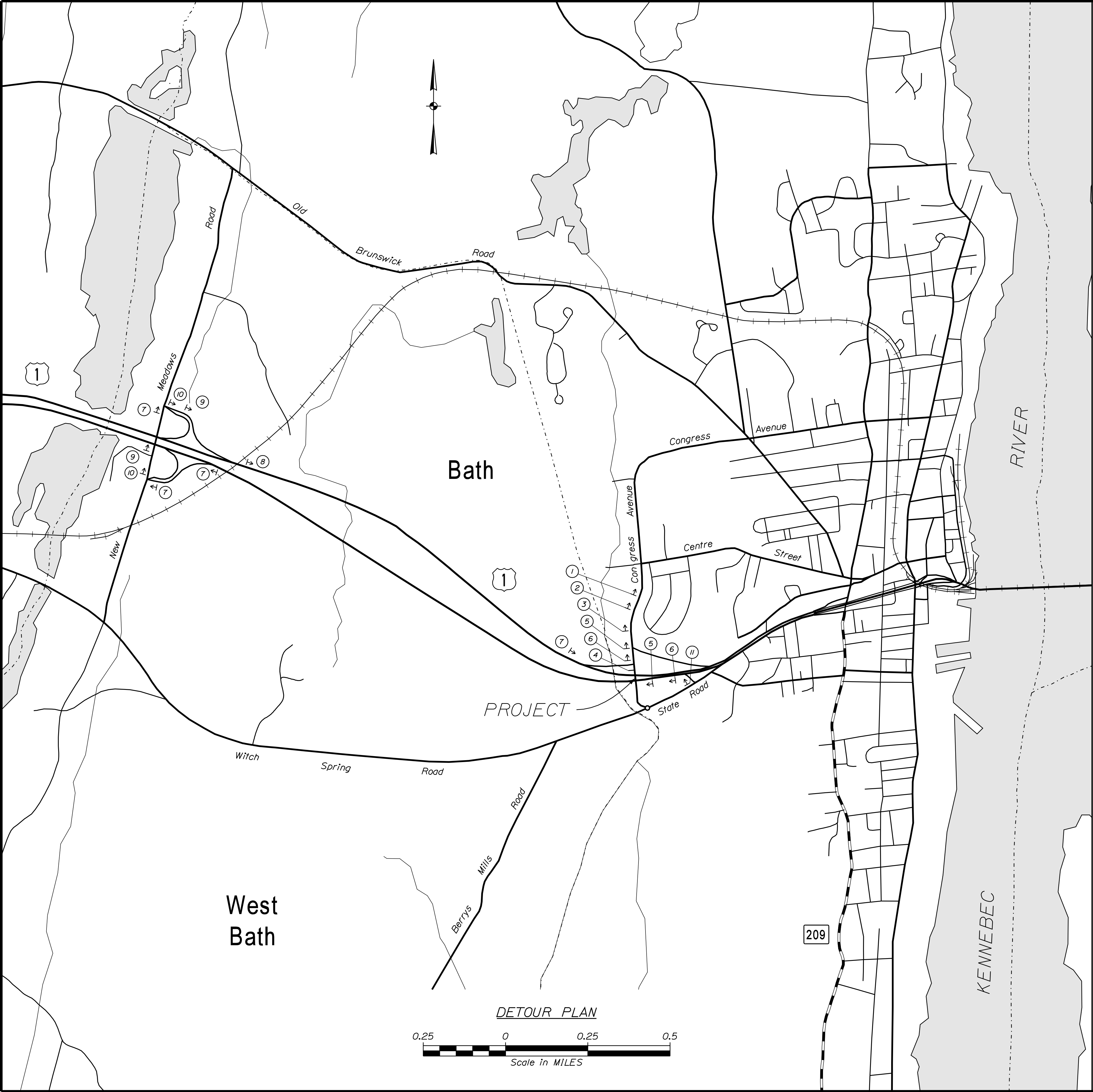
SIGN PANEL NOTES

1. Refer to Standard Details Section 645 for details not shown.
2. The Base Plate and the chord locations are dimensioned to accommodate the reuse of existing holes in the beam web. If the existing holes are not reused, they shall be closed with a galvanized bolt of sufficient size to completely fill the hole.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
CENTRE STREET CONNECTION		STP-1872(500)	
BATH		WIN	
U.S. ROUTE 1		BRIDGE NO. 6142	
SAGADAHOC COUNTY		18725.00 & 18725.10	
SIGN PANELS		BRIDGE PLANS	
SHEET NUMBER		47	
		OF 53	

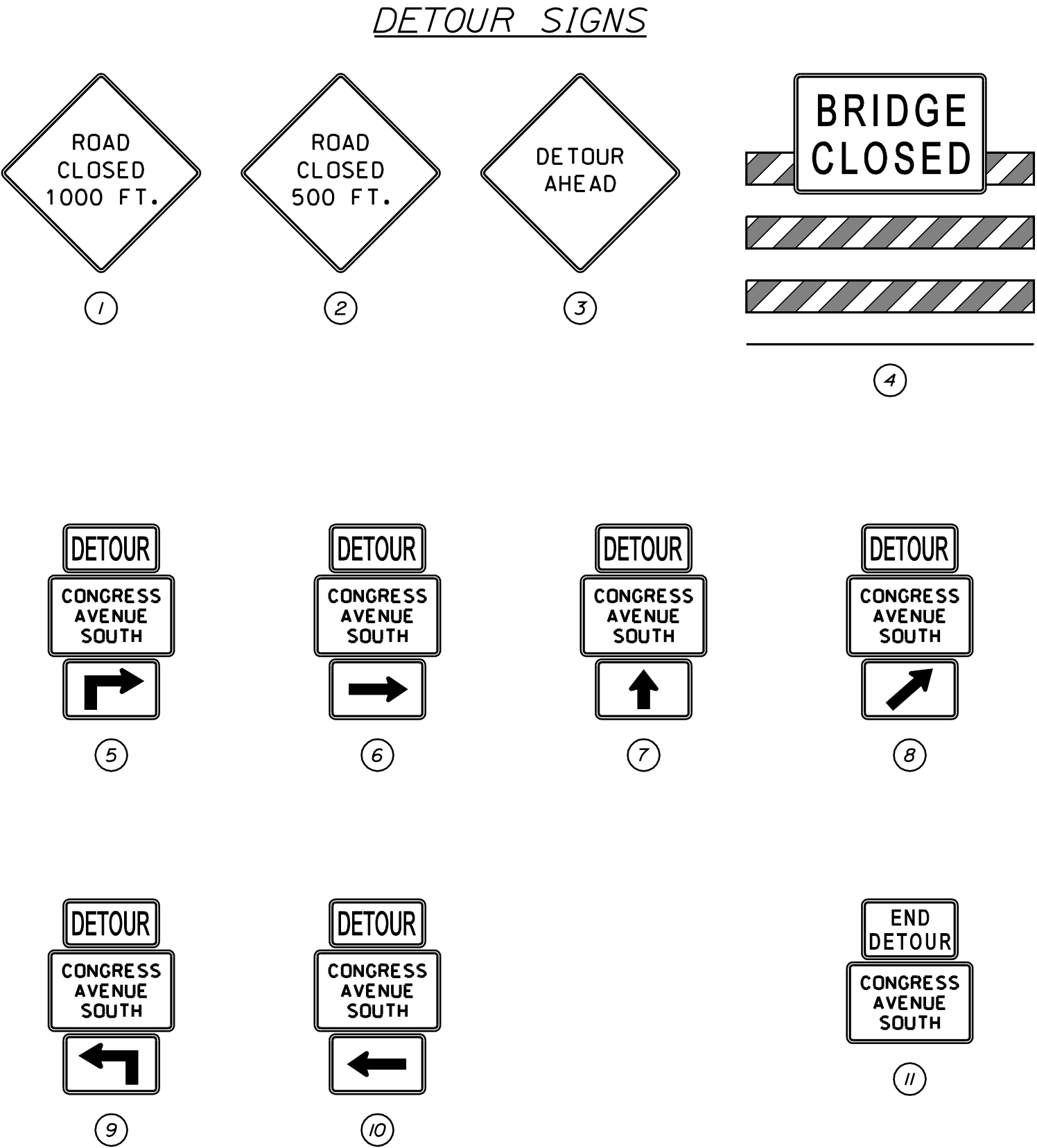






DETOUR NOTES

1. All modifications to traffic control devices shall be in accordance with the Manual on Uniform Traffic Control Devices.
2. Any and all changes and adjustments to traffic control devices shall be included in the Traffic Control Plan submitted, designed and stamped by a Professional Engineer licensed in the State of Maine, and shall be approved by the Resident prior to implementation.
3. Cover all conflicting route signs.



<div> <div>CENTRE STREET CONNECTION</div> <div>U.S. ROUTE 1</div> <div>BATH</div> </div>	<div>STATE OF MAINE</div> <div>DEPARTMENT OF TRANSPORTATION</div>		<div>STP-1872(500)</div>		<div>WIN</div> <div>BRIDGE NO. 6142</div> <div>18725.00 &amp; 18725.10</div> <div>BRIDGE PLANS</div>	
	<div>DESIGN-DETAILED</div> <div>CHECKED-REVIEWED</div> <div>DESIGNS DETAILED</div> <div>REVISIONS 1</div> <div>REVISIONS 2</div> <div>REVISIONS 3</div> <div>REVISIONS 4</div> <div>FIELD CHANGES</div>		<div>BY</div> <div>J. Kittredge</div> <div>D. Eaton</div> <div>WSP</div>		<div>DATE</div> <div>Oct 2017</div> <div>Nov 2017</div>	
	<div>SAGADAHOC COUNTY</div> <div>DETOUR PLAN</div>		<div>SIGNATURE</div> <div>P.E. NUMBER</div> <div>DATE</div>		<div>SHEET NUMBER</div> <div>50</div> <div>OF 53</div>	

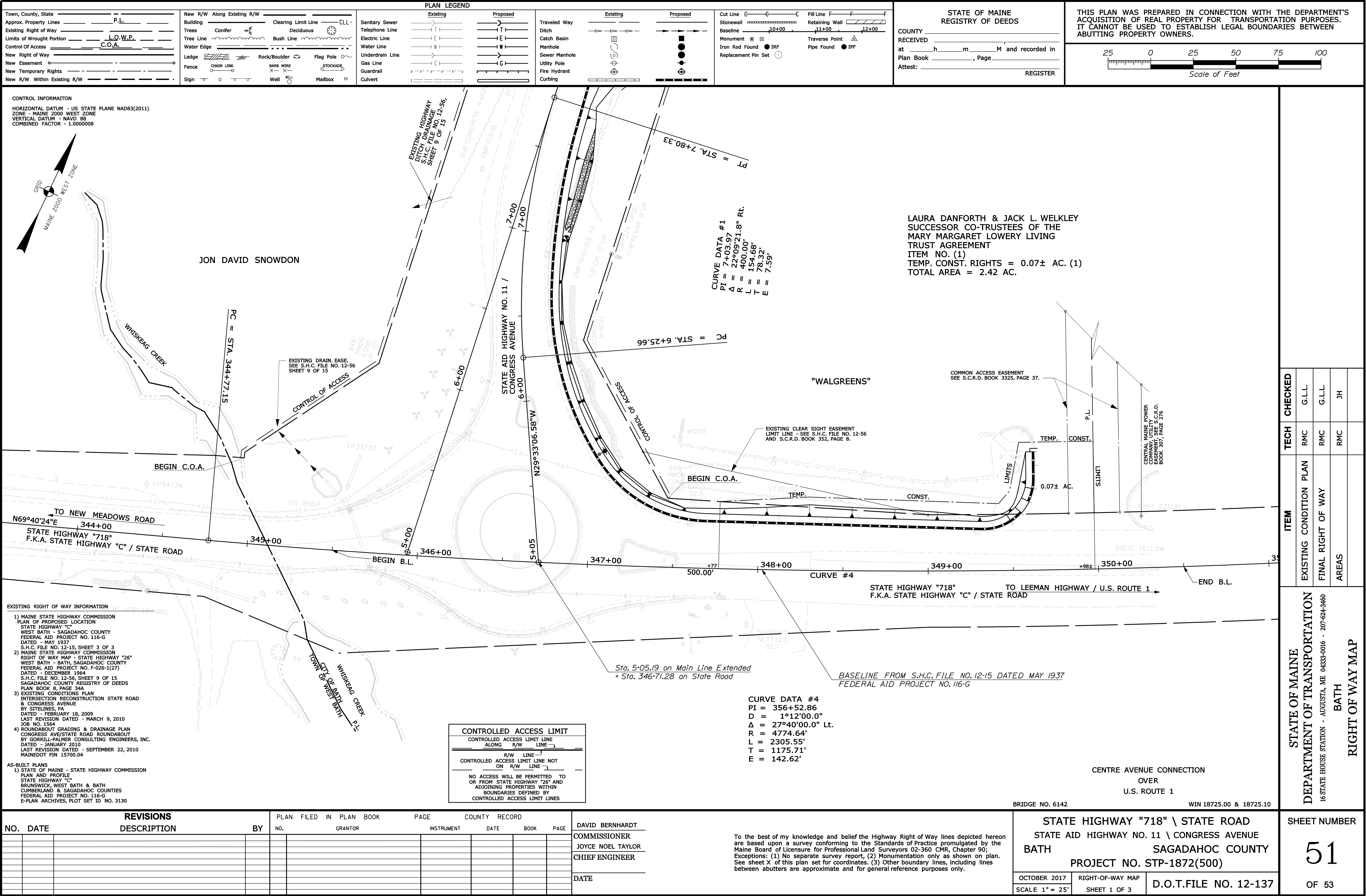


Date:11/28/2017

Username: Dana.Damren

Division: BRIDGE

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