

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Fifth Edition 2010.

DESIGN LOADING

Live Load HL - 93 Modified

TRAFFIC DATA

Current (2010) AADT	2490
Future (2030) AADT	3490
DHV - % of AADT	11%
Design Hour Volume	384
Heavy Trucks (% of AADT)	8%
Heavy Trucks (% of DHV)	8%
Directional Distribution (% of DHV)	60%
18 kip Equivalent P 2.0	152
18 kip Equivalent P 2.5	145
Design Speed (mph)	40 mph

MATERIALS

Concrete:	
Structural Wearing Surface	Class "LP"
Barriers, Curbs, Sidewalks & Transition Barriers	Class "LP"
Precast	Class "P"
All Other	Class "A"
Reinforcing Steel	ASTM A 615/A 615M, Grade 60
Prestressing Strands	AASHTO 203 (ASTM A 416), Grade 270, Low Relaxation
Structural Steel:	
All Material (except as noted)	ASTM A 709, Grade 50W (unpainted)
High Strength Bolts	ASTM A 325, Type 3

BASIC DESIGN STRESSES

Concrete	f 'c = 4,350 psi
Precast Concrete	f 'c = 5,000 psi
	f 'ci = 4,000 psi
Reinforcing Steel	f y = 60,000 psi
Prestressing Strand	F μ = 270,000 psi
Structural Steel:	
ASTM A 709, Grade 50W	F y = 50,000 psi
ASTM A 709, Grade 36	F y = 36,000 psi
ASTM A 325	F μ = 120,000 psi

UTILITIES

Central Maine Power Company	Time Warner Cable
Fairpoint Communications	Maine Central Railroad

SCOPE OF WORK

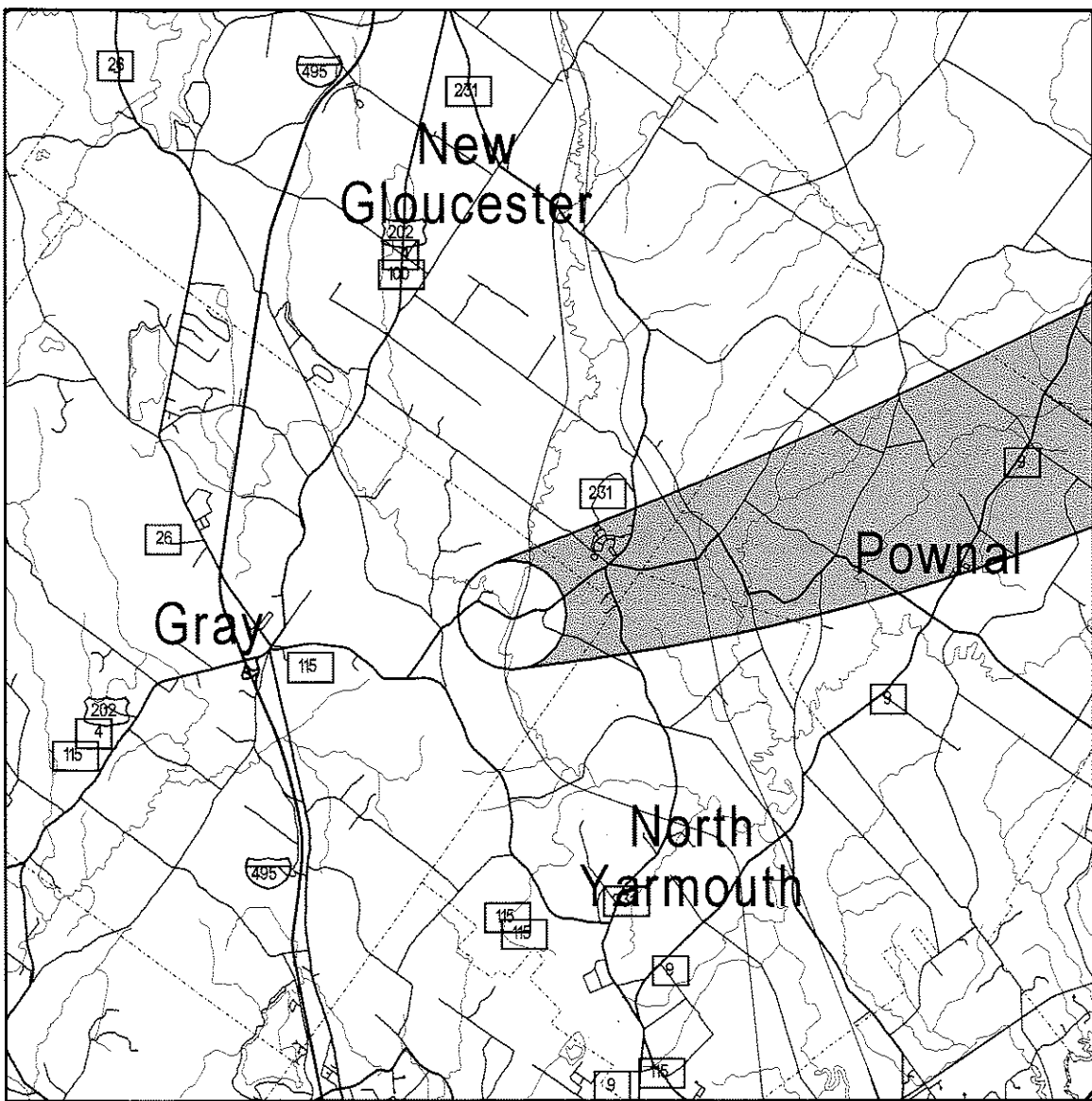
Remove the existing bridge deck and components and replace with a new concrete deck, wearing surface, curbs, rail and transition barriers. Some repair to existing diaphragms and rehabilitation of existing bearings. Replace existing guard rail and approximately 325 feet of approach work. Reconstruction of railroad crossing and signal improvements.

GRAY
CUMBERLAND COUNTY
SWEETSER BRIDGE
OVER
ROYAL RIVER
DEPOT ROAD
FEDERAL AID PROJECT NO. BH-1791(300)X
PROJECT LENGTH 0.066 mi.
BRIDGE DECK REPLACEMENT
BRIDGE NO. 5781

MAINE CENTRAL RAILROAD
PROJECT NO. 18107.00
RAILROAD CROSSING RECONSTRUCTION
PROJECT NO. 18107.10
SIGNAL IMPROVEMENTS

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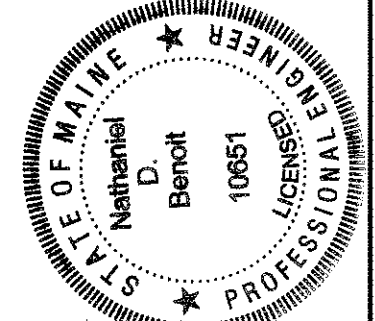


LOCATION MAP



PIN 17913.00, 18107.00 & 18107.10

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		5/12/11
CHIEF ENGINEER: <i>[Signature]</i>		5/12/2011

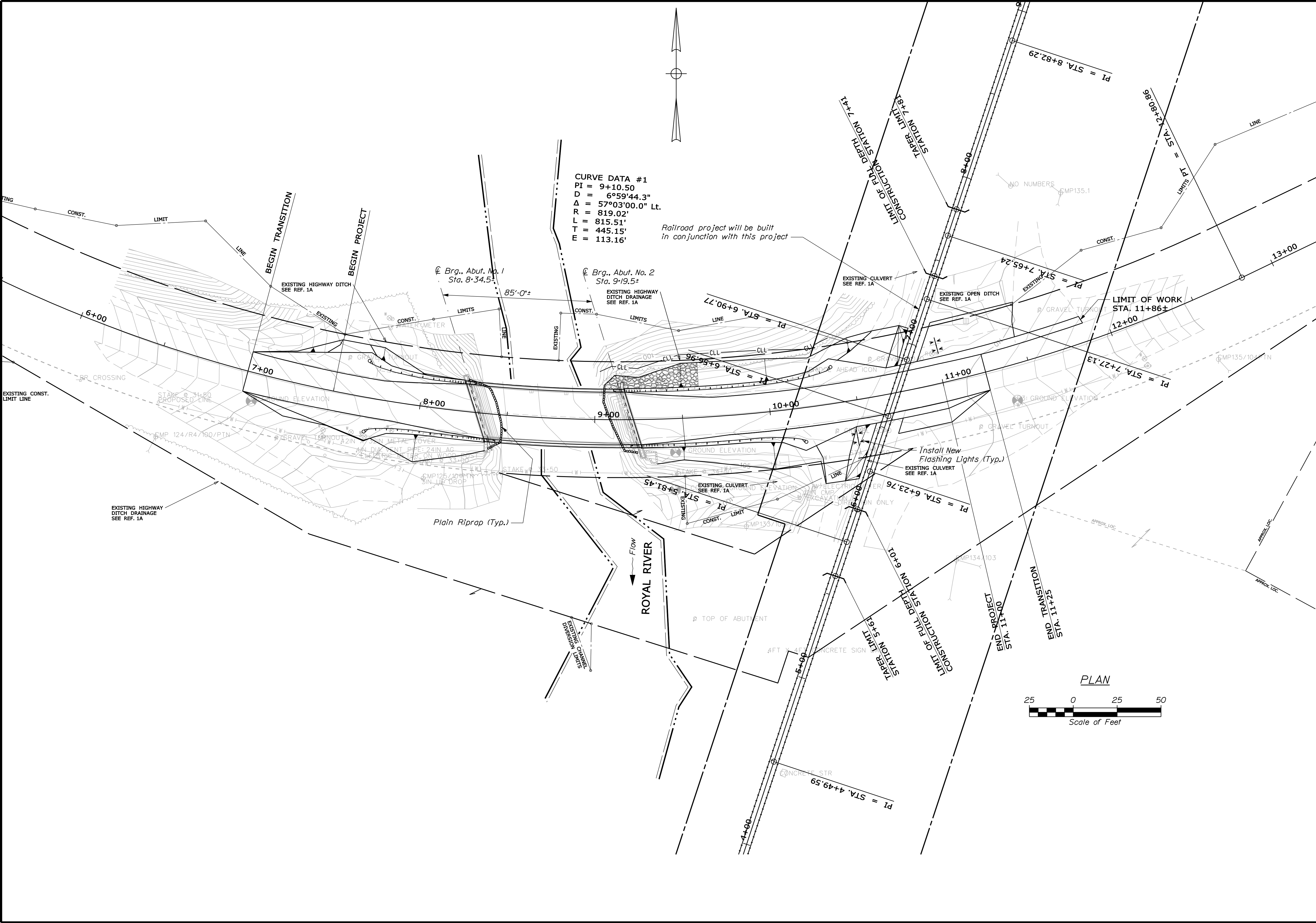


SIGNATURE <i>[Signature]</i>	DATE
P.E. NUMBER 10651	5/9/11

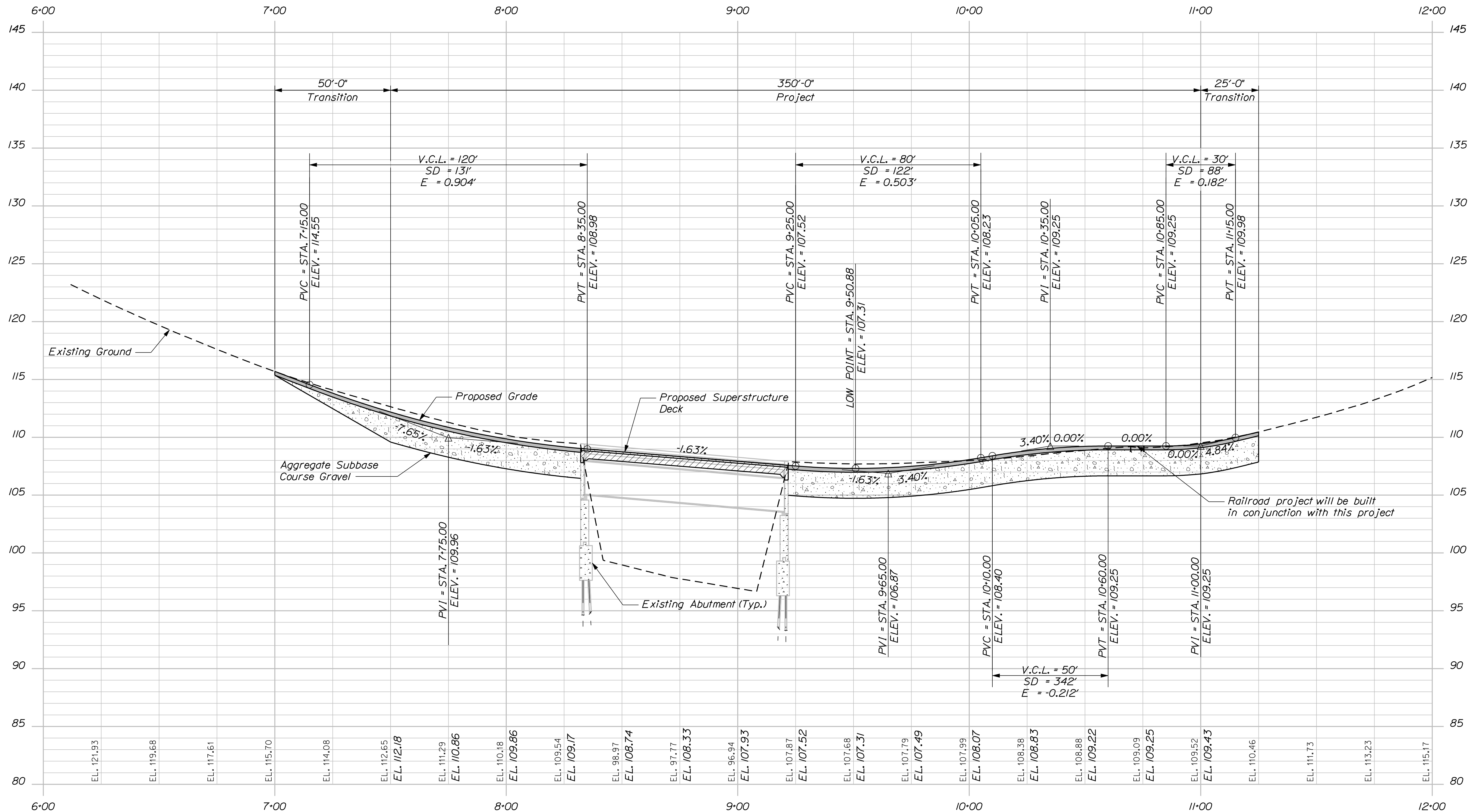
PROJECT INFORMATION	BRIDGE PROGRAM
PROJECT MANAGER	R. J. NIMON
DESIGNER	TEAM SOUTH
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

GRAY SWEETSER BRIDGE	TITLE SHEET
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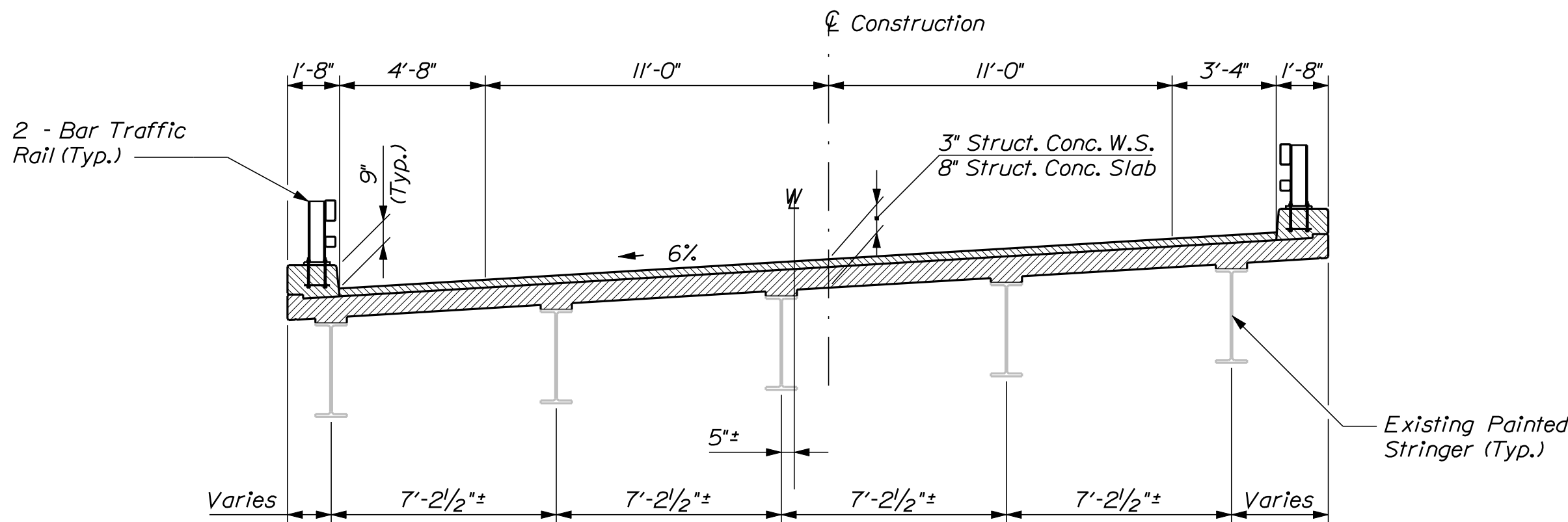
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OF 23



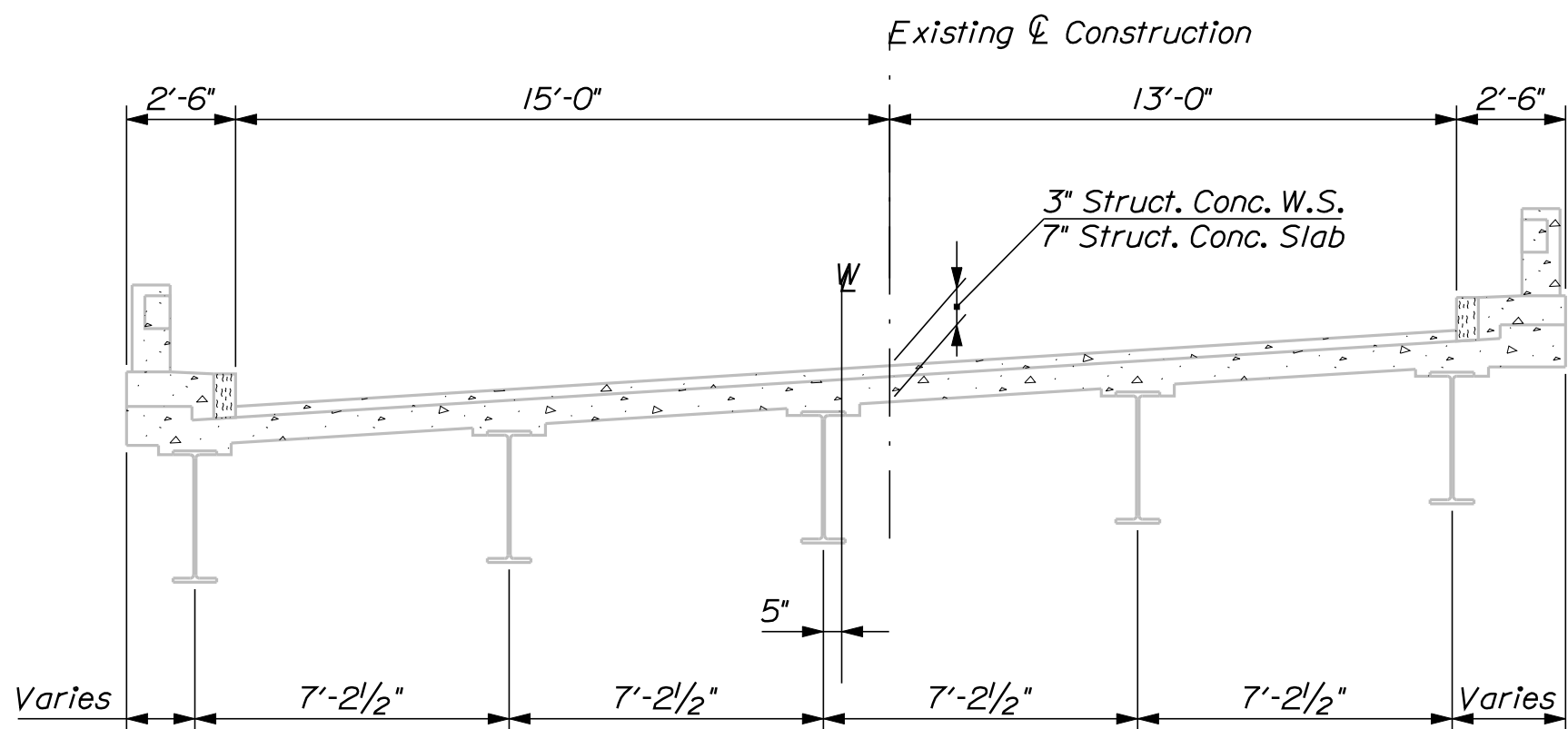
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GENERAL PLAN		CUMBERLAND COUNTY		GRAY		CHECKED-REVISED		TEAM SOUTH		TEAM SOUTH		TEAM SOUTH		TEAM SOUTH		TEAM SOUTH		SIGNATURE	
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BRIDGE PLANS		BRIDGE NO. 5781		PIN		17913.00		P.E. NUMBER		DATE		BH-1791(300)X		P.E. NUMBER		DATE		BH-1791(300)X	



PROFILE



TRANSVERSE SECTION



EXISTING TRANSVERSE SECTION

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BH-1791(300)X		PIN 17913.00	
BRIDGE NO. 5781		BRIDGE PLANS	
PROJECT MANAGER		SIGNATURE	
CHECKED-REVIEWED		P.E. NUMBER	
DESIGN-DETAILED		DATE	
DESIGN-DETAILED		DATE	
REVISIONS 1		DATE	
REVISIONS 2		DATE	
REVISIONS 3		DATE	
REVISIONS 4		DATE	
FIELD CHANGES		DATE	
SWEETSER BRIDGE		SHEET NUMBER	
ROYAL RIVER		4	
CUMBERLAND COUNTY		OF 23	
GRAY		PROFILE	

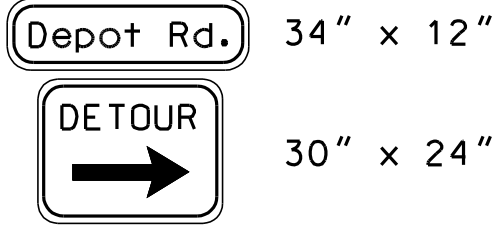
Date:5/12/2011

Username: richard.nimon

Division: BRIDGE

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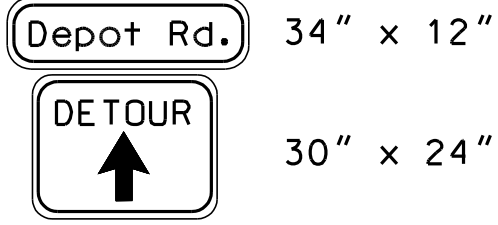
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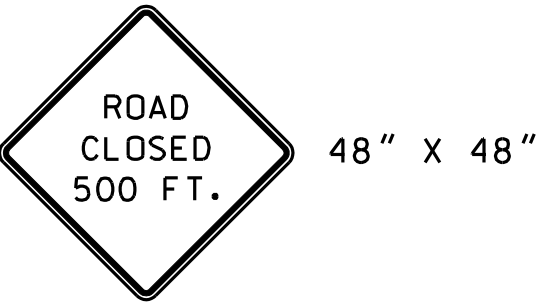
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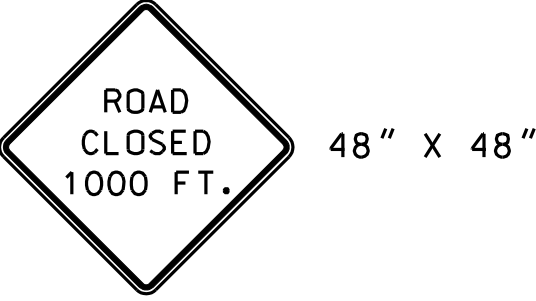
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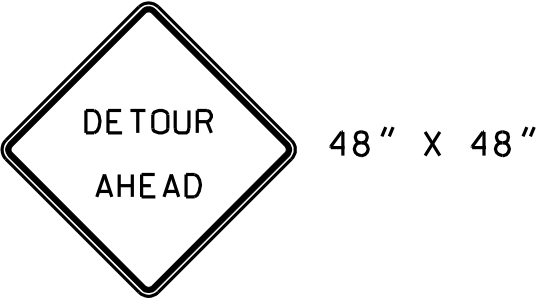
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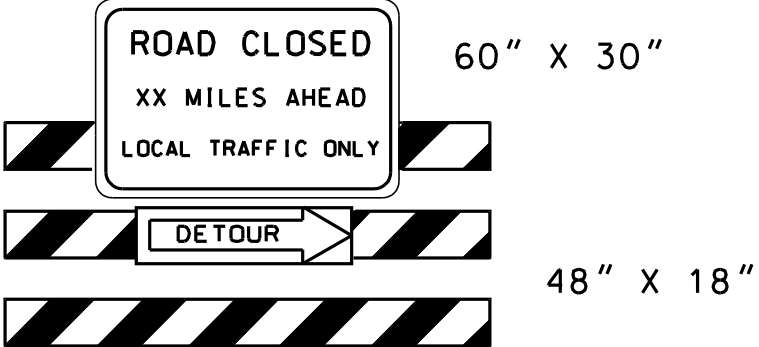
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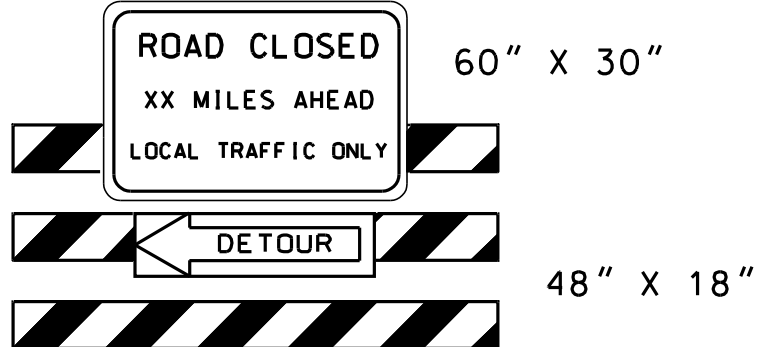
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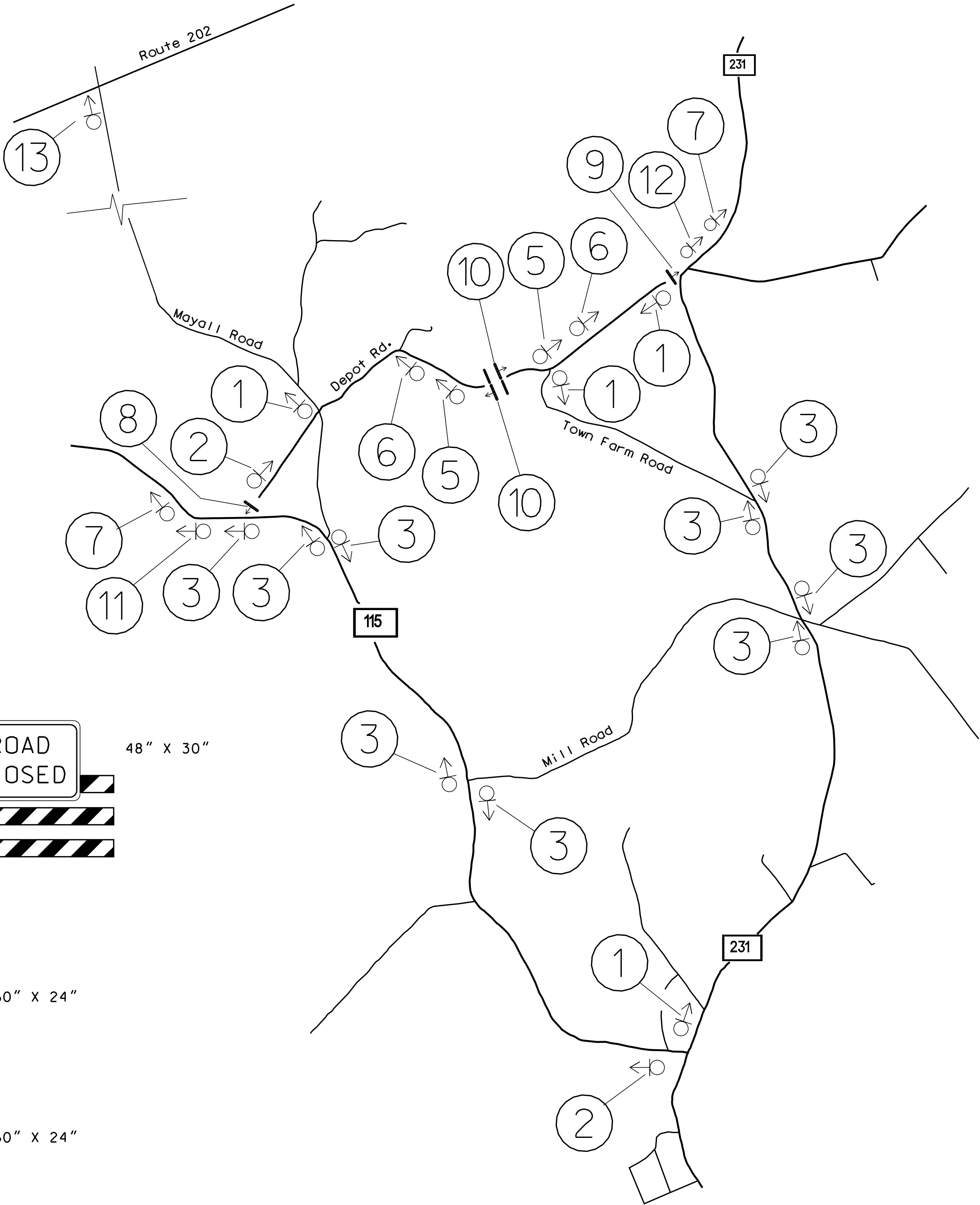
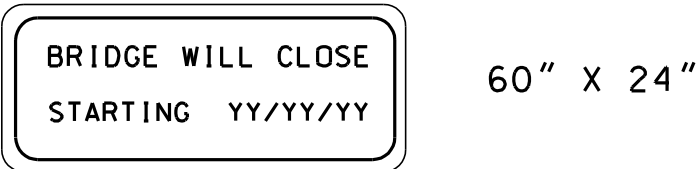
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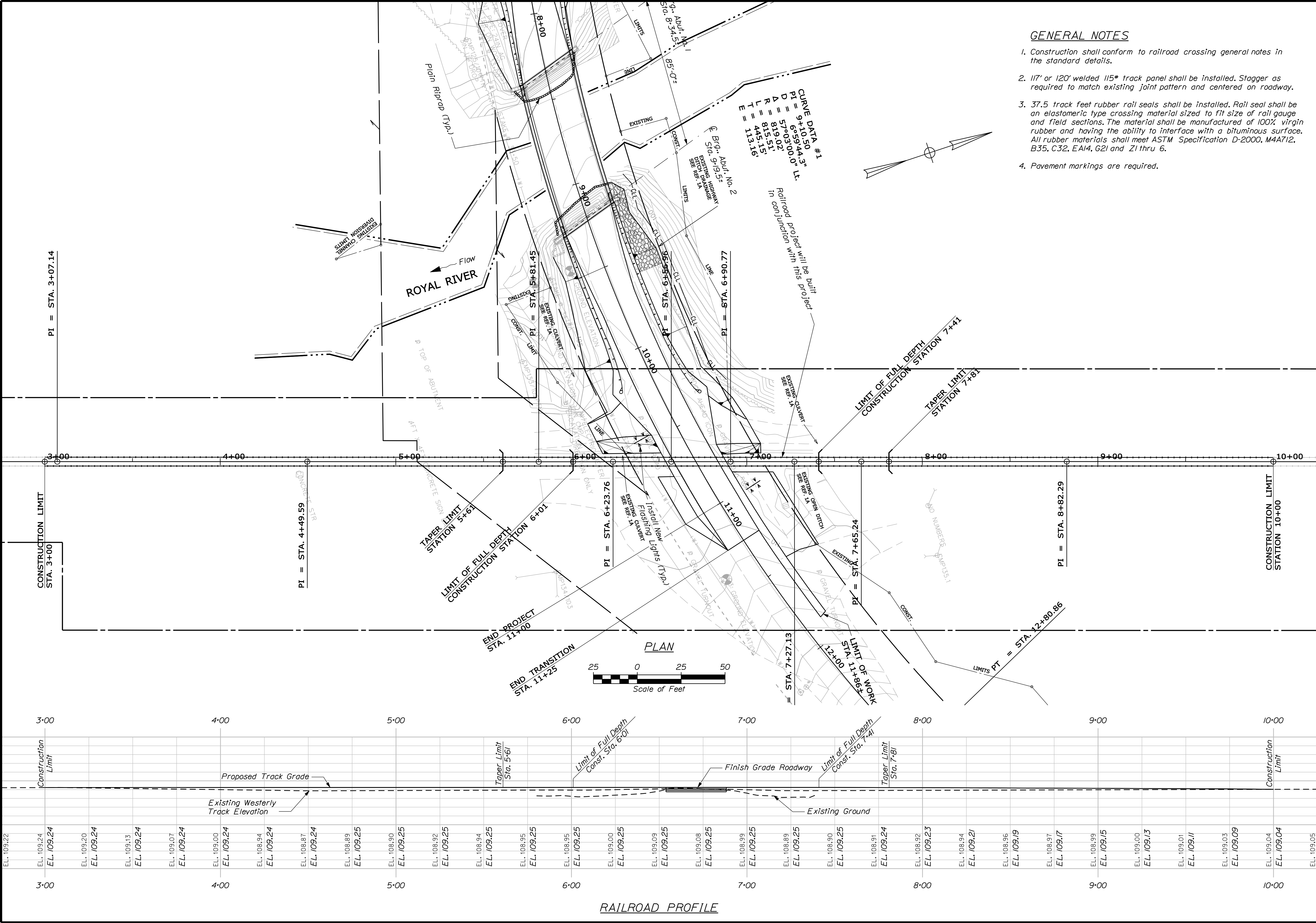


General Notes

1) Contractor shall post sign 14 at the bridge in each direction of travel two weeks prior to the bridge closing.

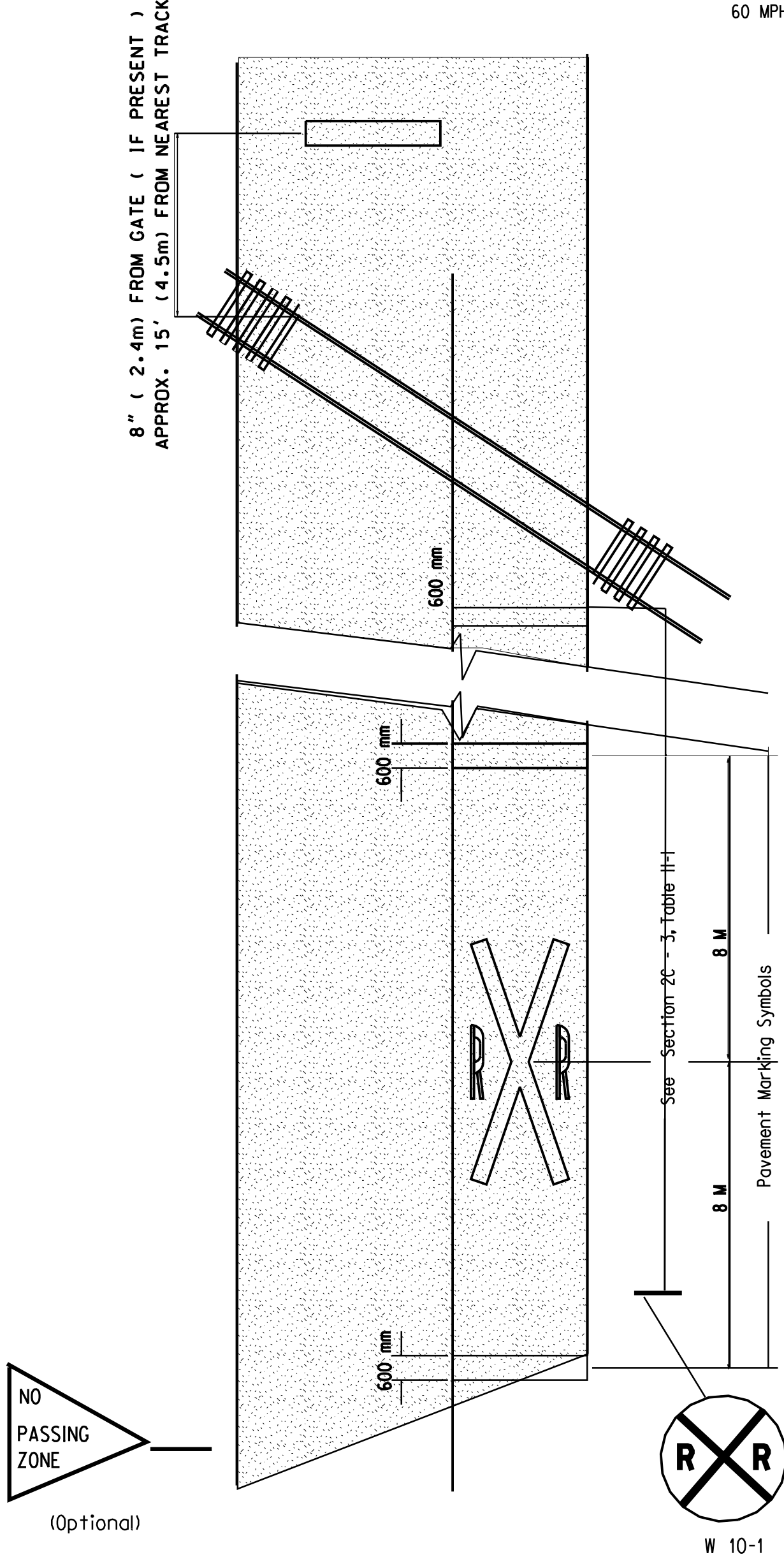
NOT TO SCALE

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BH-1791(300)X		PIN 17913.00		BRIDGE NO. 5781		BRIDGE PLANS	
SWEETSER BRIDGE		ROYAL RIVER		CUMBERLAND COUNTY		GRAY		DETOUR PLAN		SHEET NUMBER	
PROJ. MANAGER		DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2	
R.J. NIMON		D. HANKS		05/2011		SIGNATURE		P.E. NUMBER		DATE	
BY		DATE		SIGNATURE		P.E. NUMBER		DATE		FIELD CHANGES	
5		OF 23		NOT TO SCALE		17913.00		BH-1791(300)X		STATE OF MAINE	



- GENERAL NOTES**
- Construction shall conform to railroad crossing general notes in the standard details.
 - 117' or 120' welded 115# track panel shall be installed. Stagger as required to match existing joint pattern and centered on roadway.
 - 37.5 track feet rubber rail seals shall be installed. Rail seal shall be an elastomeric type crossing material sized to fit size of rail gauge and field sections. The material shall be manufactured of 100% virgin rubber and having the ability to interface with a bituminous surface. All rubber materials shall meet ASTM Specification D-2000, M4A7I2, B35, C32, EA14, G2I and Z1 thru 6.
 - Pavement markings are required.

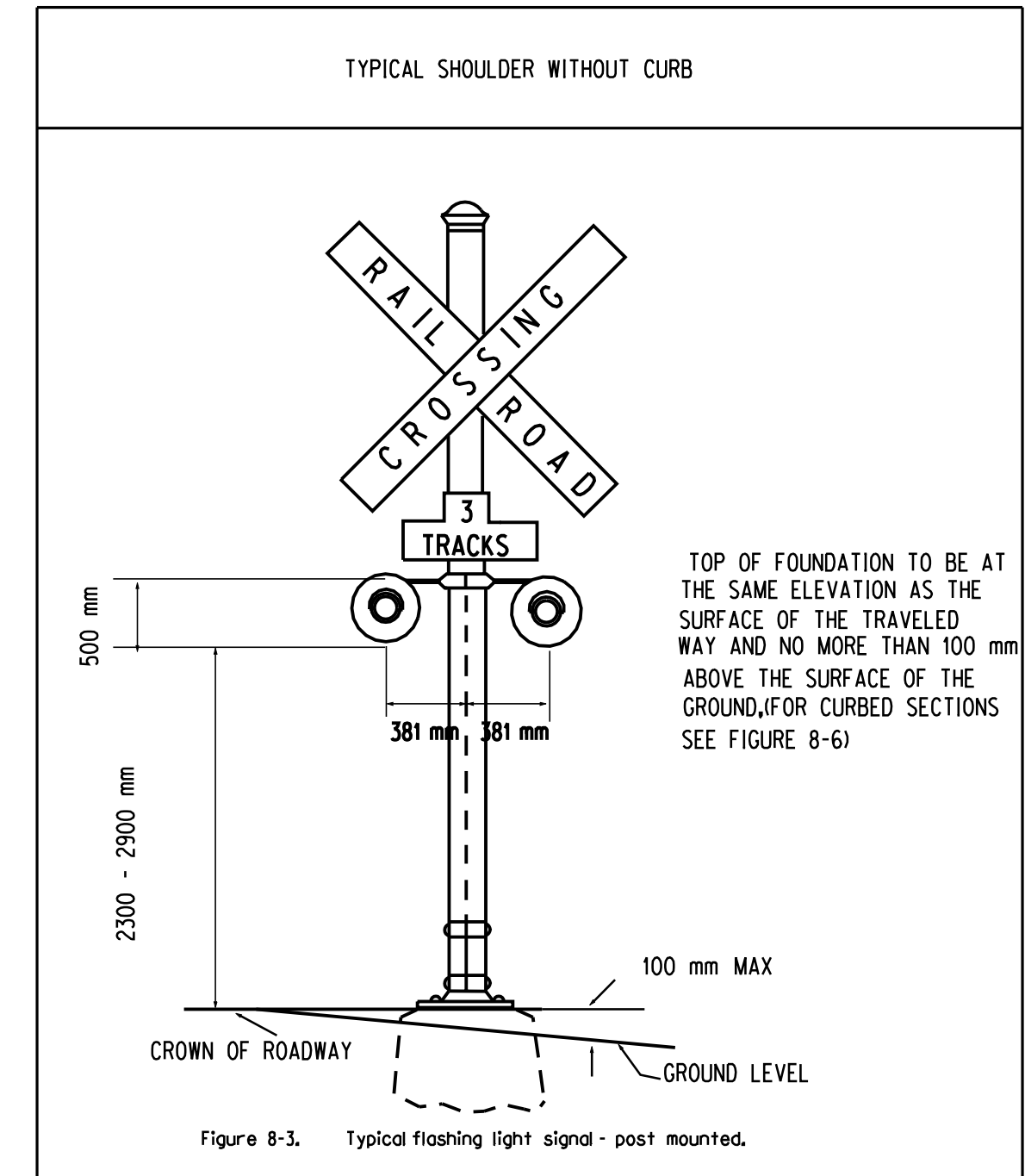
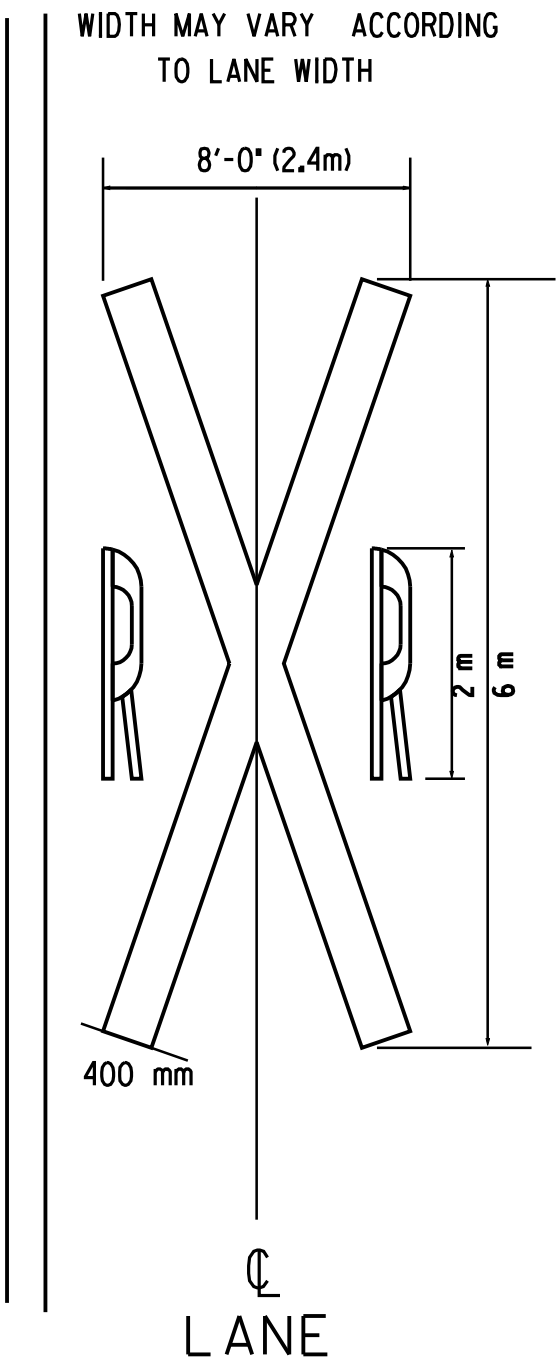
STATE OF MAINE DEPARTMENT OF TRANSPORTATION					SIGNATURE
				P.E. NUMBER	
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PAVEMENT MARKINGS AT RAILROAD
GRADE CROSSINGS

Suggested Minimum Pavement Marking Placement Distance

Use Highest Posted Speed	Minimum Distance FROM NEAREST TRACK
20 MPH (12kmh)	175' (53m)
25 MPH (15kmh)	250' (76m)
30 MPH (18kmh)	325' (99m)
35 MPH (21kmh)	400' (122m)
40 MPH (24kmh)	475' (145m)
45 MPH (27.5kmh)	550' (168m)
50 MPH (30.5kmh)	625' (191m)
55 MPH (33.5kmh)	700' (213m)
60 MPH (36.5kmh)	775' (236m)

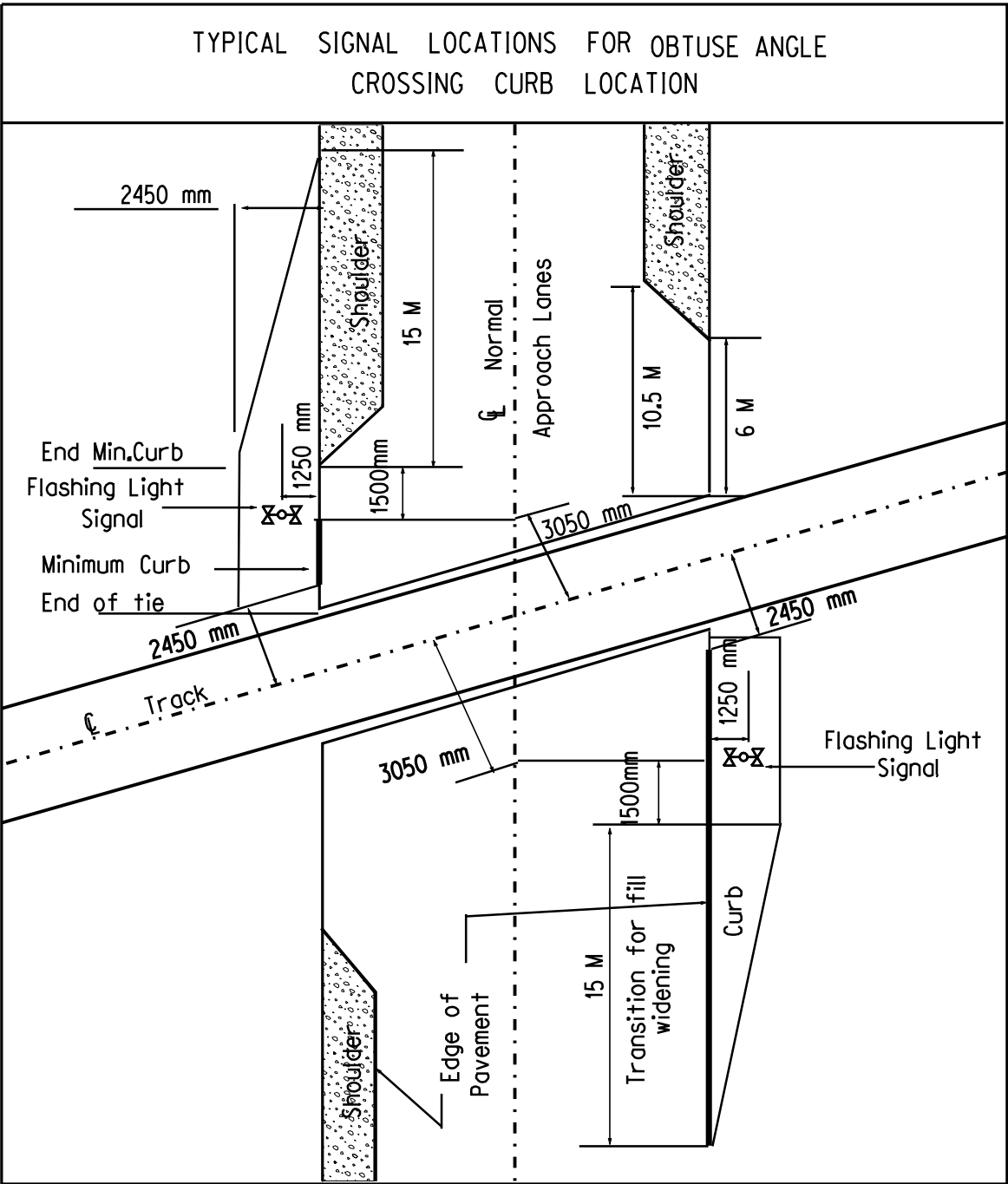
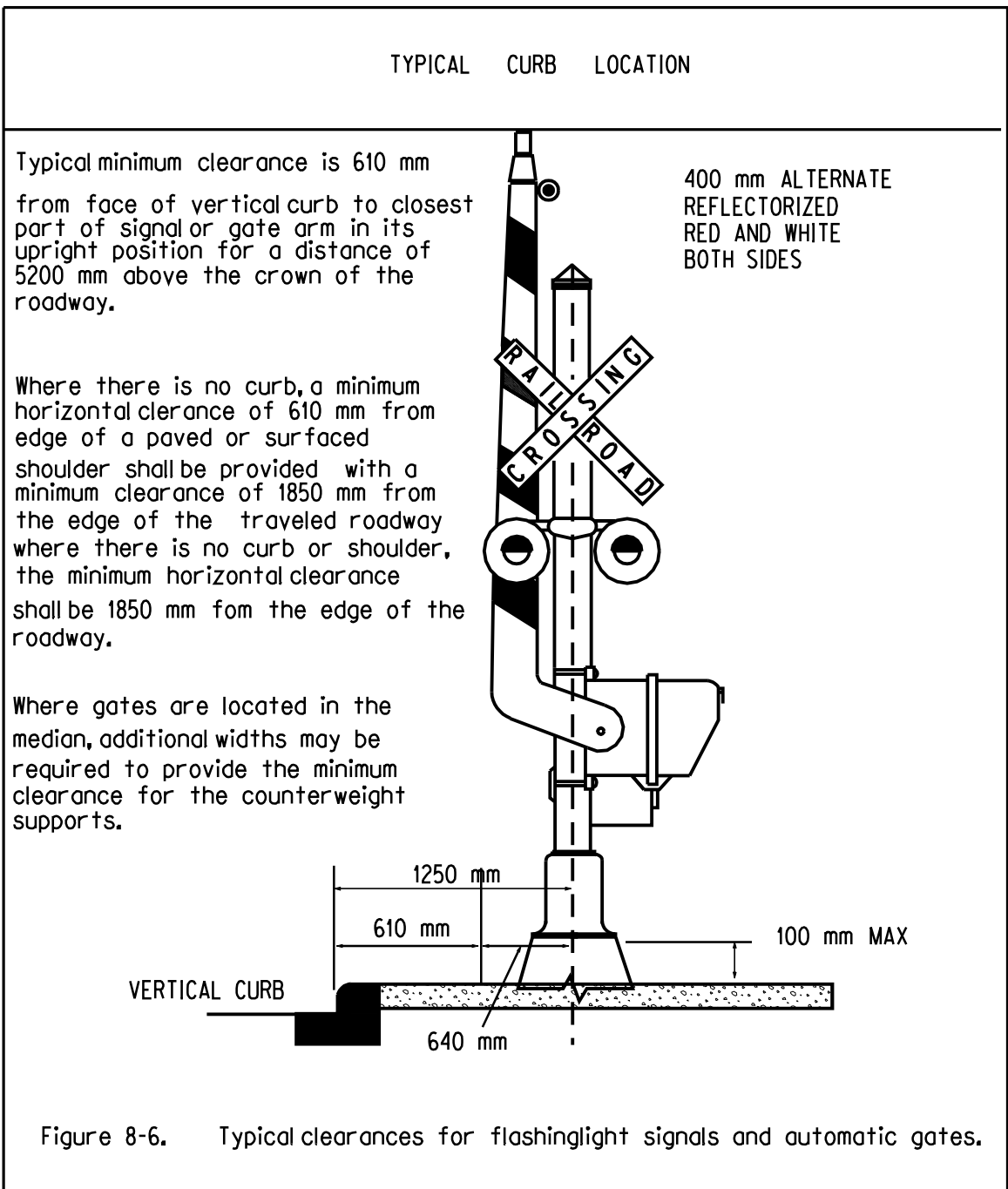
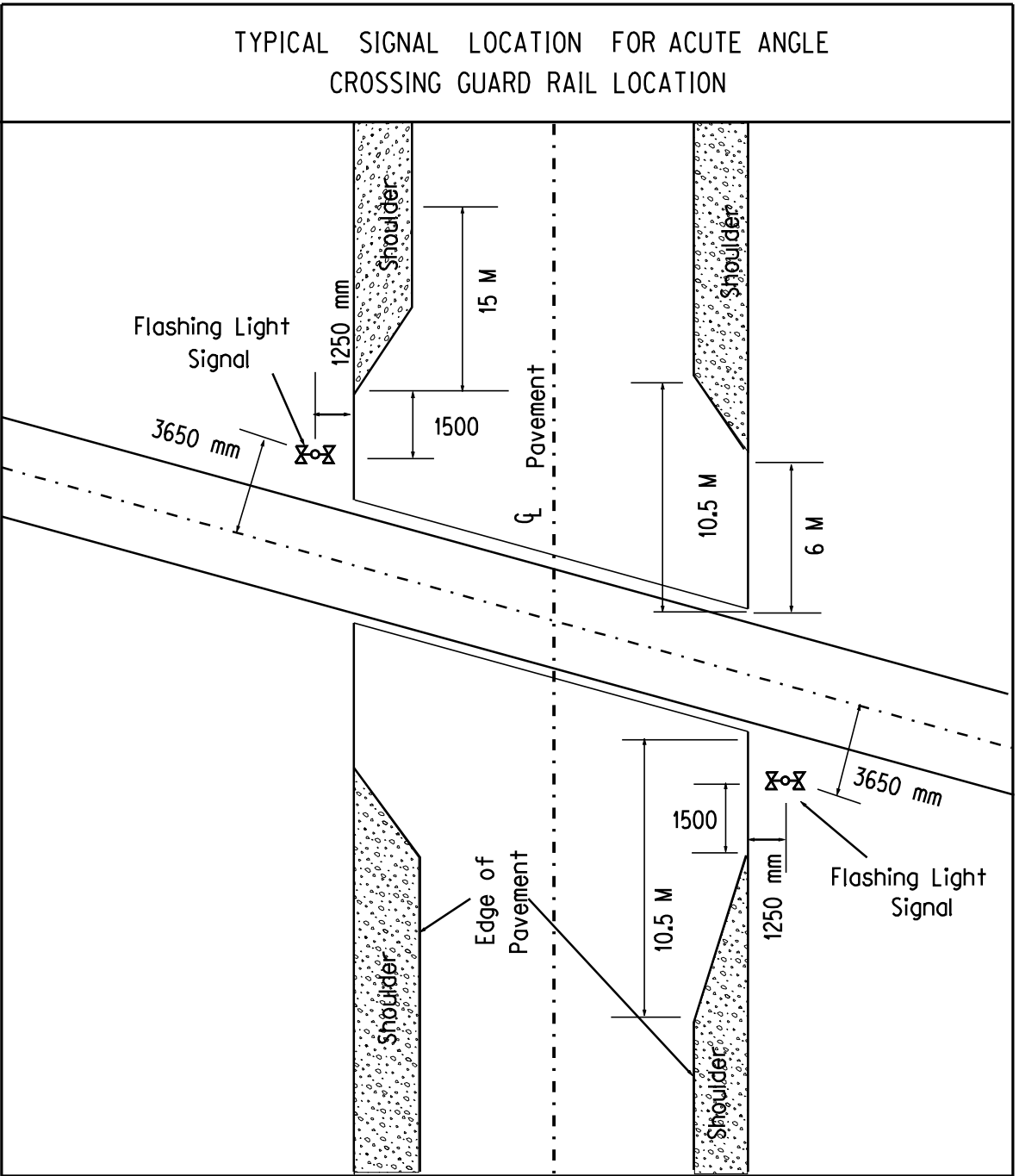
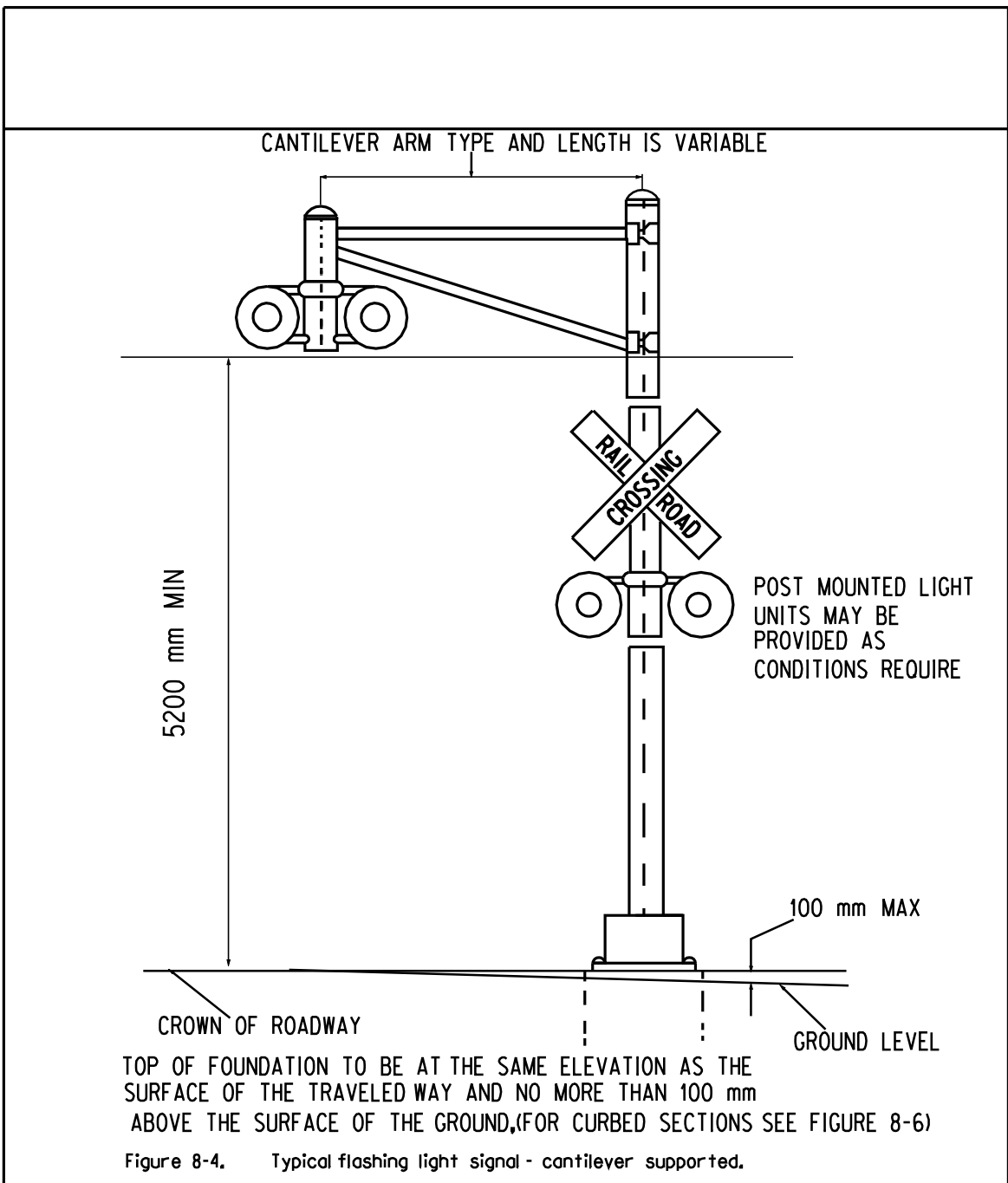
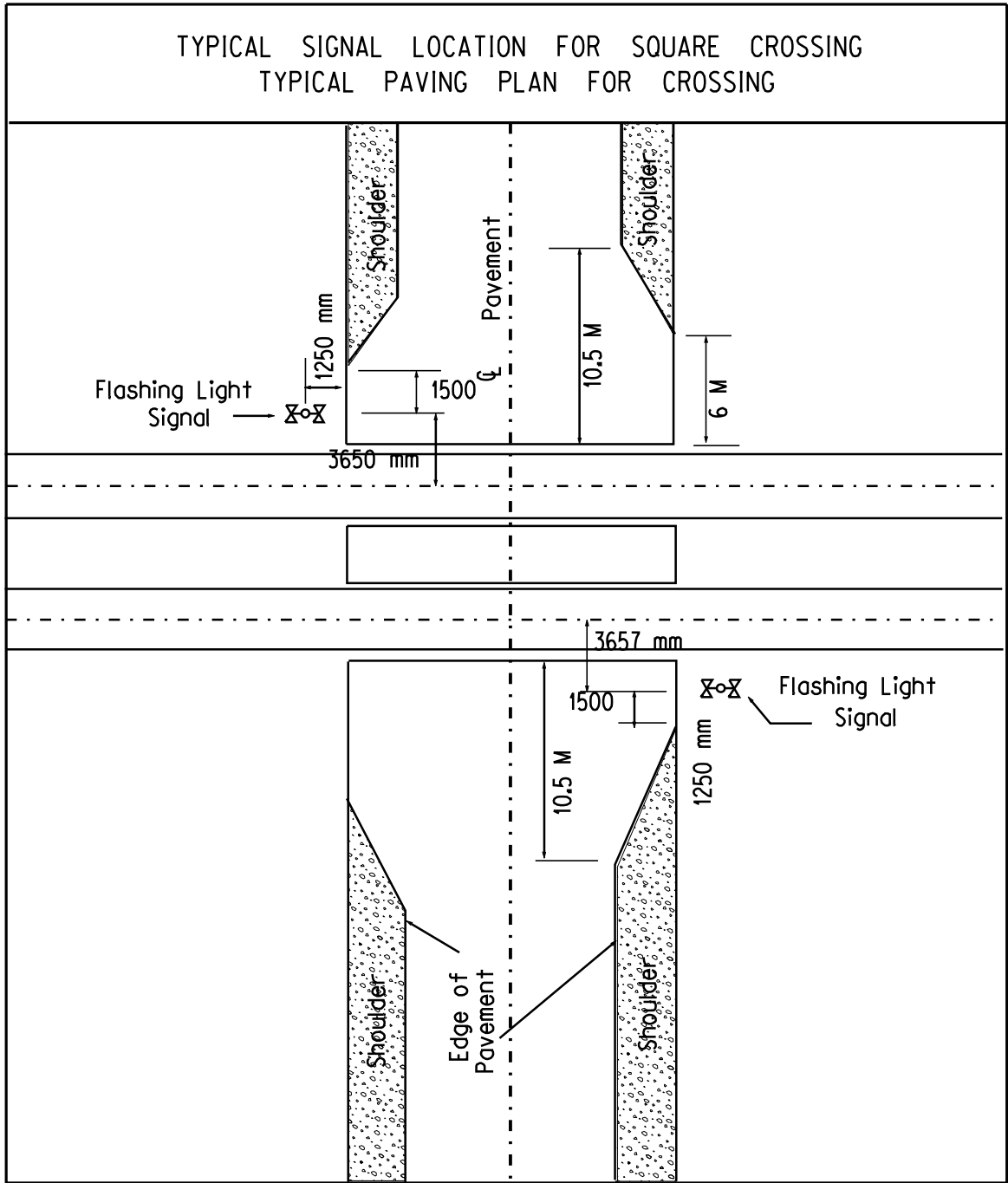


When used, a portion of the pavement marking symbol should be directly opposite the Advance Warning Sign (W 10-1). If needed, supplemental pavement marking symbol(s) may be placed between the Advance Warning Sign and the crossing, but should be at least 15 m from the Stop Line.

A three lane roadway should be marked with a centerline for two-lane approach operation on the approach to a crossing.

On multi-lane roads the transverse bands should extend across all approach lanes, and individual RXR symbols should be used in each approach lane.

Refer to Standard Alphabet for Highway and Markings for RXR symbols details.



SHEET NUMBER

7

OF 23

STANDARD DETAILS
SIGNAL LOCATIONS
PAVEMENT MARKINGS

PROJ. MANAGER	J. KITTREDE	BY	R. NIMON	DATE	05/2011
CHECKED-REVIEWED	B. JAMESON				
DESIGNS-DETAILED					
DESIGNS-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

SIGNATURE

P.E. NUMBER

DATE

STATE OF MAINE

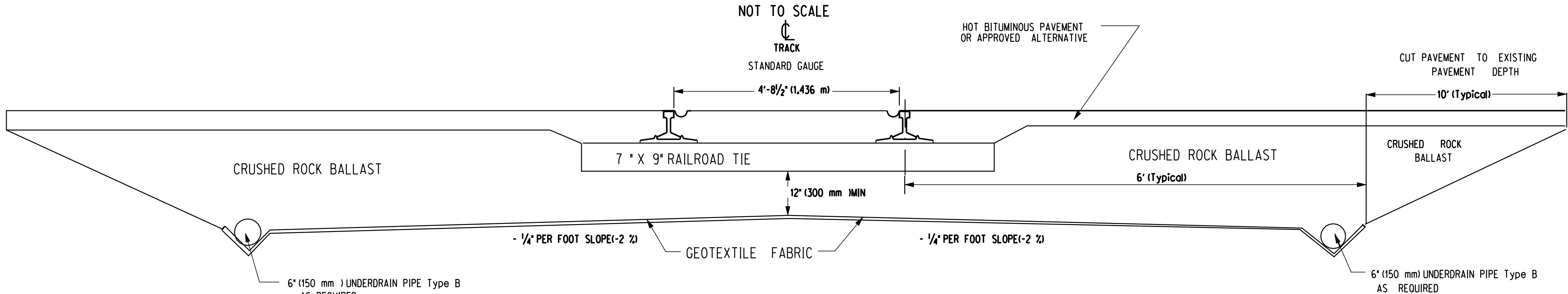
DEPARTMENT OF TRANSPORTATION

18107.00 & 18107.10

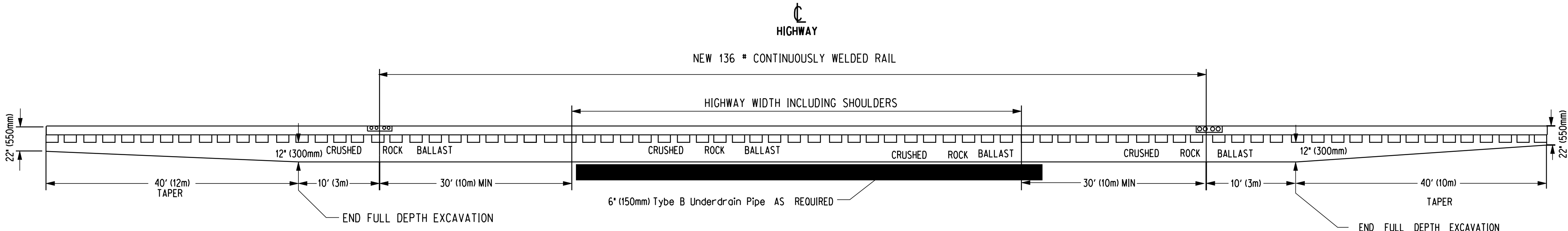
PIN

18107.00 & 18107.10

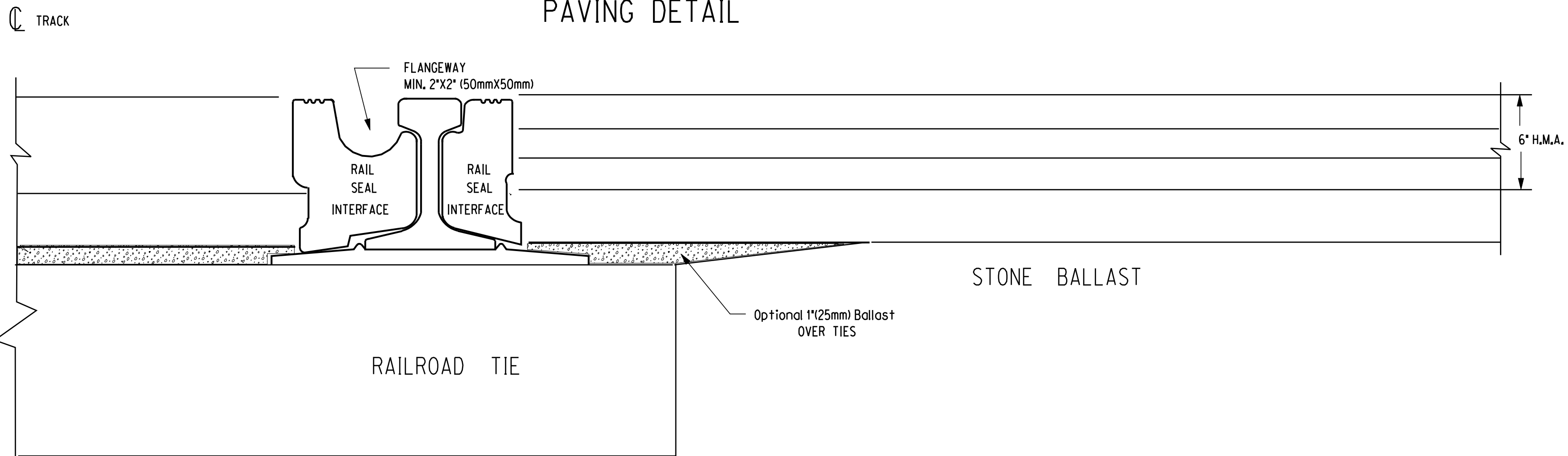
STANDARD RAILROAD GRADE CROSSING DETAIL



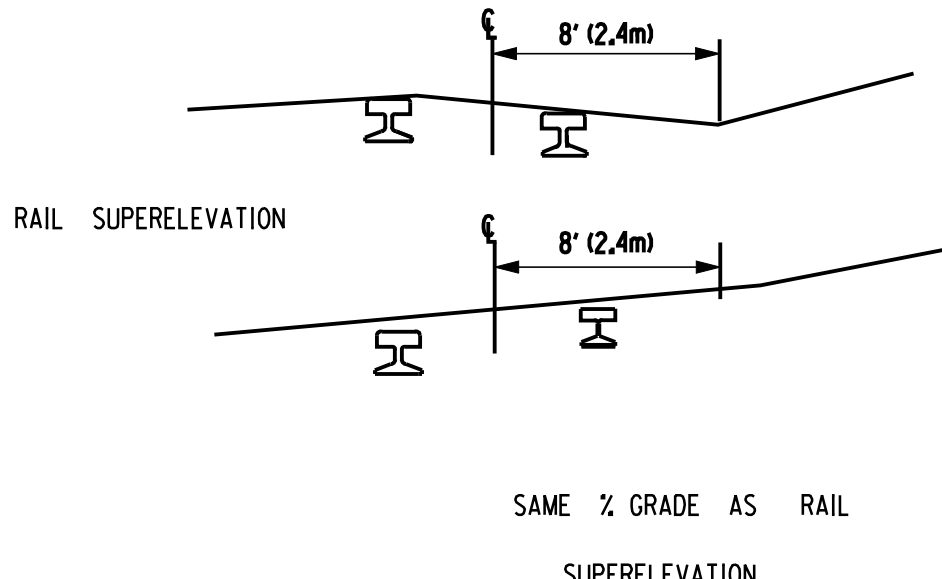
RAILROAD SECTION



HIGHWAY SECTION



RAIL ROAD CROSSING GRADING



NOTE : THE SLOPE OF THE 8' (2.4m) AREA SHOWN, IN NO CASE, SHALL BE ABOVE
THE PLANE OF THE RAILS EITHER SIDE OF C/L PER P.U.C. GENERAL ORDER #

RAILROAD CROSSING GENERAL NOTES

1. Signals shall be located as per standard detail and shall comply with the Manual of Uniform Traffic Control Devices.

2. Crossings shall be paved within 20 days following the completion of the crossing reconstruction.

3. Paved shoulders within the gage of the rail to point 24" outside of the field side of each rail shall be a standard 6" depth of pavement. Paved shoulders outside of this area shall be paved with 2" surface mix only.

4. New 136 * prime welded rail shall be provided for crossing reconstruction. The minimum length of welded rail shall be 117' or extend 30' beyond each edge of pavement whichever is longer. The full depth excavation area shall extend 10'(3m) beyond the welded rail and excavated to a minimum depth of 12" below bottom of tie elevation.

5. 7" x 9" ties (8'-6" or 9' long) shall be installed under the welded rail and shall be fully box anchored. Anchors may be omitted beneath the crossing surface in order to accommodate the installation of rubber rail seal.

6. Geotextiles provided for rail crossings shall be the following minimum weights: 8 oz./s.y. for non-woven fabrics and 6 oz./s.y. for woven fabrics. The minimum width through the crossing area shall be 17'. Geotextile fabrics shall be placed throughout the entire full depth construction area.

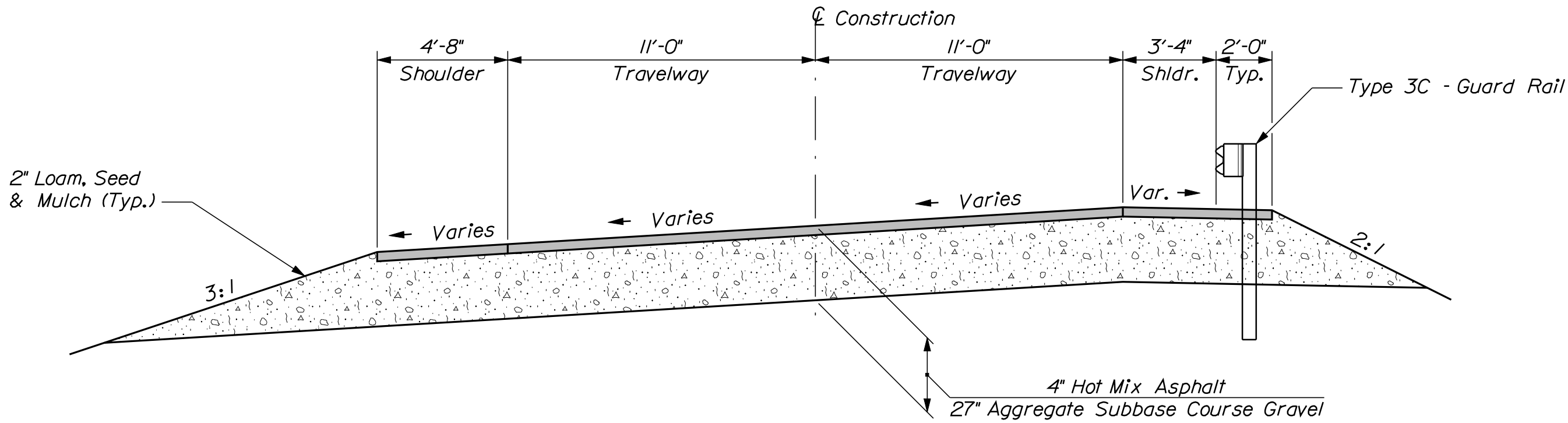
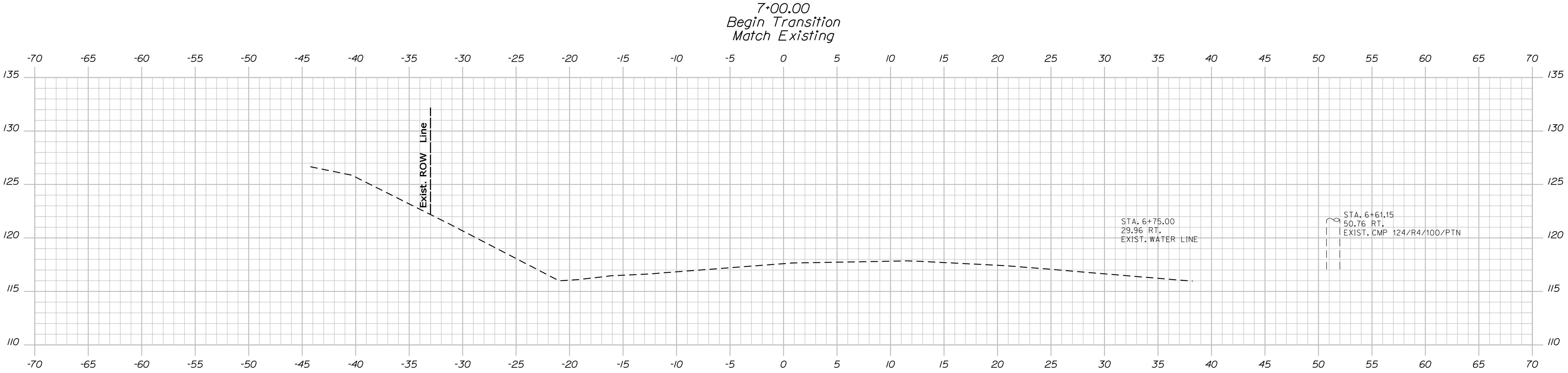
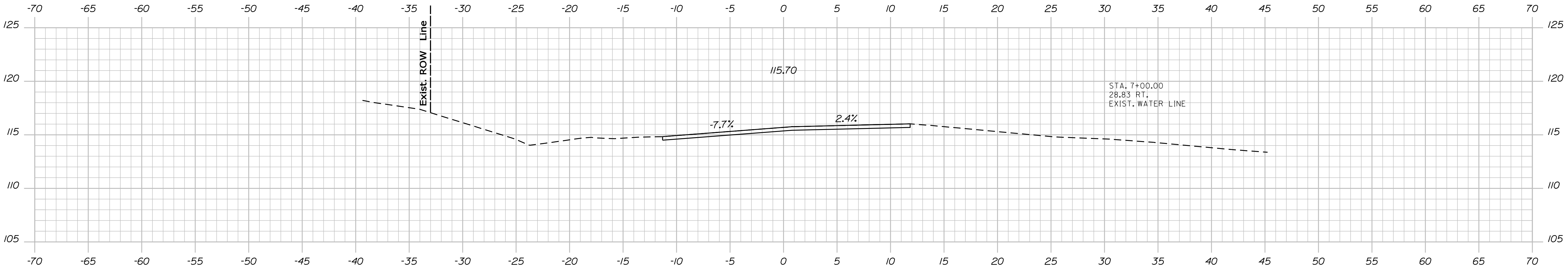
STANDARD RAILROAD CROSSING DETAIL	DESIGN-DETAILED		B. JAMESON	R. NIMON	05/2011
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	DESIGN-DETAILED2				
	DESIGN-DETAILED3				
	REVISED 1				
	REVISED 2				
	REVISED 3				
	REVISED 4				
	FIELD CHANGES				
SHEET NUMBER	8	OF 23	STATE OF MICHIGAN DEPARTMENT OF TRANSPORTATION 18107.00 & 18107.10 PIN 18107.00 & 18107.10		

Date:5/12/2011

Username: richard.nimon

Division: BRIDGE

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TYPICAL DESIGN SECTION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
	BH-1791(300)X	
	BRIDGE NO. 5781	PIN 17913.00
BRIDGE PLANS		

PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	R.J. NIMON TEAM SOUTH TEAM SOUTH	BY R. NIMON	DATE 05/2011 05/2011	SIGNATURE	P.E. NUMBER	DATE

SWEETSER BRIDGE ROYAL RIVER CUMBERLAND COUNTY	GRAY	CROSS SECTIONS

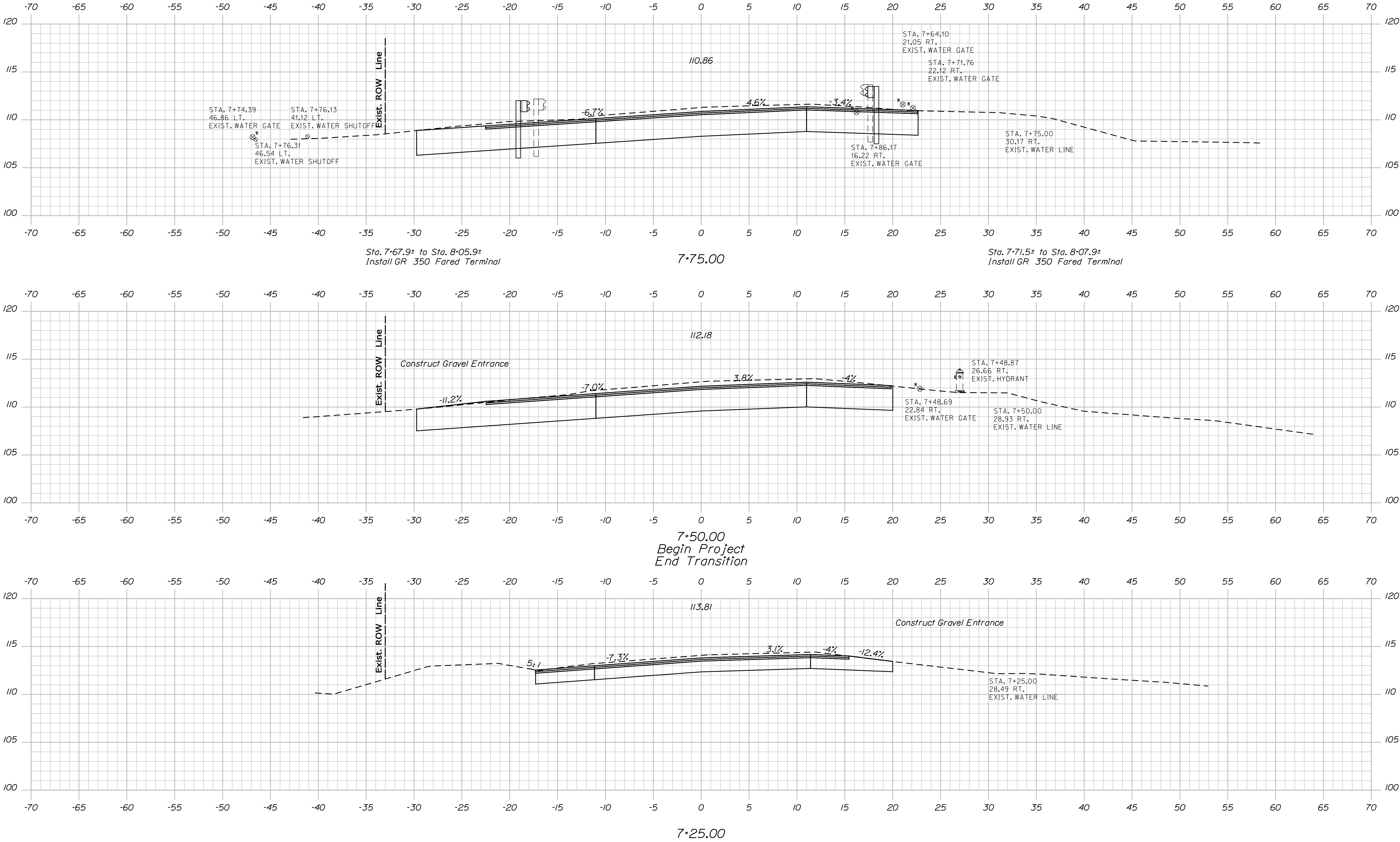
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Date:5/12/2011

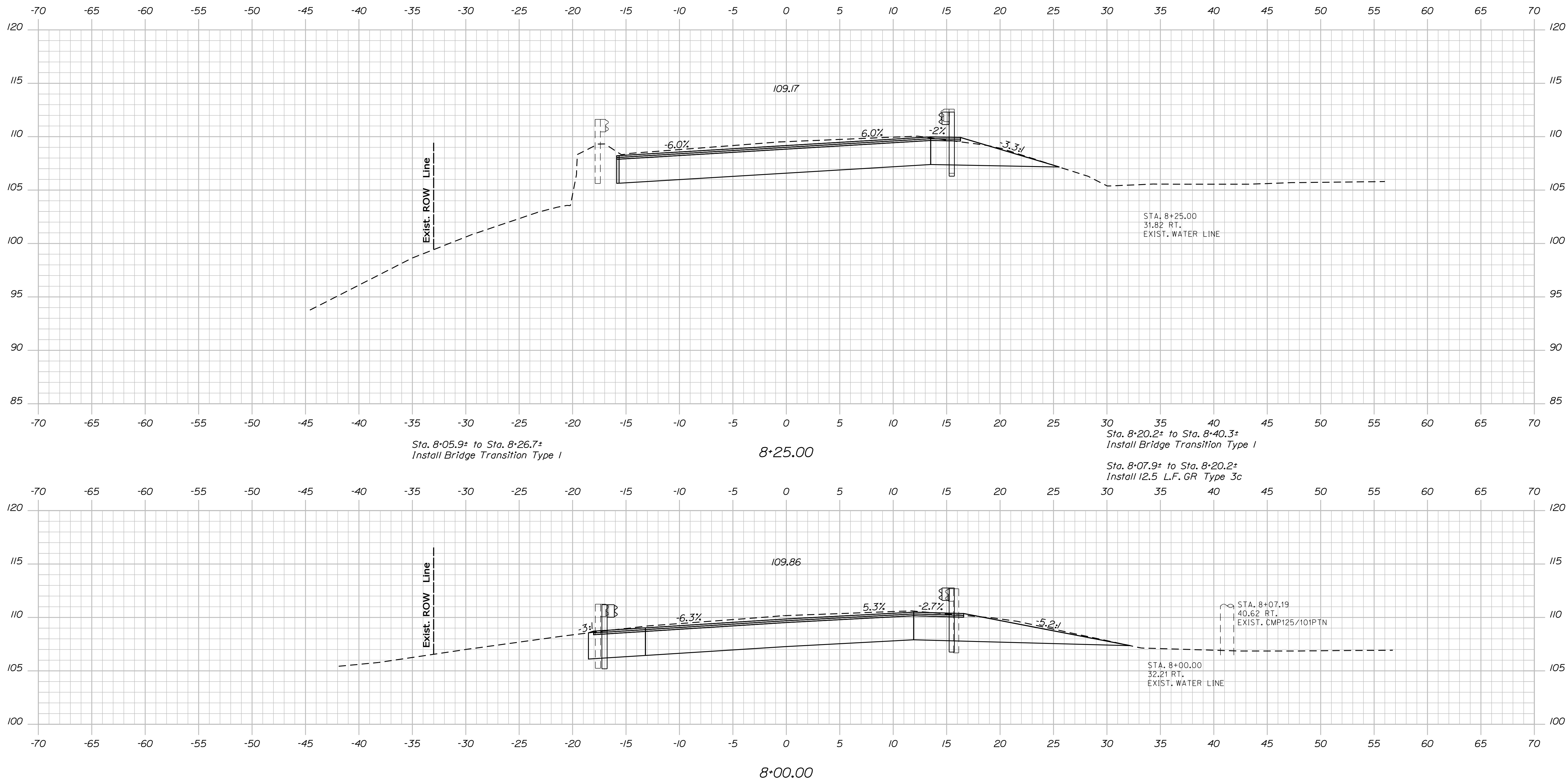
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Division: BRIDGE

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	SIGNATURE		P.E. NUMBER		DATE												
	R.J. NIMON		TEAM SOUTH		TEAM SOUTH												
PROJ. MANAGER		CHECKED-REVIEWED		DESIGN-DETAILED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		FIELD CHANGES	
SWEETSER BRIDGE		ROYAL RIVER		CUMBERLAND COUNTY		GRAY		CROSS SECTIONS		SHEET NUMBER		10		OF 23			

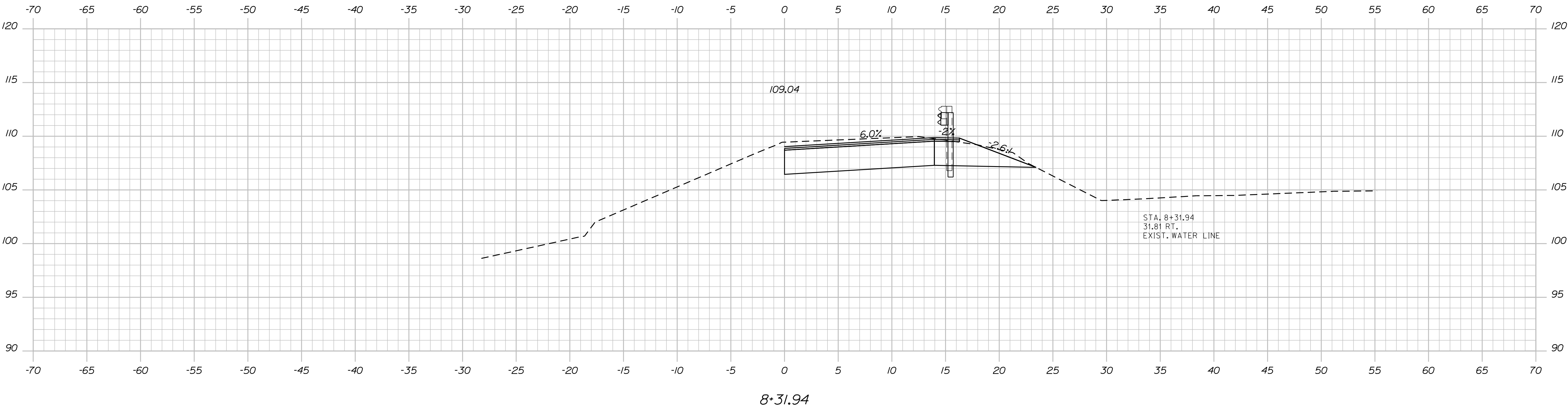
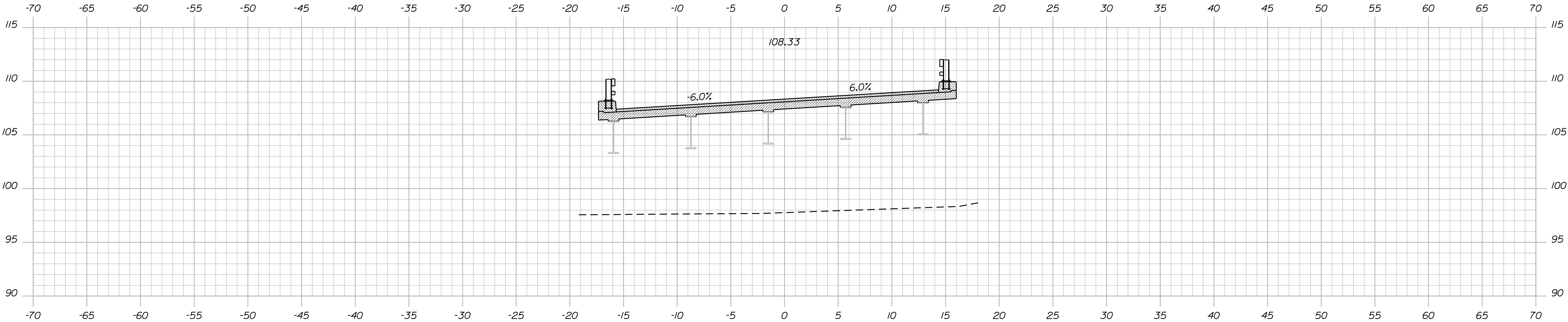


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Division: BRIDGE

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STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
BH-1791(300)X	
BRIDGE NO. 5781	PIN 17913.00
BRIDGE PLANS	

PROJ. MANAGER	R.J. NIMON	BY	DATE
CHECKED-REVIEWED	TEAM SOUTH	TEAM SOUTH	05/2011
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SWEETSER BRIDGE	ROYAL RIVER	CUMBERLAND COUNTY
GRAY	CROSS SECTIONS	

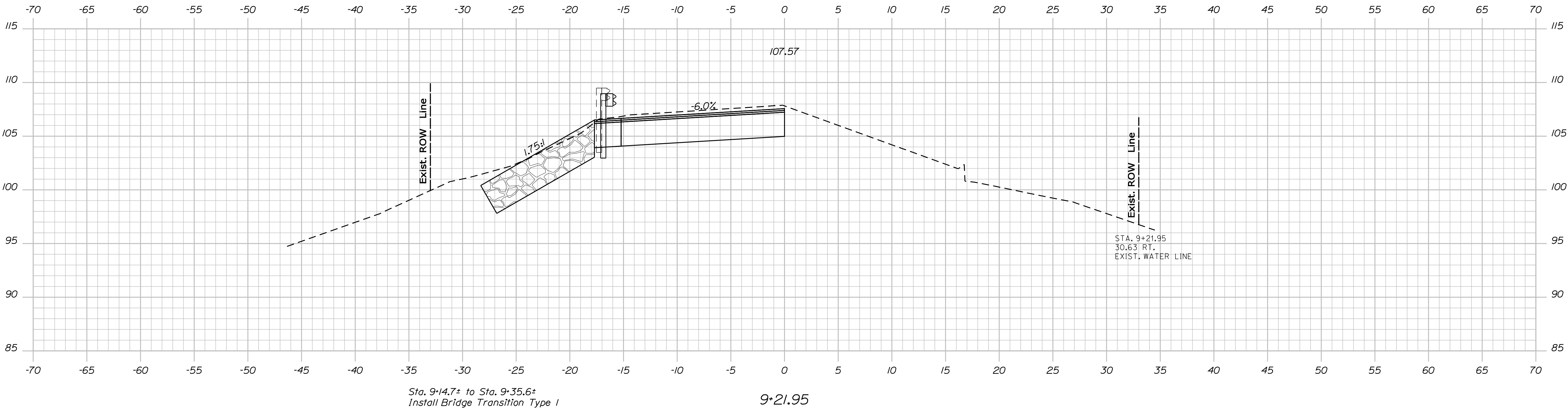
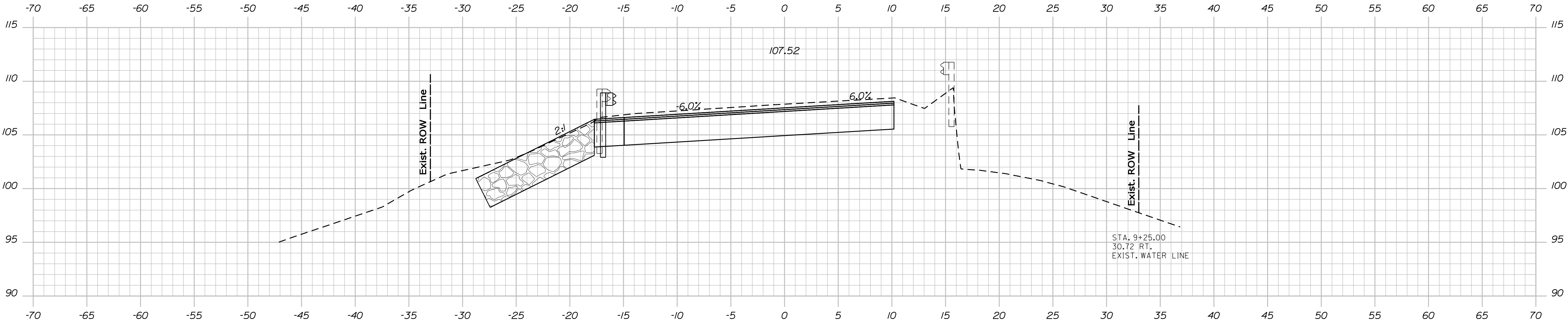
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OF 23

Date:5/12/2011

Username: richard.nimon

Division: BRIDGE

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STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
BH-1791(300)X	
BRIDGE NO. 5781	PIN 17913.00
BRIDGE PLANS	

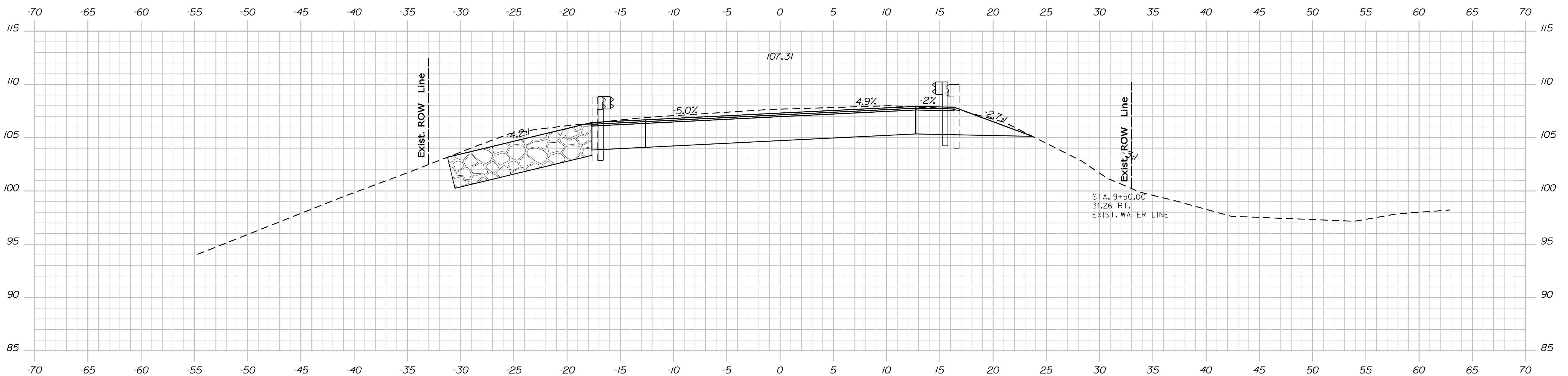
PROJ. MANAGER	R.J. NIMON	BY	DATE
CHECKED-REVIEWED	TEAM SOUTH R. NIMON	TEAM SOUTH	05/2011
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SWEETSER BRIDGE	CUMBERLAND COUNTY	CROSS SECTIONS
ROYAL RIVER		
GRAY		

SHEET NUMBER
13
OF 23

Sta. 9+21.95 to Sta. 9+25.00

Filename: ... \014_Xsect_MainLine_9+50_006.dgn



Sta. 9+44.5± to Sta. 9+81.4±
Install 37.5 L.F. GR Type 3c

Sta. 9+50.00 to Sta. 9+75.00

SHEET NUMBER

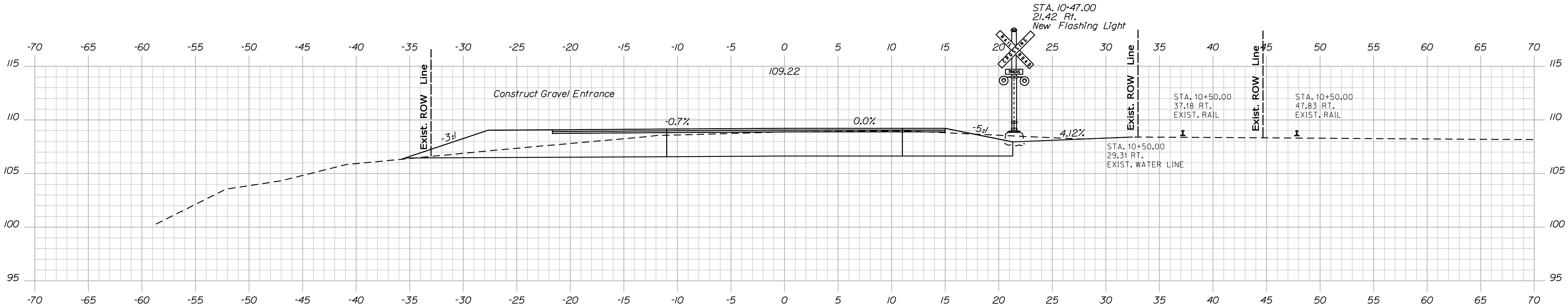
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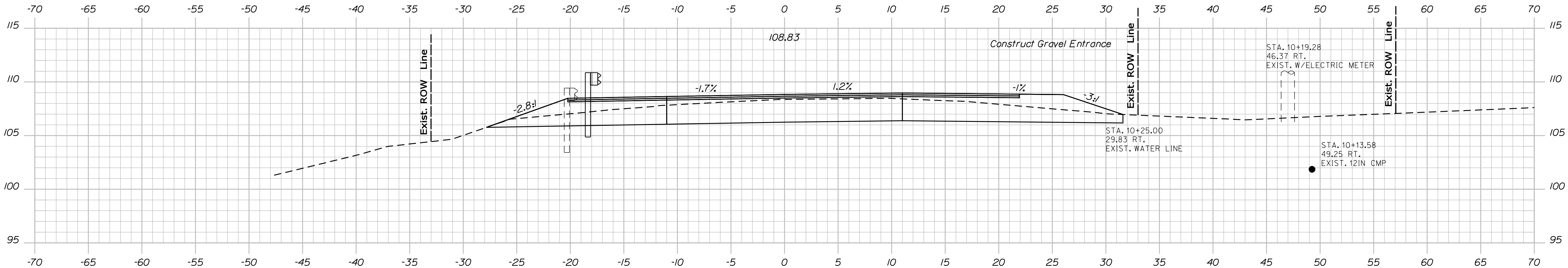
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Username: richard.nimon

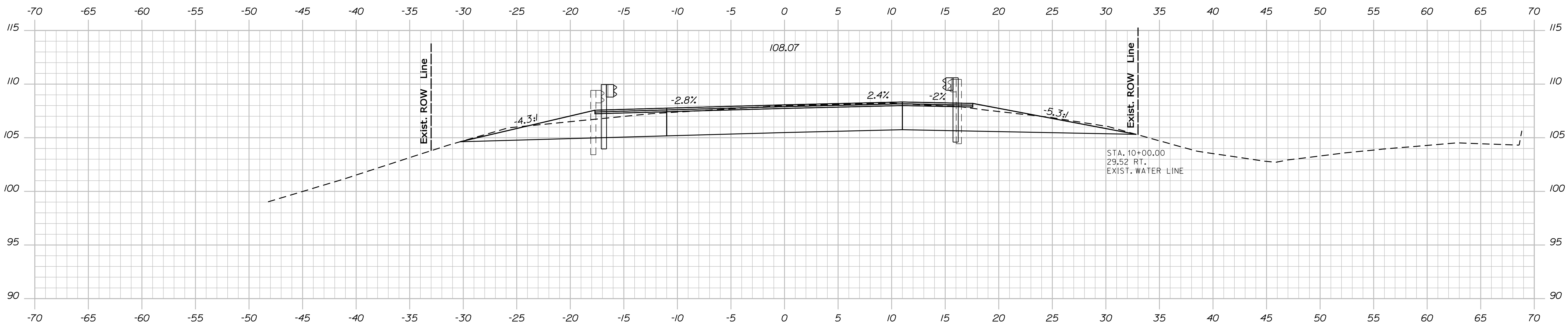
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10+50.00



10+25.00

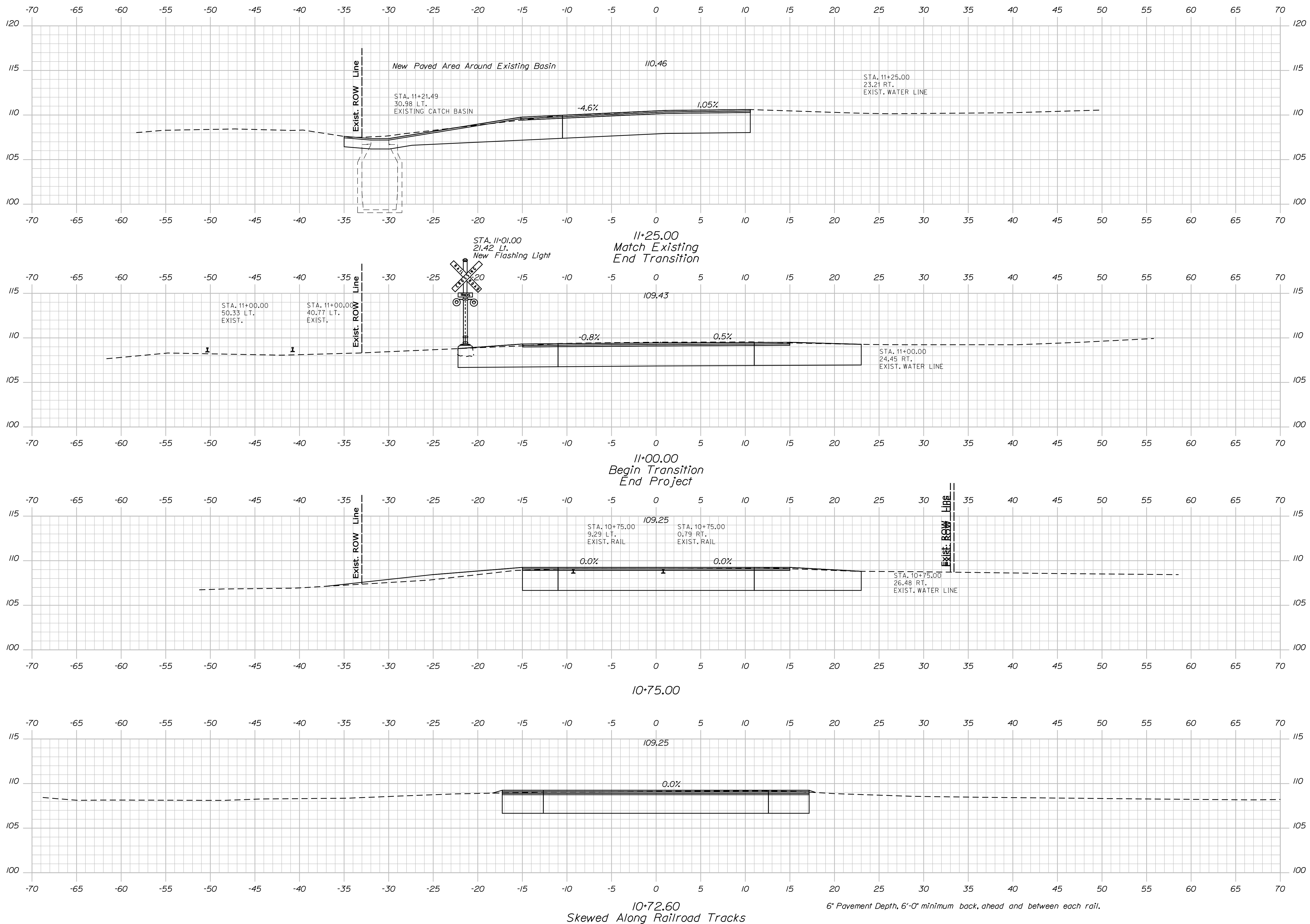


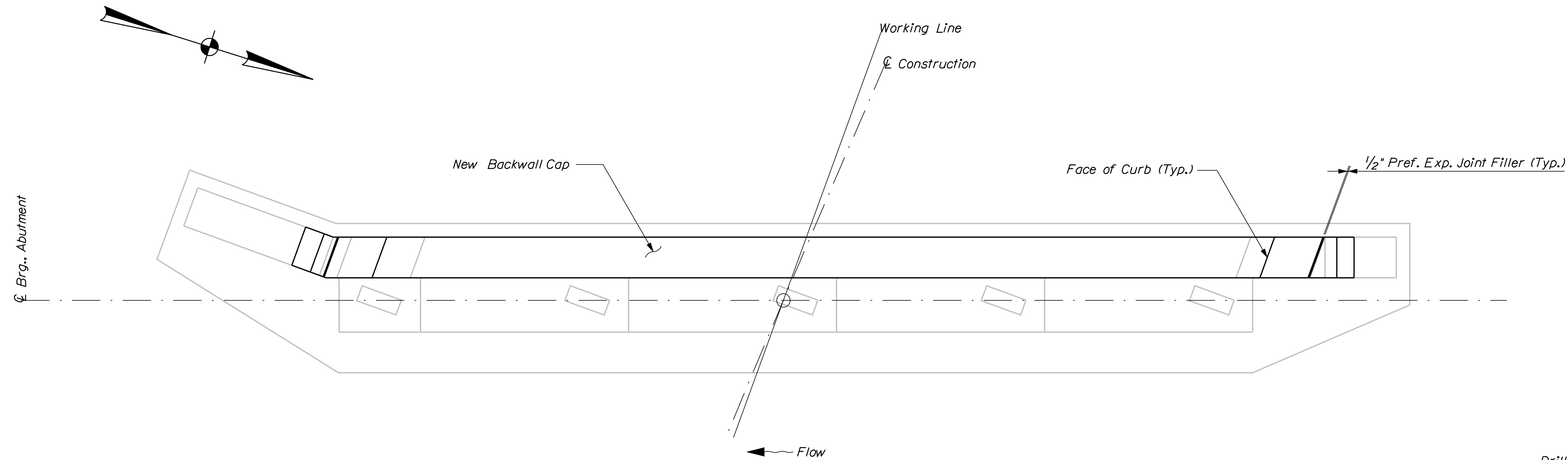
10+00.00

Sta. 9+99.3+ to Sta. 10+37.3+
Install GR 350 Fared Terminal

Sta. 9+81.4+ to Sta. 10+17.8+
Install GR 350 Fared Terminal

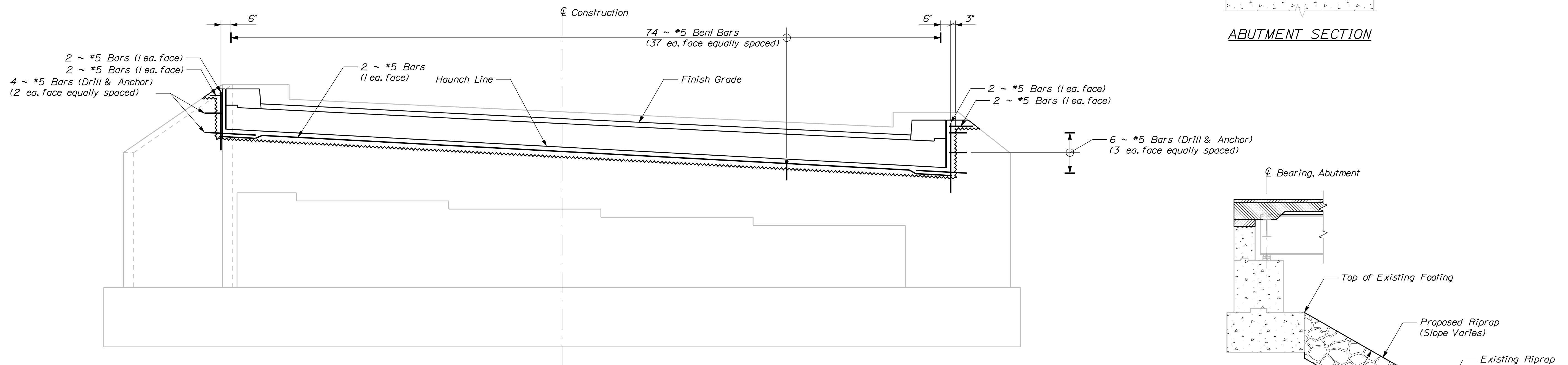
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BH-1791(300)X		PIN		BRIDGE NO. 5781		BRIDGE PLANS	
SWEETSER BRIDGE		ROYAL RIVER		CUMBERLAND COUNTY		GRAY		CROSS SECTIONS		SHEET NUMBER	
15		OF 23		SIGNATURE		P.E. NUMBER		DATE		17913.00	
PROJ. MANAGER		BY		DATE		DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED	
TEAM SOUTH		TEAM SOUTH		05/2011		TEAM SOUTH		TEAM SOUTH		05/2011	
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		FIELD CHANGES			





ABUTMENT PLAN

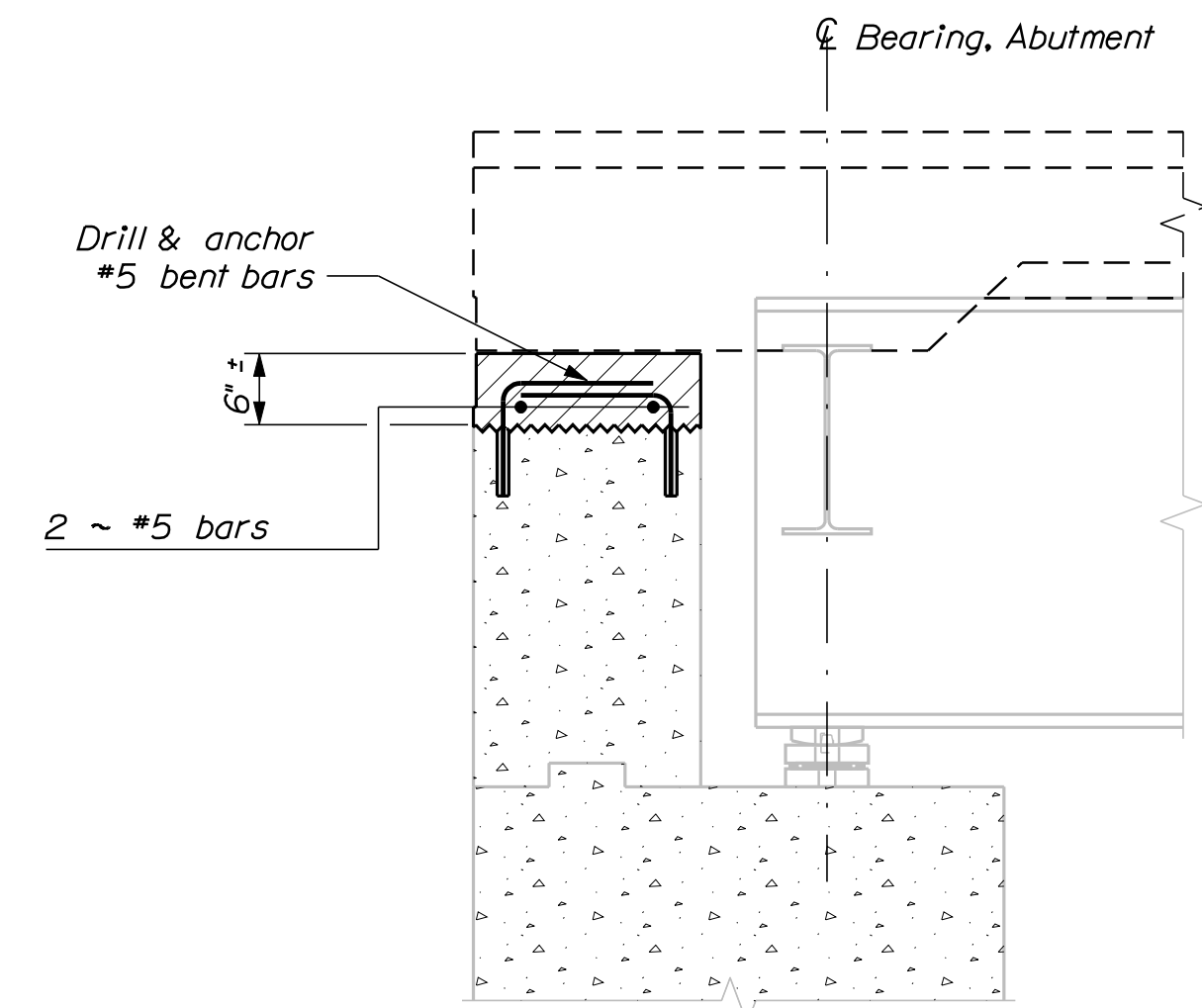
Abutment No. 1 Shown - Abutment No. 2 Similar



ABUTMENT ELEVATION

Abutment No. 1 Shown - Abutment No. 2 Similar

ABUTMENT SECTION

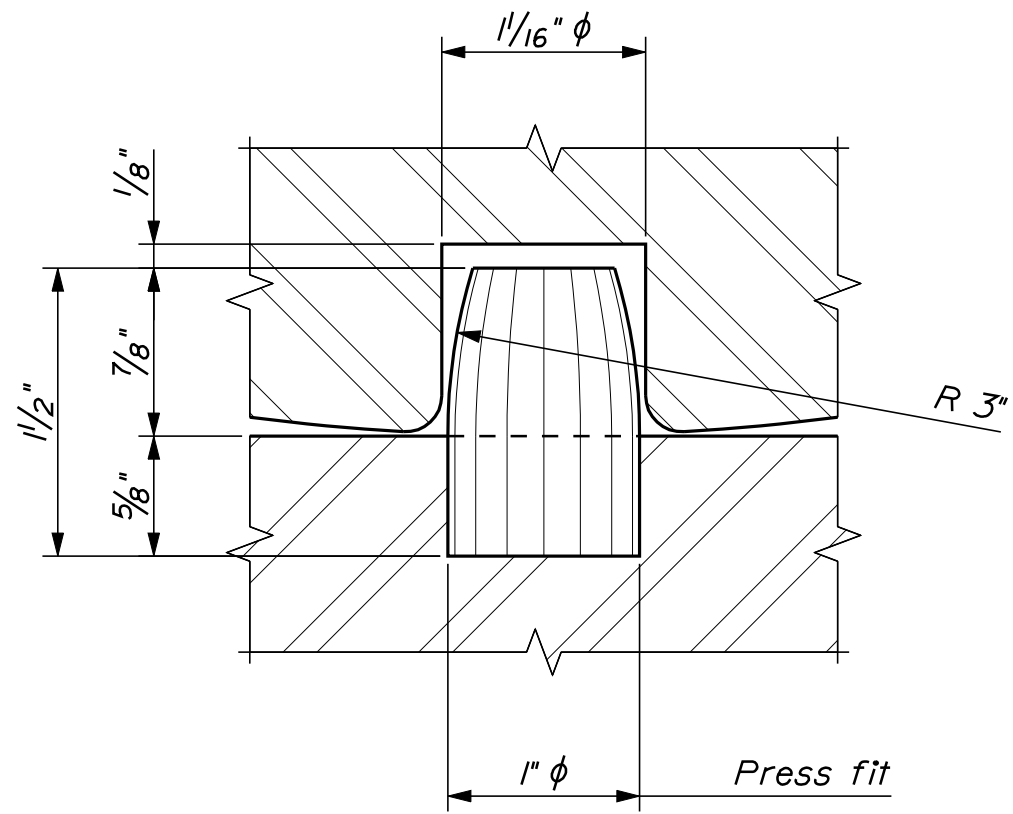


TYPICAL RIPRAP DETAIL

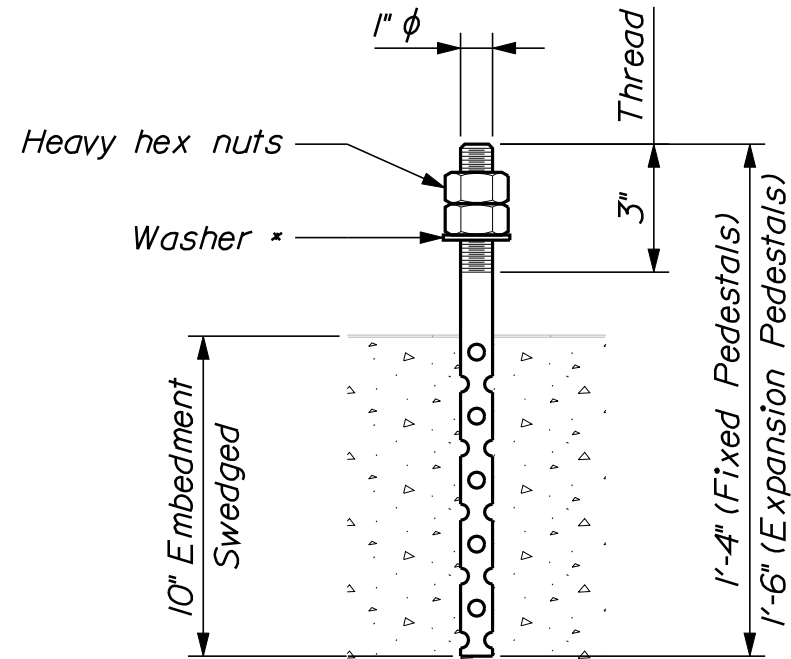
ABUTMENT NOTES

1. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
2. Existing granular material to be excavated in order to reconstruct the backwalls and wingwalls as shown shall be used to backfill the excavated areas. The material shall be compacted as directed by the Resident. Payment for excavation and backfill of existing granular material will be considered incidental to Contract Items.
3. Payment for removal of all existing concrete and expansion joint armor required to reconstruct the back-walls and wingwalls as shown will be paid for under Item No. 202.17, Removing Existing Structural Concrete.

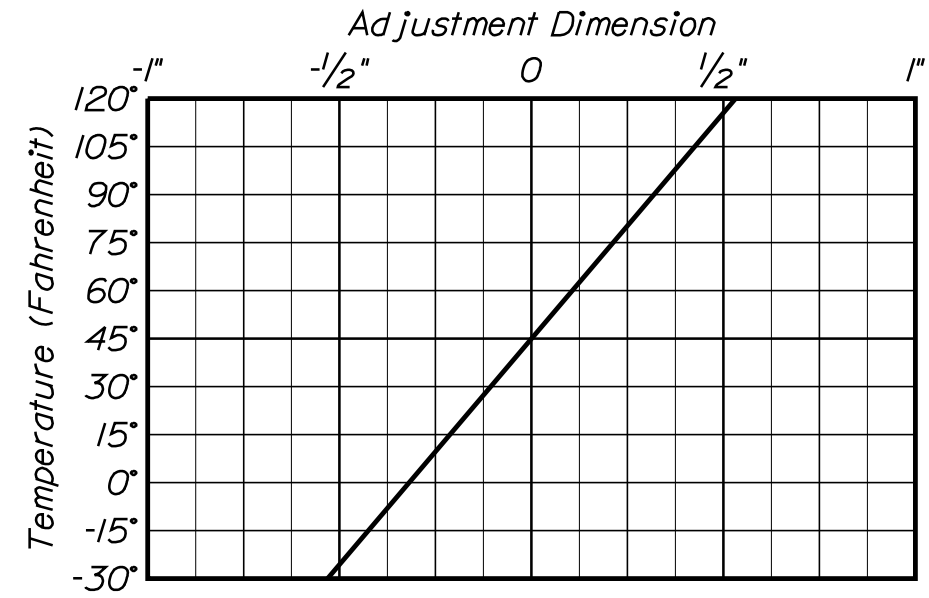
[illegible]



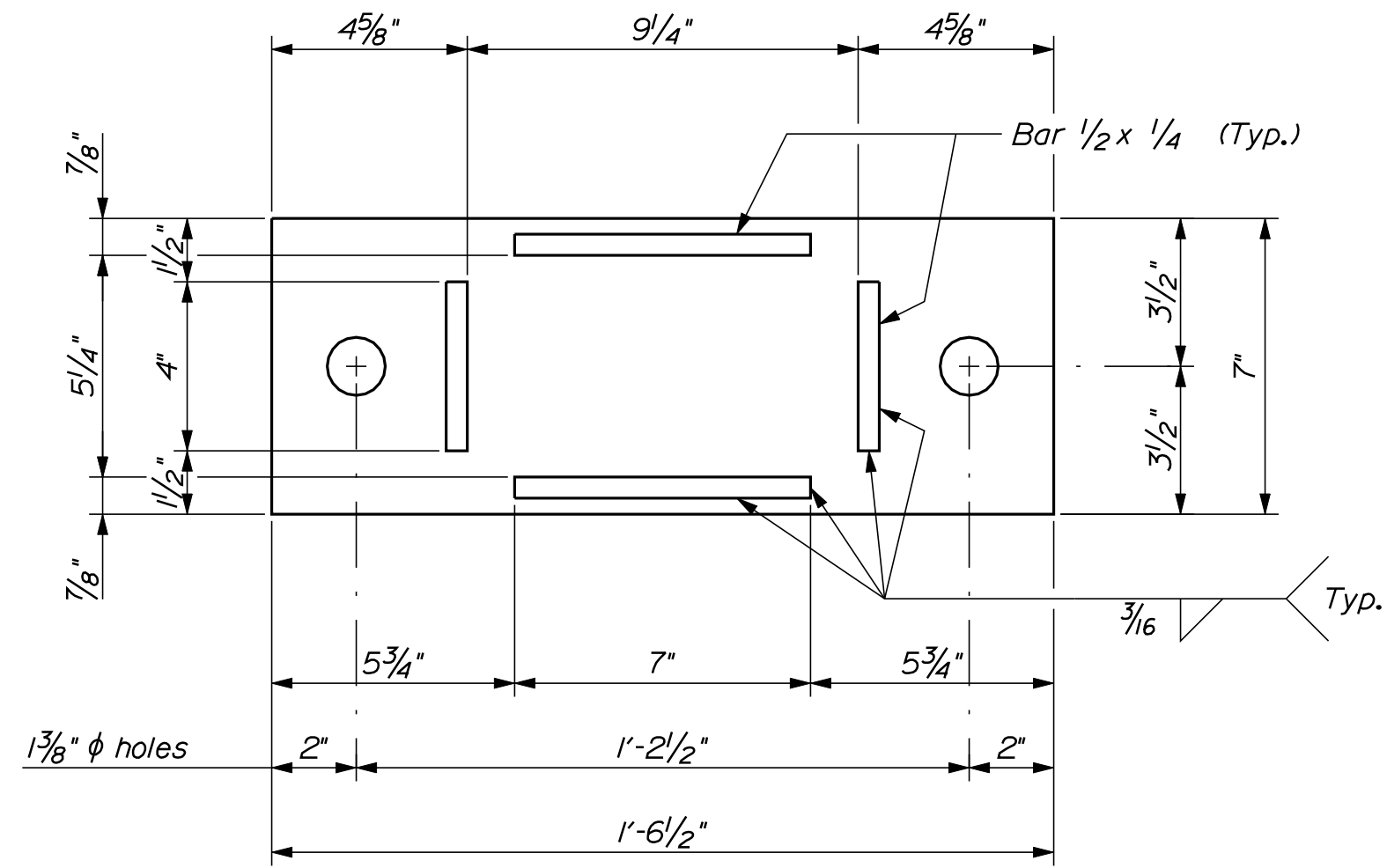
PINTLE DETAIL



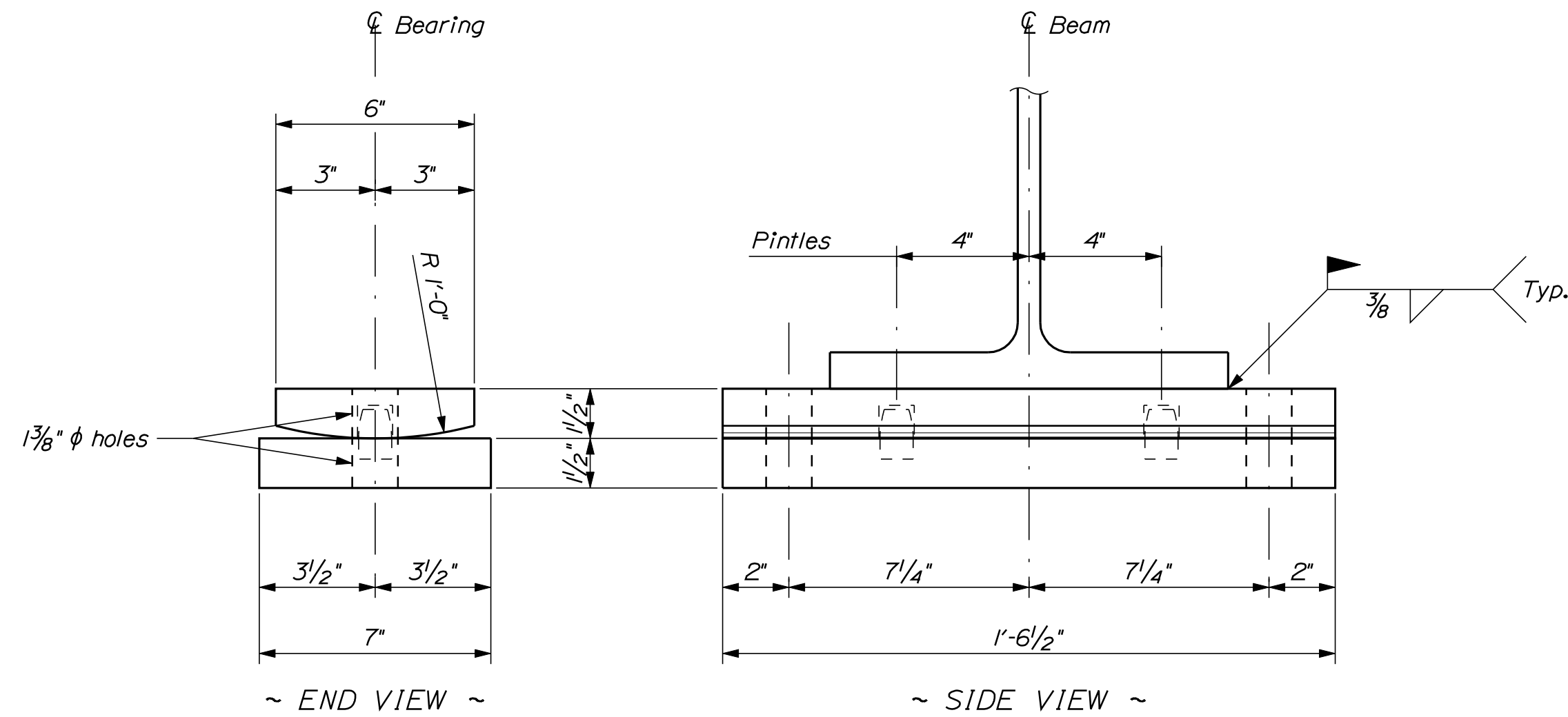
ANCHOR BOLT DETAIL
* Plain hardened washer (Fixed Pedestals) or
Plate washer 3x1/4 x 0'-4" (Expansion Pedestals)



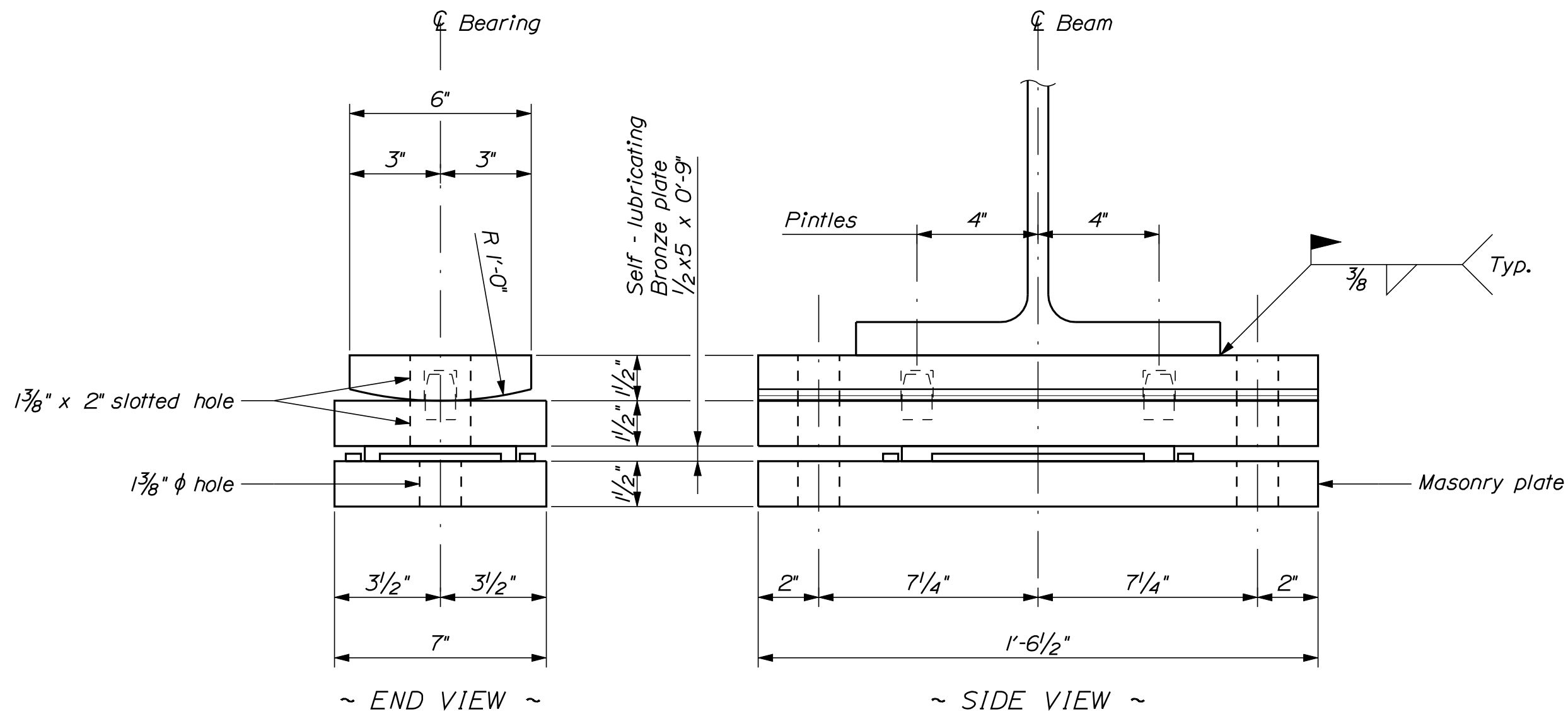
BEARING SETTING CHART
A positive dimension is toward the abutment backwall



MASONRY PLATE PLAN



FIXED BEARING PEDESTAL
5 pedestals located at Abutment No. 2



EXPANSION BEARING PEDESTAL
5 pedestals located at Abutment No. 1

SHEET NUMBER				STATE OF MAINE			
18				DEPARTMENT OF TRANSPORTATION			
OF 23				BH-1791(300)X			
SWEETSER BRIDGE ROYAL RIVER CUMBERLAND COUNTY GRAY BEARING DETAILS				PROJ. MANAGER	R. J. NIMON	BY	DATE
				DESIGN-DETAILED	TEAM SOUTH	TEAM SOUTH	05/2011
				CHECKED-REVIEWED	TEAM SOUTH		05/2011
				DESIGN2-DETAILED2			SIGNATURE
				DESIGN3-DETAILED3			P.E. NUMBER
				REVISIONS 1			
				REVISIONS 2			
				REVISIONS 3			
				REVISIONS 4			DATE
				FIELD CHANGES			
				BRIDGE NO. 5781	PIN 17913.00	BRIDGE PLANS	

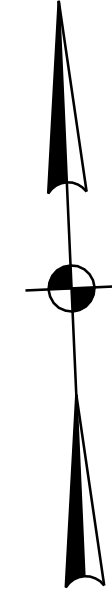


Diagram showing the elevation view of the bridge deck. The deck is 12 feet wide, with 79 spaces @ 12 inches. The ends of the deck are finished with 4 spaces @ 9 inches and double studs. The diagram is labeled "Double Studs" on the left and "4 spaces @ 9" on both ends. The central section is labeled "79 spaces @ 12".

7'-2 1/2" Normal
7'-8" Skewed

4" Typ.

2" Typ.

Cut & chip
Far side only (Typ.) 5"

W 16x36 x 7'-2"

Existing W 36x170 (Typ.)

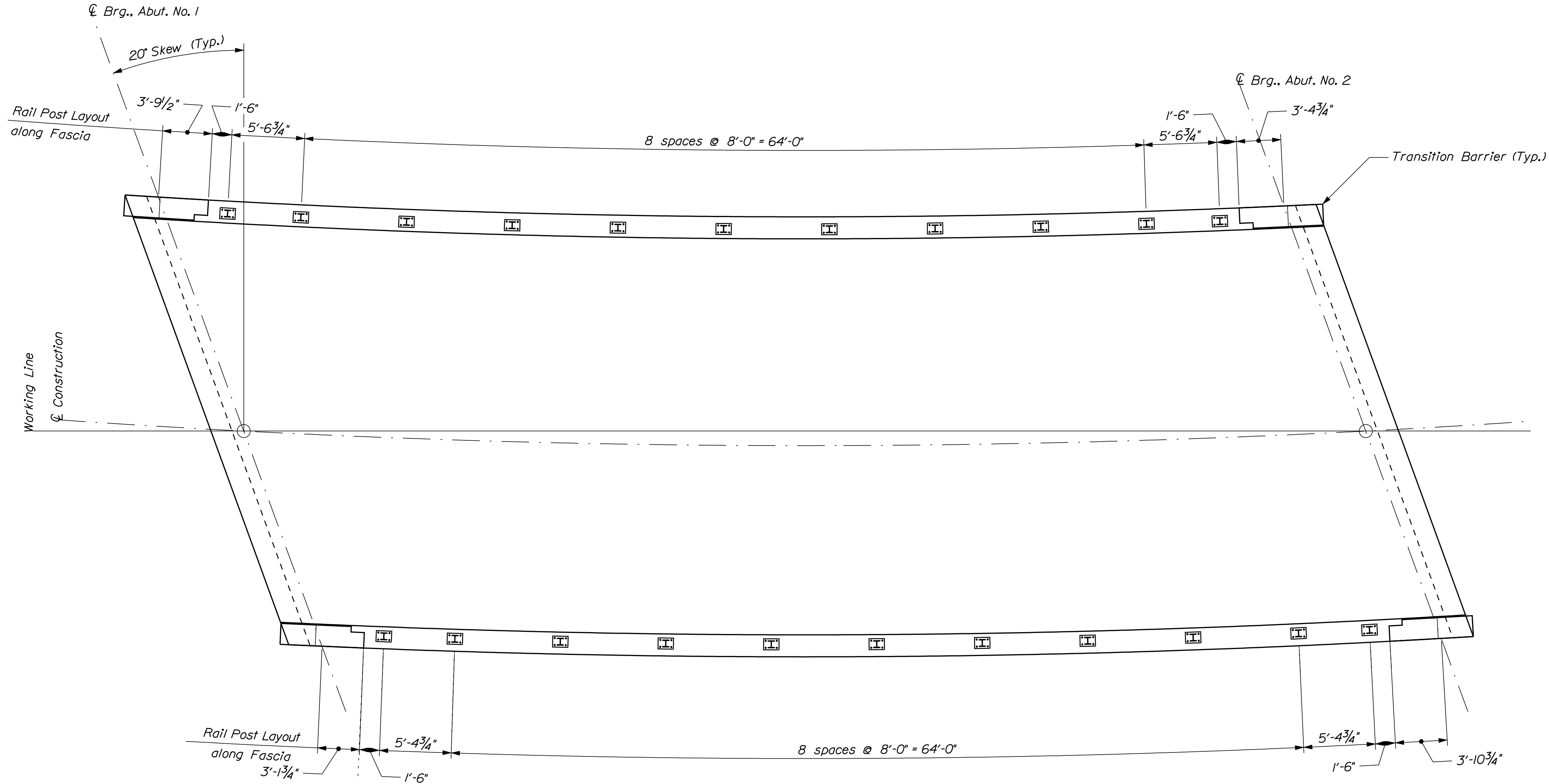
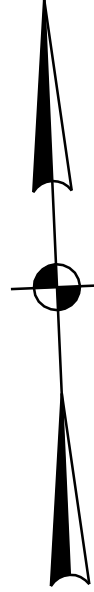
3"

6x3/8 (Typ.)

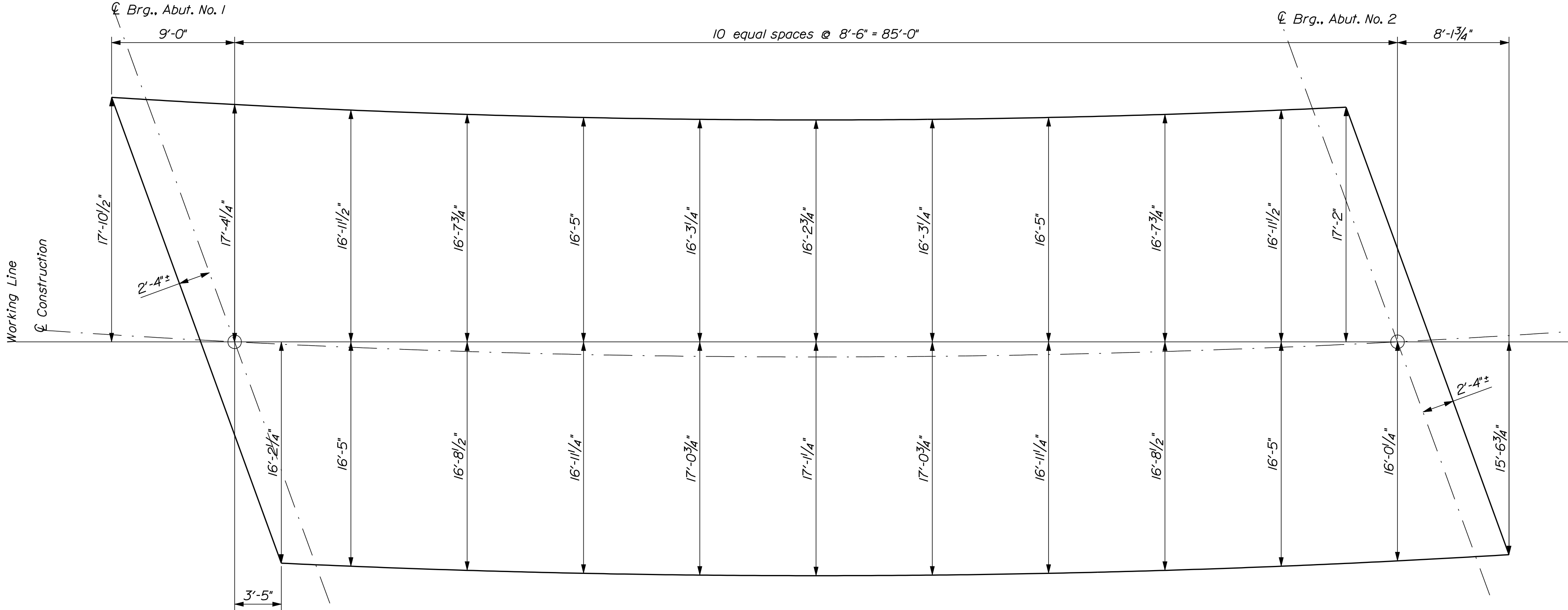
5/16 Typ.

5/16 Typ.

1. Care shall be taken during the removal of the existing diaphragm such that no base metal is removed from the beam web.
2. Payment for removing the existing diaphragm will be considered incidental to related Contract items.
3. The top flanges of the beams shall be prepared for welding of the shear studs in accordance with Subsection 505.03 of the Standard Specifications. Payment will be considered incidental to Item No. 505.08, Shear Connectors.



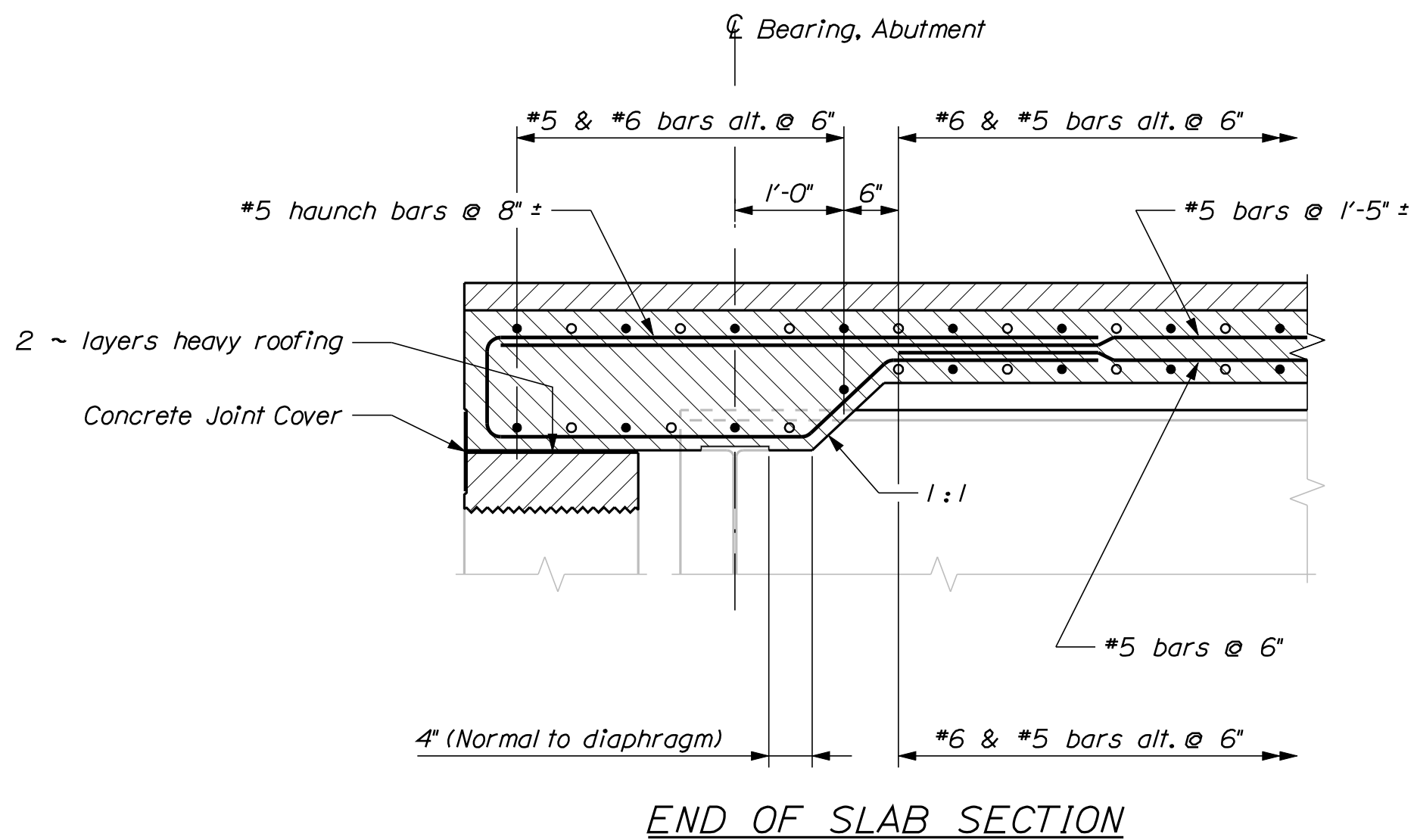
SUPERSTRUCTURE PLAN



FASCIA LAYOUT

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BH-1791(300)X		BRIDGE NO. 5781	
PIN		17913.00	
BRIDGE PLANS			
SHEET NUMBER		20	
OF 23			
SWEETSER BRIDGE		ROYAL RIVER	
GRAY		CUMBERLAND COUNTY	
SUPERSTRUCTURE PLAN			
PROJ. MANAGER		R.J. NIMON	
DESIGNED-DETAILED		TEAM SOUTH R. NIMON	
CHECKED-REVIEWED		TEAM SOUTH	
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
DATE		05/2011	
SIGNATURE			
P.E. NUMBER			
DATE			

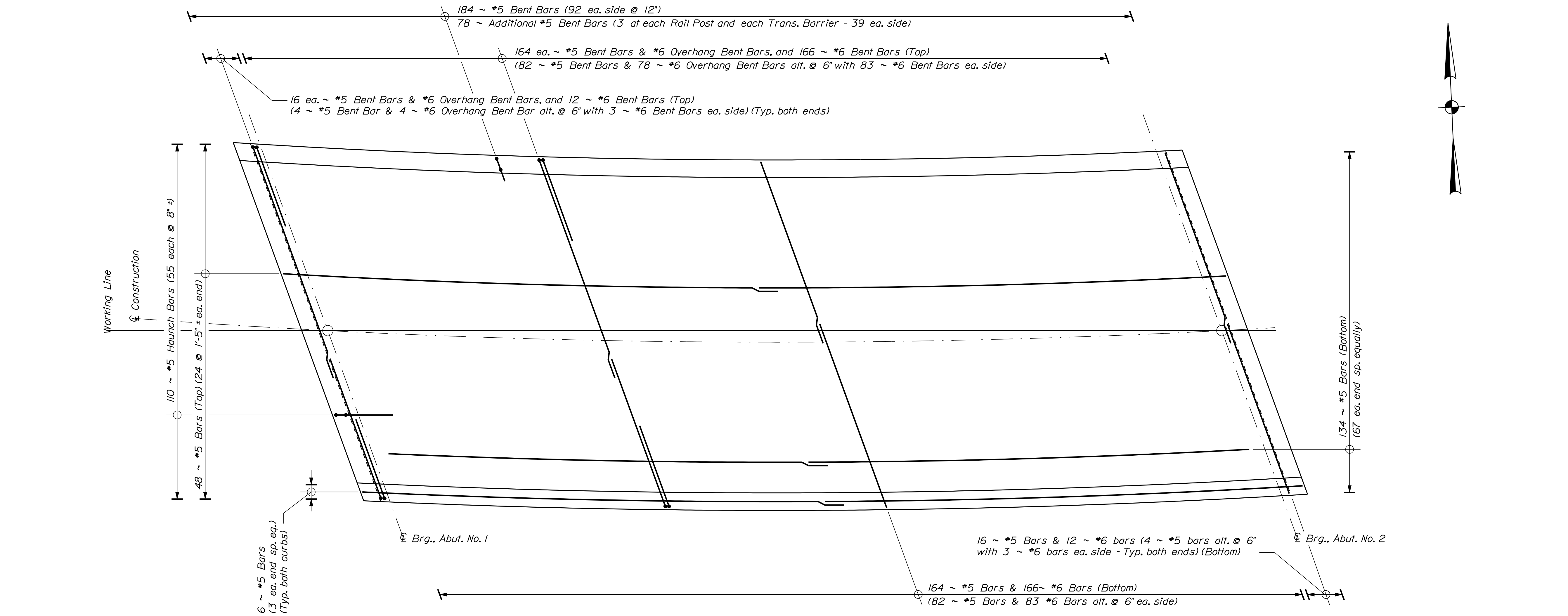
BOTTOM OF SLAB ELEVATIONS												
Beam	℄ Brg. Abut No. 1	•8.5'	•17.0'	•25.5'	•34.0'	•42.5'	•51.0'	•59.5'	•68.0'	•76.5'	℄ Brg. Abut No. 2	Beam
1	107.32	107.20	107.08	106.96	106.84	106.70	106.55	106.39	106.22	106.04	105.86	1
2	107.68	107.58	107.48	107.37	107.25	107.12	106.97	106.81	106.63	106.45	106.27	2
3	108.05	107.96	107.86	107.76	107.64	107.51	107.36	107.20	107.03	106.85	106.67	3
4	108.43	108.34	108.24	108.14	108.03	107.90	107.76	107.60	107.43	107.25	107.07	4
5	108.81	108.71	108.61	108.50	108.38	108.26	108.12	107.97	107.81	107.64	107.48	5



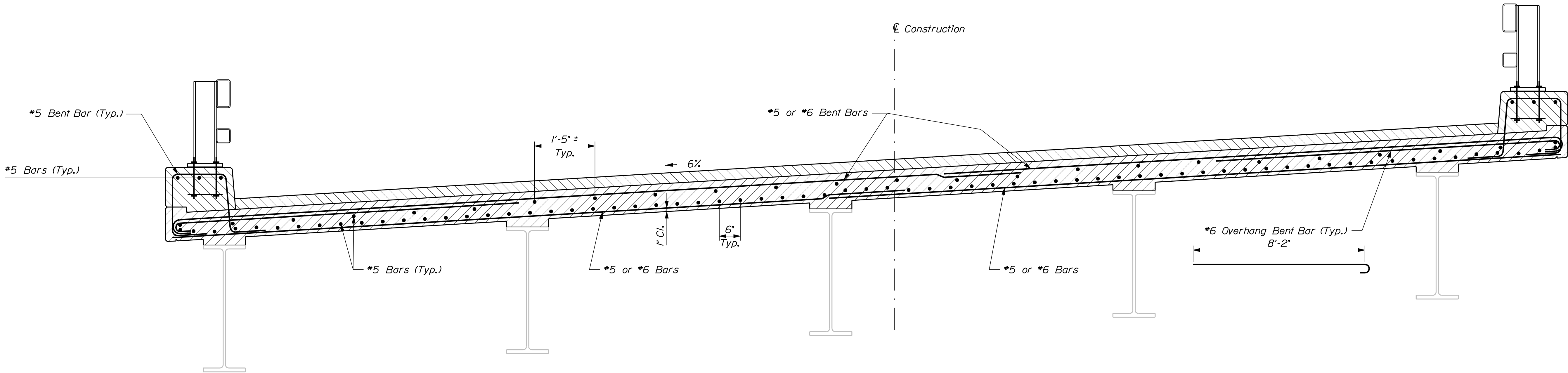
SUPERSTRUCTURE NOTES

1. The theoretical blocking used for design of the structure varies due to the curvature of the existing structural steel. Refer to Standard Detail 502(02) for blocking details.
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 until the entire placement has been completed.
5. At the Contractor's option, Precast Deck Panels may be used in place of the full depth cast-in-place deck slab, in accordance with Special Provisions Section 502, Structural Concrete - Precast Deck Panels, and in accordance with the Standard Details.
6. Payment for reinforcing steel fabricated, delivered, and placed in the cast-in-place portion of the structural concrete slab will be considered incidental to the appropriate Standard Specifications Section 502 pay item.
7. Provide 3 additional stirrups in the curbs at each Transition Barrier location.
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.

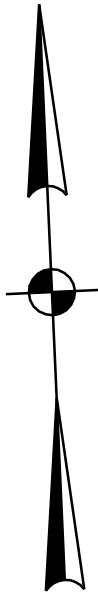
SHEET NUMBER		STATE OF MAINE			
21		DEPARTMENT OF TRANSPORTATION			
OF 23		BH-1791(300)X			
		BRIDGE NO. 5781			
		PIN			
		17913.00			
		BRIDGE PLANS			



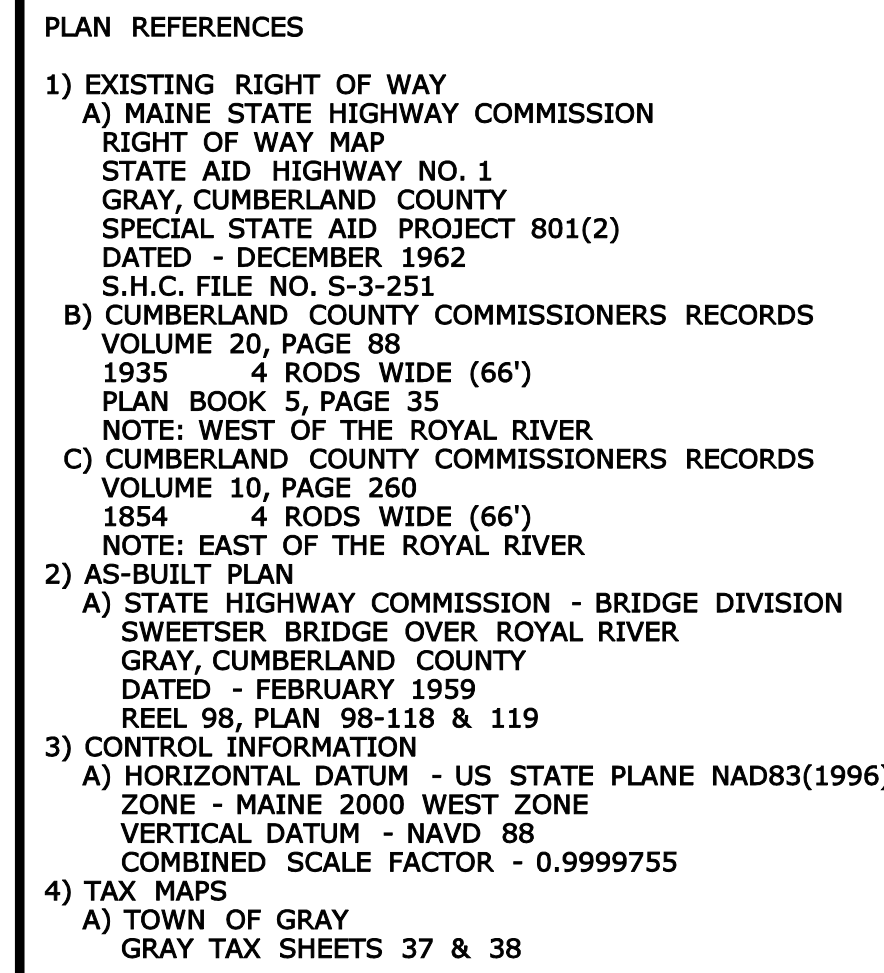
SUPERSTRUCTURE REINFORCING PLAN



TRANSVERSE REINFORCING SECTION



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BH-1791(300)X		SIGNATURE	
PIN 17913.00		P.E. NUMBER	
BRIDGE NO. 5781		DATE	
BRIDGE PLANS		FIELD CHANGES	
PROJ. MANAGER		R.J. NIMON	BY
DESIGNED-DETAILED		TEAM SOUTH	DATE
CHECKED-REVIEWED		TEAM SOUTH	05/2011
DESIGNS-DETAILED			05/2011
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
SWEETSER BRIDGE		GRAY	
ROYAL RIVER		CUMBERLAND COUNTY	
SUPERSTRUCTURE REINFORCING		SHEET NUMBER	
22		OF 23	



REVISIONS NO. DATE DESCRIPTION BY				PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD NO. GRANTOR INSTRUMENT DATE BOOK PAGE						DAVID A. COLE COMMISSIONER KENNETH L. SWEENEY CHIEF ENGINEER DATE			STATE AID HIGHWAY NO. 1 DEPOT ROAD GRAY CUMBERLAND COUNTY FEDERAL AID PROJECT NO. BH-1791(300)X		
													DECEMBER 2010 SCALE 1" = 25'	RIGHT-OF-WAY MAP SHEET 1 OF 1	D.O.T FILE NO. 3-575