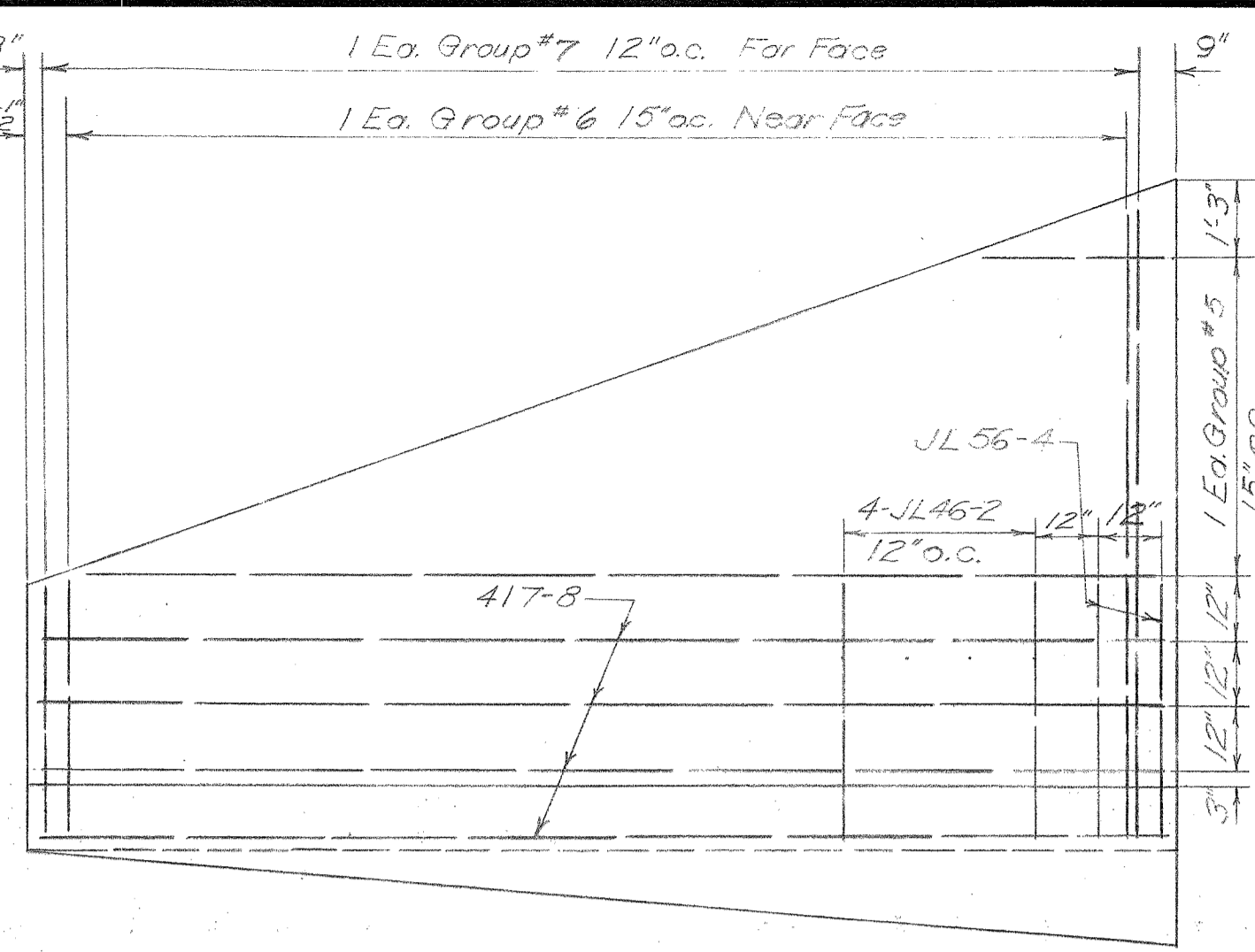
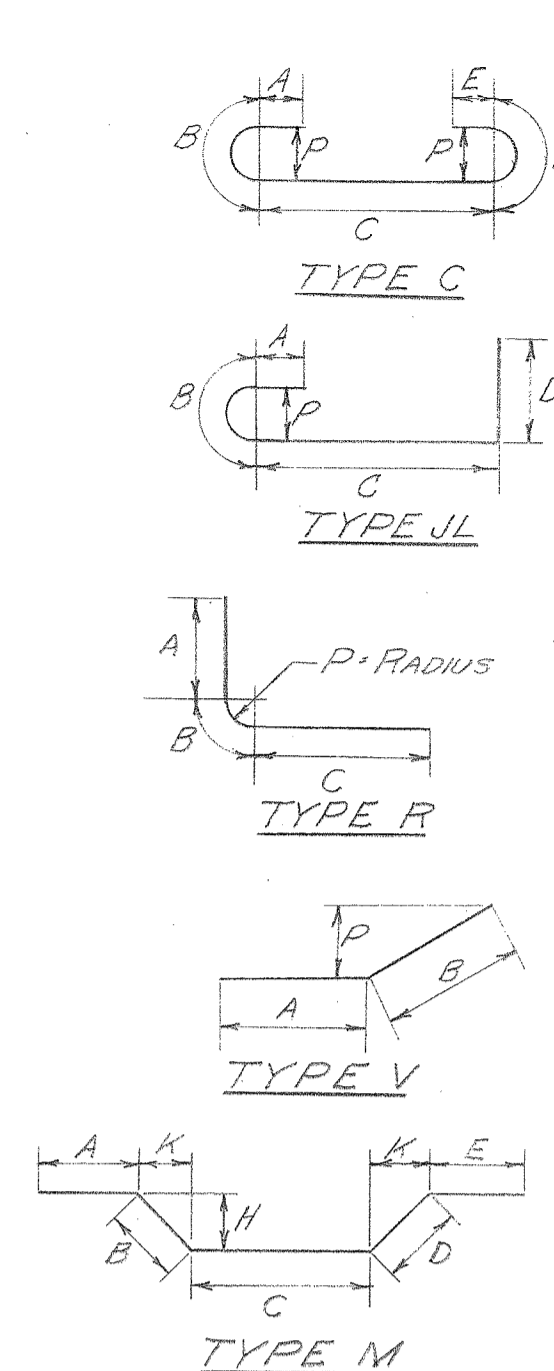


CROSS SECTION AT STA. 3129+40
No Scale



WINGWALL ELEVATION



REINFORCING SCHEDULE										
STRAIGHT BARS				BENT BARS						
NUMBER & SIZE	MARK & LENGTH	NUMBER & SIZE	MARK	BENDING DIMENSIONS						
				A	B	C	D	E	H	K
GROUP #4										
428	M422-4	7-11	0-8 1/2	5-1	0-8 1/2	7-11	0-6	0-6		
426	C523-5	0-3	0-9	2-5	0-9	0-3				
856	R37-5	4-11	0-7	1-11						
852	R34-5	1-11	0-7	1-11						
16	JL46-2	0-3 1/2	0-7	1-5 1/2	3-10					0-4
8	JL56-4	0-3 1/2	0-9	1-5 1/2	3-10					0-5
68	V45-9	3-6	2-3							1-11
GROUP #1										
424	M422-4	7-11	0-8 1/2	5-1	0-8 1/2	7-11	0-6	0-6		
426	C523-5	0-3	0-9	2-5	0-9	0-3				
856	R37-5	4-11	0-7	1-11						
852	R34-5	1-11	0-7	1-11						
16	JL46-2	0-3 1/2	0-7	1-5 1/2	3-10					0-4
8	JL56-4	0-3 1/2	0-9	1-5 1/2	3-10					0-5
68	V45-9	3-6	2-3							1-11
GROUP #2										
424	M422-4	7-11	0-8 1/2	5-1	0-8 1/2	7-11	0-6	0-6		
426	C523-5	0-3	0-9	2-5	0-9	0-3				
856	R37-5	4-11	0-7	1-11						
852	R34-5	1-11	0-7	1-11						
16	JL46-2	0-3 1/2	0-7	1-5 1/2	3-10					0-4
8	JL56-4	0-3 1/2	0-9	1-5 1/2	3-10					0-5
68	V45-9	3-6	2-3							1-11
GROUP #3										
424	M422-4	7-11	0-8 1/2	5-1	0-8 1/2	7-11	0-6	0-6		
426	C523-5	0-3	0-9	2-5	0-9	0-3				
856	R37-5	4-11	0-7	1-11						
852	R34-5	1-11	0-7	1-11						
16	JL46-2	0-3 1/2	0-7	1-5 1/2	3-10					0-4
8	JL56-4	0-3 1/2	0-9	1-5 1/2	3-10					0-5
68	V45-9	3-6	2-3							1-11
GROUP #5										
424	M422-4	7-11	0-8 1/2	5-1	0-8 1/2	7-11	0-6	0-6		
426	C523-5	0-3	0-9	2-5	0-9	0-3				
856	R37-5	4-11	0-7	1-11						
852	R34-5	1-11	0-7	1-11						
16	JL46-2	0-3 1/2	0-7	1-5 1/2	3-10					0-4
8	JL56-4	0-3 1/2	0-9	1-5 1/2	3-10					0-5
68	V45-9	3-6	2-3							1-11
GROUP #6										
424	M422-4	7-11	0-8 1/2	5-1	0-8 1/2	7-11	0-6	0-6		
426	C523-5	0-3	0-9	2-5	0-9	0-3				
856	R37-5	4-11	0-7	1-11						
852	R34-5	1-11	0-7	1-11						
16	JL46-2	0-3 1/2	0-7	1-5 1/2	3-10					0-4
8	JL56-4	0-3 1/2	0-9	1-5 1/2	3-10					0-5
68	V45-9	3-6	2-3							1-11
GROUP #7										
424	M422-4	7-11	0-8 1/2	5-1	0-8 1/2	7-11	0-6	0-6		
426	C523-5	0-3	0-9	2-5	0-9	0-3				
856	R37-5	4-11	0-7	1-11						
852	R34-5	1-11	0-7	1-11						
16	JL46-2	0-3 1/2	0-7	1-5 1/2	3-10					0-4
8	JL56-4	0-3 1/2	0-9	1-5 1/2	3-10					0-5
68	V45-9	3-6	2-3							1-11

Type of Bend - Omitted if Straight
Size of Bar in (5-8/16)
Length in Feet
Length in Inches - 0' if Omitted

EXPLANATION OF BAR MARKS

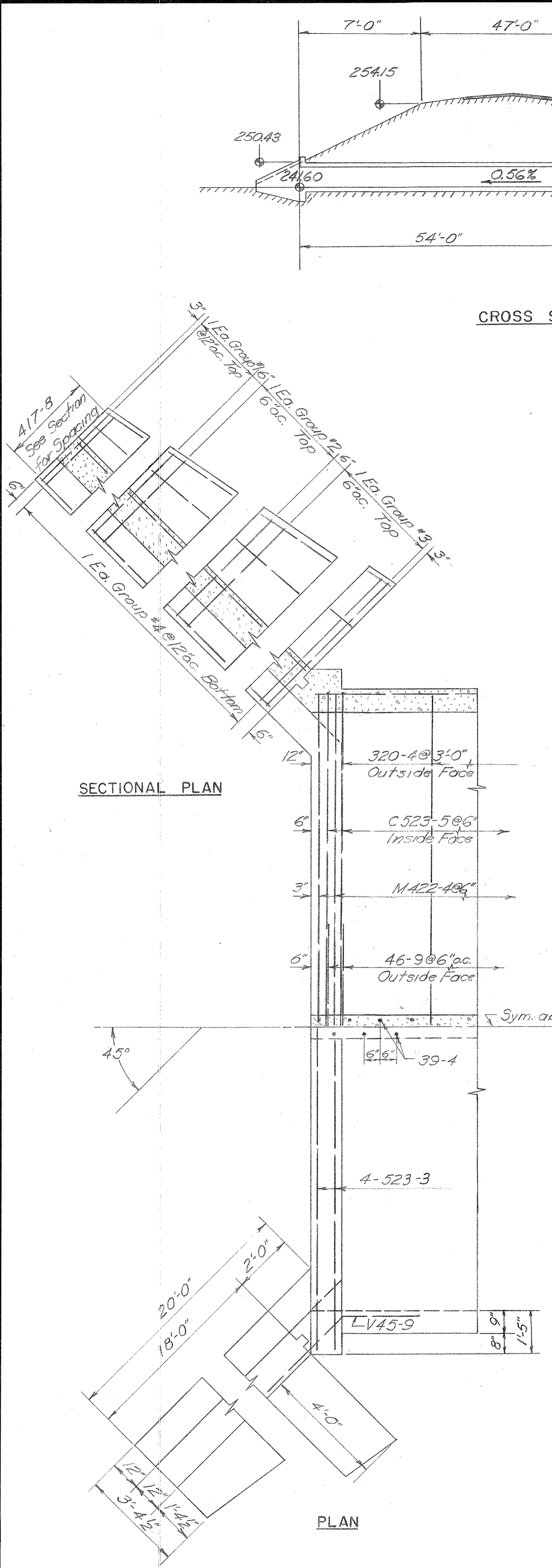
	CONCRETE CU. YDS.	STEEL LBS.
CULVERT BARREL	221.85	33,646
TWO HEADWALLS	6.44	455
FOUR WINGWALLS	31.33	2669

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
 SECTION 2 - PORTLAND TO AUGUSTA

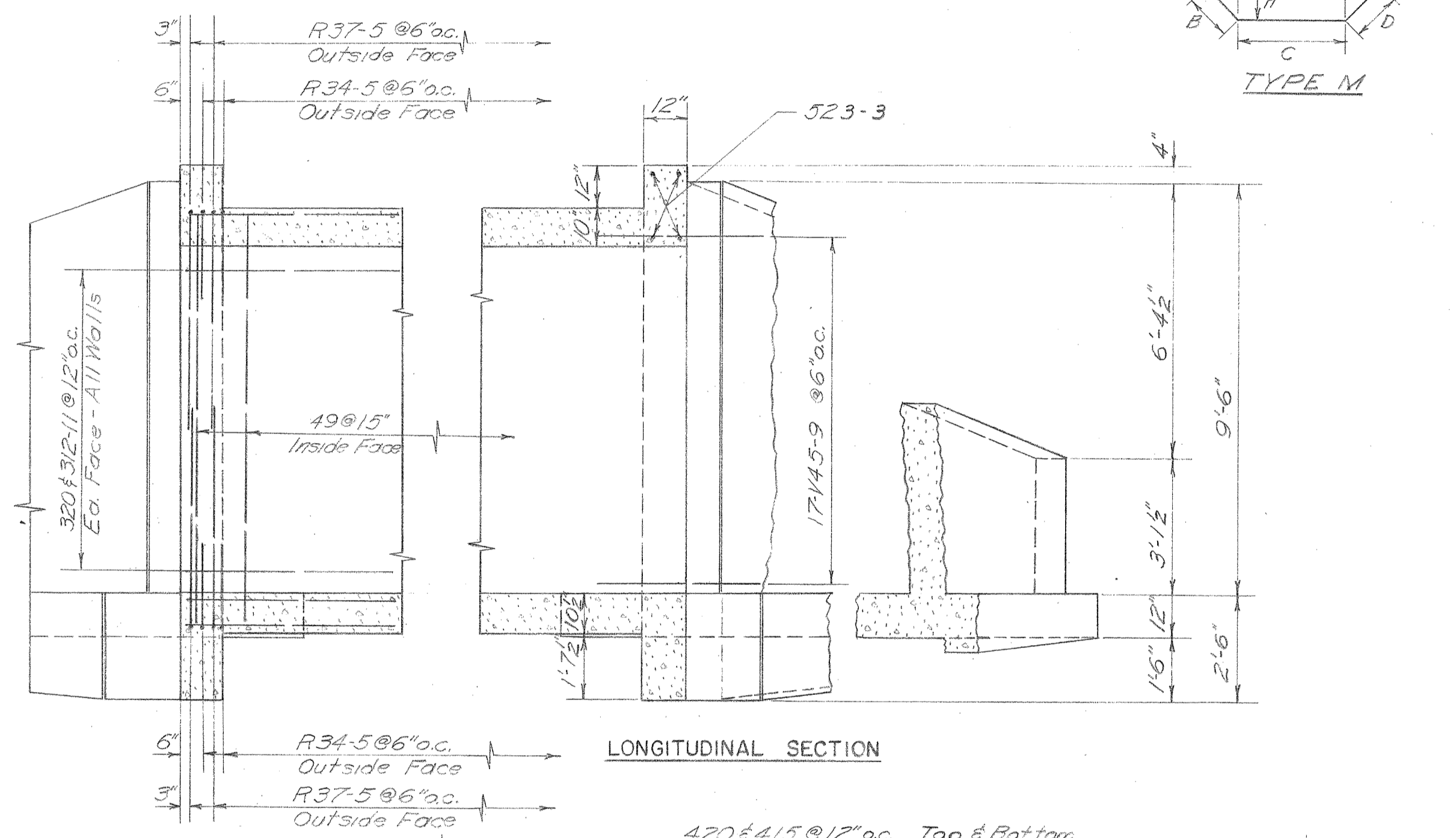
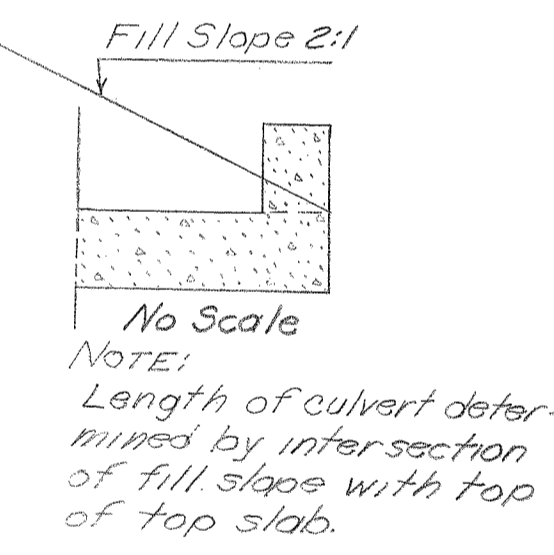
DOUBLE BOX CULVERT 10'x8'
 STA. 3129+40

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS

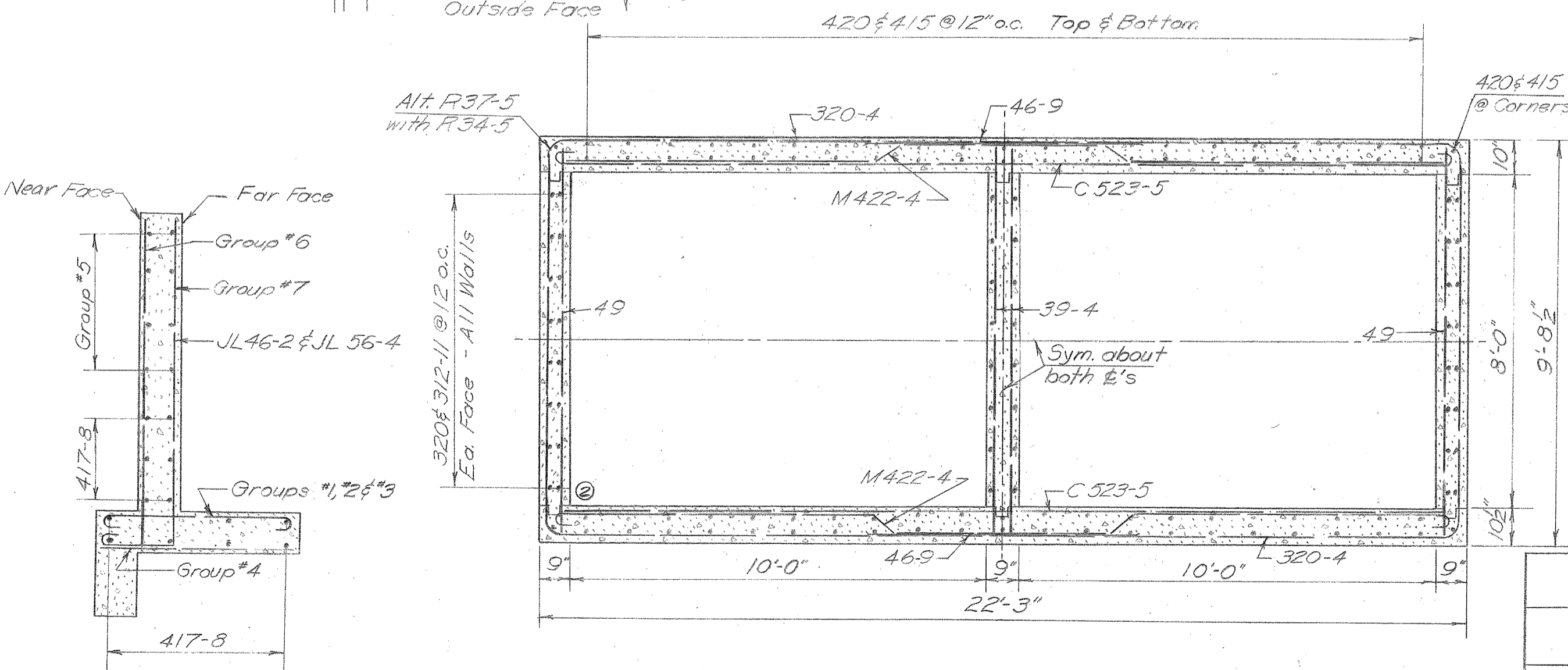
SCALE: 3/4" = 1'-0" except as noted
 CONTRACT NO. _____
 SHEET NO. D-18 OF 37



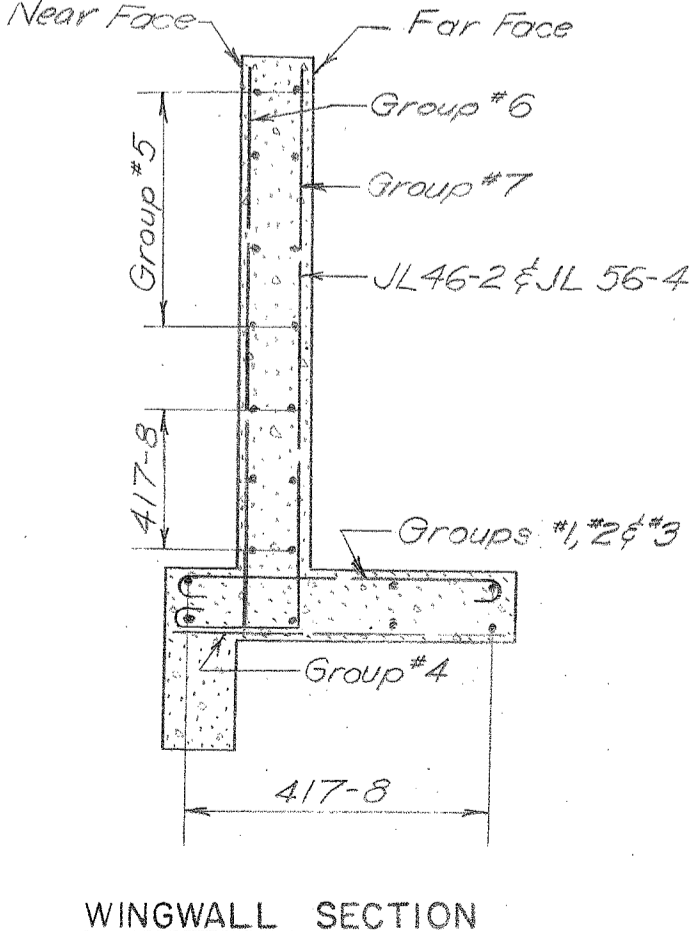
Note:
 1. The face of reinforcing bars shall be 2" from the face of the concrete.
 2. All bends to be with an 8-diameter radius unless otherwise shown.
 3. Bars 420, 415, 320 and 312-11 shall lap 40 diameters at splices. At construction joints first placed bars shall project 40 diameters beyond joint.



LONGITUDINAL SECTION



TRANSVERSE SECTION



WINGWALL SECTION

MADE	BY	DATE	REVISION	BY	DATE
	HBH	2-9-54	3	As Built	HBH 4-29-56
			2	Deleted Haunch	HBH 8-9-54
	PDS	2-10-54	1	Revised Design	ANK 1-20-54

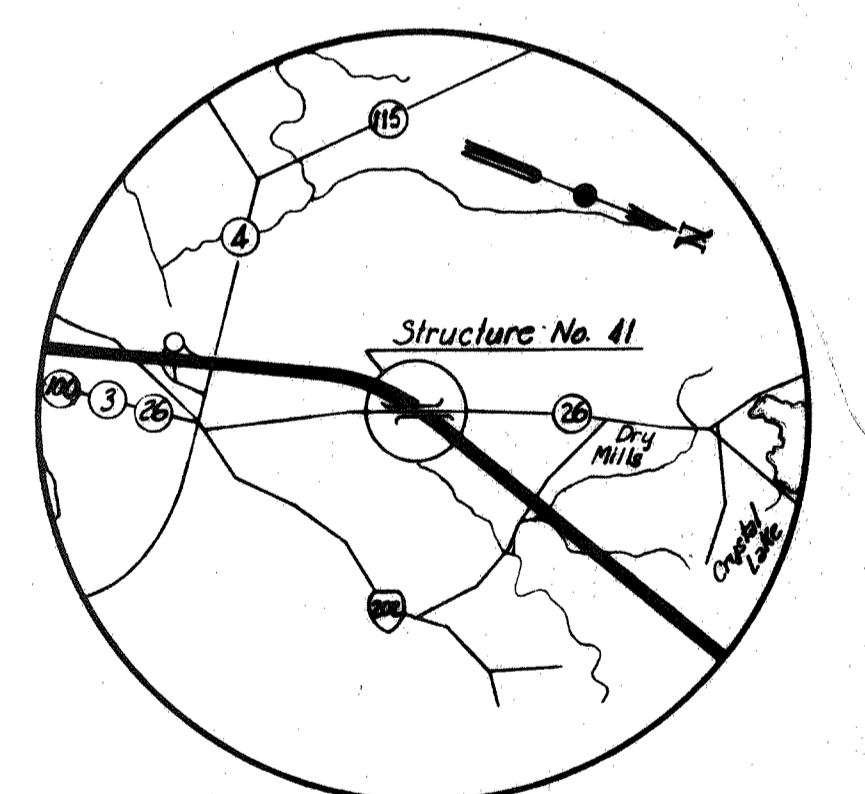
GENERAL NOTES

Design Specifications: AASHTO with minor modifications.
 Design Live Load: H-20
 Maximum Pile Load on Abutment 2: 32 Tons.
 Maximum Pile Load on Abutment 1: 28 Tons.
 Maximum Pile Load on Pier 1: 40 Tons.
 Maximum Pile Load on Pier 2: 36 Tons.
 Maximum Pile Load on Pier 3: 39 Tons.

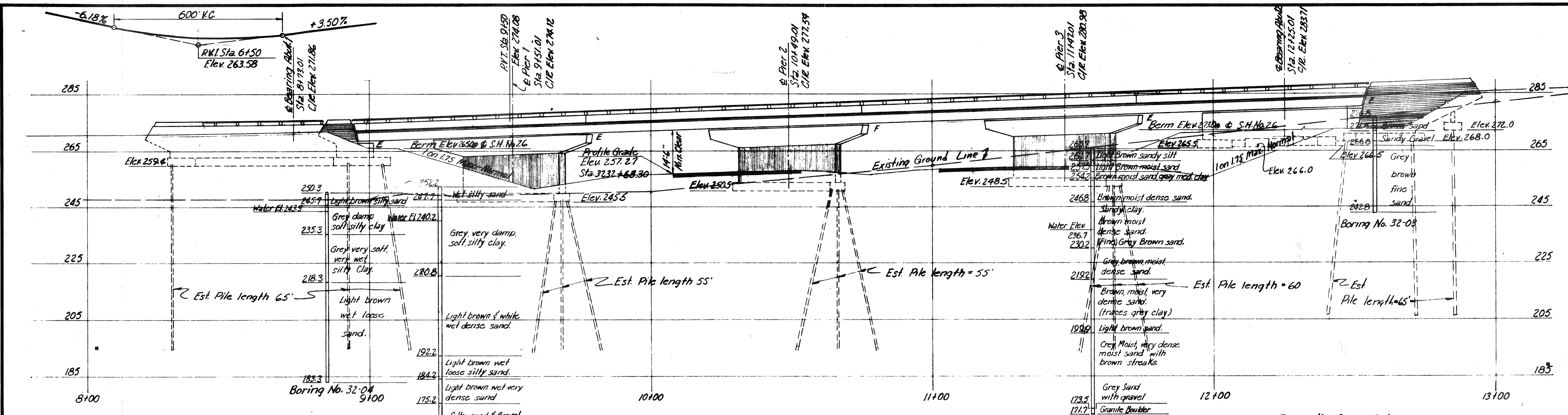
REFERENCES

Drawing Number	Title	Substructure Contractor	Superstructure		
			Steel Fabricator	Steel Erector	Floor Contractor
SD1A	Standard Abut Details	✓	✓	✓	✓
SD2	Standard Pier Details	✓			
SD3	Abut. Drainage Details	✓			
SD4	Cast-in-Place Conc. Piles	✓			
SD5	Standard Handrail, Bearing Devices And Miscellaneous Details	✓	✓	✓	✓
SD6	Std. Diaphragm Details		✓	✓	✓
SD10	Std. Type "A" Splices For 36 W Beams		✓	✓	
SD12A	Type "Z" Expansion Joint	✓	✓	✓	✓
SD21	Bridge Floor Drain Details		✓	✓	✓
SD23	Standard Utility Details	✓			✓

Note: Provide 1-3" conduit in the East superstructure parapet wall and Abutment wingwalls as shown on Standard Drawing No. 23.

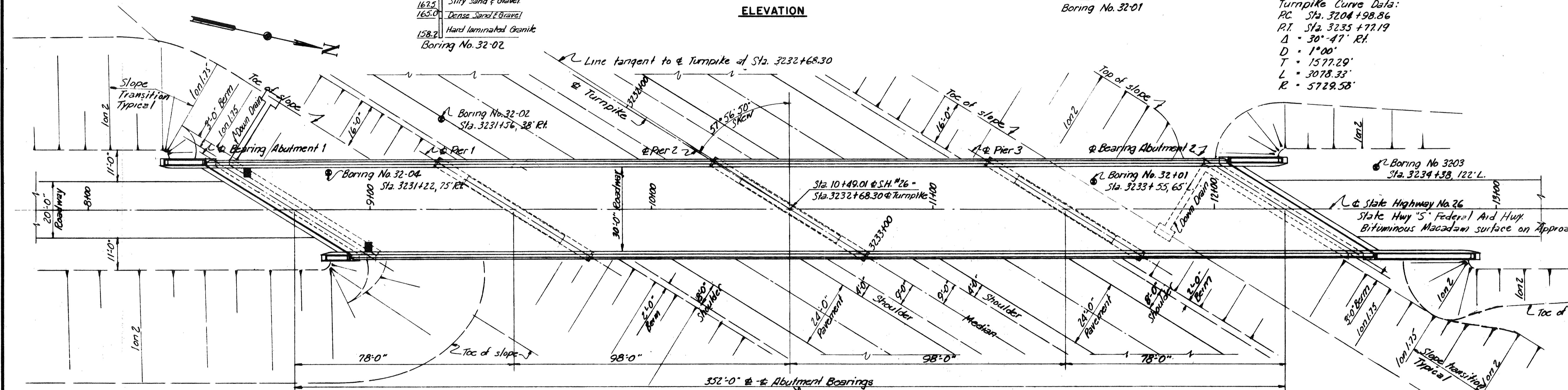


VICINITY MAP
Scale: 1"=1 mile

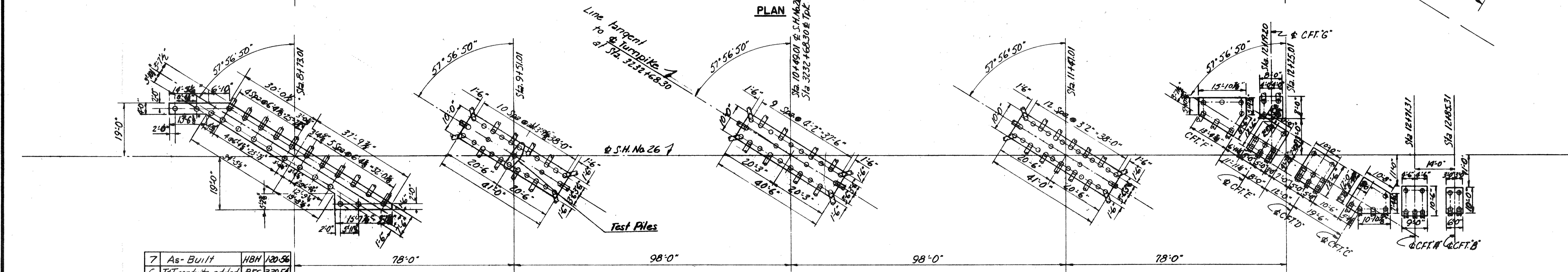


ELEVATION

Turnpike Curve Data:
 PC Sta. 3204+98.86
 PT Sta. 3235+72.19
 Δ = 30°-47' RT.
 D = 1°00'
 T = 1577.29'
 L = 3078.33'
 R = 5729.58'



PLAN



FOOTING PLAN

Note: All Piles: Cast in Place Concrete Piles
 Batter Piles 3" per ft. in direction shown

DRAWING NO.	BY	DATE	NO.	REVISION	BY	DATE
41.01.06	AER	11-12-53	7	As-Built	HBH	120-56
			6	1 1/2" conduits added	RFS	93054
			5	Revised Drain Grade	HJG	3-22-54
			4	Revised Footing dimensions, Abutment 1	HCN	3-18-54
			3	Test Piles	TRR	3-9-54
			2	Added piles	HER	2-23-54
			1	References	WCM	1-18-54

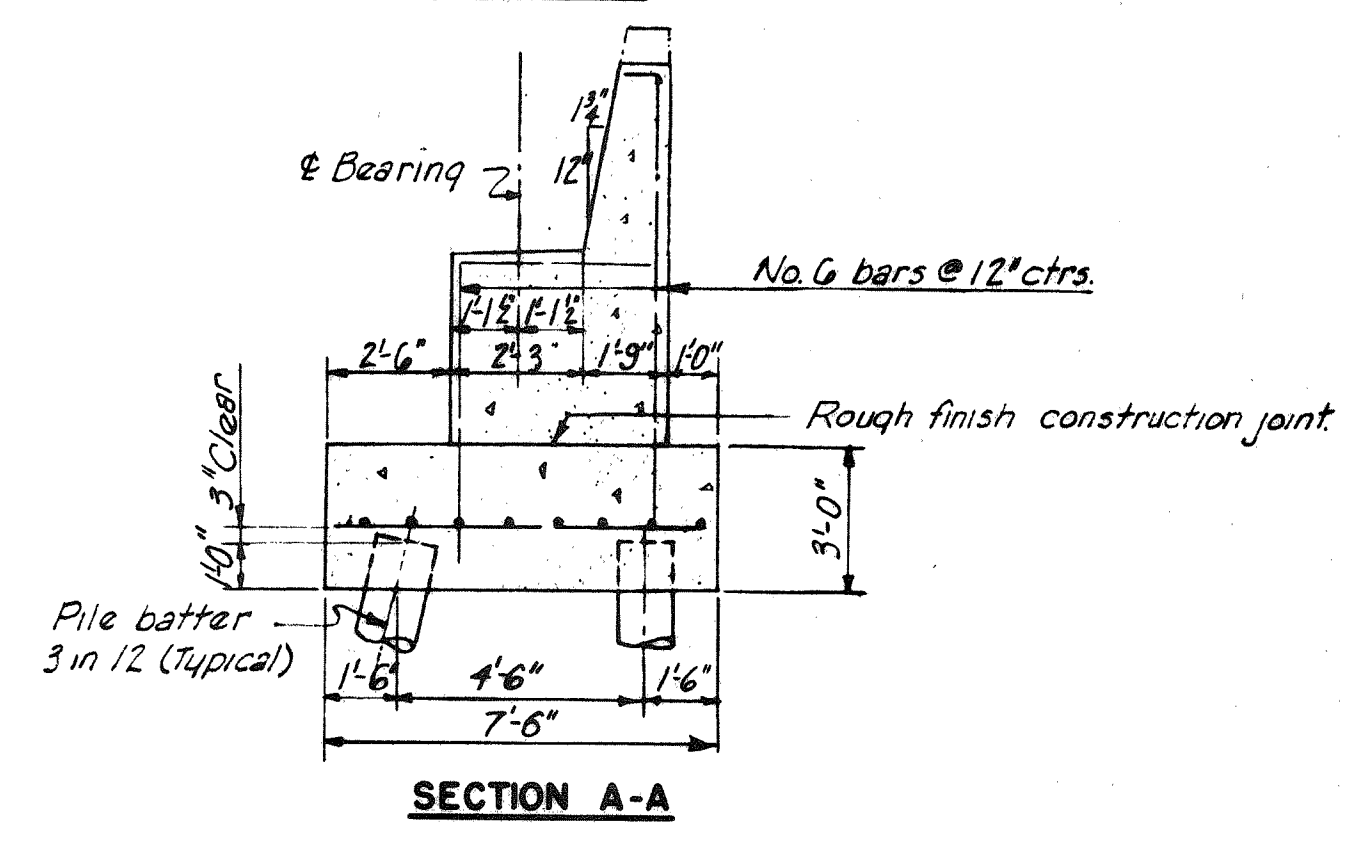
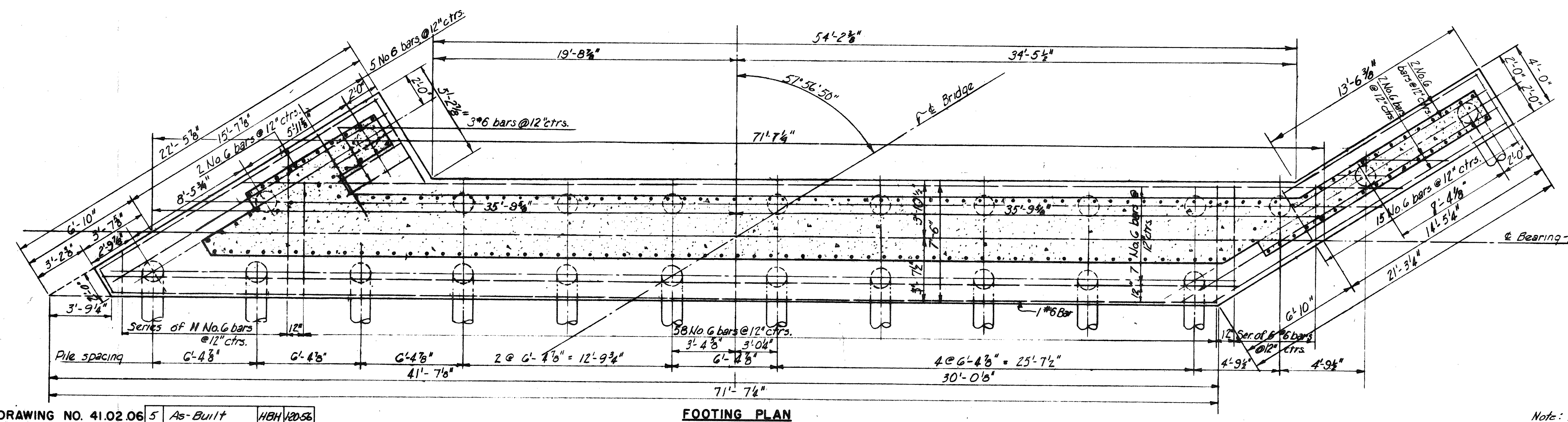
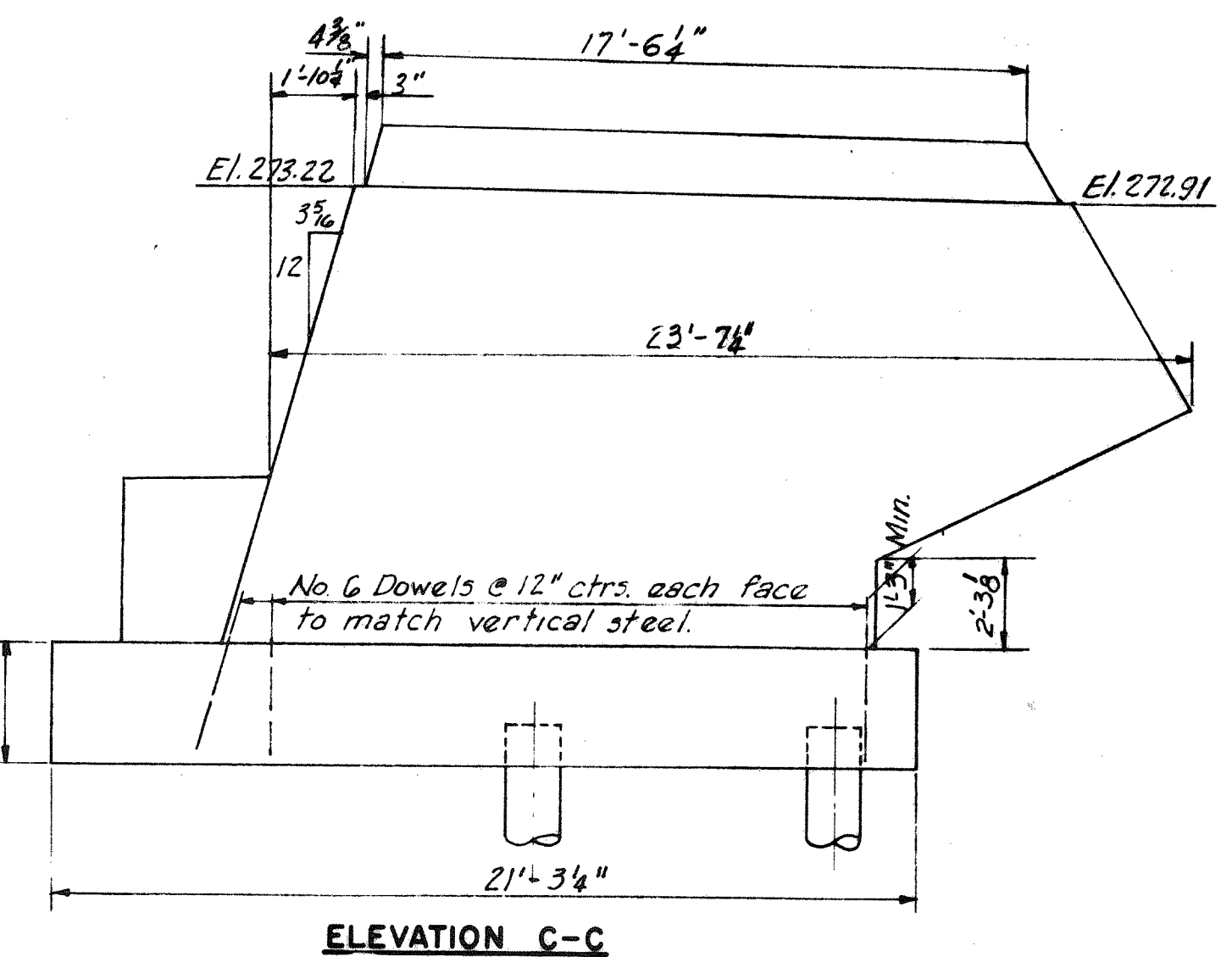
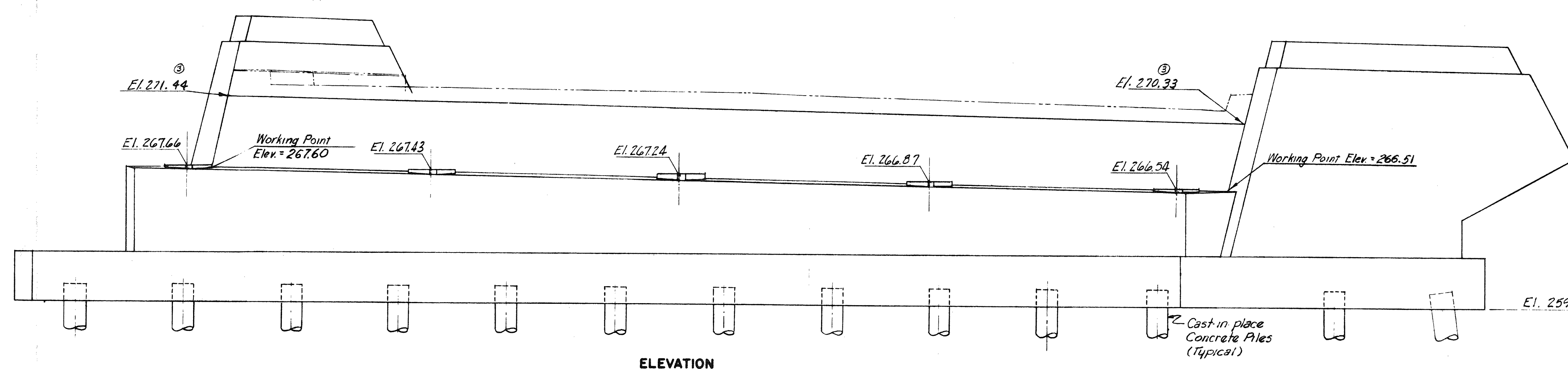
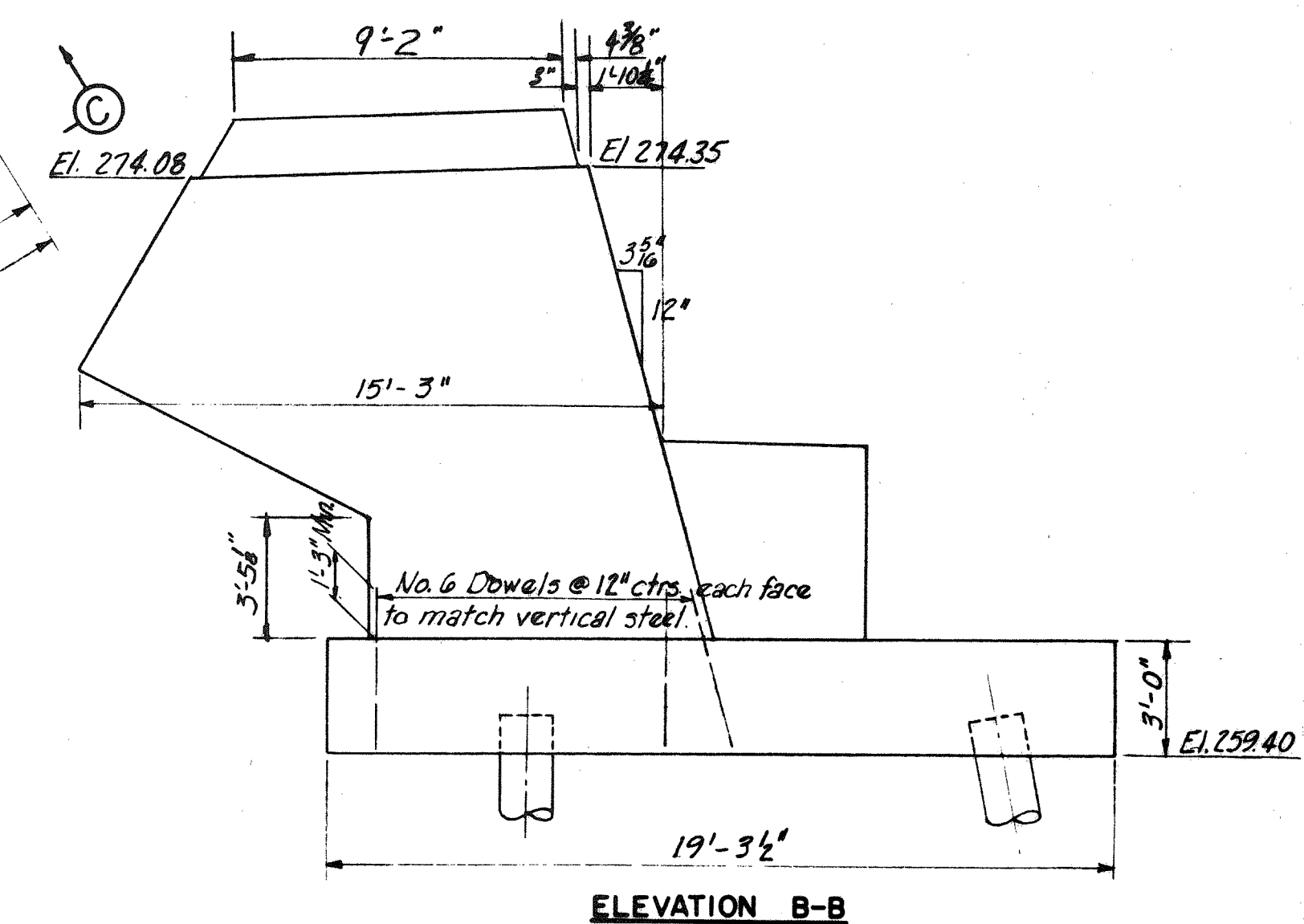
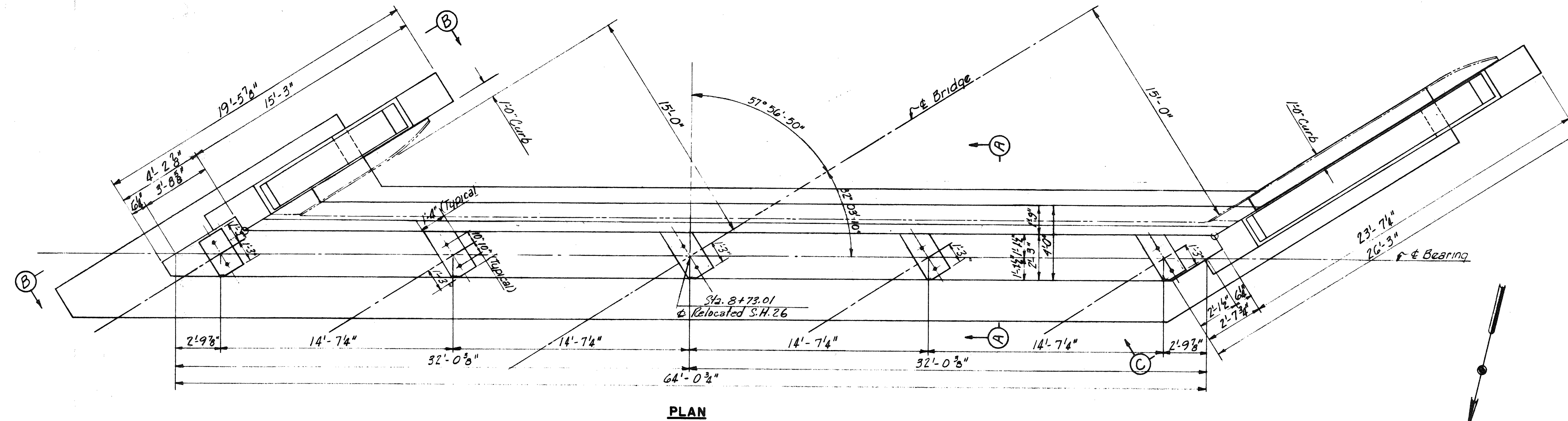
MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
 SECTION 2— PORTLAND TO AUGUSTA

STRUCTURE NO. 41 TURNPIKE UNDER
 RELOCATED STATE HIGHWAY ROUTE 26
 STA. 3232 + 68.30

GENERAL PLAN AND ELEVATION

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 NEW YORK KANSAS CITY

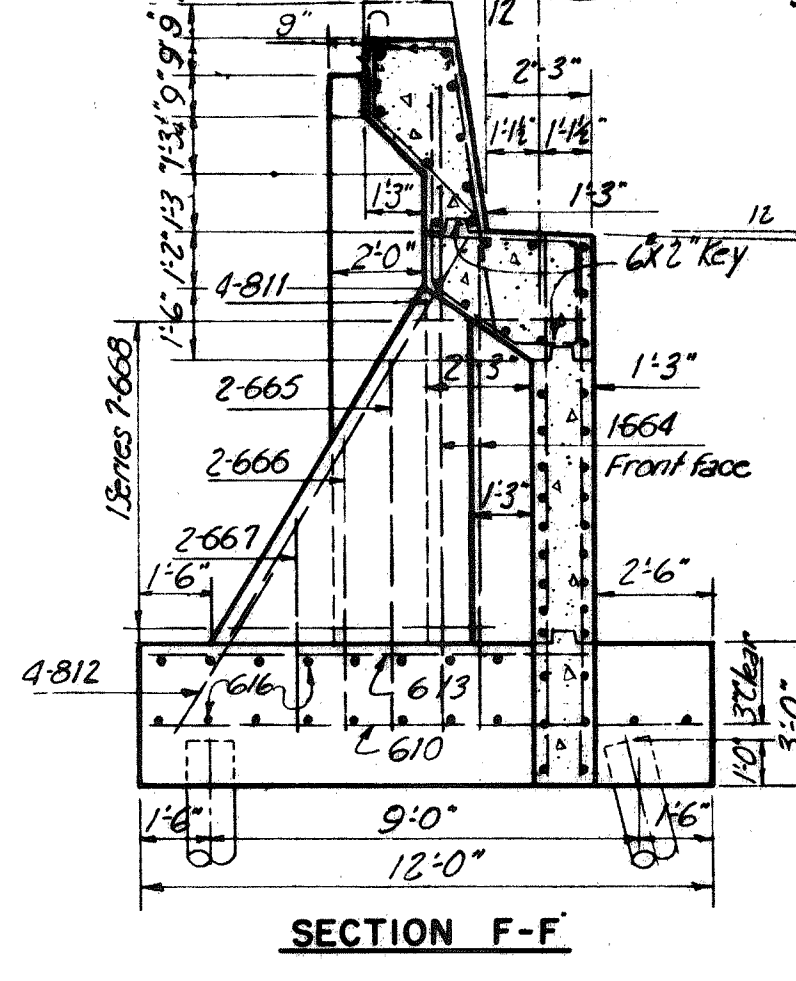
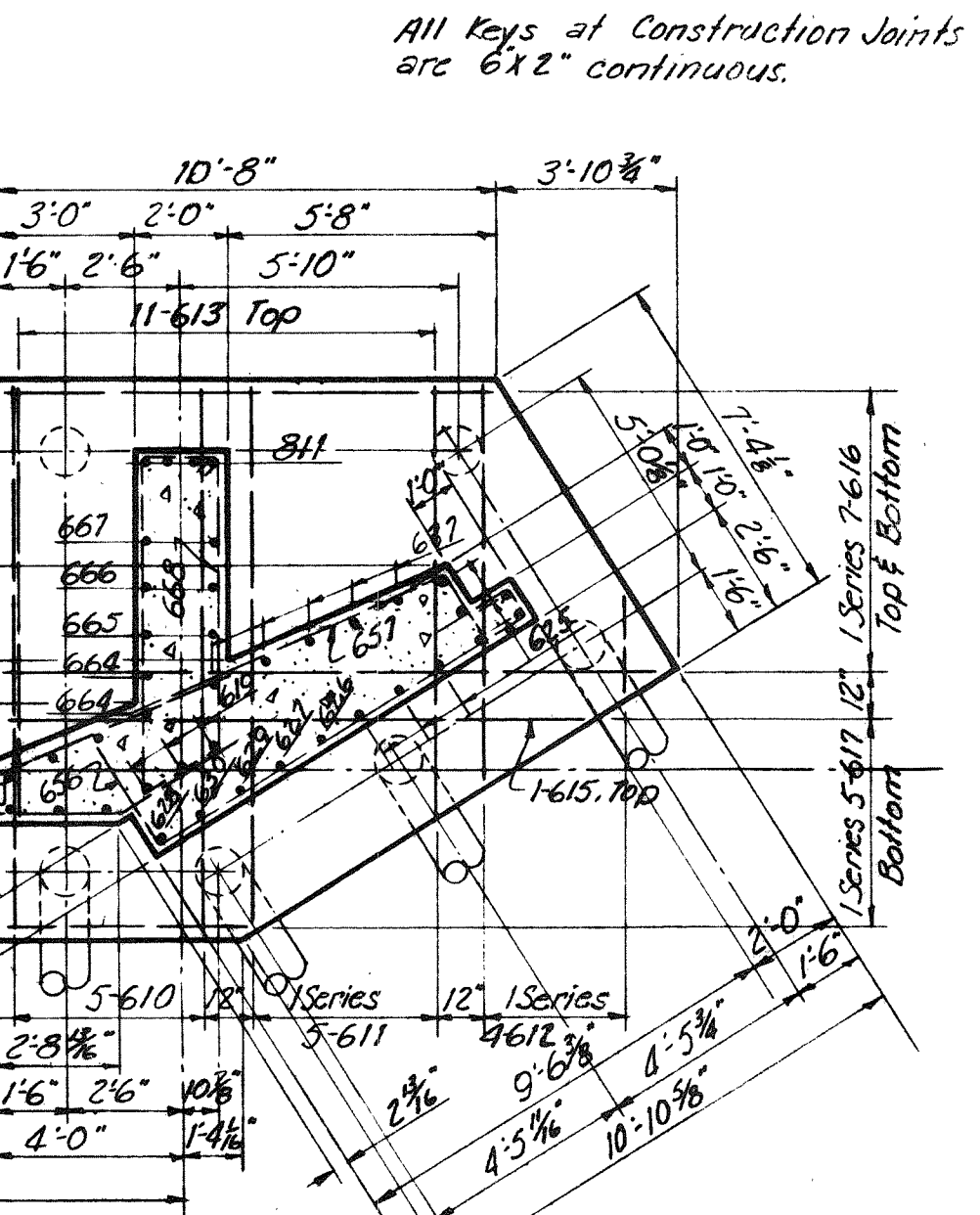
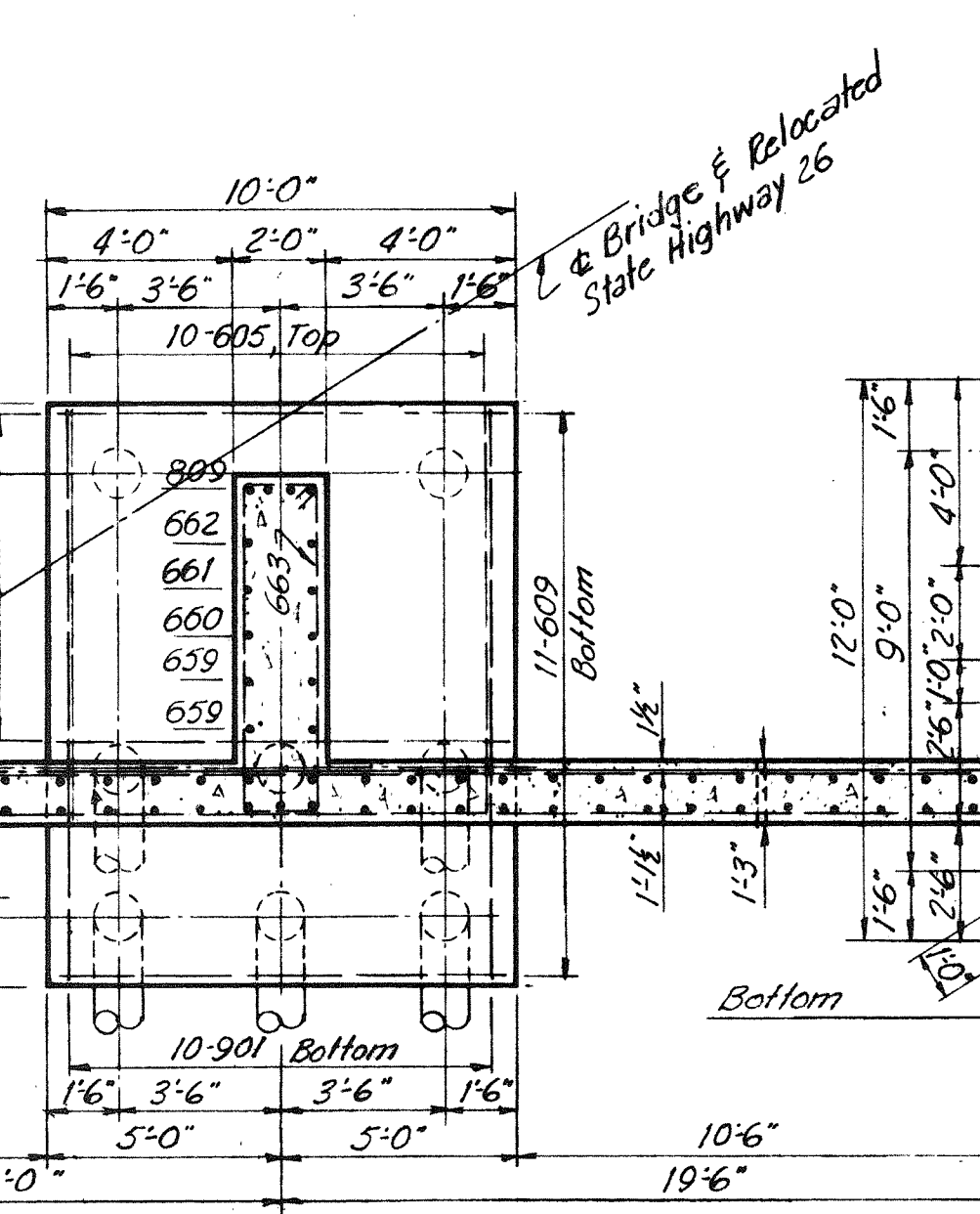
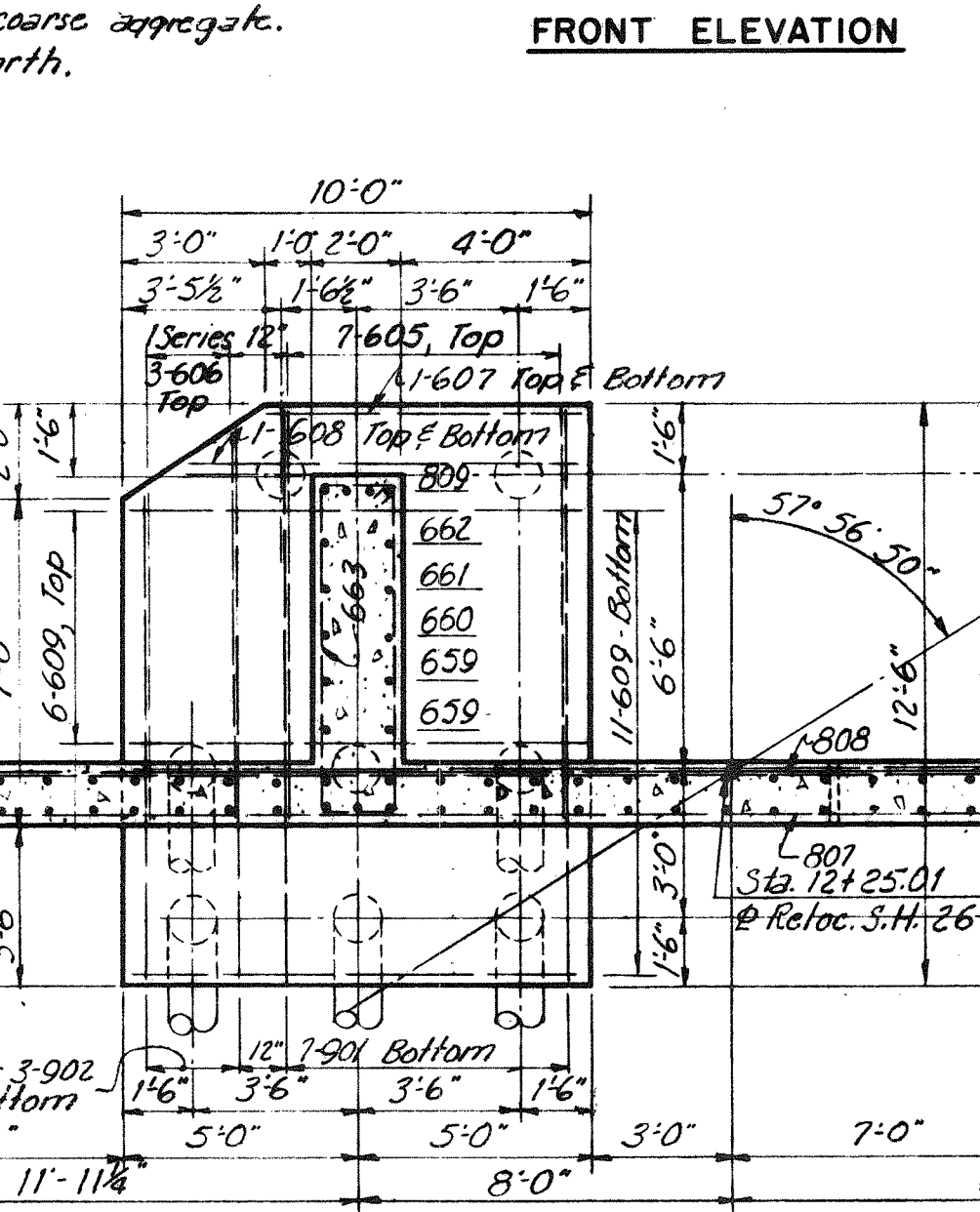
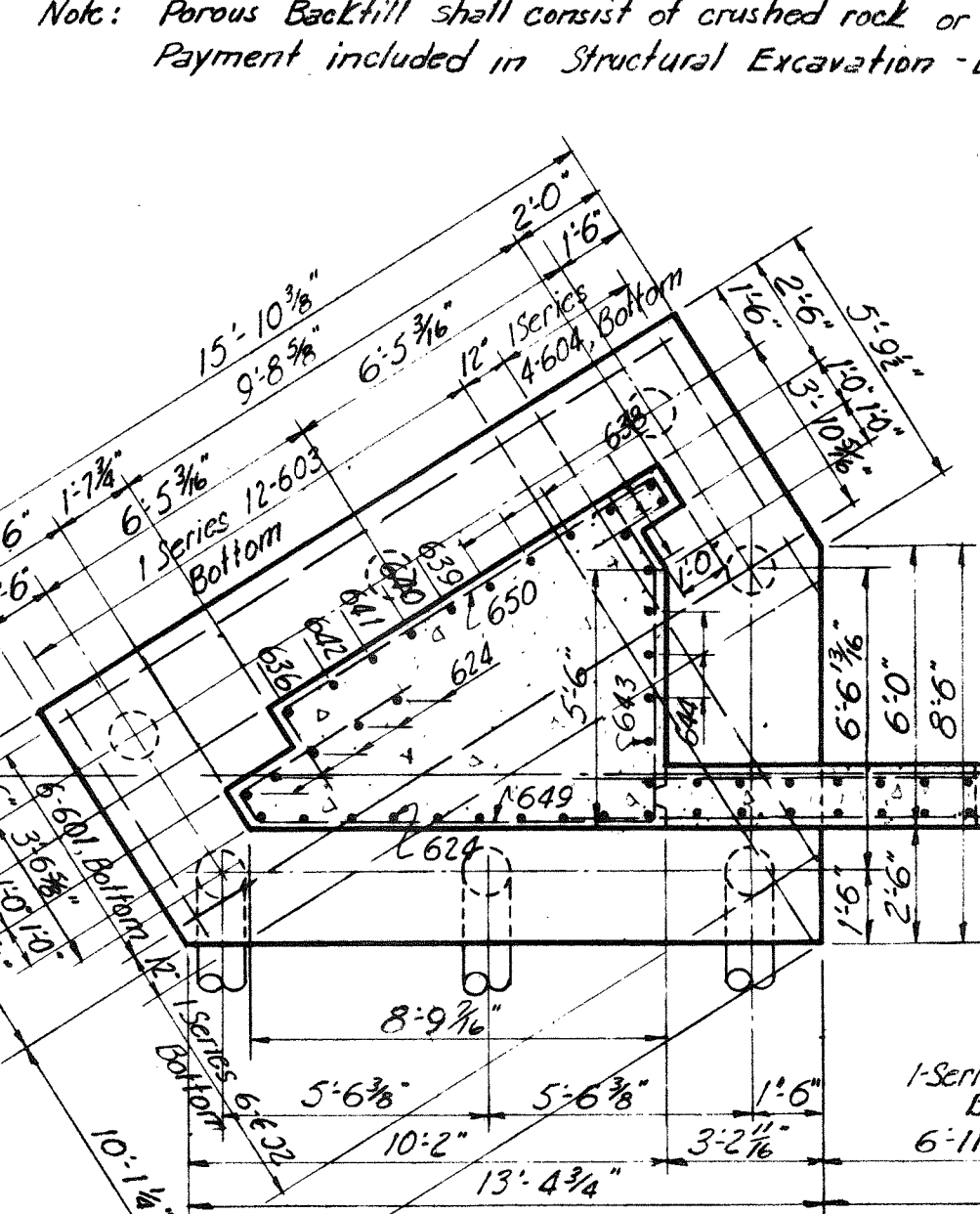
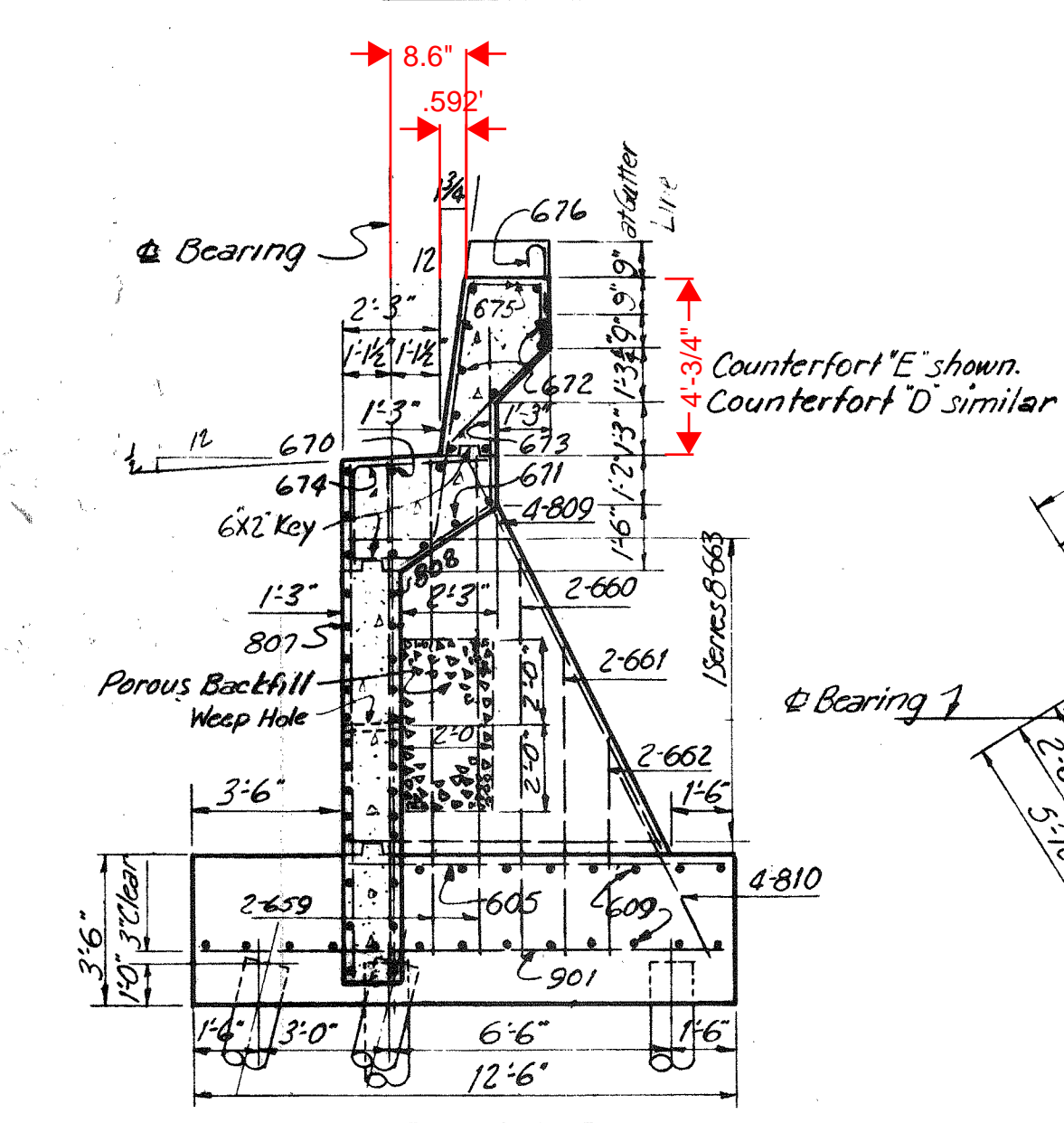
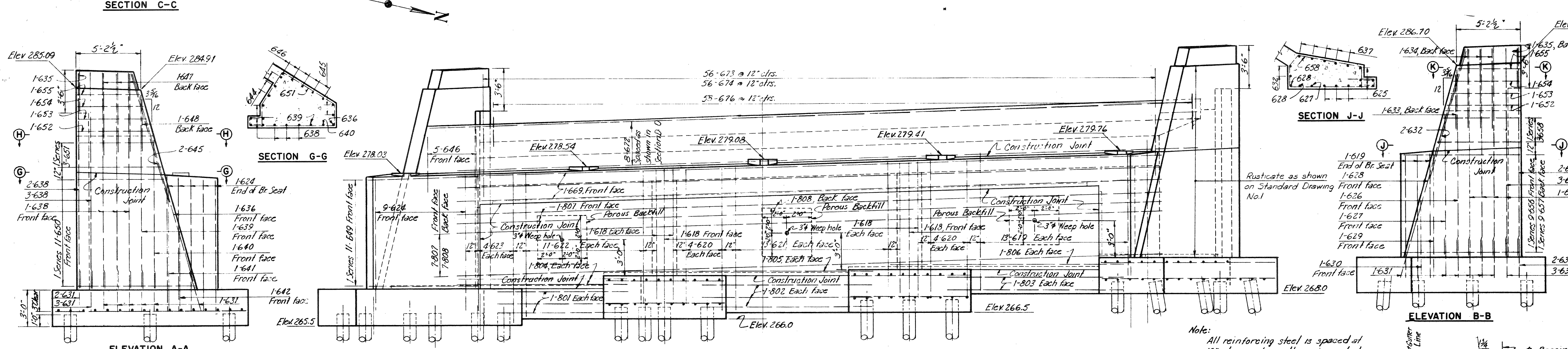
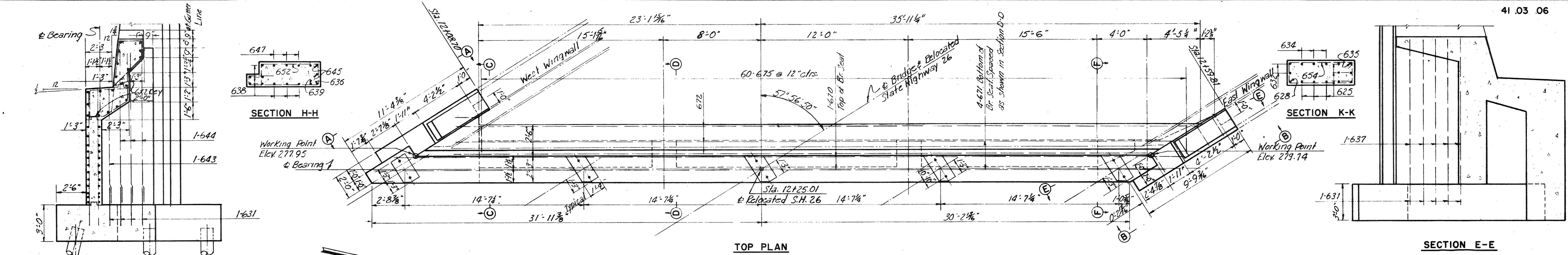
SCALE: 1"=20'
 CONTRACT NO. _____
 SHEET NO. 180 OF 388



DRAWING NO. 41.02.06		5	As-Built	HBN 12/05
BY	DATE	4	Corr. Dim.	CVA 4-22-58
MADE	F.S. Jr. 10-30-53	3	Backwall Elevations	WCM 8-20-54
TRACED		2	RT Conditions added	RFS 3-20-54
CHECKED	DHL 12-17-53	1	Redrawn, except Wingwall	MCH 3-17-54
IN CHARGE OF		No.	REVISION	BY DATE

Note: Provide 1-3" conduit in the East wingwall as shown on Standard Drawing No. 23.

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
 SECTION 2— PORTLAND TO AUGUSTA
 STRUCTURE NO. 41 TURNPIKE UNDER
 RELOCATED STATE HIGHWAY ROUTE 26
 STA. 3232 + 68.30
 ABUTMENT NO. 1
 HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 NEW YORK KANSAS CITY
 SCALE: 1/4" = 1'-0"
 CONTRACT NO. _____
 SHEET NO. 181 OF 322



BY	DATE	4. Added piles	AER 2-26-34
MADE	AER 11-23-33	3. Weep holes	WCM 1-27-34
TRACED		2. Rustication	WCM 1-15-34
CHECKED	DHL 12-17-33	1. Bar Legend	WCM 1-8-34
IN CHARGE OF	I.D.S.K.	No. REVISION	BY DATE
		5	BAT 3-12-34

FOOTING PLAN

7 Cast-in-place concrete piles. Batter 3 piles 3° per ft. in direction shown.

8 Cast-in-place concrete piles. Batter 5 piles 3° per ft. in direction shown.

8 Cast-in-place concrete piles. Batter 5 piles 3° per ft. in direction shown.

6 Cast-in-place concrete piles. Batter 4 piles 3° per ft. in direction shown.

BAR LEGEND

1st Digit - Barsize
2nd Digit - Bar number
Example: 603 No.6 bar No.3

Note: Provide 1-3" conduit in the East wingwall as shown on Standard Drawing No. 23.

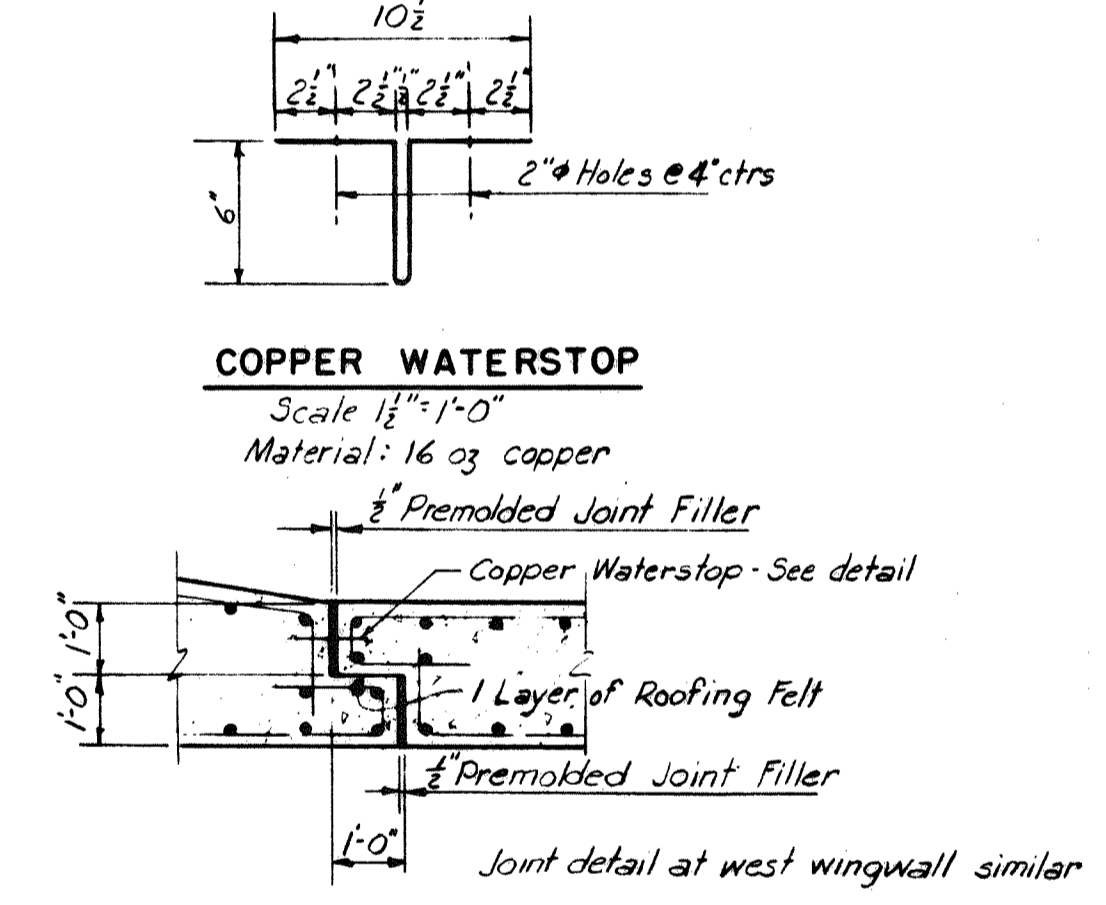
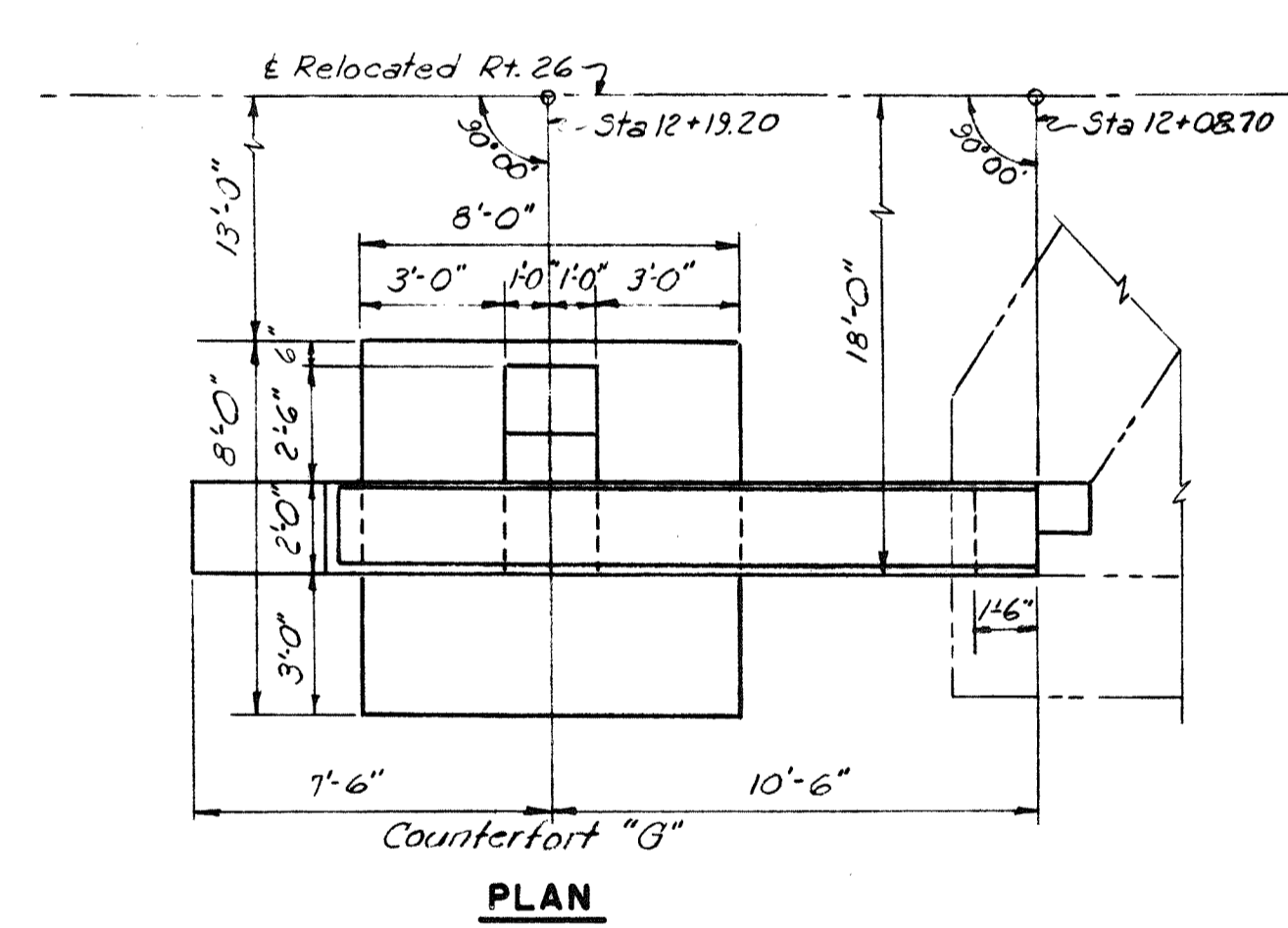
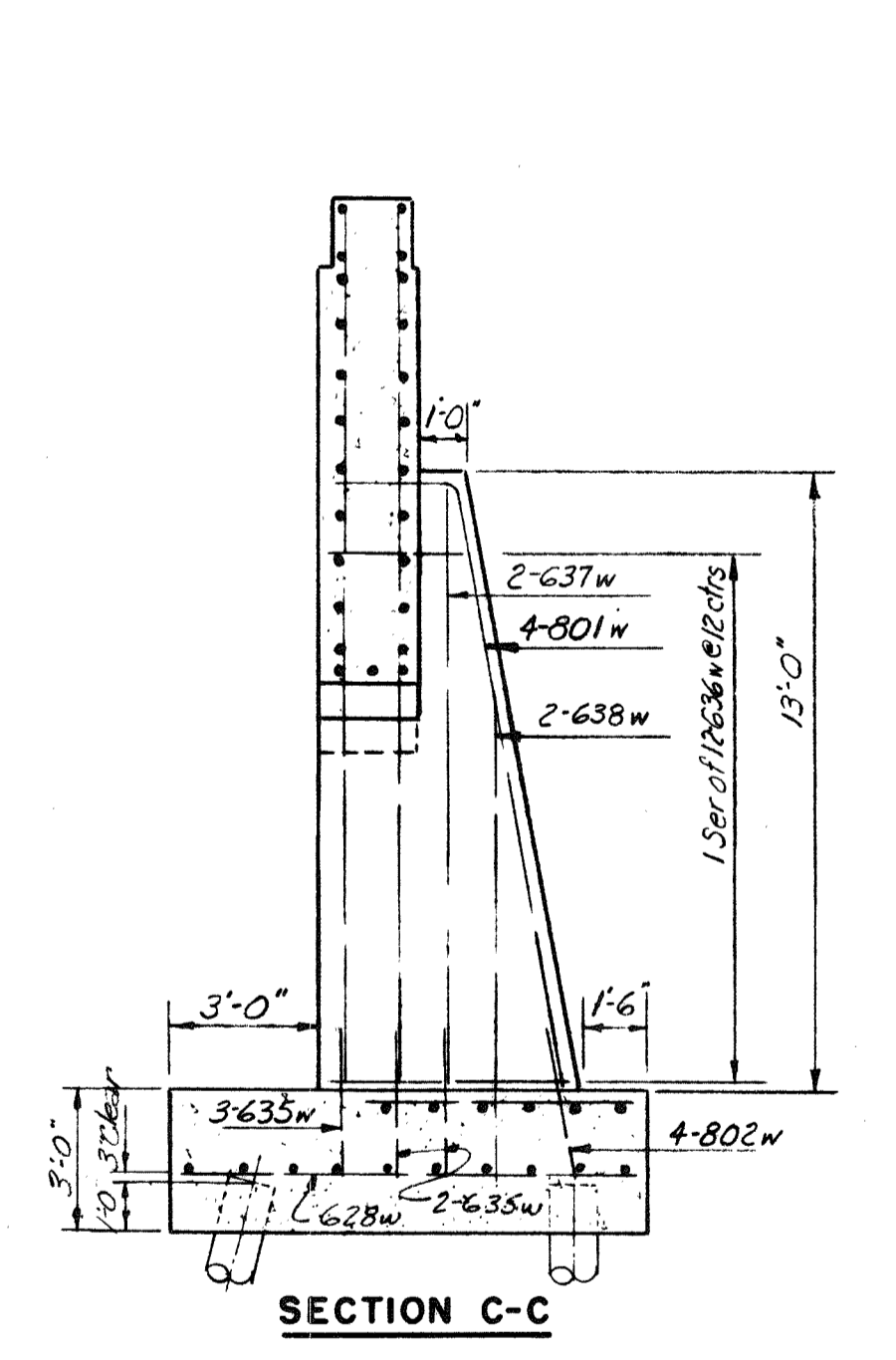
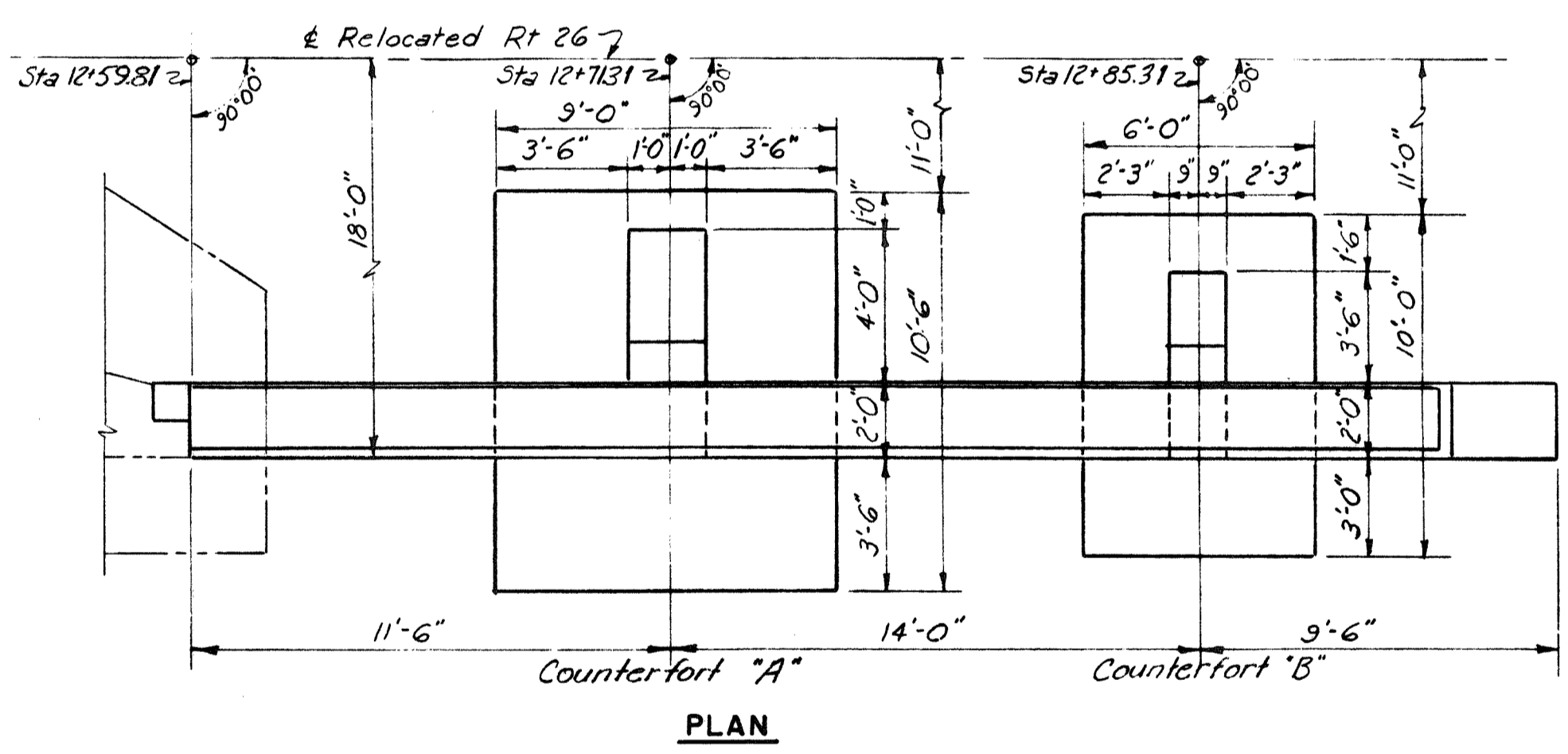
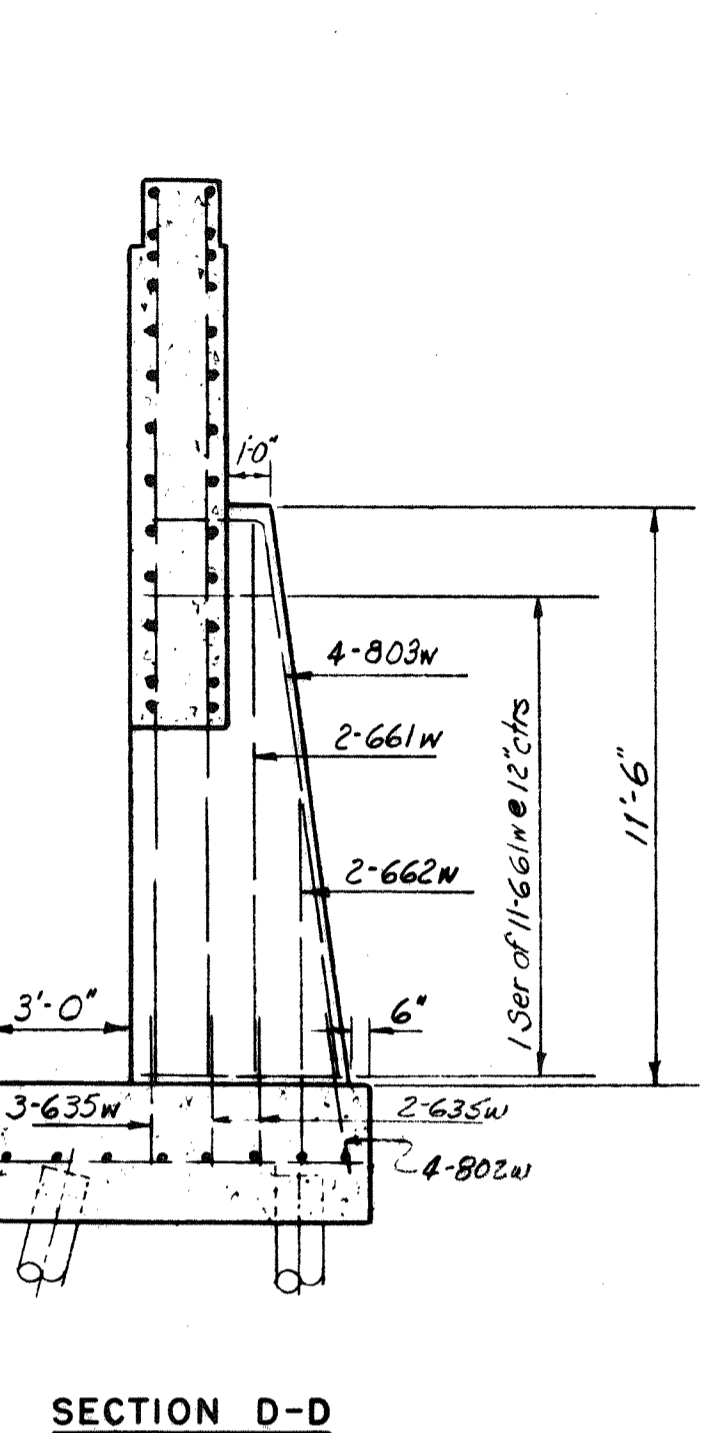
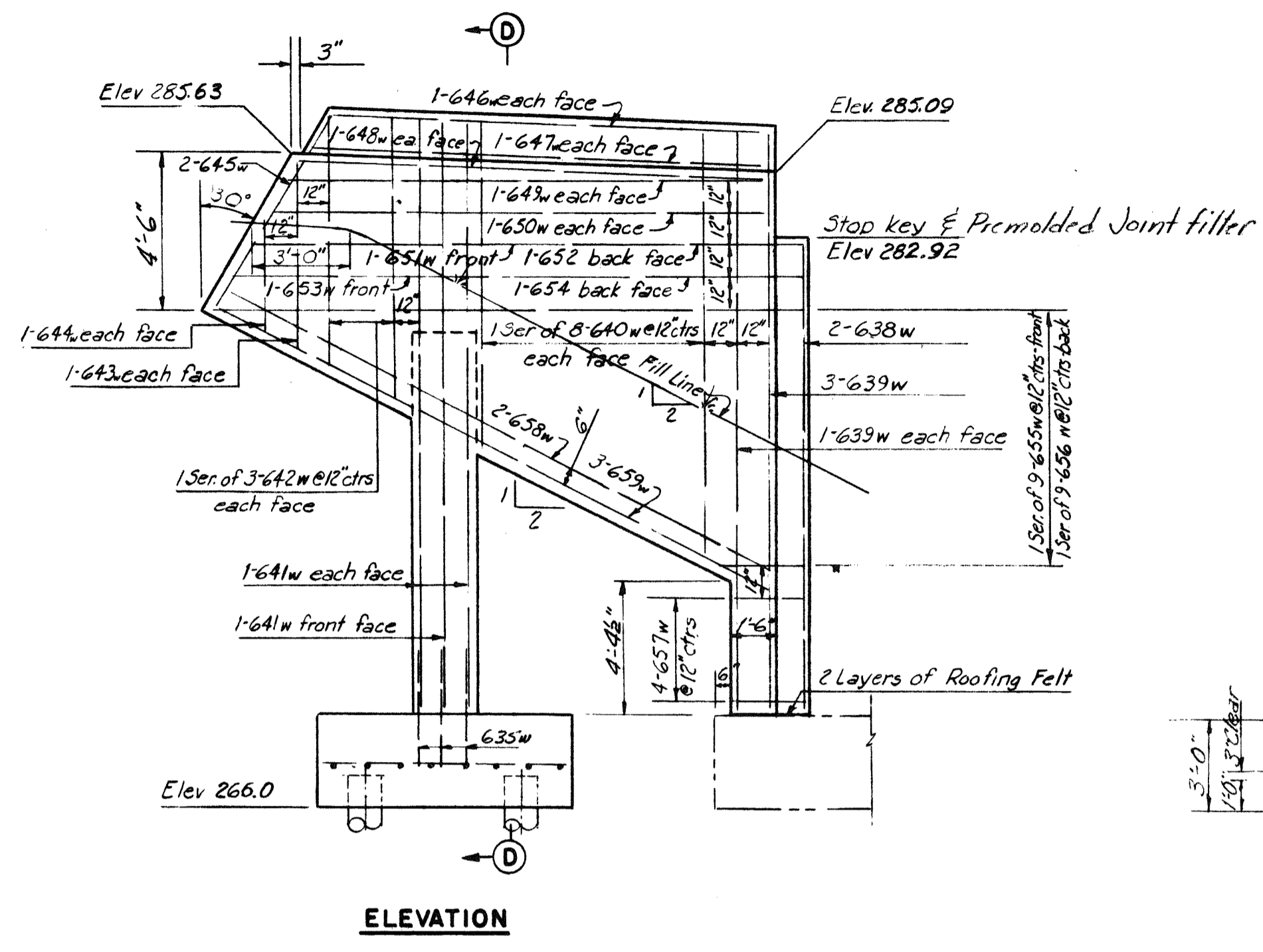
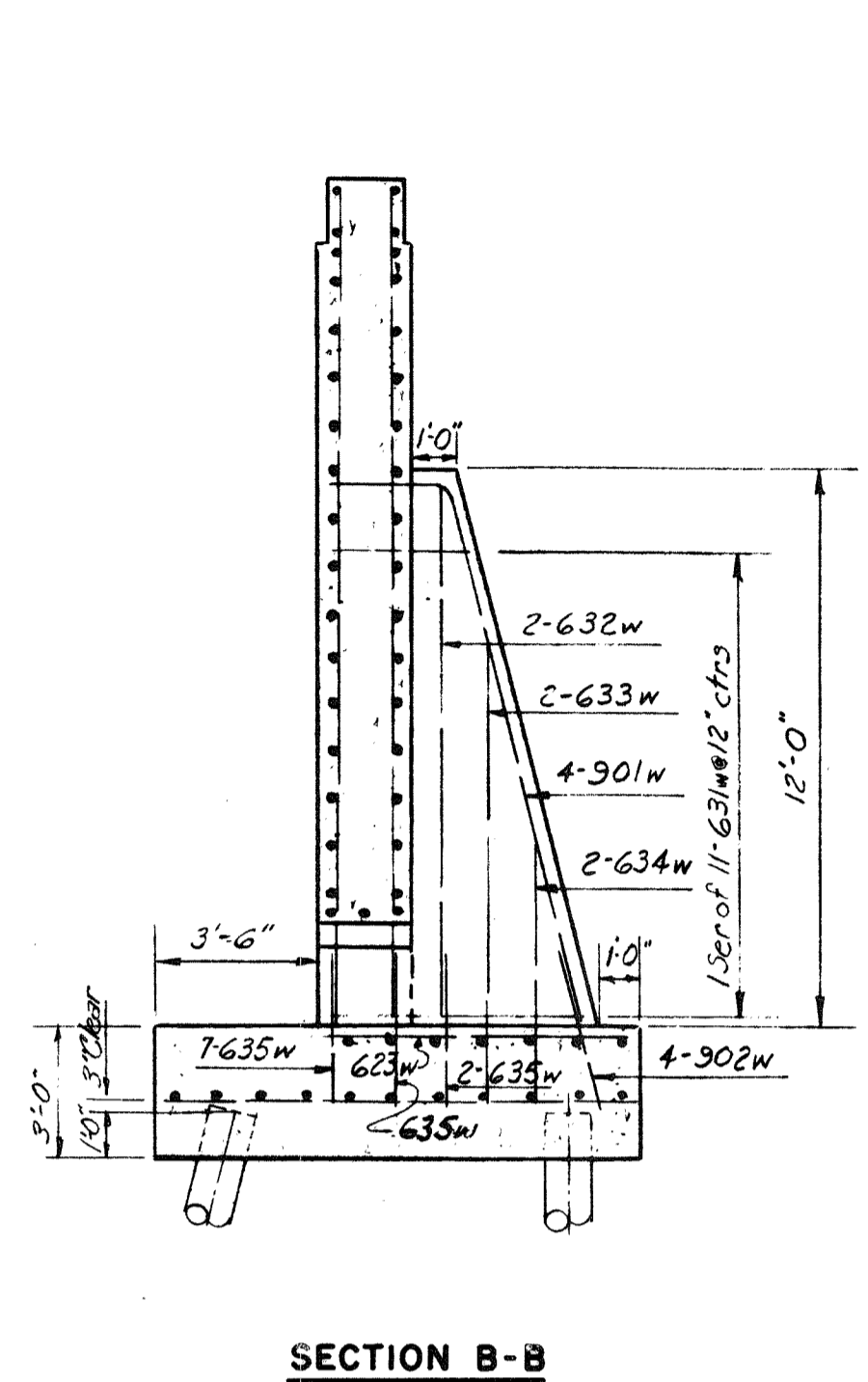
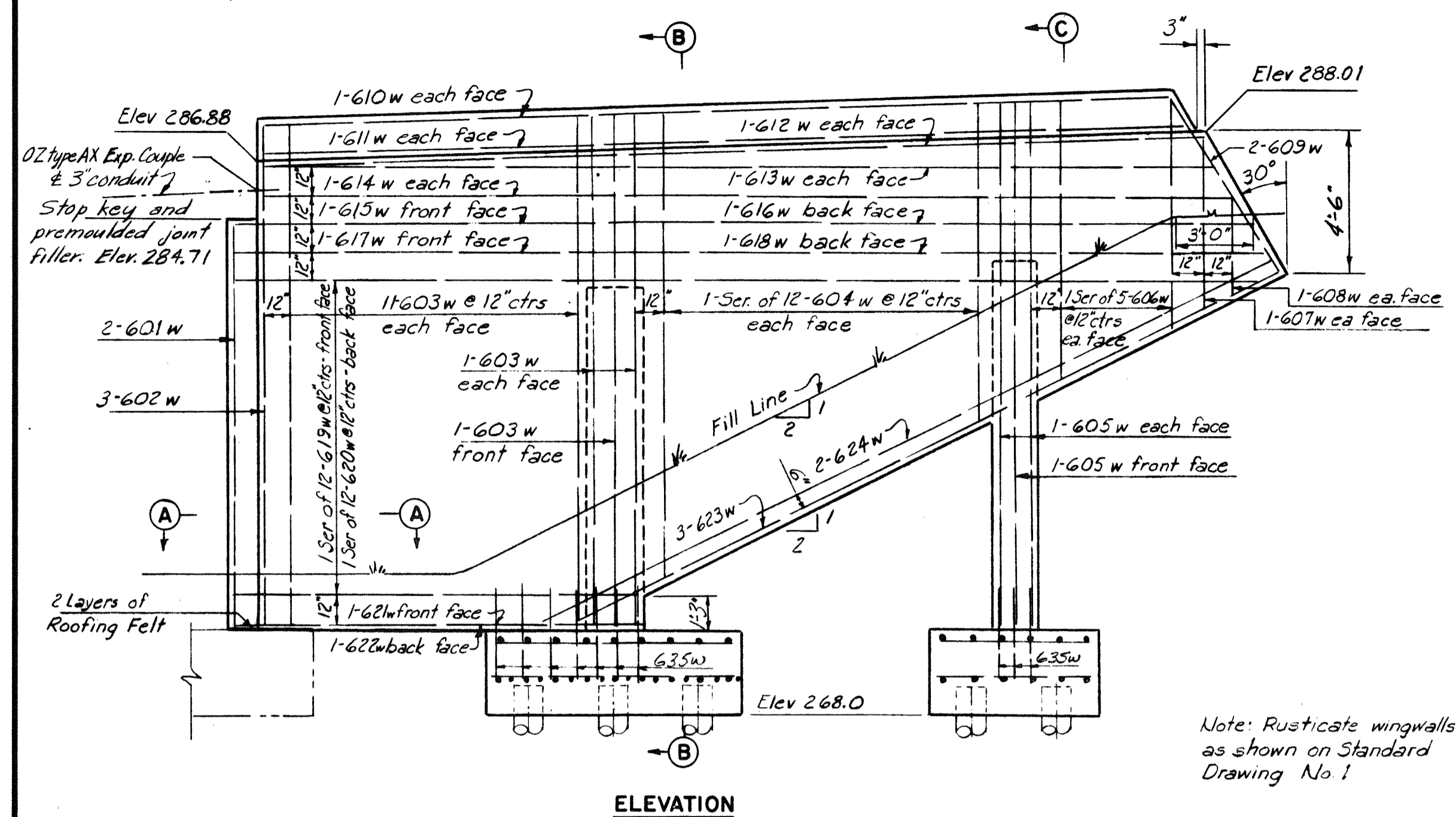
MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
SECTION 2- PORTLAND TO AUGUSTA

STRUCTURE NO. 41 TURNPIKE UNDER
RELOCATED STATE HIGHWAY ROUTE 26
 STA. 3232 + 68.30
ABUTMENT NO. 2

HOWARD, NEEDLES, TAMMEN & BERGENDORFF
 CONSULTING ENGINEERS

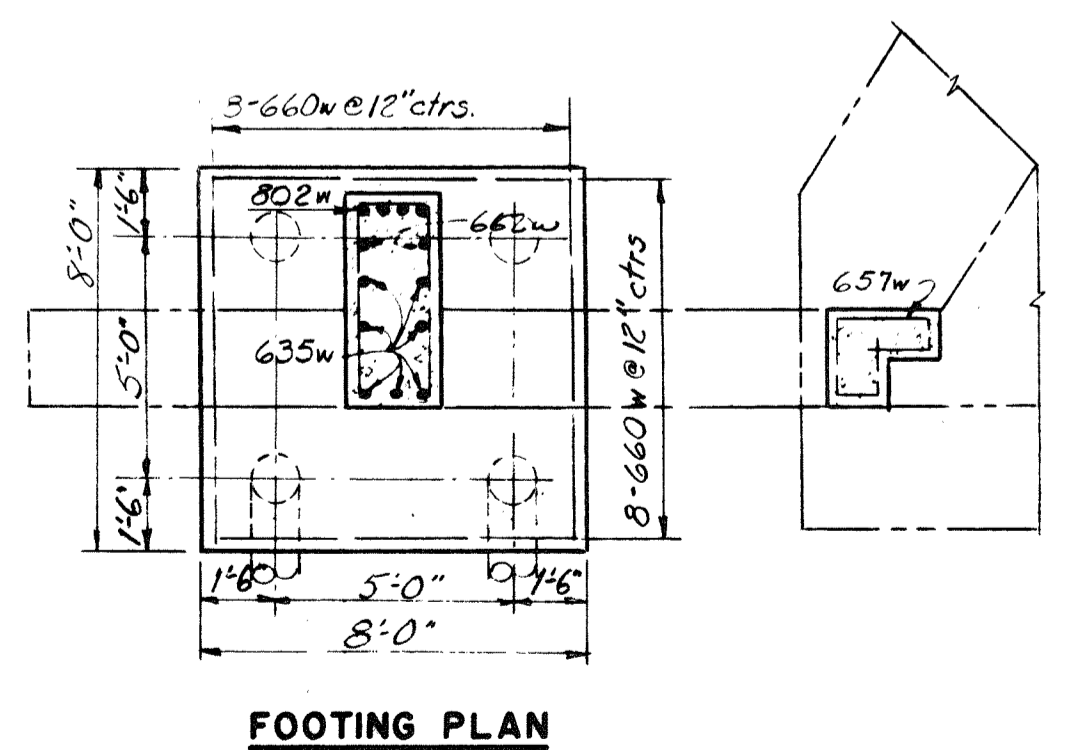
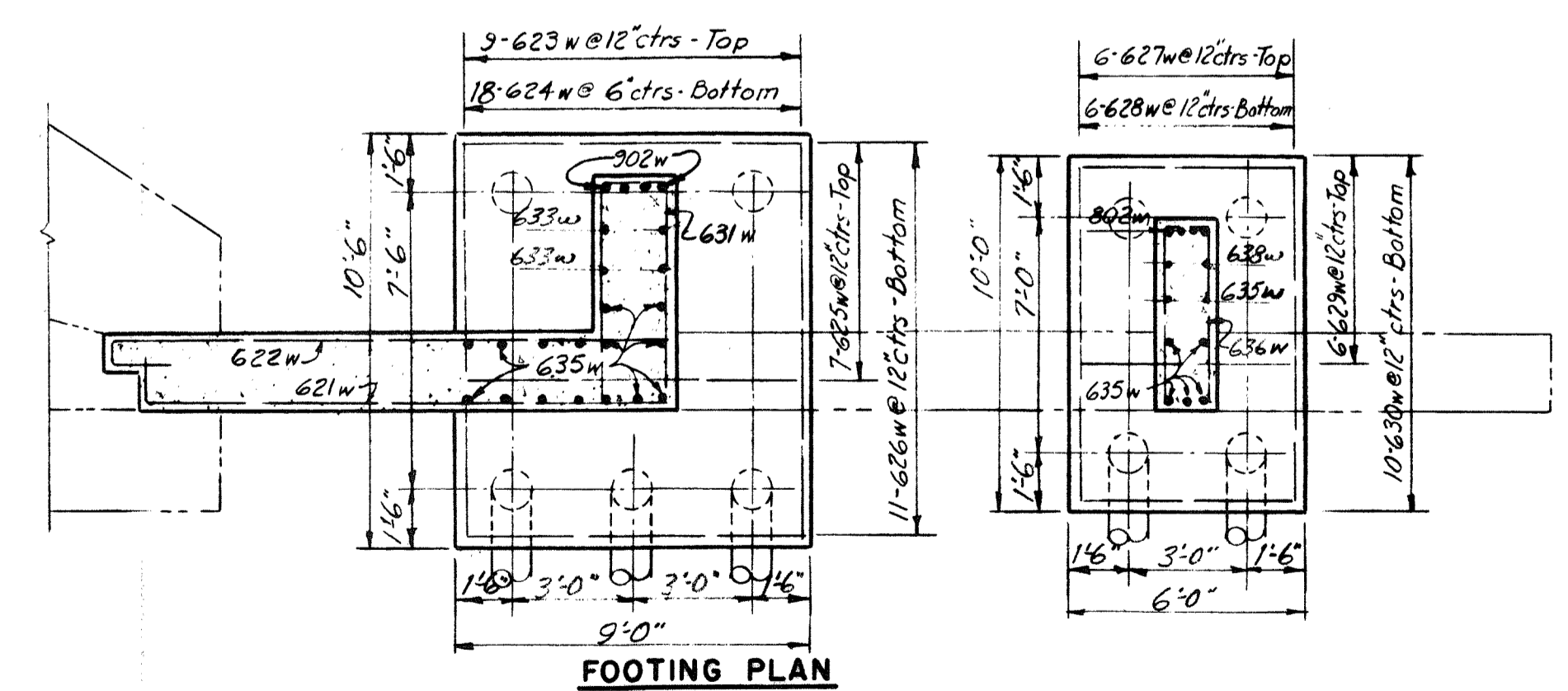
NEW YORK KANSAS CITY

SCALE: 1/4" = 1'-0"
 CONTRACT NO. _____
 SHEET NO. 182 OF 382



BAR LEGEND
1st Digit - Bar size
2nd & 3rd Digit - Bar number
w = Wingwalls
Example: 603w - #6 bar, Number 3 in wingwall

Note: All piles shall be cast-in-place concrete piles. Batter shall be 3" per ft. in direction shown. Provide 1-3" conduit in the East wingwall as shown on Standard Drawing No. 23.

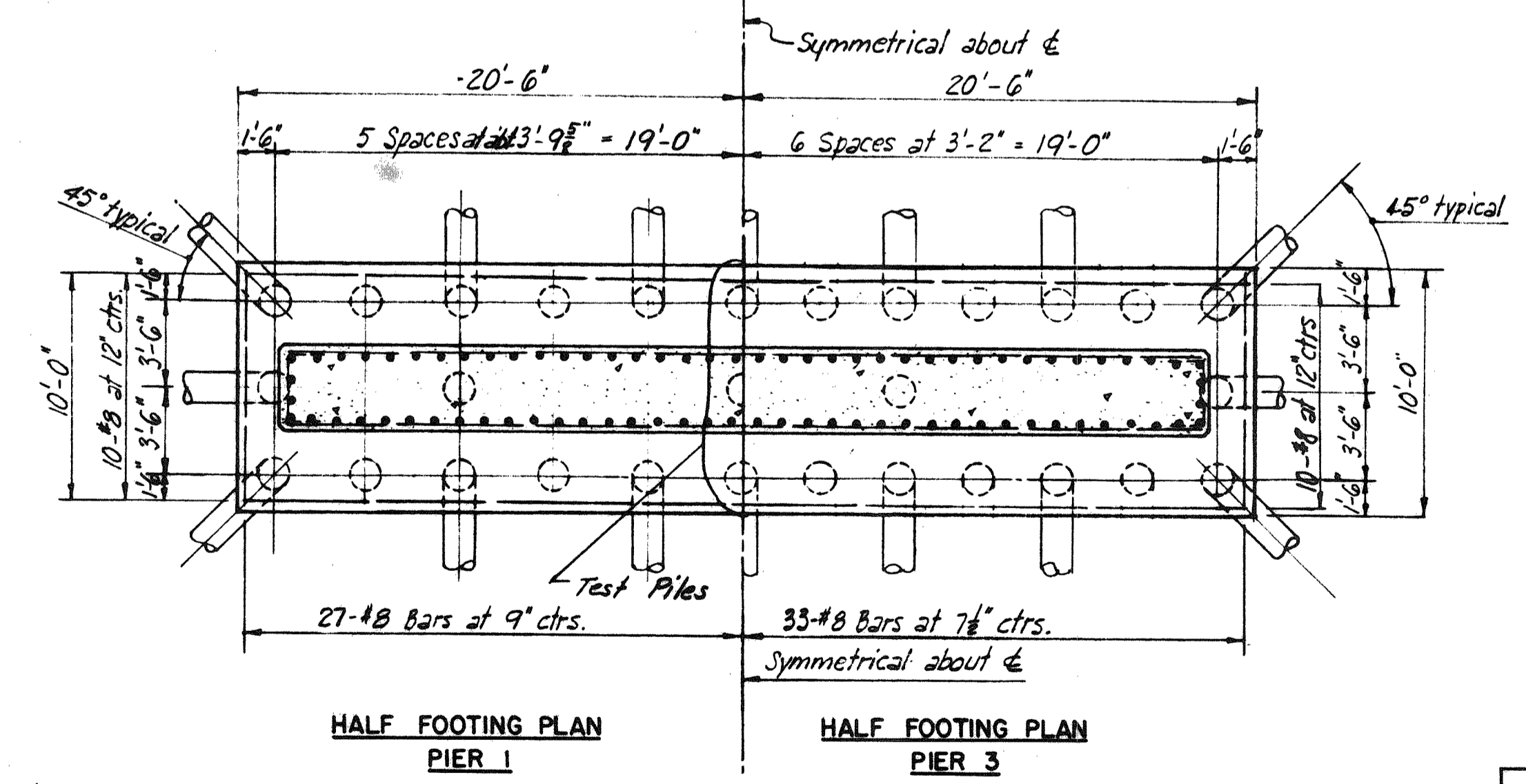
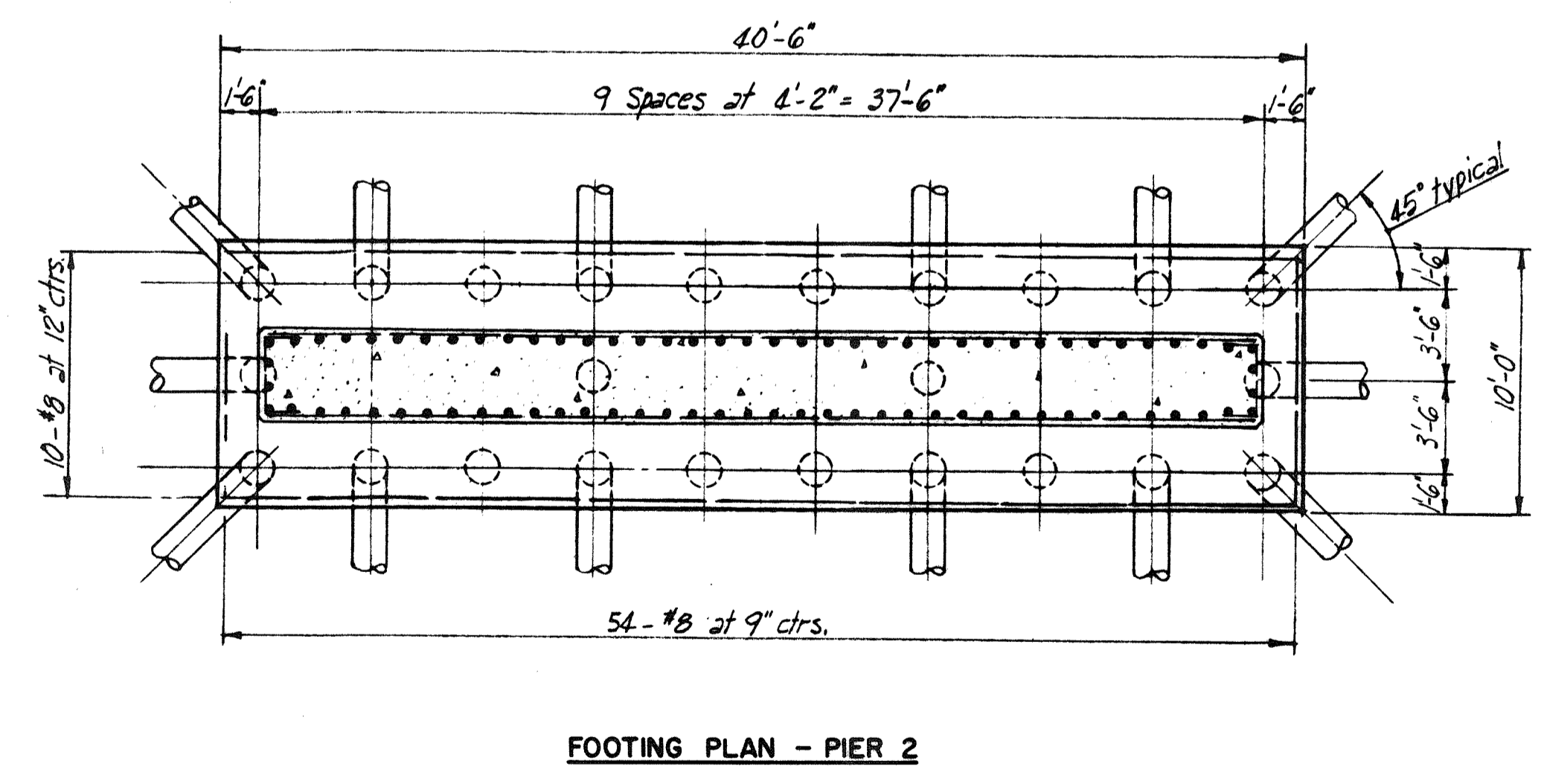
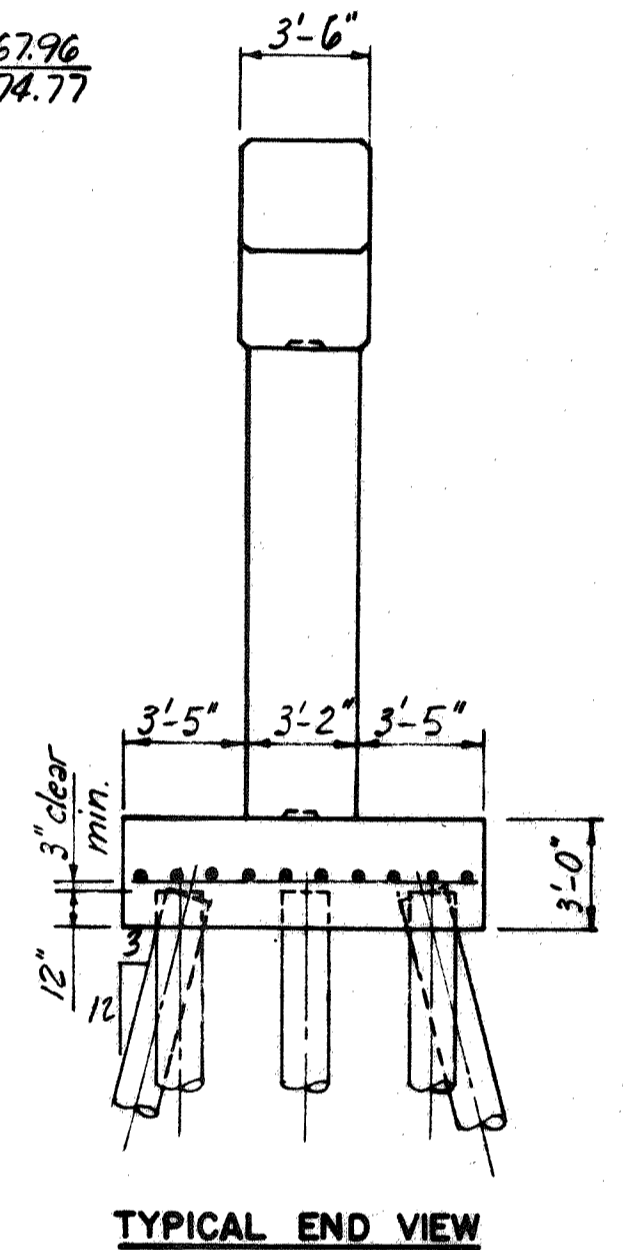
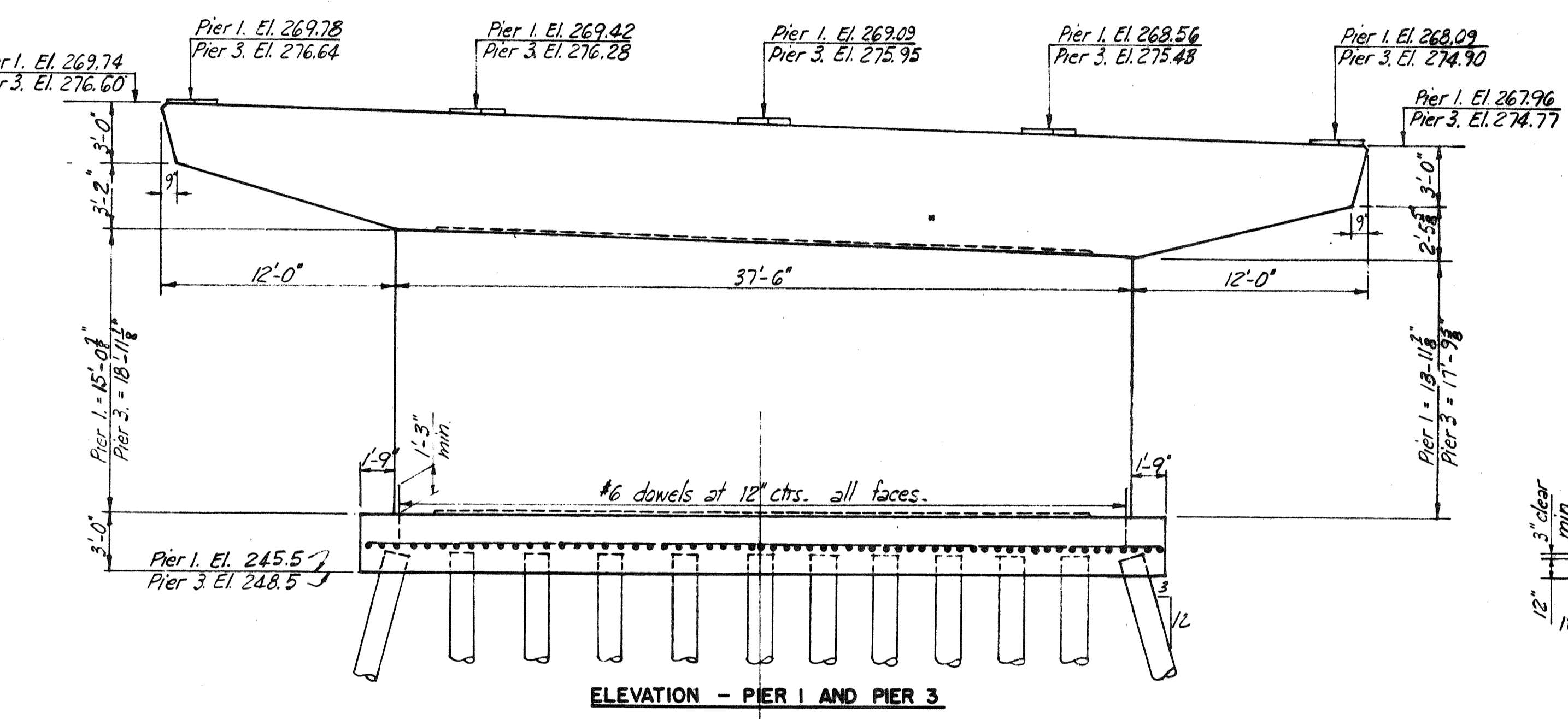
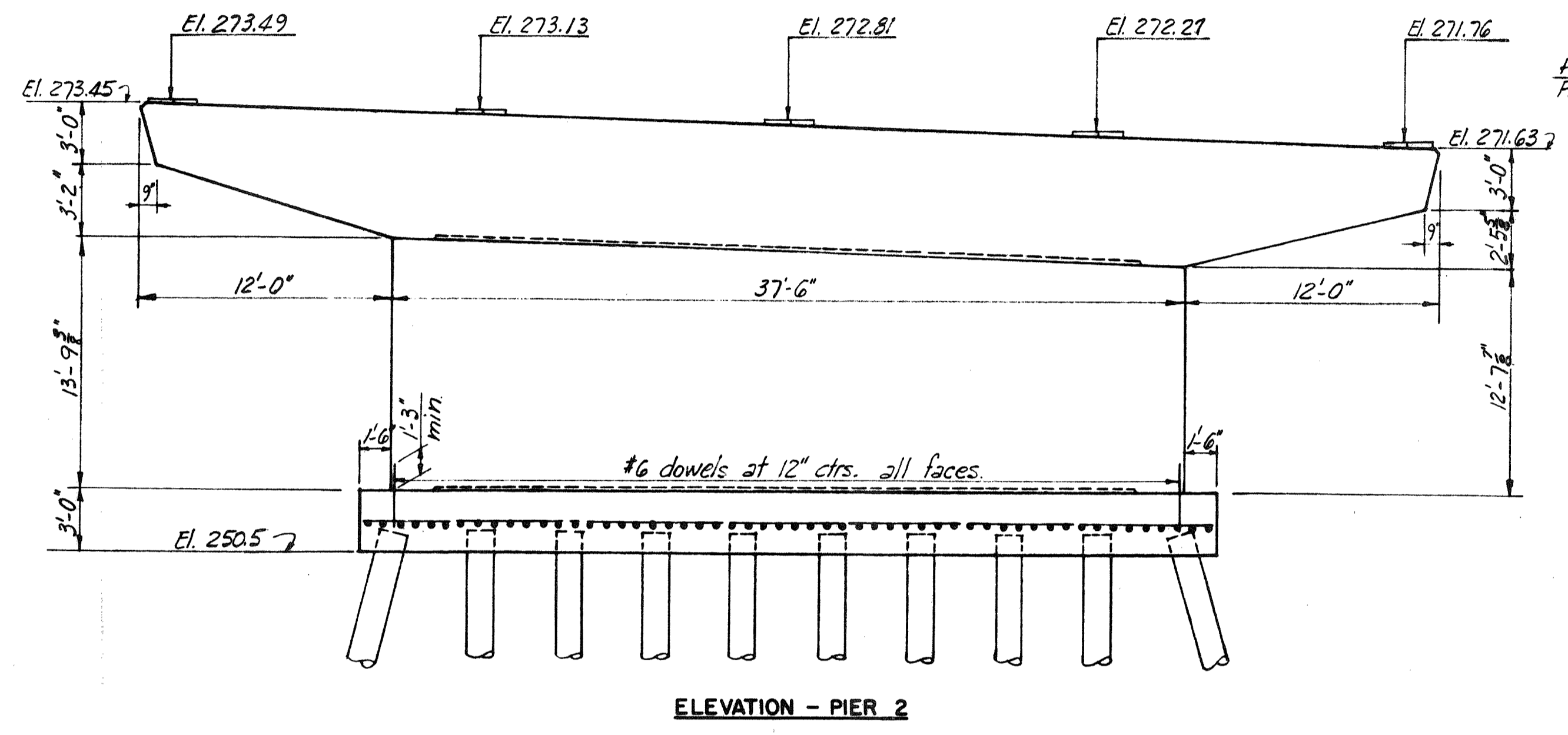
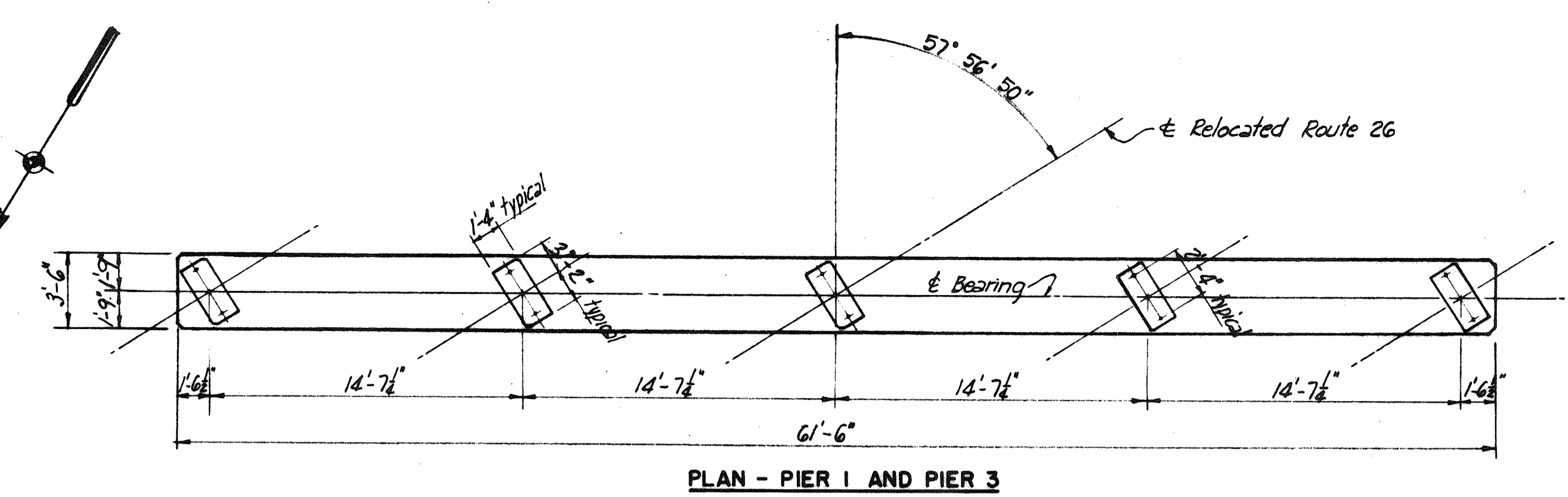
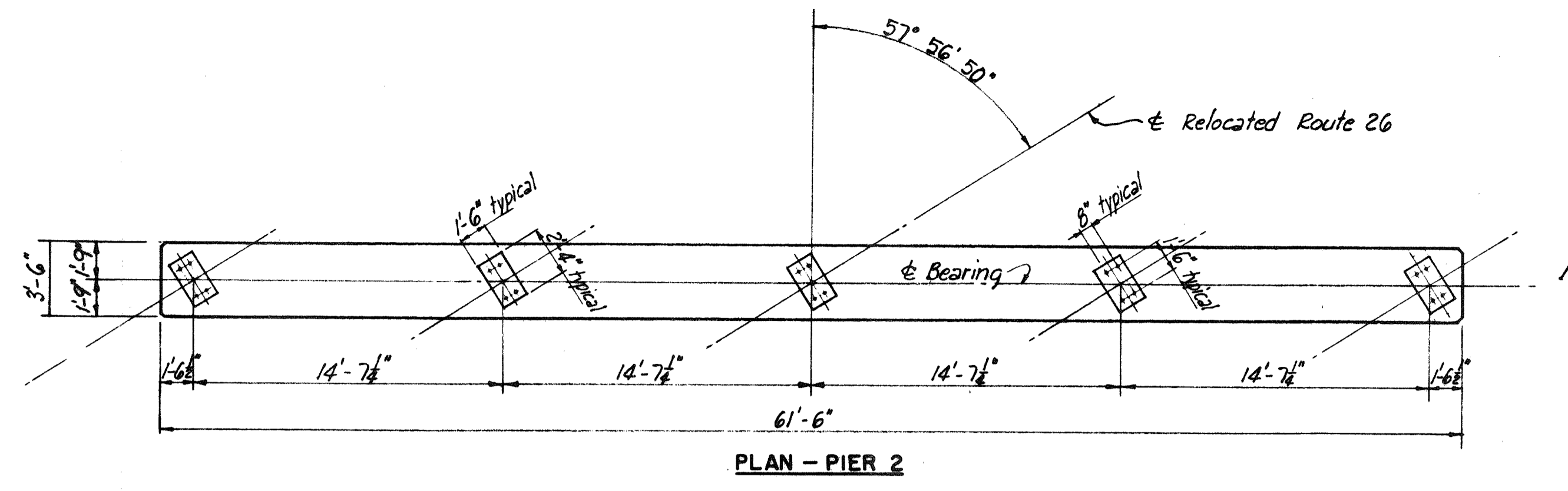


EAST WINGWALL
Scale: 1/4" = 1'-0"

WEST WINGWALL
Scale: 1/4" = 1'-0"

DRAWING 41.04.06		5 Corr. Dim.	LVA #22-35
BY	DATE	4 1/2" conduit added	RFS 3/30/54
MADE	WCM 11-6-53	3 Added piles	NER 2/26/54
TRACED		2 Copper Waterstop	WCM 1/15/54
CHECKED	DHL 12-17-53	1 Bar Legend	WCM 1/8/54
IN CHARGE OF	10SK	No.	REVISION
		6	As-Built
			HBN 1/20/54

MAINE TURNPIKE AUTHORITY	
SECTION 2— PORTLAND TO AUGUSTA	
STRUCTURE NO 41	TURNPIKE UNDER
RELOCATED STATE HIGHWAY ROUTE 26	
STA 3232 + 68.30	
ABUTMENT NO. 2 WINGWALLS	
HOWARD, NEEDLES, TAMMEN & BERGENDOFF	SCALE: As Noted
CONSULTING ENGINEERS	CONTRACT NO. _____
NEW YORK KANSAS CITY	SHEET NO. 123 OF 382



Note:
All piles to be concrete
cast-in-place piles.
Batter Piles shown battered
3" per foot.

DRAWING 41.05.06

BY	DATE	REVISION	BY	DATE
TKC	11-3-53	3 As-Built	HBN	1/20/54
TRACED		2 Test Piles	TTR	3/9/54
CHECKED	DHL 12-17-53	1 Pile pattern Pier 3	AEP	3-1-54
IN CHARGE OF	I. D. S. K.	No.	REVISION	BY

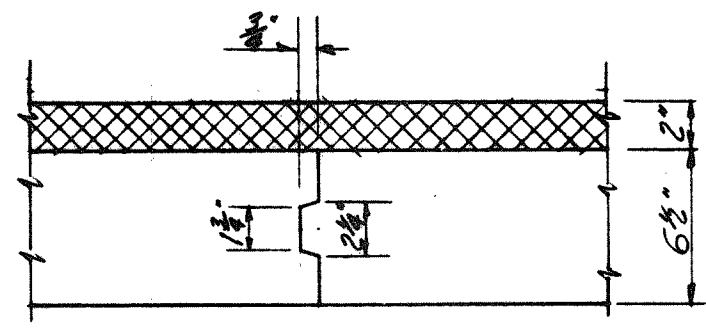
MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
 SECTION 2— PORTLAND TO AUGUSTA

STRUCTURE NO. 41 TURNPIKE UNDER
 RELOCATED STATE HIGHWAY ROUTE 26
 STA. 3232 + 68.30
PIERS

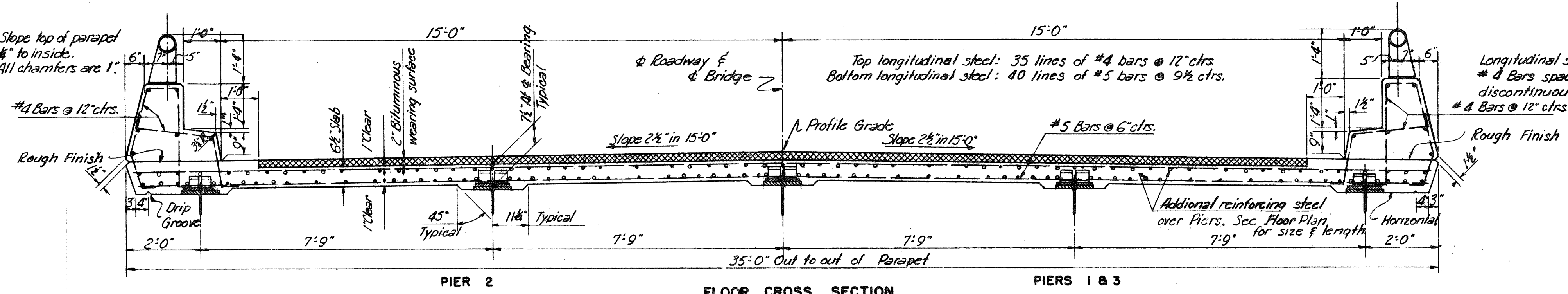
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 NEW YORK KANSAS CITY

SCALE: 3/16" = 1'-0"
 CONTRACT NO. _____
 SHEET NO. 122 OF 302

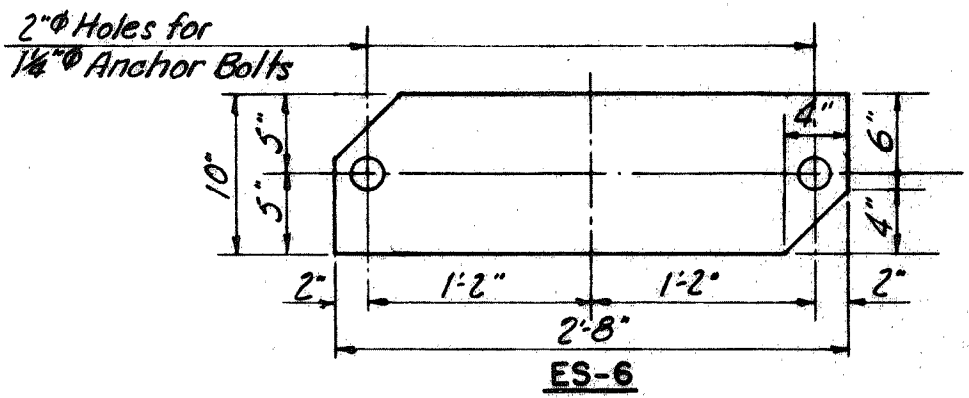
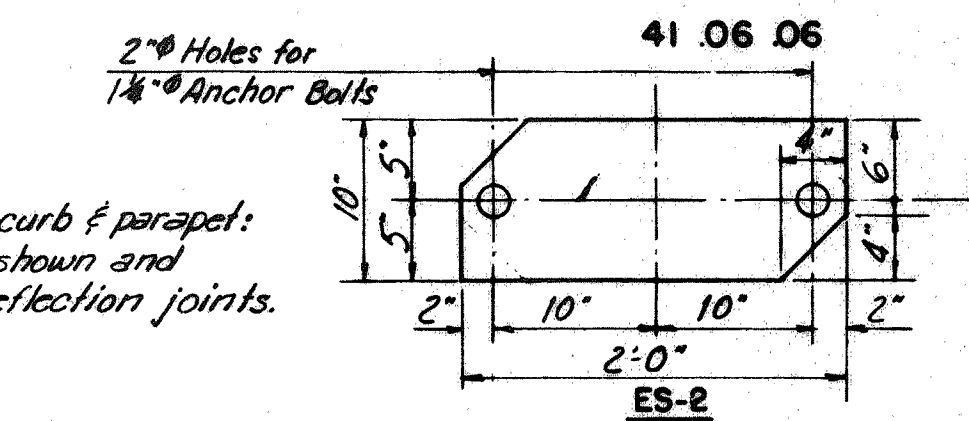
FLOOR CONSTRUCTION JOINT DETAIL
Scale: 1/2" = 1'-0"



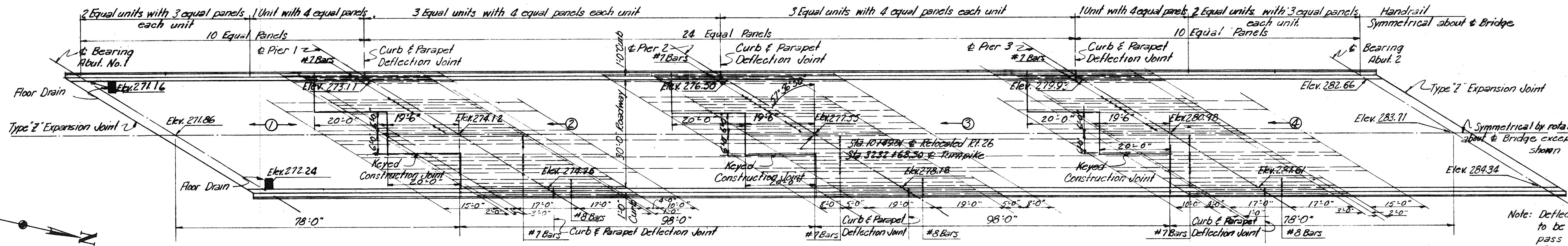
Note: Slope top of parapet 1/4" to inside.
All chamfers are 1".



FLOOR CROSS SECTION
Scale: 1/2" = 1'-0"

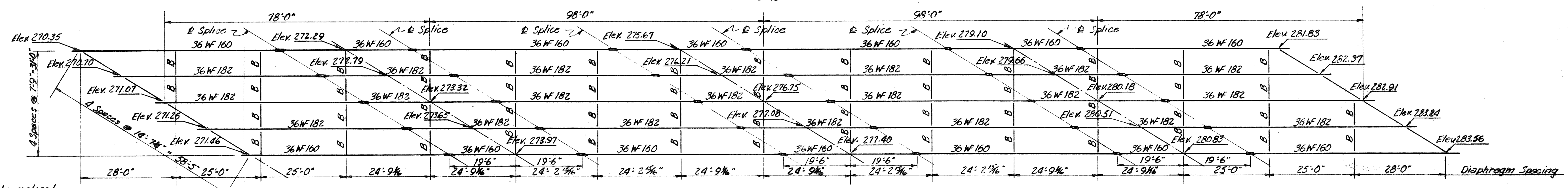


MASONRY PLATES

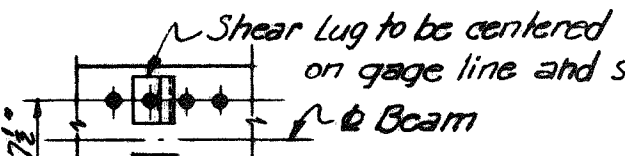


FLOOR PLAN
Scale: 1/8" = 1'-0"

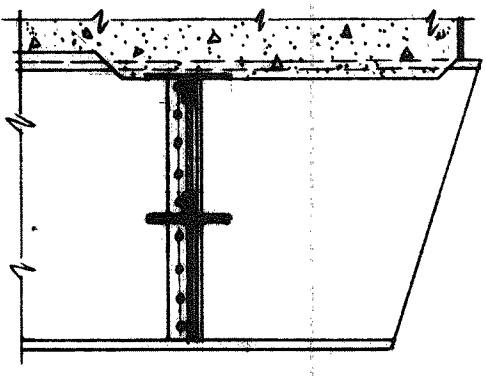
Note: Deflection joints in Curb & Parapet to be normal to Gutter Line and pass thru points of intersection of Bearing of Piers with inside face of Parapet.



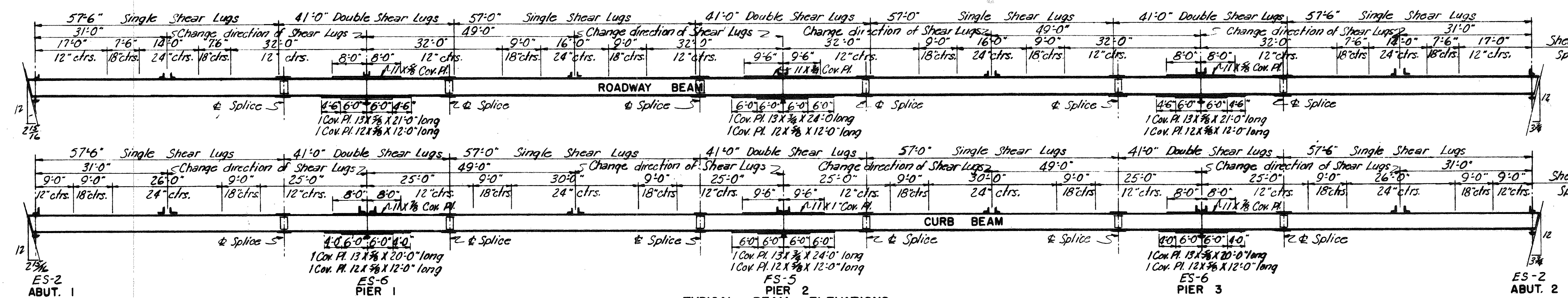
FRAMING PLAN
Scale: 1/8" = 1'-0"



SHEAR LUG DETAIL AT SPLICES
Scale: 1/4" = 1'-0"



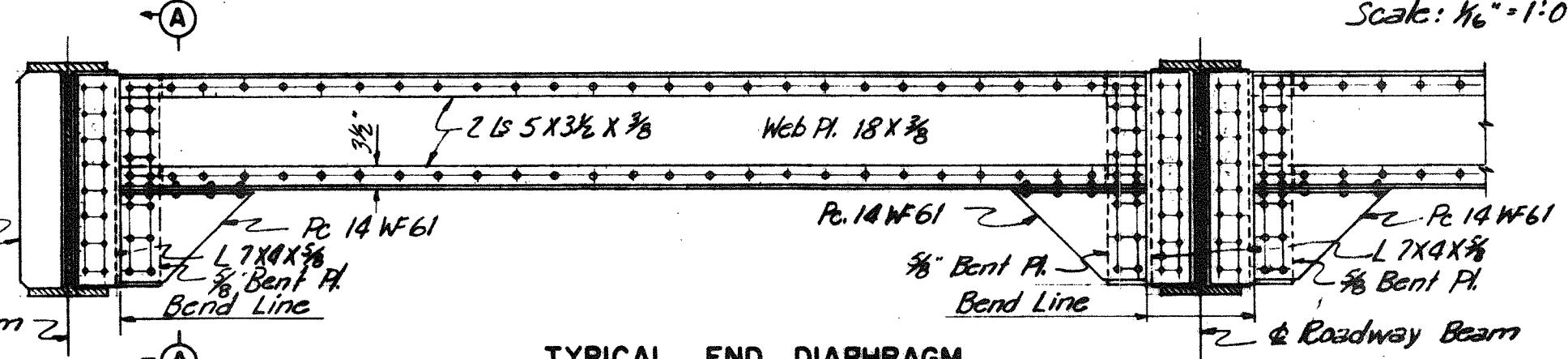
SECTION A-A
Scale: 1/2" = 1'-0"



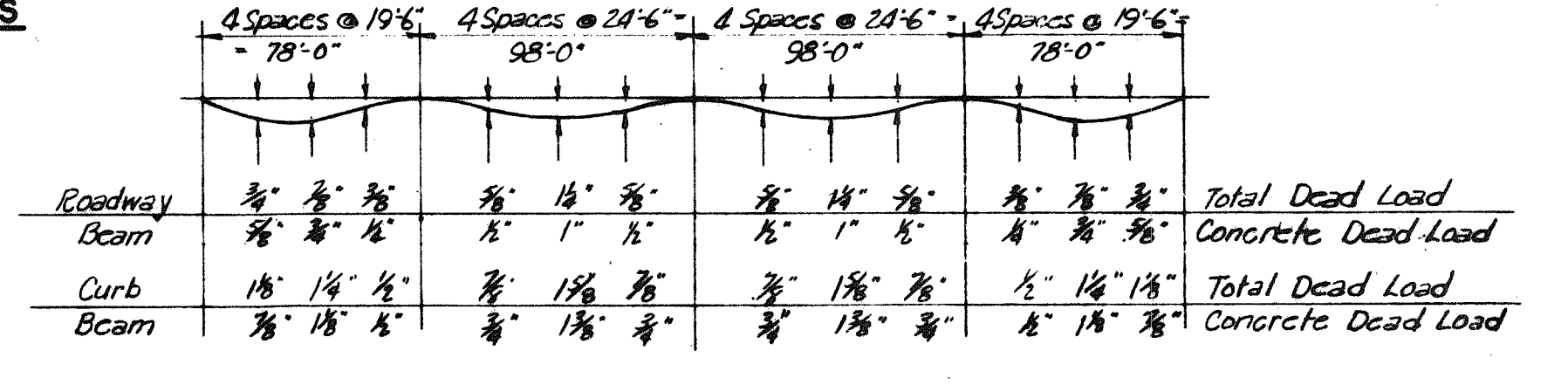
TYPICAL BEAM ELEVATIONS
Scale: 1/8" = 1'-0"

Note: Provide 1-3" conduit in the East superstructure parapet wall as shown on Standard Drawing No. 23.

Note: Bearing stiffeners at Piers to be 2 B 7X4X 1/2". Bearing stiffeners at Abutments to be 2 B 7X4X 1/2". Stiffeners angles at points of support to be milled to bear top of bottom. All other angles to be close fit.



TYPICAL END DIAPHRAGM
Scale: 1/2" = 1'-0"



DEFLECTION DIAGRAM
No Scale

DRAWING NO. 41.06.06				
NO.	REVISION	BY	DATE	DESCRIPTION
1	AS-BUILT	HWB	12/25/56	
2				
3				
4				

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
SECTION 2— PORTLAND TO AUGUSTA

STRUCTURE NO. 41 TURNPIKE UNDER
RELOCATED STATE HIGHWAY ROUTE 26
STA. 3232 + 68.30
SUPERSTRUCTURE

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK KANSAS CITY

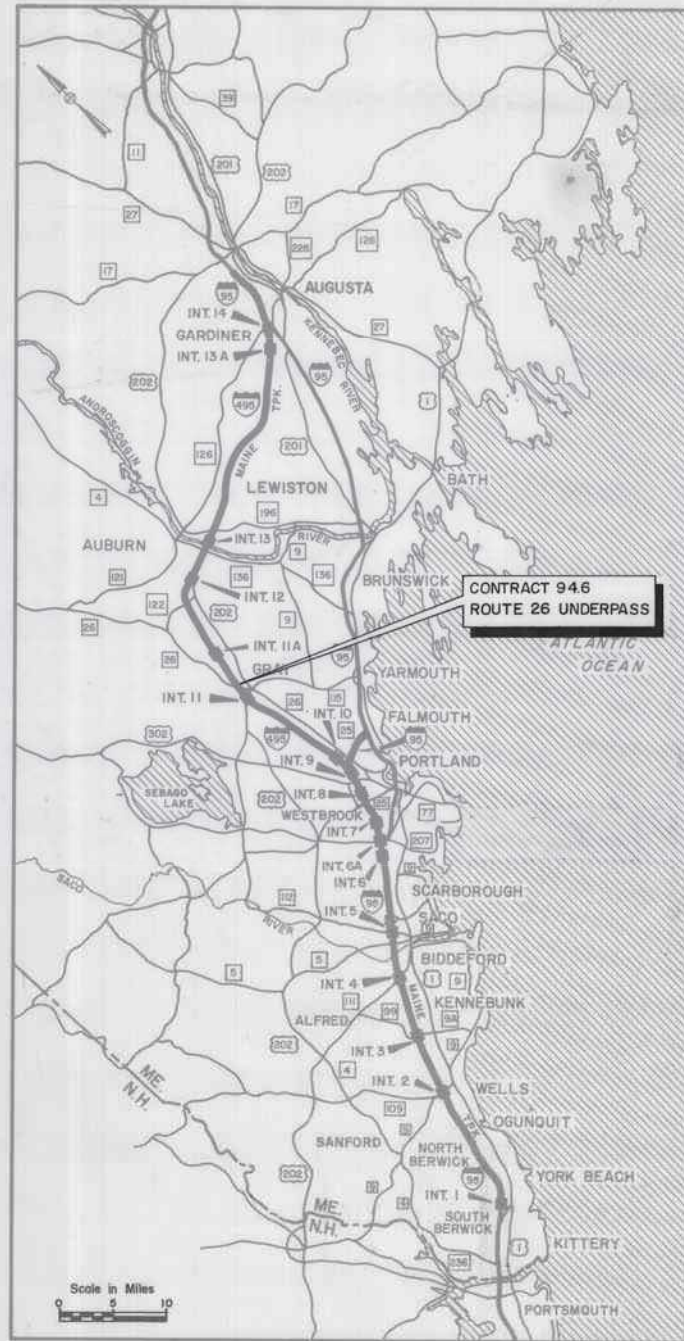
SCALE: As Shown
CONTRACT NO.
SHEET NO. 182 OF 382

MAINE TURNPIKE AUTHORITY

MAINE TURNPIKE



ROBERT K. PACIOS, CHAIRMAN
 JULIAN R. COLES, VICE CHAIRMAN
 DANIEL J. CALLAHAN, MEMBER
 DEBORAH H. S. CIANCHETTE, MEMBER
 DANA F. CONNORS, MEMBER EX-OFFICIO
 PAUL E. VIOLETTE, EXECUTIVE DIRECTOR



LOCATION MAP

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION

COMMISSIONER _____ DATE _____
 BUREAU DIRECTOR AND CHIEF ENGINEER _____ DATE _____

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS



Roland A. Lavalley
 ROLAND A. LAVALLEE P.E.
 PROJECT MANAGER
 DATE 4/25/97

INDEX OF SHEETS



- 1 TITLE SHEET
- 2 ESTIMATED QUANTITIES
- 3 GENERAL NOTES
- 4-5 TYPICAL SECTIONS & MISCELLANEOUS DETAILS
- 6-8 HIGHWAY STANDARD DETAILS
- 9 SITE PLAN - ROUTE 26
- 10 PROFILE ROUTE 26
- 11-13 TRAFFIC CONTROL PLANS & NOTES
- 14-19 CROSS SECTIONS - ROUTE 26
- 20-33 BRIDGE PLANS - ROUTE 26
- 34-35 BRIDGE STANDARD DETAILS

CONTRACT 94.6
 BRIDGE DECK REPLACEMENT
 ROUTE 26 UNDERPASS
 MM 61.96

APPROVED:
 MAINE TURNPIKE AUTHORITY

CHAIRMAN _____
 EXECUTIVE DIRECTOR _____
 DATE _____

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.12	Removing Existing Structural Concrete	35	CY
202.122	Removing Existing Superstructure Concrete	1369	SY
202.20	Protective Shield	1525	SY
202.202	Removing Pavement Surface	310	SY
203.20	Common Excavation	550	CY
301.09	Plant Mix Bituminous Base Course, Grading B	330	TON
304.10	Aggregate Subbase Course - Gravel	225	CY
401.10	Sawing Bituminous Pavement	75	LF
403.07	Hot Bituminous pavement, Grading B	310	TON
403.08	Hot Bituminous pavement, Grading C	240	TON
403.13	Dense Graded Bituminous Pavement for Bridges	104	TON
409.15	Bituminous Tack coat, applied	75	GAL
421.01	Precast Concrete Downspout	100	L.F.
502.211	Structural Concrete, Abutments & Retaining Walls Route 26	39	CY
502.23	Structural Concrete Piers	3	CY
502.260	Structural Concrete Roadway and Fwy/rapel on Steel Bridges - Route 26	1	LS
502.39	Structural Concrete Class AA	3	cy
502.60	Backwall Repair - Surface Patch - Section II	60	SF
502.61	Abutment and Bridge Deck Repairs - Section II	110	SF
502.63	Pier Repairs	15	SF
502.64	Wingwall Repairs - Section II	900	SF
502.71	Patchroc 10-60 - Bridge Deck Repair	50	EA
503.14	Epoxy Coated Reinforcing Steel, Fabricated and Delivered	126000	LB
503.15	Epoxy Coated Reinforcing Steel, Placing	126000	LB
504.70	Structural Steel Fabricated and Delivered-Route 26	1	LS
504.71	Structural Steel Erection - Route 26	1	LS
504.721	Jacking Existing Superstructure - Route 26	1	LS
505.081	Shear Connectors - Route 26	1	LS
507.092	Aluminum Bridge Railing, 2 Bar	709	LF
508.13	Membrane Waterproofing - Route 26	1	LS
514.06	Curing Box for Concrete Cylinders	1	EA
515.20	Protective Coating for Concrete Surfaces	608	SY
515.201	Concrete Protective Coating	553	SY
520.22	Expansion Device - Compression Seal	2	EA
523.103	Pol Bearings	25	EA
526.41	Temporary Concrete Barrier, Type I	360	LF
526.40	Resetting Temporary Concrete Barrier, Type I	360	LF
527.101	Temporary Impact Attenuator System	2	UNIT
606.17	Guardrail Type 3b - Single Rail	50	LF
606.172	Temporary Steel Guardrail	700	LF
606.174	Guardrail Attachment - Type A	4	EA
606.35	Guardrail Delineator Post	3	EA
606.37	Guardrail Remove and Dispose	275	LF
606.381	Guardrail Remove and Reset, Single Rail	550	LF
606.48	Single Galvanized Steel Post	10	EA
606.77	Breakaway Cable Terminal	3	EA
609.15	Sloped Curb Type I	16	LF
615.07	Loam	60	CY
618.141	Seeding Method Number 3	5	UNIT
618.25	Applied Water	1	M.G.
619.12	Mulch	5	UNIT
627.61	4 Inch Solid White Pavement Marking Line	1950	LF
627.63	4 Inch Solid Yellow Pavement Marking Line	2150	LF
627.67	Removing Pavement Markings	100	SF
627.73	6 Inch White Temporary Pavement Marking - Tape	48	LF
629.05	Hand Labor - Straight Time	100	MH
631.171	Truck - Small - (Including Operator)	30	HR
631.36	Foreman, Straight Time	100	MH
637.07	Sprinkling	15	M.G.
637.08	Calcium Chloride	2	TON
639.19	Field Office Type B	1	EA
643.721	Temporary Traffic Signal - Route 26	1	LS
652.30	Flashing Arrow Board	2	EA
652.33	Drum	51	EA
652.34	Cone	30	EA
652.35	Construction Signs	1400	SF
652.361	Maintenance of Traffic Control Devices	1	LS
652.38	Flaggers	200	MH
656.50	Baled Hay, in Place	80	EA
656.51	Sandbag, in place	50	EA
656.632	30" Temporary Silt Fence	200	LF
659.10	Mobilization	1	LS

Maine Turnpike Authority	
Maine Turnpike	
ROUTE 26	
ESTIMATED QUANTITIES	
	
	
<small>HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS</small>	
Contract 94.6	Sheet No. 2 of 35

No.	Revision	By:	Date:	In charge etc.
		Designed	LAZ 4/94	
		Drawn	WLG 4/94	
		Checked	KJC 4/94	

GENERAL NOTES

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS ENCOUNTERED.

OVERHEAD UTILITY LINES WITH LESS THAN 20' CLEARANCE MAY EXIST. THESE OVERHEAD LINES WILL NOT BE RELOCATED OR RAISED TO FACILITATE THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING THE WORK SITE AND PLANNING HIS OPERATIONS BASED ON THE LOCATION OF THE OVERHEAD LINES.

CENTRAL MAINE POWER (CMP) WILL COVER THE ELECTRICAL LINES IF REQUIRED. CMP REQUIRES 96 HOURS OF ADVANCE NOTIFICATION PRIOR TO THE INSTALLATION OF COVERS.

UNDERGROUND CONDUIT MAY EXIST UNDER THE ROADWAYS AT THE BRIDGE APPROACH. NYNEX SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WORK WHICH MAY AFFECT THEIR UTILITY.


THE INSTALLATION OF THE TEMPORARY TRAFFIC SIGNAL SHALL BE COORDINATED WITH THE RESPECTIVE UTILITIES. THE ENGINEER WILL NOT APPROVE THE INSTALLATION OF THE SYSTEM UNTIL AFTER RECEIPT OF WRITTEN DOCUMENTATION FROM THE UTILITY APPROVING OF THE INSTALLATION.
2. CLEARING LIMITS SHALL BE 5' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
3. THE NORMAL GRUBBING WIDTH IN FILLS SHALL BE VARIABLE LEFT OR RIGHT, WHEN SUBGRADE IS LESS THAN 5 FT. ABOVE OLD GROUND. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6 INCHES IN FIELD AREAS AND 12 INCHES IN WOODED AREAS.
4. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND, IF REQUIRED, SHALL MEET REQUIREMENTS FOR GRANULAR BORROW-UNDERWATER BACKFILL AND WILL BE PAID FOR AS GRANULAR BORROW.
5. ONE GUARDRAIL DELINEATOR POST SHALL BE INSTALLED AT EACH GUARDRAIL END.
6. EXISTING DRAINAGE SYSTEMS SHALL NOT BE ABANDONED, PLUGGED OR REMOVED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
7. BREAKAWAY CABLE TERMINALS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL, UNLESS OTHER APPROVED TEMPORARY PROTECTION HAS BEEN AUTHORIZED.
8. CURB TYPE 3 SHALL BE INSTALLED WITH MOLD 2 AND SEALED WITH BITUMINOUS SEALING-BLACK, AS DIRECTED BY THE ENGINEER. THE SEALING OF CURB TYPE 3 WITH BITUMINOUS SEALING-BLACK SHALL BE CONSIDERED INCIDENTAL TO THE CURB ITEM.
9. 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE ENGINEER AND SHALL CONFORM TO SECTION 615 OF THE STANDARD SPECIFICATIONS.
10. ALL SLOPES SHALL BE SEEDED WITH SEEDING METHOD NO. 1, 2, OR 3 AND SHALL CONFORM TO SECTION 618 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED.

SEEDING METHOD NUMBER 1 SHALL BE UTILIZED ON ALL LAWNS AND OTHER DEVELOPED AREAS.

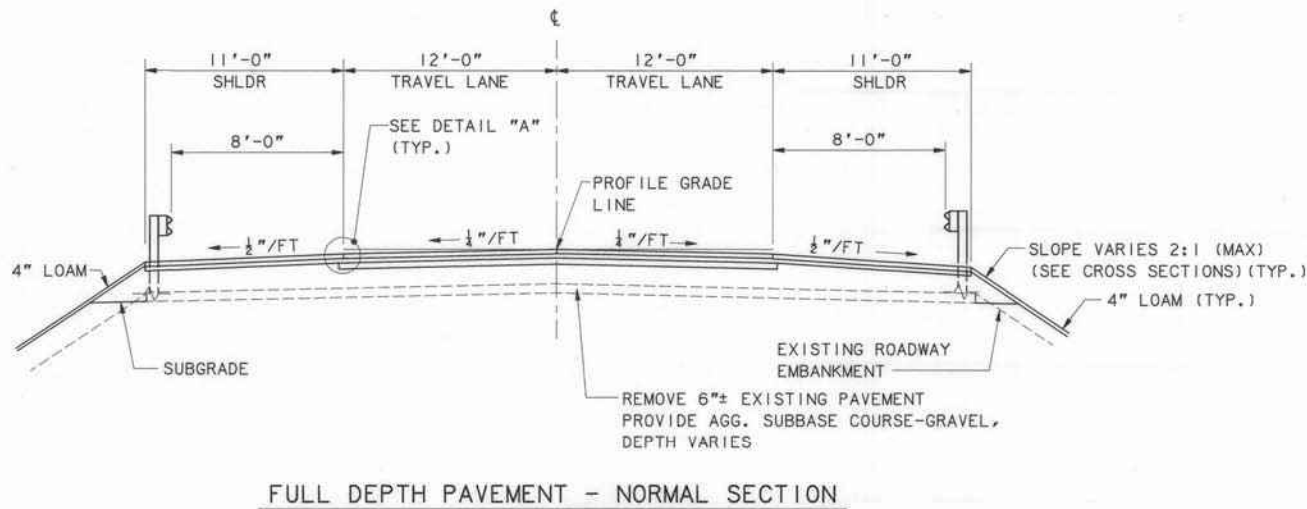
SEEDING METHOD NUMBER 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL FORESLOPES FROM THE EDGE OF SHOULDER TO THE DITCH LINE OR TOE OF FILL.

SEEDING METHOD NUMBER 3 SHALL BE UTILIZED ON ALL BACKSLOPES AND ON ALL GUARDRAIL FILL SLOPES.
11. THE INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED AS DESIGNATED ON THE PLANS.
12. SURPLUS MATERIAL AND LEDGE DEBRIS SHALL NOT BE PLACED WITHIN 10 FEET OF THE OUTSIDE OF A CULVERT.
13. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS CONTAINED IN THE STATE OF MAINE'S NATURAL RESOURCES PROTECTION ACT PERMIT BY RULE - SECTION 11 STANDARDS AND WITH SECTION 404 AS PROMULGATED BY THE U.S. ARMY CORPS OF ENGINEERS.
14. THE FILL SHOWN ON THE CROSS SECTIONS INCLUDES THE WASTE STORAGE AREA.
15. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-.652 (CONSTRUCTION STANDARD FOR EXCAVATION).
16. THE REMOVAL AND DISPOSAL OF HEADWALLS AND PIPE SHALL BE INCIDENTAL TO THE VARIOUS DRAINAGE ITEMS.
17. IF REQUIRED, CONNECTION FOR PROPOSED FENCE TO EXISTING FENCE WILL BE CONSIDERED INCIDENTAL TO ITEM 607.17, CHAIN LINK FENCE - 6 FOOT.
18. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
19. MULCH SHALL BE APPLIED IN AREAS SEEDED BY SEEDING METHODS NO. 1, 2 AND 3.
20. REQUIRED EROSION AND SEDIMENTATION CONTROL SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY. ACTUAL TYPE AND LOCATION OF DEVICES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
21. THE COST OF FURNISHING AND INSTALLATION OF W BEAM TERMINAL CONNECTORS AT BRIDGE END WALL LOCATIONS SHALL BE INCLUDED WITH THE UNIT BID PRICE OF ITEM 606.174 GUARDRAIL ATTACHMENT-TYPE A.
22. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-800-322-4844 PRIOR TO THE START OF THE WORK.

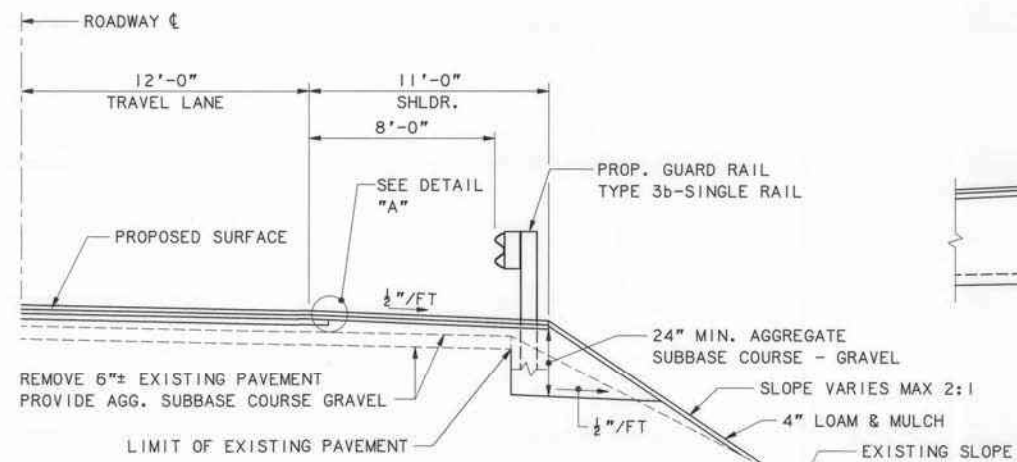
				By:	Date:
				Designed	KJC 4/94
				Drawn	CTW 4/94
				Checked	RJD 4/94
No.	Revision	By:	Date:	In charge of:	RAL

Maine Turnpike Authority Maine Turnpike	
	GENERAL NOTES
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	
Contract 94.6	Sheet No. 3 of 35

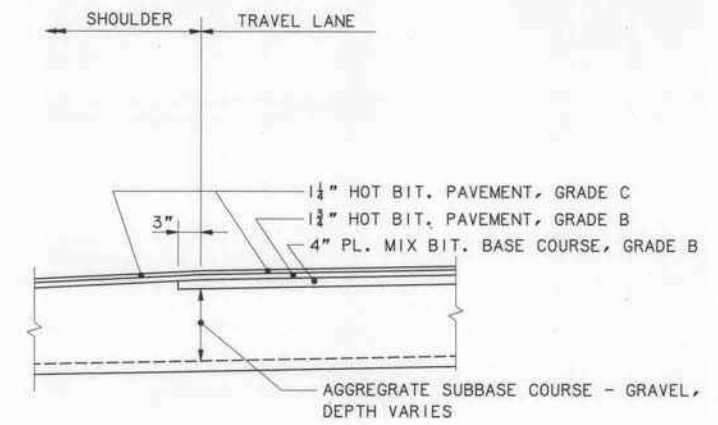
3" HOT BITUMINOUS PAVEMENT
ROUTE 26



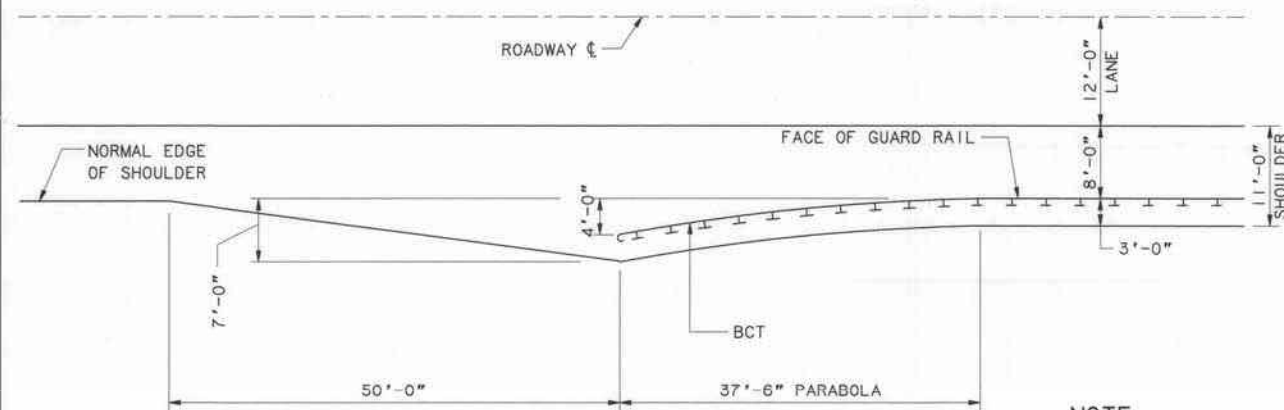
FULL DEPTH PAVEMENT - NORMAL SECTION



TYPICAL SHOULDER EXCAVATION



DETAIL "A"



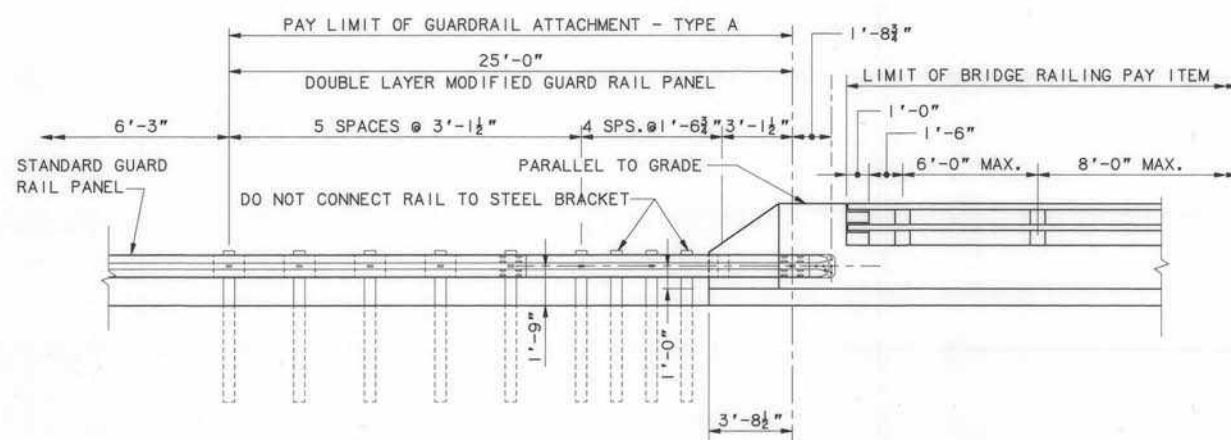
DETAIL OF SLOPE WIDENING
FOR BREAKAWAY CABLE TERMINAL

NOTE:

1. WIDENING THE SHOULDER FOR BCT SHALL BE INCLUDED FOR PAYMENT UNDER THE VARIOUS PAVEMENT AND EMBANKMENT ITEMS.

NOTES:

1. THE PAVEMENT, BASE DEPTHS AND CROSS SLOPES AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR NORMAL SECTIONS FOR ALL COURSES OF PAVEMENT, BASE AND SUBBASE SHALL BE STRAIGHT.
3. THE EXISTING PAVEMENT STRUCTURE SHALL BE EXCAVATED TO THE LIMITS SHOWN ON THE CROSS SECTIONS AND REPLACED WITH AGGREGATE SUBBASE COURSE - GRAVEL AS DIRECTED BY THE ENGINEER.
4. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER AS TO LEAVE A CLEAN VERTICAL FACE. THIS WILL BE PAID FOR UNDER ITEM 401.10, SAWING BITUMINOUS PAVEMENT.
5. WHERE HOT BITUMINOUS PAVEMENT GRADE "C" IS TO MEET EXISTING PAVEMENT, A BUTT JOINT WILL BE REQUIRED. SEE PAVEMENT TRANSITION DETAIL. DISPOSAL OF THE EXISTING PAVEMENT WILL BE INCIDENTAL TO ITEM 202.202.
6. WHERE CUT SECTIONS ARE PROPOSED, REMOVE EXISTING PAVEMENT AND ANY NECESSARY SUBBASE, SUCH THAT WHEN 7" OF PAVEMENT IS ADDED, THE PROPOSED GRADE IS OBTAINED.

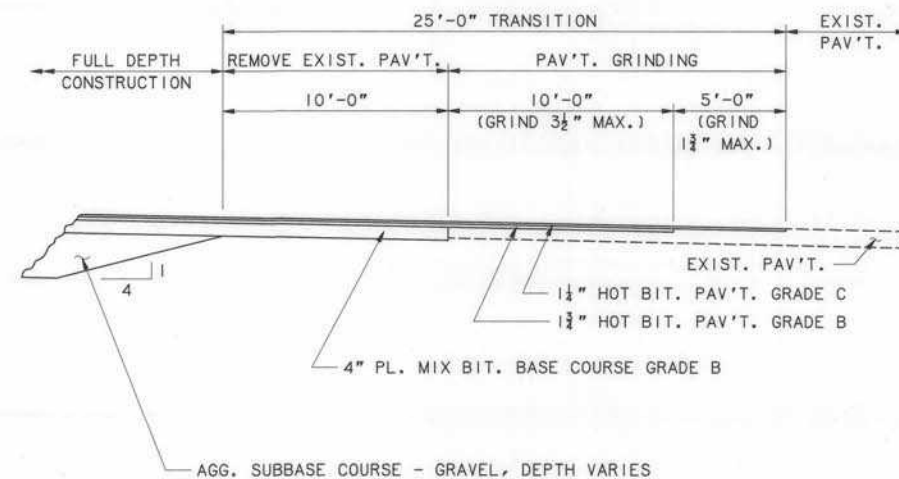


HIGHWAY GUARD ATTACHMENT
TO BRIDGE END POST

1/4" = 1'-0"

NOTE:

1. FOR ADDITIONAL GUARDRAIL ATTACHMENT INFORMATION REFER TO STANDARD DETAIL BD201-89



LOCAL ROAD
PAVEMENT TRANSITION AT
FULL DEPTH CONSTRUCTION

1/4" = 1'-0"

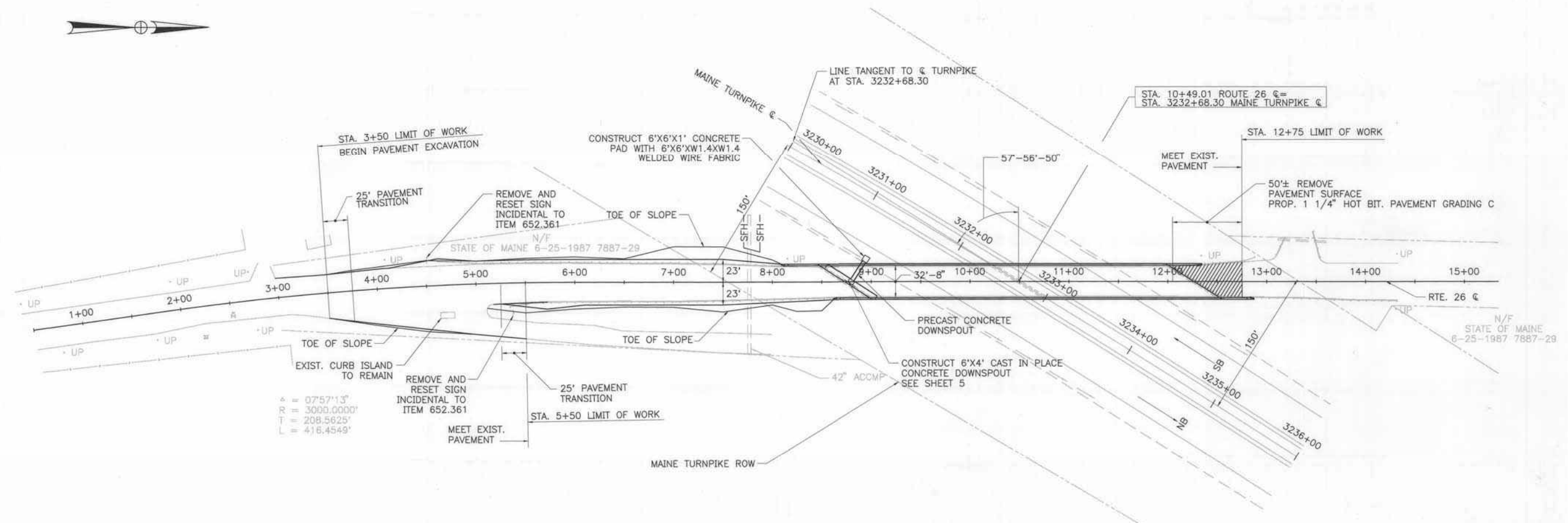
No.	Revision	Byt	Dates	In charge of:	RAL

Maine Turnpike Authority
Maine Turnpike

ROUTE 26
TYPICAL SECTIONS
AND MISC. DETAILS

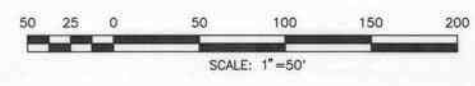
HNTB HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

Contract 94.6 Sheet No. 4 of 35



PLAN

ITEM 606.381 GUARDRAIL REMOVE AND RESET - SINGLE RAIL	LF	ITEM 606.77 BREAKAWAY CABLE TERMINAL	EACH	ITEM 627.61 4 INCH SOLID WHITE PAVEMENT MARKING LINE	LF
STA. 5+00 LT TO STA. 8+00 LT	300	STA. 5+00 LT	1	STA. 3+50 LT TO STA. 12+75 LT	925
STA. 6+10 RT TO STA. 8+50 RT	237.5	STA. 6+10 RT	1	STA. 3+50 RT TO STA. 12+75 RT	925
STA. 6+10 RT TO STA. 8+50 RT		STA. 12+50 LT	1		
ITEM 606.174 GUARDRAIL ATTACHMENT -TYPE A	EACH	ITEM 606.37 GUARDRAIL REMOVE AND DISPOSE	LF	ITEM 627.63 4 INCH SOLID YELLOW PAVEMENT MARKING LINE	LF
STA. 8+00 LT	1	STA. 4+85 LT TO STA. 5+00 LT	38	STA. 2+75 TO STA. 12+75	2000
STA. 8+50 RT	1	STA. 5+50 RT TO STA. 6+10 RT	75	STA. 14+15 TO STA. 14+90	150
STA. 12+25 LT	1	STA. 8+00 LT TO STA. 8+25 LT	25		
STA. 12+75 RT	1	STA. 8+50 RT TO STA. 8+75 RT	25		
ITEM 656.632 30" TEMPORARY SILT FENCE	LF	STA. 12+25 LT TO STA. 12+88 LT	63		
STA. 7+75± LT	90	STA. 12+75 RT TO STA. 13+00 RT	25		
STA. 7+75± RT	90				



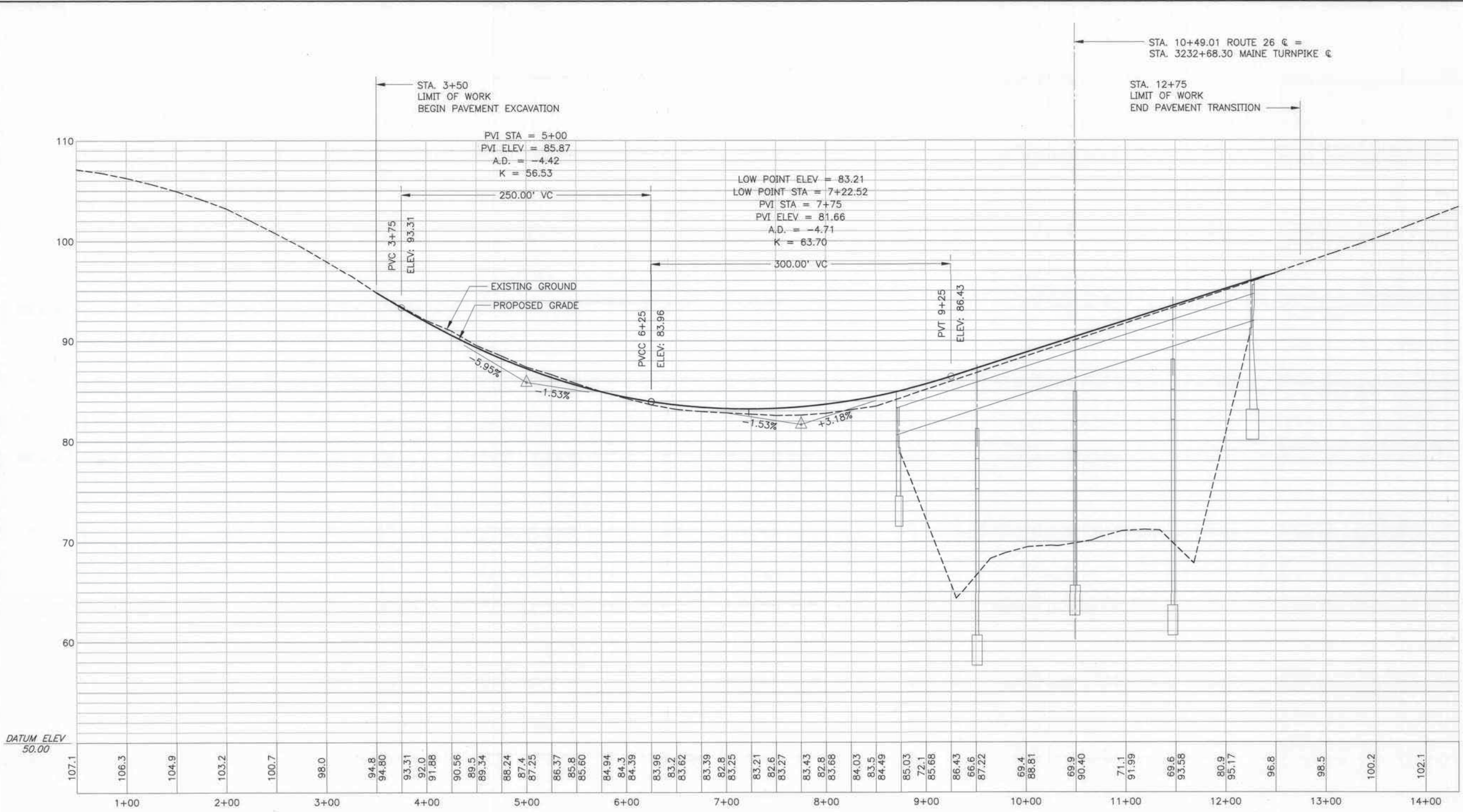
Maine Turnpike Authority
Maine Turnpike

**RTE 26 OVER
MAINE TURNPIKE**

HNTB
HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

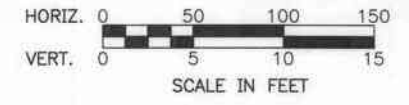
Contract	94.6	Sheet No.	9 of 35
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No.	Revision	By	Date	In Charge Of	RAL



DATUM ELEV
50.00

107.1	106.3	104.9	103.2	100.7	98.0	94.8	94.80	93.31	92.0	91.88	90.56	89.5	89.34	88.24	87.4	87.25	86.37	85.8	85.60	84.94	84.3	84.39	83.96	83.2	83.62	83.39	82.8	83.25	83.21	82.6	83.27	83.43	82.8	83.66	84.03	83.5	84.49	85.03	72.1	85.68	86.43	66.6	87.22	69.4	88.81	69.9	90.40	71.1	91.99	69.6	93.58	80.9	95.17	96.8	98.5	100.2	102.1
1+00			2+00		3+00		4+00		5+00		6+00		7+00		8+00		9+00		10+00		11+00		12+00		13+00		14+00																														



Maine Turnpike Authority Maine Turnpike		ROUTE 26 PROFILE	
 HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS		Contract	94.6
		Sheet No.	10 of 35

			By	Date
			Designed	LAZ 4/94
			Drawn	RDF 4/94
			Checked	RJD 4/94
			In Charge Of	RAL

SPECIFICATIONS

DESIGN

"AAHSTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1989" WITH ALL THE INTERIMS.

CONTRACT

STATE OF MAINE. DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. HIGHWAY AND BRIDGES. REVISION OF OCTOBER 1990

LIVE LOAD

H20 LOAD FACTOR

MATERIALS

CONCRETE

ALL CONCRETE SHALL BE CLASS AAA
 $n = 8$ $f_c = 1,800 \text{ P.S.I.}$

$f'c = 4,500 \text{ P.S.I.}$

REINFORCING STEEL

ASTM A615 GRADE 60

$f'b = 24,000 \text{ P.S.I.}$

STRUCTURAL STEEL

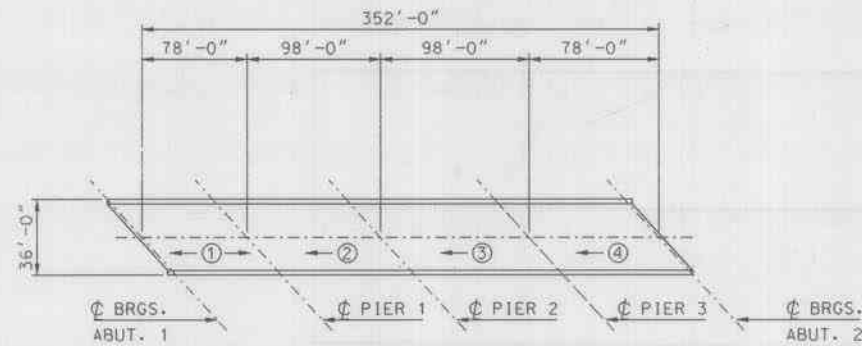
ASTM A709 GRADE 36

$f'b = 20,000 \text{ P.S.I.}$

GENERAL NOTES

1. REINFORCING STEEL TO HAVE A CLEAR COVER AS SHOWN ON THE PLANS.
2. CHAMFER ALL EXPOSED EDGES 1" UNLESS OTHERWISE NOTED.
3. PLANS OF EXISTING BRIDGES ARE AVAILABLE AT THE AUTHORITY'S OFFICE AT 430 RIVERSIDE ST. PORTLAND, MAINE
4. SHIELDING REQUIRED DURING CONCRETE REMOVAL SHALL NOT PROJECT BELOW THE BOTTOM FLANGES OF STRINGERS. THE ESTIMATED QUANTITY OF SHIELDING IS THE MINIMUM REQUIRED AND IS BASED ON THE FOLLOWING LIMITS:
 A. NORMAL TO ϕ BRIDGE: AS SHOWN ON THE PLANS
 B. PARALLEL TO ϕ BRIDGE: ABUTMENT TO ABUTMENT
5. THE CONTRACTOR HAS THE OPTION OF SUBSTITUTING CLASS A CONCRETE FOR ITEM 502.21
6. FOR STEEL REINFORCING SCHEDULE, SEE SHEET S9 AND S10.
7. ALL STEEL REINFORCING SHALL BE EPOXY COATED.
8. DO NOT COVER DECK DRAINS WITH MEMBRANE. DEPRESS DRAINS $1/2"$ BELOW TOP OF SLAB. PROVIDE 23 GAUGE GALVANIZED SCREENS (1/8" MESH) OVER DRAINS. PAYMENT INCIDENTAL TO CONTRACT ITEM: 502.260
9. THE AUTHORITY'S PERSONEL WILL PROFILE THE TOPS OF ALL STRINGERS BEFORE THE FORM WORK IS STARTED AND SUPPLY THE CONTRACTOR WITH FINAL BOTTOM OF SLAB ELEVATIONS.
10. THE CONCRETE DECK SURFACE SHALL BE GIVEN A SMOOTH BULL OR WOOD FINISH .
11. THE EXISTING CONCRETE DECK SHALL BE SAW CUT 5" DEEP. SAW TYPE SHALL BE APPROVED BY THE ENGINEER. SAW CUTTING OF THE DECK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 202.122

ITEM	DESCRIPTION	UNIT	QUANTITIES
			ROUTE 26
202.12	Removing Existing Structural Concrete	C.Y.	35
202.122	Removing Existing Superstructure Concrete	S.Y.	1,369
202.20	Protective Shield	S.Y.	1,525
403.13	Dense Graded Bit. Pavemat for Bridges	Ton.	104
502.211	Structural Concrete, Abutments, Retaining Walls	C.Y.	39
502.23	Structural Concrete, Piers	C.Y.	3
502.260	Structural Concrete Roadway and Parapet on Steel Bridge. (400.34 C.Y.)	L.S.	1
503.14	Epoxy Coated Reinf. Steel- Fabricated & Delivered	Lb.	126,000
503.15	Epoxy Coated Reinf. Steel- Placing	Lb.	126,000
504.70	Structural Steel- Fabricated & Delivered (4,473)	L.S.	1
504.721	Jacking Existing Superstructure - Rte 26	L.S.	1
505.081	Stud Welded Shear Connectors (230 Each)	L.S.	1
507.092	Aluminum Bridge Railing, 2 Bar	L.F.	709
508.13	Membrane Waterproofing (1278 S.Y.) - (Rte. 26)	L.S.	1
514.06	Curing Box for Concrete Cylinders	EA.	1
515.20	Protective Coating for Concrete Surfaces	S.Y.	608
515.201	Concrete Protective Coating	S.Y.	553
520.22	Expansion Device - Compression Seal	EA.	2
523.103	Pot Bearings	EA.	25
609.15	Sloped Curb Type 1	L.F.	16



ROUTE 26

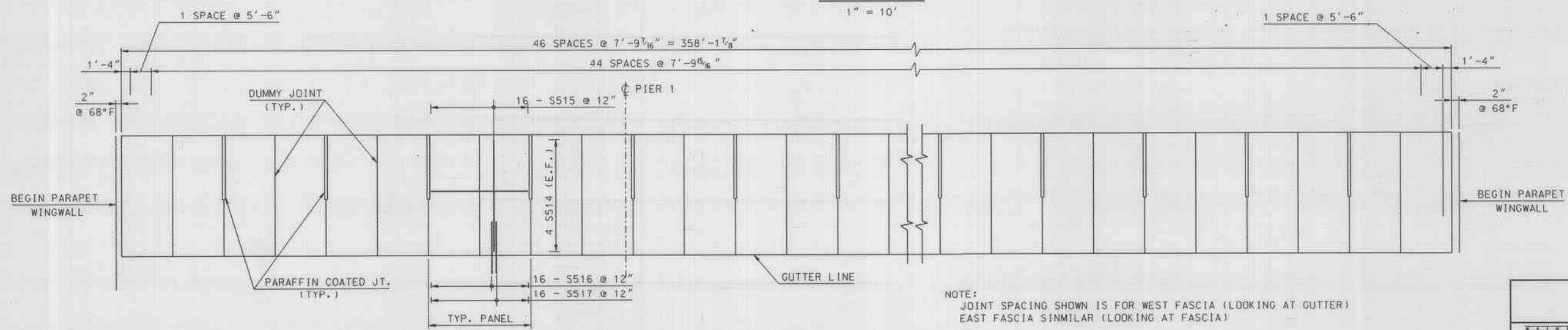
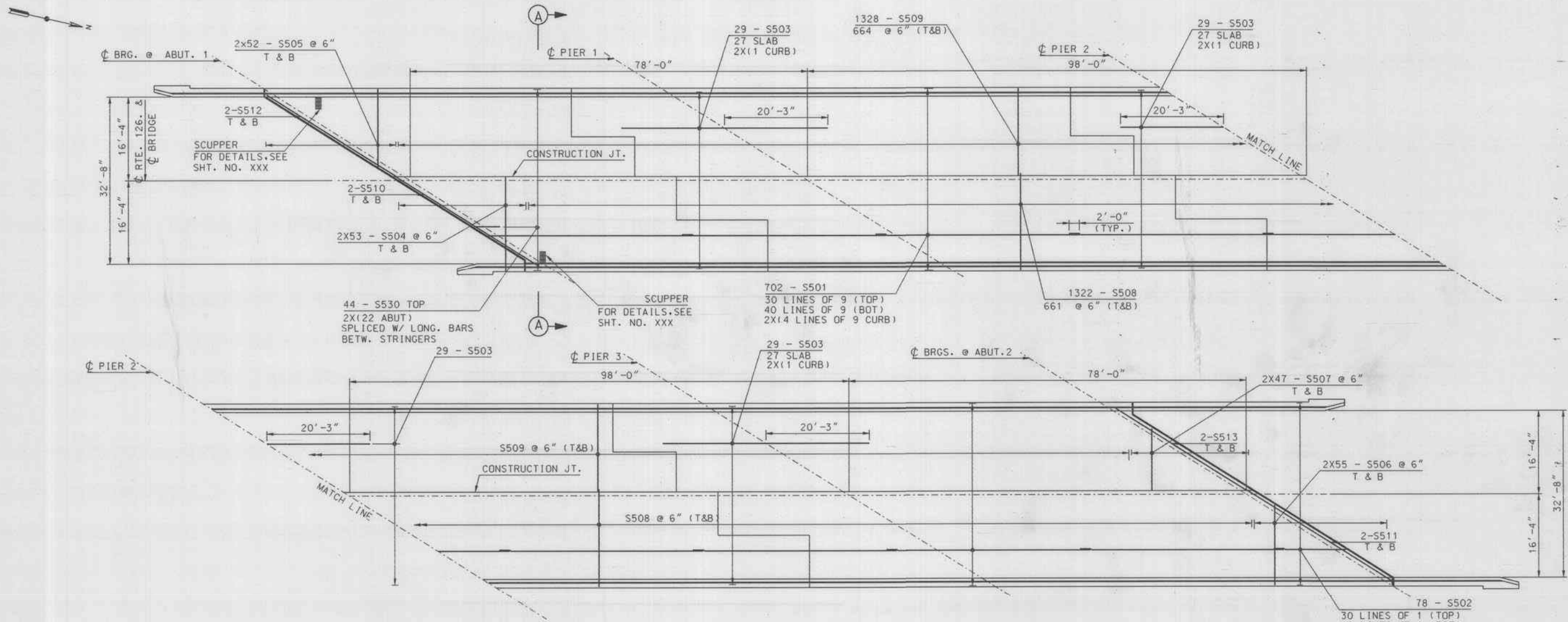
DECK PLACEMENT DETAILS

N.T.S.

Design Placed by: 11/13/2009 9:47:10 AM Printed on: 11/13/2009 9:53:00 AM Generated by: PLS

					By	Date
			Designed			
			Drawn			
			Checked			
No.	Revision	By	Date	In Charge Of:		

Maine Turnpike Authority Maine Turnpike	
	GENERAL NOTES, SPECIFICATIONS, QUANTITIES & DECK PLACEMENT DETAILS
	HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS
Contract 94.6	Sheet No. 51 20 of 35



NOTE:
 JOINT SPACING SHOWN IS FOR WEST FASCIA (LOOKING AT GUTTER)
 EAST FASCIA SIMILAR (LOOKING AT FASCIA)

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 Maine Turnpike

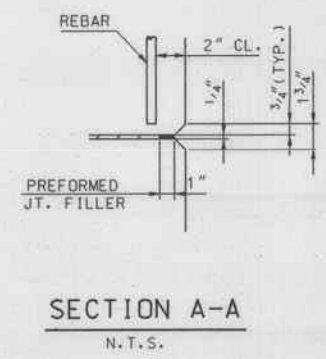
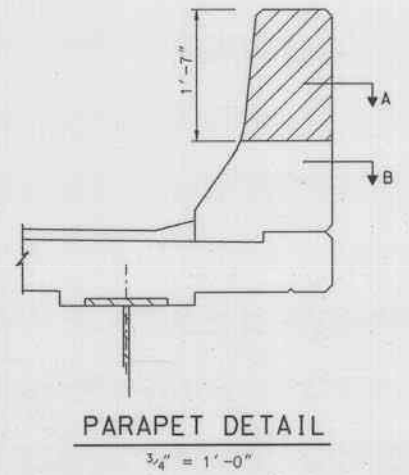
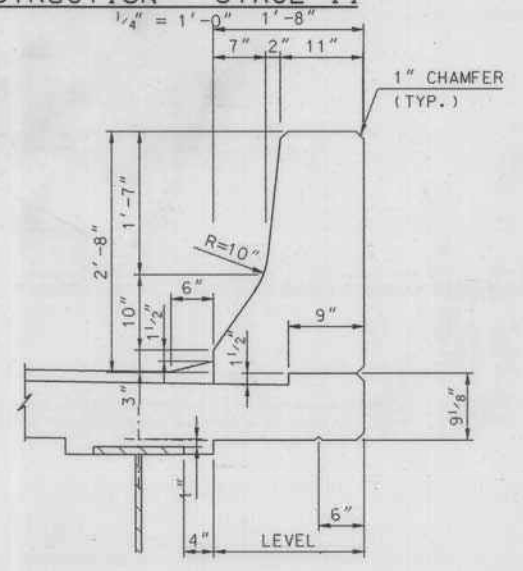
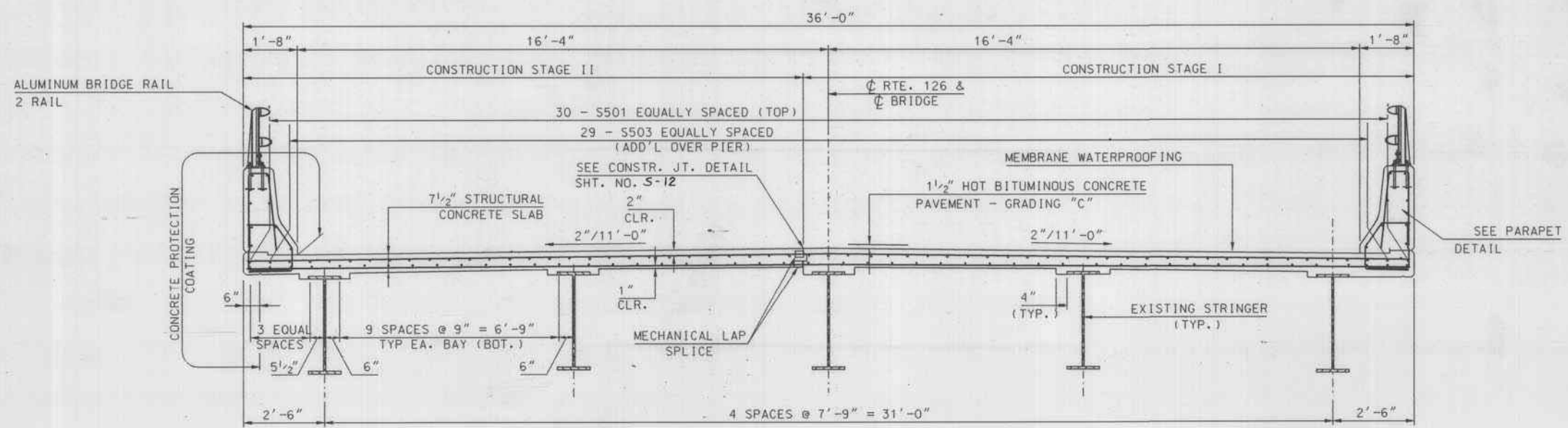
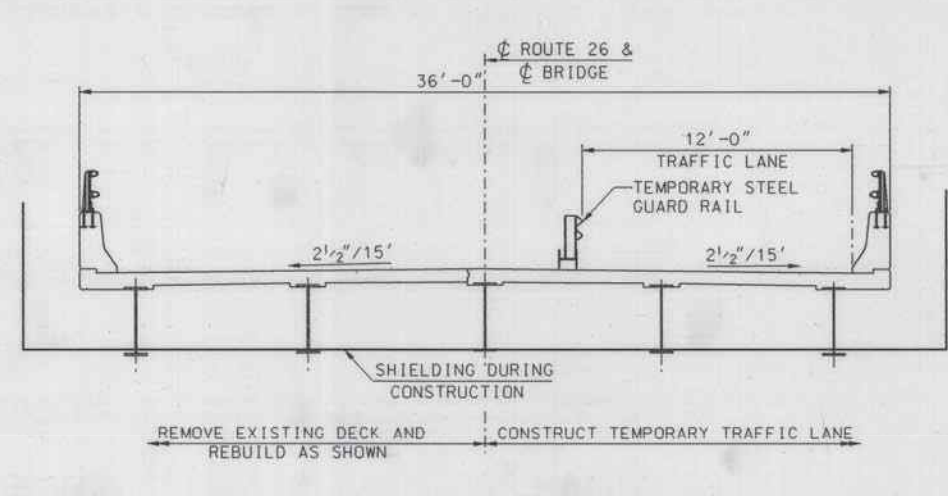
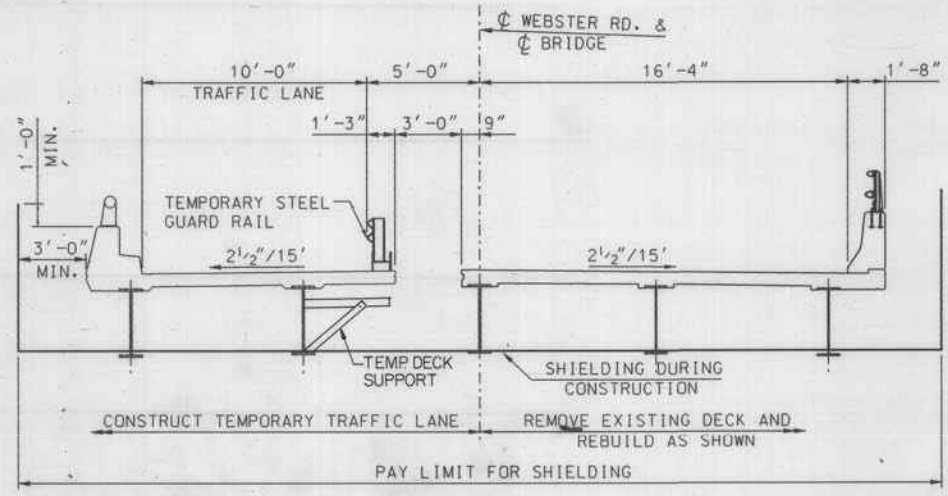
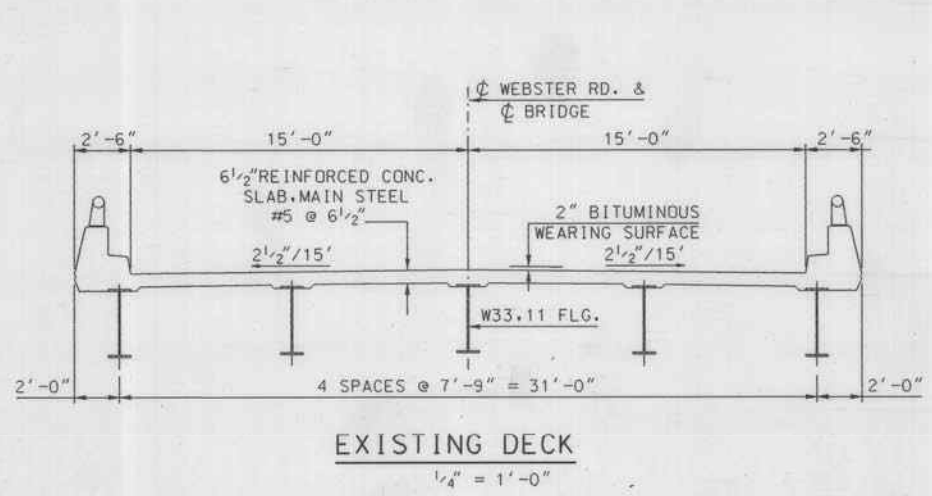
ROUTE 26 OVER MAINE TURNPIKE DECK REINFORCING

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 94.6
 Sheet No. 52
 21 of 35

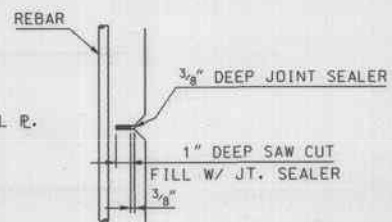
By	Date
Designed	
Drawn	E.B. 4/94
Checked	
In Charge Of:	

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 Generated by: E.G.



NOTES:

1. CONC. PLACED SIMULTANEOUSLY ON BOTH SIDES OF JOINT.
2. PREFORMED JOINT FILLER MAY BE SUPPORTED WITH A THIN STEEL P. REMOVE P CAREFULLY WHILE THE CONCRETE IS PLASTIC.



NOTE:
SECTION B ALSO APPLIES TO DUMMY JOINT LOCATIONS.

- NOTES:**
1. FOR GENERAL NOTES, SEE SH. NO. S-1
 2. FOR RAILING DETAILS, SEE SH. NO. S-12
 3. FOR BRIDGE RAILING DETAILS, SEE SH. NO. S-14
 4. FOR CONSTRUCTION JOINT DETAIL, SEE SH. NO. S-3
 5. MECHANICAL COUPLING DEVICE SHALL DEVELOPE A MINIMUM OF 125 PERCENT OF YIELD STRENGTH OF REINFORCEMENT STEEL. THE COUPLING DEVICES SHALL BE PROTECTED FROM CORROSION BY EITHER GALVANIZING OR EPOXY COATING.

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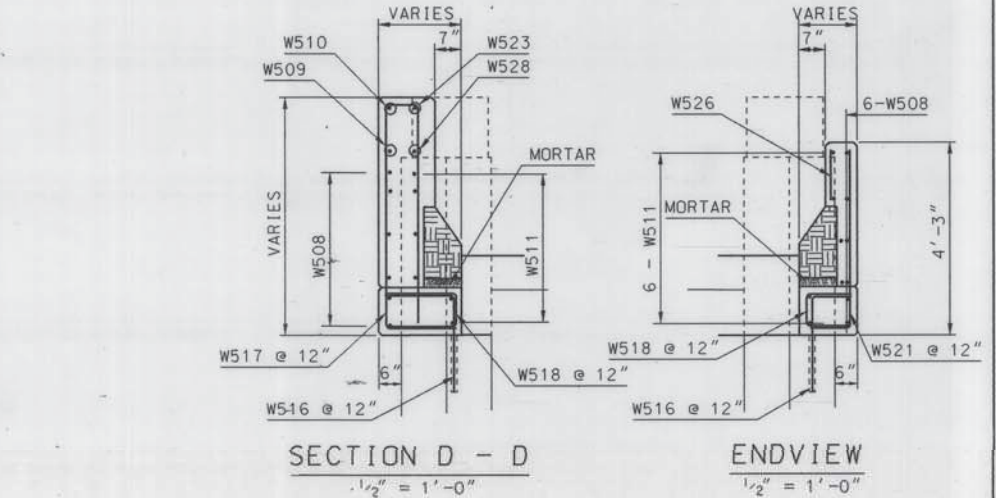
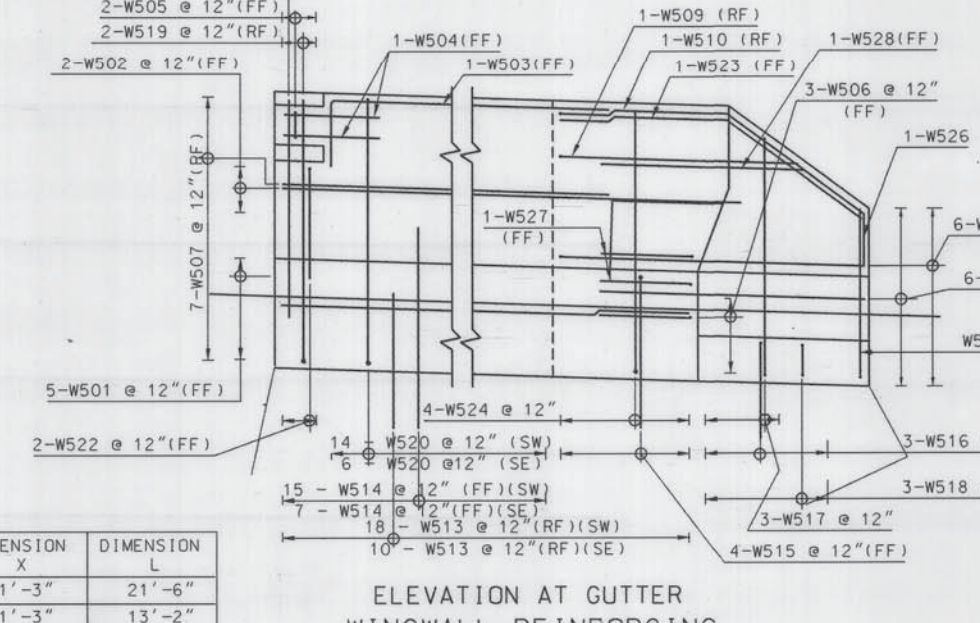
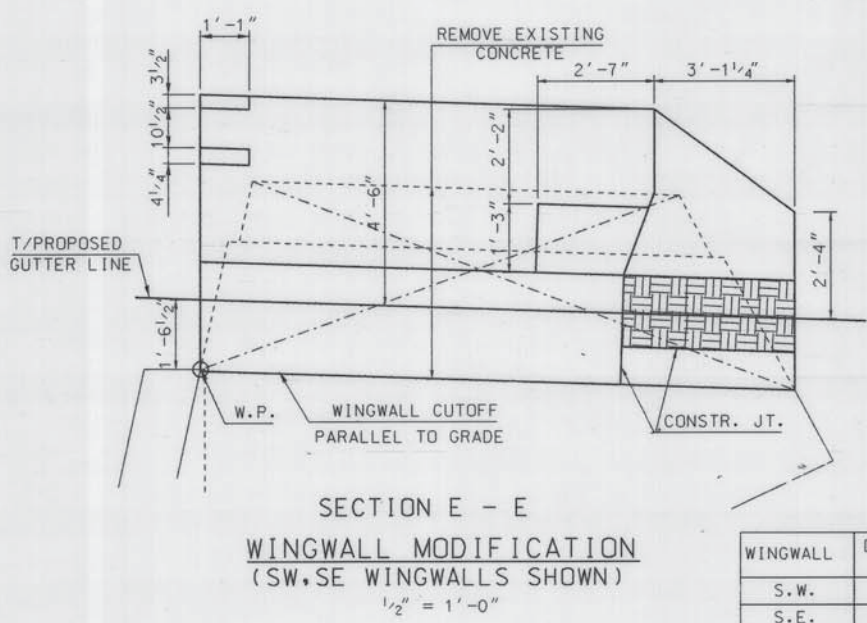
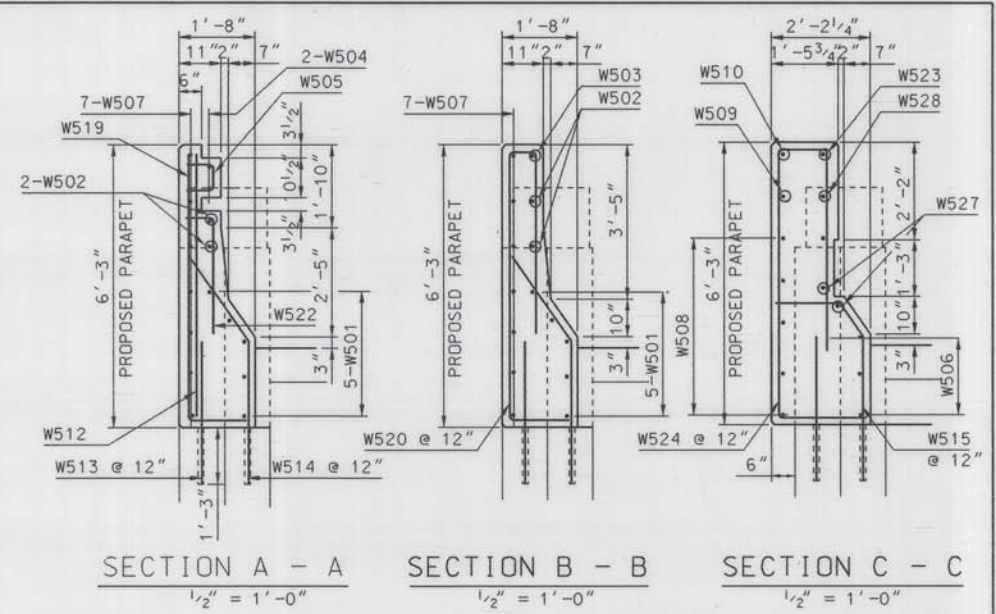
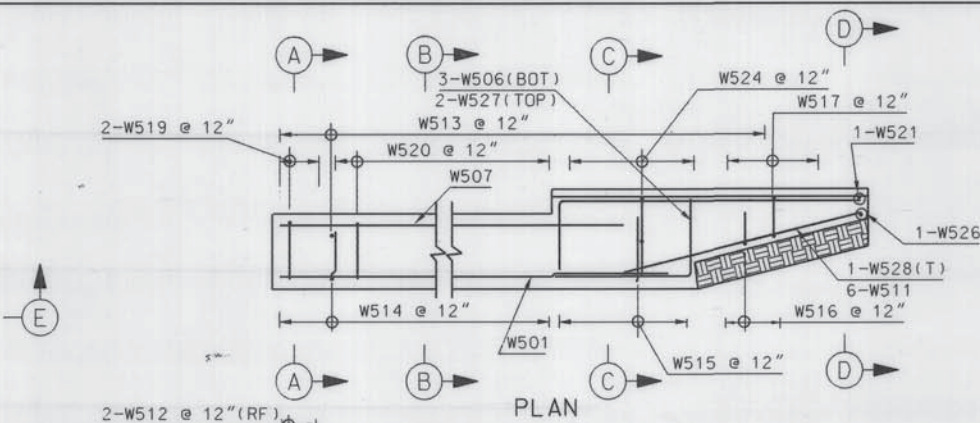
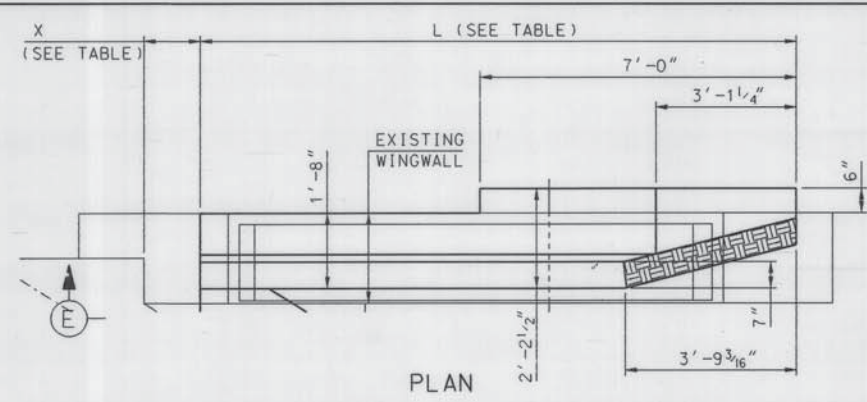
ROUTE 26 OVER MAINE TURNPIKE CONSTR. STAGING

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HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

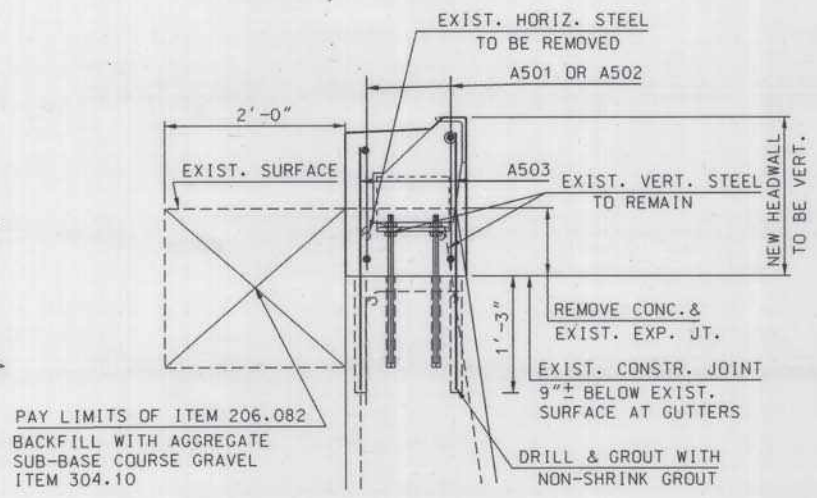
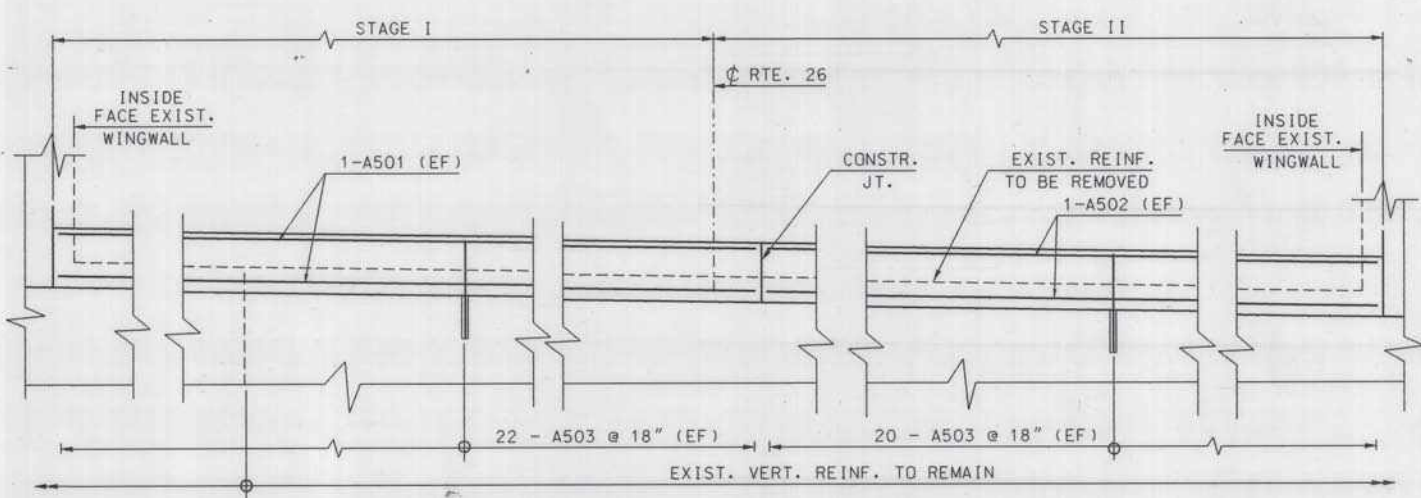
Contract 94.6
Sheet No. S-3
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No.	Revision	By	Date	In Charge Of:
REISSUED	CFM	5/94		

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Generated by: E.G.



WINGWALL	DIMENSION X	DIMENSION L
S.W.	1'-3"	21'-6"
S.E.	1'-3"	13'-2"



- NOTE:
1. FOR REINFORCING SCHEDULE, SEE SHEET S-9 & S-10.
 2. FOR GRANITE STONE CURB DETAIL, SEE SHEET S-12.
 3. DRILLING AND GROUTING OF REBARS TO BE PAID FOR UNDER STRUCTURAL CONCRETE ABUTMENTS, ITEM 502.21f.

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BACKWALL MODIFICATIONS AS SHOWN

No.	Revision	By	Date	In Charge Of:
		Designed		
		Drawn	E.G. 4/94	
		Checked		

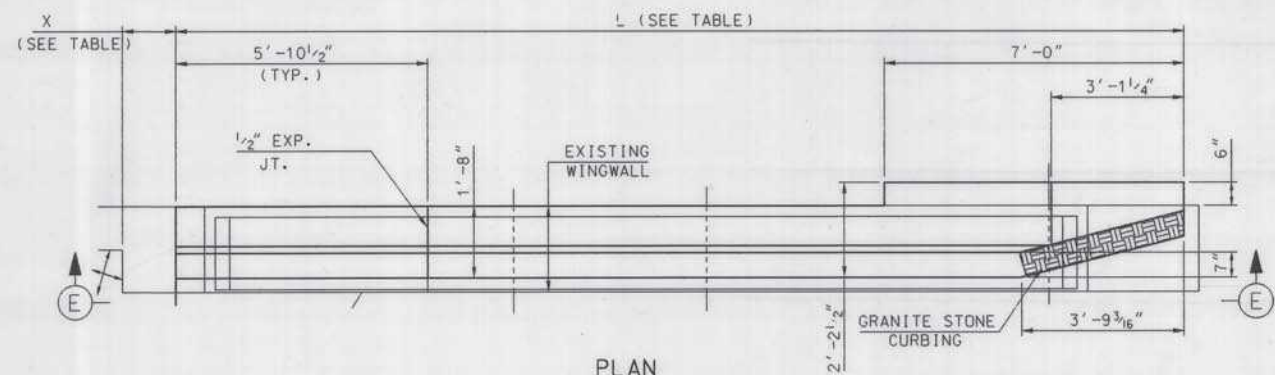
Maine Turnpike Authority
Maine Turnpike

ROUTE 26 OVER
MAINE TURNPIKE
WINGWALL DETAILS

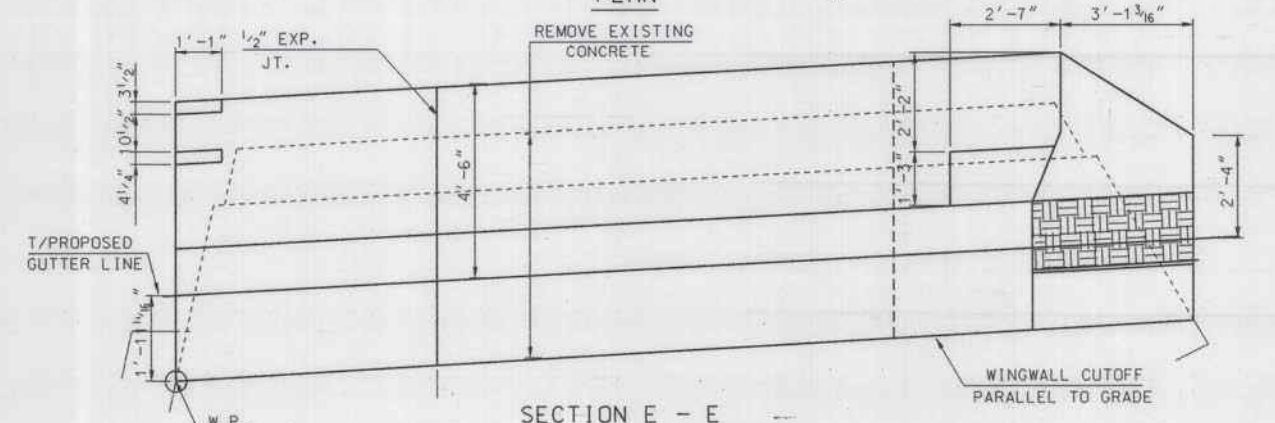
HNTB
HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

Contract 94.6

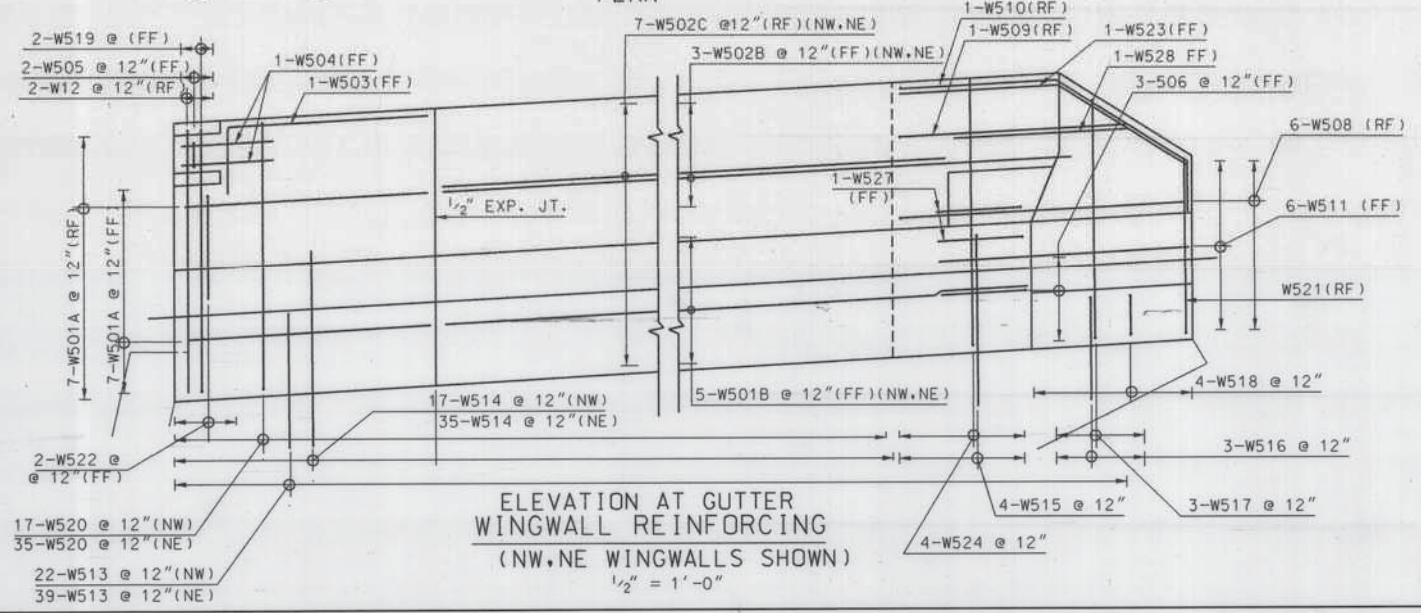
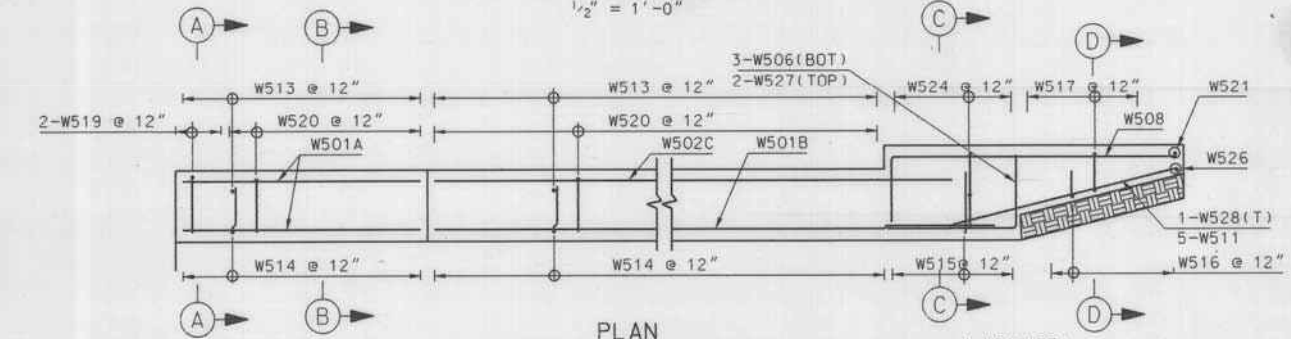
Sheet No. S-4
23 of 35



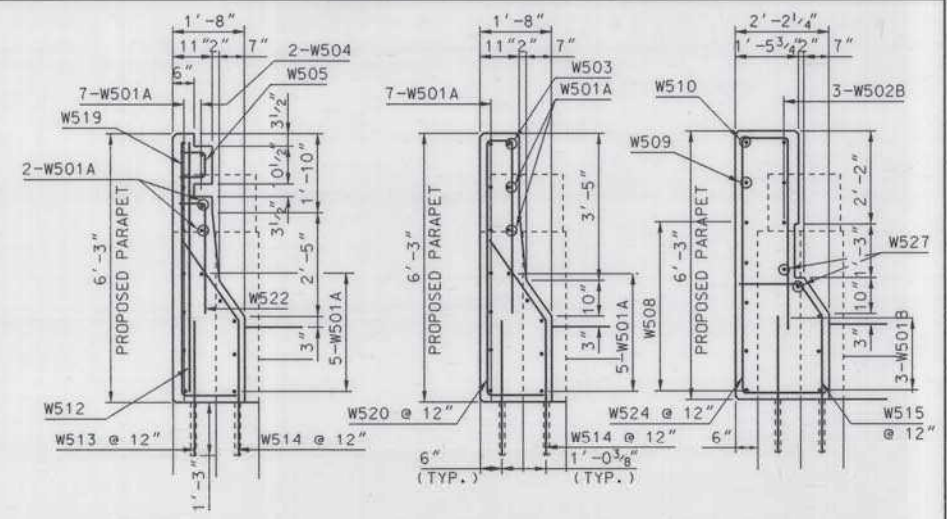
WINGWALL	DIMENSION X	DIMENSION L
N.W.	1'-3"	23'-6"
N.E.	1'-3"	40'-5"



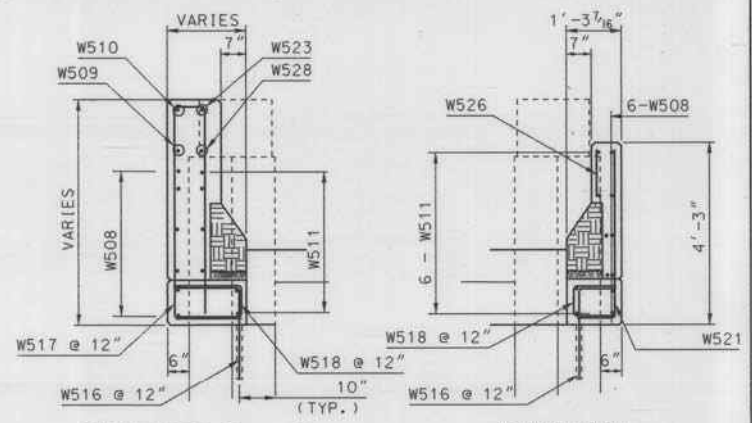
SECTION E - E
WINGWALL MODIFICATION
(NW, NE WINGWALLS SHOWN)
1/2" = 1'-0"



ELEVATION AT GUTTER
WINGWALL REINFORCING
(NW, NE WINGWALLS SHOWN)
1/2" = 1'-0"



SECTION A - A
SECTION B - B
SECTION C - C



SECTION D - D
ENDVIEW

- NOTE:
- FOR REINFORCING SCHEDULE, SEE SHEET S-9 & S-10.
 - FOR GRANITE STONE CURB DETAIL, SEE SHEET S-12.
 - DRILLING AND GROUTING OF REBARS TO BE PAID FOR UNDER STRUCTURAL CONCRETE ABUTMENTS, ITEM 502.21I.

Maine Turnpike Authority
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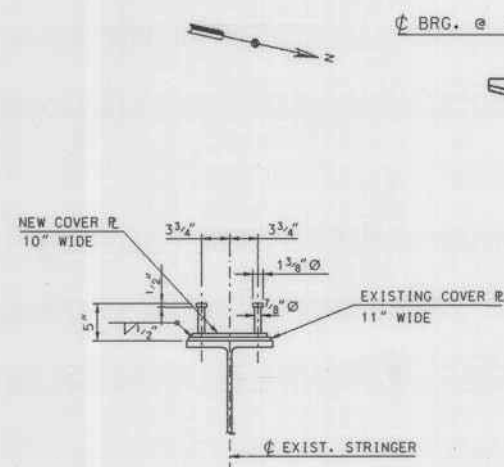
ROUTE 26
OVER
MAINE TURNPIKE
WINGWALL DETAILS

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

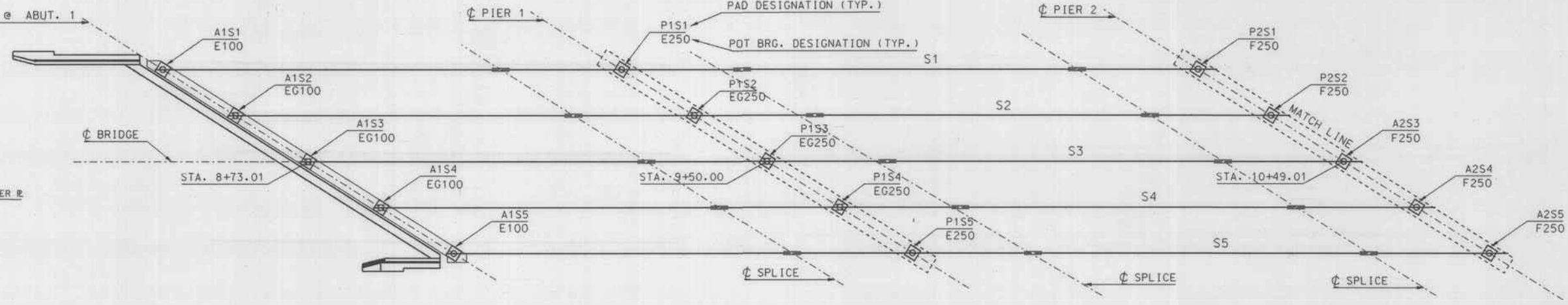
Contract 94.6 Sheet No. S-5
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No.	Revision	By	Date	In Charge Of:

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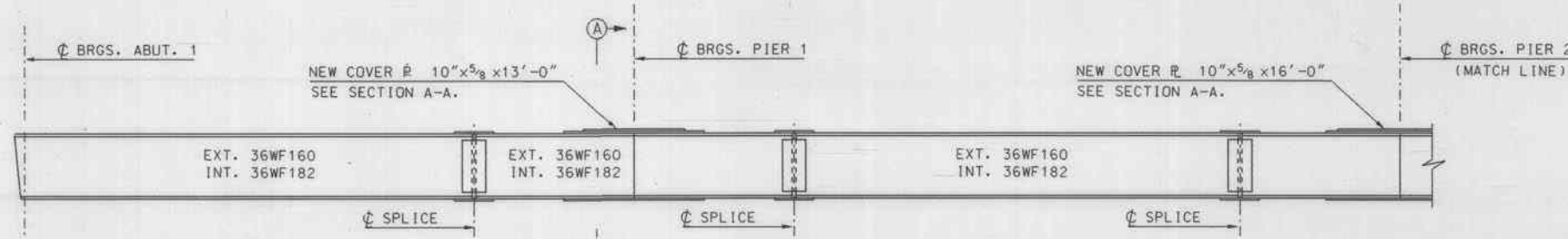
SECTION A-A
SCALE: 1" = 1'-0"



FRAMING PLAN
1" = 10'-0"

NOTES:

- NEW SHEAR STUDS REQUIRED ONLY ON NEW COVER PL.
- EXISTING SHEAR LUGS TO BE REMOVED AT EXISTING 11" WIDE TOP COVER PLATES AND NEW 10" WIDE COVER PLATES TO BE WELDED TO EXISTING COVER PLATES AND 2 - 3/8" STUDS END WELDED TO NEW COVER PLATES @ 24" MAX.



TYPICAL BEAM ELEVATION
N.T.S.

NOTES:

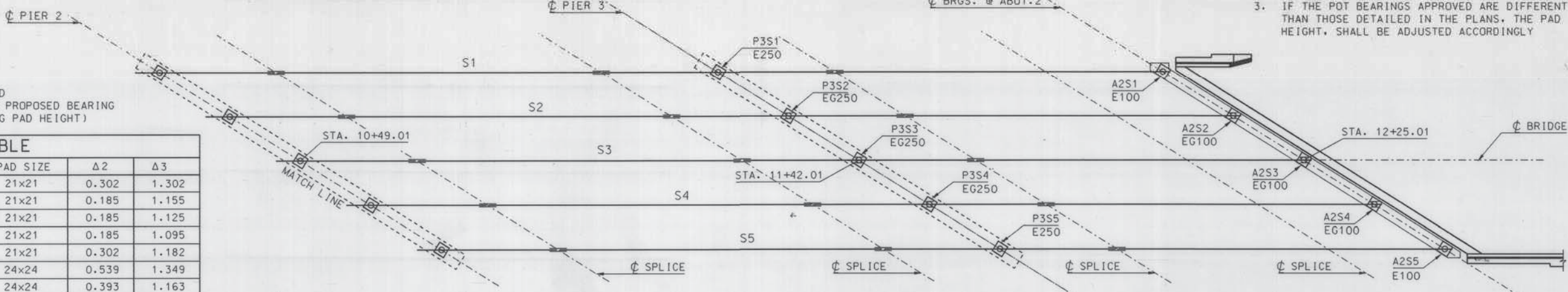
- SEE POT BRG. DETAILS, SEE SHEET NO. S11
- ALL PAD REINFORCEMENT IS TO BE EPOXY COATED.
- IF THE POT BEARINGS APPROVED ARE DIFFERENT THAN THOSE DETAILED IN THE PLANS, THE PAD HEIGHT, SHALL BE ADJUSTED ACCORDINGLY

NOTES:

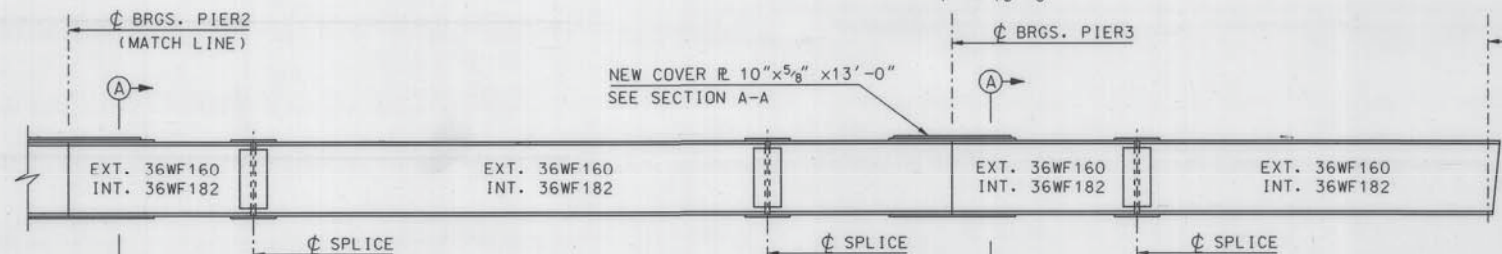
- Δ1 = AMOUNT THE ROADWAY IS TO BE RAISED
- Δ2 = THE DIFFERENCE BETWEEN EXISTING & PROPOSED BEARING
- Δ3 = TOTAL Δ1+ Δ2 (INCREASE IN BEARING PAD HEIGHT)

PAD TABLE

LOCATION	Δ1 (FT.)	MASONRY R.	PAD SIZE	Δ2	Δ3
A1S1	1.00	17 3/4 x 17 3/4 x 1 3/4	21x21	0.302	1.302
A1S2	0.97	17 3/4 x 17 3/4 x 1 3/4	21x21	0.185	1.155
A1S3	0.94	17 3/4 x 17 3/4 x 1 3/4	21x21	0.185	1.125
A1S4	0.91	17 3/4 x 17 3/4 x 1 3/4	21x21	0.185	1.095
A1S5	0.88	17 3/4 x 17 3/4 x 1 3/4	21x21	0.302	1.182
P1S1	0.81	21 1/4 x 21 1/4 x 1 3/4	24x24	0.539	1.349
P1S2	0.77		24x24	0.393	1.163
P1S3	0.74		24x24	0.393	1.133
P1S4	0.71		24x24	0.393	1.103
P1S5	0.68		24x24	0.539	1.219
P2S1	0.56		24x24	0.214	0.774
P2S2	0.53		24x24	0.214	0.744
P2S3	0.50		24x24	0.214	0.714
P2S4	0.47		24x24	0.214	0.684
P2S5	0.44		24x24	0.214	0.654
P3S1	0.32		24x24	0.539	0.859
P3S2	0.29		24x24	0.393	0.683
P3S3	0.26		24x24	0.393	0.653
P3S4	0.23		24x24	0.393	0.623
P3S5	0.19	21 1/4 x 21 1/4 x 1 3/4	24x24	0.539	0.729
A2S1	0.12	17 3/4 x 17 3/4 x 1 3/4	21x21	0.302	0.422
A2S2	0.09	17 3/4 x 17 3/4 x 1 3/4	21x21	0.185	0.275
A2S3	0.06	17 3/4 x 17 3/4 x 1 3/4	21x21	0.185	0.245
A2S4	0.03	17 3/4 x 17 3/4 x 1 3/4	21x21	0.185	0.215
A2S5	0.00	17 3/4 x 17 3/4 x 1 3/4	21x21	0.302	0.302



FRAMING PLAN
1" = 10'-0"



TYPICAL BEAM ELEVATION
N.T.S.

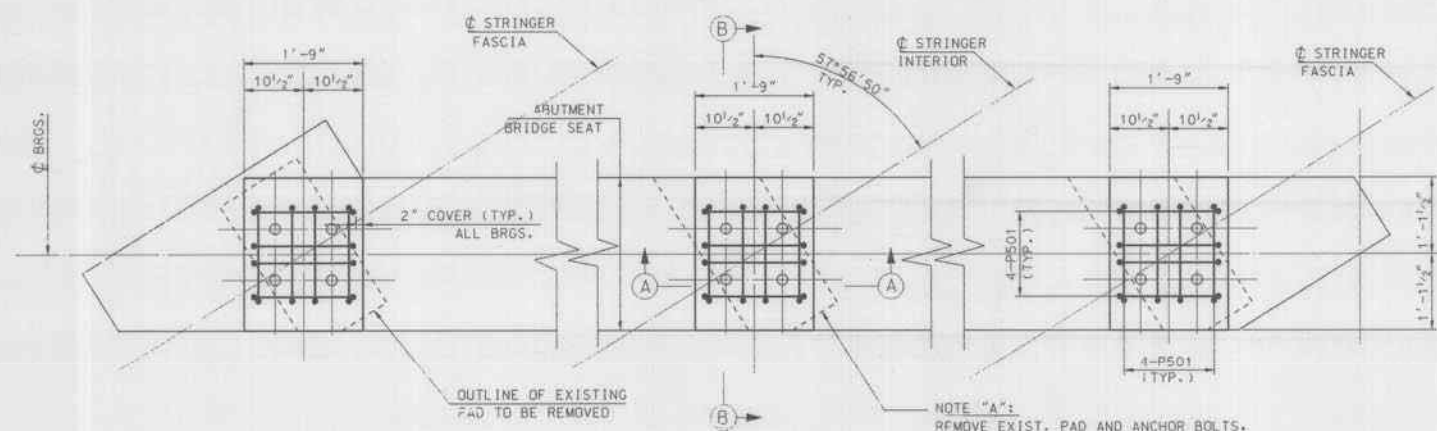
Maine Turnpike Authority
Maine Turnpike
ROUTE 26
OVER
MAINE TURNPIKE
FRAMING PLAN

HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

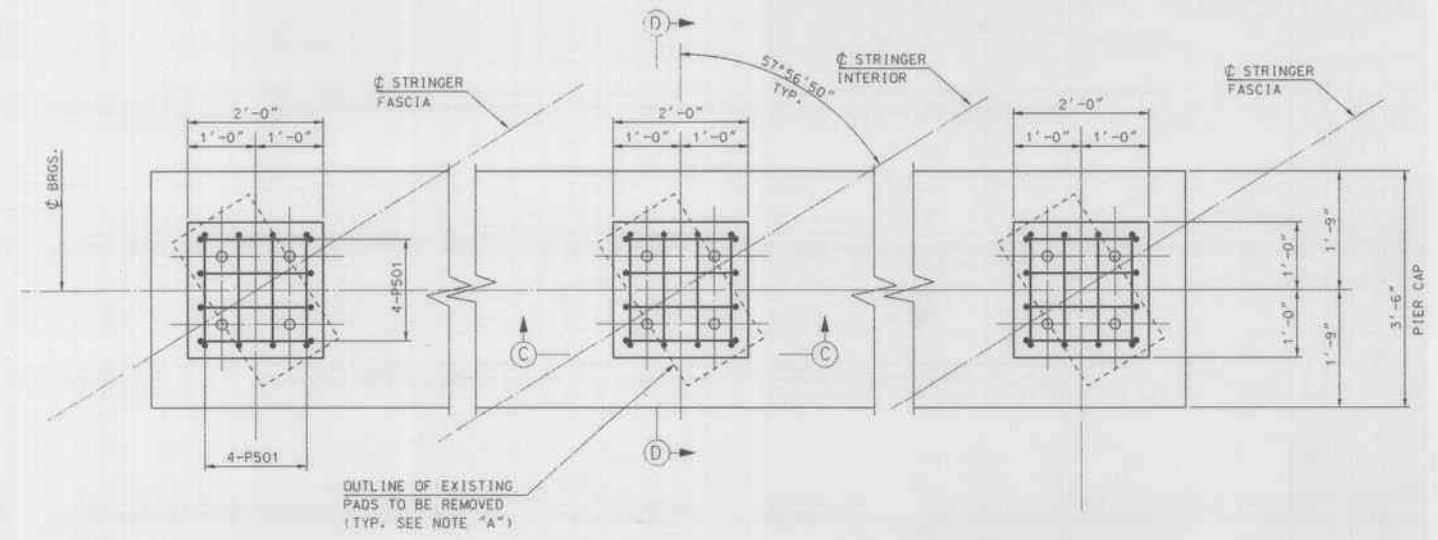
Contract 94.6
Sheet No. S6
25 of 35

By	Date
Designed JAE	4/94
Drawn EB	4/94
Checked AEM	4/94
In Charge Of:	

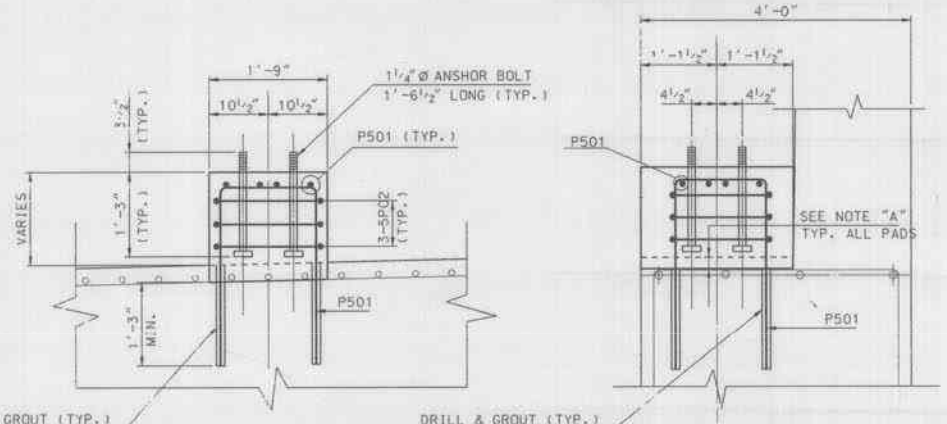
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PAD PLAN (ABUTMENTS)
SCALE: 3/4" = 1'-0"

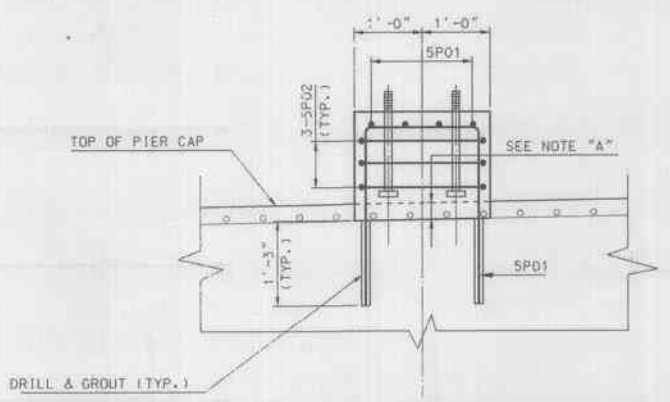


PAD PLAN (PIERS)
SCALE: 3/4" = 1'-0"

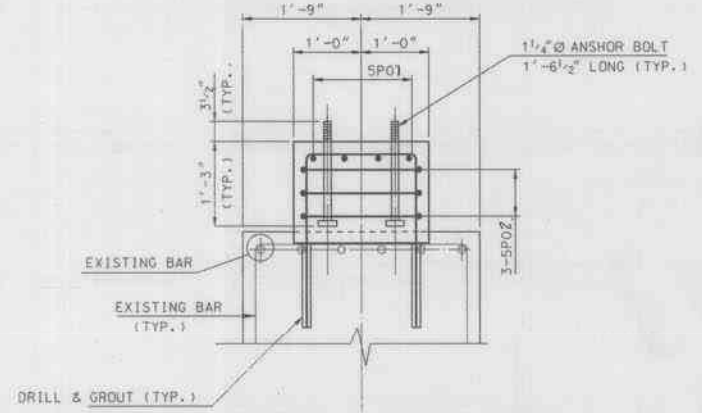


SECTION A-A (ABUTMENT 1)
SCALE: 3/4" = 1'-0"

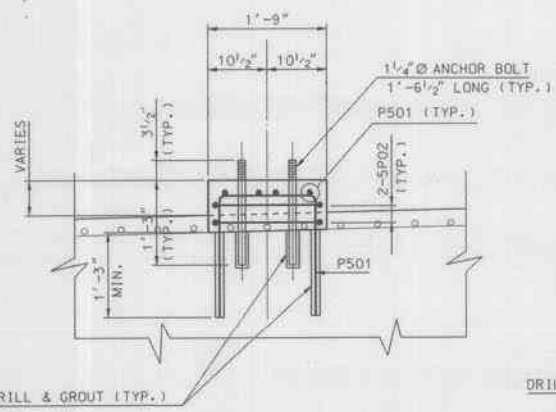
SECTION B-B (ABUTMENT 1)
SCALE: 3/4" = 1'-0"



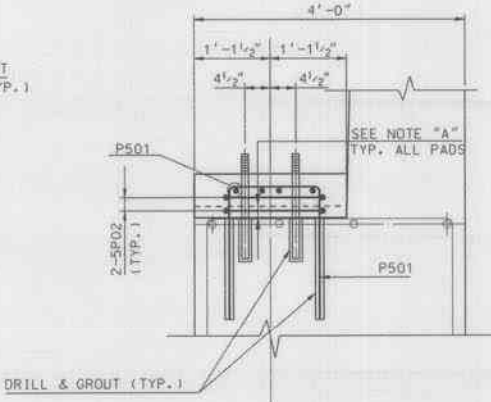
SECTION C-C (PIER 1)
SCALE: 3/4" = 1'-0"



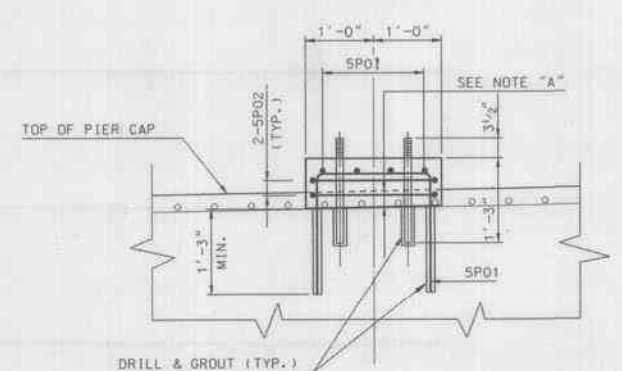
SECTION D-D (PIER 1)
SCALE: 3/4" = 1'-0"



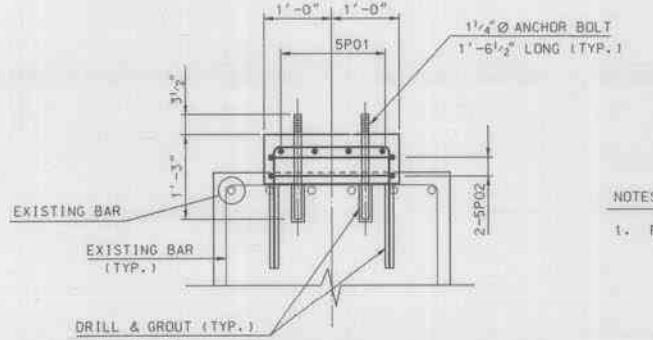
SECTION A-A (ABUTMENT 2)
SCALE: 3/4" = 1'-0"



SECTION B-B (ABUTMENT 2)
SCALE: 3/4" = 1'-0"



SECTION C-C (PIER 2 & 3)
SCALE: 3/4" = 1'-0"



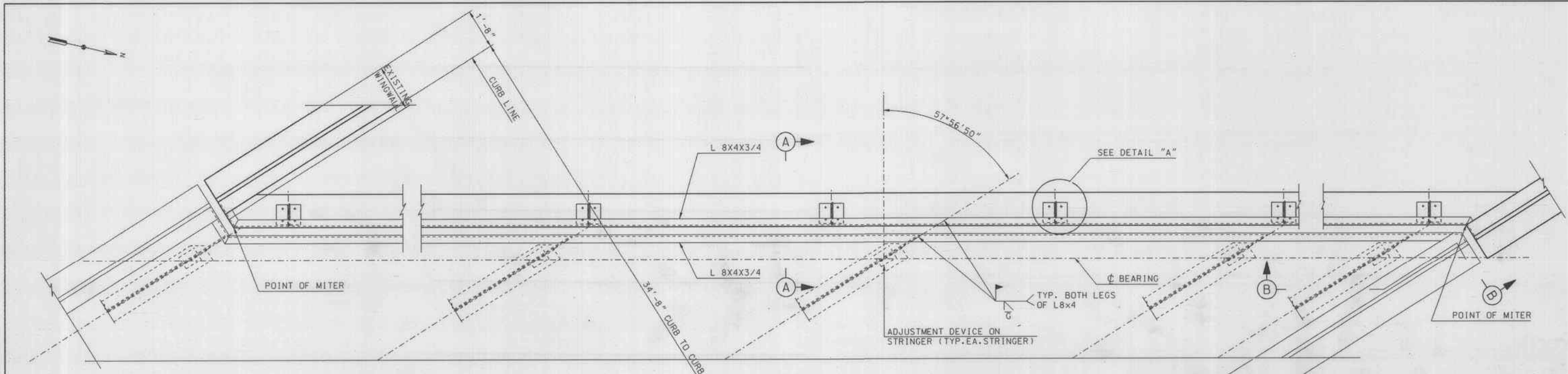
SECTION D-D (PIER 2 & 3)
SCALE: 3/4" = 1'-0"

- NOTES:
1. FOR PAD LOCATIONS AND DESIGNATIONS SEE SHEET S6.

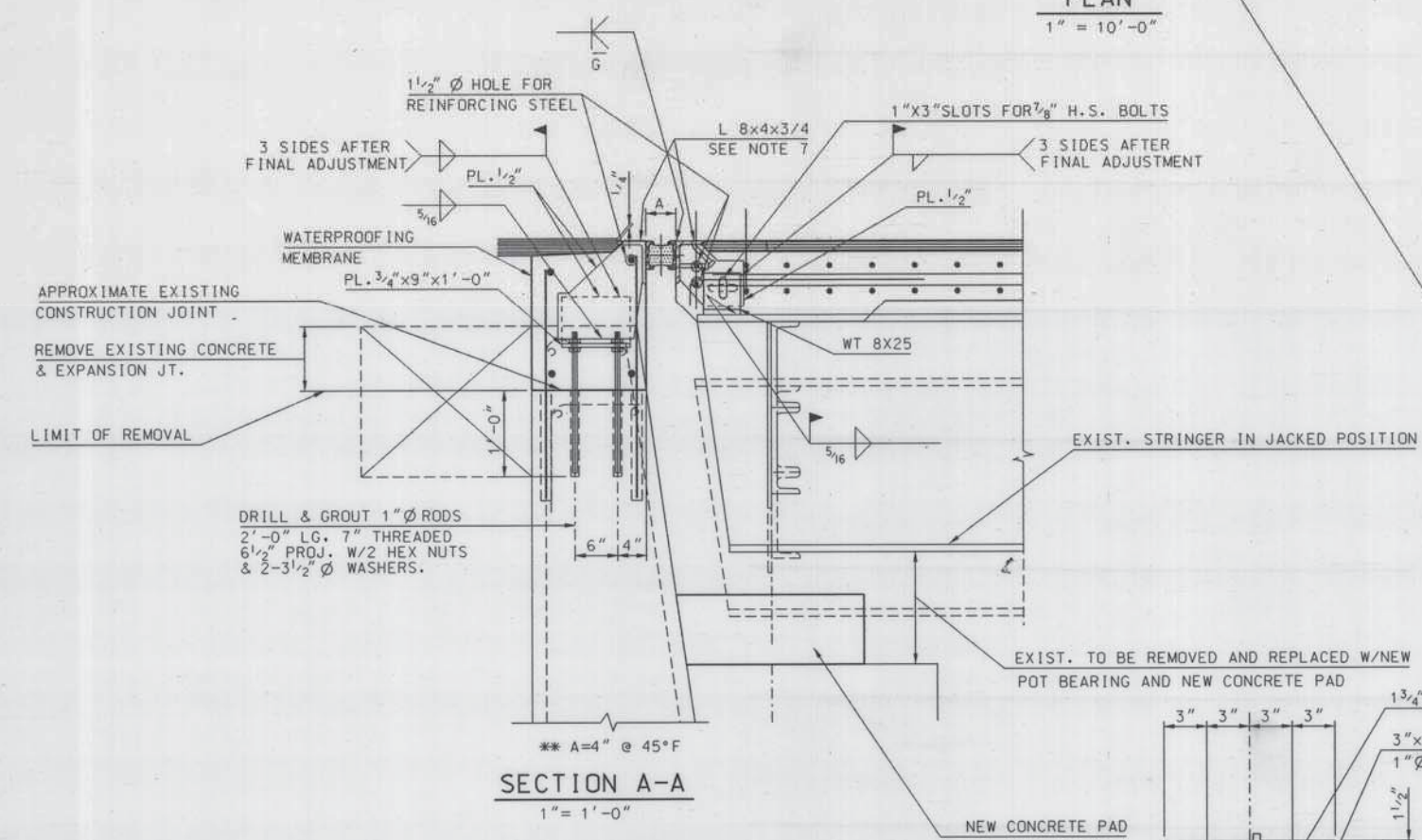
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Maine Turnpike Authority Maine Turnpike	
ROUTE 26 OVER MAINE TURNPIKE PAD DETAILS	
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	
Contract 94.6	
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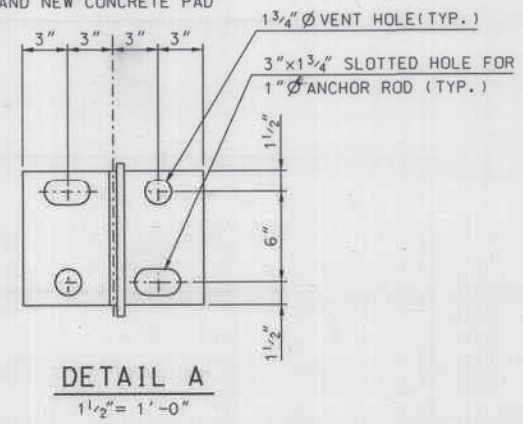
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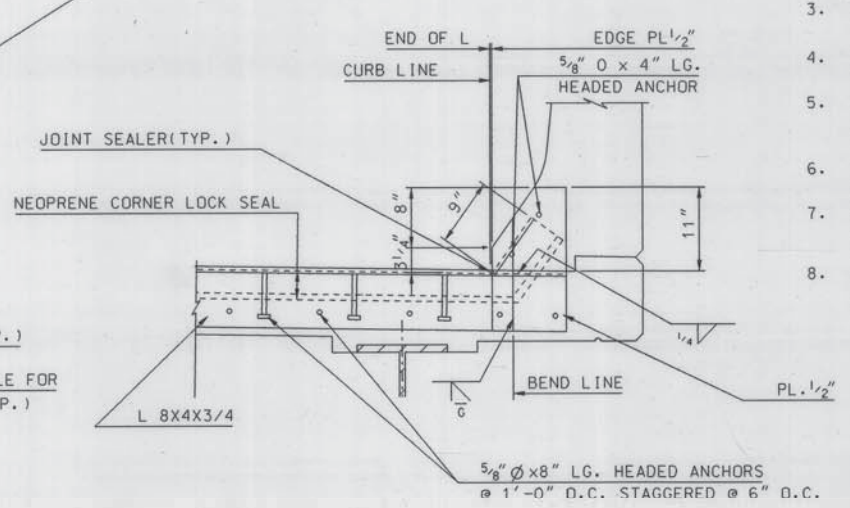
PLAN
1" = 10'-0"



SECTION A-A
1" = 1'-0"



DETAIL A
1 1/2" = 1'-0"



SECTION B-B
1" = 1'-0"

- NOTES:**
- SHOP DRAWINGS SHALL BE SUBMITTED FOR EXPANSION DEVICE.
 - EXPANSION DEVICE ASSEMBLY SHALL BE SECURED TO THE STRINGER AND/OR ANCHOR BOLTS WHEN THE AMBIENT TEMPERATURE IS BETWEEN 40°F AND 80°F. SETTING SCHEDULE FOR DIMENSION A SHALL BE SUPPLIED BY THE MANUFACTURER OF THE SEAL.
 - NEOPRENE CORNER LOCK SEAL TO BE INSTALLED IN ONE PIECE.
 - ROADWAY SURFACE OF THE ARMORED DEVICES TO BE PAINTED IN THE FIELD.
 - THE FABRICATORS ATTENTION IS DIRECTED TO THE NECESSITY OF FABRICATING AND INSTALLING THE DEVICE IN TWO SECTIONS.
 - WELDS IN CONTACT WITH LOCK SEAL TO BE GROUND SMOOTH.
 - PROVIDE 3/8" DIA. VENT HOLES IN HORIZONTAL LEG OF 8x4 ANGLE AT 1'-0" O.C. MAX.
 - DIRECTION AND LOCATION OF FIELD SPLICES MAY BE ADJUSTED IF REQUIRED TO FACILITATE CONSTRUCTION.

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ROUTE 26 OVER MAINE TURNPIKE EXP. JT. DETAILS

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract	94.6	Sheet No.	58
			27 of 35

No.	Revision	By	Date	In Charge Of:
		Designed	JAE 4/94	
		Drawn	EG 4/94	
		Checked	AEM 4/94	
		By	Date	

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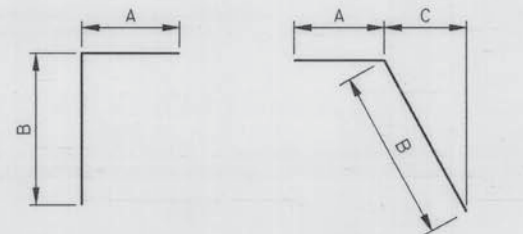
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					A	B	C	D		
DECK SLAB										
S501	5	702	40'-0"	STR						Long. T & B
S502		78	14'-2"	STR						Long. T & B
S503		87	40'-6"	STR						Long. @ Piers Top
S504		106	VARIES 0'-9" to 19'-1"	STR						Transv. @ Abut. T & B
S505		104	VARIES 1'-4" to 17'-1"	STR						Transv. @ Abut. T & B
S506		110	VARIES 1'-8" to 18'-3"	STR						Transv. @ Abut. T & B
S507		94	VARIES 0'-6" to 17'-1"	STR						Transv. @ Abut. T & B
S508		1322	19'-1"	STR						Transv. T & B
S509		1328	17'-0"	STR						Transv. T & B
S510		2	33'-0"	STR						Transv. @ Abut. T & B
S511		2	34'-0"	STR						Transv. @ Abut. T & B
S512		2	29'-10"	STR						Transv. @ Abut. T & B
S513		2	30'-2"	STR						Transv. @ Abut. T & B
S514		832	15'-3"	STR						Parapet
S515		1664	5'-3"	6	2'-4"	0'-6 3/4"	2'-4"	0'-3 1/4"		Parapet
S516		1664	4'-6"	30	1'-3"	1'-7"	0'-10"	0'-10"		Parapet
S517		1664	2'-8"	4	1'-3"	1'-5"				Parapet
S530	5	44	5'-5"	4	5'-0"	0'-5"				Long. @ Abut. T

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
END POST N.E.. WINGWALL										
W501A	5	14	5'-6"	STR						Horiz.
W501B		5	30'-10"	STR						Horiz.
W502B		3	31'-6"	STR						Horiz.
W502C		7	28'-7"	STR						Horiz.
W503		1	6'-3"	4	1'-10"	4'-5"				Horiz.
W504		2	2'-2"	STR						Horiz.
W505		2	1'-9"	35	0'-7"	0'-7"				Vert.
W506		3	3'-10"	4	1'-10"	2'-0"				Horiz.
W508		6	8'-6"	4	6'-8"	1'-10"				Horiz.
W509		1	6'-1"	4	5'-0"	1'-1"				Horiz.
W510		1	8'-3"	45	1'-1"	3'-9"	3'-5"			Horiz.
W511		6	5'-7"	STR						Horiz.
W512		2	5'-6"	STR						Vert.
W513		39	2'-6"	STR						Vert. Drilled Dowel
W514		35	5'-0"	5	3'-0"	2'-0"				Vert. Drilled Dowel
W515		4	5'-3"	31	3'-0"	1'-0"	1'-3"			Vert. Drilled Dowel
W516		3	VARIES 2'-10" to 3'-8"	4	VARIES 0'-10" to 1'-8"					Vert. Drilled Dowel
W517		3	VARIES 9'-8" to 13'-3"	17	VARIES 0'-11" to 1'-10"	VARIES 4'-6" to 5'-11"	VARIES 0'-7" to 1'-0"	VARIES 3'-8" to 4'-7"		Vert.
W518		4	VARIES 3'-4" to 5'-2"	35	VARIES 0'-11" to 1'-10"	1'-6"				Vert.
W519		2	7'-3"	4	1'-4"	5'-11"				Vert.
W520		35	10'-9"	17	1'-4"	5'-11"	0'-7"	4'-0"		Vert.
W521		1	4'-4"	4	3'-11"	0'-11"				Vert.
W522		2	3'-3"	4	0'-7"	2'-8"				Vert.
W523		1	7'-2"	5	3'-9"	3'-5"	1'-10"			Horiz.
W524		5	12'-10"	17	1'-10"	5'-11"	1'-1"	4'-0"		Vert.
W526		1	1'-1"	STR						Vert.
W527		2	VARIES 3'-0" to 3'-3"	4	2'-0"	VARIES 1'-0" to 1'-3"				Horiz.
W528	5	1	3'-6"	STR						Horiz.

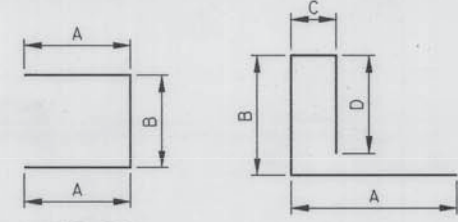
MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
END POST N.W. WINGWALL										
W501A	5	14	5'-6"	STR						Horiz.
W501B		5	13'-7"	STR						Horiz.
W502B		3	14'-6"	STR						Horiz.
W502C		7	12'-1"	STR						Horiz.
W503		1	6'-3"	4	1'-10"	4'-5"				Horiz.
W504		2	2'-2"	STR						Horiz.
W505		2	1'-9"	35	0'-7"	0'-7"				Vert.
W506		3	3'-10"	4	1'-10"	2'-0"				Horiz.
W508		6	8'-6"	4	6'-8"	1'-10"				Horiz.
W509		1	6'-1"	4	5'-0"	1'-1"				Horiz.
W510		1	8'-3"	45	1'-1"	3'-9"	3'-5"			Horiz.
W511		6	5'-7"	STR						Horiz.
W512		2	5'-6"	STR						Vert.
W513		22	2'-6"	STR						Vert. Drilled Dowel
W514		17	5'-0"	5	3'-0"	2'-0"				Vert. Drilled Dowel
W515		4	5'-3"	31	3'-0"	1'-0"	1'-3"			Vert. Drilled Dowel
W516		3	VARIES 2'-10" to 3'-8"	4	VARIES 0'-10" to 1'-8"					Vert. Drilled Dowel
W517		3	VARIES 9'-8" to 13'-3"	17	VARIES 0'-11" to 1'-10"	VARIES 4'-6" to 5'-11"	VARIES 0'-7" to 1'-0"	VARIES 3'-8" to 4'-7"		Vert.
W518		4	VARIES 3'-4" to 5'-2"	35	VARIES 0'-11" to 1'-10"	1'-6"				Vert.
W519		2	7'-3"	4	1'-4"	5'-11"				Vert.
W520		17	10'-9"	17	1'-4"	5'-11"	0'-7"	4'-0"		Vert.
W521		1	4'-4"	4	3'-11"	0'-11"				Vert.
W522		2	3'-3"	4	0'-7"	2'-8"				Vert.
W523		1	7'-2"	5	3'-9"	3'-5"	1'-10"			Horiz.
W524		5	12'-10"	17	1'-10"	5'-11"	1'-1"	4'-0"		Vert.
W526		1	1'-1"	STR						Vert.
W527		2	VARIES 3'-0" to 3'-3"	4	2'-0"	VARIES 1'-0" to 1'-3"				Horiz.
W528	5	1	3'-6"	STR						Horiz.

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
ABUTMENT 1 BRG. PADS										
P501	5	40	6'-6"	35	2'-7"	1'-4"				* Drilled & Grouted
P502	5	15	6'-7"	9	1'-5"	1'-5"				Horiz.
PIER 1 BRG. PADS										
P501	5	40	6'-9"	35	2'-7"	1'-7"				* Drilled & Grouted
P502	5	15	7'-7"	9	1'-8"	1'-8"				Horiz.
PIER 2 BRG. PADS										
P501	5	40	5'-9"	35	2'-1"	1'-7"				* Drilled & Grouted
P502	5	10	7'-7"	9	1'-8"	1'-8"				Horiz.
PIER 3 BRG. PADS										
P501	5	40	5'-9"	35	2'-1"	1'-7"				* Drilled & Grouted
P502	5	10	7'-7"	9	1'-8"	1'-8"				Horiz.
ABUTMENT 2 BRG. PADS										
P501	5	40	4'-8"	35	1'-8"	1'-4"				* Drilled & Grouted
P502	5	10	6'-7"	9	1'-5"	1'-5"				Horiz.

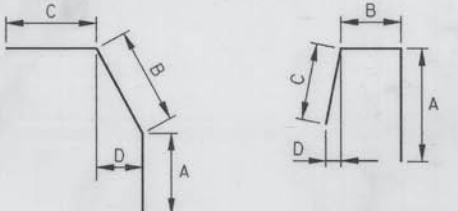
* P501 IS DETAILED FOR THE LONGEST BAR REQ'D. CONTRACTOR IS TO FIELD CUT AS REQ'D.



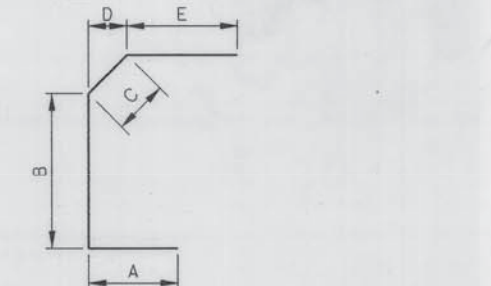
TYPE 4 TYPE 5



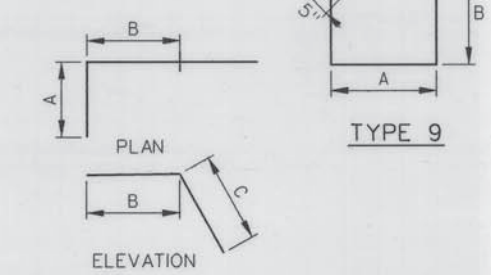
TYPE 35 TYPE 17



TYPE 31 TYPE 6



TYPE 30 TYPE 9



TYPE 45

Maine Turnpike Authority
Maine Turnpike

ROUTE 26
OVER
MAINE TURNPIKE
REINFORCING SCHEDULE

HNTB
HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

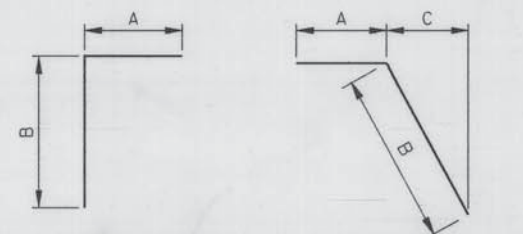
Contract No. 94.6 Sheet No. S-9
28 of 36

By	Date
Designed	
Drawn	
Checked	
In Charge Of:	

Design File Name: s:\100000\turnpike\refsch.dgn
Plotted on: 05-MAR-1994 12:34
Generated by: F.G.

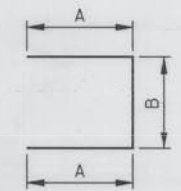
MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
END POST S.E. WINGWALL										
W501	5	5	9'-1"	STR						Horiz.
W502		2	10'-3"	STR						Horiz.
W503		1	8'-0"	4	1'-10"	6'-2"				Horiz.
W504		2	2'-2"	STR						Horiz.
W505		2	1'-9"	35	0'-7"	0'-7"				Vert.
W506		3	3'-10"	4	1'-10"	2'-0"				Horiz.
W507		7	7'-3"	STR						Horiz.
W508		6	8'-6"	4	6'-8"	1'-10"				Horiz.
W509		1	6'-1"	4	5'-0"	1'-1"				Horiz.
W510		1	8'-3"	45	1'-1"	3'-9"	3'-5"			Horiz.
W511		6	5'-7"	STR						Horiz.
W512		2	4'-9"	STR						Vert.
W513		10	2'-6"	STR						Vert. Drilled Dowel
W514		7	5'-0"	5	3'-0"	2'-0"				Vert. Drilled Dowel
W515		4	5'-3"	31	2'-0"	1'-0"	1'-3"			Vert. Drilled Dowel
W516		4	VARIES 2'-10" to 3'-8"	5	VARIES 0'-10" to 1'-8"	2'-0"				Vert. Drilled Dowel
W517		3	VARIES 9'-8" to 13'-3"	17	VARIES 0'-11" to 1'-10"	VARIES 4'-6" to 5'-11"	VARIES 0'-7" to 1'-0"	VARIES 3'-8" to 4'-7"		Vert.
W518		4	VARIES 3'-4" to 5'-2"	35	VARIES 0'-11" to 1'-10"	1'-6"				Vert.
W519		2	7'-3"	4	1'-4"	5'-11"				Vert.
W520		6	10'-9"	17	1'-4"	5'-11"	0'-7"	4'-0"		Vert.
W521		1	4'-10"	4	3'-11"	0'-11"				Vert.
W522		2	3'-3"	4	0'-7"	2'-8"				Vert.
W523		1	7'-2"	5	3'-9"	3'-5"				Horiz.
W524		5	12'-10"	17	1'-10"	5'-11"	1'-1"	4'-0"		Vert.
W526		1	1'-1"	STR						Vert.
W527		2	VARIES 3'-0" to 3'-3"	4	2'-0"	VARIES 1'-0" to 1'-3"				Horiz.
W528		5	3'-6"	STR						Horiz.

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
END POST S.W. WINGWALL										
W501	5	5	17'-5"	STR						Horiz.
W502		2	18'-3"	STR						Horiz.
W503		1	16'-4"	4	1'-10"	14'-5"				Horiz.
W504		2	2'-2"	STR						Horiz.
W505		2	1'-9"	35	0'-7"	0'-7"				Vert.
W506		3	3'-10"	4	1'-10"	2'-0"				Horiz.
W507		7	15'-3"	STR						Horiz.
W508		6	8'-6"	4	6'-8"	1'-10"				Horiz.
W509		6	6'-1"	4	5'-0"	1'-1"				Horiz.
W510		1	8'-3"	45	1'-1"	3'-9"	3'-5"			Horiz.
W511		6	5'-7"	STR						Horiz.
W512		2	4'-9"	STR						Vert.
W513		18	2'-6"	STR						Vert. Drilled Dowel
W514		15	5'-0"	5	3'-0"	2'-0"				Vert. Drilled Dowel
W515		4	5'-3"	31	3'-0"	1'-0"	1'-3"			Vert. Drilled Dowel
W516		4	VARIES 2'-10" to 3'-8"	5	VARIES 0'-10" to 1'-8"	2'-0"				Vert. Drilled Dowel
W517		3	VARIES 9'-8" to 13'-3"	17	VARIES 0'-11" to 1'-10"	VARIES 4'-6" to 5'-11"	VARIES 0'-7" to 1'-0"	VARIES 3'-8" to 4'-7"		Vert.
W518		4	VARIES 3'-4" to 5'-2"	35	VARIES 0'-11" to 1'-10"	1'-6"				Vert.
W519		2	7'-3"	4	1'-4"	5'-11"				Vert.
W520		14	10'-9"	17	1'-4"	5'-11"	0'-7"	4'-0"		Vert.
W521		1	4'-10"	4	3'-11"	0'-11"				Vert.
W522		2	3'-3"	4	0'-7"	2'-8"				Vert.
W523		1	7'-2"	5	3'-9"	3'-5"				Horiz.
W524		5	12'-10"	17	1'-10"	5'-11"	1'-1"	4'-0"		Vert.
W526		1	1'-1"	STR						Vert.
W527		2	VARIES 3'-0" to 3'-3"	4	2'-0"	VARIES 1'-0" to 1'-3"				Horiz.
W528		5	3'-6"	STR						Horiz.

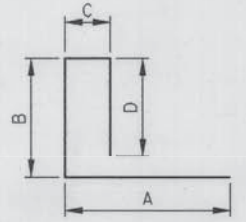


TYPE 4

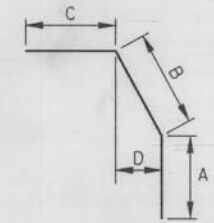
TYPE 5



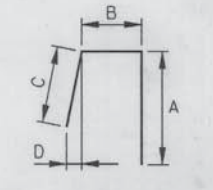
TYPE 35



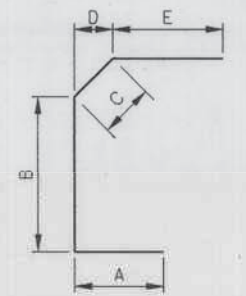
TYPE 17



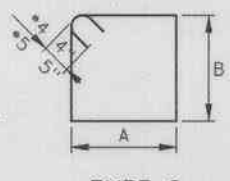
TYPE 31



TYPE 6



TYPE 30



TYPE 9

MARK	SIZE	NO.	LENGTH	TYPE	DIMENSIONS				INCR.	LOCATION AND REMARKS
					A	B	C	D		
ABUTMENT 1 HEAD WALL										
A501	5	4	31'-10"	STR						Horiz.
A502	5	4	29'-0"	STR						Horiz.
A503	5	84	3'-10"	STR						Vert. Drilled Dowel
ABUTMENT 2 HEAD WALL										
A501	5	4	31'-10"	STR						Horiz.
A502	5	4	29'-0"	STR						Horiz.
A503	5	84	3'-10"	STR						Vert. Drilled Dowel

PLAN

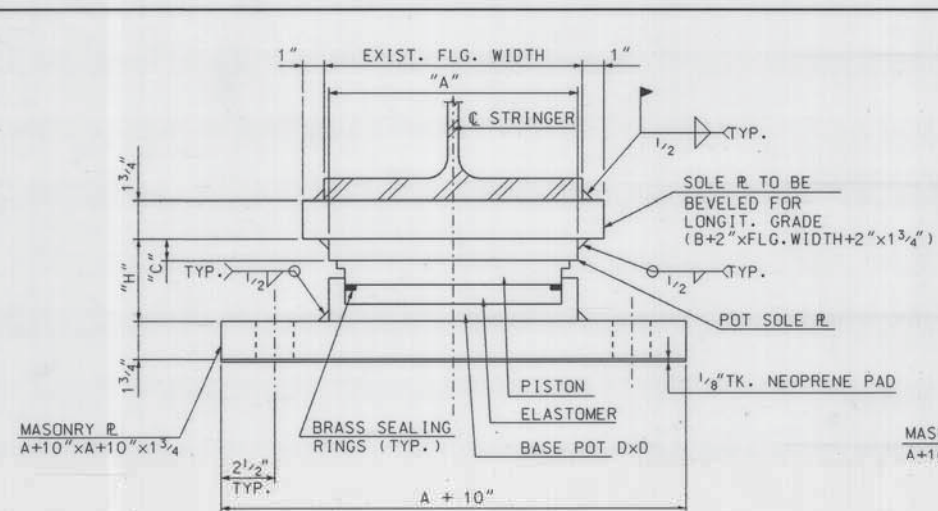
ELEVATION

TYPE 45

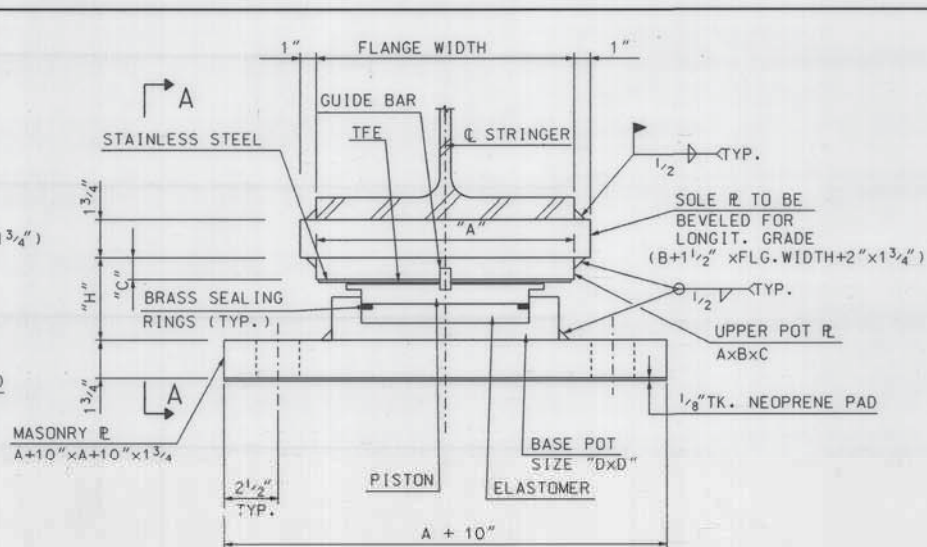
Design: HNTB
 2/15/2011 10:11 AM
 Plot: 10-000000.dwg
 User: jh

No.	Revision	By	Date	In Charge Of:

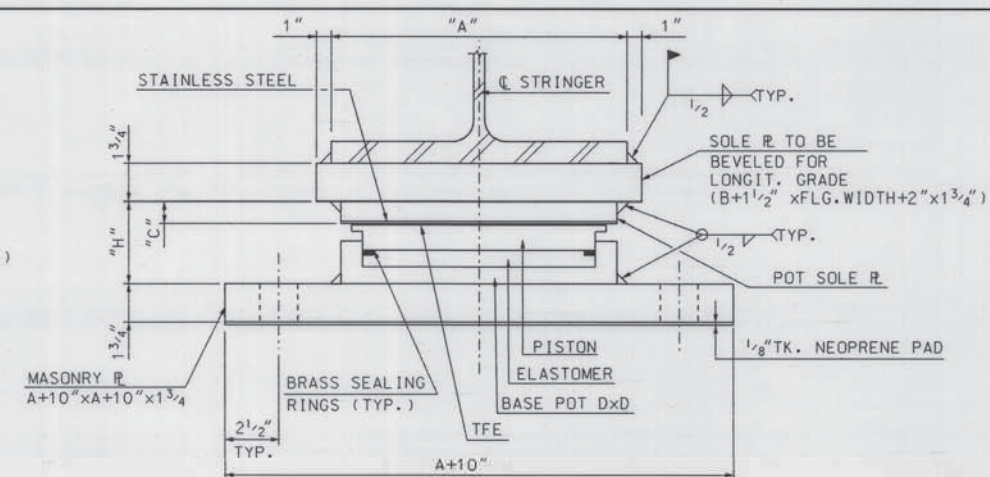
Maine Turnpike Authority Maine Turnpike	
	ROUTE 26 OVER MAINE TURNPIKE REINFORCING SCHEDULE
HOWARD NEEDLES TAMMEN & BERGENDT ARCHITECTS ENGINEERS PLANNERS	
Contract 94.6	Sheet No. 5-10 29 of 30



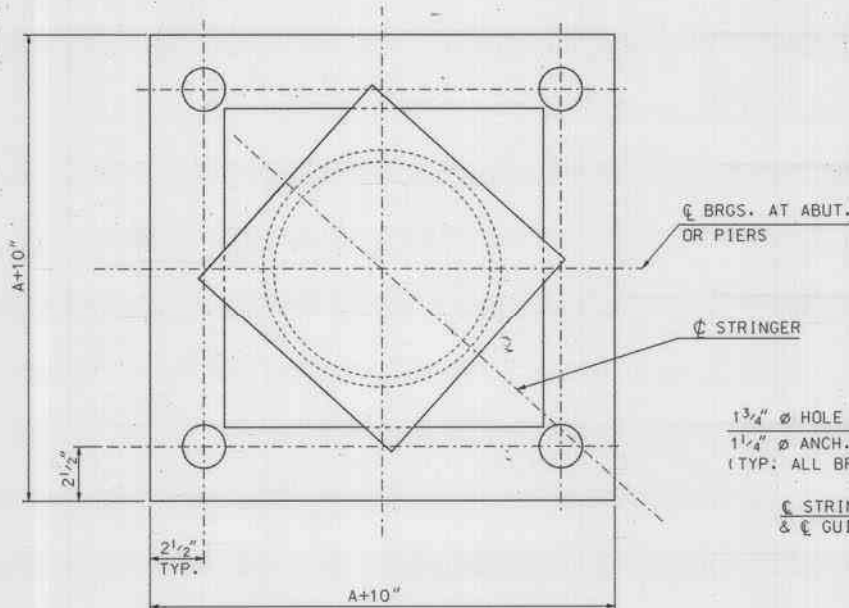
FIXED BEARING
3" = 1'-0"



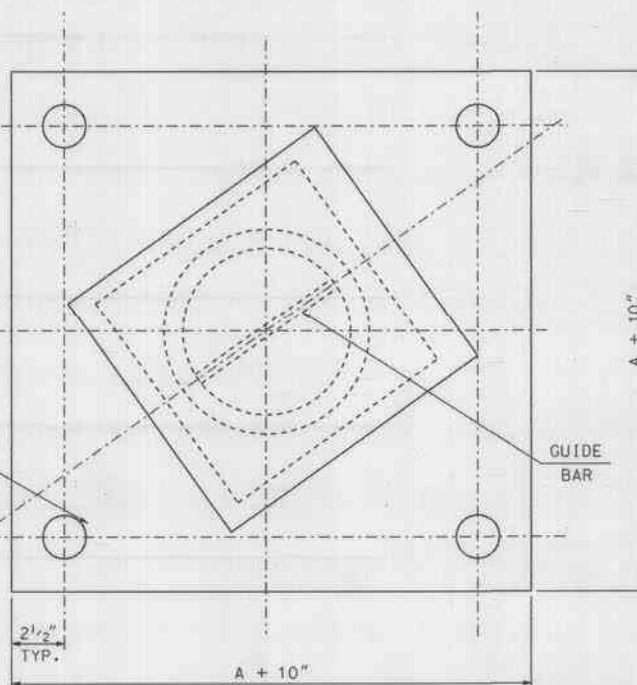
GUIDED EXPANSION BEARING
3" = 1'-0"



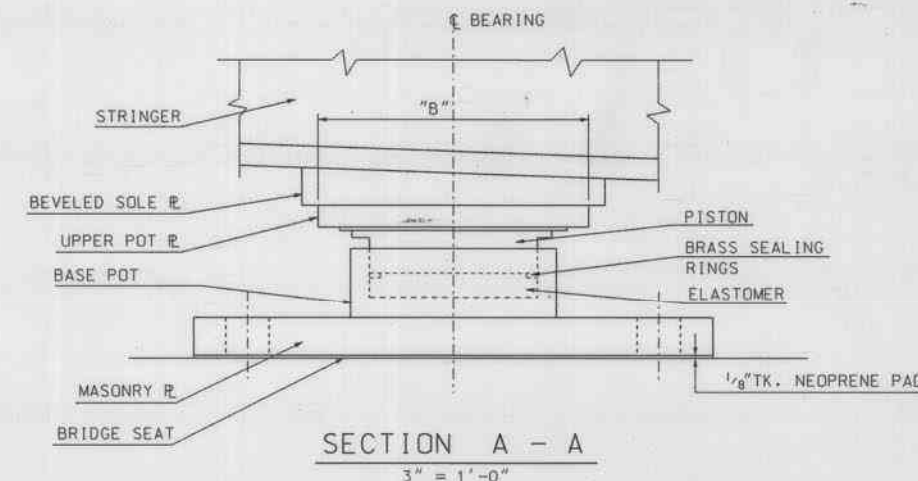
EXPANSION BEARING
3" = 1'-0"



PLAN
FIXED BEARING
3" = 1'-0"



PLAN
GUIDED EXPANSION BEARING
3" = 1'-0"



SECTION A - A
3" = 1'-0"

DESCRIPTION	A	B	C	D	H	
FIXED	F100	7.75	7.75	0.75	7.75	2.929
	F150	9.00	9.00	1.00	9.00	3.152
	F200	10.25	10.25	1.00	10.25	3.492
EXPAN.	F250	11.50	11.50	1.00	11.50	3.709
	E100	7.75	10.50	0.75	7.75	2.65
	E150	9.00	11.75	0.75	9.00	2.63
GUIDED EXPAN.	E200	10.25	13.00	0.75	10.25	2.98
	E250	11.50	14.00	0.88	11.25	3.46
	EG100	7.75	10.50	1.625	7.75	4.054
	EG150	9.00	11.75	1.75	9.00	4.402
	EG200	10.25	13.00	2.00	10.25	4.867
	EG250	11.25	14.00	2.00	11.50	5.209

NOTES:

- POT BEARING DETAILS SHOWN ARE TAKEN FROM SAI POT BEARING CATALOG, MANUFACTURED BY STRUCTURAL ACCESSORIES, INC. SOUTH MAIN ST./P.O. BOX 10 TERRYVILLE, CT. 06786
- ALL GUIDED EXPANSION BEARING DIMENSIONS ARE BASED ON 20% HORIZONTAL CAPACITY.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
- FOR LOCATION OF POT BRG'S., SEE FRAMING PLAN SHTS. 36
- ALL STRUCTURAL STEEL SHALL BE AASHTO 270, GRADE 36 (ASTM A709, GRADE 36) UNLESS OTHERWISE NOTED.
- MASONRY PLATES SHALL BE BEDDED ON THE CONCRETE PADS WITH EITHER ELASTOMERIC BEARING PADS OR PREFORMED FABRIC PAD 1/8" MINIMUM THICKNESS.
- SOLE PLATES AND PISTONS SHALL HAVE MACHINED SURFACES TO FINISH ANSI 125
- STAINLESS STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A167, TYPE 304 OR ASTM A240, TYPE 304. STAINLESS STEEL IN CONTACT WITH TFE SHEET SHALL BE LESS THAN 0.5 u INCH ROOT SQUARE FINISH.
- THE 1 1/4" Ø ANCHOR BOLTS, RODS AND NUTS SHALL BE A307. WASHERS SHALL CONFORM TO REQUIREMENTS OF AASHTO M293 (ASTM F4361)

No.	Revision	By	Date	In Charge Of:

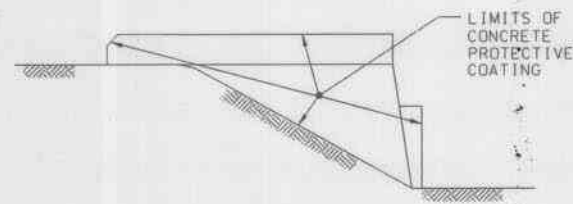
Maine Turnpike Authority
Maine Turnpike

ROUTE 26
OVER
MAINE TURNPIKE
POT BEARING DETAILS

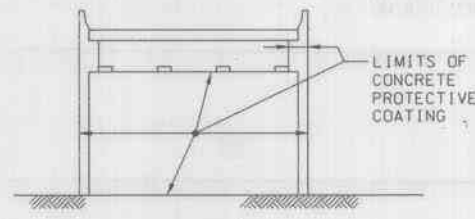
HNTB
HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

Contract 94.6

Sheet No. S11
30 of 35



WINGWALLS



ABUTMENT

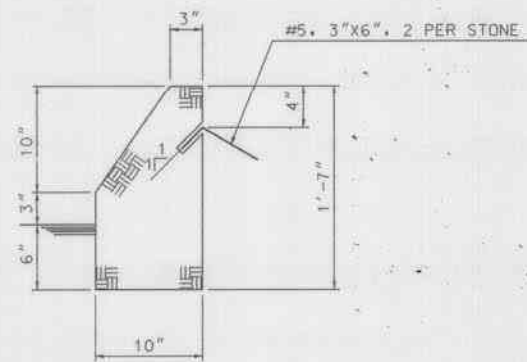
CONCRETE PROTECTIVE COATING NOTE

CONCRETE PROTECTIVE COATING AT PIERS: ALL VERTICAL SURFACES OF PIER STEMS SHALL BE COATED.

LIMITS OF CONCRETE PROTECTIVE COATING

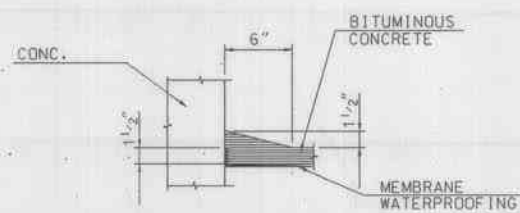
(ITEM 515.201)

NOT TO SCALE



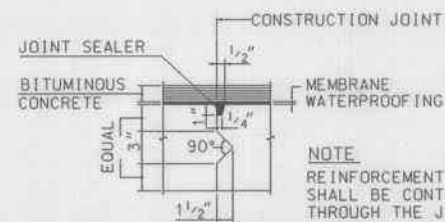
GRANITE CURB DETAIL

1 1/2" = 1'-0"



DETAIL

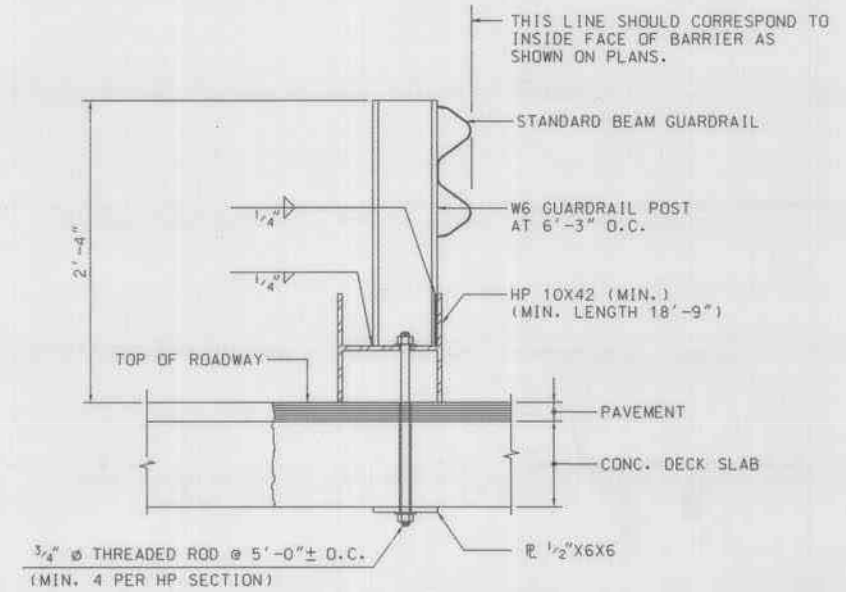
3" = 1'-0"



CONSTRUCTION JOINT DETAIL

3" = 1'-0"

NOTE
REINFORCEMENT
SHALL BE CONTINUOUS
THROUGH THE JOINT



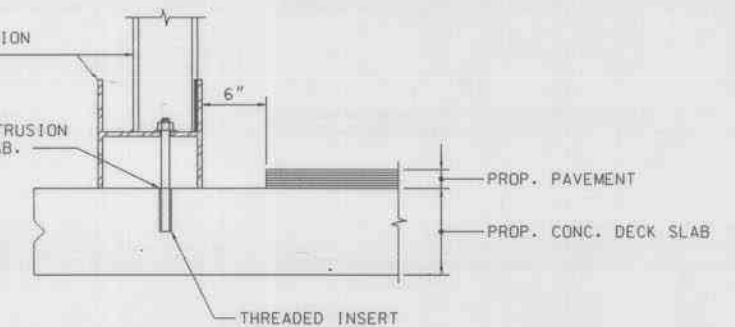
SUGGESTED TEMPORARY STEEL GUARD RAIL DETAILS

(EXISTING DECK SLAB)

1 1/2" = 1'-0"

FOR FURTHER INFORMATION
SEE DETAIL ABOVE.

GRIND SMOOTH
TO GUARANTEE NO PROTRUSION
ABOVE CONC. DECK SLAB.



SUGGESTED TEMPORARY STEEL GUARD RAIL DETAILS


(PROPOSED DECK SLAB)

1 1/2" = 1'-0"

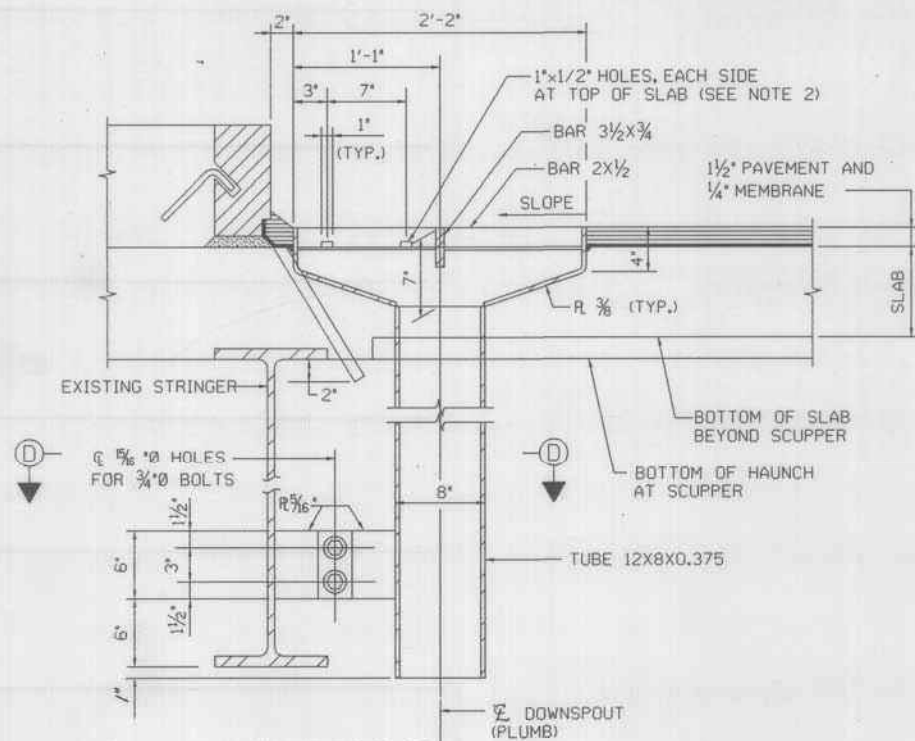
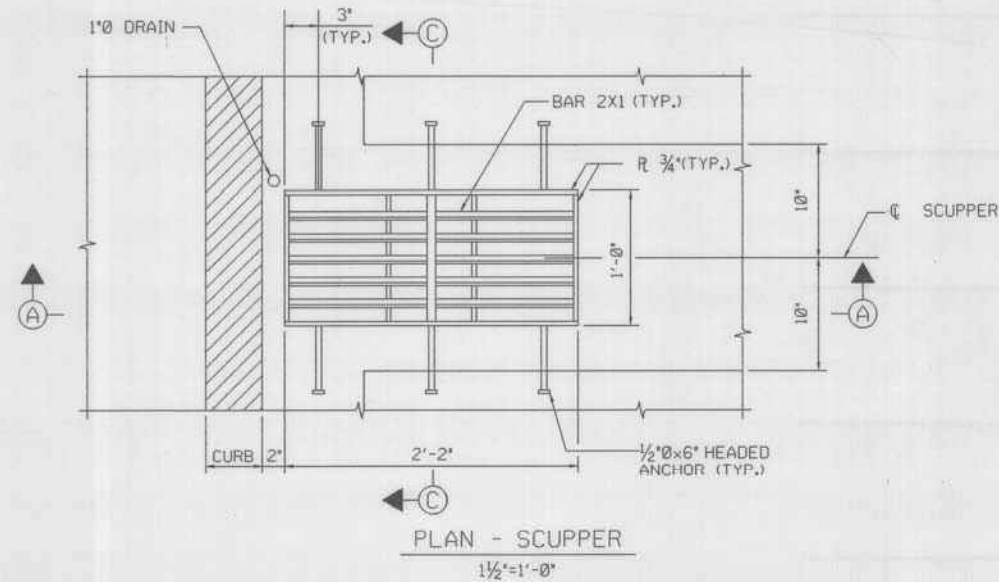
STEEL GUARD NOTES

1. ALL WORK NECESSARY TO ERECT AND MOVE THE TEMPORARY STEEL GUARDRAIL SHALL BE PAID UNDER ITEM 606.172.

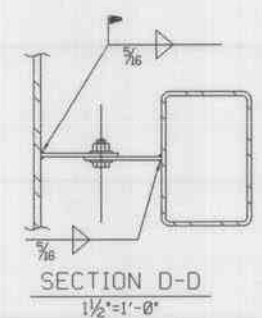
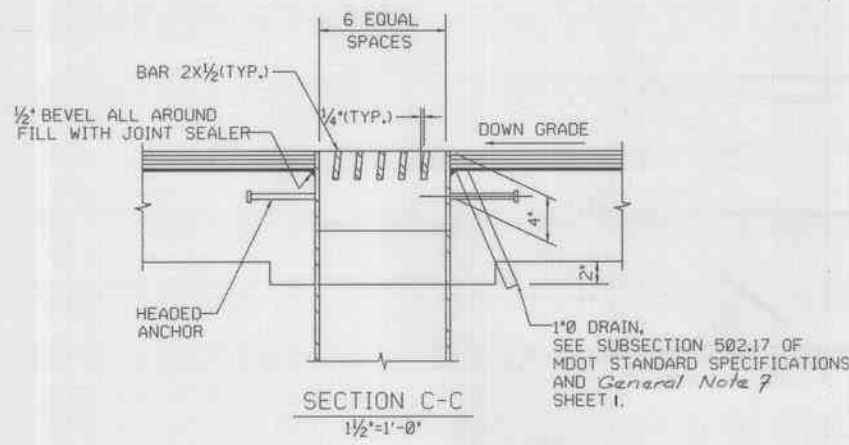
Design Filename: d:\f09009\miscdet.dgn
Plotted on: 13-APR-1994 12:25
Generated by: E.G.

Maine Turnpike Authority Maine Turnpike	
	
MISCELLANEOUS DETAILS	
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	
Contract	94.6
Sheet No. S12	31 of 35

No.	Revision	By	Date	In Charge Of:
		Designed	IS 2/93	
		Drawn	SHR 2/93	
		Checked	SHR 2/93	
		In Charge Of:	RAL	




- SCUPPER NOTES**
1. ALL WELDS TO BE CONTINUOUS $\frac{1}{8}$ \"/>

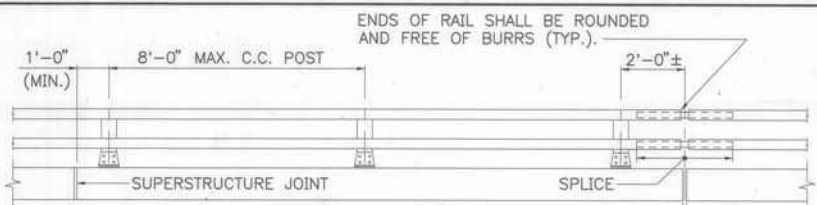


By	IS	2/92
Designed	IS	2/92
Drawn	RDF	2/92
Checked	SHR	1/93
In Charge Of:	RAL	

Maine Turnpike Authority
 Maine Turnpike
ROUTE 26
 OVER
MAINE TURNPIKE
SCUPPER DETAILS


HNTB
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

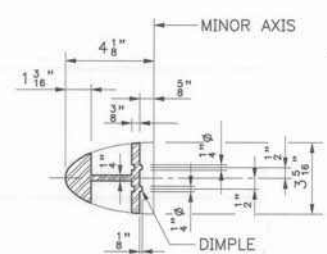
Contract 94.6
 Sheet No. 53
32 of 35



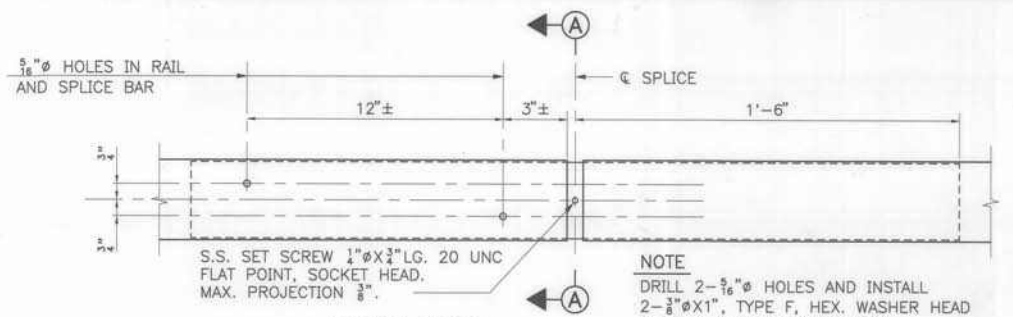
NOTE
 LENGTHS OF RAIL SHALL BE ATTACHED TO A MIN. OF FOUR (4) RAIL POST WHENEVER POSSIBLE, AND IN ANY CASE NEVER LESS THAN TWO (2). RAIL POST ARE TO BE SET NORMAL TO GRADE UNLESS OTHERWISE SHOWN ON THE BRIDGE PLANS.

2" @ 70° F (BRIDGE EXP. JOINTS)
 2" @ RAIL JOINTS

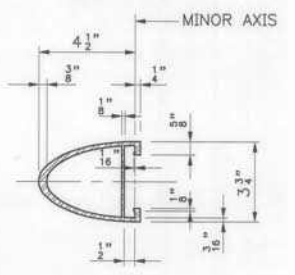
RAILING - ELEVATION
 3" = 1'-0"



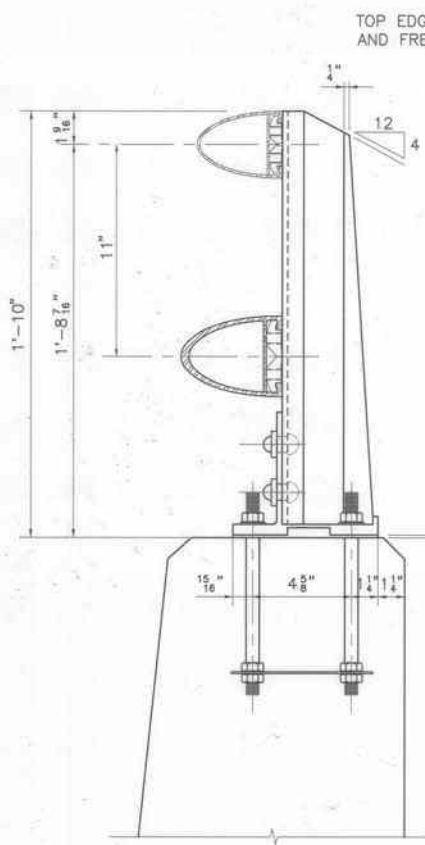
SECTION A-A (RAIL)
 3" = 1'-0"



SPLICE DETAIL
 3" = 1'-0"

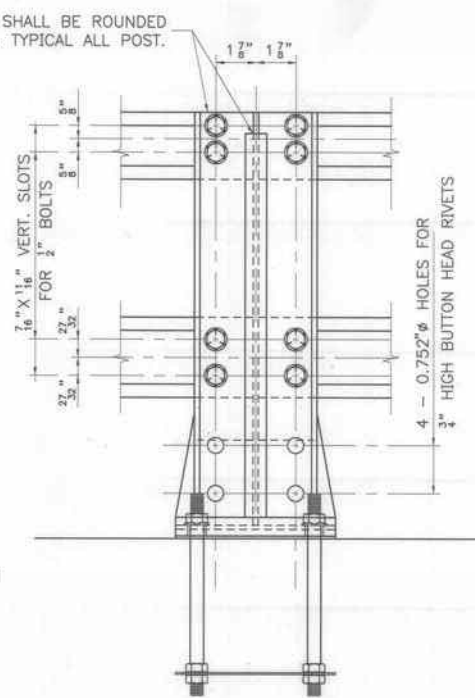


RAIL MEMBER
 3" = 1'-0"

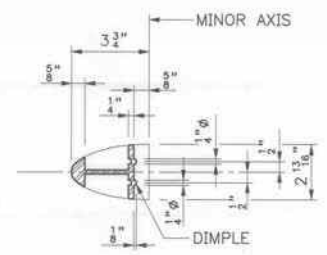


BRIDGE RAILING (ASSEMBLY)
 3" = 1'-0"

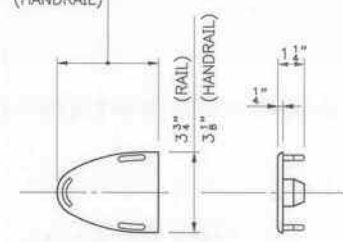
PREFORMED PAD 1/2"± THICK AFTER COMPRESSION (TYP.) AT LEAST ONE PAD SHALL BE PLACED UNDER EACH POST



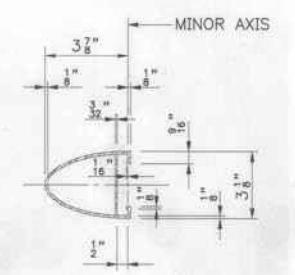
OUTSIDE ELEVATION OF POST
 3" = 1'-0"



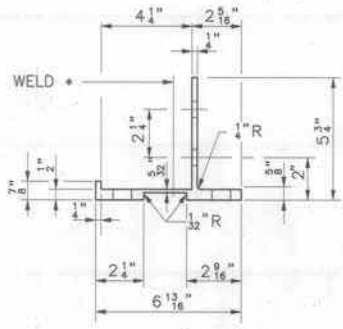
SECTION A-A (HANDRAIL)
 3" = 1'-0"



CAST ALUMINUM DRIVE FIT RAIL CAP
 3" = 1'-0"

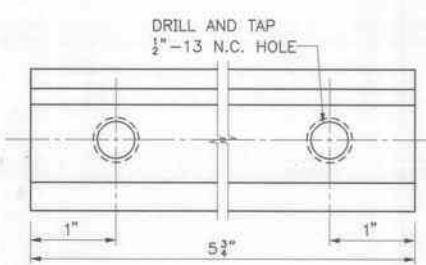


HANDRAIL MEMBER
 3" = 1'-0"

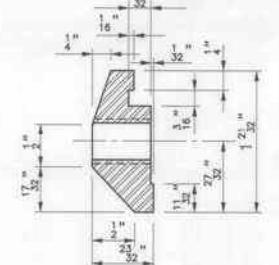


POST BASE SECTION
 3" = 1'-0"

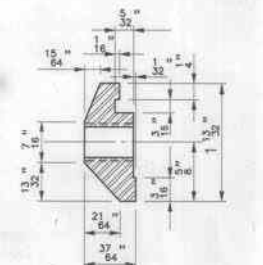
NOTE
 • ONE-PIECE BASE PLATE MAY BE SUBSTITUTED, PROVIDED THAT THE REQUIRED LENGTH IS CUT FROM A ONE-PIECE EXTRUSION AND HAS THE GEOMETRIC SHAPE OF THE TWO-PIECE BASE PLATE



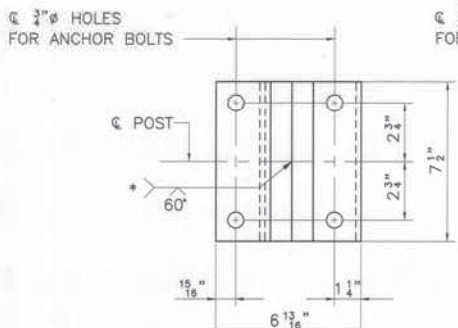
CLAMP BAR DETAILS
 FULL SIZE



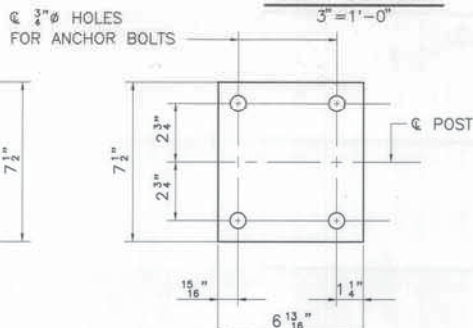
FOR RAIL MEMBER



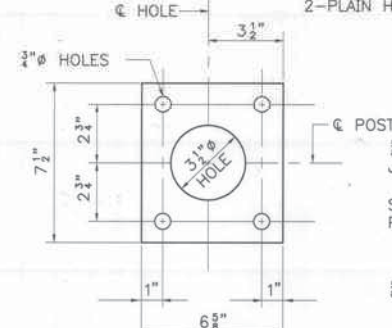
FOR HANDRAIL



POST BASE (BOTTOM VIEW)
 3" = 1'-0"

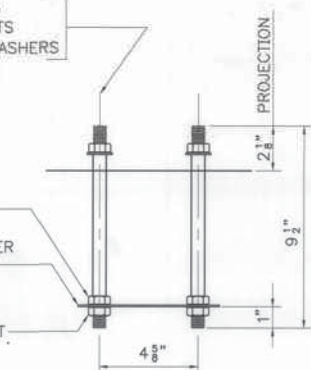


PREFORMED PAD
 3" = 1'-0"

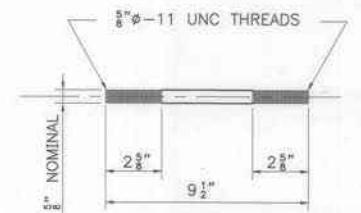


STEEL SPACER PLATE (FOR ANCHORAGE)
 3" = 1'-0"

2-5/8" ANCHOR BOLTS
 2-5/8" HEAVY HEX. NUTS
 2-PLAIN HARDENED WASHERS



RAIL POST ANCHORAGE (ASSEMBLY)
 3" = 1'-0"



ANCHOR BOLT
 3" = 1'-0"

NOTE
 IF CUT THREADS ARE USED, BODY DIAMETER SHALL BE NOT LESS THAN NOMINAL DIAMETER. IF ROLLED THREADS ARE USED, BODY DIAMETER SHALL BE NOT LESS THAN PITCH DIAMETER OF THE THREADS.

Maine Turnpike Authority
Maine Turnpike

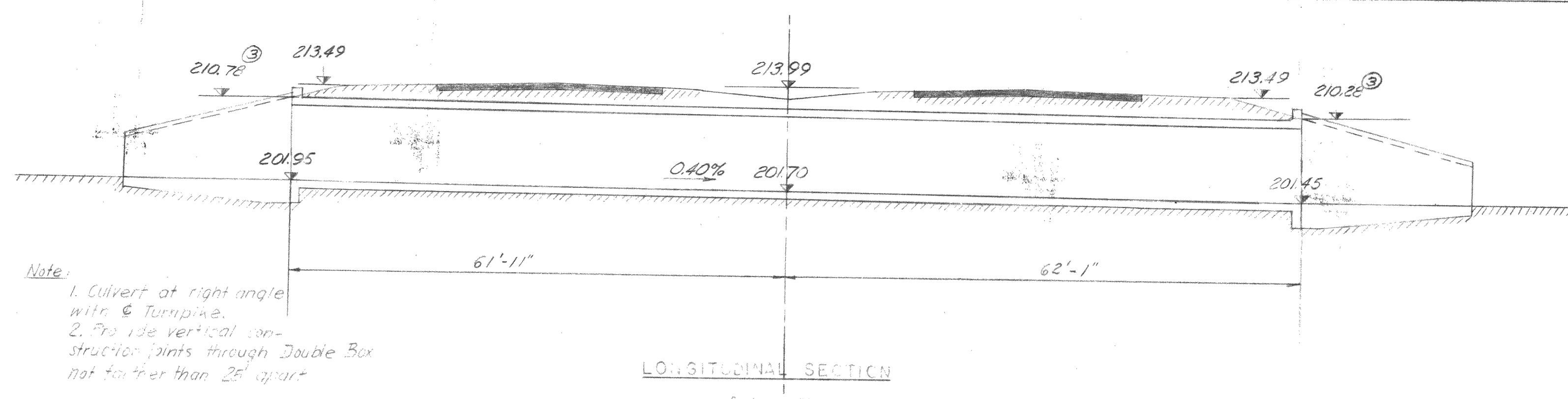
STANDARD DETAILS
ALUMINUM BRIDGE RAILING DETAILS

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 94.6 Sheet No. S-14
 33 of 35

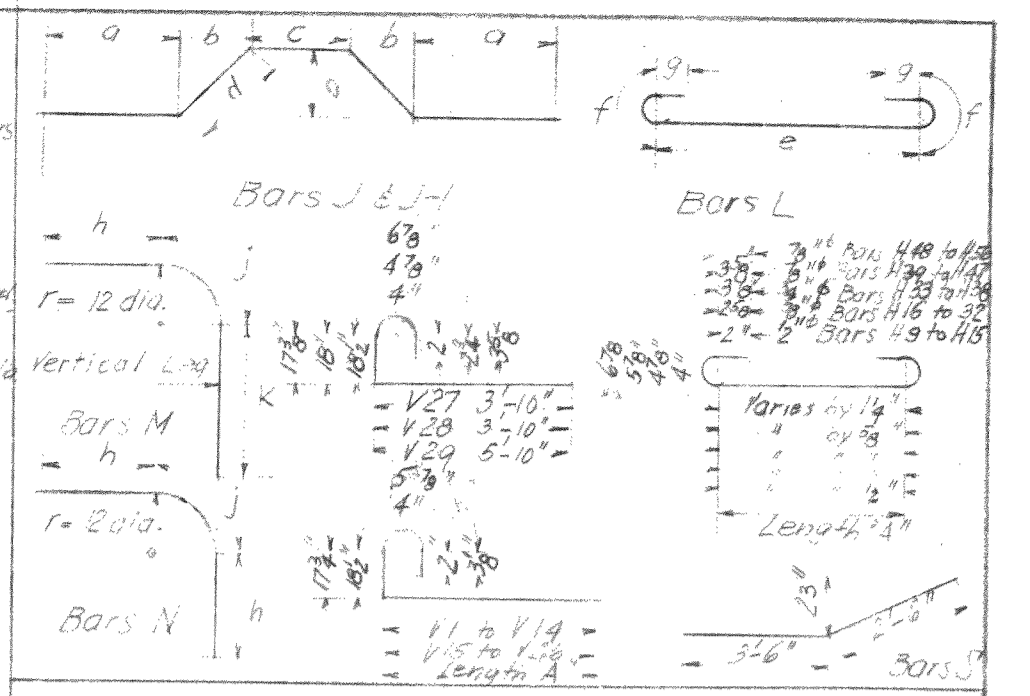
No.	Revision	By	Date	In Charge Of
		Designed	SHR 4/94	
		Drawn	KSP 4/94	
		Checked	SHR 4/94	
				RAL

REINFORCING I WING (CONT'D)											
Type	Size	Spacing	Length	Length A	Number	Type	Size	Spacing	Length	Length A	Number
H 21	8#	6"	4'-11"	4'-11"	1	H 44	8#	6"	4'-11"	4'-11"	1
H 22	8#	6"	4'-11"	4'-11"	1	H 45	8#	6"	4'-11"	4'-11"	1
H 23	8#	6"	4'-11"	4'-11"	1	H 46	8#	6"	4'-11"	4'-11"	1
H 24	8#	6"	4'-11"	4'-11"	1	H 47	8#	6"	4'-11"	4'-11"	1
H 25	8#	6"	4'-11"	4'-11"	1	H 48	8#	6"	4'-11"	4'-11"	1
H 26	8#	6"	4'-11"	4'-11"	1	H 49	8#	6"	4'-11"	4'-11"	1
H 27	8#	6"	4'-11"	4'-11"	1	H 50	8#	6"	4'-11"	4'-11"	1
H 28	8#	6"	4'-11"	4'-11"	1	H 51	8#	6"	4'-11"	4'-11"	1
H 29	8#	6"	4'-11"	4'-11"	1	H 52	8#	6"	4'-11"	4'-11"	1
H 30	8#	6"	4'-11"	4'-11"	1	H 53	8#	6"	4'-11"	4'-11"	1
H 31	8#	6"	4'-11"	4'-11"	1	H 54	8#	6"	4'-11"	4'-11"	1
H 32	8#	6"	4'-11"	4'-11"	1	H 55	8#	6"	4'-11"	4'-11"	1
H 33	8#	6"	4'-11"	4'-11"	1	H 56	8#	6"	4'-11"	4'-11"	1
H 34	8#	6"	4'-11"	4'-11"	1	H 57	8#	6"	4'-11"	4'-11"	1
H 35	8#	6"	4'-11"	4'-11"	1	H 58	8#	6"	4'-11"	4'-11"	1
H 36	8#	6"	4'-11"	4'-11"	1	H 59	8#	6"	4'-11"	4'-11"	1
H 37	8#	6"	4'-11"	4'-11"	1	H 60	8#	6"	4'-11"	4'-11"	1
H 38	8#	6"	4'-11"	4'-11"	1	H 61	8#	6"	4'-11"	4'-11"	1
H 39	8#	6"	4'-11"	4'-11"	1	H 62	8#	6"	4'-11"	4'-11"	1
H 40	8#	6"	4'-11"	4'-11"	1	H 63	8#	6"	4'-11"	4'-11"	1
H 41	8#	6"	4'-11"	4'-11"	1	H 64	8#	6"	4'-11"	4'-11"	1
H 42	8#	6"	4'-11"	4'-11"	1	H 65	8#	6"	4'-11"	4'-11"	1
H 43	8#	6"	4'-11"	4'-11"	1	H 66	8#	6"	4'-11"	4'-11"	1

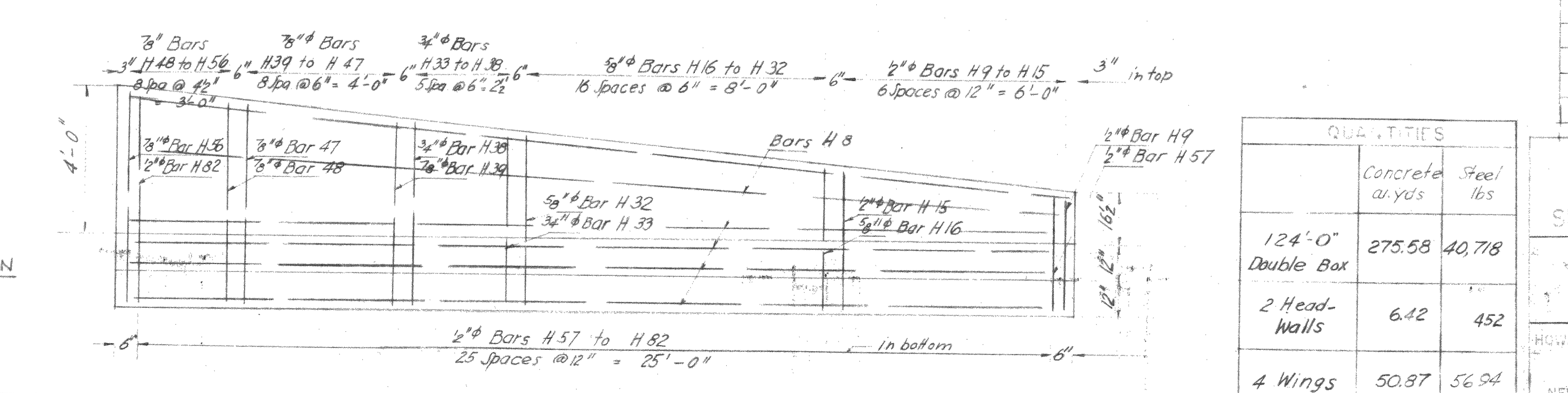
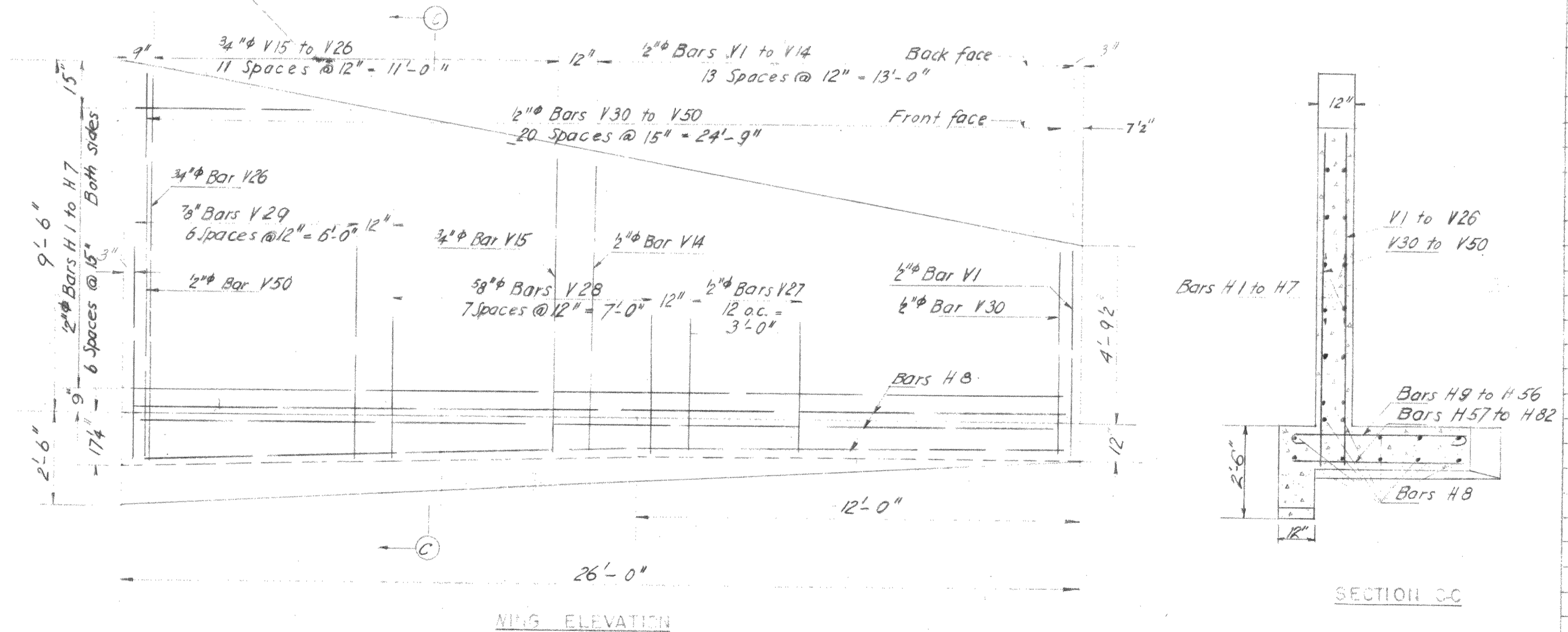
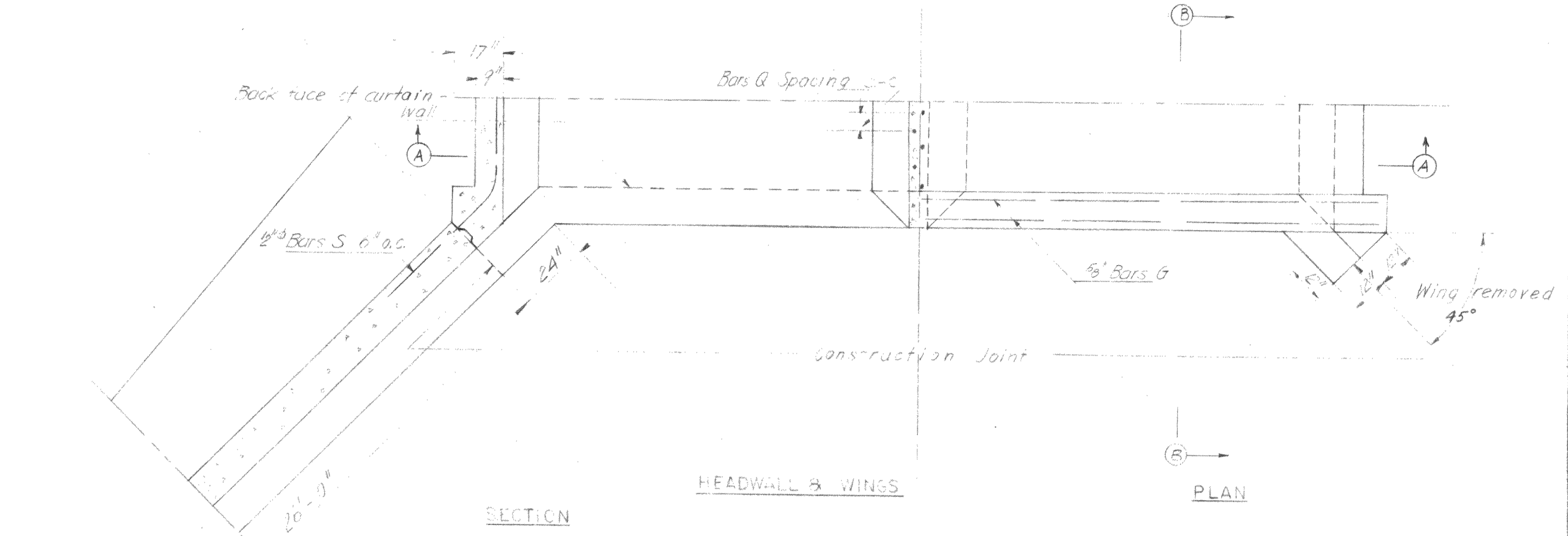
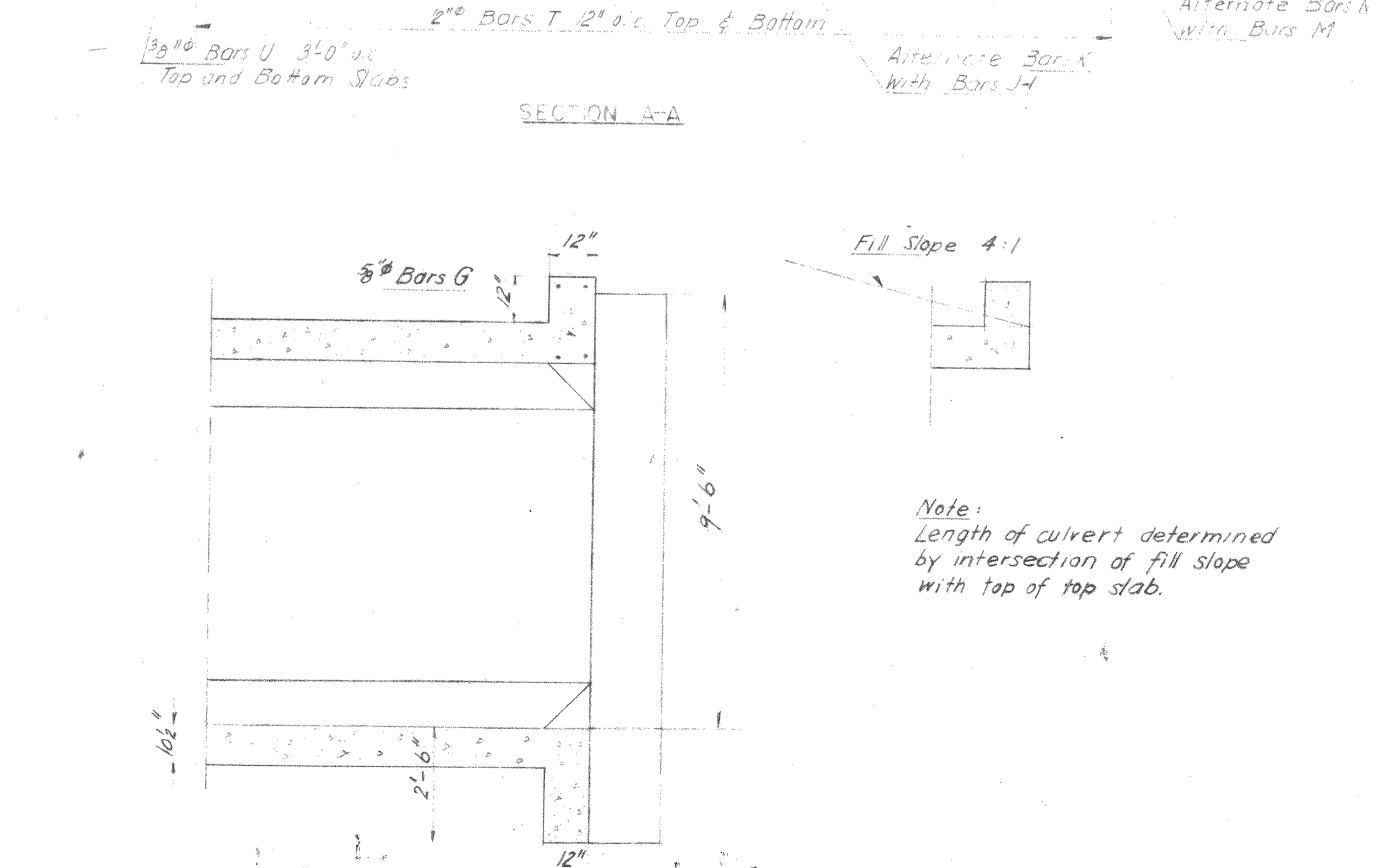
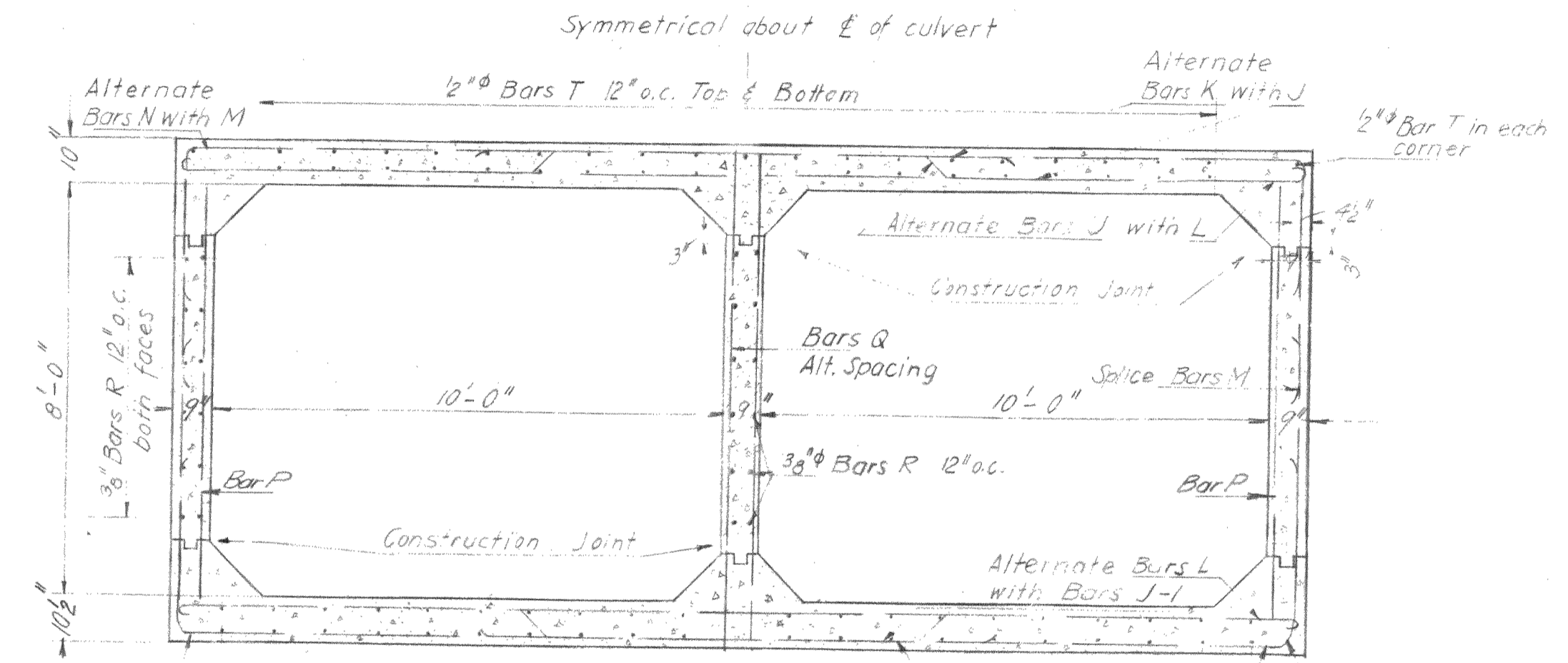


Note:
 1. Culvert at right angle with Turnpike.
 2. Provide vertical construction joints through Double Box not farther than 25' apart.

Note:
 1. The face of reinforcing bars shall be 2" from the face of the concrete.
 2. All bars to be within 2B dia radius unless otherwise shown.
 3. Bars to be bent up 45° at places at construction joints and placed in same position as to second joint.



REINFORCING DOUBLE BOX & HEAD WALLS														
Type	Size	Spacing	Length	Dimensions										
				a	b	c	d	e	f	g	h	i	j	k
J	2#	6"	6'-2 1/2"	6'	0"	0"	1'	6"	5'-8 1/2"					
J-1	2#	6"	2'-11 7/8"	6'	5'-8 1/2"									
K	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
L	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
M	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
N	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
P	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
Q	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
R	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
S	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
T	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
U	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
V	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
W	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
X	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
Y	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					
Z	2#	6"	6'-9"	6'	0"	0"	1'	6"	5'-8 1/2"					



Note:
 Length of culvert determined by intersection of fill slope with top of top slab.

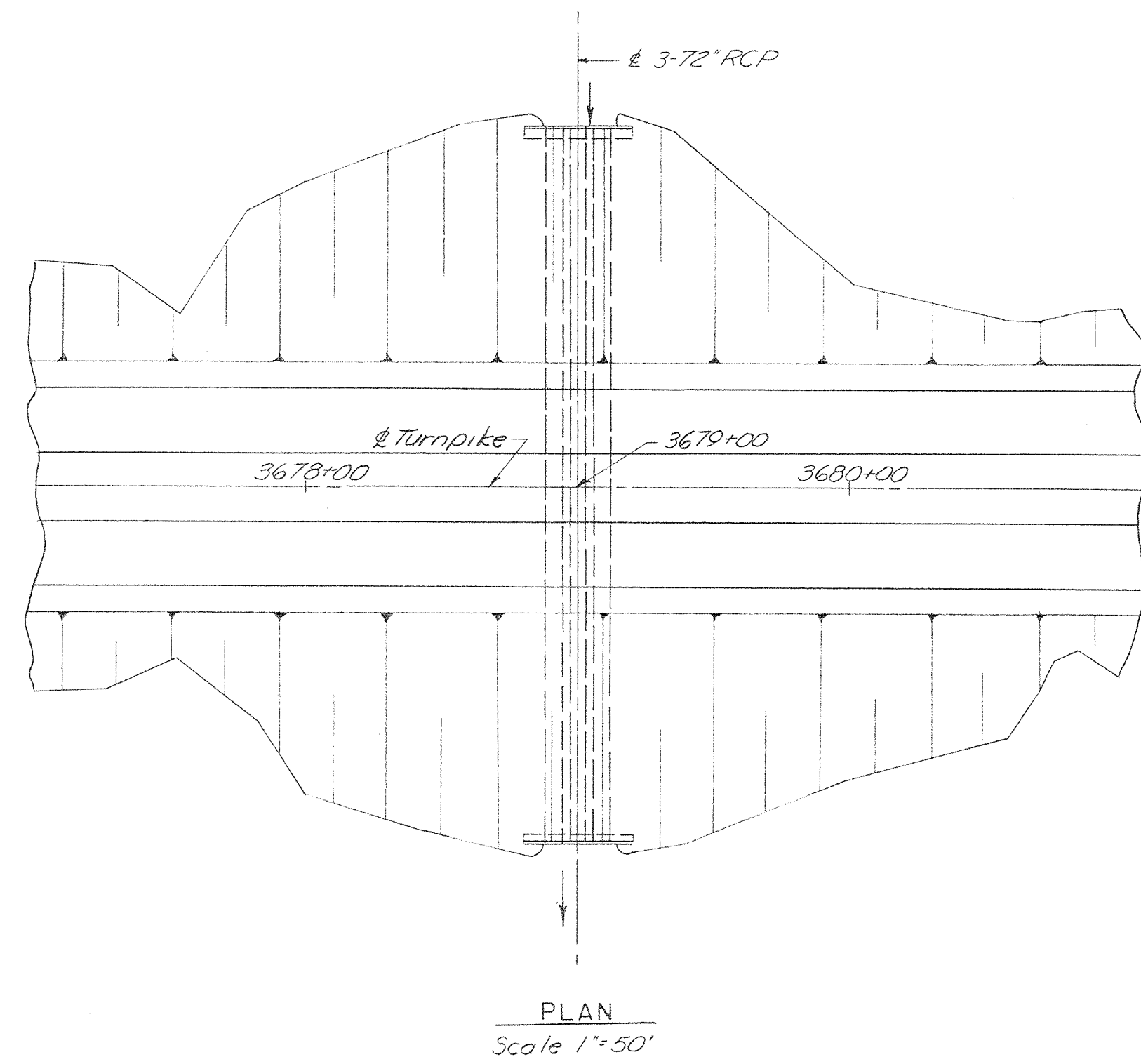
No.	Date	By	Revision	Approved
4	4-23-56	NBH	As Built	
3	10-30-53	RPC	Headwall Elevs.	
2	9-5-53	NH	Middle column to 9'w.	R.P.C.
1	9-3-53	R.B.	CHANGED GRADE, ETC.	R.P.C.

QUANTITIES		
	Concrete cu yds	Steel lbs
124'-0" Double Box	275.58	40,718
2 Head-Walls	6.42	452
4 Wings	50.87	56.94

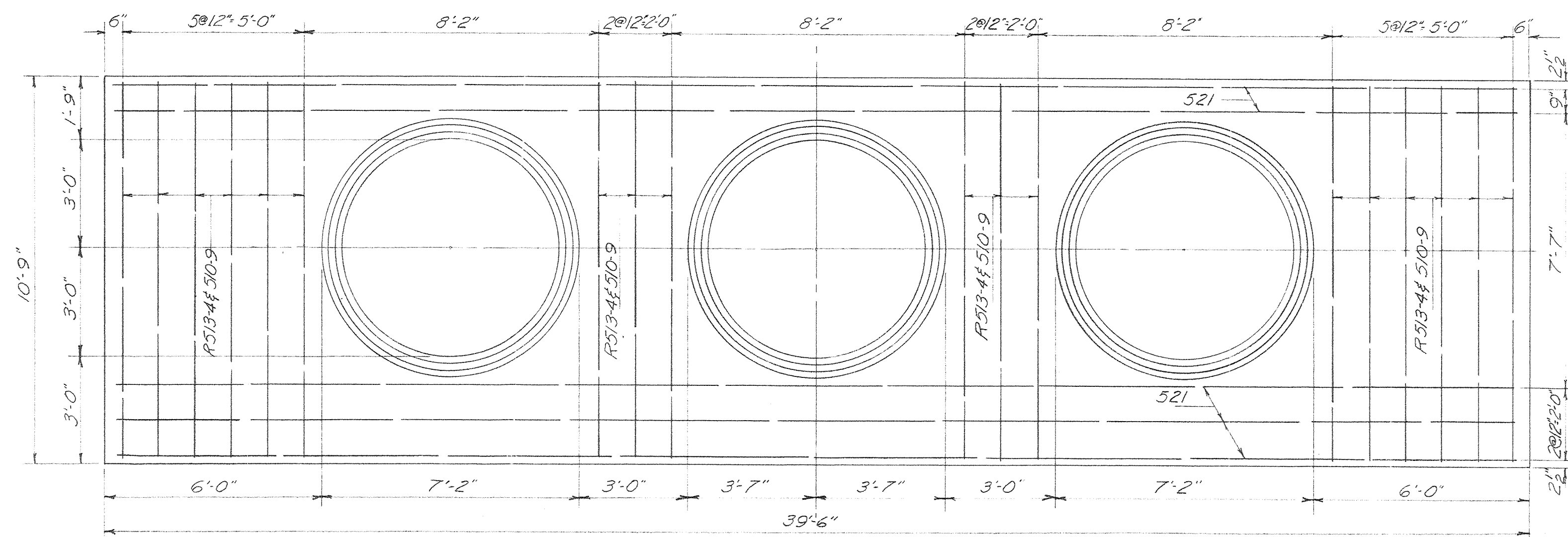
MAINE TURNPIKE AUTHORITY
 MAINE TURNPIKE
 SECTION 2 - PORTLAND TO AUGUSTA
 DOUBLE BOX CULVERT 10'x8'
 STA 3283+05

HOWARD NEEDLES TAMM & BERTNER
 CONSULTING ENGINEERS
 NEW YORK KANSAS CITY

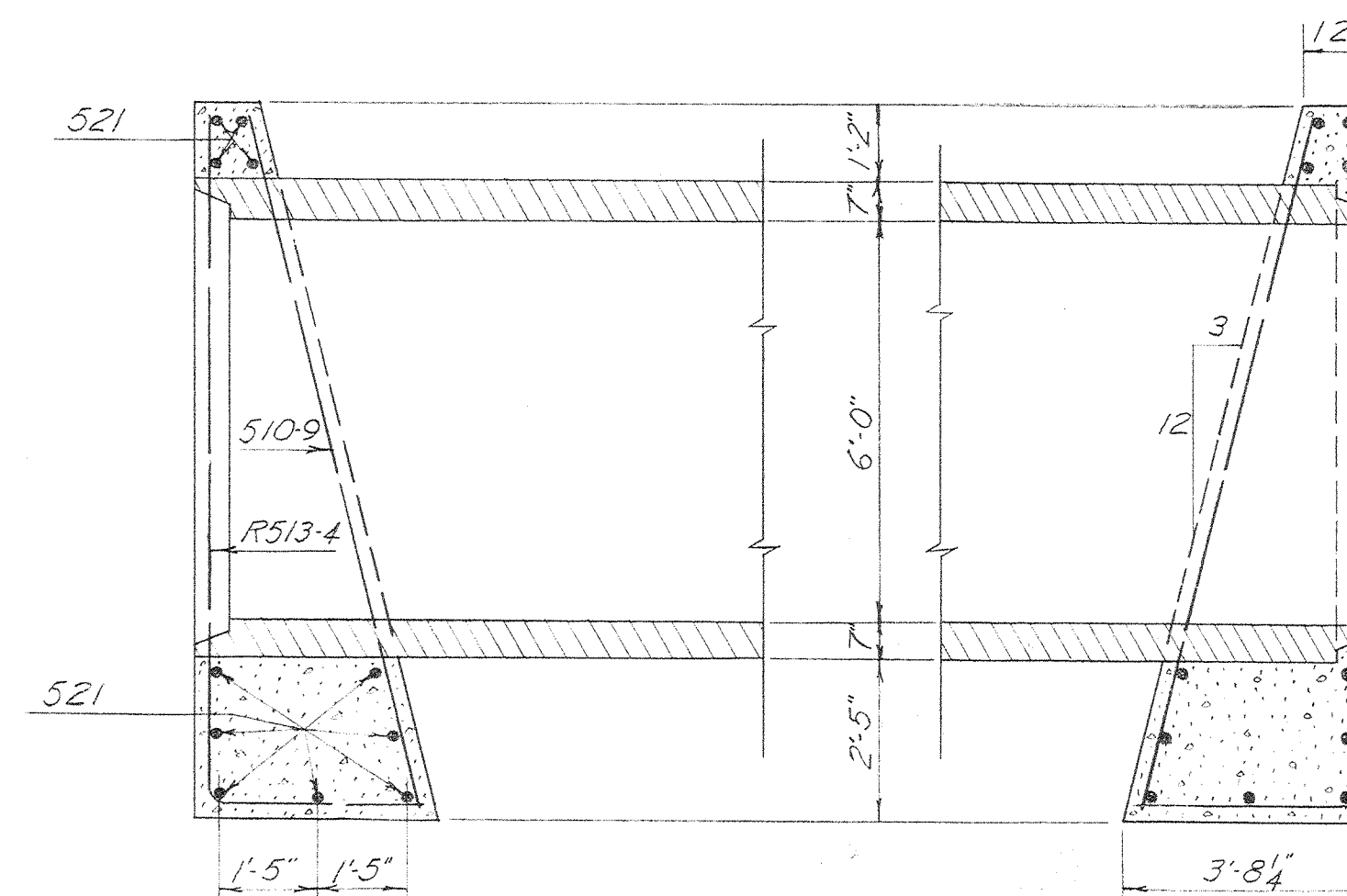
SCALE: 1"=10', 3/8"=1'
 CONTRACT NO.
 SHEET NO. D-19 OF 37



PLAN
Scale 1"=50'



END ELEVATION
Scale 3/8"=1'-0"



SECTION B-B
Scale 3/8"=1'-0"

REINFORCING SCHEDULE						
Number	Size	Mark	Bending Dimensions			
			A	B	C	P
36	3/8"	R513-4	9'-8"	1'-0"	2'-8"	0'-7 1/2"
36	3/8"	510-9				
44	3/8"	521				

Type of bend - if omitted bar is straight
 Size of bar in (5"=3/8")
 Length in feet
 Length in inches - 0" if omitted

EXPLANATION OF BAR MARKS

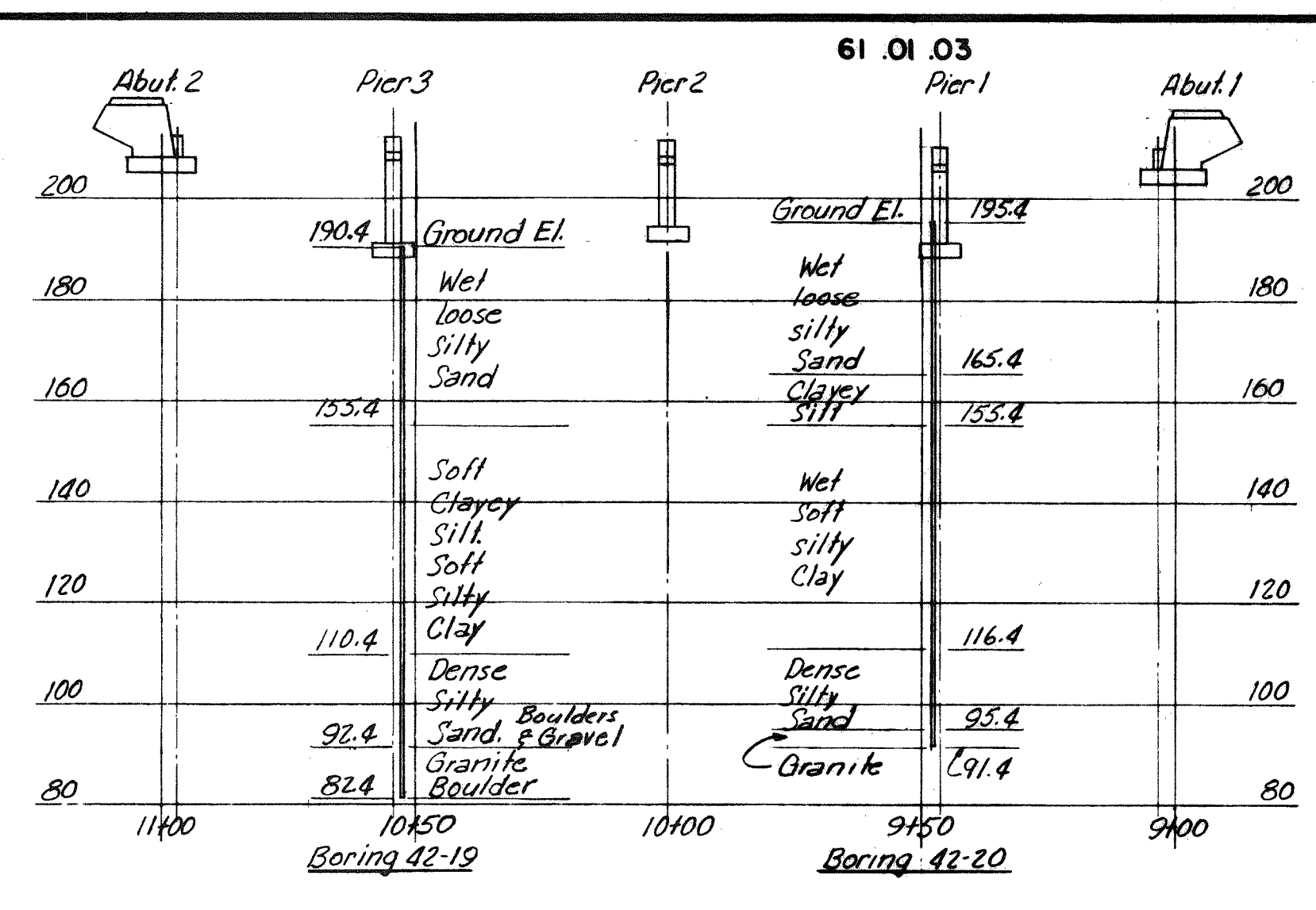
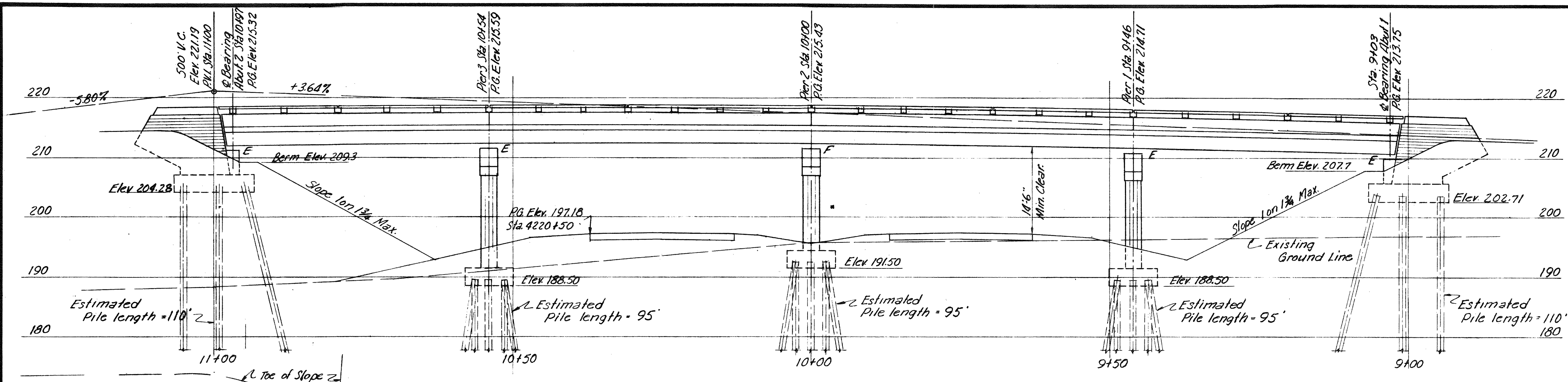
MAINE TURNPIKE AUTHORITY
 MAINE TURNPIKE
 SECTION 2 - PORTLAND TO AUGUSTA
 HEADWALL FOR 3-72" R.C.P.
 STA 3679+00

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 NEW YORK KANSAS CITY
 SCALE: As Shown
 CONTRACT NO. _____
 SHEET NO. D-2 OF 31

QUANTITIES	
Concrete	Steel
54,120 Y.	1668 #

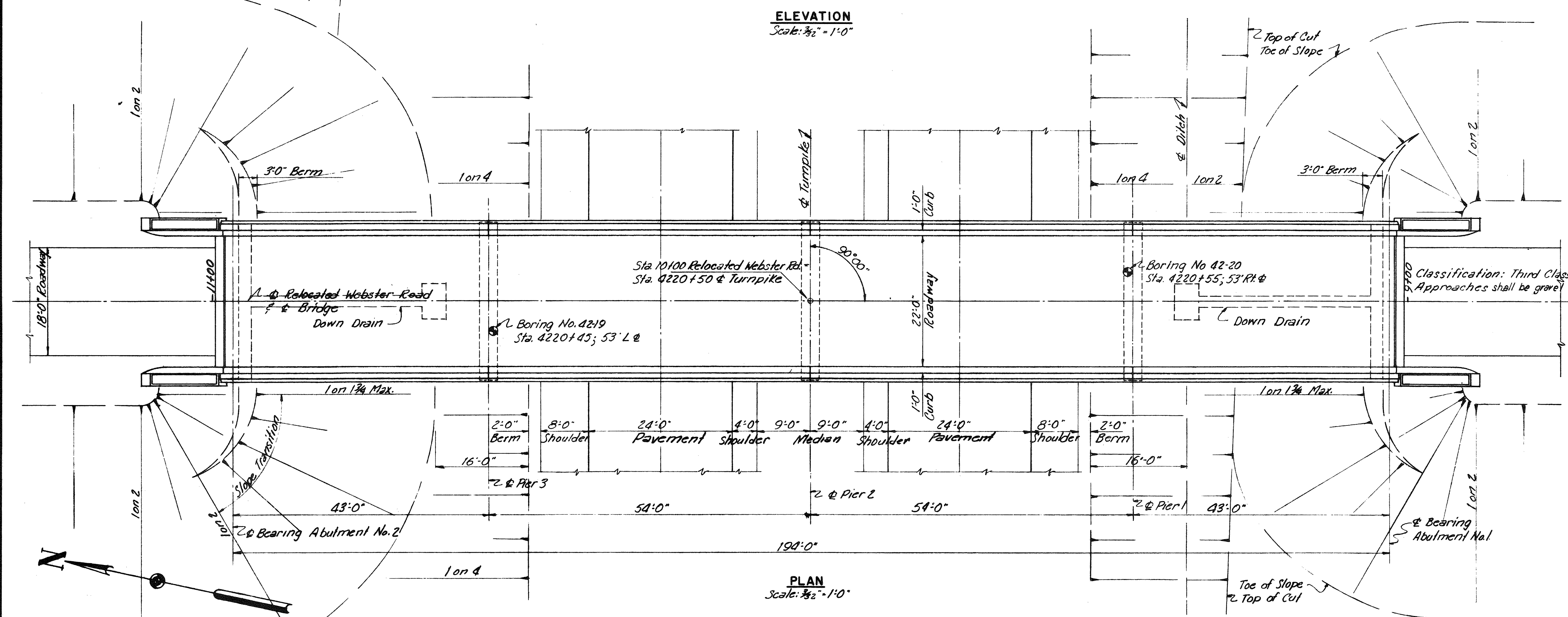
	BY	DATE			
MADE	HBH	9-30-54			
TRACED					
CHECKED	CVA	10-4-54	1	As Built	HBH/2836
IN CHARGE OF	No.	REVISION	BY	DATE	

Foster Brook



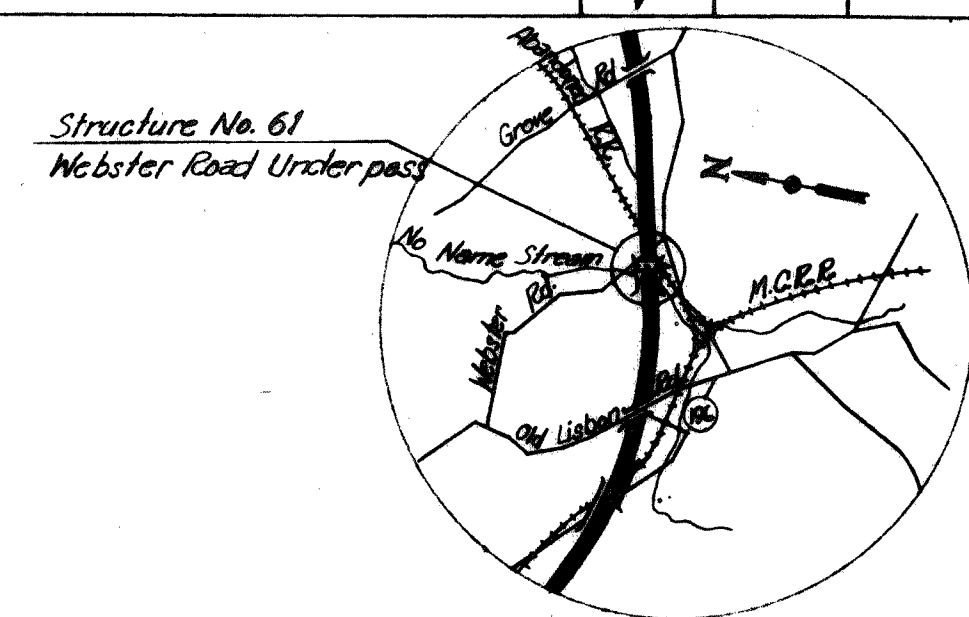
GENERAL NOTES

Design Specifications: AASHTO (1953) with minor modifications.
 Design Live Load: H15-44
 Maximum Pile Load on Abutments = 35.6 Tons
 Maximum Pile Load on Piers = 52.0 Tons

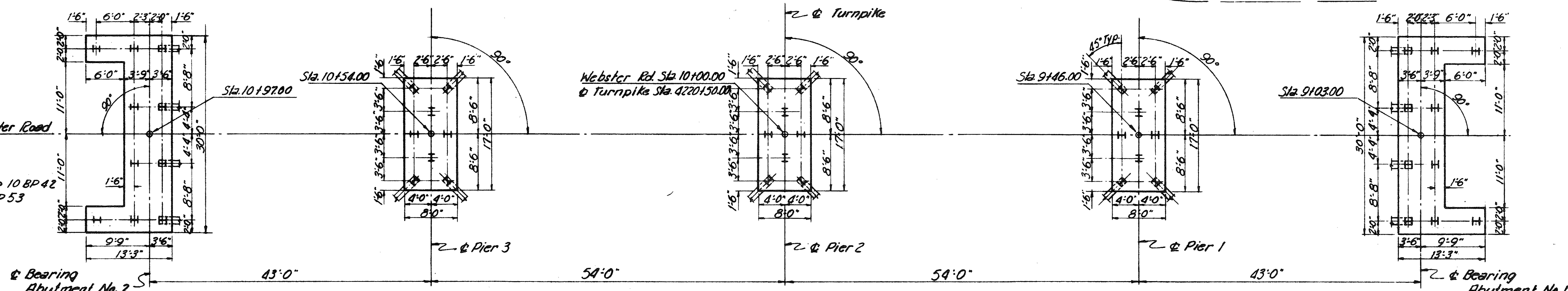


REFERENCES

Drawing Number	Title	Substructure Contractor			Superstructure	
		Steel Fabricator	Steel Erector	Floor Contractor		
SD1-A	Standard Abutment Details	✓	✓	✓	✓	✓
SD2	Standard Pier Details	✓	✓	✓		
SD3	Abutment Drainage Details	✓				
SD5	Standard Handrail, Bearing Devices And Miscellaneous Details	✓	✓	✓	✓	✓
SD6	Standard Diaphragm Details		✓	✓	✓	✓
SD7	Standard Type "A" Splices For 27 Wf Beams		✓	✓		
SD11-A	Type "X" And "Y" Expansion Joints Expanding Length To 100 Feet	✓	✓	✓	✓	✓
SD14	Standard Bridge Floor Cross Sections 20'-0" And 22'-0" Roadways	✓	✓	✓	✓	✓
SD4	Standard Pile Details	✓				



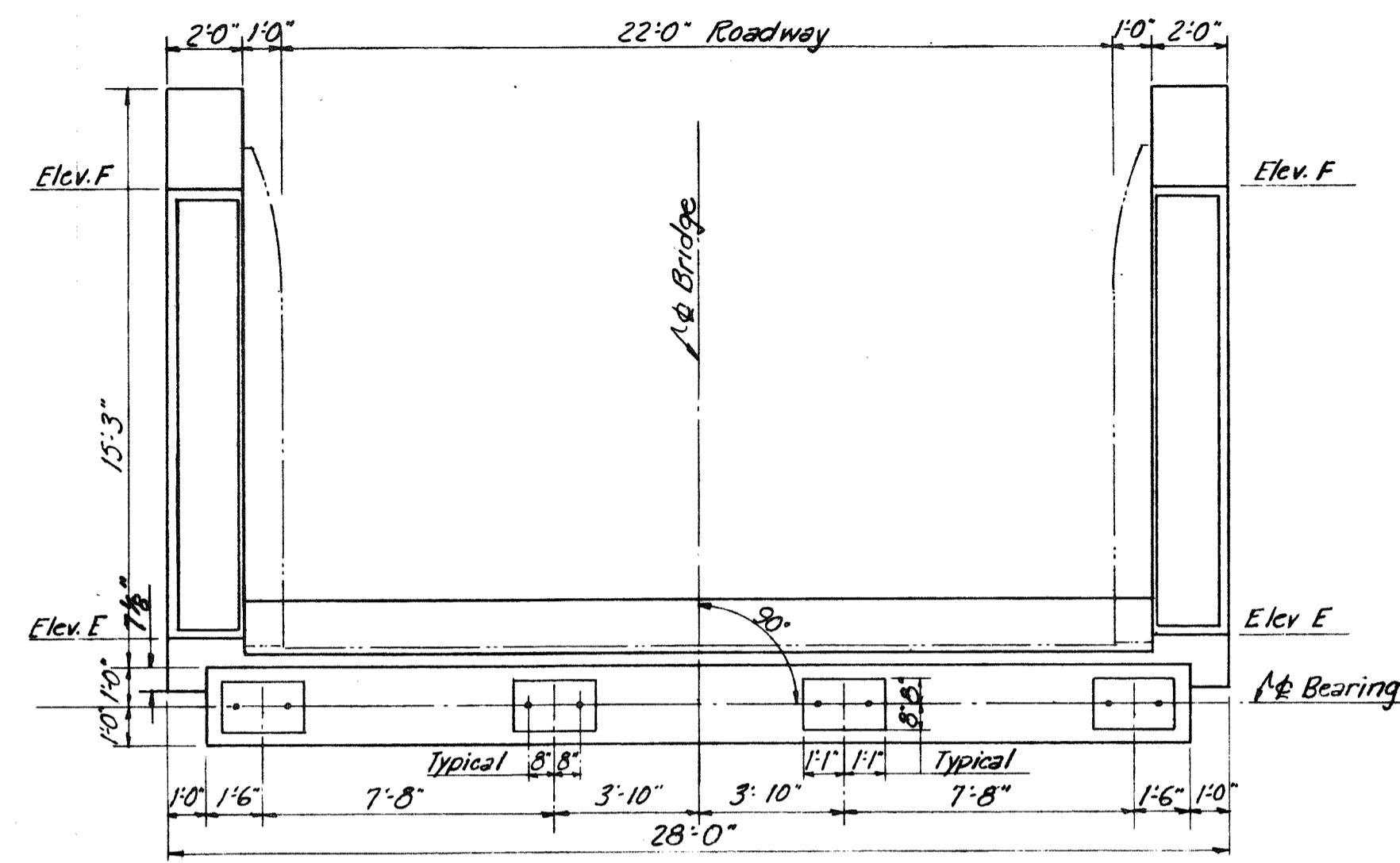
Note:
 All piles in Abutment Footings shall be 10 BP 42
 All piles in Pier Footings shall be 12 BP 53
 Typical pile batter: 3'/ft.



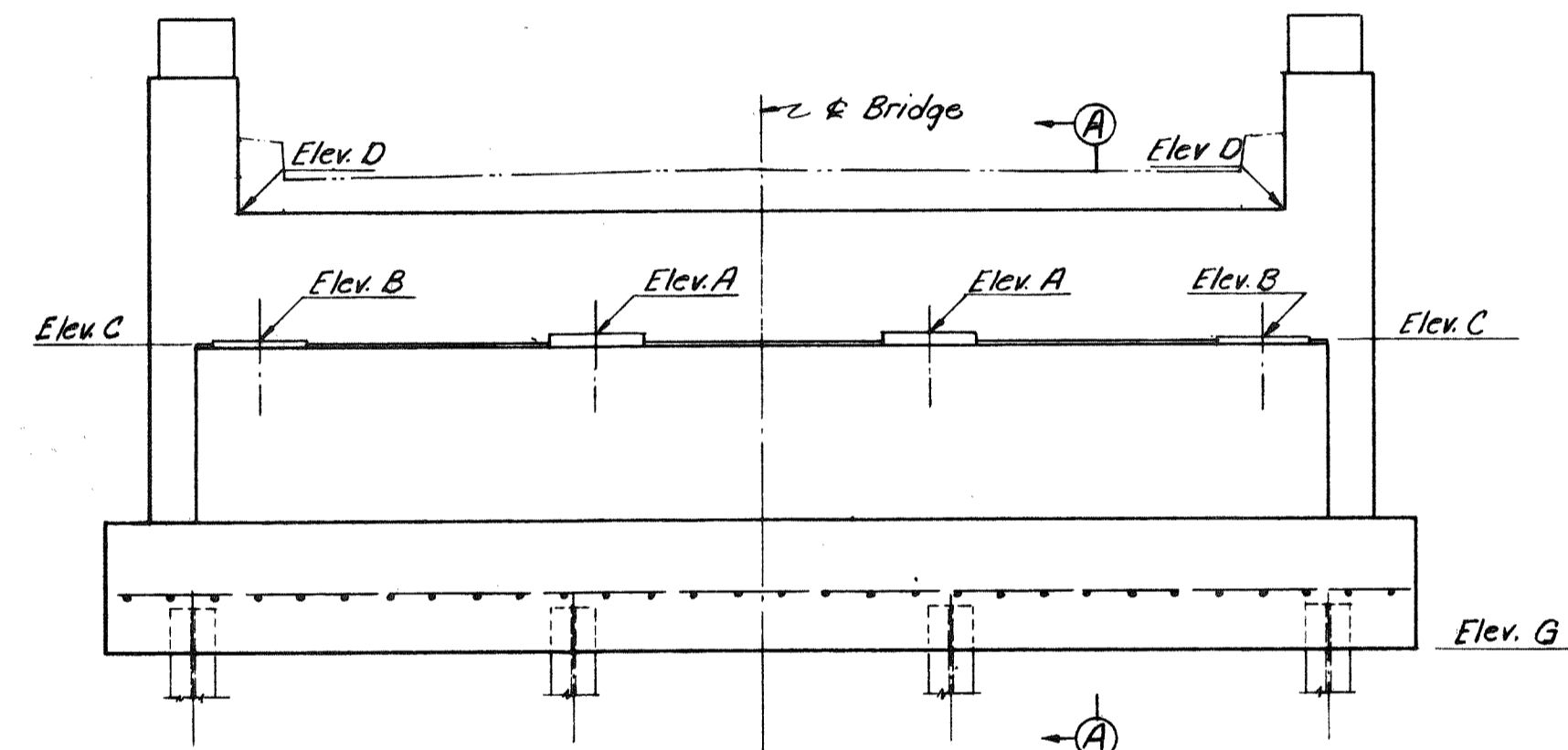
DRAWING 61.01.03

MADE	BY	DATE			
TRACED	AER	1-12-54			
CHECKED	M.J.G.	1-18-54	1	As-Built	NBH 27.56
IN CHARGE OF	IDS K		No.	REVISION	BY DATE

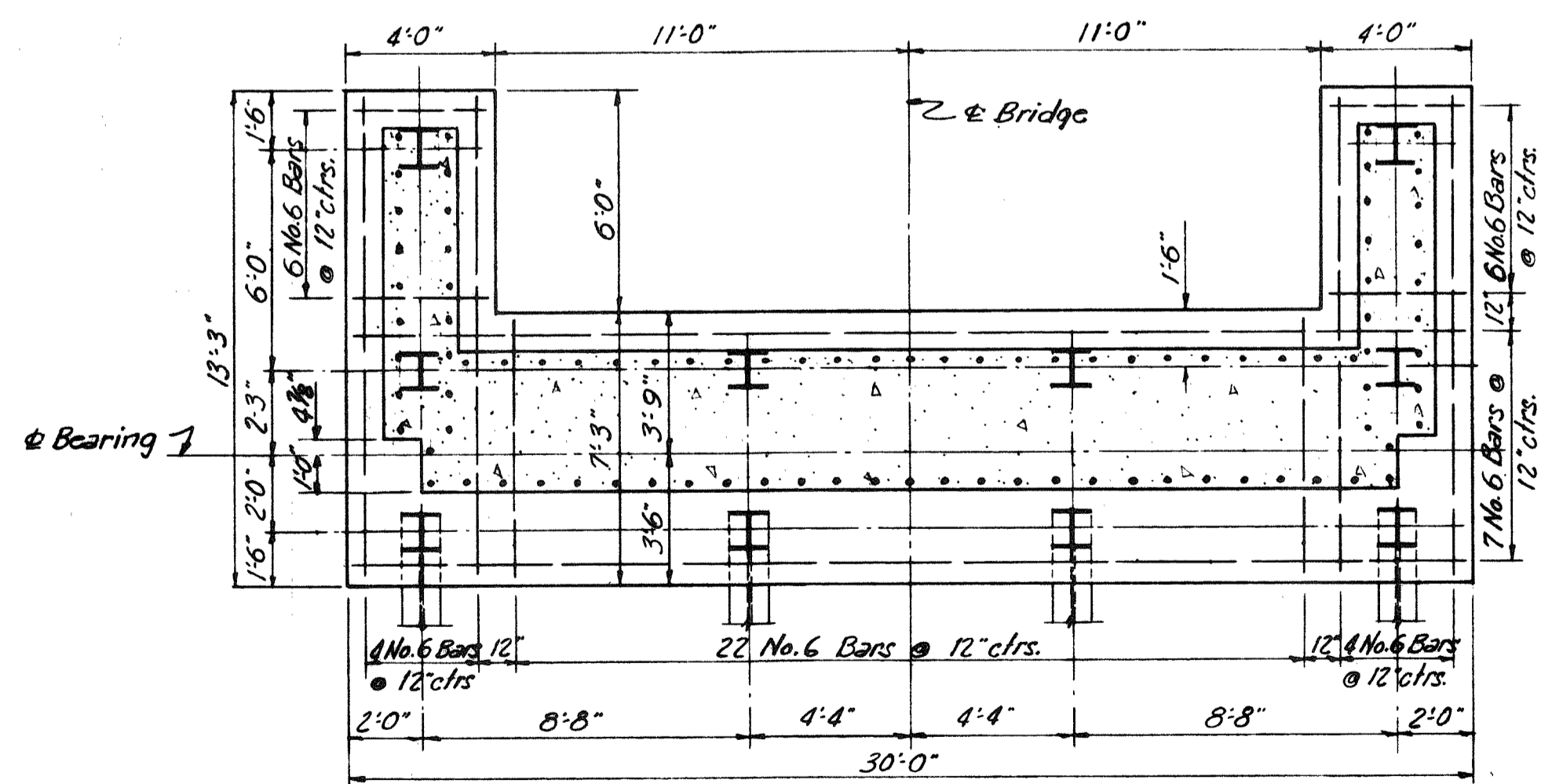
MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
SECTION 2— PORTLAND TO AUGUSTA
 STRUCTURE NO 61 TURNPIKE UNDER
WEBSTER ROAD
 STA. 4220 + 50
GENERAL PLAN AND ELEVATION
 HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS SCALE: As Shown
 NEW YORK KANSAS CITY CONTRACT NO. SHEET NO. 284 OF 282



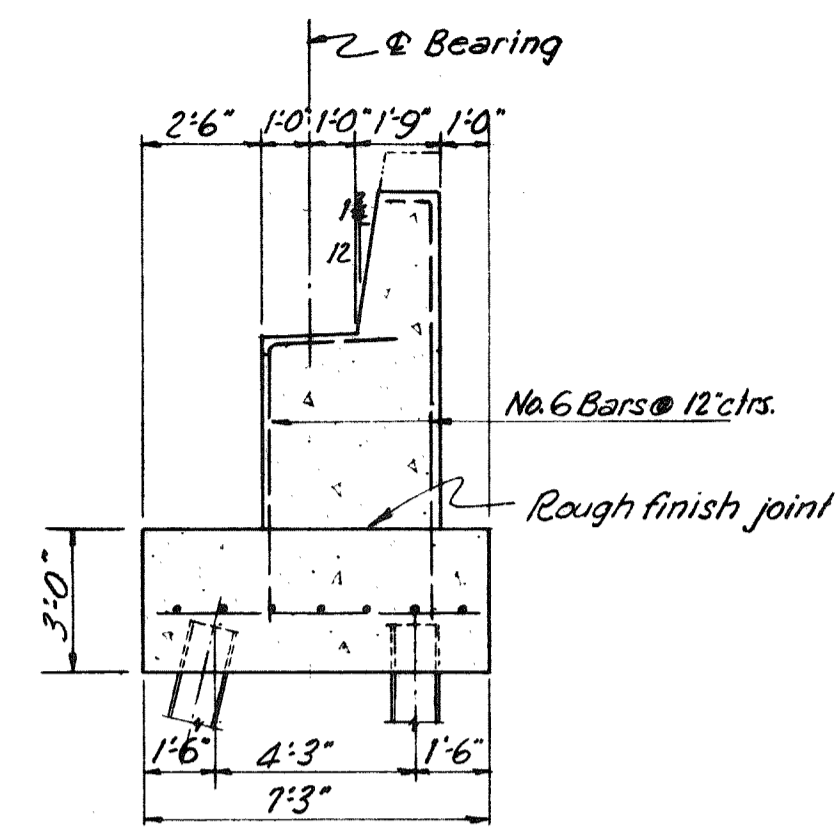
PLAN



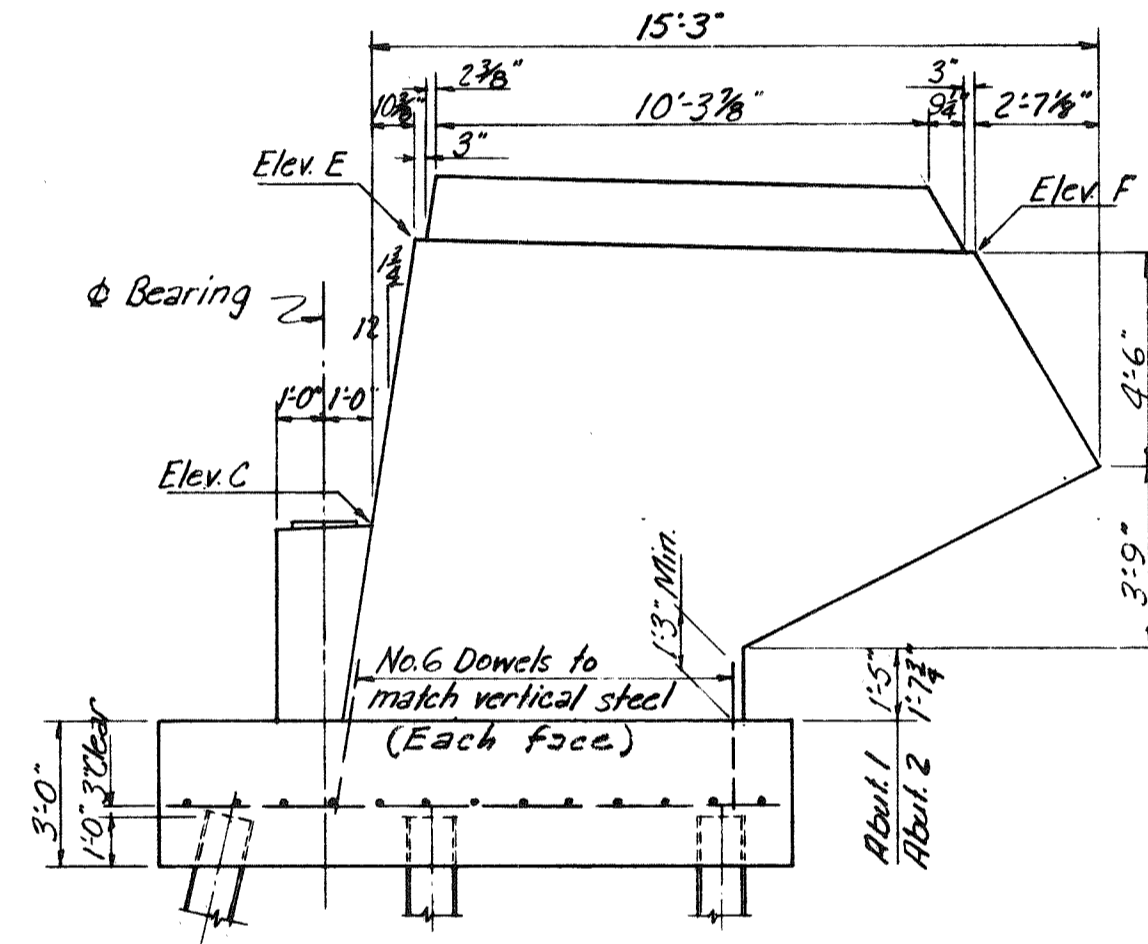
FRONT ELEVATION



FOOTING PLAN



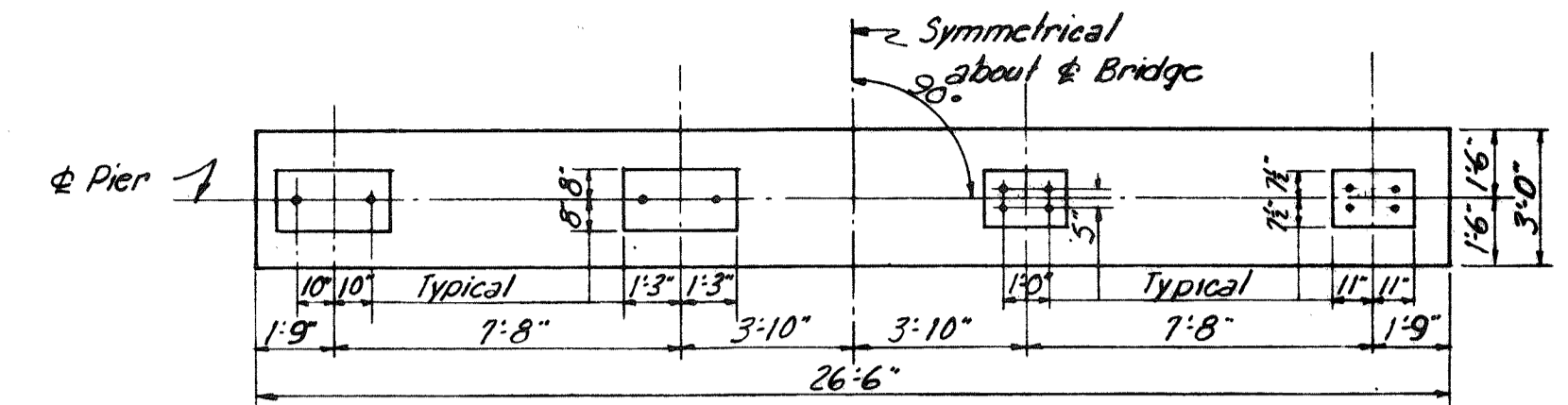
SECTION A-A



END ELEVATION

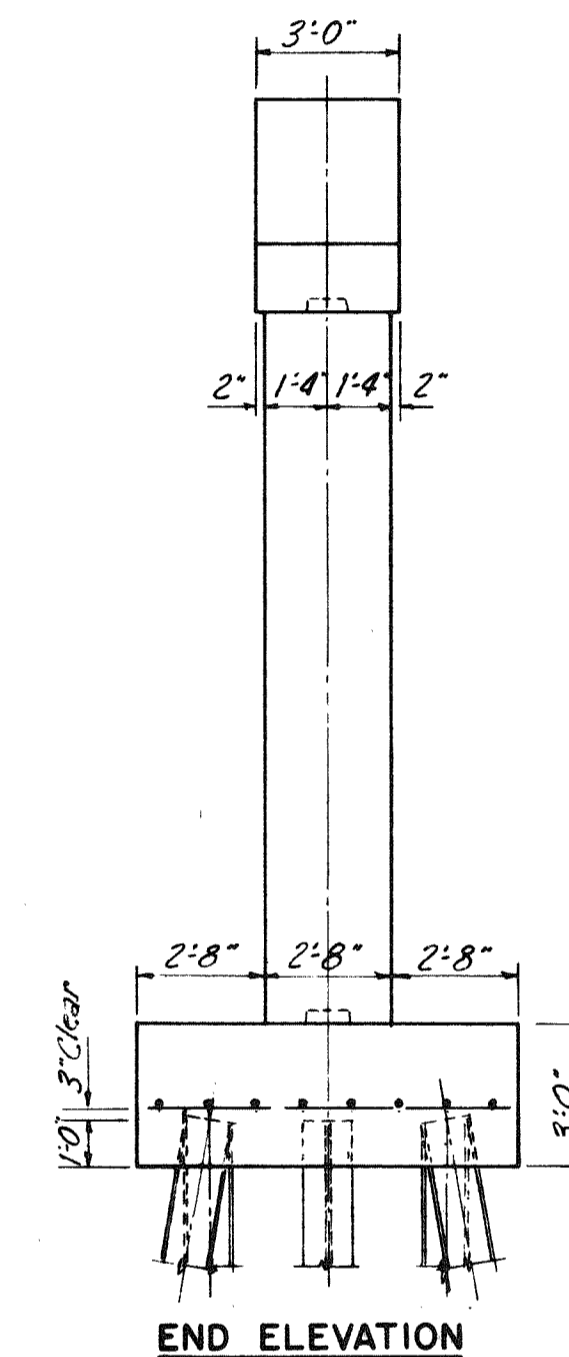
ABUTMENT ELEVATIONS		
Point	Abut 1	Abut 2
A	209.98	211.55
B	209.87	211.44
C	209.79	211.36
D	212.78	214.38
E	215.70	217.30
F	215.37	217.18
G	202.71	204.28

Note: All piles in Abutments shall be 10 BP22. Typical Batter - 3" per ft.

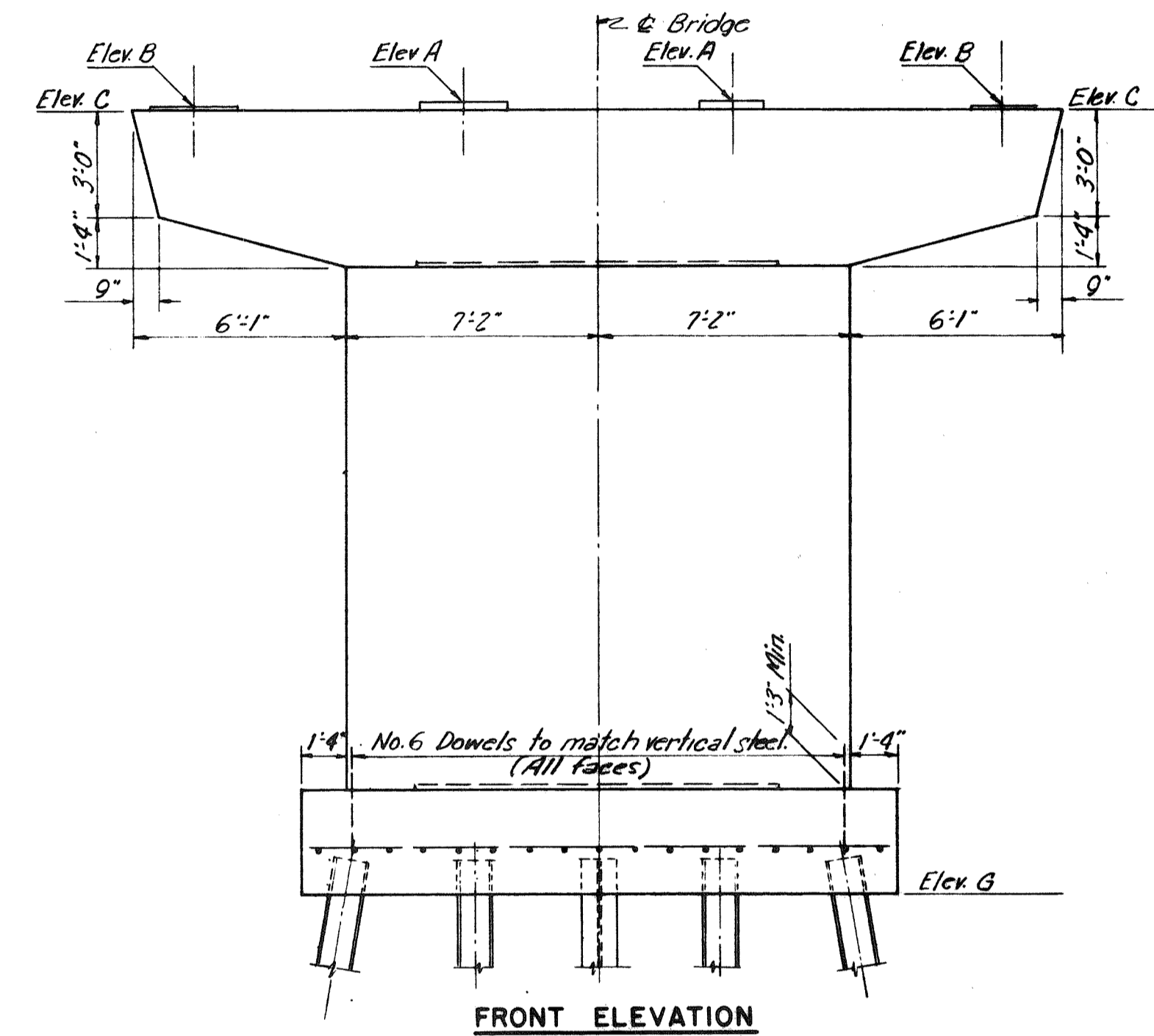


HALF CAP PLAN PIER 1 & 3

HALF CAP PLAN PIER 2



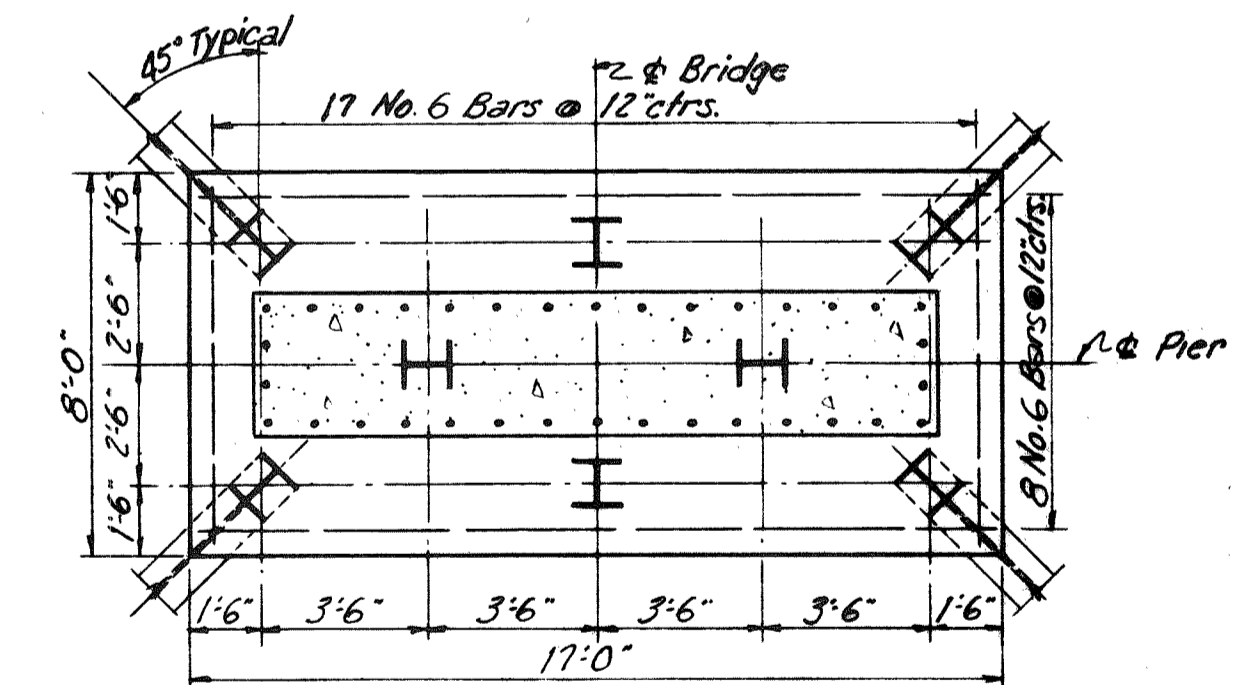
END ELEVATION



FRONT ELEVATION

PIER ELEVATIONS			
Point	Pier 1	Pier 2	Pier 3
A	210.91	211.62	211.79
B	210.80	211.52	211.68
C	210.78	211.50	211.66
G	188.50	191.50	188.50

Note: All piles in Pier footings shall be 12 BP53. Typical Batter - 3" per ft.



FOOTING PLAN

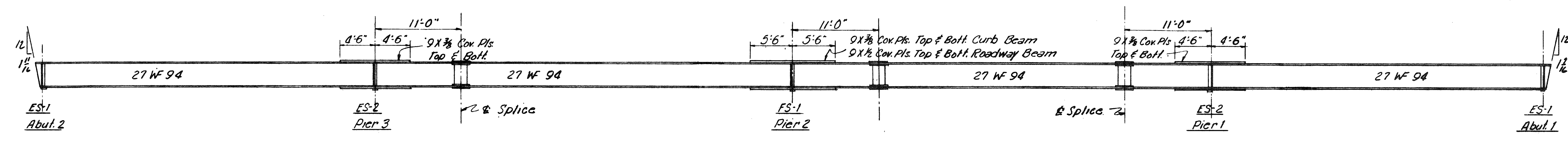
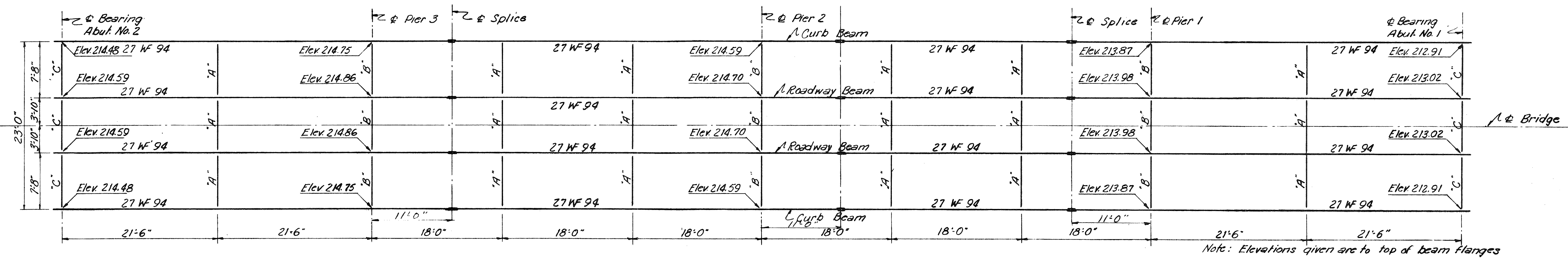
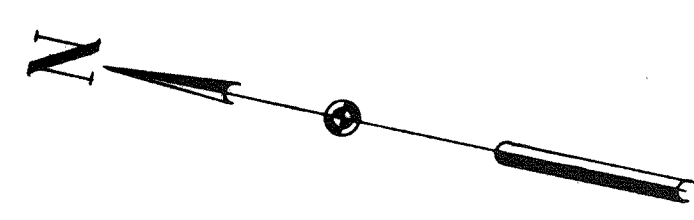
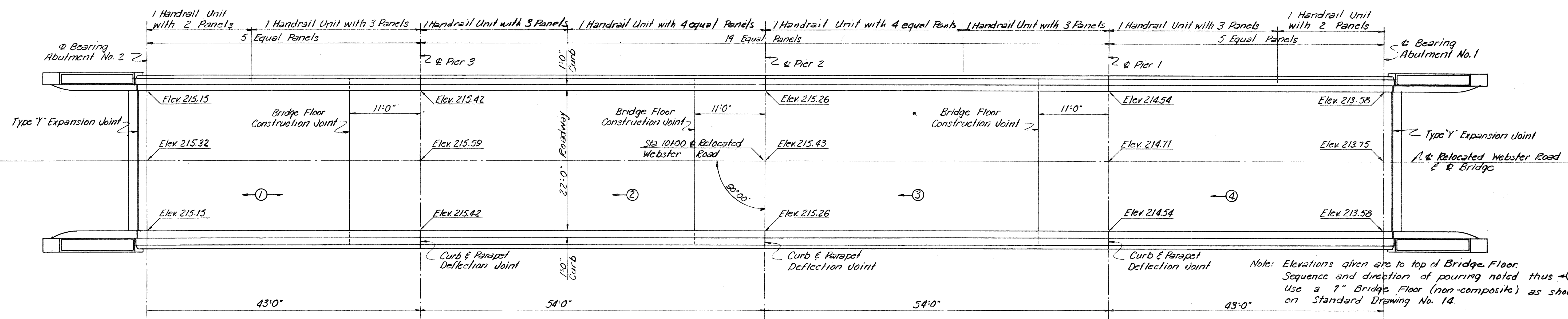
PIERS

DRAWING 61.02.03

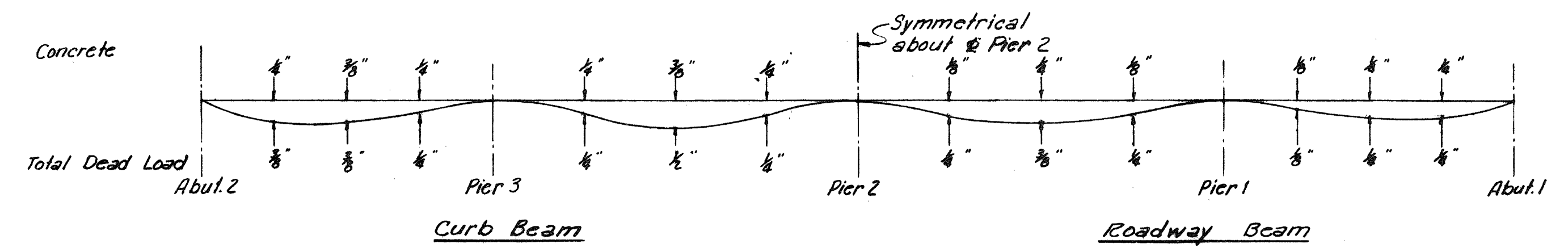
BY	DATE	REVISION	BY	DATE
MADE	REL	1-14-54		
TRACED				
CHECKED	H.J.G.	1-18-54	As-Built	HEW 2754
IN CHARGE OF	IDSK			

ABUTMENTS

MAINE TURNPIKE AUTHORITY	
SECTION 2- PORTLAND TO AUGUSTA	
STRUCTURE NO 61	TURNPIKE UNDER
WEBSTER ROAD	
STA. 4220 + 50.00	
ABUTMENTS AND PIERS	
HOWARD, NEEDLES, TAMMEN & BERGENDOFF	SCALE: 1/4" = 1'-0"
CONSULTING ENGINEERS	CONTRACT NO.
NEW YORK	KANSAS CITY
	SHEET NO. 285 OF 382



Note: All Bearing Stiffeners shall be 2# 7x4x 3/8. End slopes of beams are true with respect to the axis of the beams.



DRAWING 61.03.03	
BY	DATE
MADE AER	1-13-53
TRACED	
CHECKED H.J.G.	1-18-54
IN CHARGE OF I.D.S.K.	NO. REVISION BY DATE
	1 AS-BUILT ABN 2756

MAINE TURNPIKE AUTHORITY
SECTION 2— PORTLAND TO AUGUSTA
 STRUCTURE NO. 81 TURNPIKE UNDER
WEBSTER ROAD
 STA. 4220+50
SUPERSTRUCTURE
 HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 NEW YORK KANSAS CITY

SCALE: 1/8" = 1'-0"
 CONTRACT NO. _____
 SHEET NO. 28 OF 32

SPECIFICATIONS

DESIGN

"AAHSTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1989" WITH ALL THE INTERIMS.

CONTRACT

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAY AND BRIDGES, REVISION OF OCTOBER 1990

LIVE LOAD

H20 LOAD FACTOR

MATERIALS

CONCRETE

ALL CONCRETE SHALL BE CLASS AAA
n = 8 f_c = 1,800 P.S.I.

f'c = 4,500 P.S.I.

REINFORCING STEEL

ASTM A615 GRADE 60

f'b = 24,000 P.S.I.

STRUCTURAL STEEL

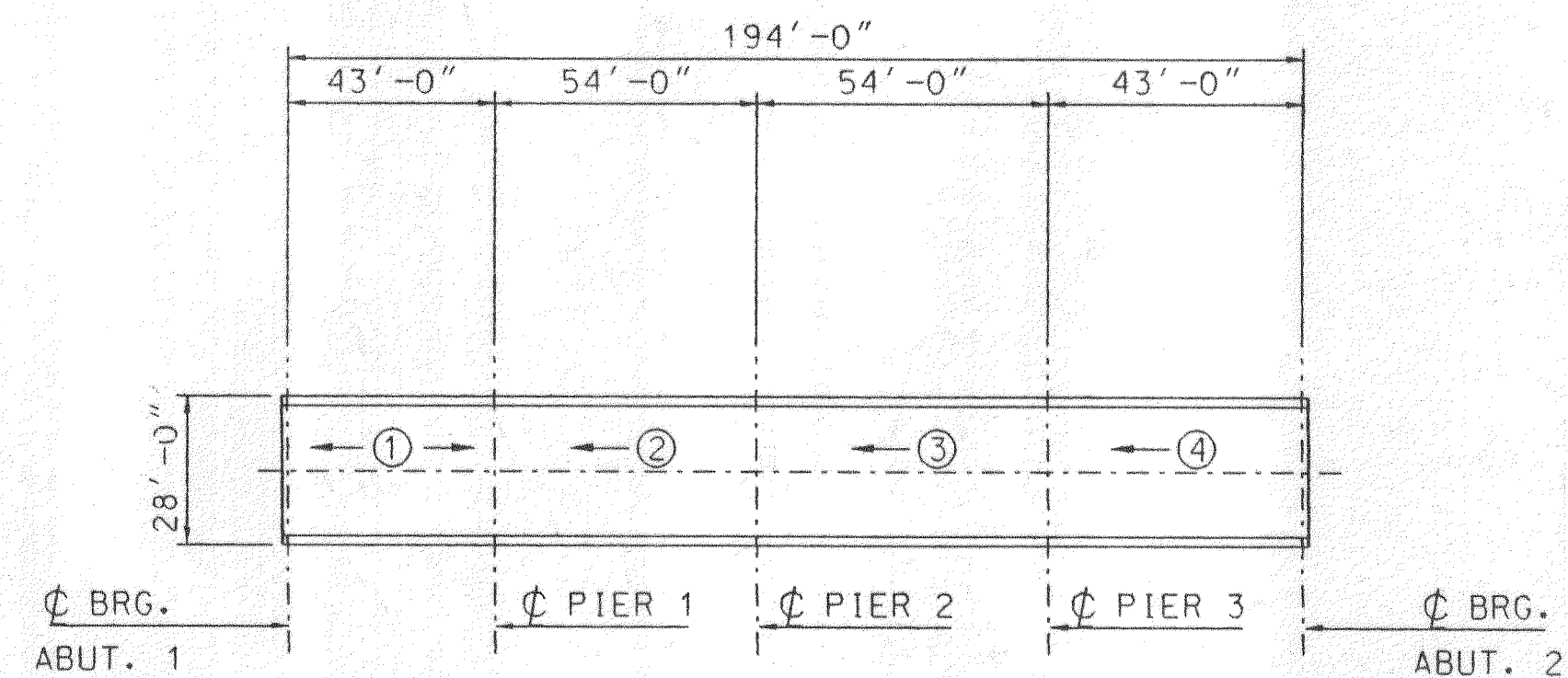
ASTM A709 GRADE 36

f'b = 20,000 P.S.I.

GENERAL NOTES

1. REINFORCING STEEL TO HAVE A CLEAR COVER AS SHOWN ON THE PLANS.
2. CHAMFER ALL EXPOSED EDGES 1" UNLESS OTHERWISE NOTED.
3. PLANS OF EXISTING BRIDGES ARE AVAILABLE AT THE AUTHORITY'S OFFICE AT 430 RIVERSIDE ST. PORTLAND, MAINE
4. SHIELDING REQUIRED DURING CONCRETE REMOVAL SHALL NOT PROJECT BELOW THE BOTTOM FLANGES OF STRINGERS. THE ESTIMATED QUANTITY OF SHIELDING IS THE MINIMUM REQUIRED AND IS BASED ON THE FOLLOWING LIMITS:
 - A. NORMAL TO ϕ BRIDGE: AS SHOWN ON THE PLANS
 - B. PARALLEL TO ϕ BRIDGE: ABUTMENT TO ABUTMENT
5. THE CONTRACTOR HAS THE OPTION OF SUBSTITUTING CLASS A CONCRETE FOR ITEM 502.21
6. FOR STEEL REINFORCING SCHEDULE, SEE SHEET S8 AND S9.
7. ALL STEEL REINFORCING SHALL BE EPOXY COATED.
8. DO NOT COVER DECK DRAINS WITH MEMBRANE. DEPRESS DRAINS 1/2" BELOW TOP OF SLAB. PROVIDE 23 GAUGE GALVANIZED SCREENS (1/8" MESH) OVER DRAINS. PAYMENT INCIDENTAL TO CONTRACT ITEM 502.263
9. THE AUTHORITY'S PERSONEL WILL PROFILE THE TOPS OF ALL STRINGERS BEFORE THE FORM WORK IS STARTED AND SUPPLY THE CONTRACTOR WITH FINAL BOTTOM OF SLAB ELEVATIONS.
10. THE CONCRETE DECK SURFACE SHALL BE GIVEN A SMOOTH BULL OR WOOD FINISH .

ITEM	DESCRIPTION	UNIT	QUANTITIES
			WEBSTER RD.
202.12	Removing Existing Structural Concrete	C.Y.	20
202.122	Removing Existing Superstructure Concrete	S.Y.	582
202.20	Protective Shield	S.Y.	712
403.13	Dense Graded Bit. Pav't For Bridges	Ton	44'
502.21	Structural Concrete, Abutments, Retaining Walls	C.Y.	18
502.23	Structural Concrete, Piers	C.Y.	3
502.263	Structural Concrete Roadway and Sidewalk on Steel Bridge. (162 C.Y.)	L.S.	1
503.14	Epoxy Coated Reinf. Steel- Fabricated & Delivered	Lb.	50,000
503.15	Epoxy Coated Reinf. Steel- Placing	Lb.	50,000
		L.S.	1
504.72	Jacking Existing Superstructure	L.S.	1
505.083	Stud Welded Shear Connectors (1320 Each)	L.S.	1
507.092	Aluminum Bridge Railing, 2 Bar	L.F.	393
508.13	Membrane Waterproofing (531.70 S.Y.)	L.S.	1
			1
515.20	Protective Coating for Concrete Surfaces	S.Y.	335
515.201	Concrete Protective Coating	S.Y.	219
520.22	Expansion Device - Compression Seal	EA.	2
523.103	Pot Bearings	EA.	20
609.15	Sloped Curb Type 1	L.F.	16



WEBSTER ROAD

DECK PLACEMENT DETAILS

N.T.S.

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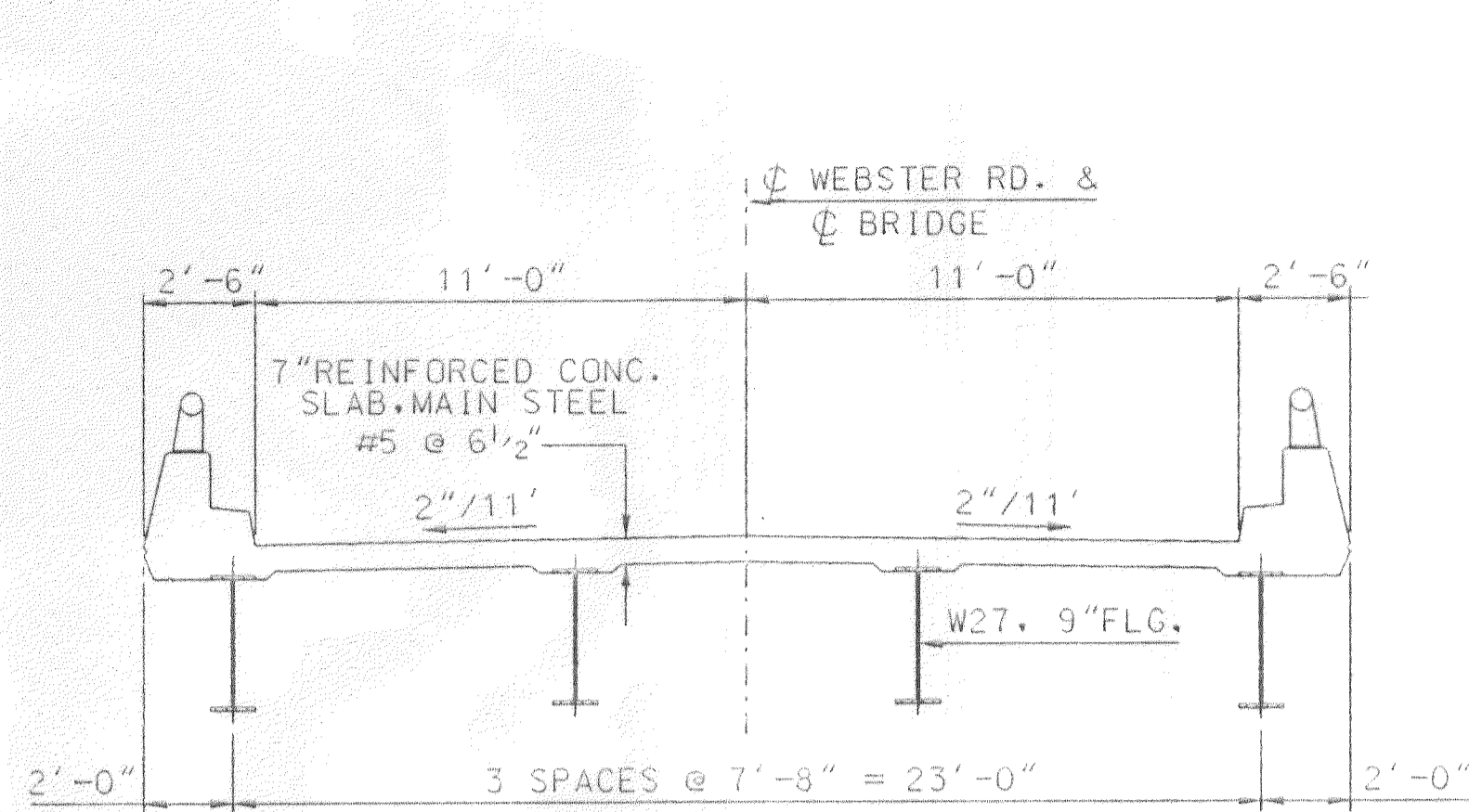
				By	Date
				Designed	
				Drawn	
				Checked	
				In Charge Of:	
No.	Revision	By	Date		
	REISSUE	CFM	5/94		

Maine Turnpike Authority
Maine Turnpike

HNTB HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

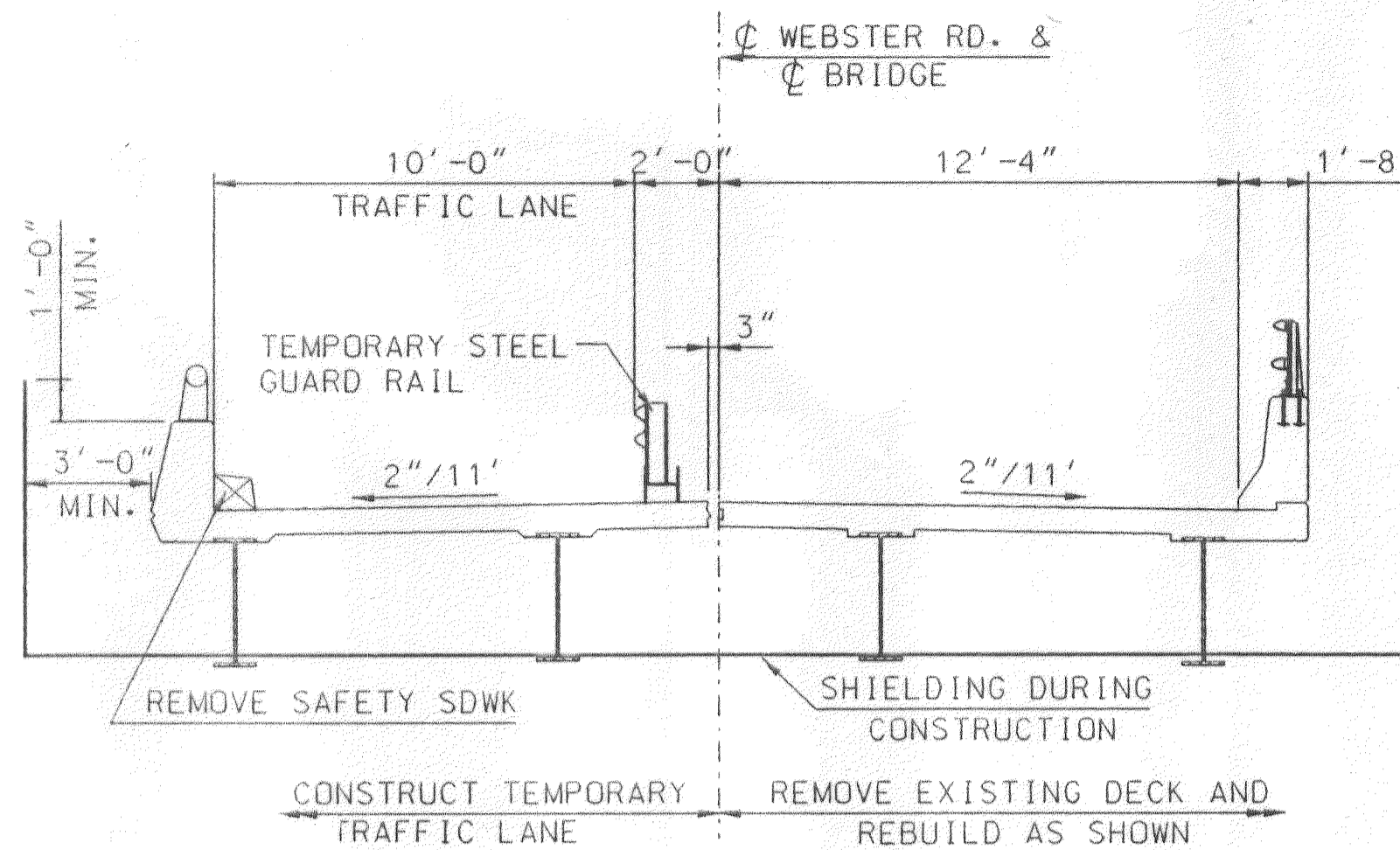
GENERAL NOTES,
SPECIFICATIONS,
QUANTITIES & DECK
PLACEMENT DETAILS

Contract 94.7 Sheet No. 51
58 of 76



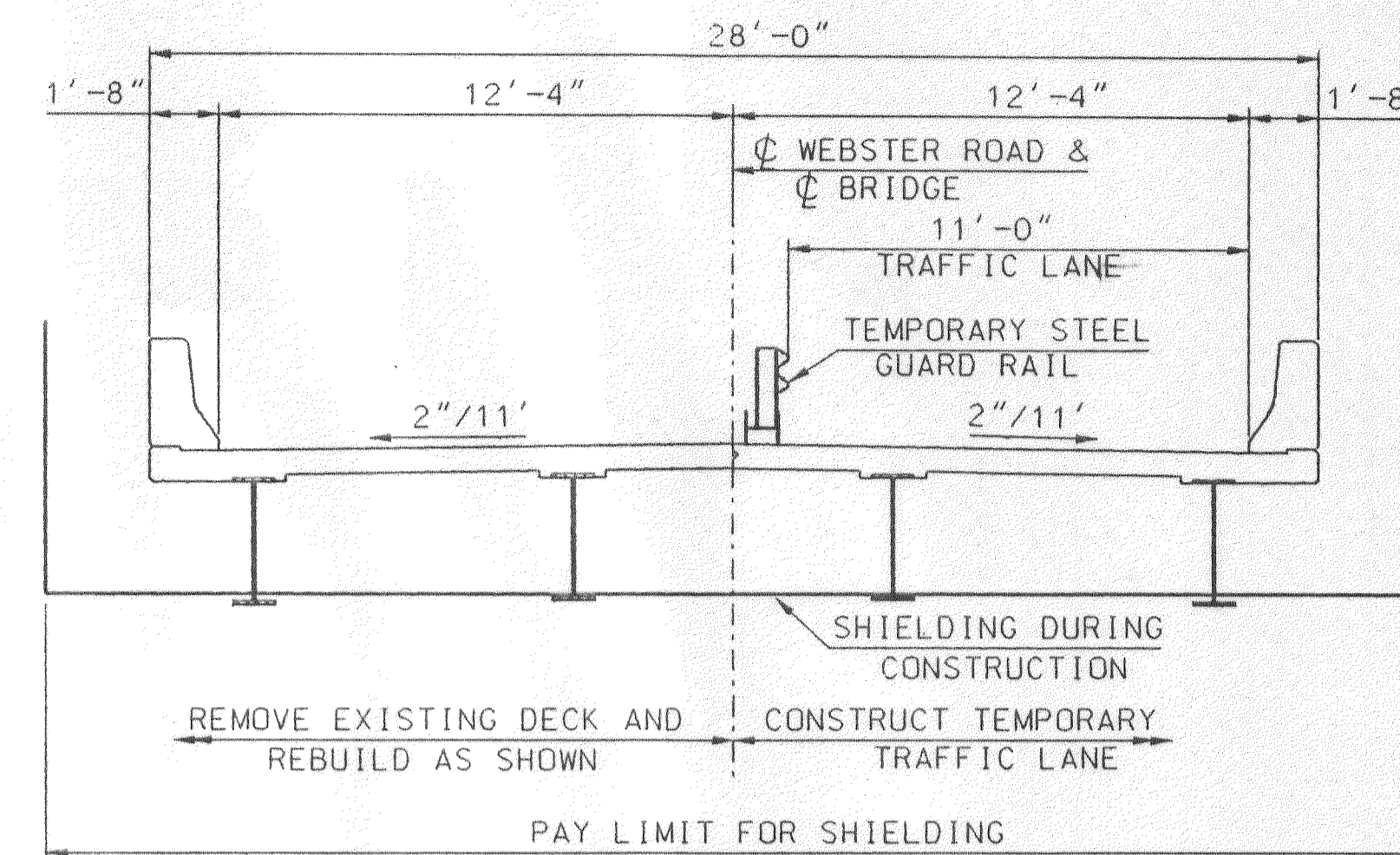
EXISTING DECK

1/4" = 1'-0"



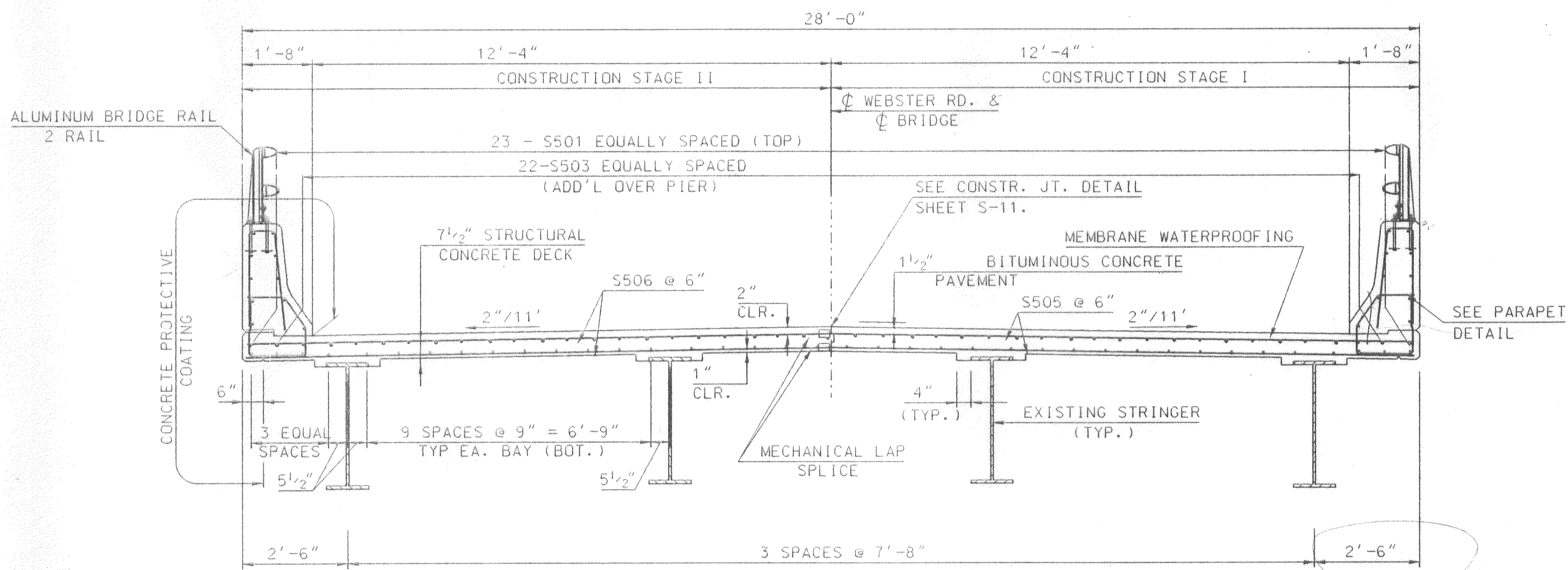
CONSTRUCTION - STAGE I

1/4" = 1'-0"



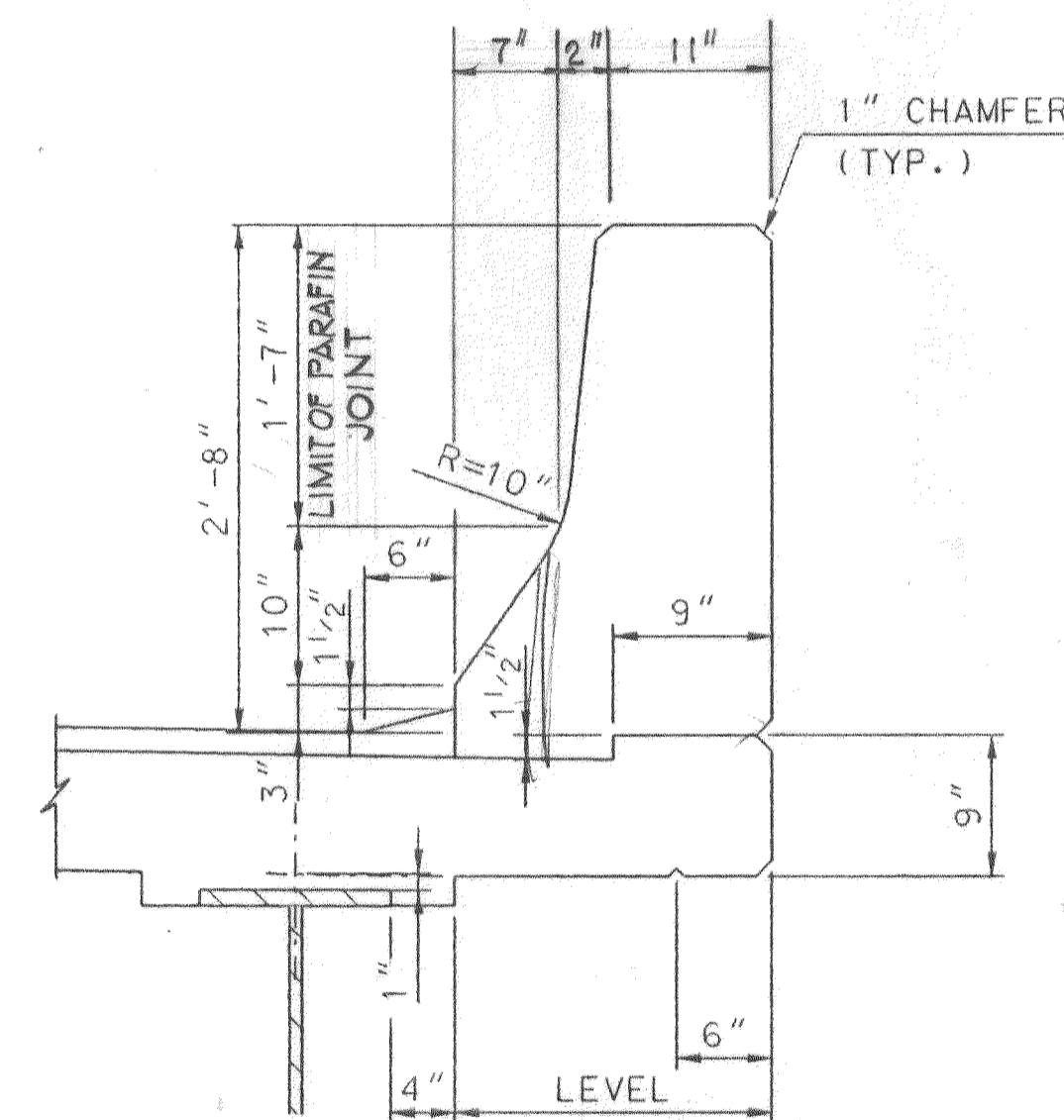
CONSTRUCTION - STAGE II

PAY LIMIT FOR SHIELDING



SECTION A-A

1/2" = 1'-0"



PARAPET DETAIL

1" = 1'-0"

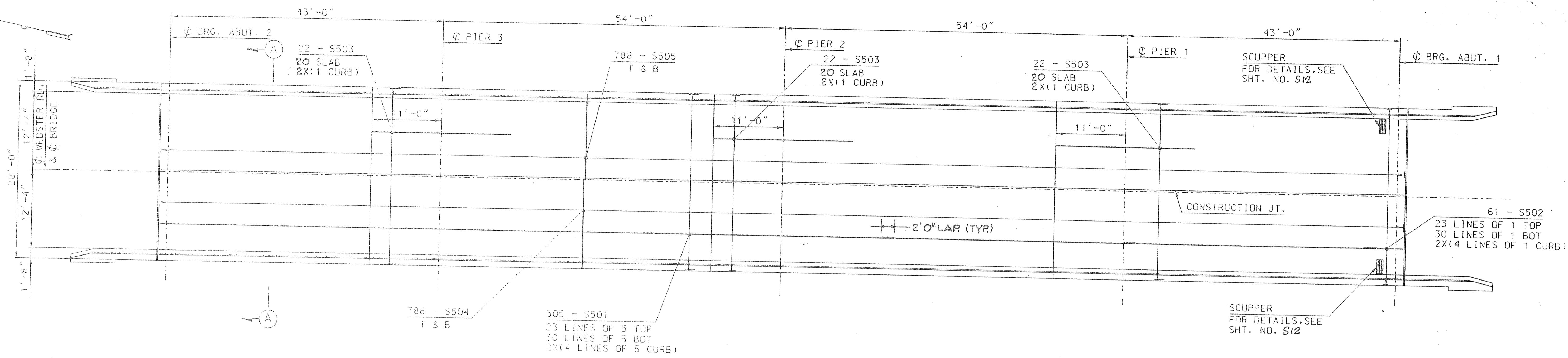
NOTE:

- MECHANICAL COUPLING DEVICE SHALL DEVELOP A MINIMUM OF 125 PERCENT OF YIELD STRENGTH OF REINFORCEMENT STEEL. THE COUPLING DEVICES SHALL BE PROTECTED FROM CORROSION BY EITHER GALVANIZING OR EPOXY COATING.

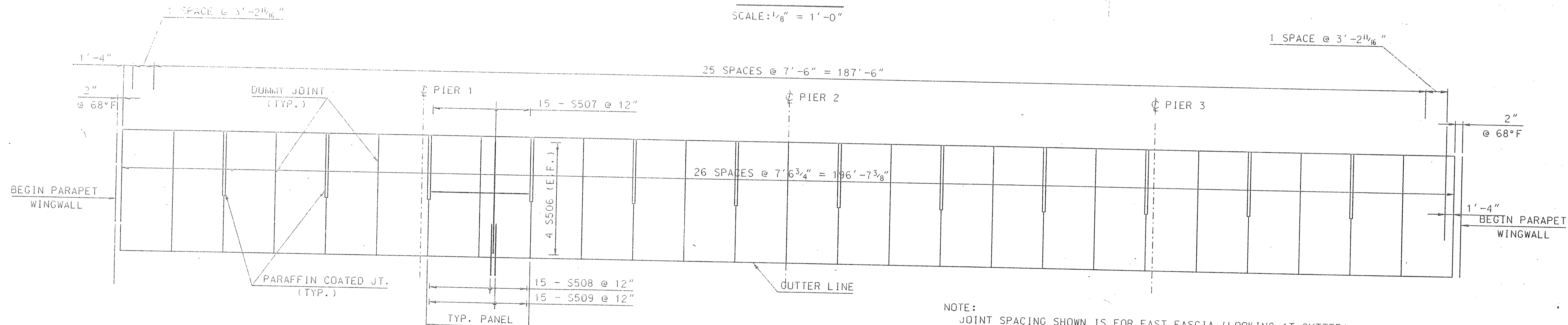
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				By	Date
			Designed		
			Drawn	E.G.	4/94
			Checked		
REISSUE	CFM	5/94			
No.	Revision	By	Date	In Charge Of:	

Maine Turnpike Authority Maine Turnpike	
WEBSTER ROAD OVER MAINE TURNPIKE CONSTR. STAGING	
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS	
Contract 94.7	Sheet No. S-3 60 of 76



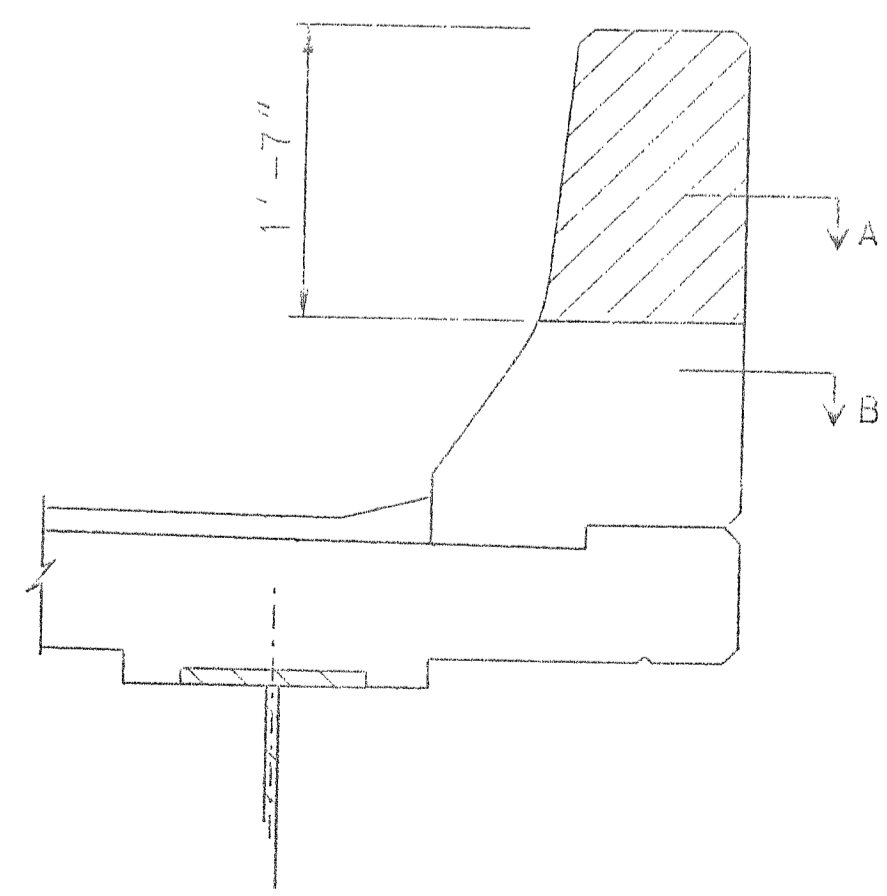
DECK PLAN
SCALE: 1/8" = 1'-0"



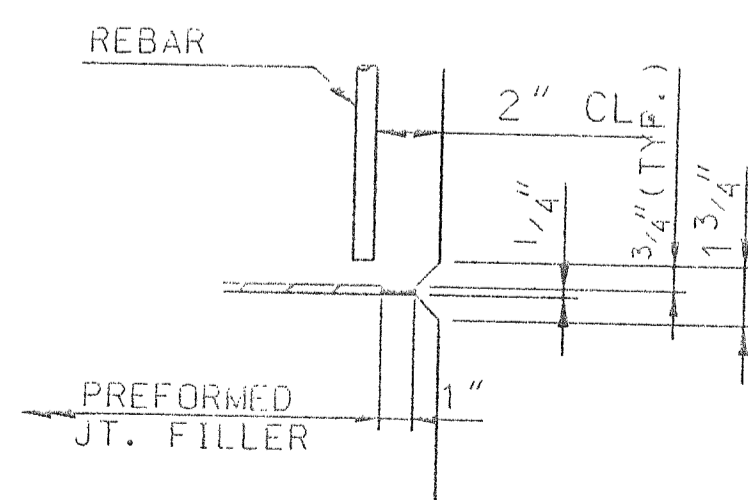
TYPICAL PARAFFIN JOINT SPACING

1/8" = 1'-0" (HORIZ.)
N.T.S. (VERT.)

NOTE:
JOINT SPACING SHOWN IS FOR EAST FASCIA (LOOKING AT GUTTER)
WEST FASCIA SIMILAR (LOOKING AT FASCIA)



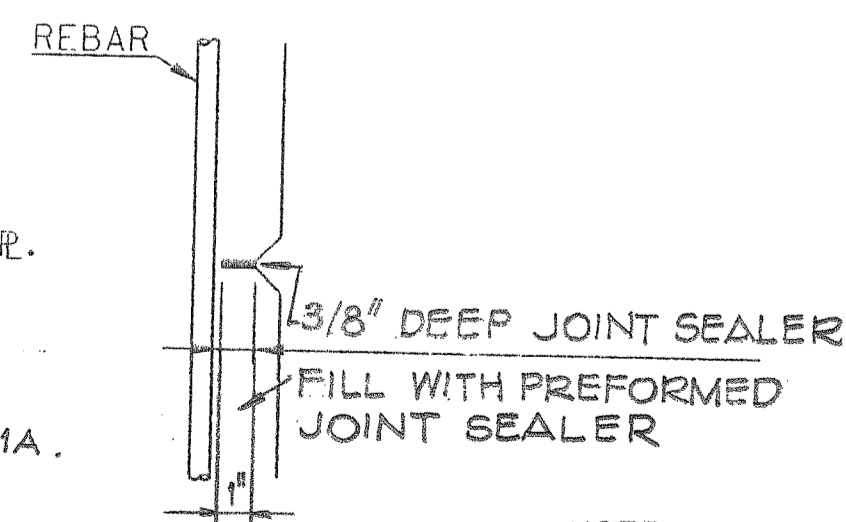
PARAPET DETAIL
3/4" = 1'-0"



SECTION A-A
N.T.S.

NOTES:

1. CONC. PLACED SIMULTANEOUSLY ON BOTH SIDES OF JOINT.
2. PREFORMED JOINT FILLER MAY BE SUPPORTED WITH A THIN STEEL R. REMOVE R CAREFULLY WHILE THE CONCRETE IS PLASTIC. PREFORMED JOINT FILLER SHALL CONFORM TO ASTM DESIGNATION D1751.
3. JOINT SEALER SHALL BE SIKA FLEX 1A.
4. PREFORMED JOINT FILLER AND JOINT SEALER SHALL BE INCIDENTAL TO ITEM 502.2G3, STRUCTURAL CONCRETE AND PARAPET ON STEEL BRIDGES.



SECTION B-B
N.T.S.

NOTE:
SECTION B ALSO APPLIES TO DUMMY JOINT LOCATIONS.

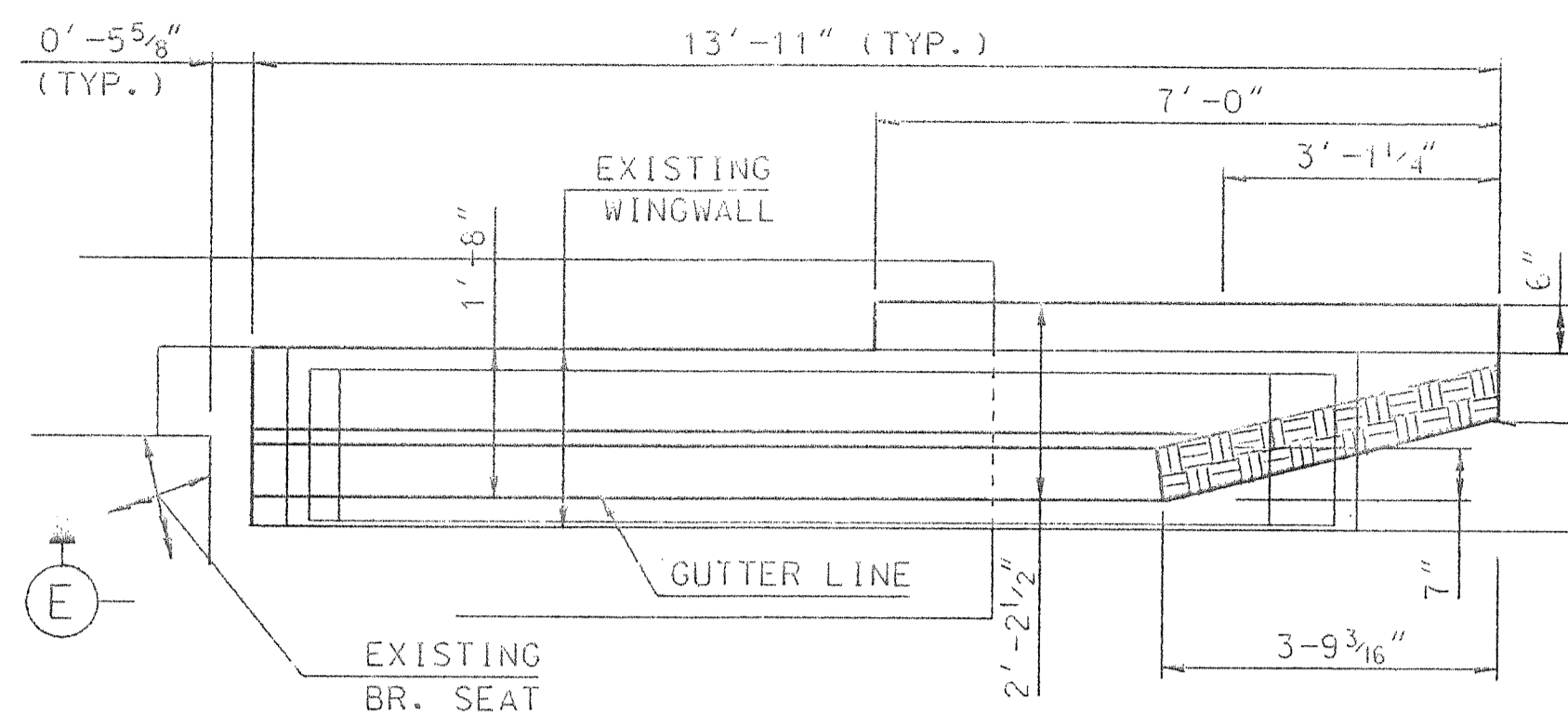
NOTES :

1. FOR GENERAL NOTES, SEE SH. NO. S1
2. FOR Grd Rail DETAILS, SEE SH. NO. S11
3. FOR BRIDGE RAILING DETAILS, SEE SH. NO. S13
4. FOR CONSTRUCTION JOINT DETAIL, SEE SH. NO. S-11

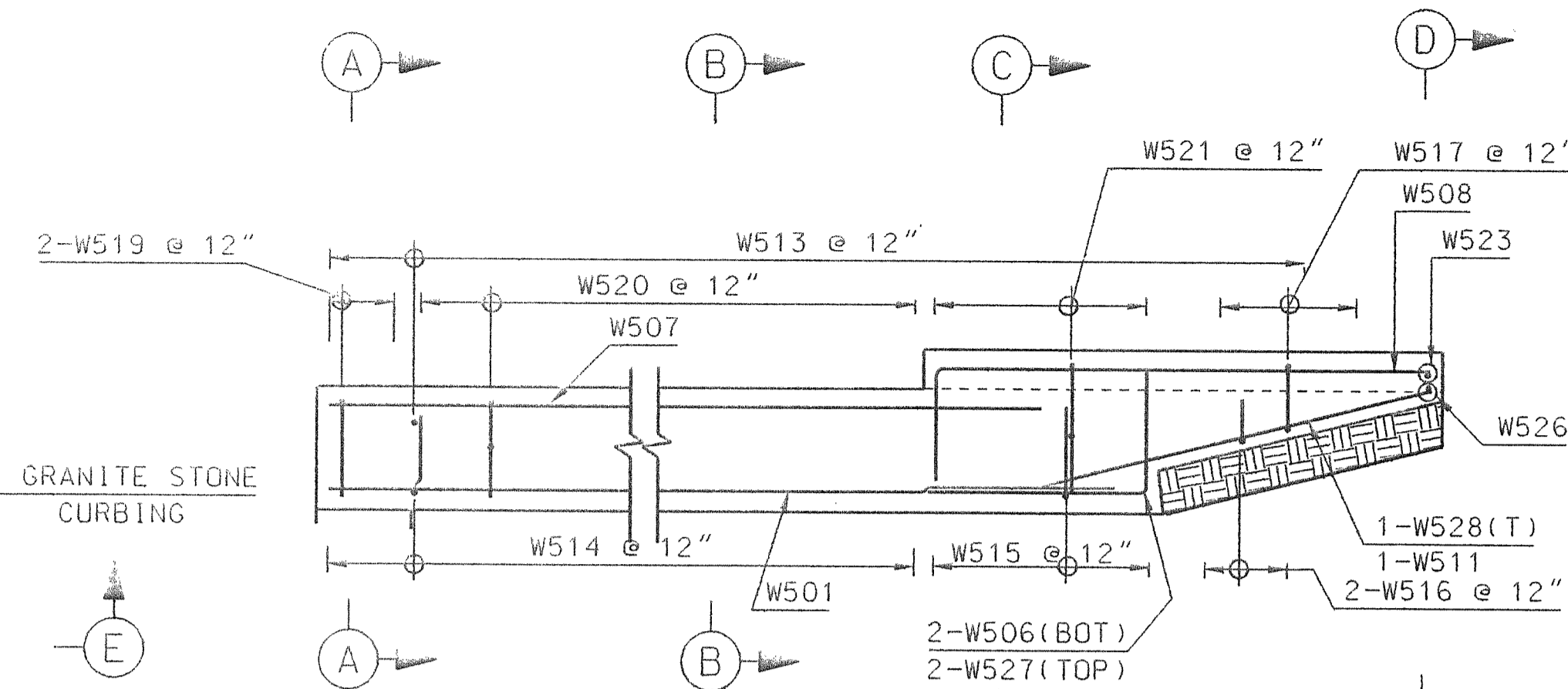
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Maine Turnpike Authority Maine Turnpike	
WEBSTER ROAD OVER MAINE TURNPIKE DECK REINFORCING	
HOWARD NEEDLES TAMMEN & BERGENOFF ARCHITECTS ENGINEERS PLANNERS	
Contract 94.7	Sheet No. 52 59 of 76

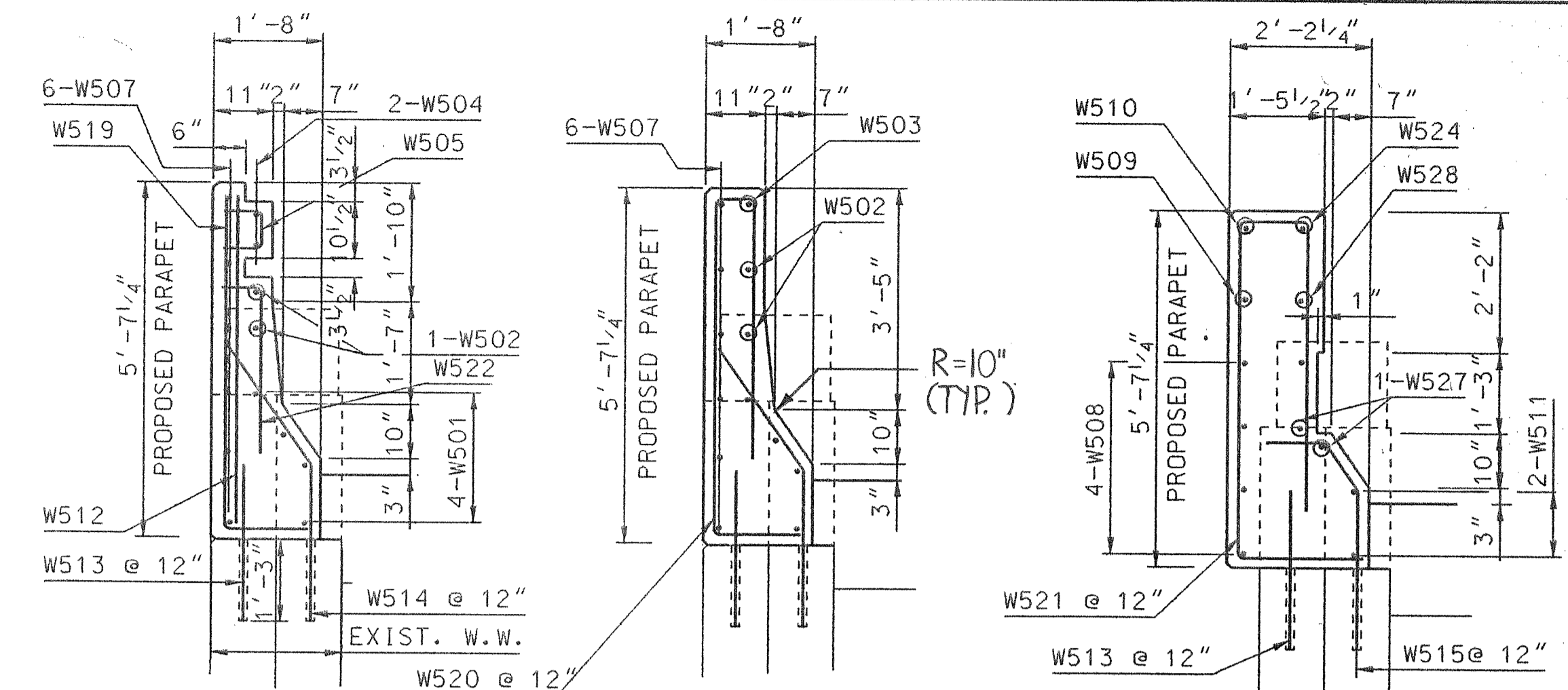
No.	Revision	By	Date	In Charge Of:
	REISSUE	CFM	SPH	
			Designed	By Date
			Drawn	E.G. 4/94
			Checked	



PLAN



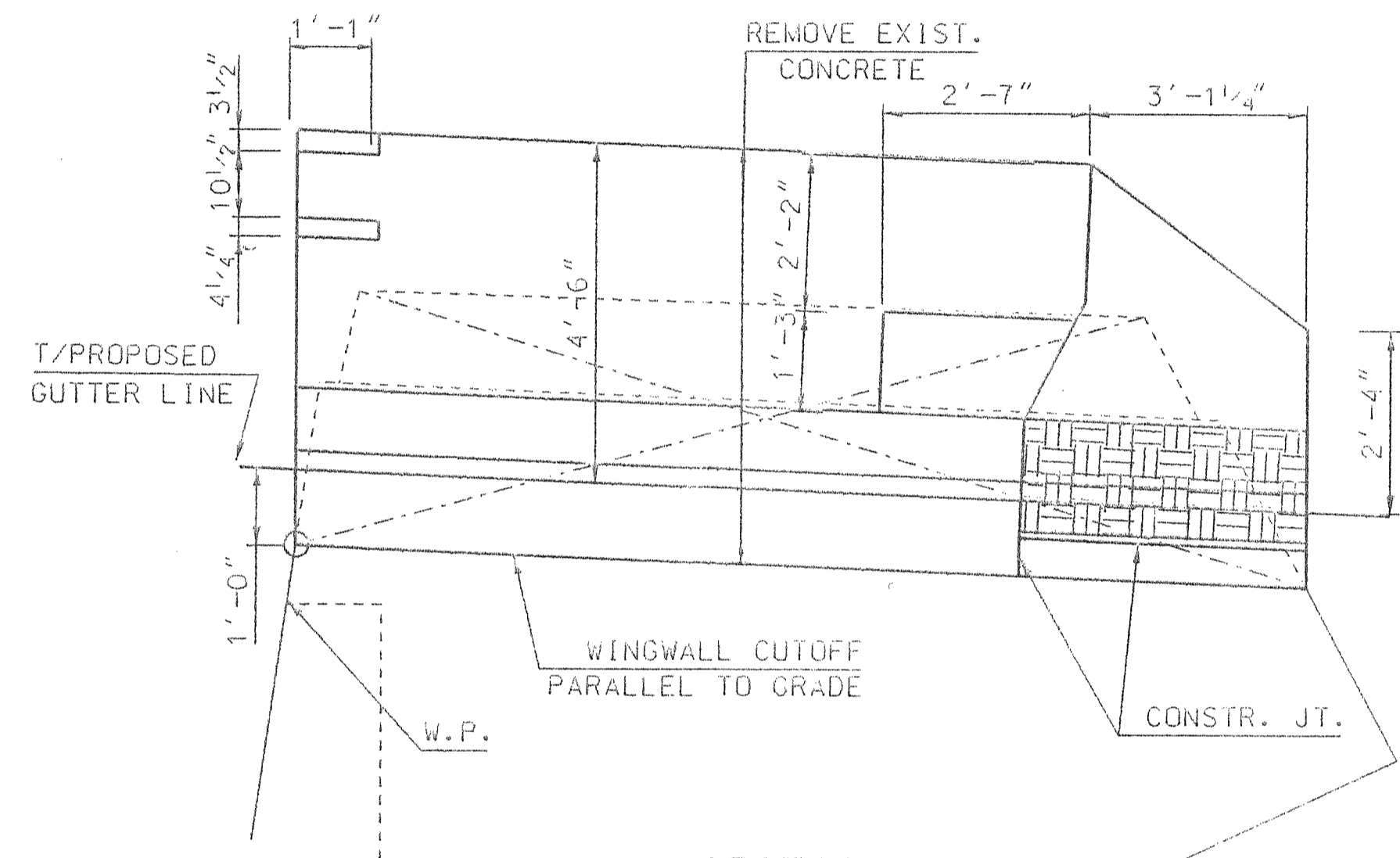
PLAN



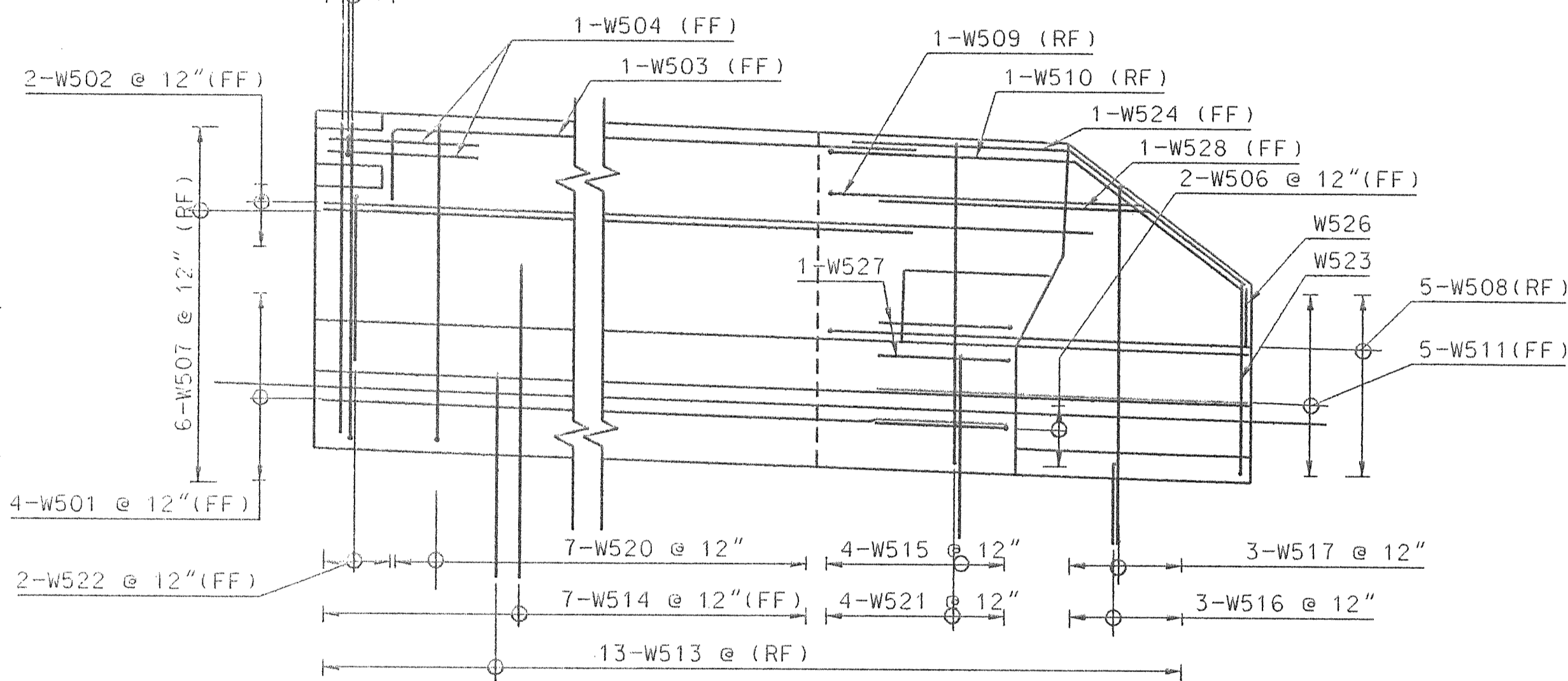
SECTION A - A

SECTION B - B

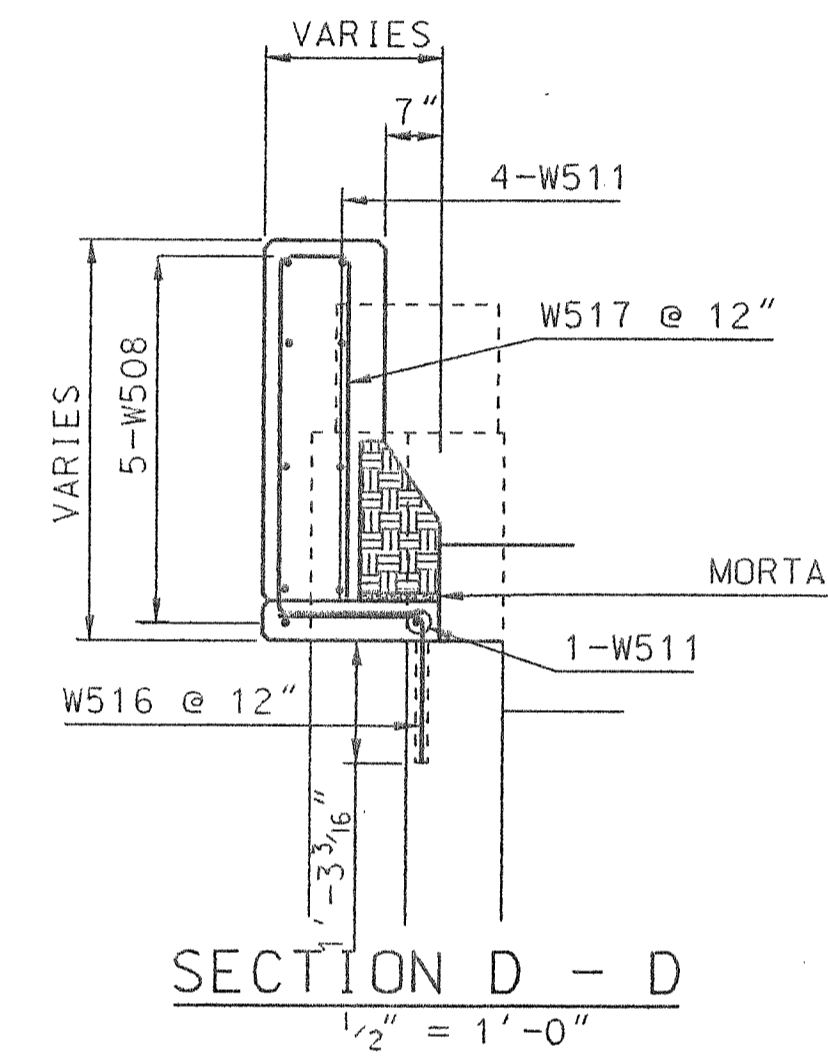
SECTION C - C



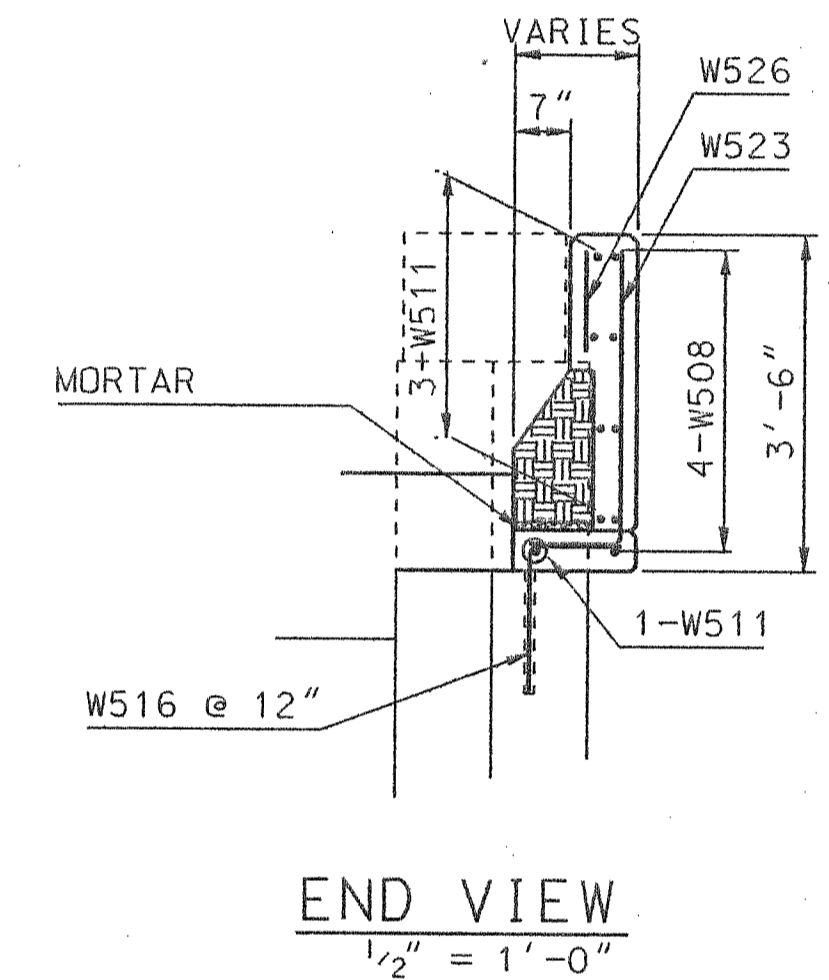
SECTION E - E
WINGWALL MODIFICATION



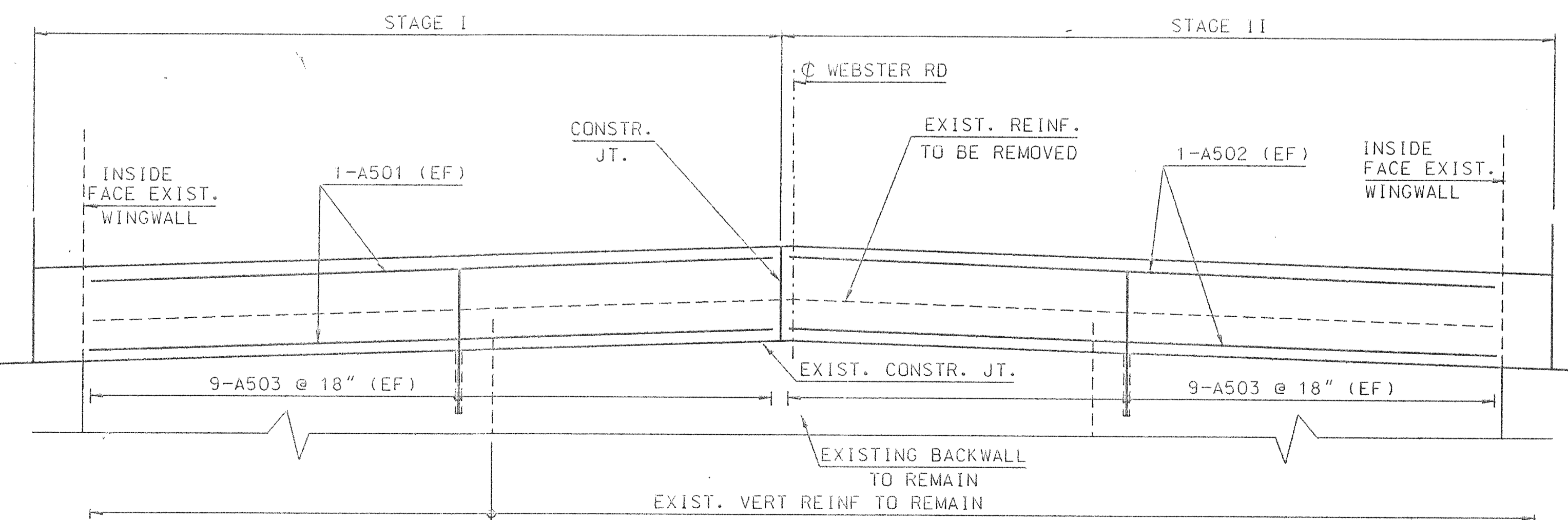
ELEVATION AT GUTTER
WINGWALL REINFORCING



SECTION D - D

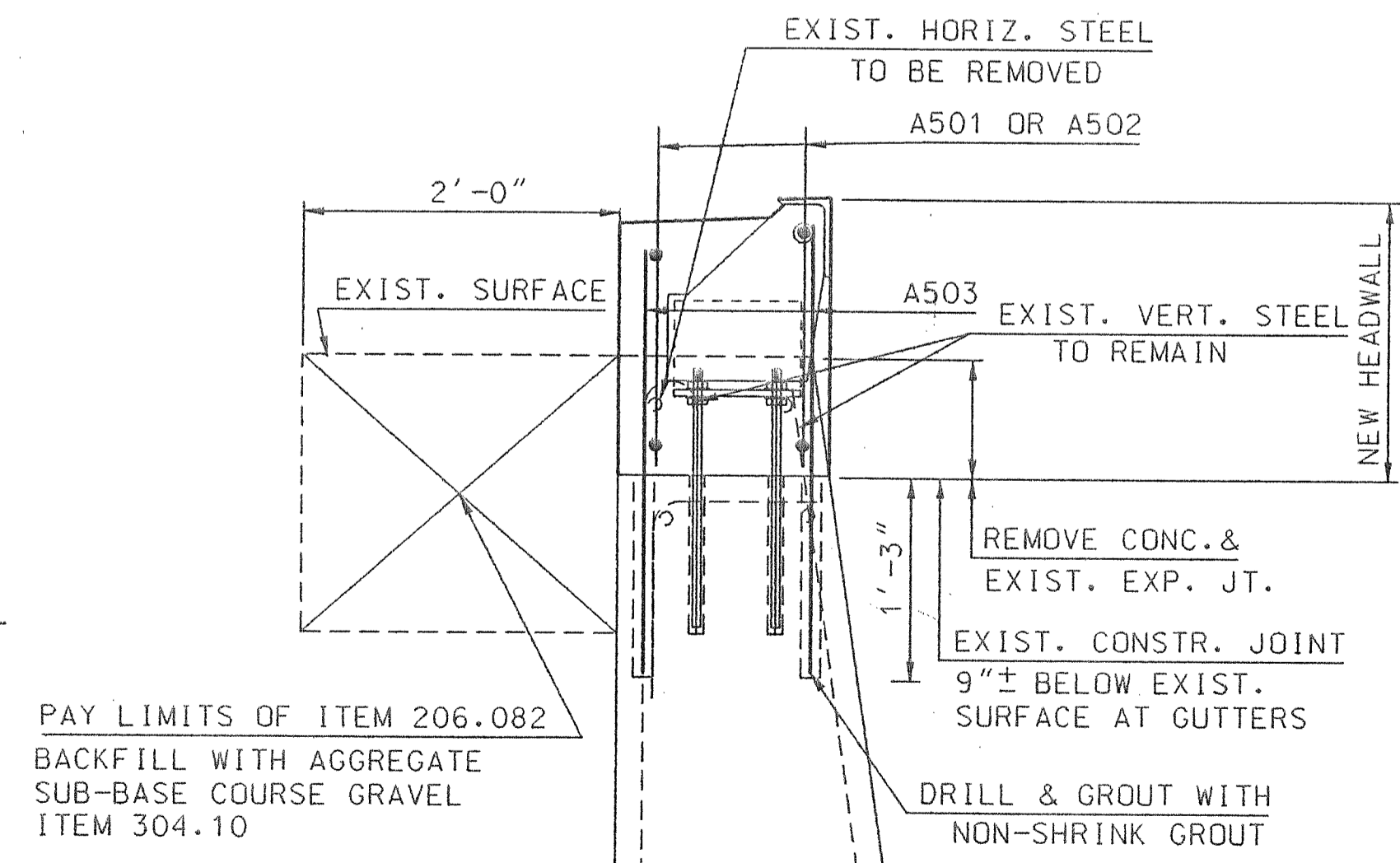


END VIEW



ELEVATION

BACKWALL MODIFICATIONS
AS SHOWN



SECTION

NOTE:

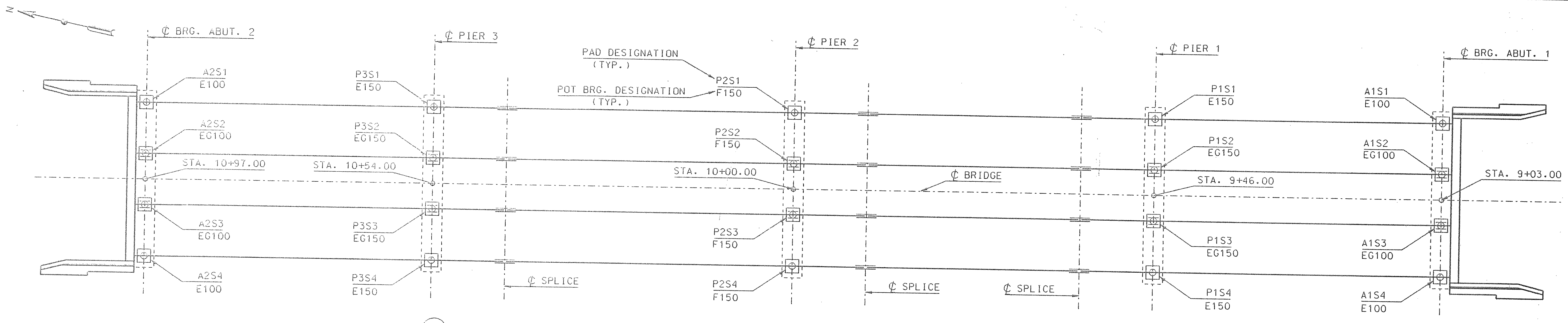
1. FOR REINFORCING SCHEDULE, SEE SHEET S-8 & S-9.
2. FOR GRANITE STONE CURB DETAIL, SEE SHEET S-11.
3. DRILLING AND GROUTING OF REBARS TO BE PAID FOR UNDER STRUCTURAL CONCRETE ABUTMENTS, ITEM 502.21.

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Generated by: E.C.

Maine Turnpike Authority Maine Turnpike	
WEBSTER ROAD OVER MAINE TURNPIKE WINGWALL DETAILS	
HOWARD NEELES TAMMEN & BERGENOFF ARCHITECTS ENGINEERS PLANNERS	
Contract	97.7
Sheet No. S-4	61 of 76

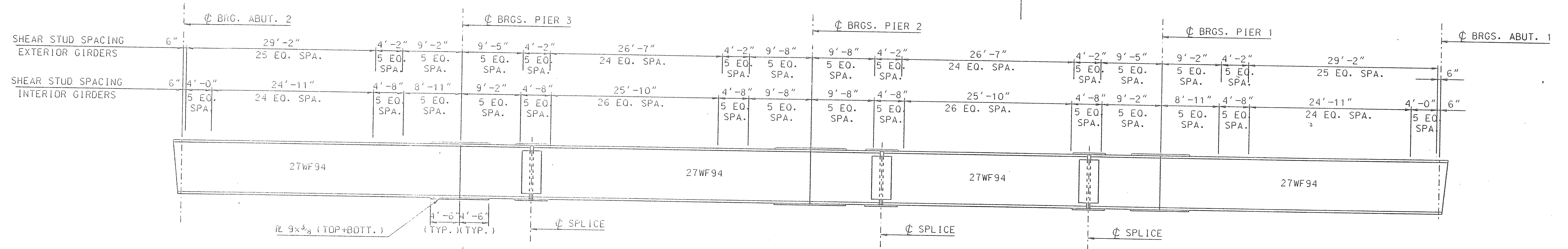
No.	Revision	By	Date	In Charge Of:
	REISSUE	CFM	5/94	

Designed	By	Date
Drawn	E.G.	4/94
Checked		



FRAMING PLAN

1/8" = 1'-0"



TYPICAL BEAM ELEVATION

NO SCALE

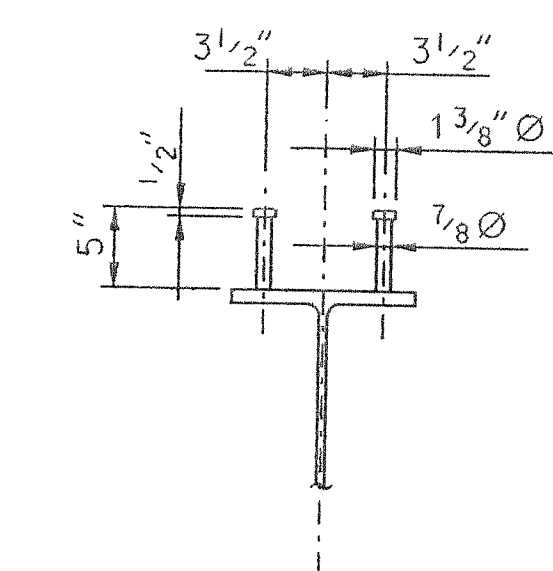
PAD TABLE					
LOCATION	Δ1 (FT.)	MASONRY RL	PAD SIZE	Δ2	Δ3
A1S1	1.0000	17 ³ / ₄ x 17 ³ / ₄ x 1 ³ / ₄	21x24	0.305	1.305
A1S2	1.0000	17 ³ / ₄ x 17 ³ / ₄ x 1 ³ / ₄	21x24	0.188	1.188
A1S3	1.0000	17 ³ / ₄ x 17 ³ / ₄ x 1 ³ / ₄	21x24	0.188	1.188
A1S4	1.0000	17 ³ / ₄ x 17 ³ / ₄ x 1 ³ / ₄	21x24	0.305	1.305
P1S1	1.0000	19x19x1 ³ / ₄	24x24	0.305	1.305
P1S2	1.0000		24x24	0.157	1.157
P1S3	1.0000		24x24	0.157	1.157
P1S4	1.0000		24x24	0.305	1.305
P2S1	1.0000		24x24	0.305	1.305
P2S2	1.0000		24x24	0.262	1.262
P2S3	1.0000		24x24	0.262	1.262
P2S4	1.0000		24x24	0.230	1.262
P3S1	1.0000		24x24	0.305	1.305
P3S2	1.0000		24x24	0.157	1.157
P3S3	1.0000		24x24	0.157	1.157
P3S4	1.0000	19x19x1 ³ / ₄	24x24	0.305	1.305
A2S1	1.0000	17 ³ / ₄ x 17 ³ / ₄ x 1 ³ / ₄	21x21	0.305	1.305
A2S2	1.0000	17 ³ / ₄ x 17 ³ / ₄ x 1 ³ / ₄	21x21	0.188	1.188
A2S3	1.0000	17 ³ / ₄ x 17 ³ / ₄ x 1 ³ / ₄	21x21	0.188	1.188
A2S4	1.0000	17 ³ / ₄ x 17 ³ / ₄ x 1 ³ / ₄	21x21	0.305	1.305

NOTES:

1. SEE POT BRG. DETAILS. SEE SHEET NO. S10
2. ALL PAD REINFORCEMENT IS TO BE EPOXY COATED.
3. IF THE POT BEARINGS APPROVED ARE DIFFERENT THAN THOSE DETAILED IN THE PLANS, THE PAD HEIGHT, SHALL BE ADJUSTED ACCORDINGLY

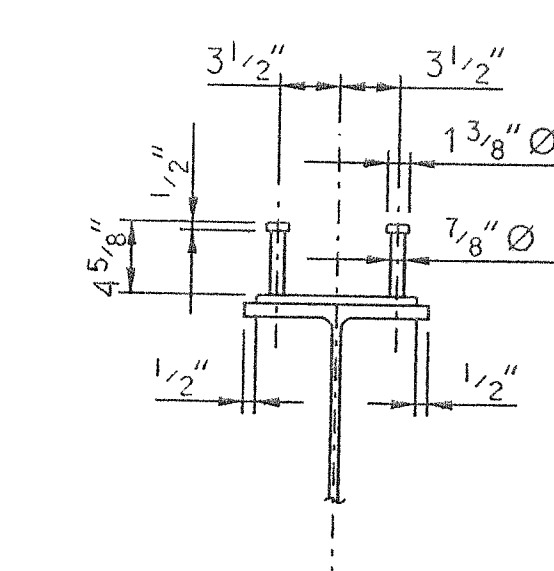
NOTES:

- Δ1 = AMOUNT THE ROADWAY IS TO BE RAISED
 Δ2 = THE DIFFERENCE BETWEEN EXISTING & PROPOSED BEARING
 Δ3 = TOTAL Δ1+Δ2 (INCREASE IN BEARING PAD HEIGHT)



SECTION A-A

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"

Design Filename: c:\11050000\Drawings\FrameL.dwg
 Plotter on: Z2461-1994 11/22
 Generated by: K.H.

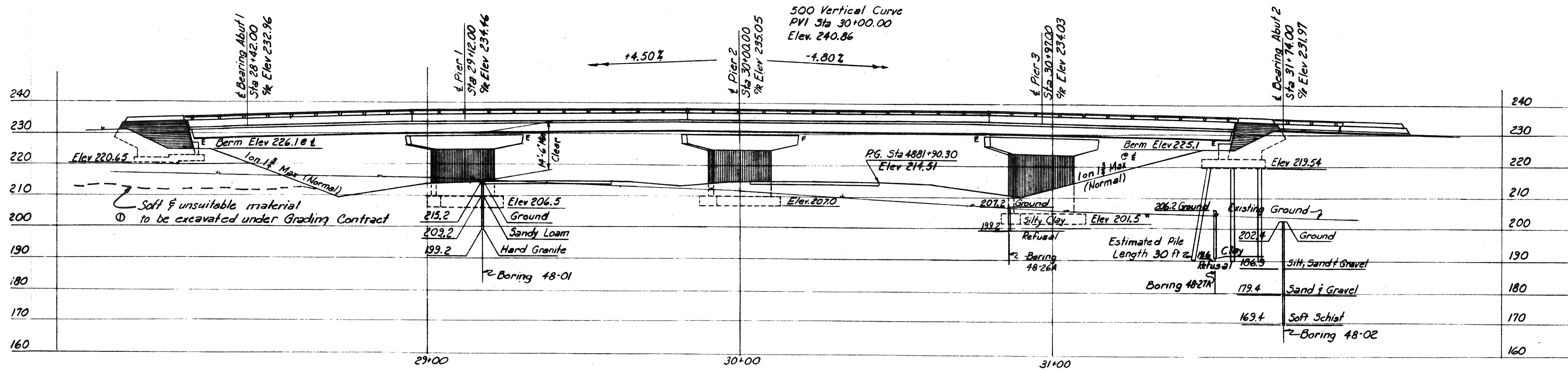
Maine Turnpike Authority
 Maine Turnpike

WEBSTER ROAD OVER MAINE TURNPIKE FRAMING PLAN

HNTB HOWARD NEEDLES TAMMEN & BERGENOFF ARCHITECTS ENGINEERS PLANNERS

By	Date	Designed	JAE	4/94
Drawn	EG	4/94		
Checked	AEM	4/94		
In Charge Of:				

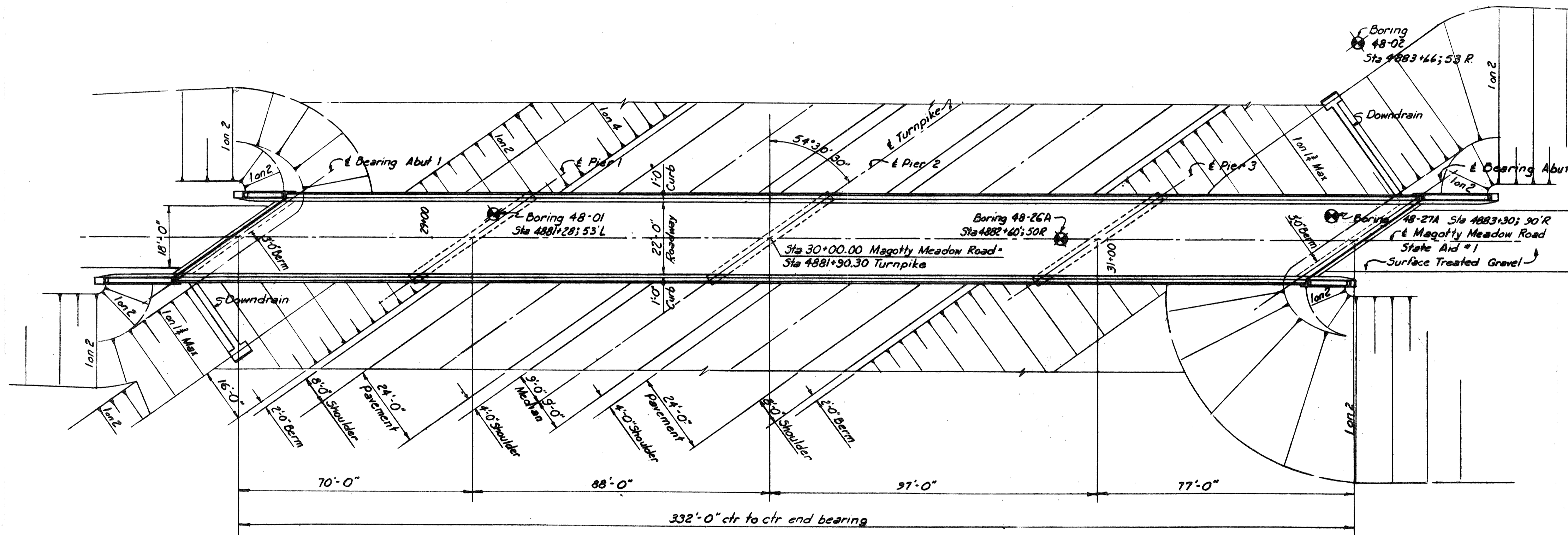
Contract: 94.7 Sheet No. S5
 62 of 76



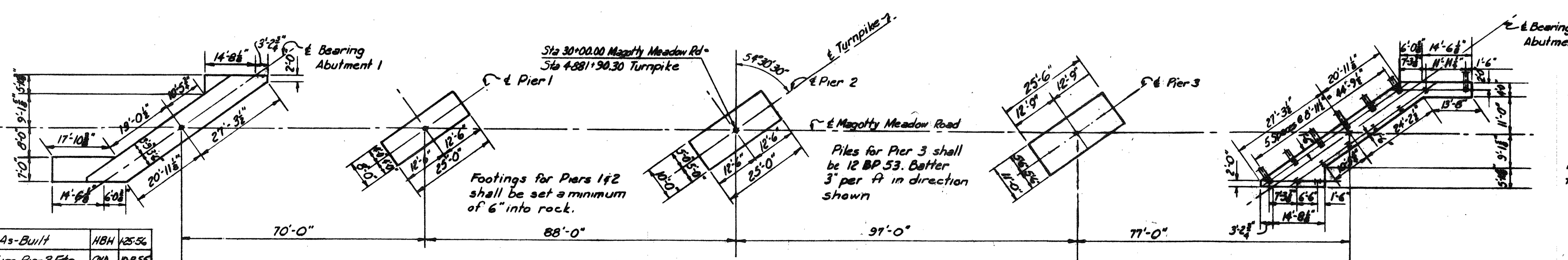
ELEVATION

GENERAL NOTES

Design Specifications: AASHTO (1953) with minor modifications
 Design Live Load: H15
 Maximum Soil Pressures:
 Abutment 1: 1.14 tons/sq ft
 Pier 1: 5.2 tons/sq ft
 Pier 2: 5.5 tons/sq ft
 Maximum Pile Loads:
 Pier 3: 579 tons/pile
 Abutment 2: 317 tons/pile



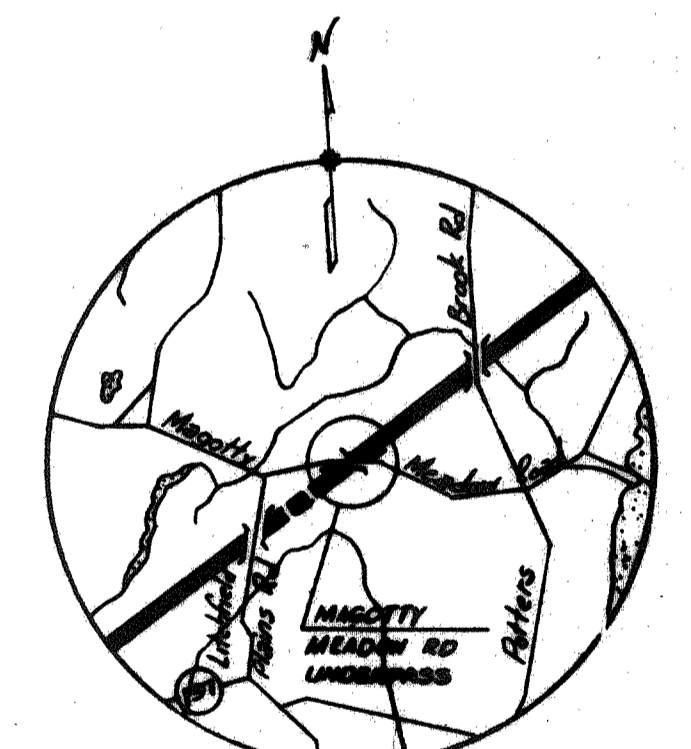
PLAN



FOOTING PLAN

REFERENCES

Dwg No	Title	Superstructure			
		Sub-structure Contractor	Steel Fabricator	Steel Erector	Floor Contractor
SD-1A	Standard Abutment Details	✓	✓	✓	✓
SD-2	Standard Pier Details	✓	✓	✓	✓
SD-3	Abutment Drainage Details	✓	✓	✓	✓
SD-4	Standard Pile Details	✓	✓	✓	✓
SD-5	Standard Handrail, Bearing Devices and Miscellaneous Details	✓	✓	✓	✓
SD-6	Standard Diaphragm Details	✓	✓	✓	✓
SD-10	Standard Type A Splice for 36 W Beams	✓	✓	✓	✓
SD-12A	Type Z Expansion Joint	✓	✓	✓	✓
SD-M	Standard Bridge Floor Cross-section 20'-0" and 22'-0" Roadway	✓	✓	✓	✓



VICINITY MAP
Scale: 1" = 1 Mile

DRAWING 74.01.05

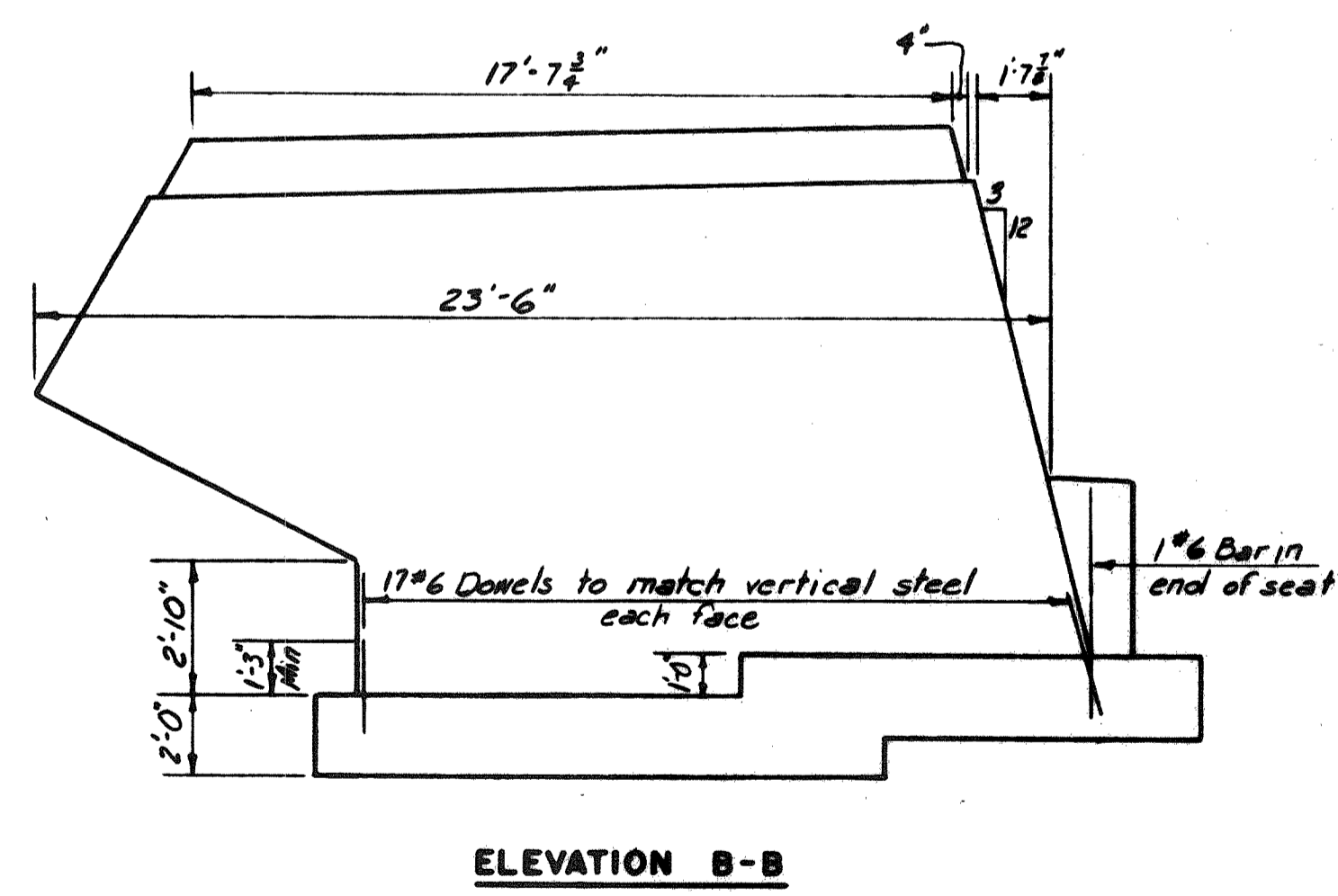
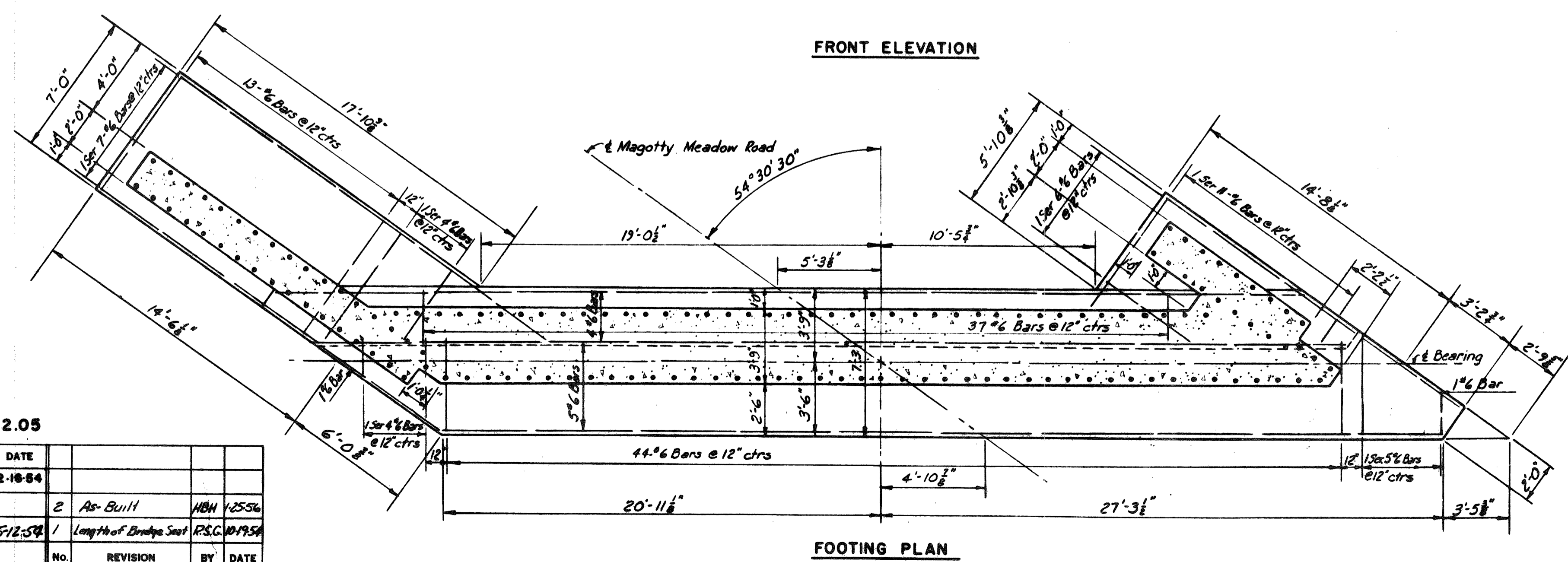
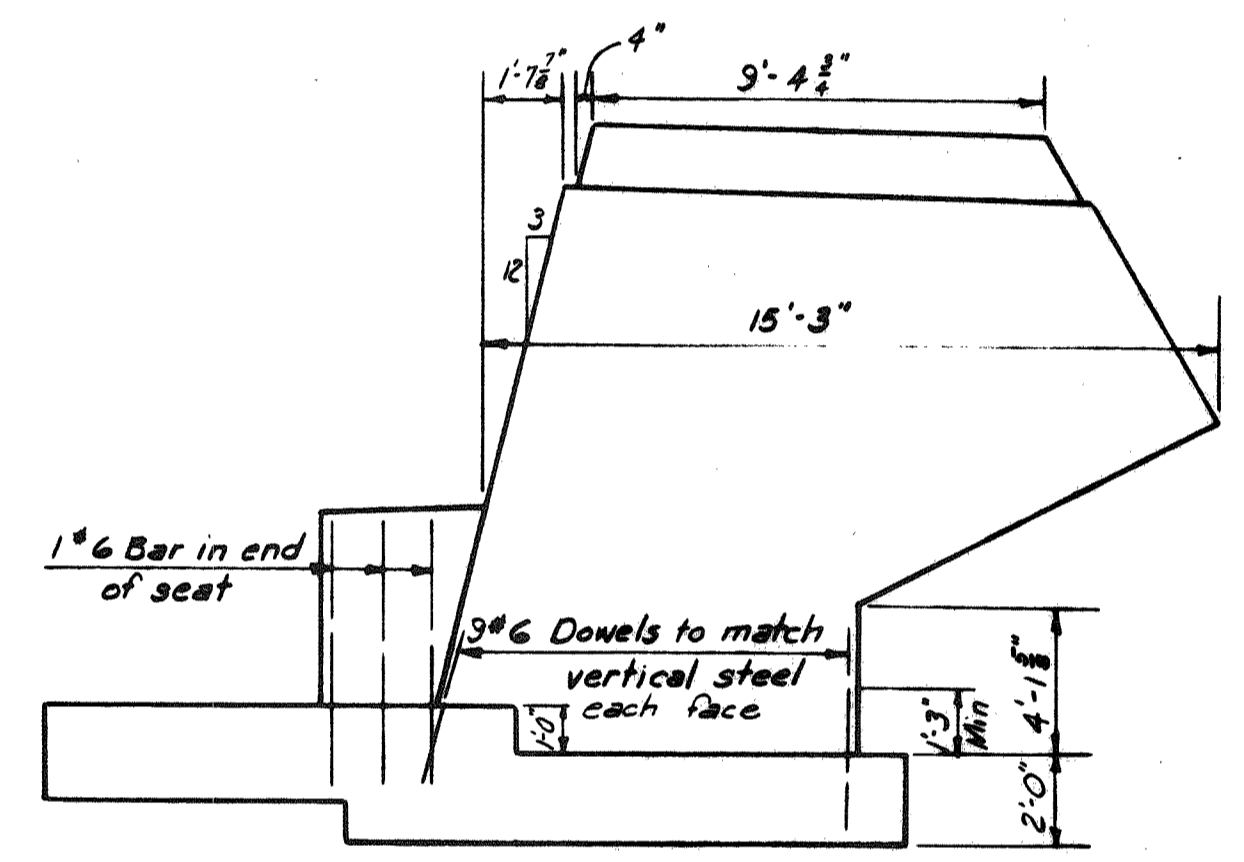
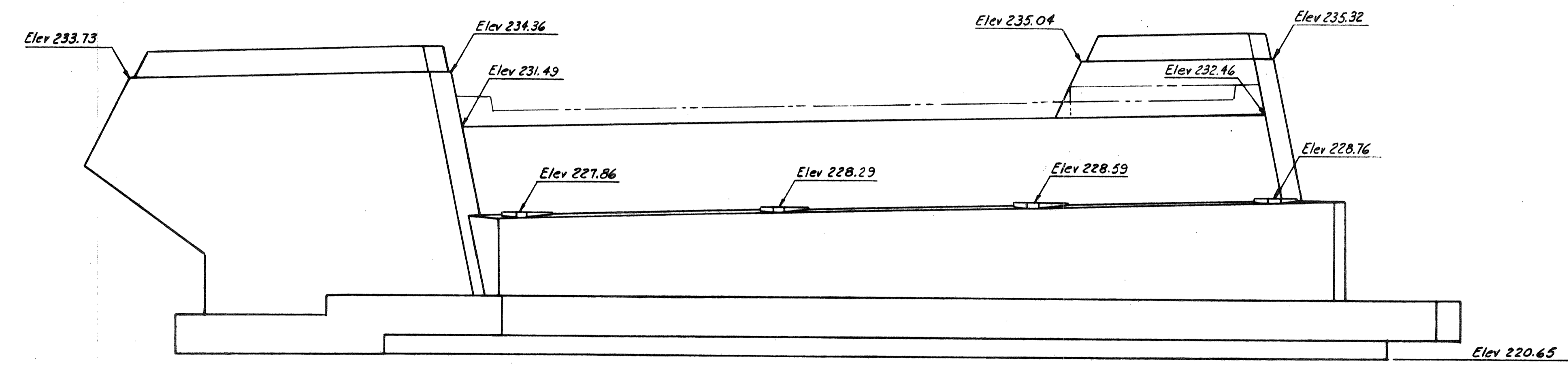
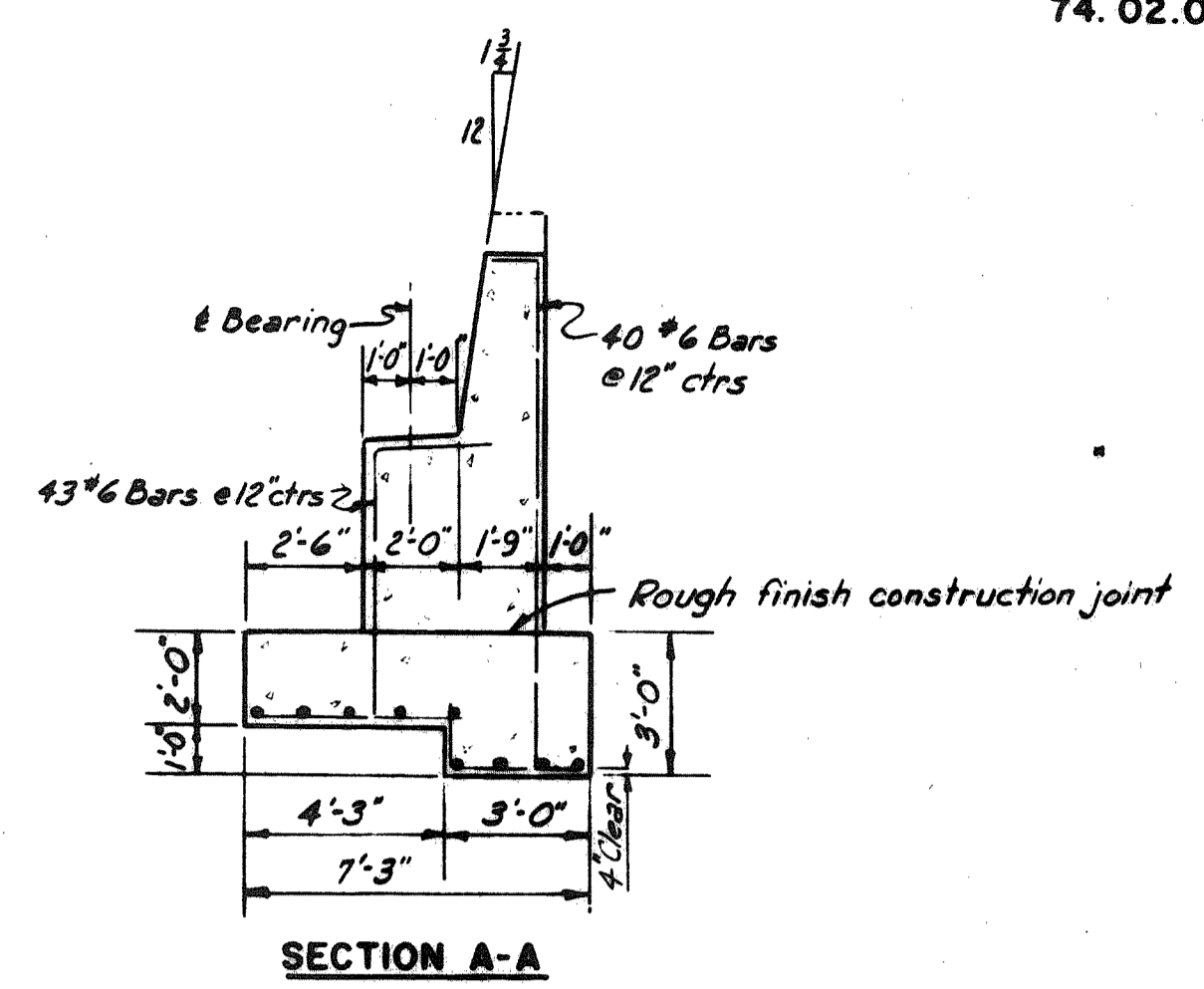
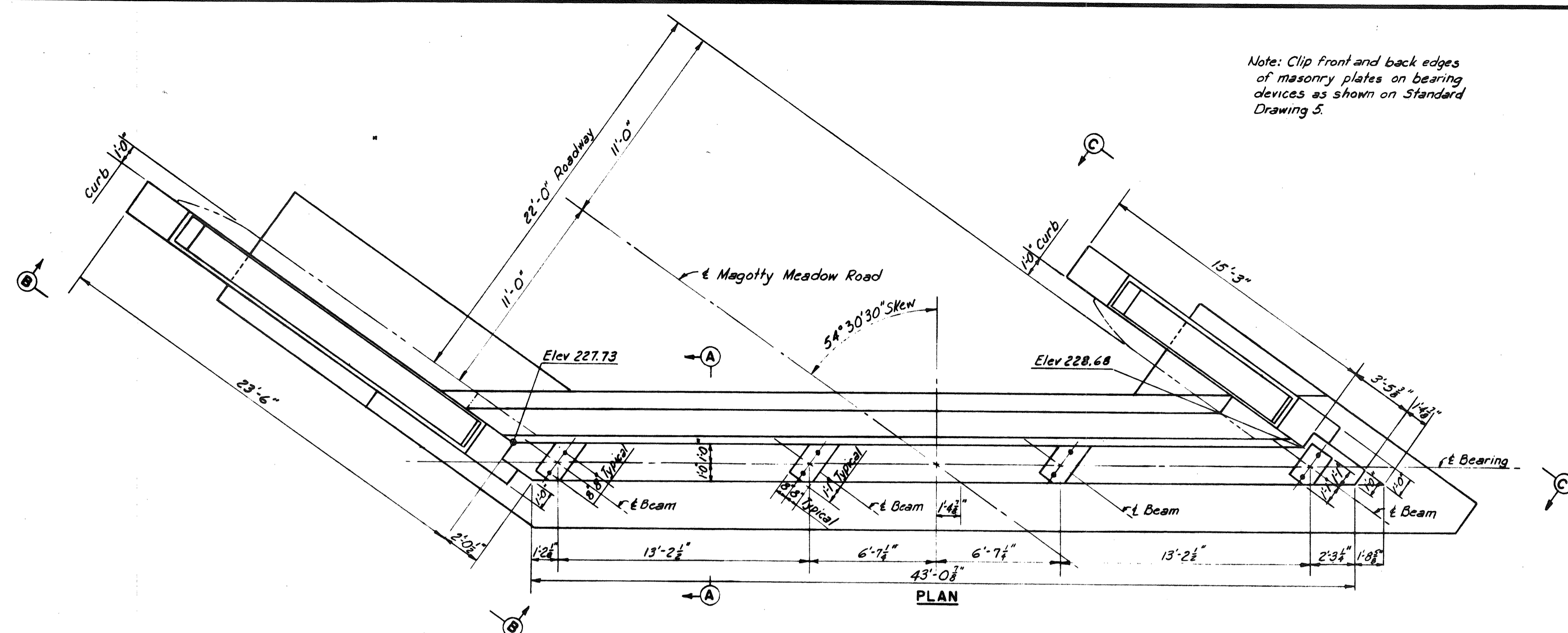
NO.	REVISION	BY	DATE
5	As-Built	HBN	1/25/56
4	Size Pier 3 Pile	CYA	1/25/55
3	Pier 2 Pile Elev.	CYA	7/13/53
2	Revised Pier 3	CGP	5/7/53
1	Noted Added	JLS	5/15/53

IN CHARGE OF I.D.S.K.

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
 SECTION 2— PORTLAND TO AUGUSTA
 STRUCTURE NO. 74 TURNPIKE UNDER
MAGOTTY MEADOW ROAD
 STA 4881+90.30
GENERAL PLAN AND ELEVATION
 HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 NEW YORK KANSAS CITY
 SCALE: 1" = 20'-0"
 CONTRACT NO. _____
 SHEET NO. 327 OF 322

Piles for Abutment 2 shall be 10 BP 42, Batter 3' per ft in direction shown

Note: Clip front and back edges of masonry plates on bearing devices as shown on Standard Drawing 5.

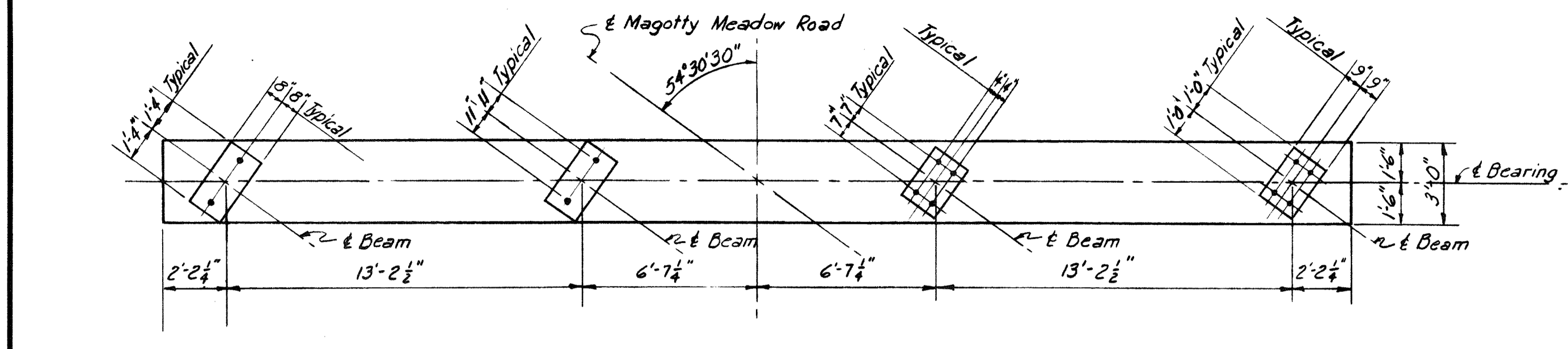


DRAWING 74.02.05

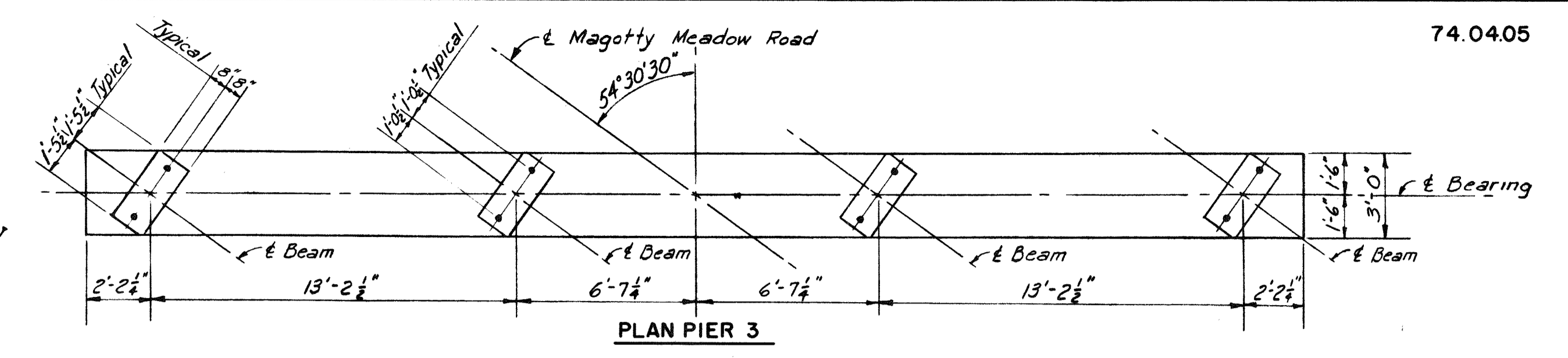
MADE	BY	DATE		
WCM	WCM	2-16-54		
TRACED			2 As-Built	MBH 1/25/56
CHECKED	AER	5/2/58	Length of Bridge Seat	R.S.G. 10/19/58
IN CHARGE OF	I.D.S.K.			
	No.	REVISION	BY	DATE

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
 SECTION 2— PORTLAND TO AUGUSTA
 STRUCTURE NO. 74 TURNPIKE UNDER
MAGOTTY MEADOW ROAD
 STA 4881 + 90.30
ABUTMENT I
 HOWARD, NEEDLES, TAMMEN & BERGENDORFF CONSULTING ENGINEERS
 NEW YORK KANSAS CITY
 SCALE: 1" = 1'-0"
 CONTRACT NO. _____
 SHEET NO. 322 of 362

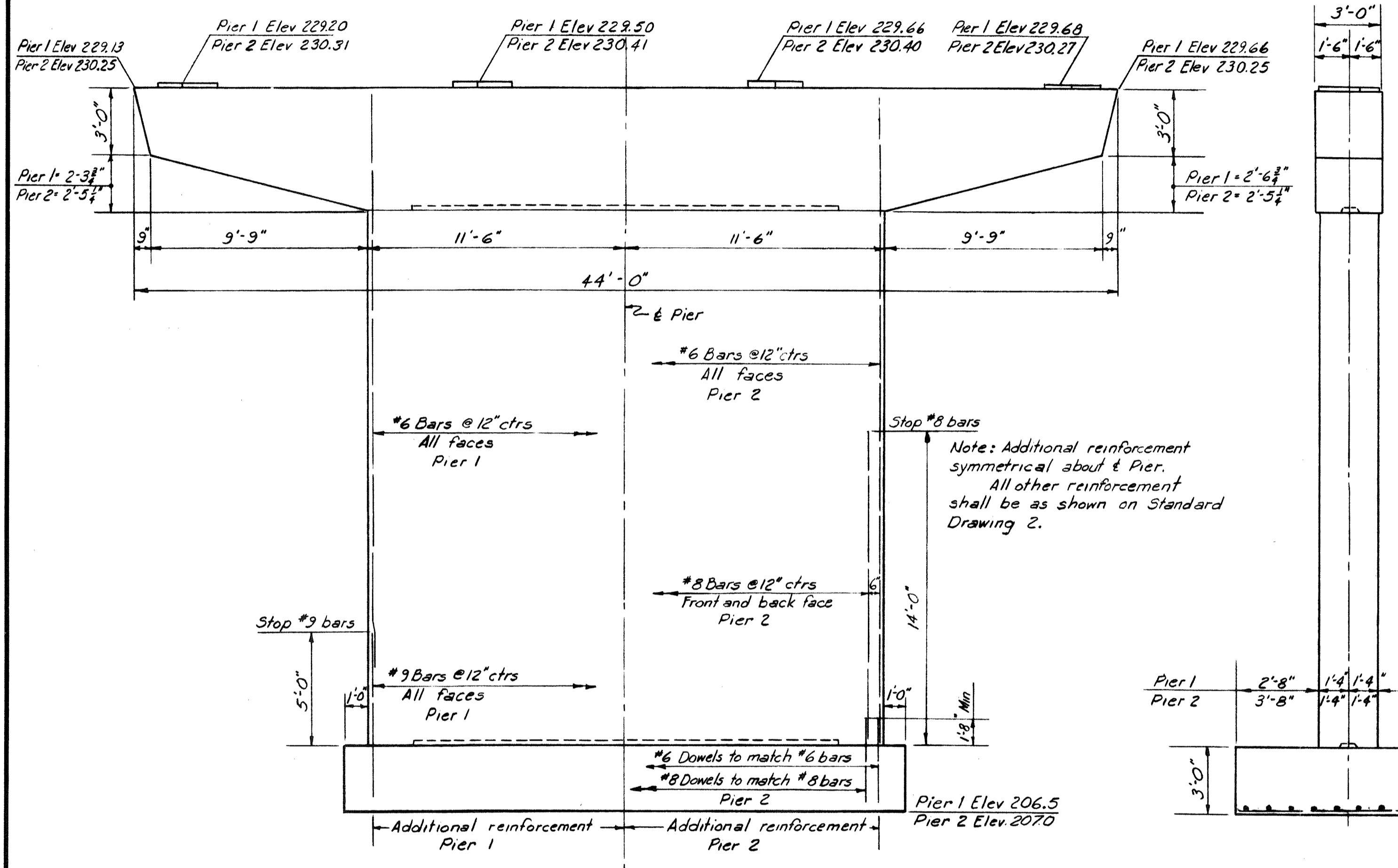
Note: Clip front and back edges of masonry plates on expansion bearing devices as shown on Standard Drawing 5



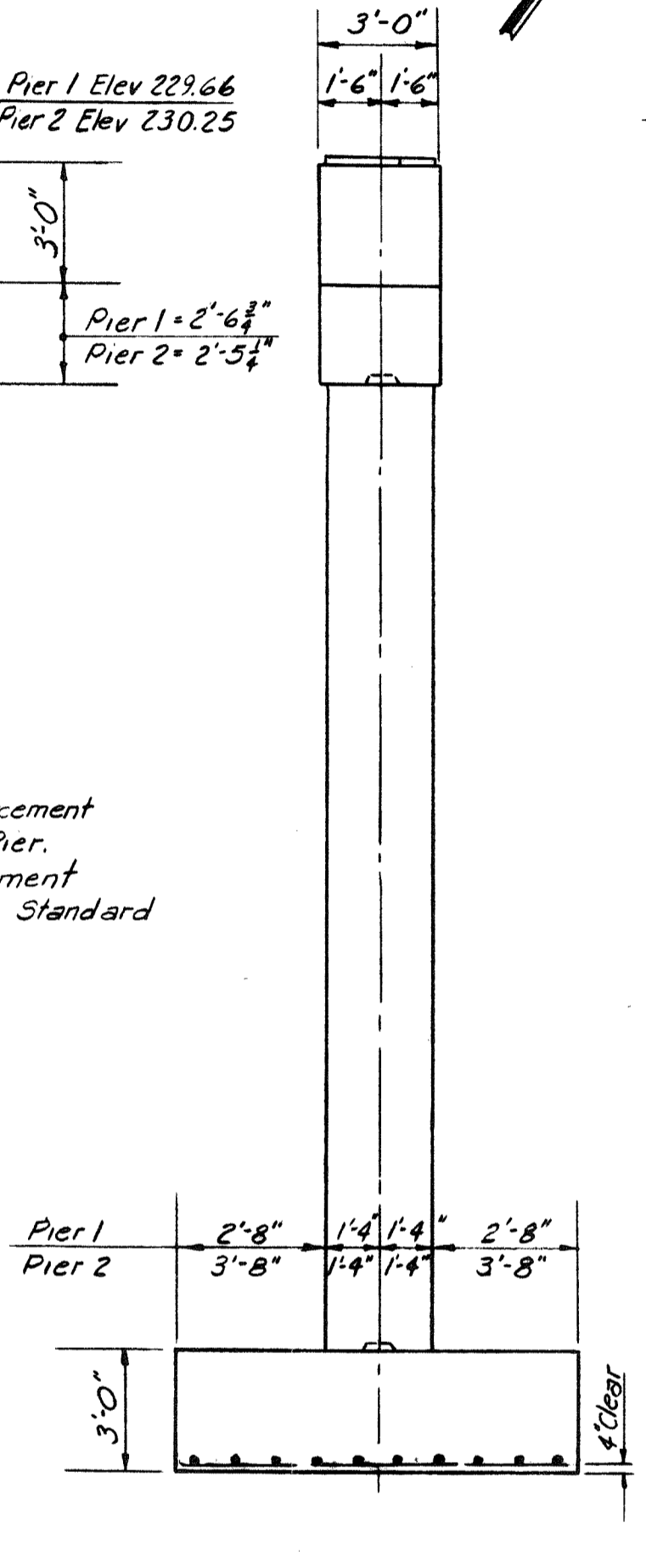
HALF CAP PLAN PIER 1 HALF CAP PLAN PIER 2



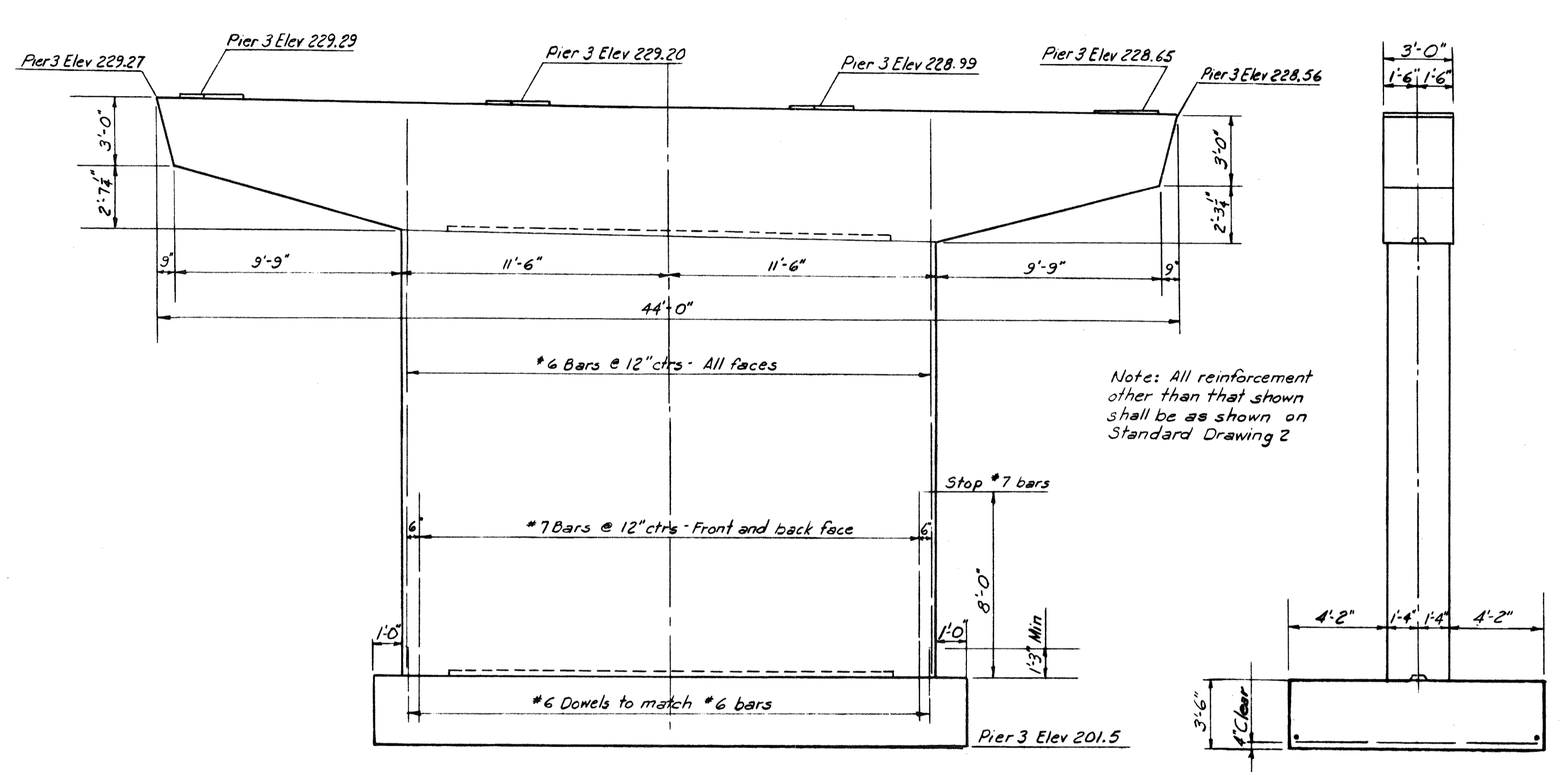
PLAN PIER 3



ELEVATION PIERS 1 AND 2

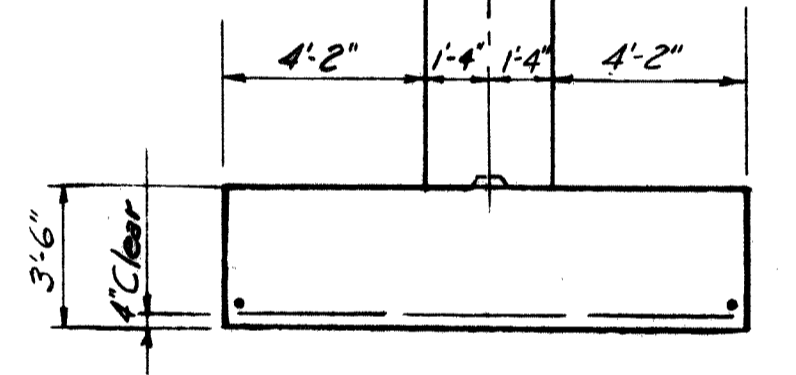


END ELEVATION PIERS 1 AND 2

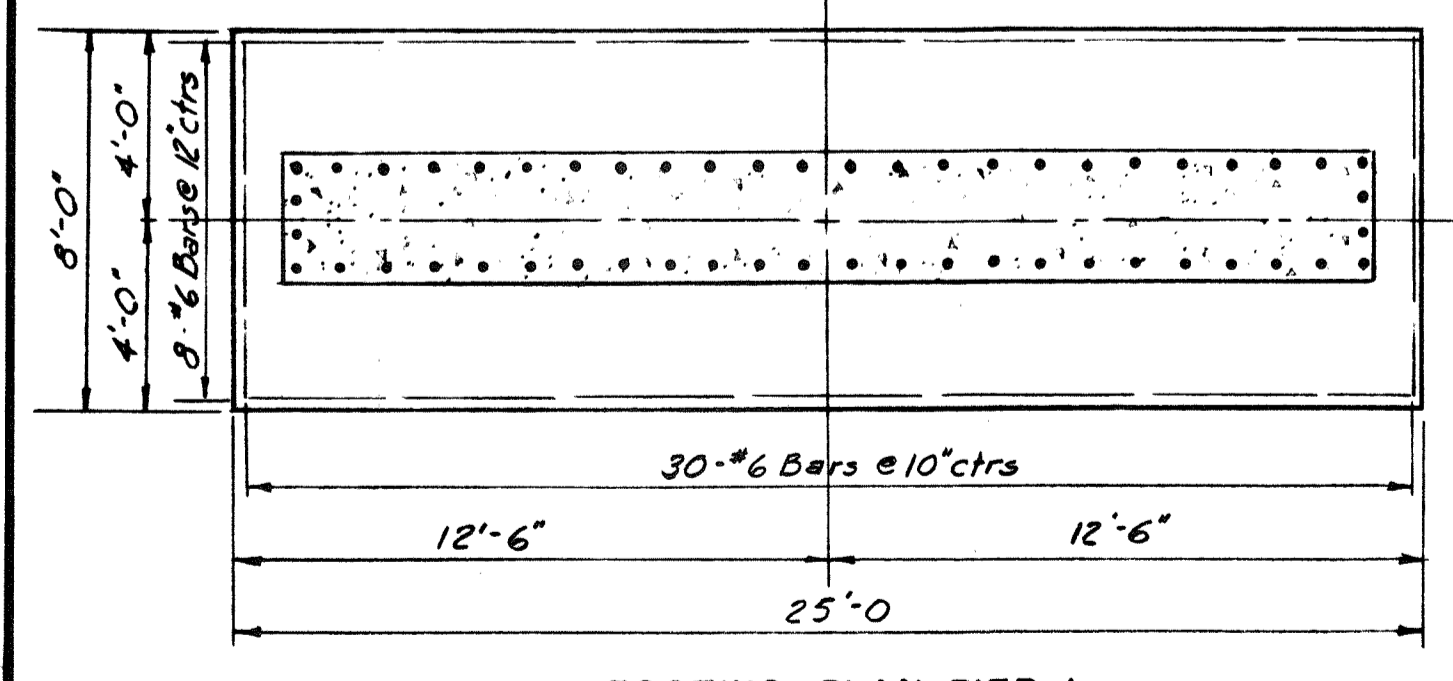


ELEVATION PIER 3

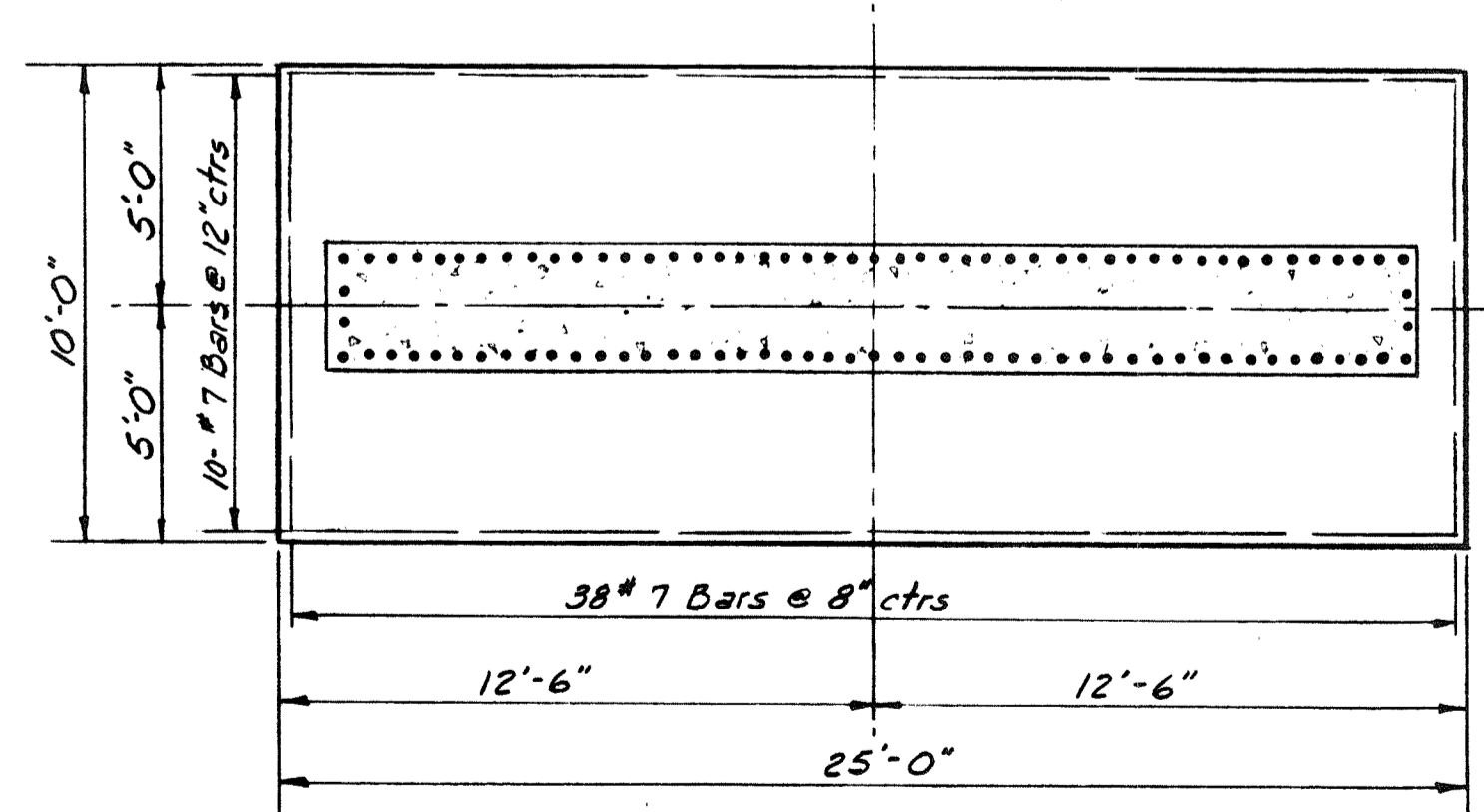
Note: All reinforcement other than that shown shall be as shown on Standard Drawing 2



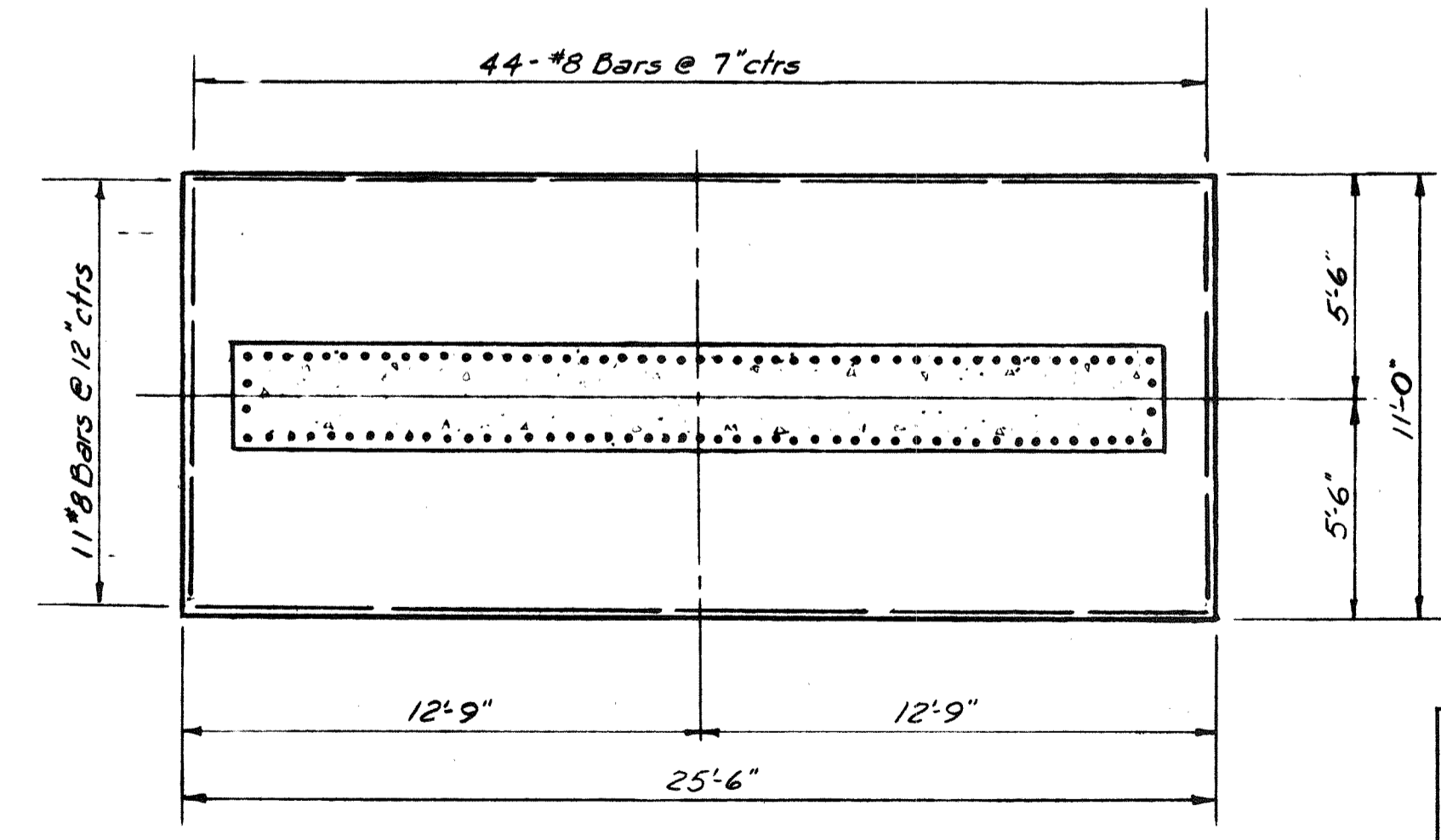
END ELEVATION PIER 3



FOOTING PLAN PIER 1



FOOTING PLAN PIER 2

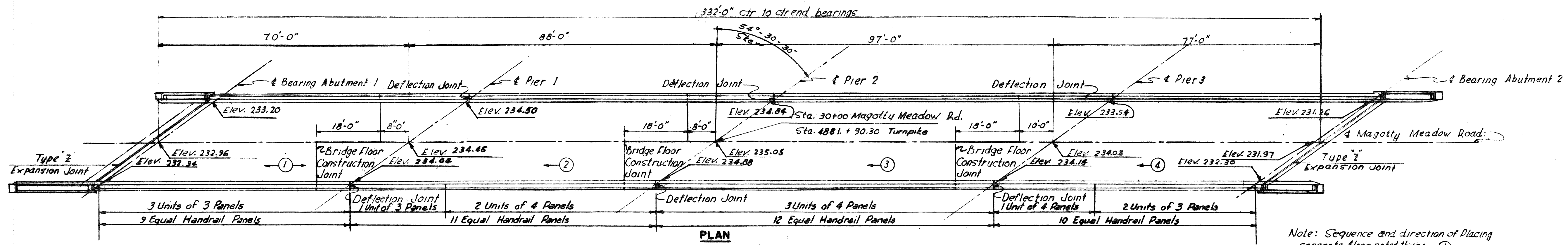


FOOTING PLAN PIER 3

DRAWING 74.0405

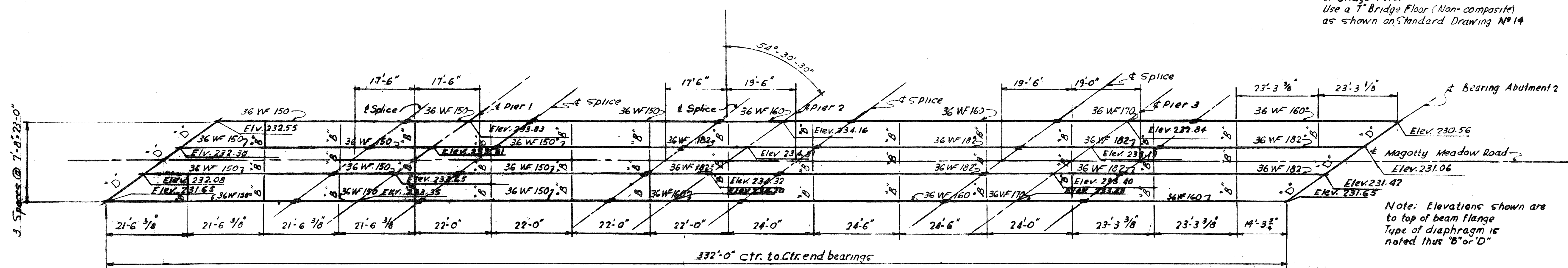
BY	DATE	NO.	REVISION	BY	DATE
As-Built		4			
Size Per-3 Fig.		3			
Per-2 Fig. Elev.		2			
Revised Per-3		1			

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
 SECTION 2— PORTLAND TO AUGUSTA
 STRUCTURE NO 74 TURNPIKE UNDER
 MAGOTTY MEADOW ROAD
 STA 4881 + 90.30
PIER DETAILS
 HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS
 NEW YORK KANSAS CITY
 SCALE: 1/4" = 1'-0"
 CONTRACT NO. _____
 SHEET NO. 330 OF 382

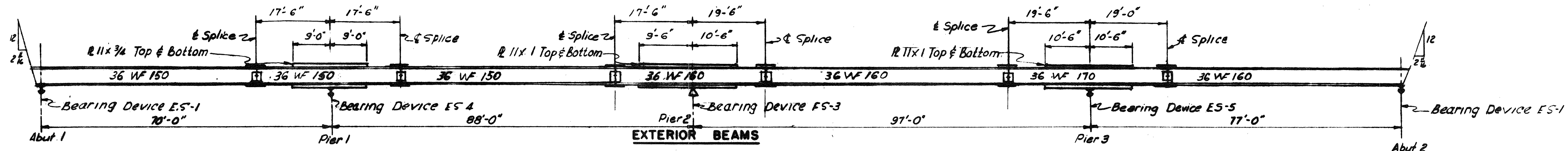


PLAN
Scale: 1/4" = 1'-0"

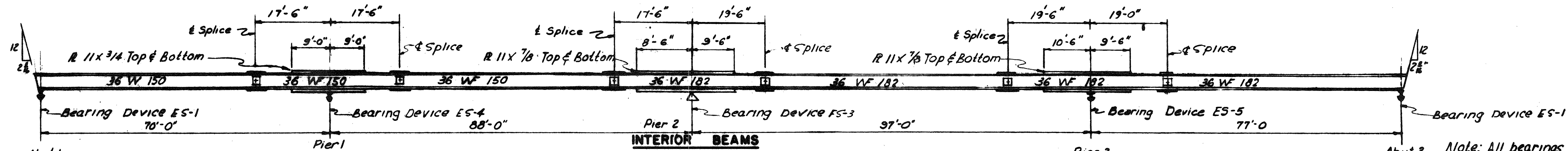
Note: Sequence and direction of placing concrete floor noted thus: (1)
Elevations shown are to top of Bridge Floor
Use a 7" Bridge Floor (Non-composite) as shown on Standard Drawing N#14



FRAMING PLAN
Scale: 1/4" = 1'-0"

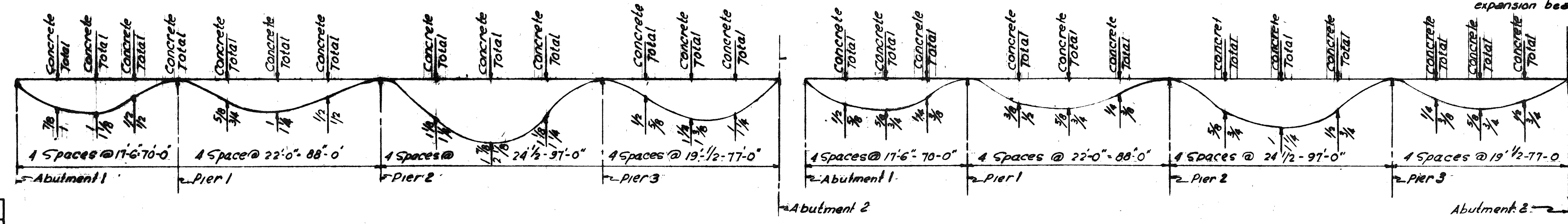


EXTERIOR BEAMS
No Scale



INTERIOR BEAMS
No Scale

Note: All bearings stiffeners at points of support are 1x4x5/8" angles.
Bevel of beam ends is true with respect to the beams axis.
Clip front and back corners of masonry plates on expansion bearing devices as shown on Standard Drawing N#5



EXTERIOR BEAM

DEAD LOAD DEFLECTIONS
No Scale

INTERIOR BEAM

DRAWING 74.05.05

MADE	BY	DATE			
	R.L.G.	2-23-84			
TRACED					
CHECKED	A.E.R.	5-15-84	As-Built		MM/12506
IN CHARGE OF	IOSK		No.	REVISION	BY DATE

MAINE TURNPIKE AUTHORITY MAINE TURNPIKE SECTION 2— PORTLAND TO AUGUSTA	
STRUCTURE NO. 74 MAGOTTY MEADOW ROAD STA. 4881 + 90.30 SUPERSTRUCTURE	TURNPIKE UNDER STA. 4881 + 90.30 SCALE: AS NOTED CONTRACT NO. _____ SHEET NO. 32L OF 382
HOWARD, NEEDLES, TAMMEN & BERENSON CONSULTING ENGINEERS NEW YORK HANNOV CITY	

SPECIFICATIONS

DESIGN

"AAHSTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1989" WITH ALL THE INTERIMS.

CONTRACT

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAY AND BRIDGES, REVISION OF OCTOBER 1990

LIVE LOAD

H20 LOAD FACTOR

MATERIALS

CONCRETE

ALL CONCRETE SHALL BE CLASS AAA
 $n = 8$ $f_c = 1,800$ P.S.I. $f'_c = 4,500$ P.S.I.

REINFORCING STEEL

ASTM A615 GRADE 60 $f'_b = 24,000$ P.S.I.

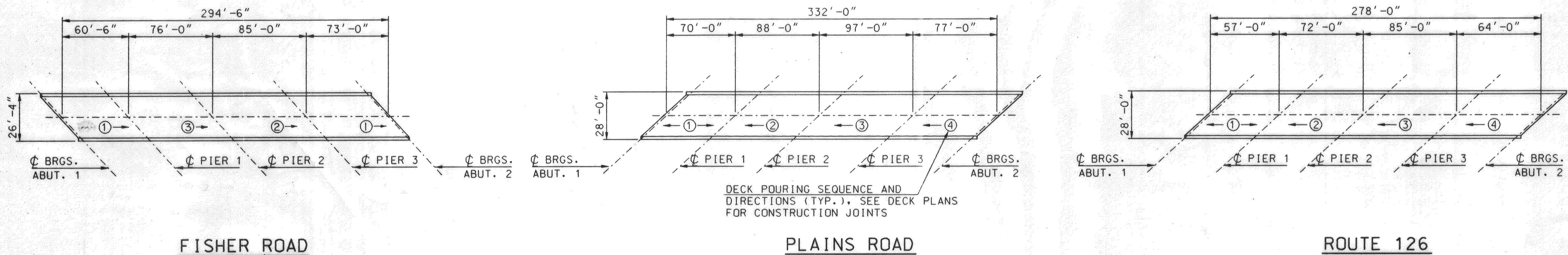
STRUCTURAL STEEL

ASTM A709 GRADE 36 $f'_b = 20,000$ P.S.I.

GENERAL NOTES

- REINFORCING STEEL TO HAVE A CLEAR COVER AS SHOWN ON THE PLANS.
- CHAMFER ALL EXPOSED EDGES 1" UNLESS OTHERWISE NOTED.
- PLANS OF EXISTING BRIDGES ARE AVAILABLE AT THE AUTHORITY'S OFFICE AT 430 RIVERSIDE ST. PORTLAND, MAINE
- SHIELDING REQUIRED DURING CONCRETE REMOVAL SHALL NOT PROJECT BELOW THE BOTTOM FLANGES OF STRINGERS. THE ESTIMATED QUANTITY OF SHIELDING IS THE MINIMUM REQUIRED AND IS BASED ON THE FOLLOWING LIMITS:
 - NORMAL TO ϕ BRIDGE: AS SHOWN ON THE PLANS
 - PARALLEL TO ϕ BRIDGE: ABUTMENT TO ABUTMENT
- THE CONTRACTOR HAS THE OPTION OF SUBSTITUTING CLASS A CONCRETE FOR ITEM 502.21
- FOR STEEL REINFORCING SCHEDULE, SEE SHEETS 3-11, 3-12, 3-19, 3-20, 3-27 & 3-28
- ALL STEEL REINFORCING SHALL BE EPOXY COATED.
- DO NOT COVER DECK DRAINS WITH MEMBRANE. DEPRESS DRAINS $\frac{1}{2}$ " BELOW TOP OF SLAB. PROVIDE 23 GAUGE GALVANIZED SCREENS (1/8" MESH) OVER DRAINS. PAYMENT INCIDENTAL TO CONTRACT ITEM 502.262.
- THE AUTHORITY'S PERSONEL WILL PROFILE THE TOPS OF ALL STRINGERS BEFORE THE FORM WORK IS STARTED AND SUPPLY THE CONTRACTOR WITH FINAL BOTTOM OF SLAB ELEVATIONS.
- THE CONCRETE DECK SURFACE SHALL BE GIVEN A SMOOTH BULL OR WOOD FINISH.

ITEM	DESCRIPTION	UNIT	QUANTITIES		
			FISHER RD.	PLAINS RD.	RTE. 126
202.12	Removing Existing Structural Concrete	C.Y.	17	19	31
202.122	Removing Existing Superstructure Concrete	S.Y.	818	996	1019
202.20	Protective Shield	S.Y.	1014	1217	1209
403.13	Dense Graded Bit. Pav't For Bridges	Ton.	61	74	83
502.21	Structural Concrete, Abutments, Retaining Walls	C.Y.	21	25	29
502.23	Structural Concrete, Piers	C.Y.	3	4	3
502.262	Structural Concrete Roadway and Parapet on Steel Bridge (Fisher Rd.= 257 CY.), (Plains Rd.= 302 CY.) and (Rte. 126= 293 CY.)	L.S.	1	1	1
503.14	Epoxy Coated Reinf. Steel- Fabricated & Delivered	Lb.	70,600	83,300	80,100
503.15	Epoxy Coated Reinf. Steel- Placing	Lb.	70,600	83,300	80,100
504.70	Structural Steel- Fabricated & Delivered	L.S.	1	1	1
504.72	Jacking Exist. Superstructure	L.S.	1	1	---
505.08	Stud Welded Shear Connectors (Fisher Rd.= 2028 PC'S) (Plains Rd.= 2028 PC'S)	L.S.	1	1	---
507.092	Aluminum Bridge Railing, 2 Bar	L.F.	594	669	561
508.13	Membrane Waterproofing (Fisher Rd.= 753 SY.), (Plains Rd.= 910 SY.) and (Rte. 126= 947 SY.)	L.S.	1	1	1
514.06	Curing Box for Concrete Cylinders	Ea.	1	1	1
515.20	Protective Coating for Concrete Surfaces	S.Y.	509	574	481
515.201	Concrete Protective Coating	S.Y.	307	333	371
523.103	Pot Bearings	EA.	20	20	---
520.22	Expansion Device-Compression Seal (Fisher Rd.= 70 FT.), (Plains Rd.= 85 FT.) and (Rte. 126= 88 FT.)	EA.	1	1	1
609.15	Sloped Curb Type 1	L.F.	16	16	16



DECK PLACEMENT DETAILS
N.T.S.

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 Plotted on: 12-APR-94 16:37
 Generated by: F.G

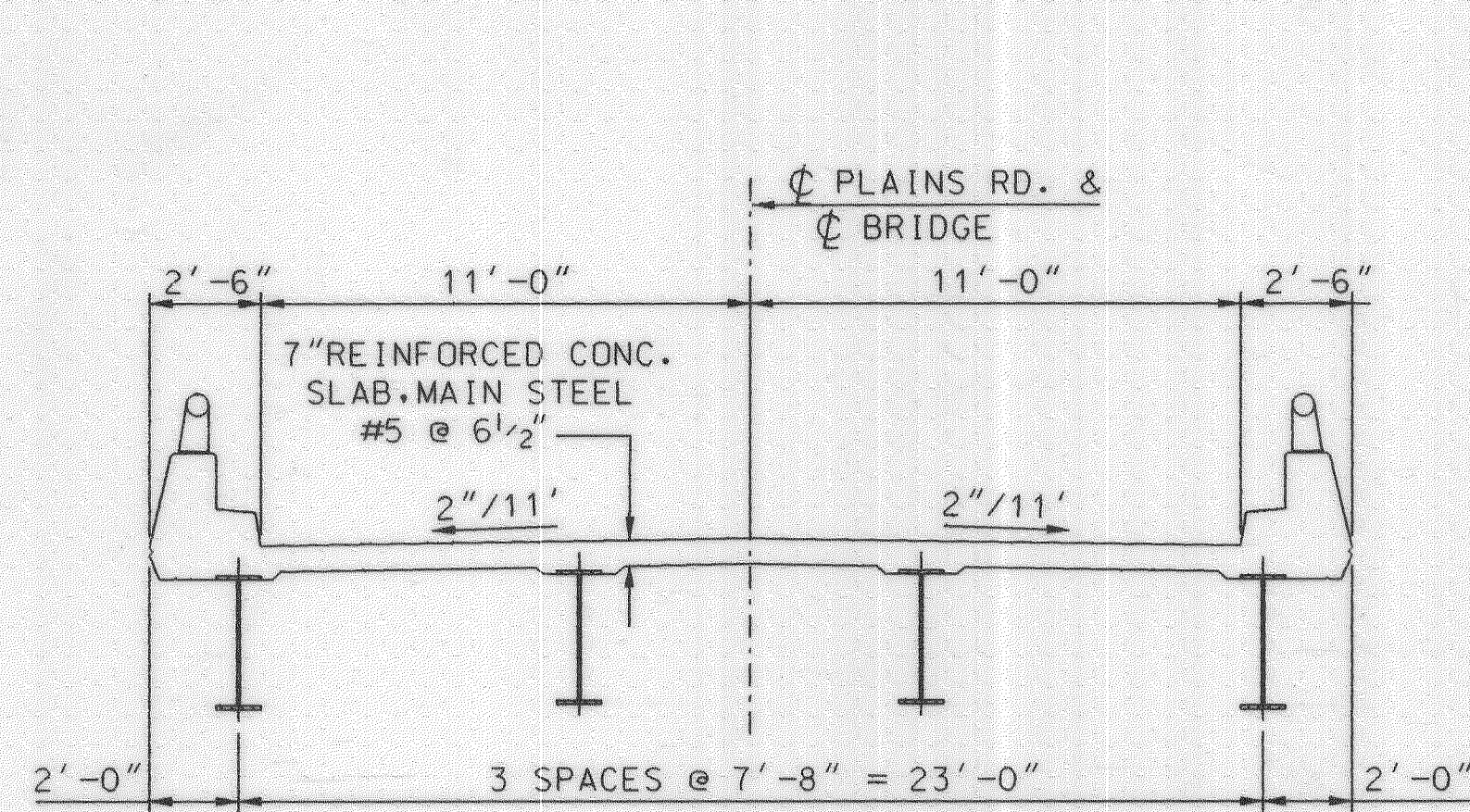
No.	Revision	By	Date	In Charge Of:

Maine Turnpike Authority
 Maine Turnpike

HNTB HOWARD NEEDLES TAMMEN & BERGENOFF
 ARCHITECTS ENGINEERS PLANNERS

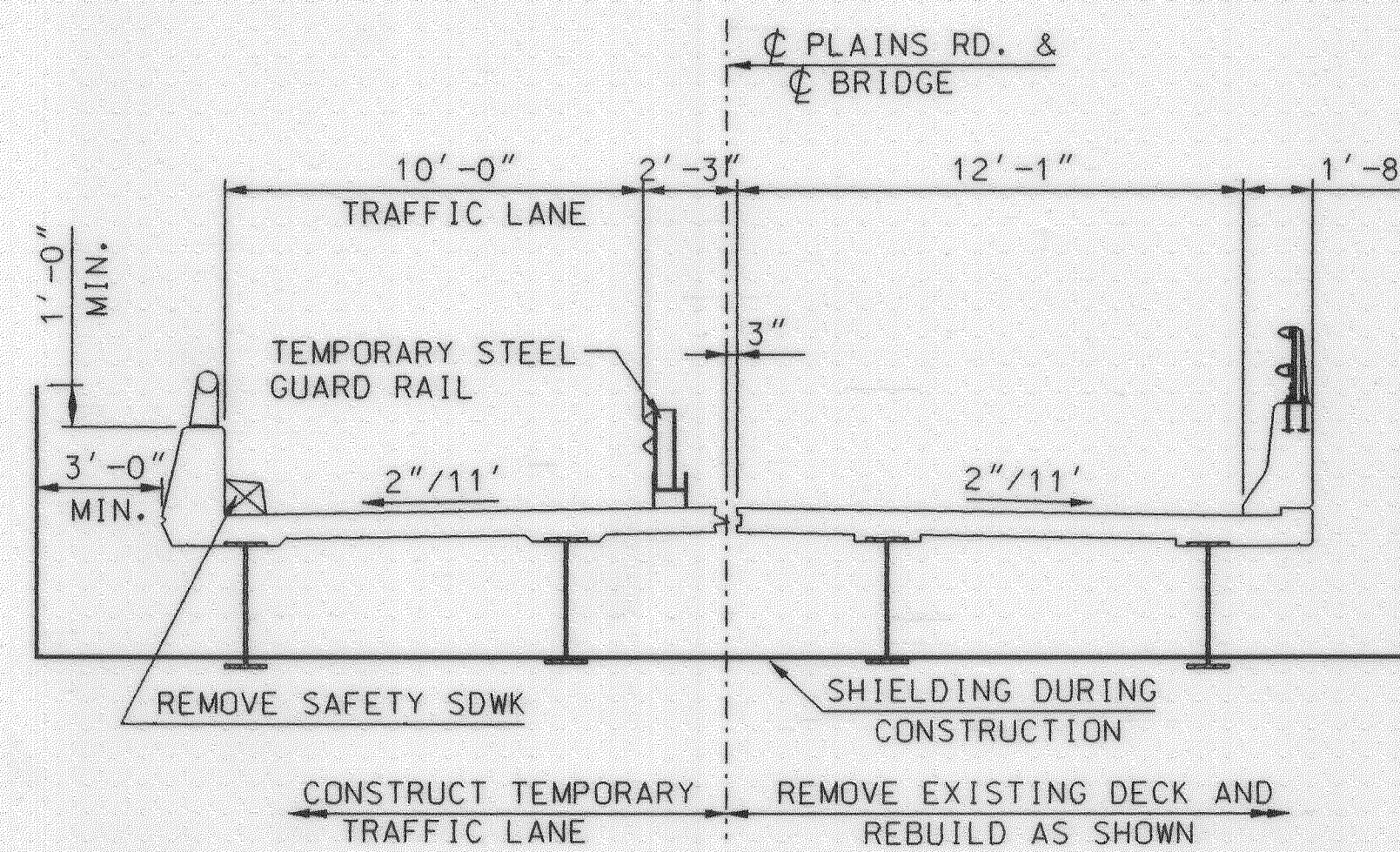
Contract 94.3

Sheet No. S-1
 31 of 60



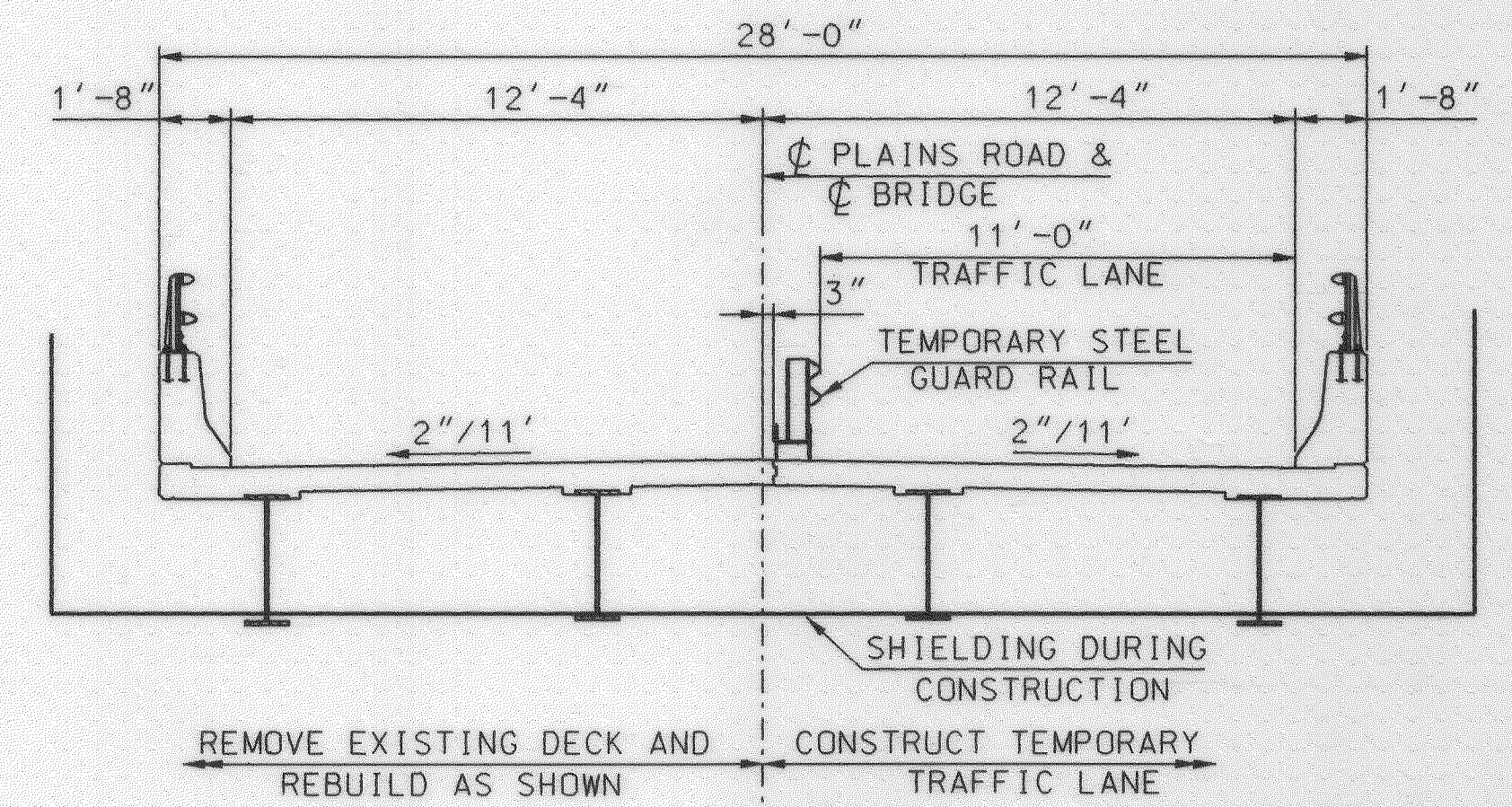
EXISTING DECK

1/4" = 1'-0"



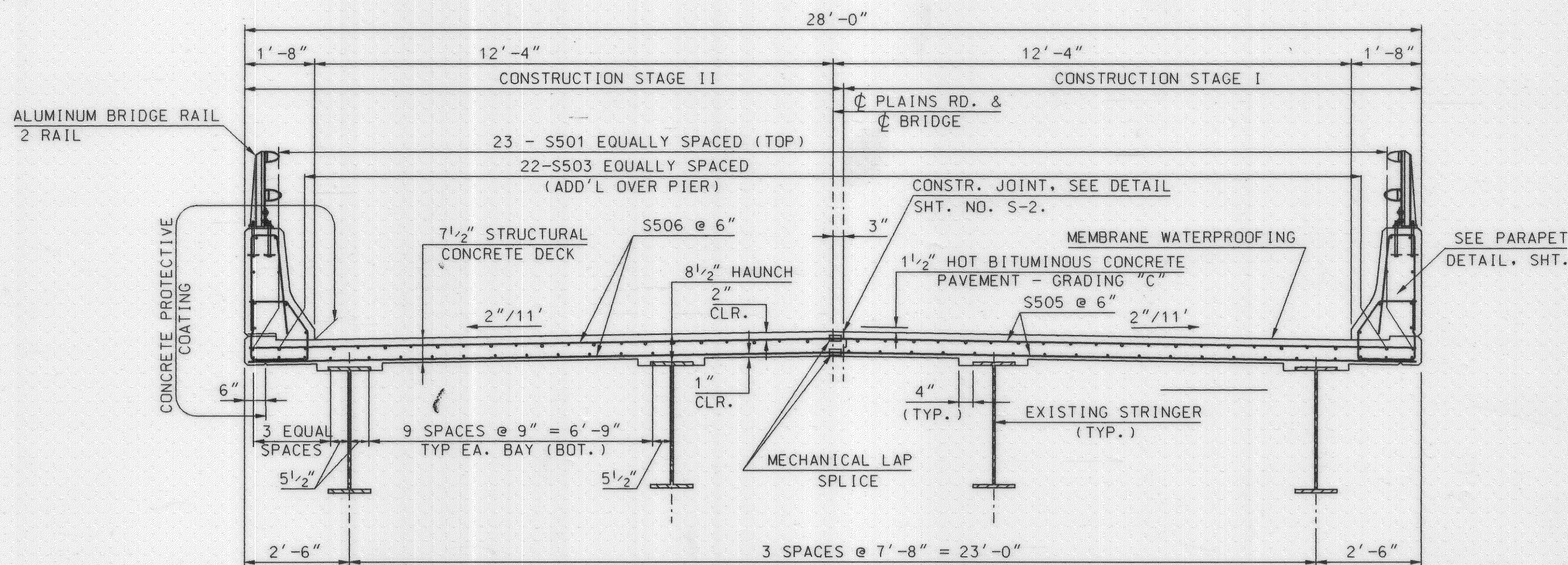
CONSTRUCTION - STAGE I

1/4" = 1'-0"



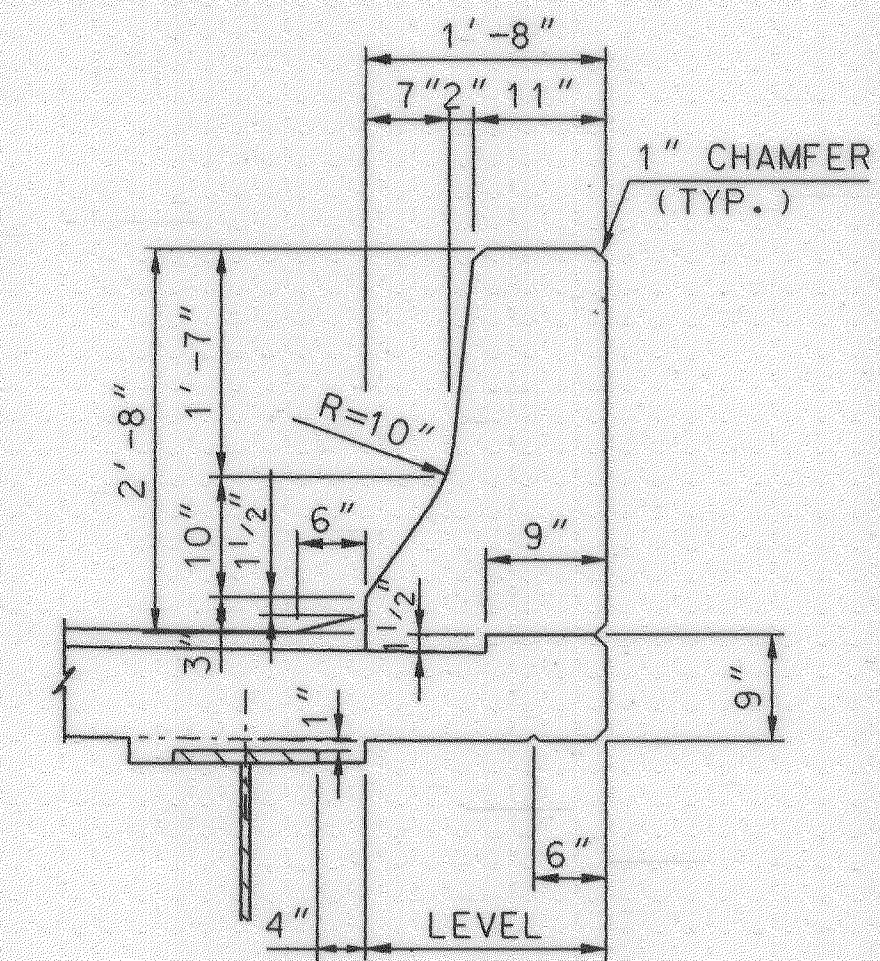
CONSTRUCTION - STAGE II

1/4" = 1'-0"



SECTION A-A

1/2" = 1'-0"



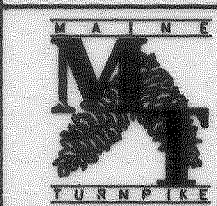
PARAPET DETAIL

3/4" = 1'-0"
10" RADIUS TYP. INCLUDING PARAPET ON WINGWALL

NOTE:

- MECHANICAL COUPLING DEVICE SHALL DEVELOP A MINIMUM OF 125 PERCENT OF YIELD STRENGTH OF REINFORCEMENT STEEL. THE COUPLING DEVICES SHALL BE PROTECTED FROM CORROSION BY EITHER GALVANIZING OR EPOXY COATING.

Maine Turnpike Authority
Maine Turnpike



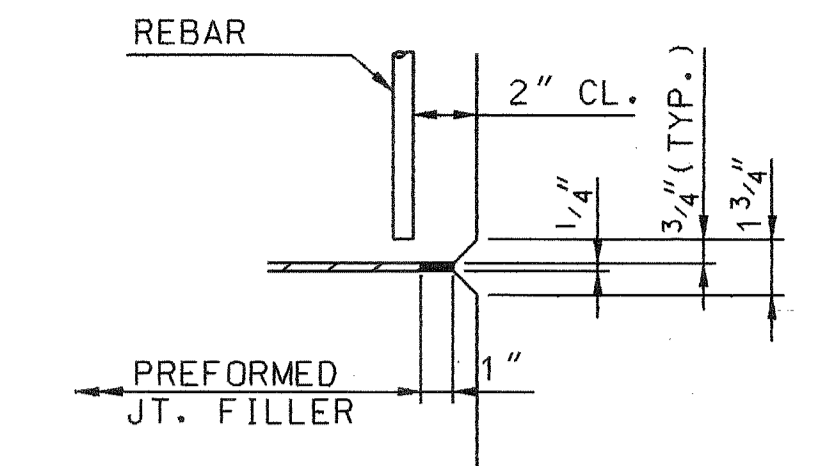
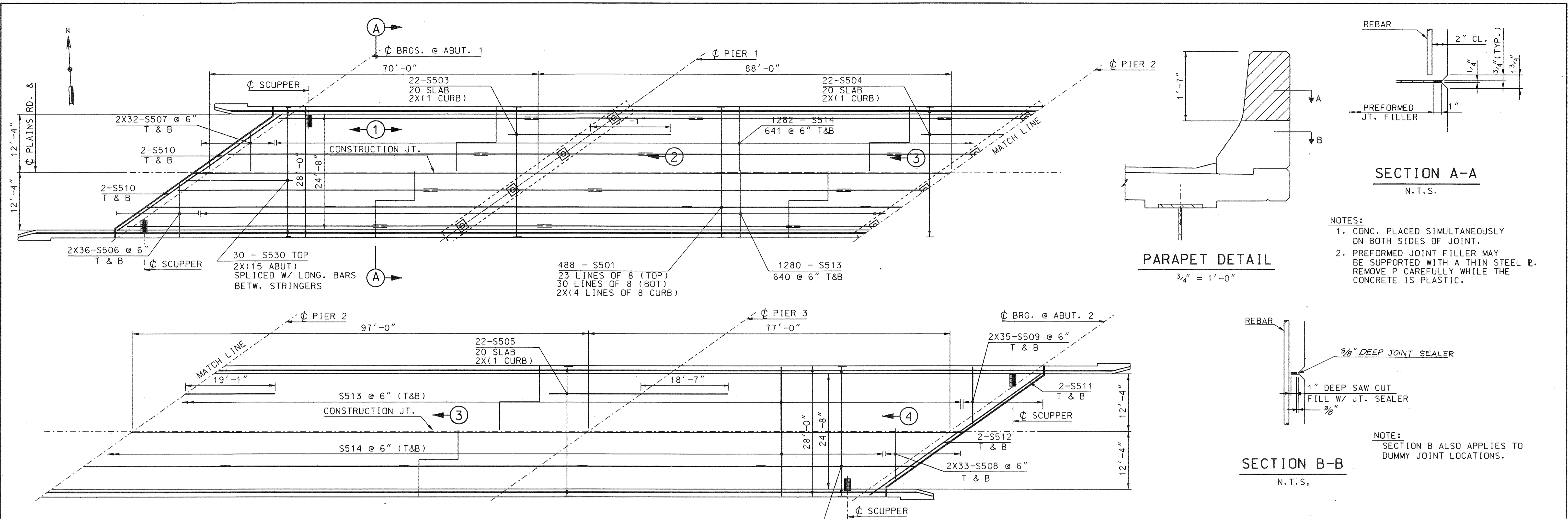
PLAINS ROAD OVER MAINE TURNPIKE CONSTRUCT. STAGING

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

				By	Date
			Designed		
			Drawn	E.G.	4/94
			Checked		
			In Charge Of:		
△	REISSUED	CFM	5/94		
No.	Revision	By	Date		

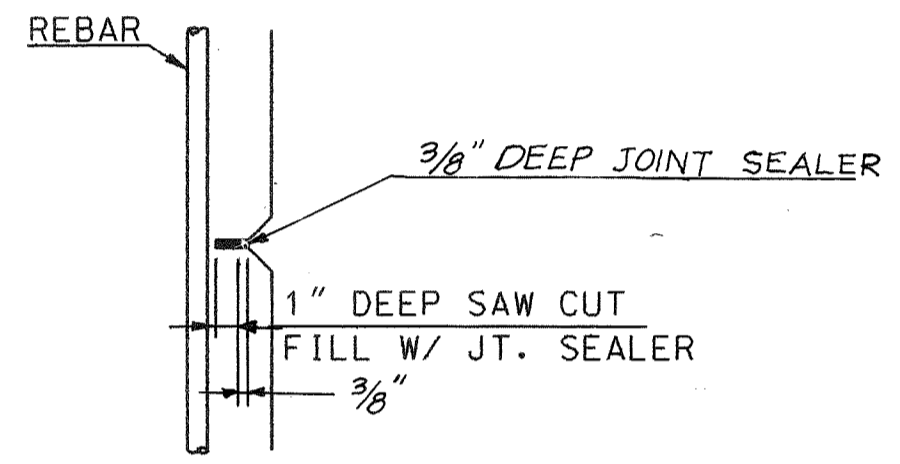
Contract 94.3

Sheet No. S-14
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SECTION A-A
N.T.S.

- NOTES:
1. CONC. PLACED SIMULTANEOUSLY ON BOTH SIDES OF JOINT.
 2. PREFORMED JOINT FILLER MAY BE SUPPORTED WITH A THIN STEEL P. REMOVE P CAREFULLY WHILE THE CONCRETE IS PLASTIC.



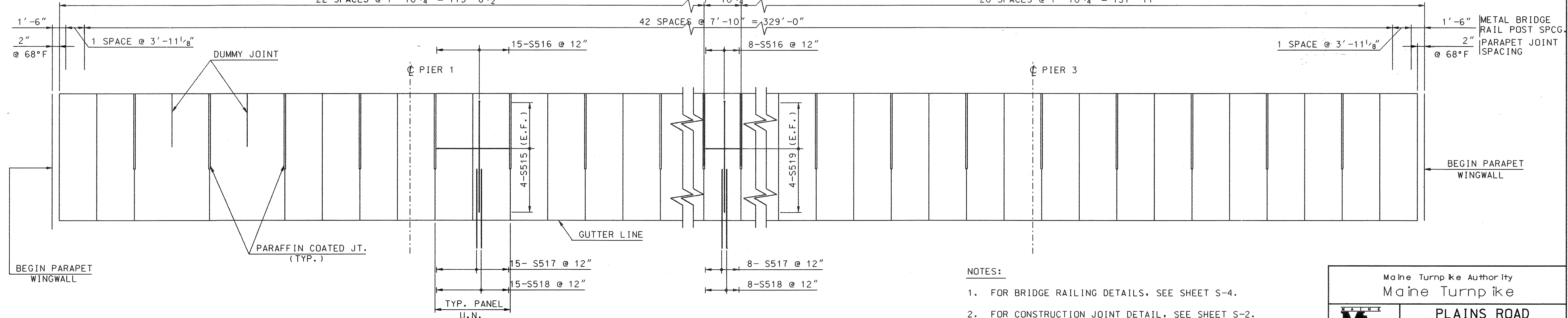
SECTION B-B
N.T.S.

- NOTE:
- SECTION B ALSO APPLIES TO DUMMY JOINT LOCATIONS.

DECK PLAN

1" = 10'

22 SPACES @ 7'-10³/₄" = 173'-8¹/₂" 20 SPACES @ 7'-10³/₄" = 157'-11"



PARAPET ELEVATION

1" = 10' (HORIZ.)
1" = 1' (VERT.)

- NOTES:
1. FOR BRIDGE RAILING DETAILS, SEE SHEET S-4.
 2. FOR CONSTRUCTION JOINT DETAIL, SEE SHEET S-2.
 3. FOR SCUPPER DETAILS, SEE SHEET S-3.

No.	Revision	By	Date	In Charge Of:
Δ	REISSUED	CFM	5/94	

Maine Turnpike Authority
Maine Turnpike

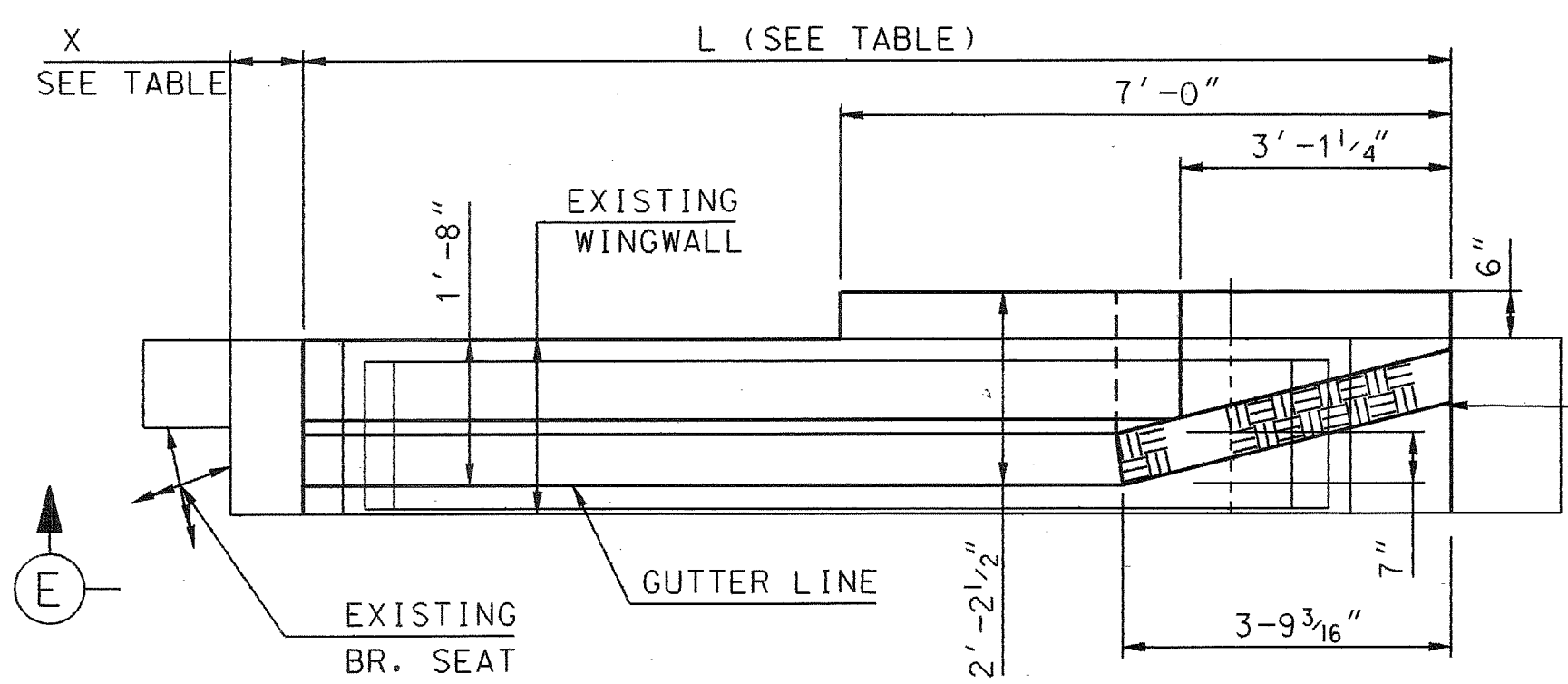
PLAINS ROAD OVER MAINE TURNPIKE DECK REINFORCING

HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

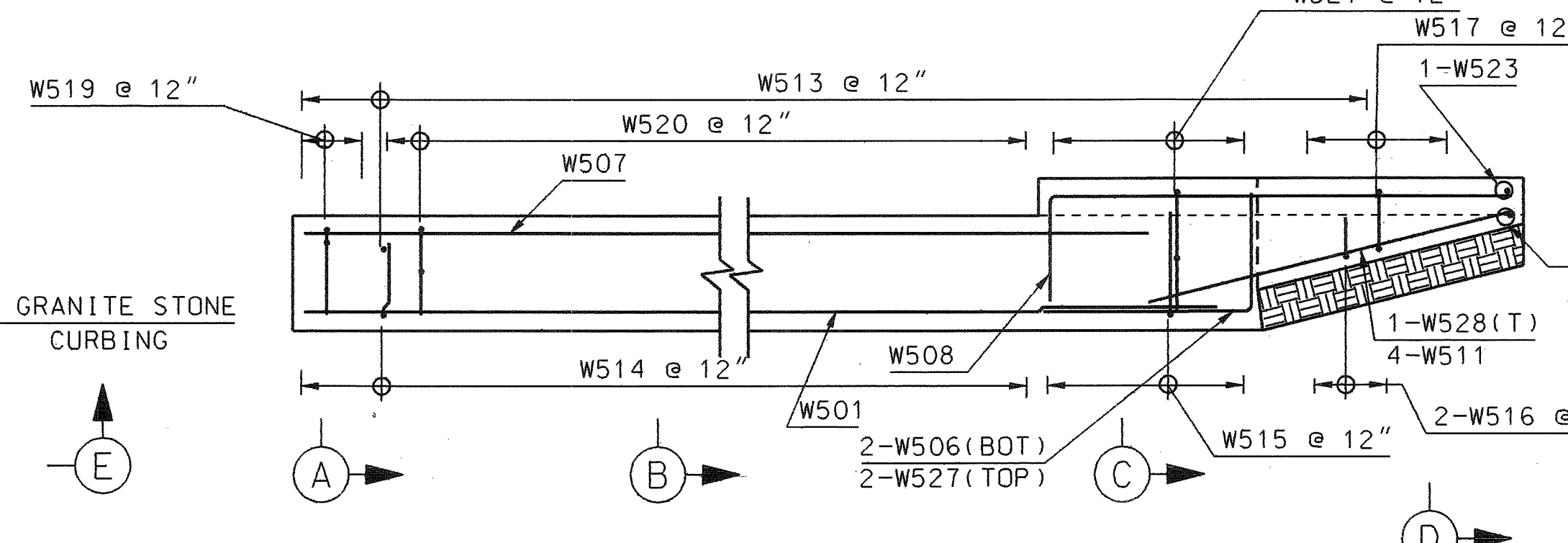
Contract 94.3 Sheet No. S-13
43 of 60

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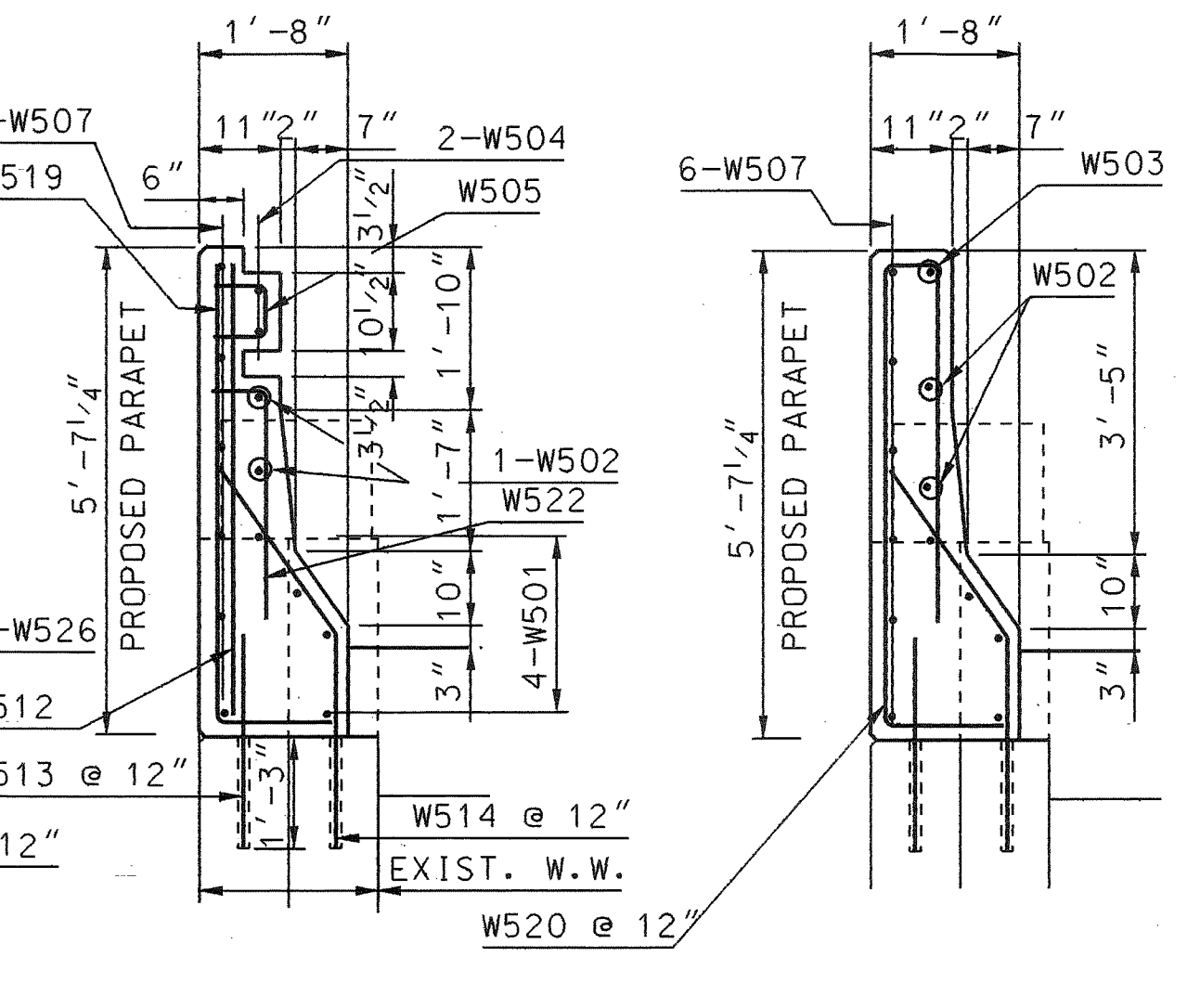
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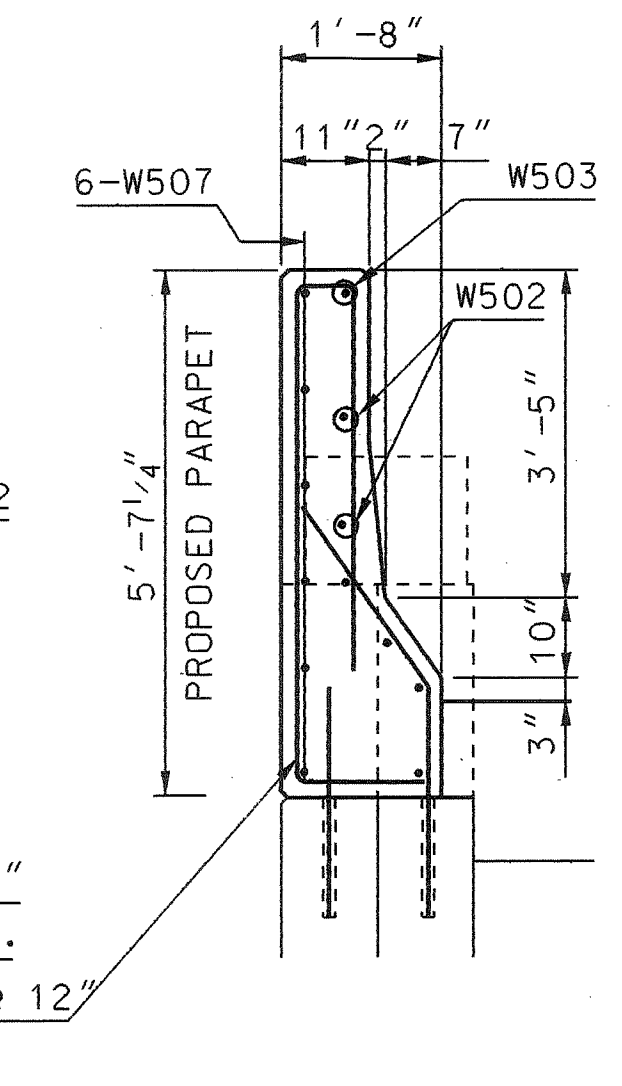
PLAN



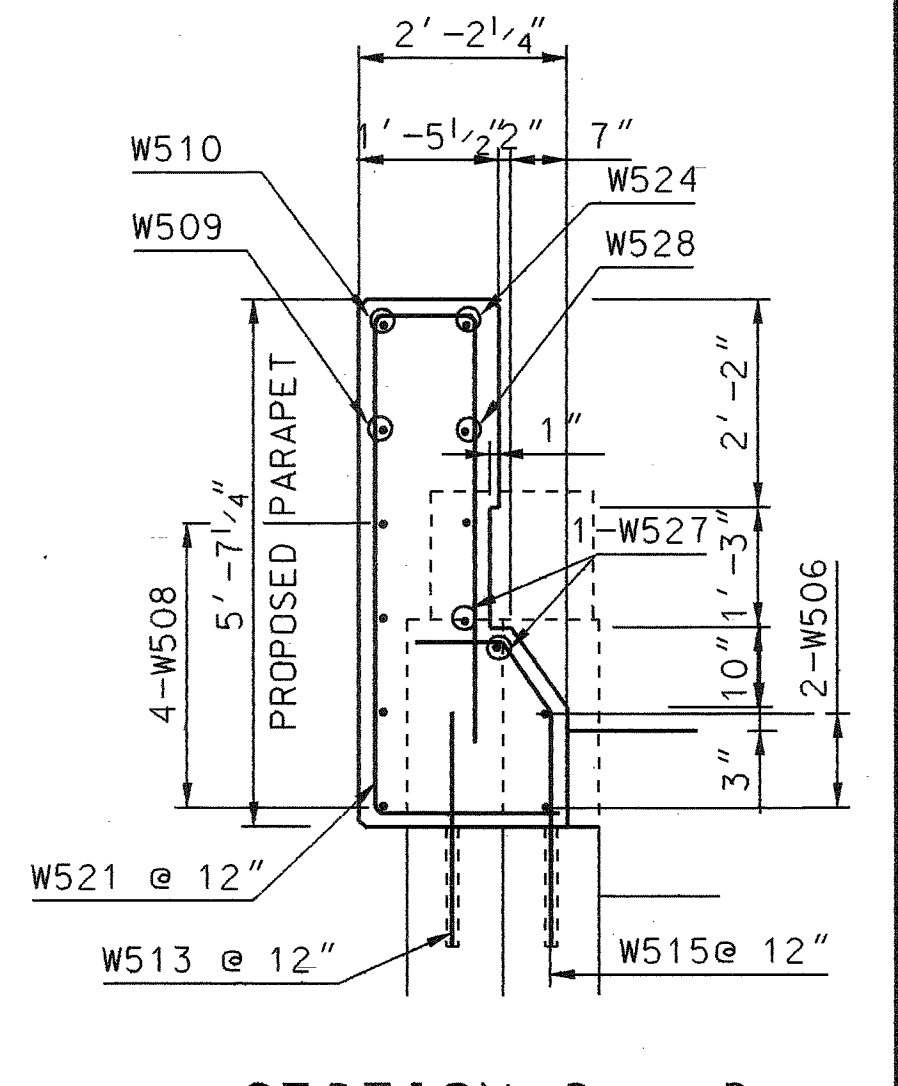
PLAN



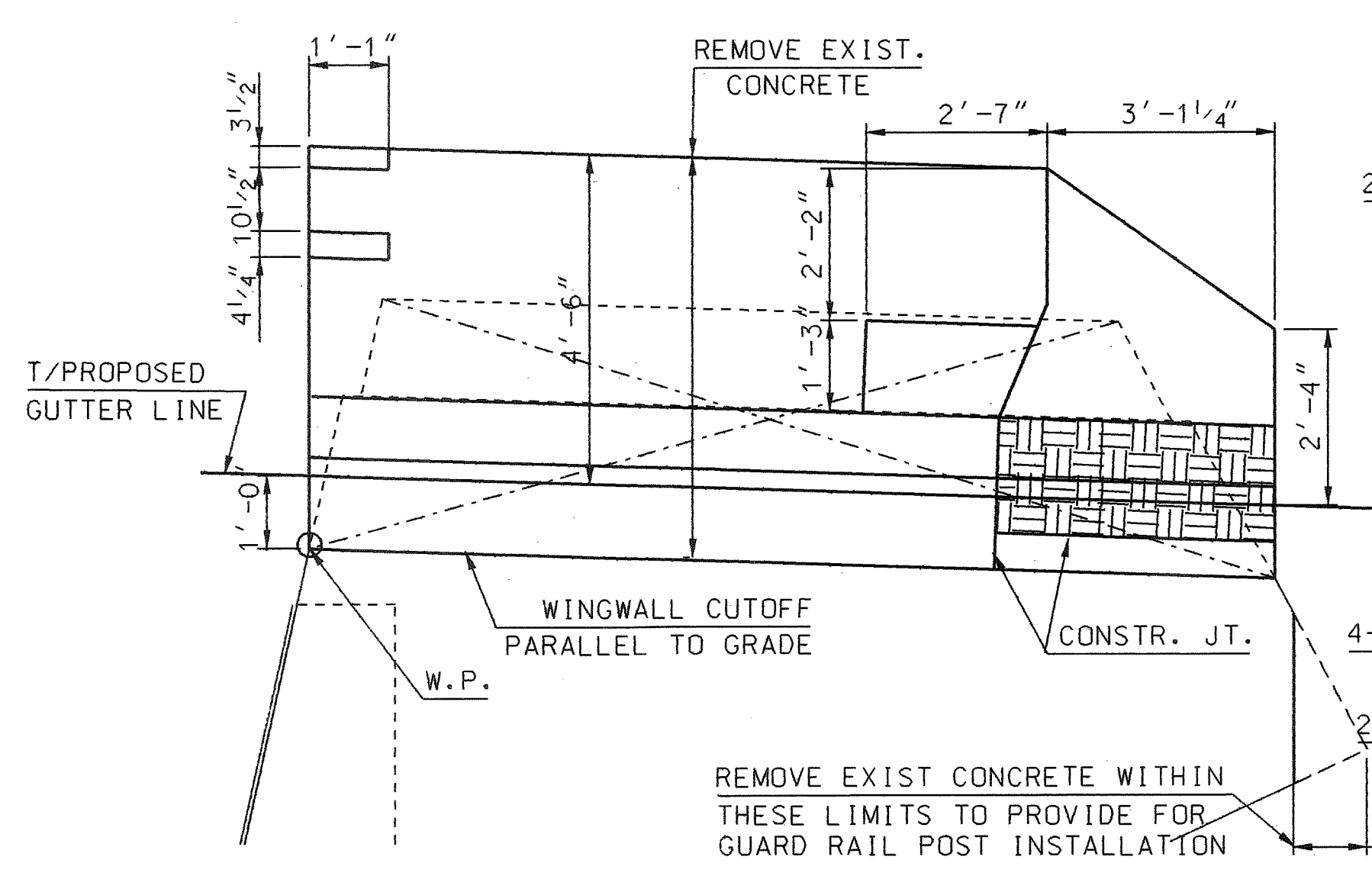
SECTION A - A
1/2" = 1'-0"



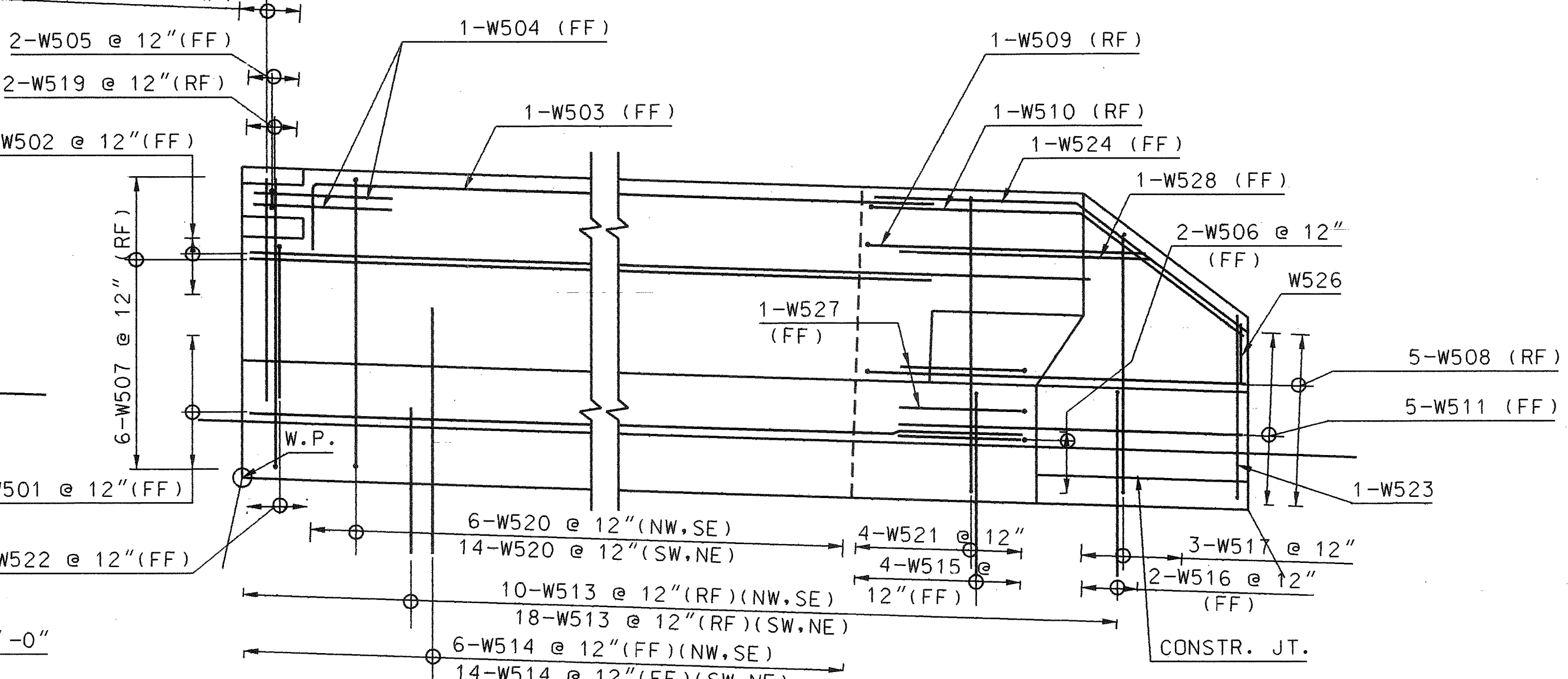
SECTION B - B
1/2" = 1'-0"



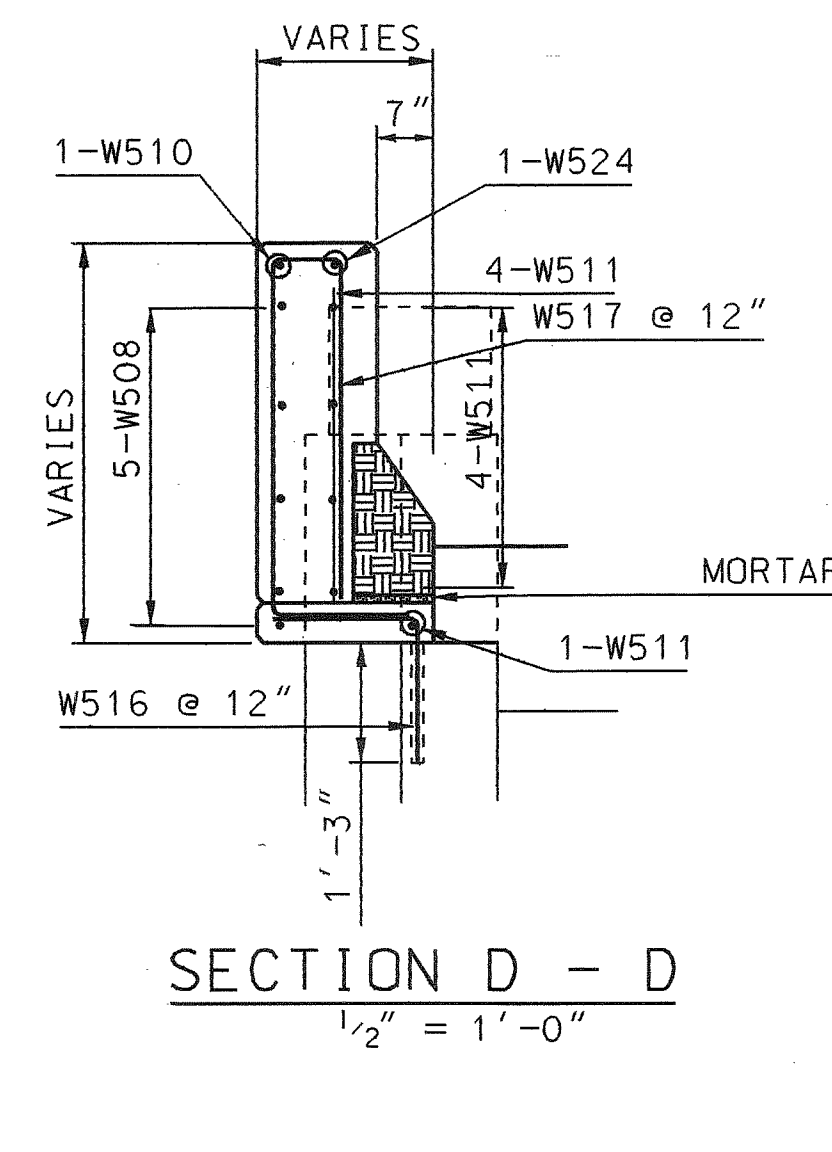
SECTION C - C
1/2" = 1'-0"



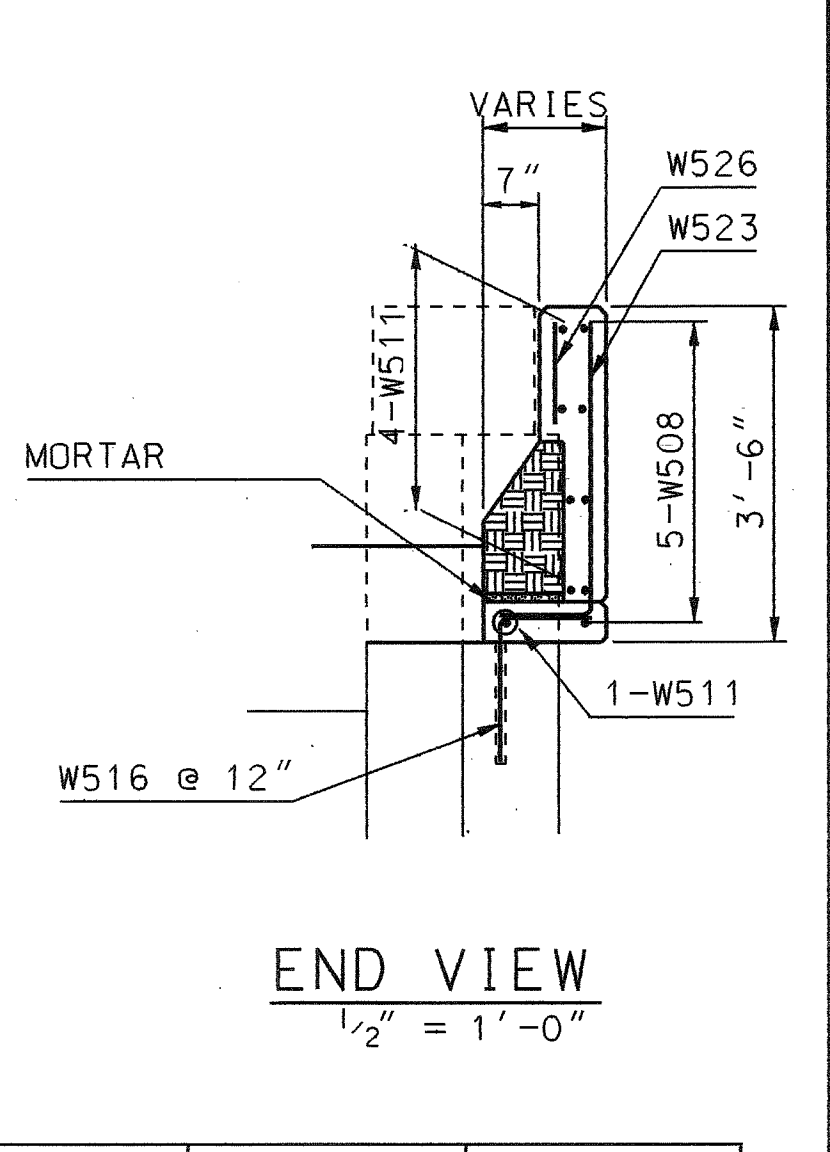
SECTION E - E
WINGWALL MODIFICATION
1/2" = 1'-0"



ELEVATION AT GUTTER
WINGWALL REINFORCING
1/2" = 1'-0"

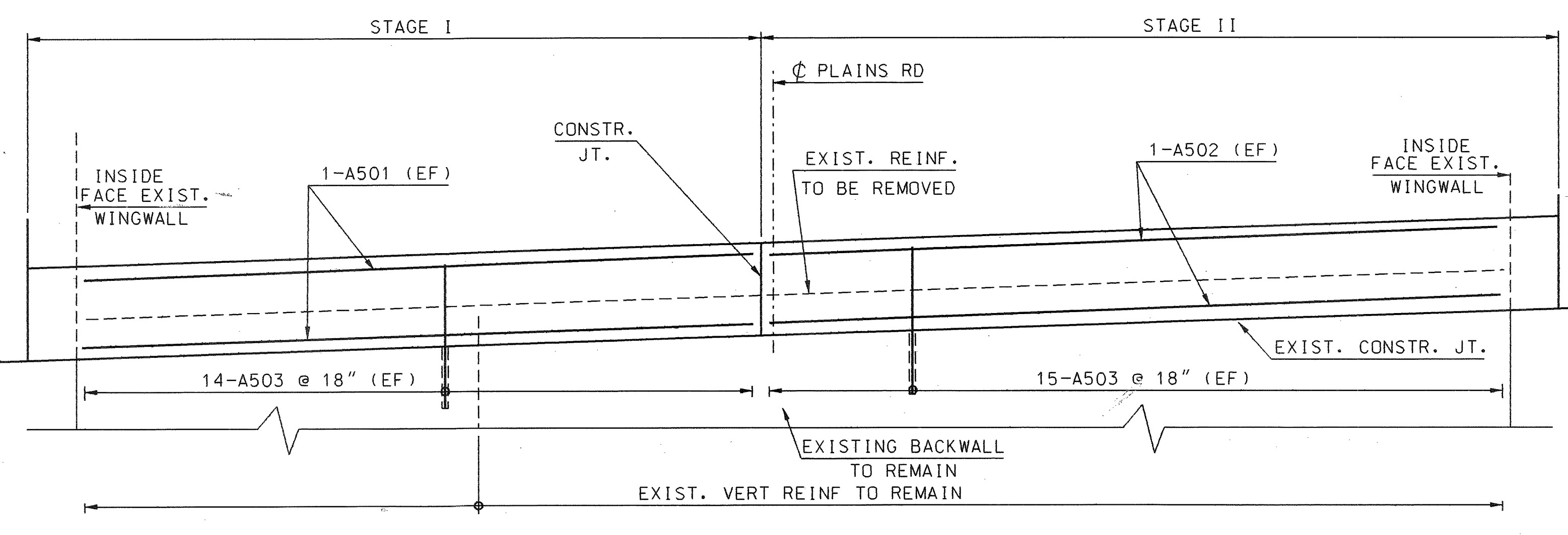


SECTION D - D
1/2" = 1'-0"

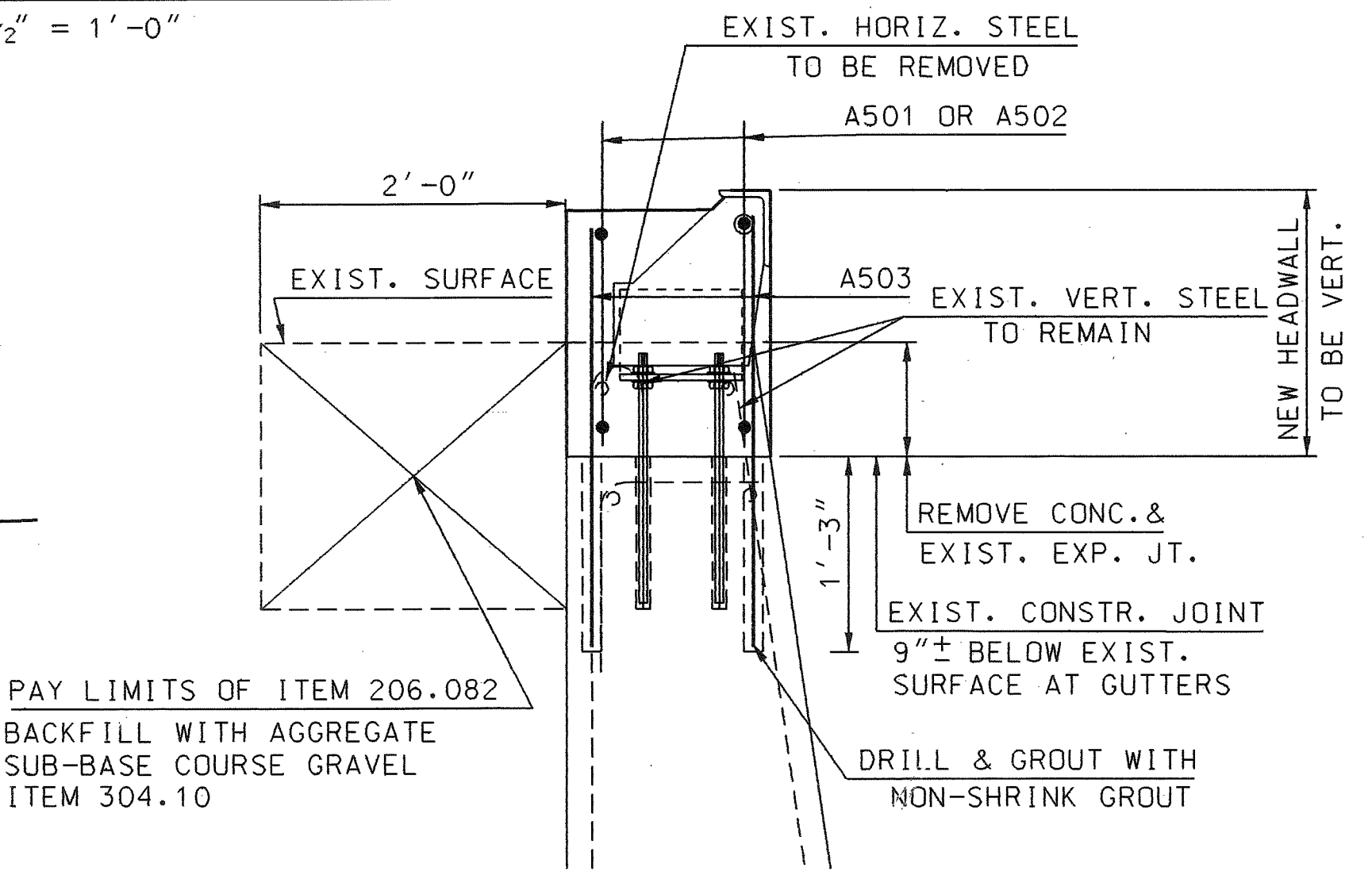


END VIEW
1/2" = 1'-0"

WINGWALL	DIMENSION X	DIMENSION L
N.W.	1'-7 7/8"	12'-4"
N.E.	1'-7 7/8"	20'-6"
S.W.	1'-7 7/8"	20'-6"
S.E.	1'-7 7/8"	12'-4"



ELEVATION
3/8" = 1'-0"
BACKWALL MODIFICATIONS
AS SHOWN

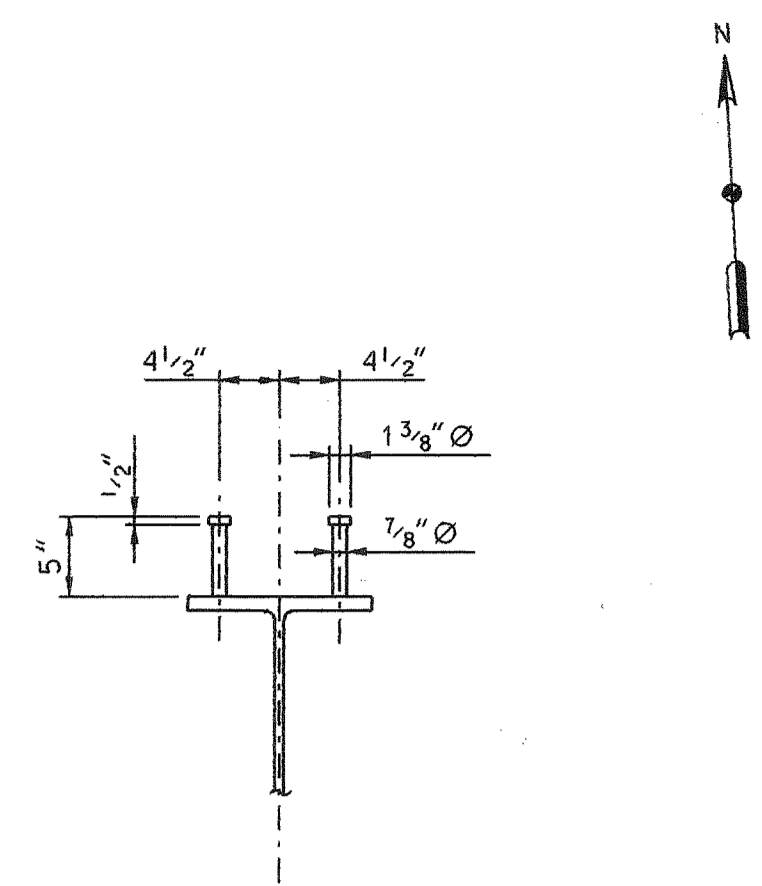


SECTION
1" = 1'-0"

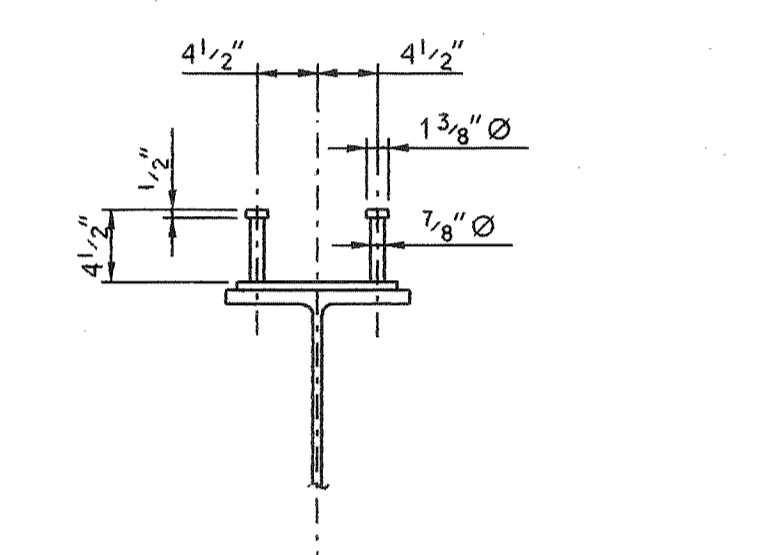
- NOTE:
- FOR REINFORCING SCHEDULE, SEE SHT S-19 & S-20.
 - FOR GRANITE STONE CURB DETAIL, SEE SHEET S-2.
 - DRILLING AND GROUTING OF REBARS TO BE PAID FOR UNDER STRUCTURAL CONCRETE ABUTMENTS, ITEM 502.21.

Maine Turnpike Authority
 Maine Turnpike
PLAINS ROAD OVER MAINE TURNPIKE WINGWALL DETAILS
 HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS
 Contract 94.3
 Sheet No. S-15
 45 of 50

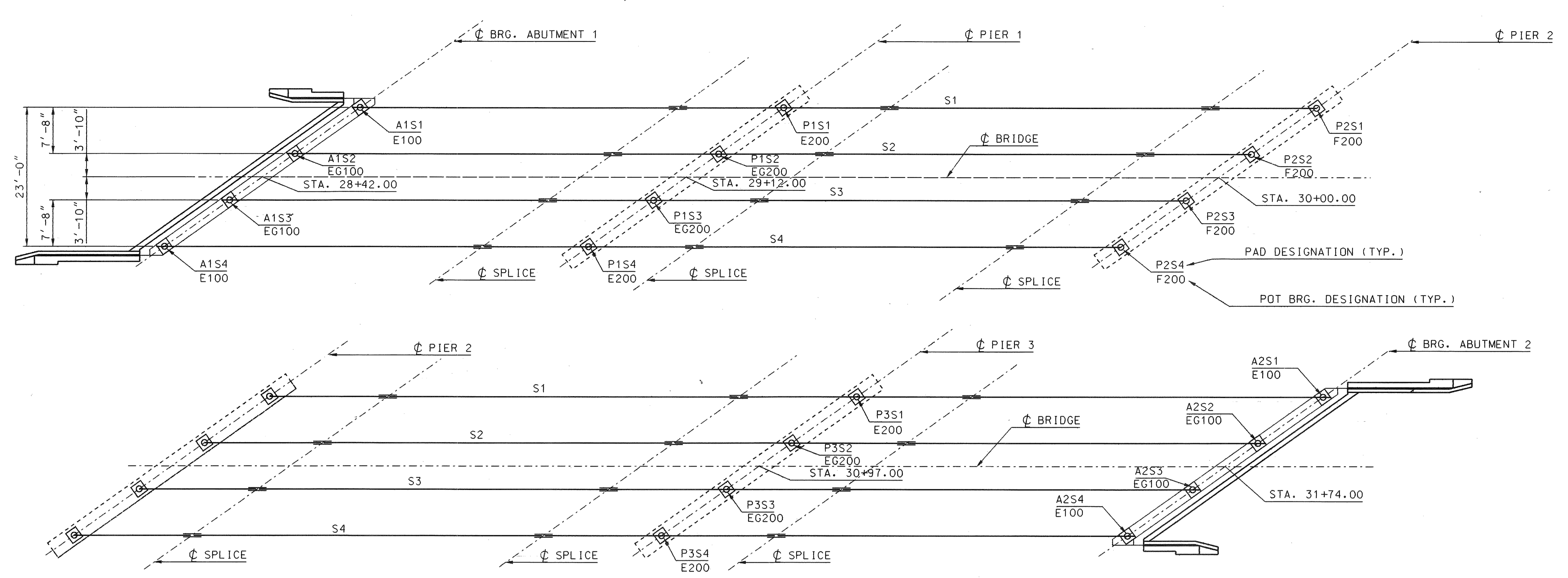
No.	Revision	By	Date	In Charge Of:
		Designed		
		Drawn	E.G.	4/94
		Checked		



SECTION A-A
SCALE: 1" = 1'-0"

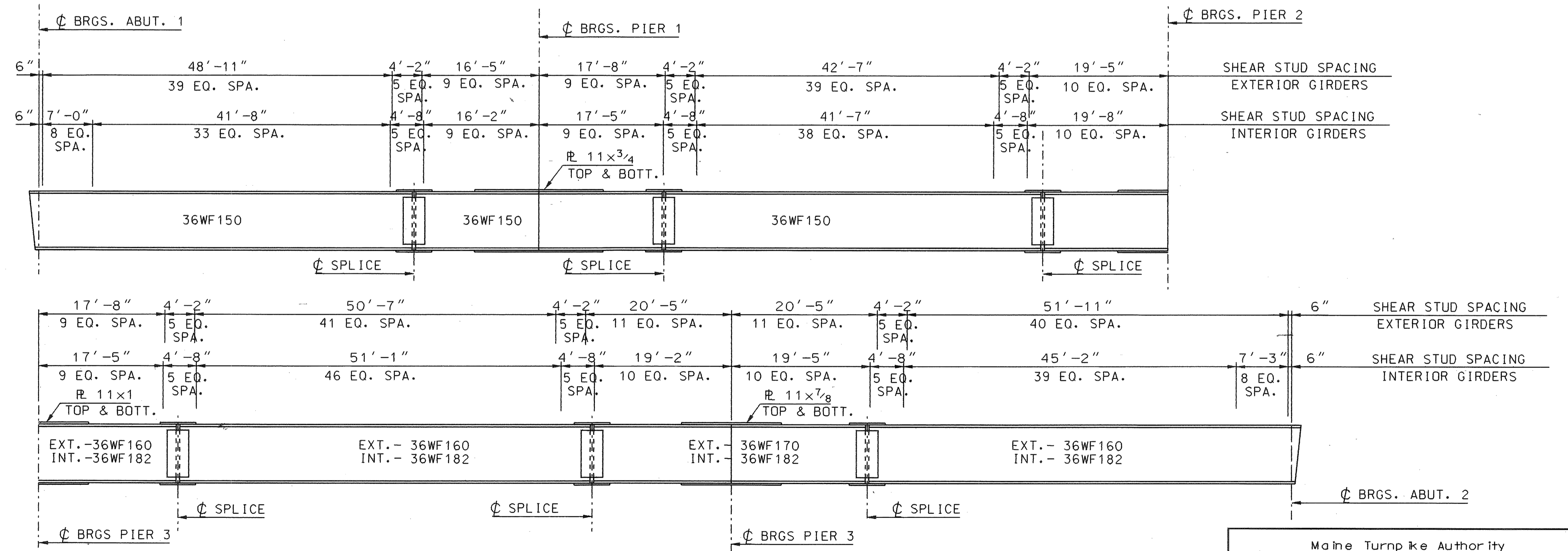


SECTION B-B
SCALE: 1" = 1'-0"



FRAMING PLAN
1" = 10'-0"

PAD TABLE					
LOCATION	Δ1 (FT.)	MASONRY R	PAD SIZE	Δ2	Δ3
A1S1	1.0000	17 3/4 x 17 3/4 x 1 3/4	21x21	.310	1.310
A1S2	1.0000	17 3/4 x 17 3/4 x 1 3/4	21x21	.193	1.193
A1S3	1.0000	17 3/4 x 17 3/4 x 1 3/4	21x21	.193	1.193
A1S4	1.0000	17 3/4 x 17 3/4 x 1 3/4	21x21	.310	1.310
P1S1	1.0000	20 1/4 x 20 1/4 x 1 3/4	24x24	.580	1.580
P1S2	1.0000		24x24	.423	1.423
P1S3	1.0000		24x24	.423	1.423
P1S4	1.0000		24x24	.580	1.580
P2S1	1.0000		24x24	.243	1.243
P2S2	1.0000		24x24	.243	1.243
P2S3	1.0000		24x24	.243	1.243
P2S4	1.0000		24x24	.243	1.243
P3S1	1.0000		24x24	.573	1.573
P3S2	1.0000		24x24	.423	1.423
P3S3	1.0000		24x24	.423	1.423
P3S4	1.0000	20 1/4 x 20 1/4 x 1 3/4	24x24	.573	1.573
A2S1	1.0000	17 3/4 x 17 3/4 x 1 3/4	21x21	.310	1.310
A2S2	1.0000	17 3/4 x 17 3/4 x 1 3/4	21x21	.193	1.193
A2S3	1.0000	17 3/4 x 17 3/4 x 1 3/4	21x21	.193	1.193
A2S4	1.0000	17 3/4 x 17 3/4 x 1 3/4	21x21	.310	1.310



TYPICAL BEAM ELEVATION
N.T.S.

NOTES:
 Δ1 = AMOUNT OF THE ROADWAY IS TO BE RAISED
 Δ2 = THE DIFFERENCE BETWEEN EXISTING & PROPOSED BEARING
 Δ3 = TOTAL Δ1+Δ2 (INCREASE IN BEARING PAD HEIGHT)

NOTES:
 1. SEE POT BRG. DETAILS. SEE SHEET NO. S21
 2. ALL PAD REINFORCEMENT IS TO BE EPOXY COATED.
 3. IF THE POT BEARINGS APPROVED ARE DIFFERENT THAN THOSE DETAILED IN THE PLANS, THE PAD HEIGHT, SHALL BE ADJUSTED ACCORDINGLY.

By	Date
Designed	
Drawn	
Checked	
In Charge Of:	
No.	Revision

Maine Turnpike Authority
Maine Turnpike

PLAINS ROAD OVER MAINE TURNPIKE FRAMING PLAN

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS

Contract 94.3 Sheet No. S16 of 60

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