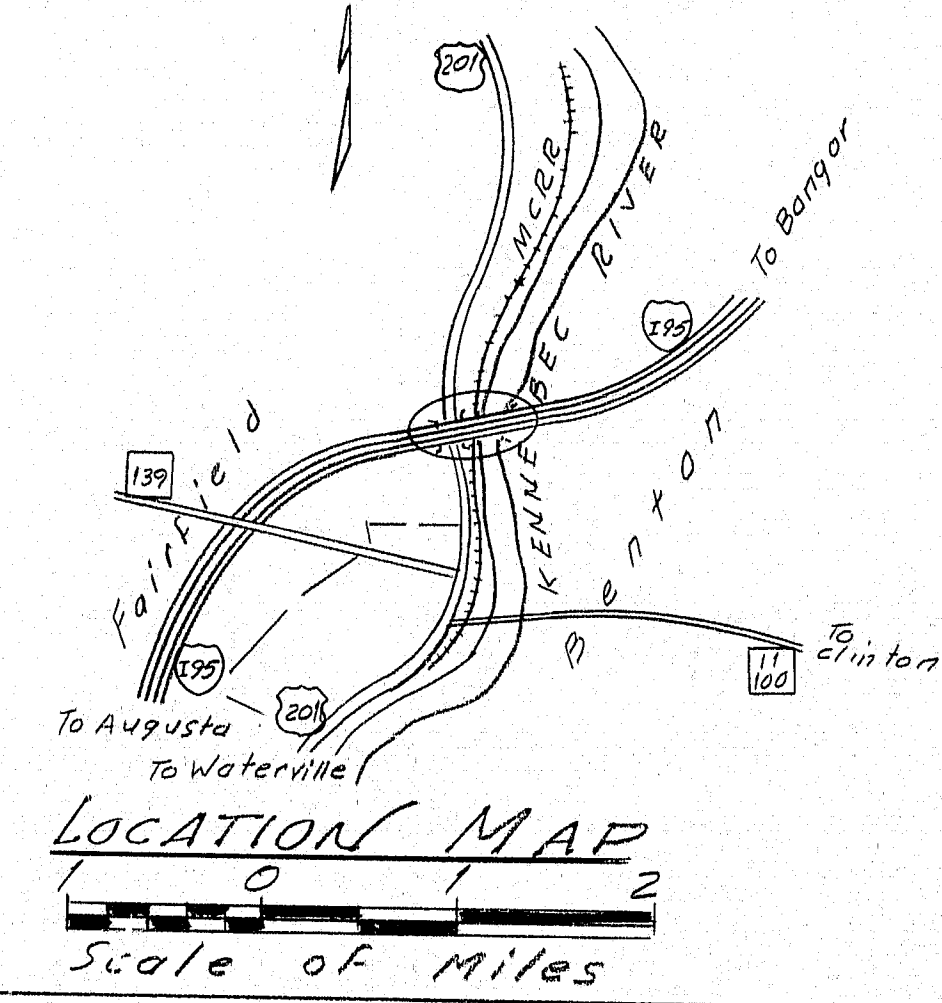


F.R.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	119-126	1	23

SPECIFICATIONS
 DESIGN: AASHTO Standard Specifications for Highway Bridges 1983 and Interim Specifications 1984 and 1985.
 CONTRACT: State of Maine, Department of Transportation Standard Specifications for Highways and Bridges, Revision of Jan. 1984.

MATERIALS
 CONCRETE: Class A (except as noted)
 REINFORCING STEEL: ASTM A615, Grade 60
 STRUCTURAL STEEL: ASTM A36
 H.S. BOLTS: ASTM A325, Type 1
BASIC DESIGN STRESSES
 CONCRETE: $f'_c = 3,000$ psi
 REINFORCING STEEL: $f_y = 60,000$ psi
 STRUCTURAL STEEL: ASTM A36 $f_y = 36,000$ psi
 ASTM A325 $f_u = 25,000$ psi

TRAFFIC
 I-95 N.B. I-95 S.B.
 AADT: 1987: 6745, 4865
 AADT: 2007: 9445, 6810
 D.V.: 1228, 953
 T(%) : 7, 7
 D: 100, 100
 18 kip: P2.5, 949, 115

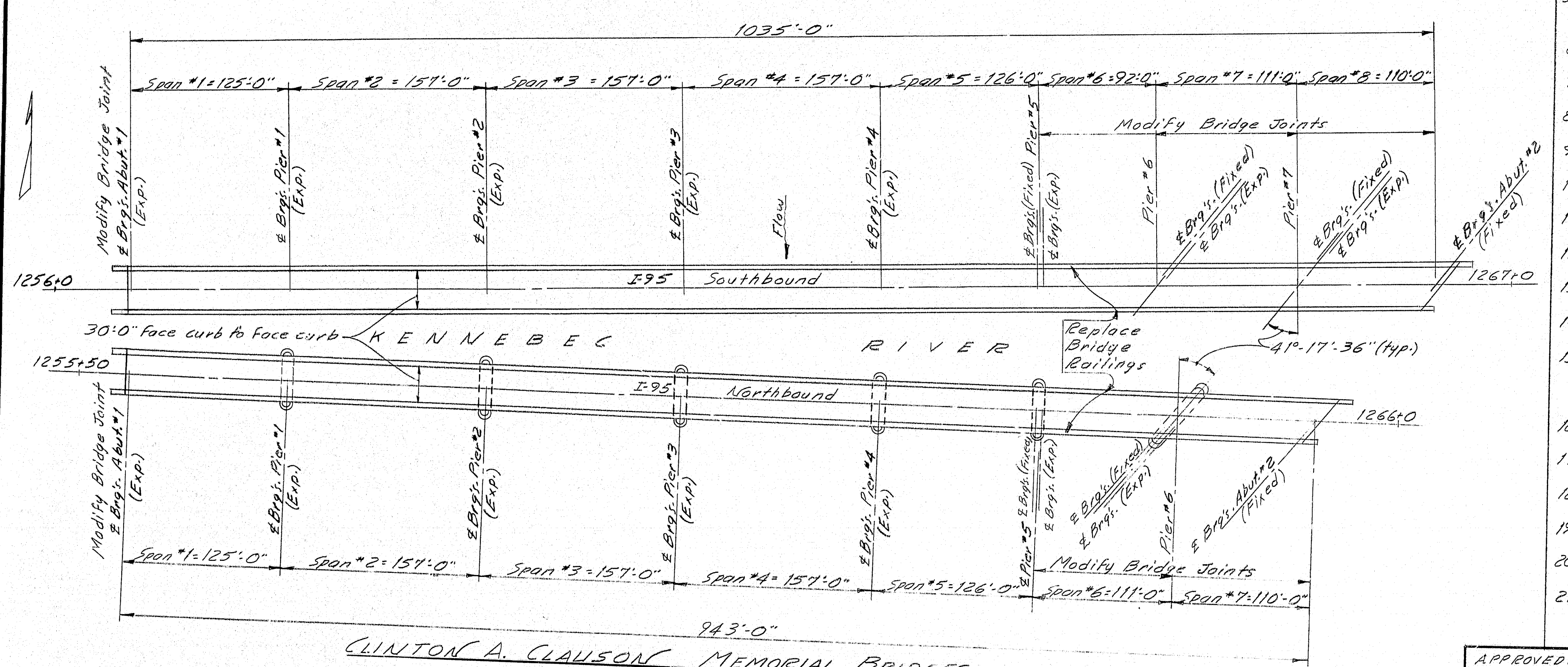
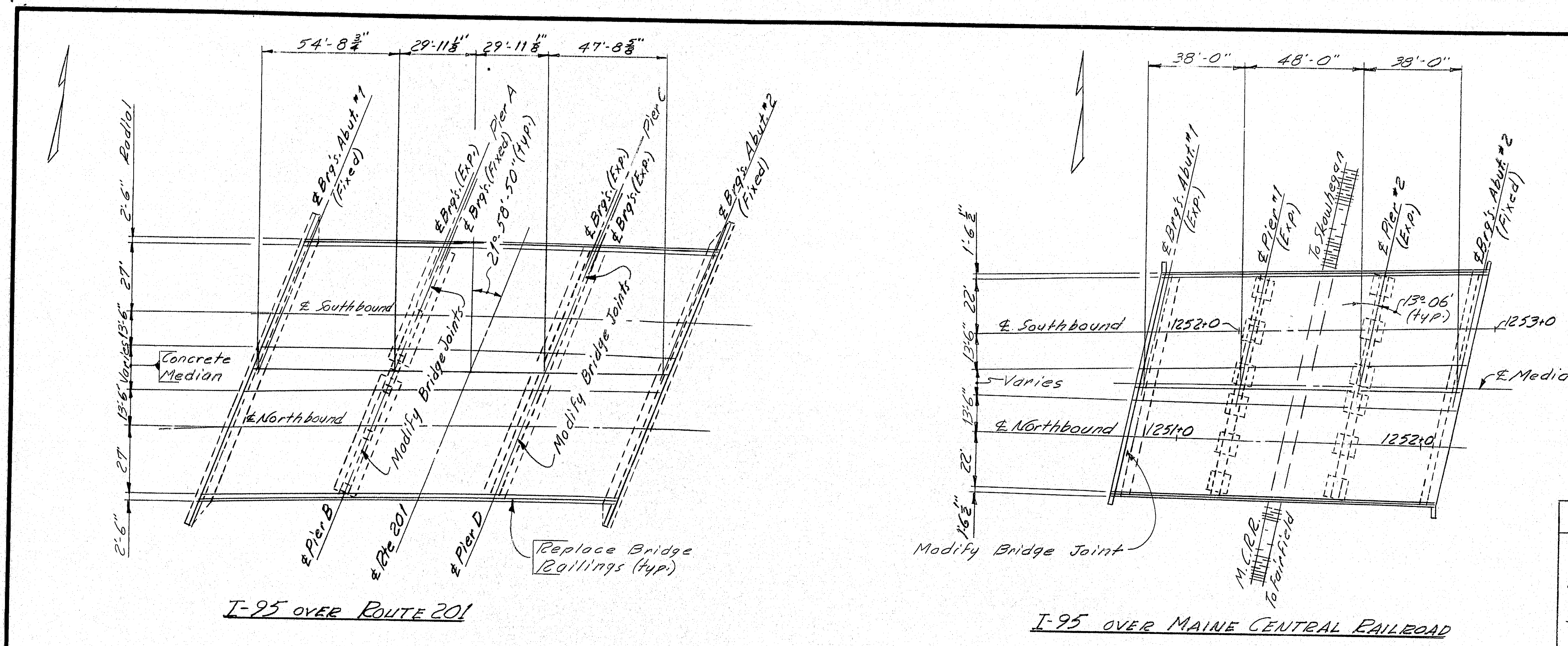


INDEX OF SHEETS	
1. General Plan	
2. Estimated Bridge Quantities & Construction Notes	
3. Approaches	
4. Joint Details at Piers	
5. Rail Post Spacings and Drain Modifications	I-95 over Route 201
6. Joint Details at Abutment #1	I-95 over M.C.R.R.
7. End Post Details	
8. Abutment #1 N.B. & S.B. Modified Finger Joint	
9. Joint Detail Pier #5 N.B. & S.B.	
10. Joint Detail Pier #6 N.B. & Piers #6 & #7 S.B.	
11. Joint Detail Abutment #2 N.B. & S.B.	
12. Joint Sections	
13. Rail Post Spacings	
14. End Post No. 1 & No. 2	
15. Reinforcing Steel Schedule	
STANDARD DETAIL SHEETS	
16. BD 114-81 Aluminum Bridge Railing	
17. BD 120-81 Concrete End Posts	
18. BD 126-81 Miscellaneous Details	
19. BD 127-81 Miscellaneous Details	
20. Type 3 Guard Rail	
21 thru 23. Traffic Control Plans	

SCOPE OF WORK
 All Bridges: Remove existing pavement and membrane waterproofing. Modify all expansion devices. Place new membrane waterproofing and 3 inches of hot bituminous pavement. Clean and paint existing structural steel.
 I-95 over U.S. Route 201: Modify existing bridge drains. Remove existing bridge rail and concrete parapet. Install standard 2-bar aluminum bridge rail.
 I-95 over M.C.R.R.: Remove existing end posts and place new concrete end posts.
 Clinton A. Clauson: Remove existing bridge rail and concrete parapet. Install standard 2-bar aluminum bridge rail.
 Approaches: Grind 2 inches existing pavement and replace with 3 inches Hot Bituminous Pavement on southerly approaches and between all bridges. Provide pavement grade transitions. Remove, reset and modify guard rail as required.
 The above 'Scope of Work' includes both Northbound and Southbound.

As Built
 6/5/80
 119-126

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 I-95 OVER ROUTE 201
 I-95 OVER MAINE CENTRAL RAILROAD
 CLINTON A. CLAUSON
 MEMORIAL BRIDGES
 IN THE TOWNS OF
 FAIRFIELD & BENTON
 KENNEBEC & SOMERSET COUNTIES
GENERAL PLAN
 SHEET 1 OF 23 AUGUSTA, MAINE



All work contemplated under this contract shall be governed by and in conformity with the Standard Specifications (Revision of 1984) and supplements thereto except as modified on the plans and the Special Provisions.

Plans of the existing bridges are available for the Contractors reference at the Bridge Design Office in Augusta. The plans are reproductions of original drawings as prepared for the construction of the bridge and it is very unlikely that the plans will have any field changes or any alterations. Any field changes made to the bridge during its life span.

APPROVED:
 STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 COMMITTEE: 2-19-87
 DATE: 2-19-87
 CHIEF ENGINEER: Robert Brown

UNIFIED STATES
 DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 REGION 1
 APPROVED: 2-19-87
 DATE: 2-19-87
 DIVISION ADMINISTRATION: DATE

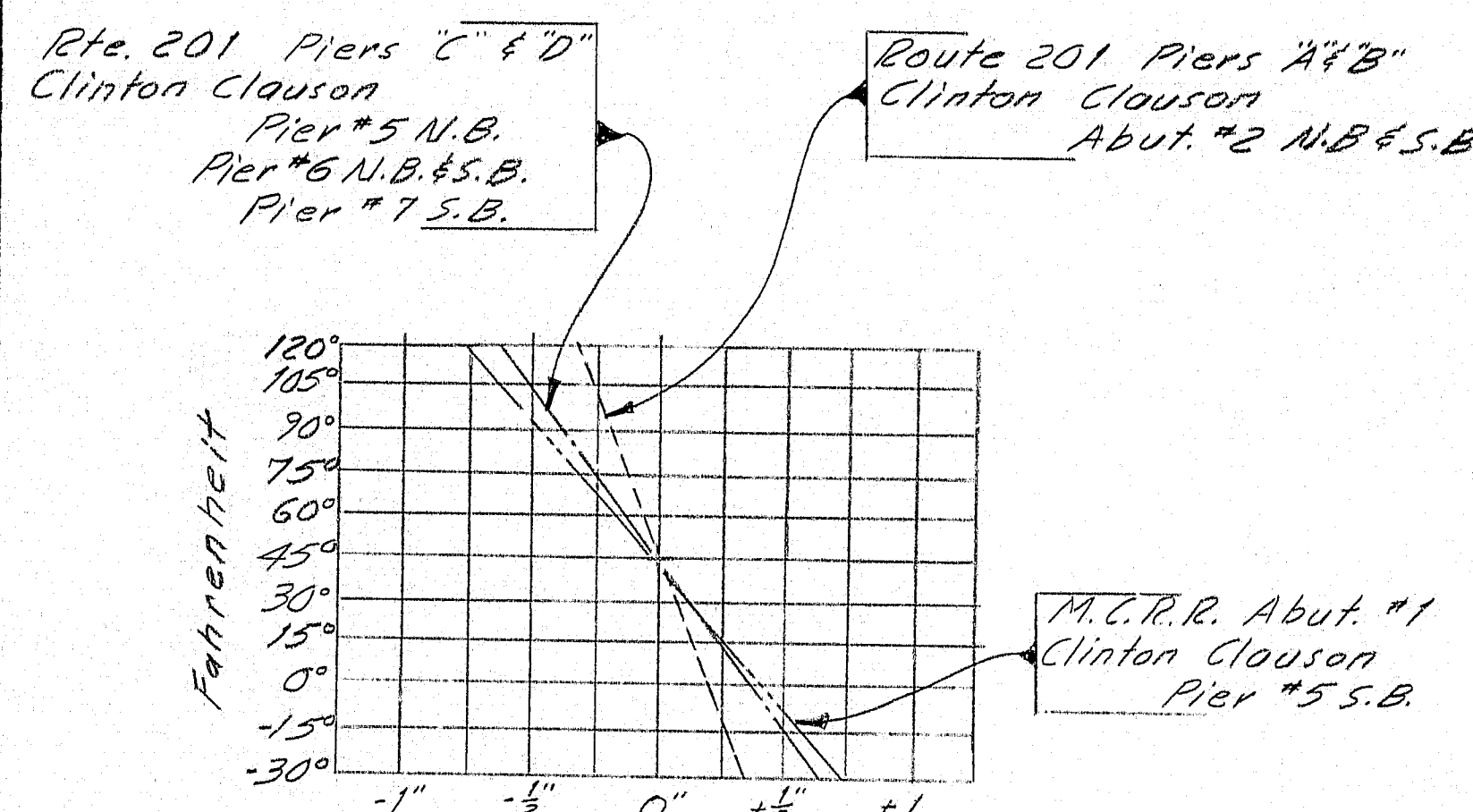
PROJECT DESIGN ENGINEER	DATE
BY: BTA	12-86
CHECKED: JMD	2-1-87
REVISIONS	
FIELD CHANGES	
PLANS	

PRINTING 44-12-8701

ESTIMATED BRIDGE QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
202.127	Removal of Existing Bituminous Pavement	1	Lump Sum
202.128	Removal of Existing Concrete Curbs & Sidewalk	1	Lump Sum
202.13	Removing Existing Railings Retained by Department	4,390	Lin. Ft.
202.202	Removing Pavement Surface	6,160	Sq. Yds.
403.07	Hot Bituminous Pavement Grading B	650	Tons
403.08	Hot Bituminous Pavement Grading C	2,000	Tons
403.121	Hot Bituminous Pavement Grading E (Graveling)	50	Tons
410.15	Emulsified Asphalt, Applied	310	Gal.
502.70	Bridge Drains	6	Each
502.75	Plugging Existing Bridge Drains	6	Each
503.12	Reinforcing Steel, Fabricated and Delivered	6,700	Lbs.
503.13	Reinforcing Steel, Placing	6,700	Lbs.
506.142	Field Painting Existing Structural Steel	1	Lump Sum
506.16	Surface Preparation of Existing Structural Steel	3,500	Man Hr.
507.092	Aluminum Bridge Railing 2 Bar	4340	Lin. Ft.
508.13	Membrane Waterproofing (9260 sq. yd.)	1	Lump Sum
518.30	Rehabilitation of Structural Concrete Slab - to Reinforcing Steel	4140	Sq. Ft.
518.31	Rehabilitation of Structural Concrete Slab - to Below Reinforcing Steel	1660	Sq. Ft.
520.2401	Bridge Joint Modification - Route 201 (Piers)	4	Each
520.2402	Bridge Joint Modification - M.C.R.R. (Abut. #1)	1	Each
520.2403	Bridge Joint Modification - Clinton Clouston (Abut. #1)	2	Each
520.2404	Bridge Joint Modification - Clinton Clouston (Piers #5)	2	Each
520.2405	Bridge Joint Modification - Clinton Clouston (Piers #6 & #7)	3	Each
520.2406	Bridge Joint Modification - Clinton Clouston (Abut. #2)	2	Each
526.30	Temporary Concrete Barrier, Type 1	5,000	Lin. Ft.
526.40	Resetting Temporary Concrete Barrier, Type 1	5,000	Lin. Ft.
527.32	Portable Crash Barrels	10	Each
606.173	Bridge Connections	16	Each
606.364	Guard Rail Remove, Modify and Reset	650	Lin. Ft.
627.611	6 inch Solid White Pavement Marking Line	3,700	Lin. Ft.
627.621	6 inch Broken White Pavement Marking Line	5,700	Lin. Ft.
627.631	6 inch Solid Yellow Pavement Marking Line	3,700	Lin. Ft.
627.67	Removing Pavement Markings	165	Sq. Ft.
627.691	Temporary 6 inch Plastic Pavement Markings, Yellow or White	2,650	Lin. Ft.
639.19	Field Office, Type B	1	Each
652.30	Flashing Arrow Board	2	Each
652.31	Type 1 Barricades	80	Each
652.33	Drums	10	Each
652.34	Cones	20	Each

ITEM	DESCRIPTION	QUANTITY	UNIT
652.35	Construction Signs	700	Sq. Ft.
652.36	Maintenance of Traffic Control Devices	170	C.D.
652.38	Flagger	800	Man Hr.
659.10	Mobilization	1	Lump Sum
ESTIMATE OF LUMP SUM QUANTITIES			
202.127	Removal of Existing Bituminous Pavement	9,125	Sq. Yd.
506.142	Field Painting Existing Structural Steel	2,820,000	Lbs.



COMPRESSION SEAL ADJUSTMENT CHART

1. The seals to be furnished shall have a minimum Movement Rating of:

Route 201:

Piers A & B = $\frac{5}{8}$ "
Piers C & D = $\frac{1}{2}$ "

Maine Central Railroad:

Abutment No. 1 = $\frac{1}{2}$ "

Clinton A. Clouston:

Pier #5 N.B. = $\frac{1}{4}$ " S.B. = $\frac{1}{8}$ "
Pier #6 N.B. & S.B. = $\frac{1}{8}$ "
Pier #7 S.B. = $\frac{1}{8}$ "
Abutment #2 N.B. & S.B. = $\frac{5}{8}$ "

2. The seals shall be approved by the Engineer prior to fabrication of the joint armor.

3. The joint opening will vary depending on the dimensions of the seal selected by the Contractor. The joint opening shall be set out in the opening shown on the approved shop detail drawings.

4. The Adjustment Chart shows the adjustment necessary to set the joint opening for temperatures other than 45°F. Measurement is to be made parallel to the centerline of construction.

CONSTRUCTION NOTES

- One 12 foot minimum lane of traffic shall be maintained in each direction at all times.
- Removal of pavement surface on approaches will be paid for under Item 202.202, Removing Pavement Surface.
- Existing Type 3 guard rail, outside the limits designated to be removed, modified and reset, shall be modified by removing plate washers, except of anchorage assemblies, and by adding backup plates at intermediate posts. Payment will be made under provision of Subsection 104.03, Extra Work.
- Reinforcing steel shall have a minimum cover of 2 inches unless otherwise indicated.
- Existing structural steel shall be cleaned and painted.
- Remove existing wearing surface and place new wearing surfaces consisting of 3 inches of hot bituminous pavement with membrane waterproofing.
- Payment for drilling and grouting will be considered incidental to Item 503.13 Reinforcing Steel, Placing.

- Removal of the downspouts on Route 201 Bridge will be paid for under Item 502.75, Plugging Existing Bridge Drains. The downspouts are to be retained by the Department.
- Removal of concrete portion of railings on the Route 201 and the Clinton A. Clouston Bridges will be paid for under Item 202.128 Removal of existing Concrete Curbs and Sidewalks.
- See Special Provision Section 507 for the drilling and grouting of rail post anchors.
- Removal and re-installation of the plaque on the northbound Clinton A. Clouston bridge shall be done as directed by the Engineer. Payment for removing and re-installation of the plaque will be considered incidental to related contract items.

- Existing reinforcing steel to remain shall be cleaned as directed prior to placing new concrete.
- The removal of existing concrete and placing concrete for new concrete end posts including hardware and incidentals shall be paid for under Item 606.173, Bridge Connection.
- Exact locations and details of construction joints for the expansion device modifications, where required for stage construction, shall be as approved.
- The upturned ends of the compression seals shall be sealed in an approved manner.
- Protective coating for concrete surfaces shall be applied to all exposed surfaces of new concrete, except of the bottom of slab, and to all newly exposed surfaces of existing concrete. Payment for protective coating will be considered incidental to related contract items.

LEGEND

N.F. = Near Face N.B. = Northbound
F.F. = Far Face S.B. = Southbound
E.F. = Each Face S.P. = spaces
P. = at

SYMBOLS

- New Concrete (Plan & Elevation)
- New Concrete (Section)
- Existing Concrete & Granite (to be removed)
- Existing Concrete (to remain)
- Hot Bituminous Pavement
- Existing Granite (to remain)

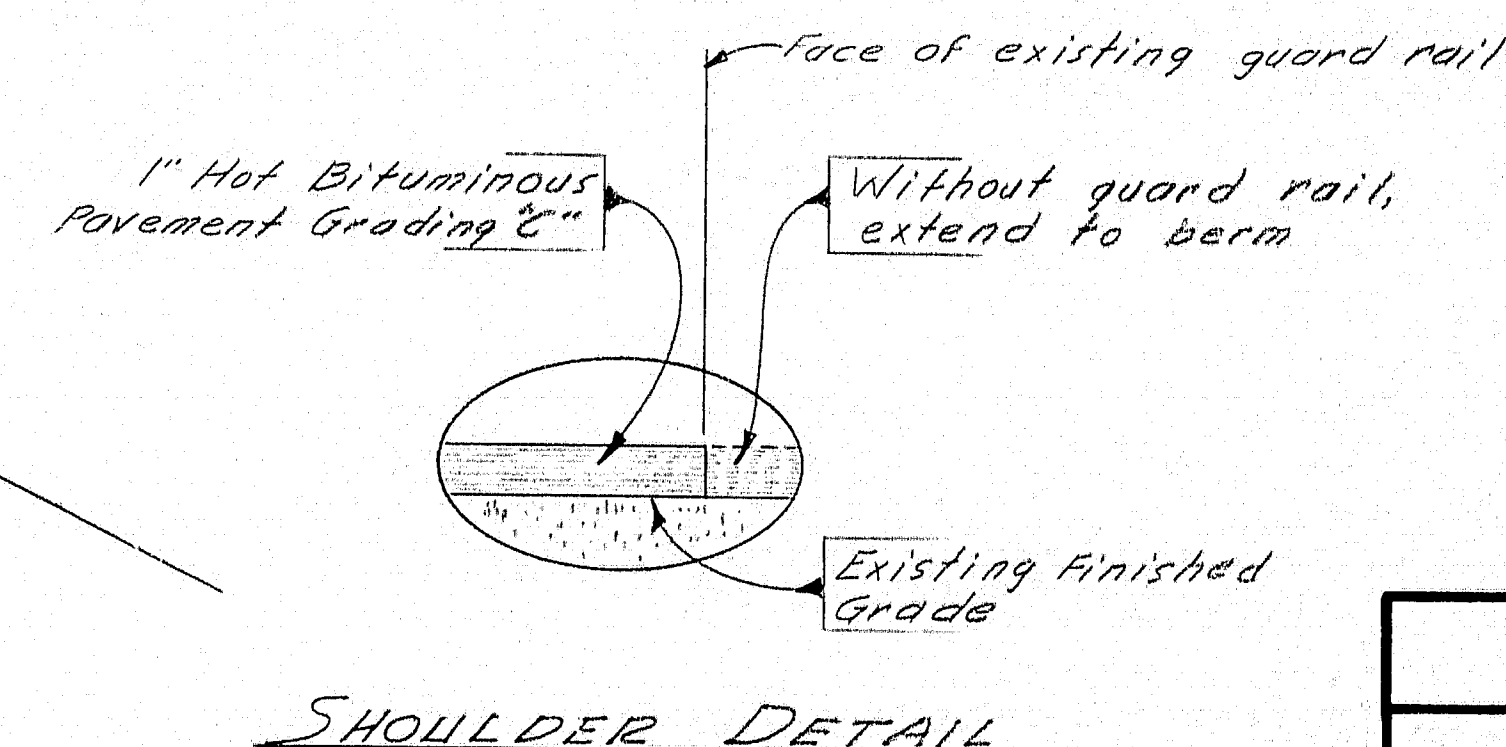
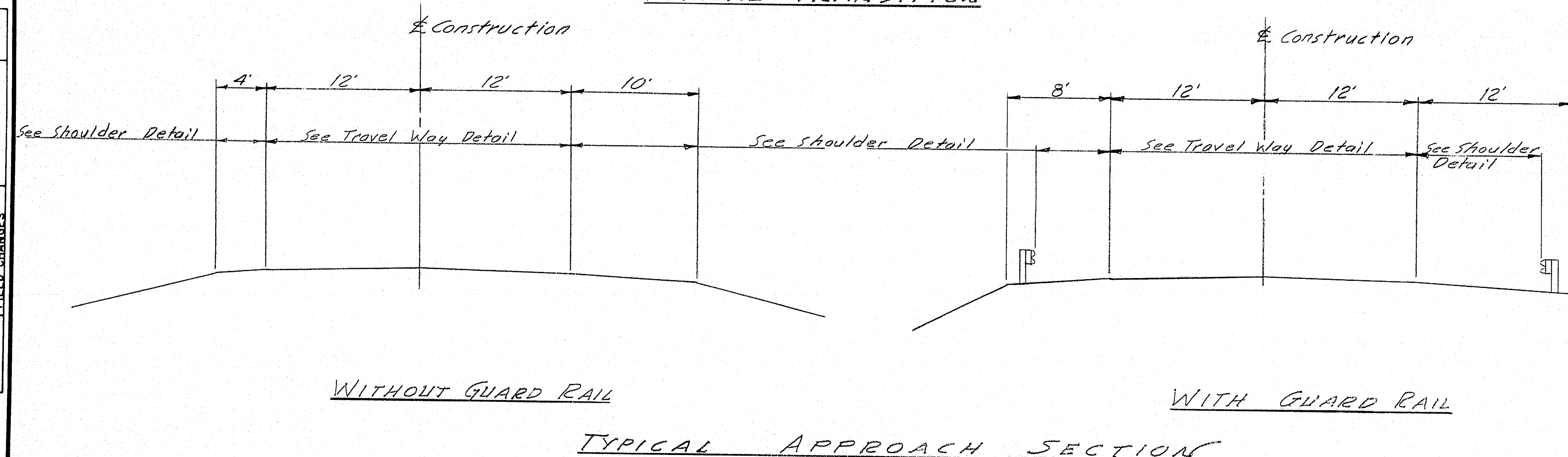
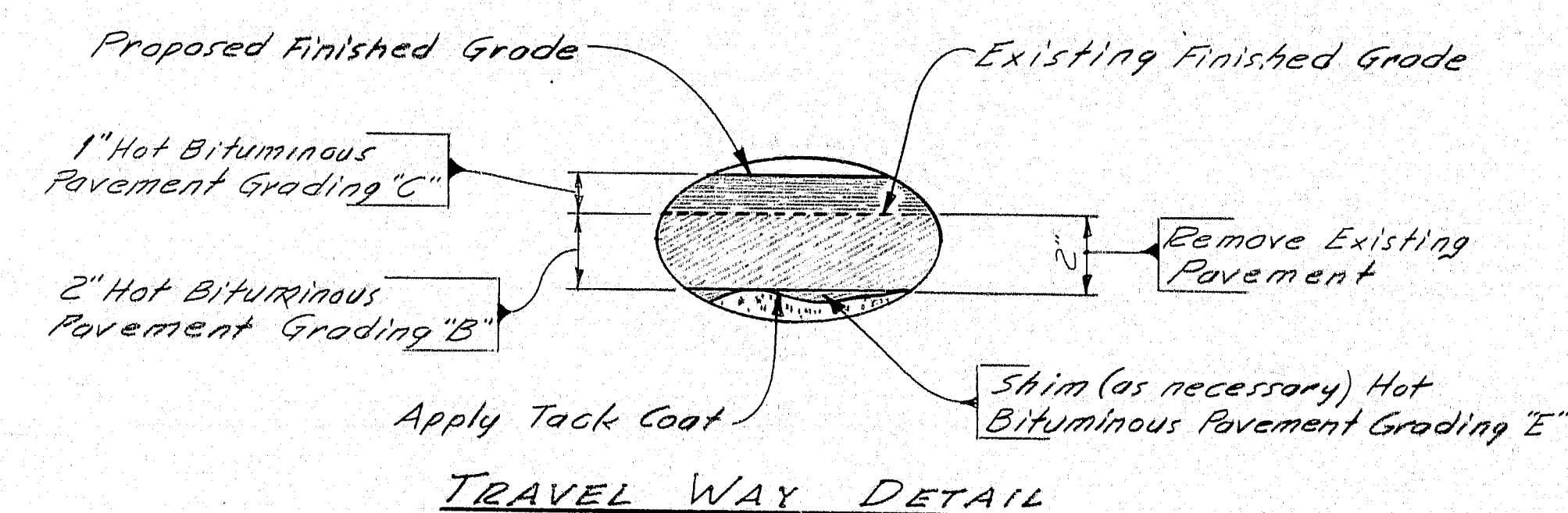
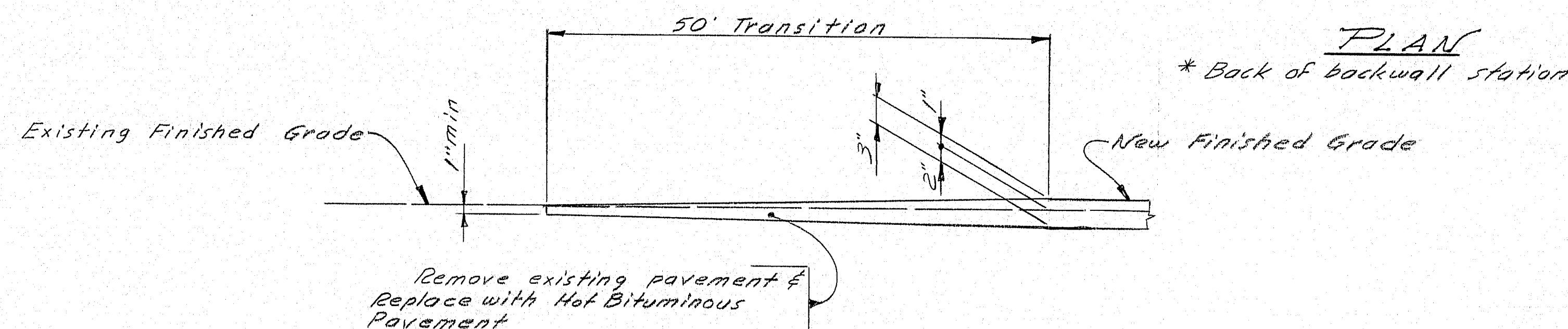
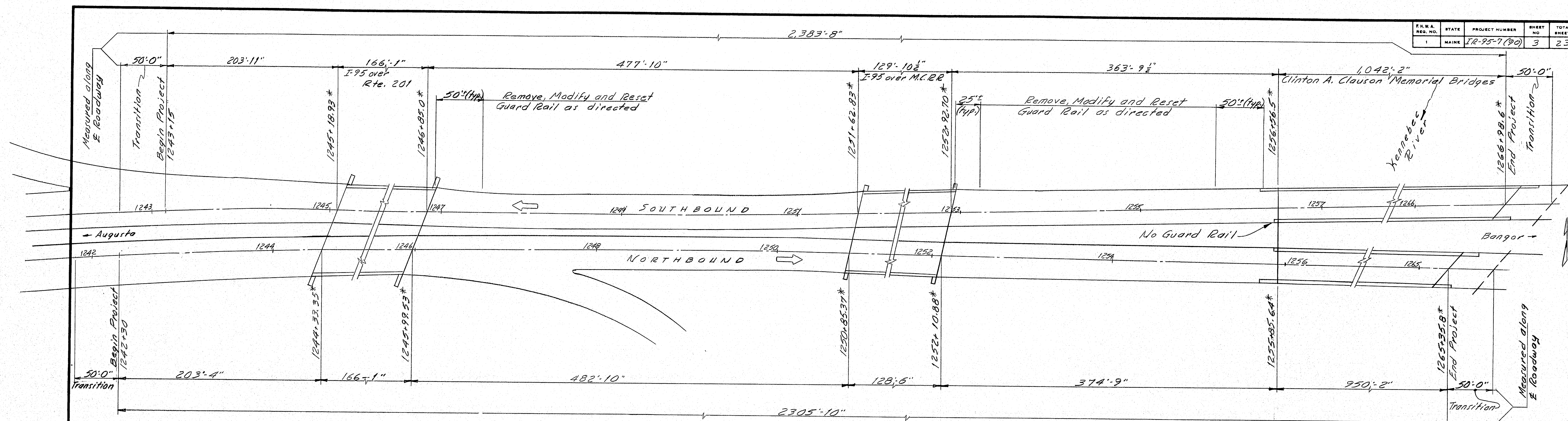
119-127

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
I-95 OVER ROUTE 201
I-95 OVER MAINE CENTRAL RAILROAD
CLINTON A. CLAUSON
MEMORIAL BRIDGES
IN THE TOWNS OF
FAIRFIELD & BENTON
KENNEBEC & SOMERSET COUNTIES
ESTIMATED QUANTITIES
CONSTRUCTION NOTES
SHEET 2 OF 23 AUGUSTA, MAINE

PROJECT DESIGN ENGINEER
DESIGN - DETAIL
CHECKED
REVISIONS
FIELD CHANGES
PLANS
DATE
1-97
2-97
BY
J.E.H.
B.M.D.

BRIDGE 44-132-5710-1

F.R.M.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	119-128	3	23



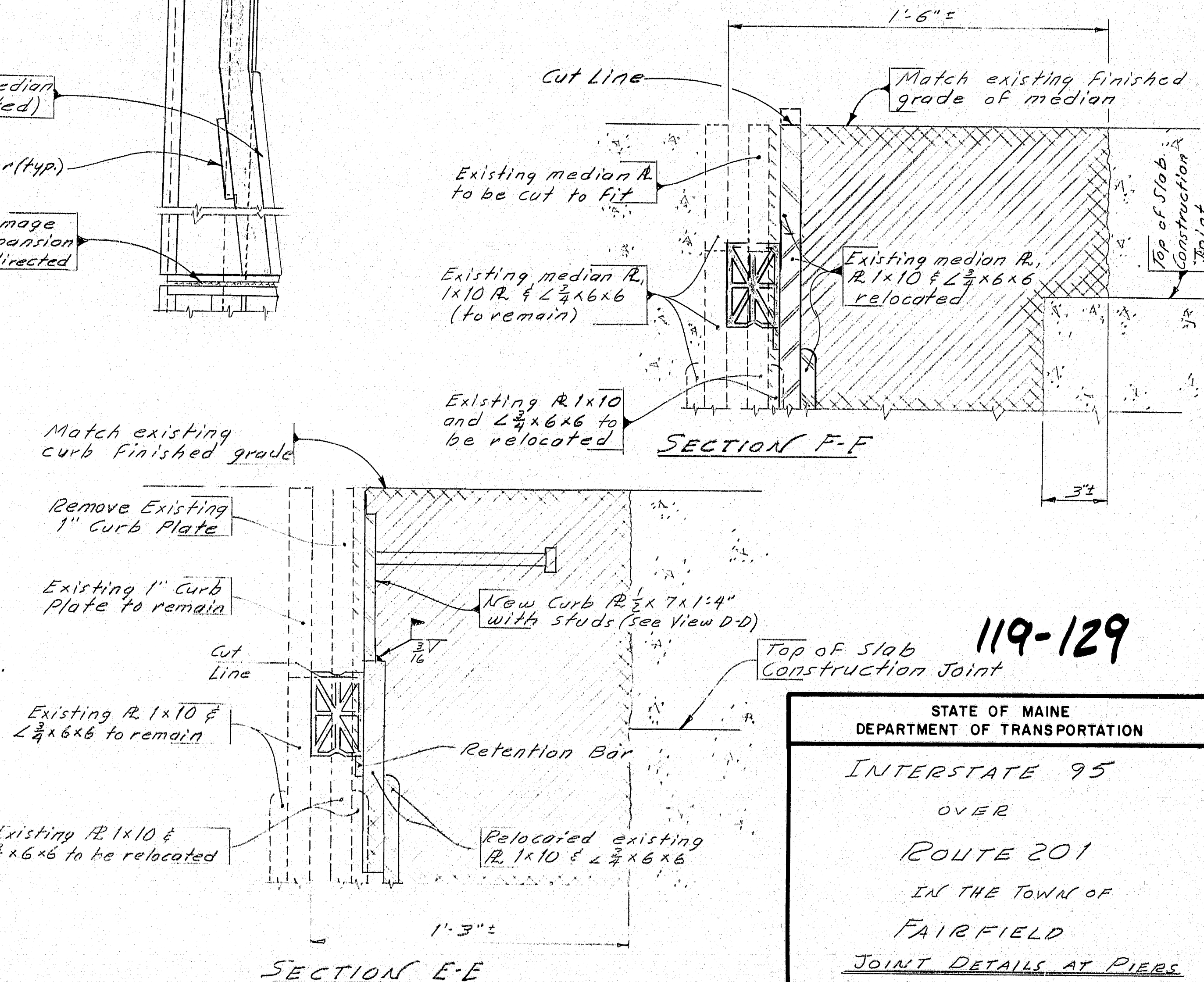
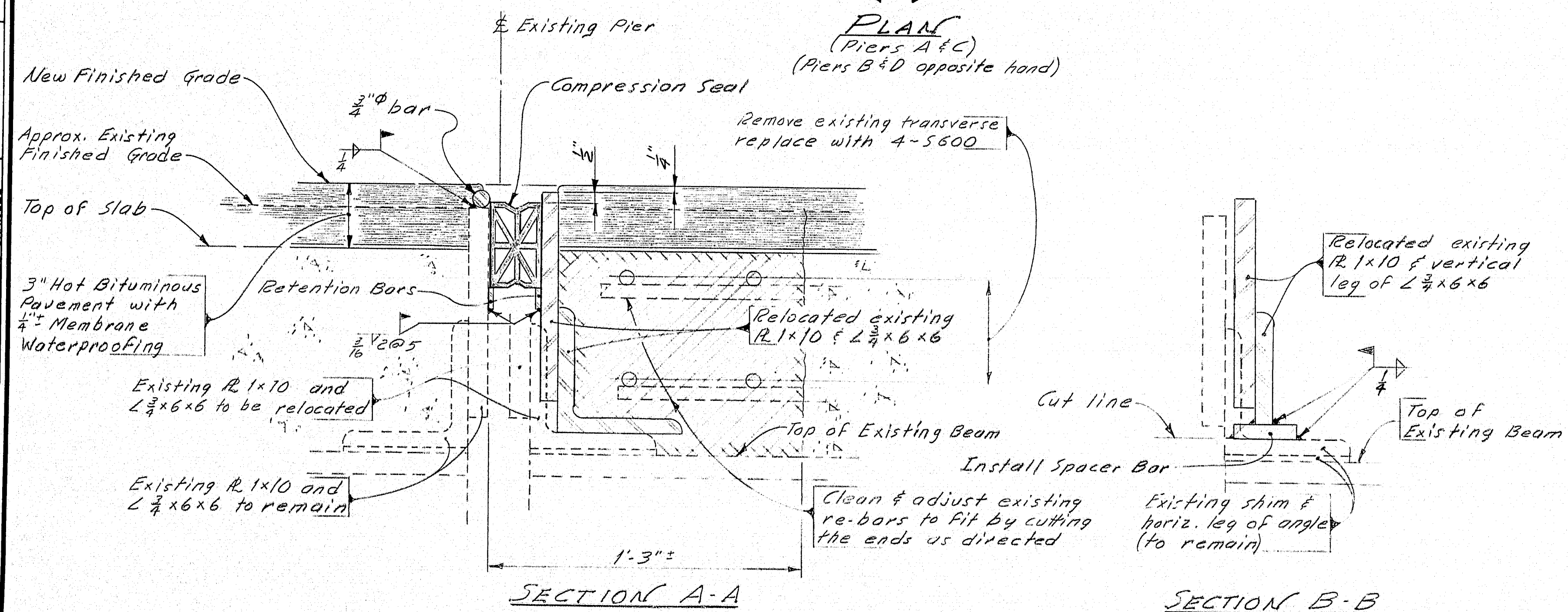
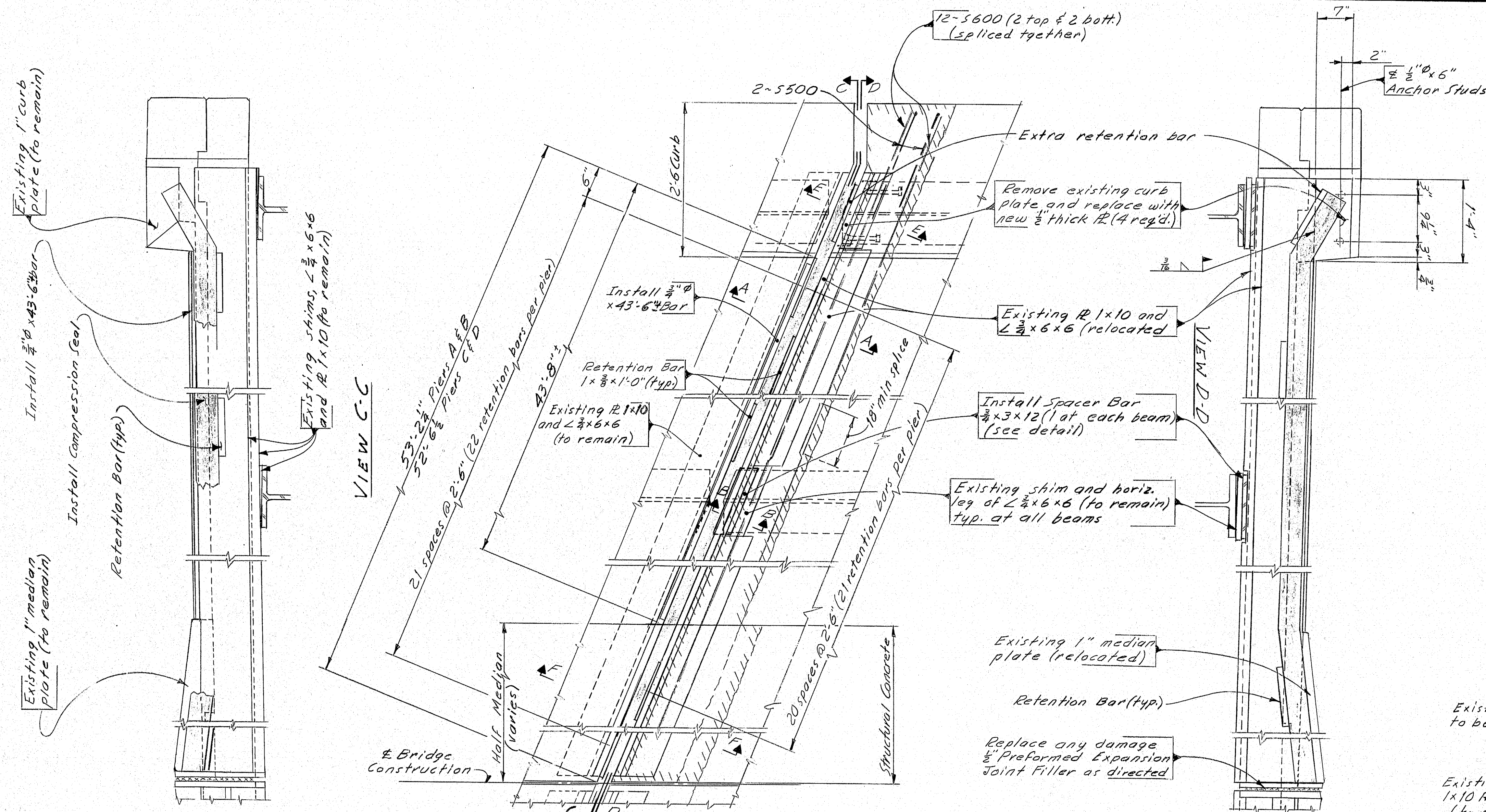
119-128

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 I-95 OVER RTE 201
 I-95 OVER MAINE CENTRAL RAILROAD
 CLINTON A. CLAUSON
 MEMORIAL BRIDGES
 IN THE TOWNS OF
 FAIRFIELD - BENTON
 APPROACHES
 SHEET 3 OF 23 AUGUSTA, MAINE

PROJECT DESIGN ENGINEER	DATE
BY: [Signature]	2-2-86
DESIGN - DETAILED	2-16-87
CHECKED	
REVISIONS	
FIELD CHANGES	

BRUNING 44-122-45710-1

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1	MAINE	IR-95-7 (80)	4	23



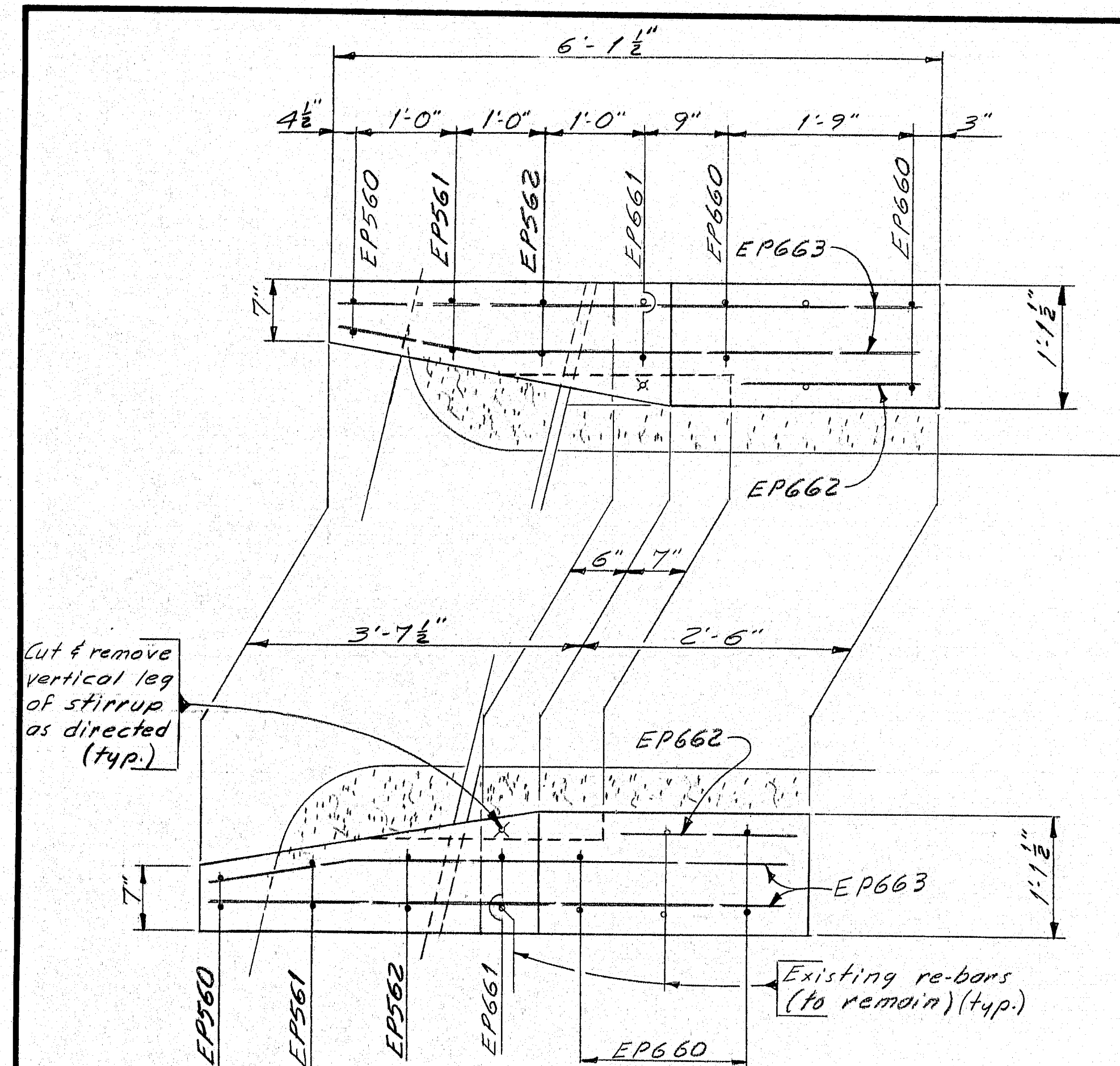
119-129

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
INTERSTATE 95
OVER
ROUTE 201
IN THE TOWN OF
FAIRFIELD
JOINT DETAILS AT PIERS
SHEET 4 OF 23 AUGUSTA, MAINE

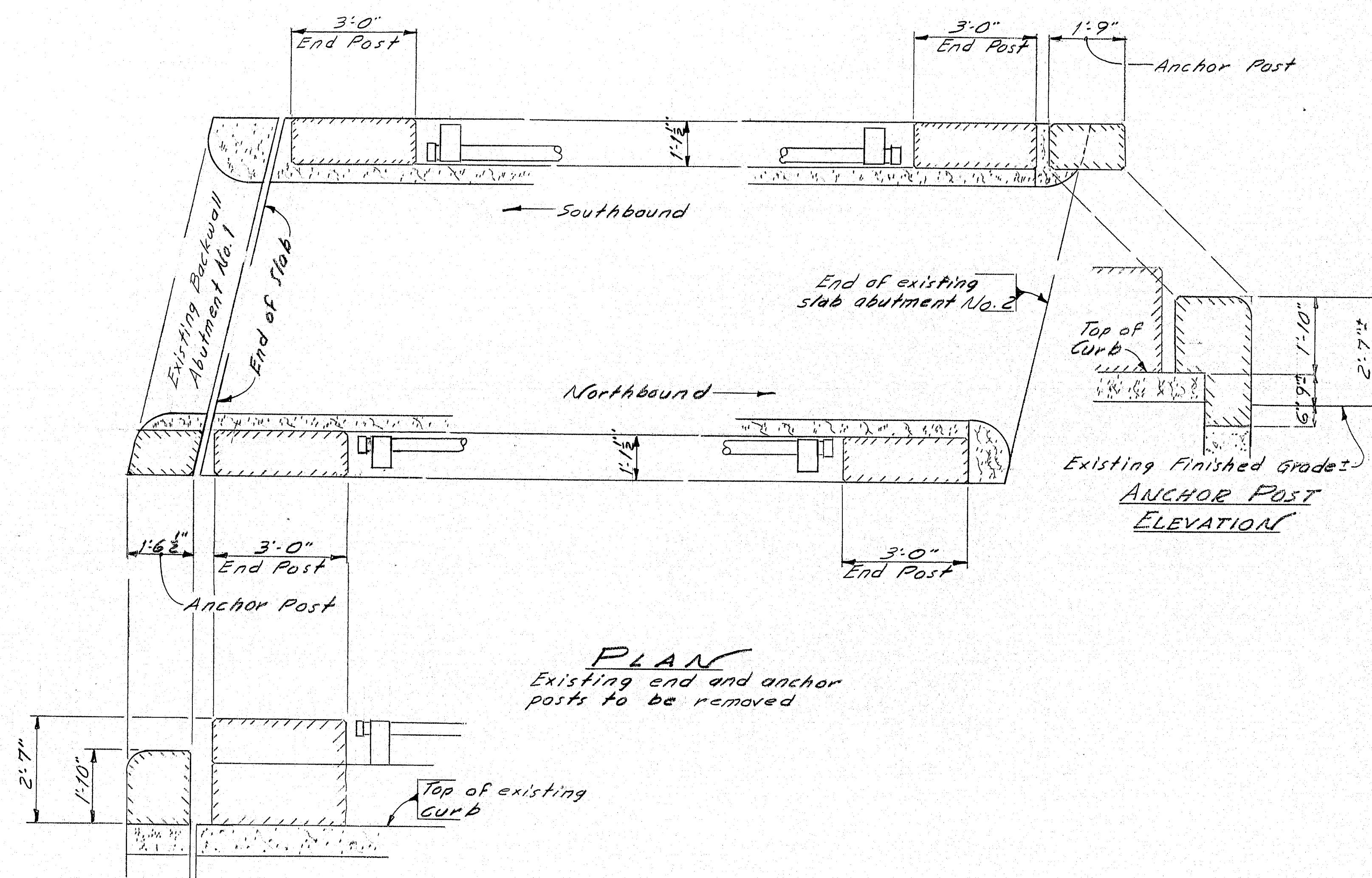
PROJECT DESIGN ENGINEER	DATE
DESIGN - DETAILED	7-96
CHECKED	2-97
REVISIONS	
FIELD CHANGES	
PLANS	

BRUNING 44 132 457/051

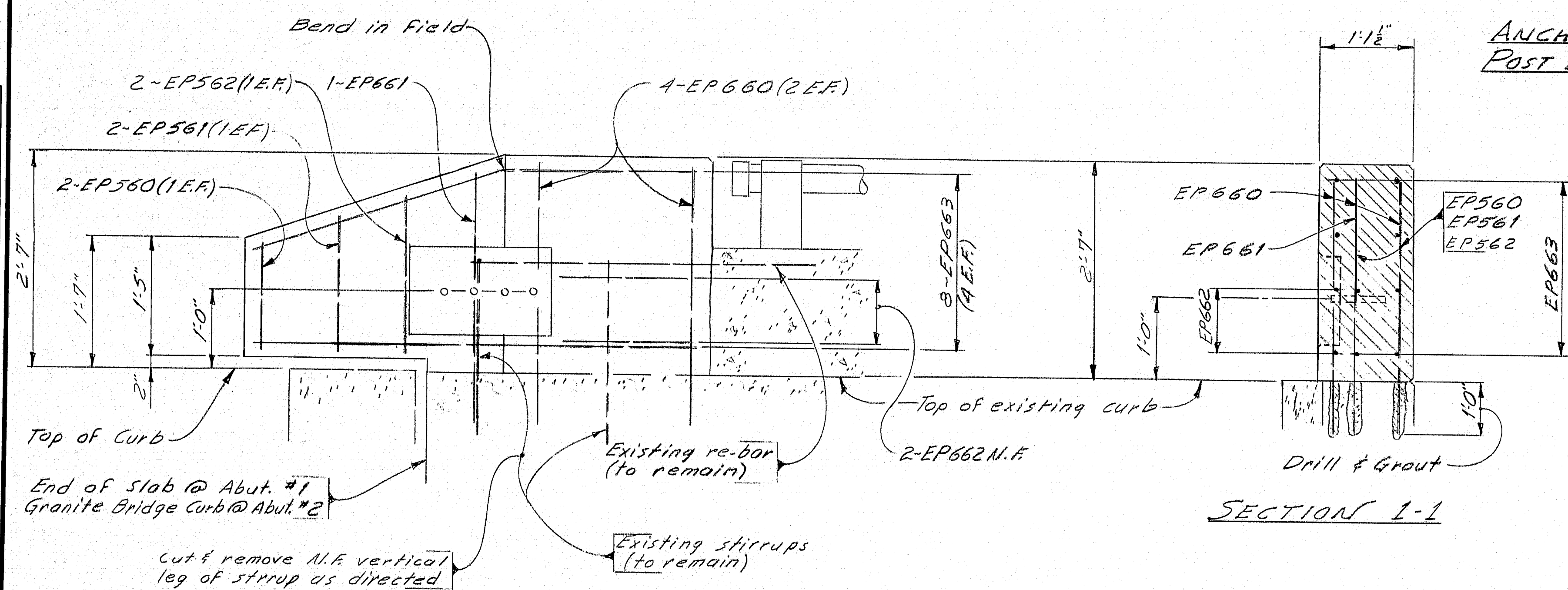
F.A.R.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1E-95-7(90)	7	23



PLAN
Abutment No. 1 shown
Abutment No. 2 similar



PLAN
Existing end and anchor
posts to be removed



ELEVATION

**ANCHOR & END
POST ELEVATION**

SECTION 1-1

119-132

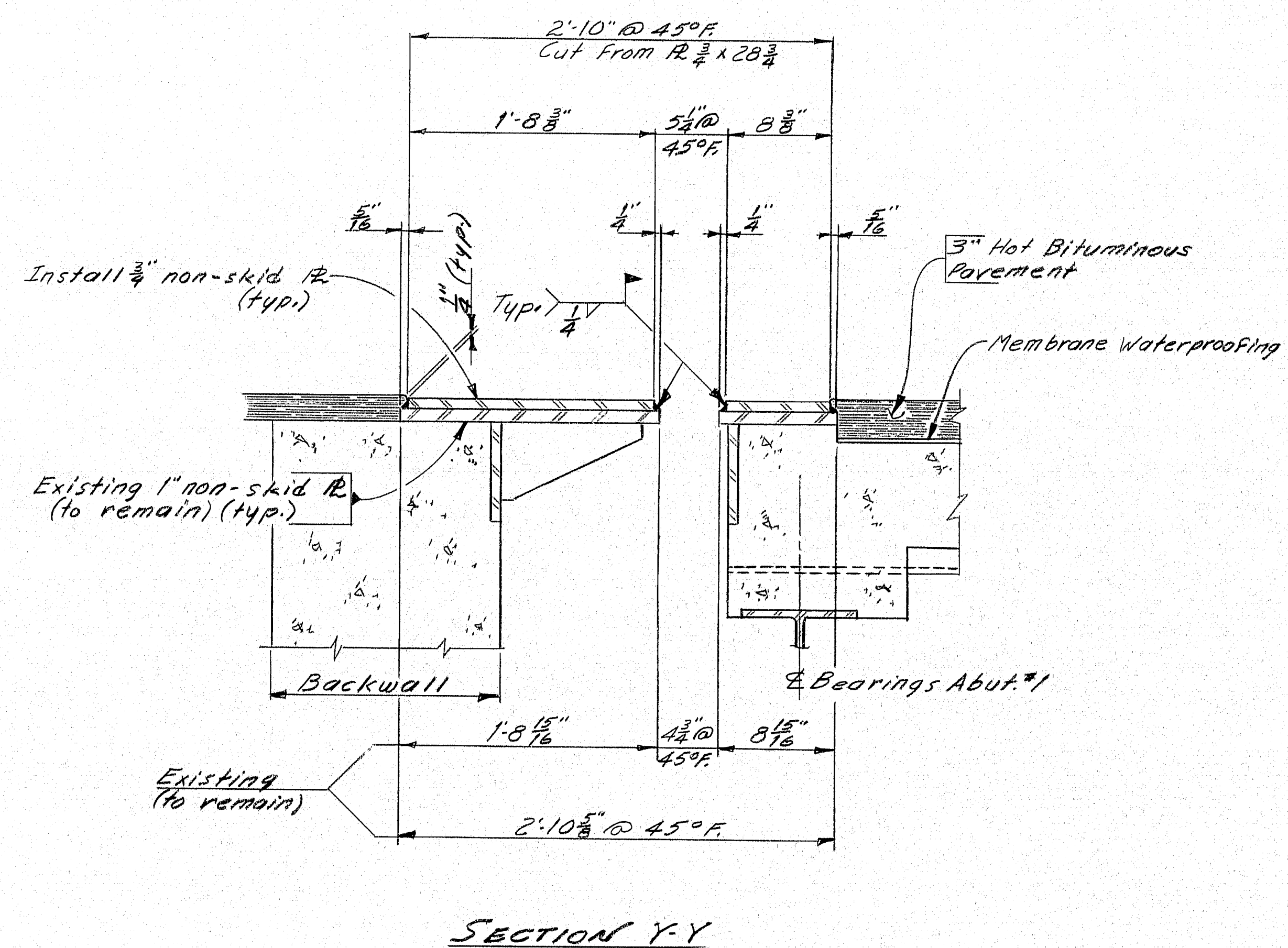
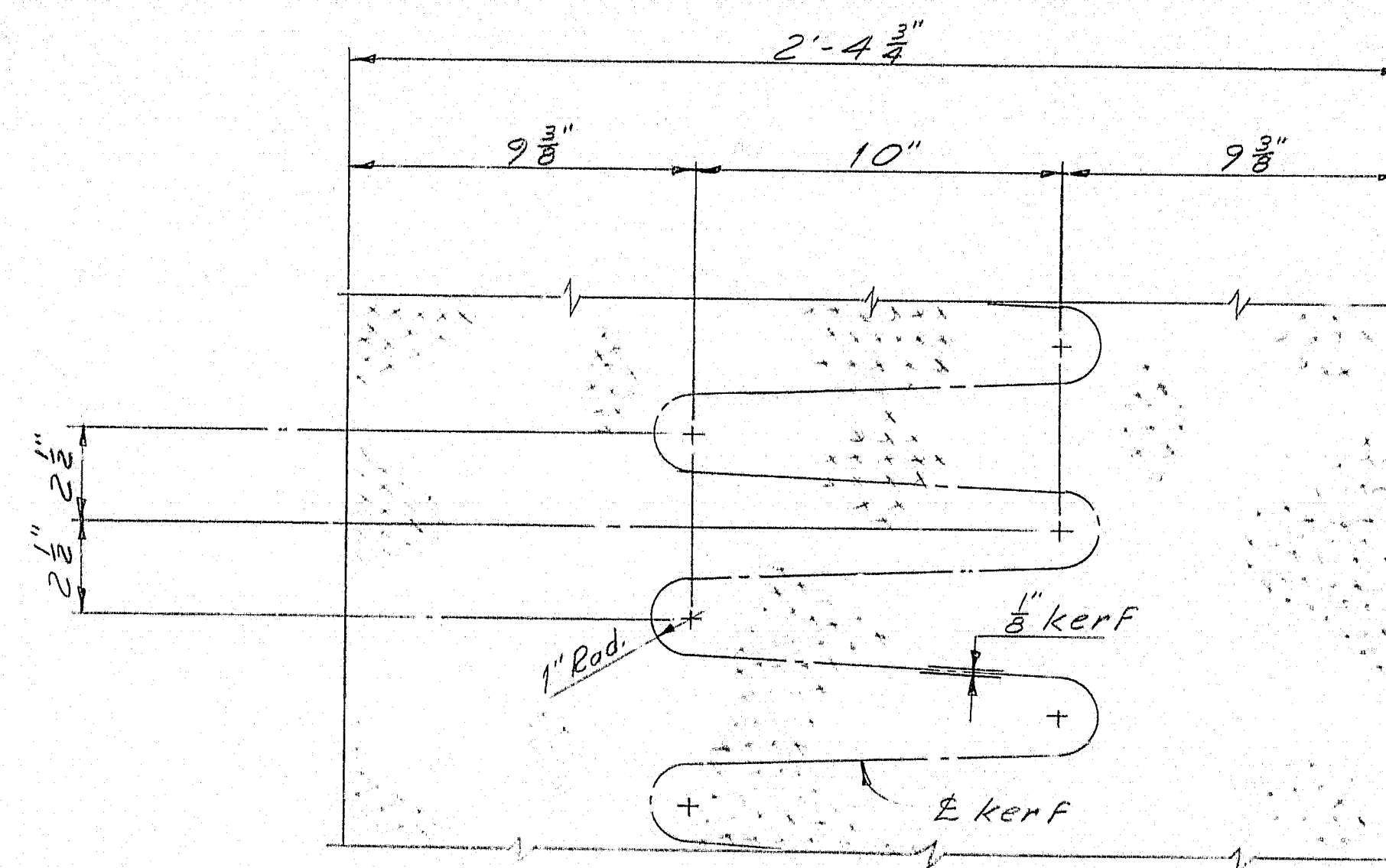
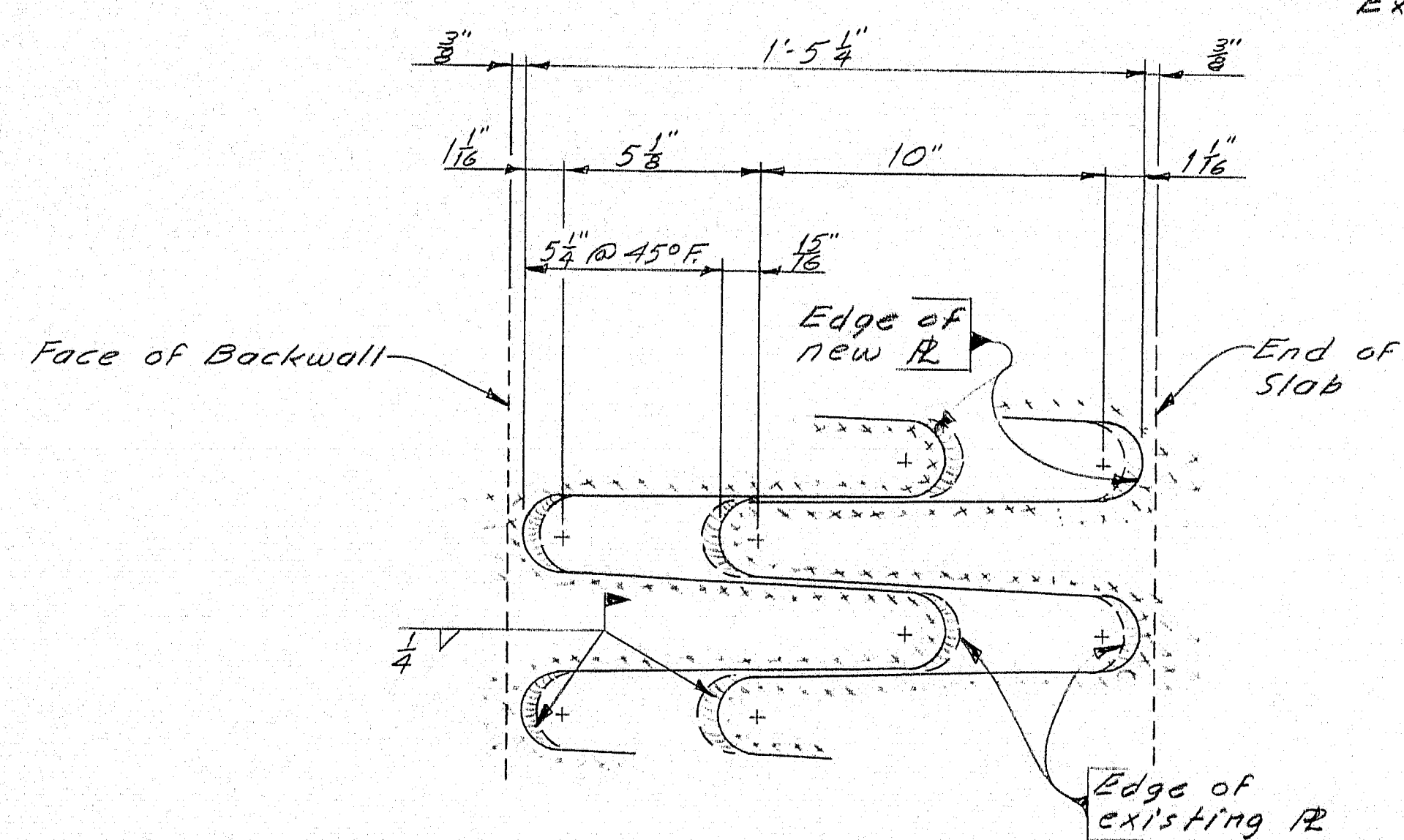
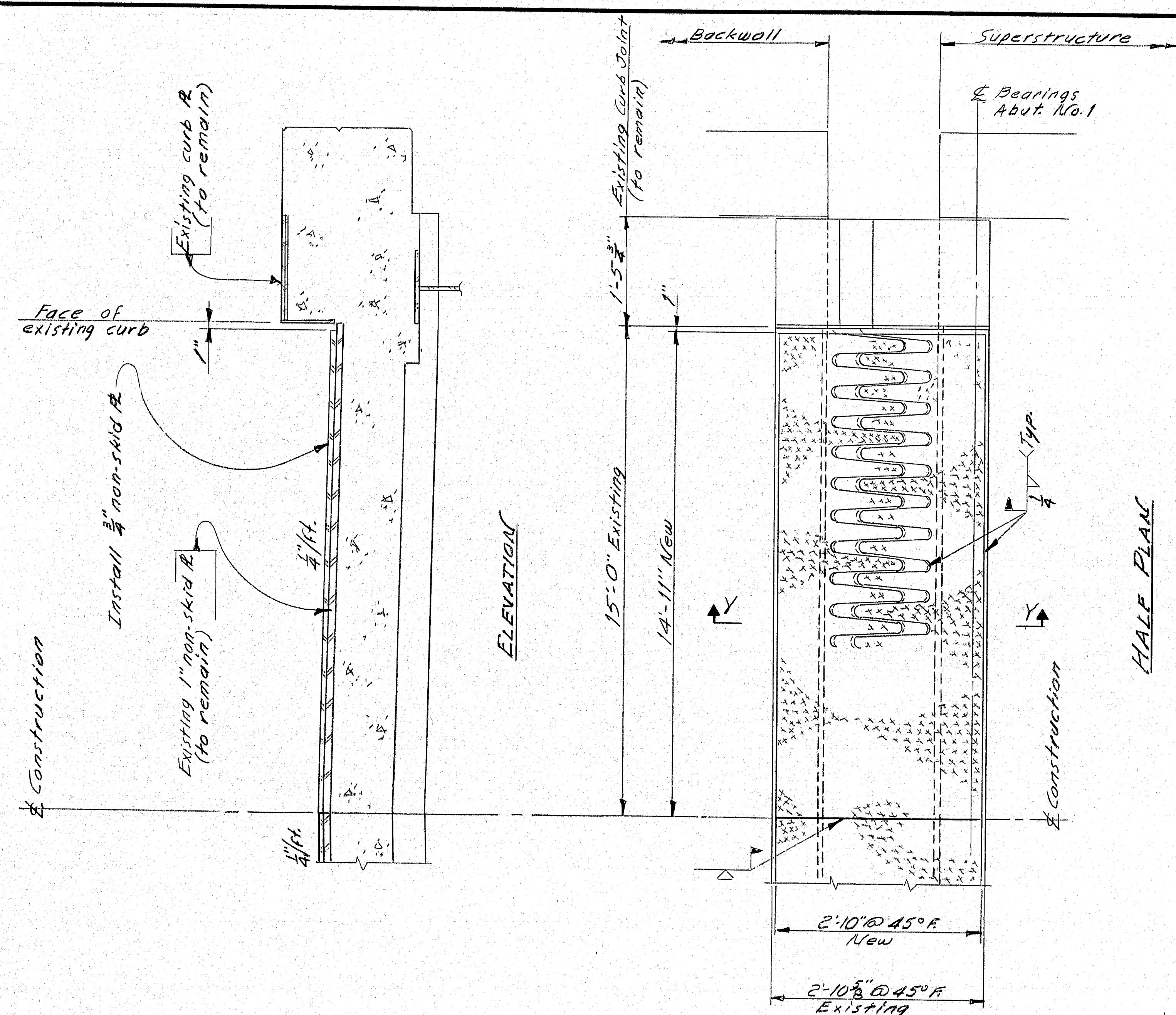
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End Post Sheet BD 120-81

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

**INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
END POST DETAILS**

PROJECT DESIGN ENGINEER	BY	DATE
DESIGNED & DETAILLED	BY	DATE
CHECKED	BY	DATE
REVISIONS		
FIELD CHANGES		
PLANS		

BRUNING 44132-45710-1

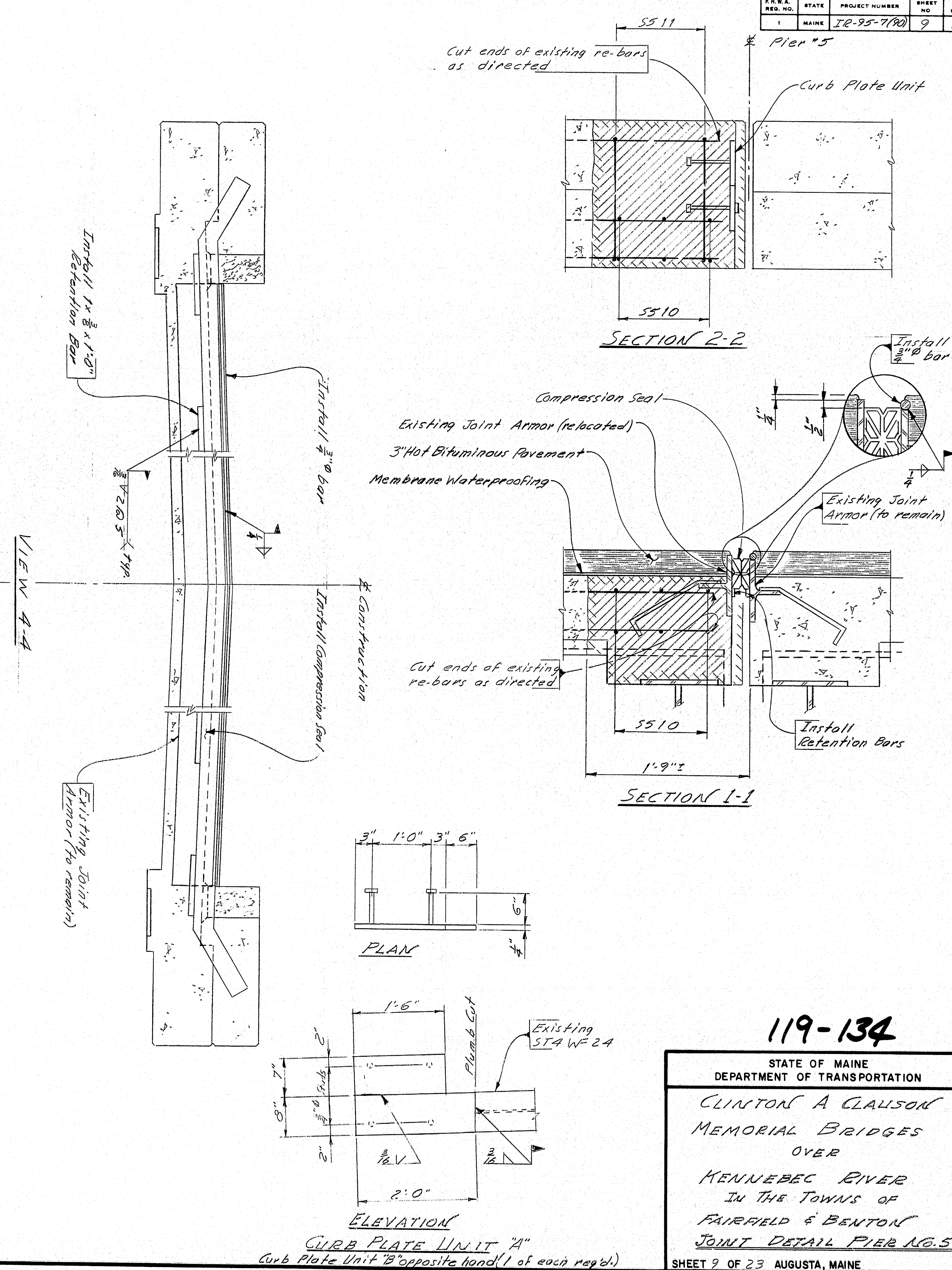
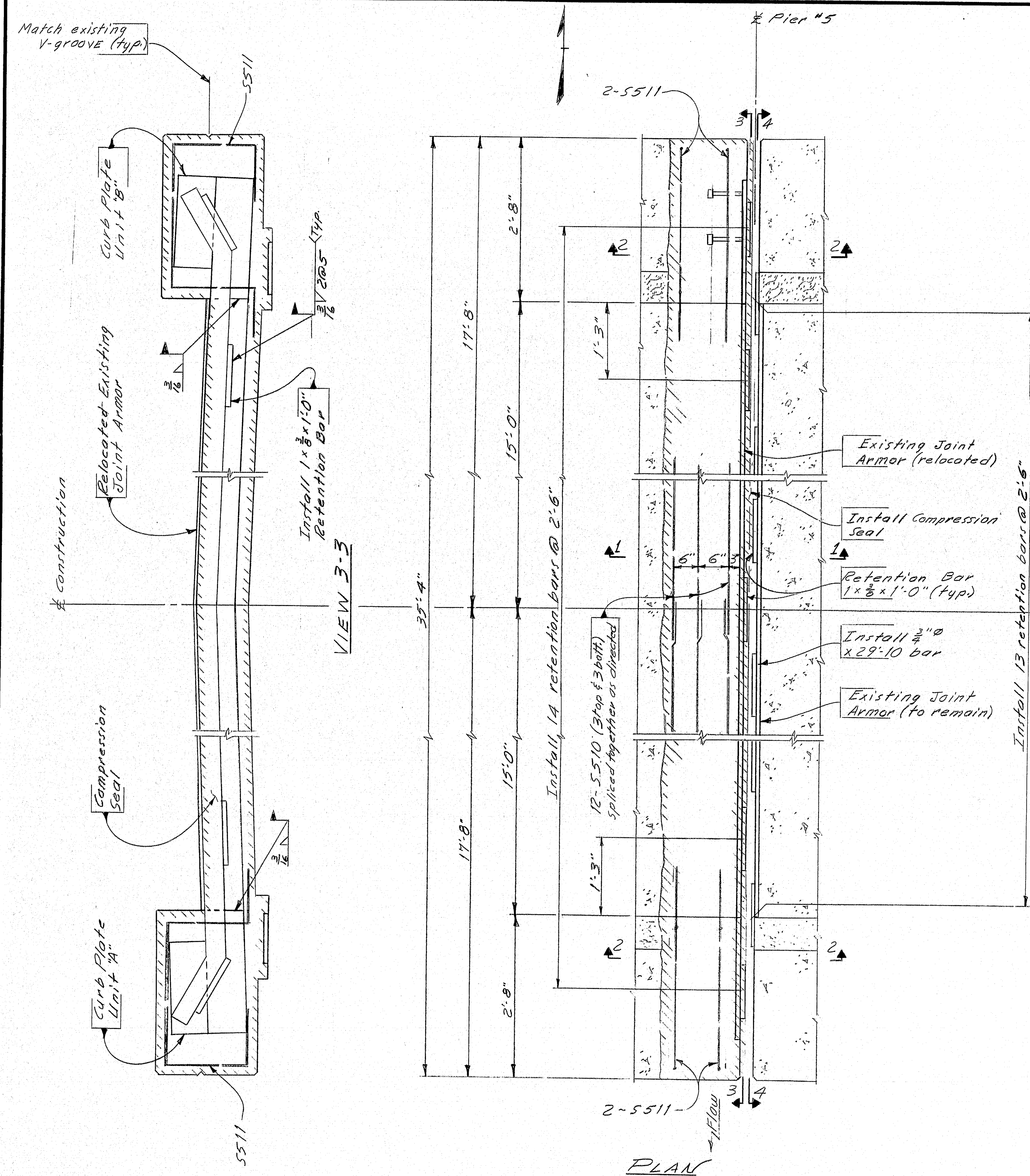


STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
MAINE	12-95-7(90)	8	23

119-133

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWN OF
FAIRFIELD & BENTON
ABUTMENT NO. 1 N.B. & S.B.
MODIFIED FINGER JOINTS
SHEET 8 OF 23 AUGUSTA, MAINE

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-7(90)	9	23



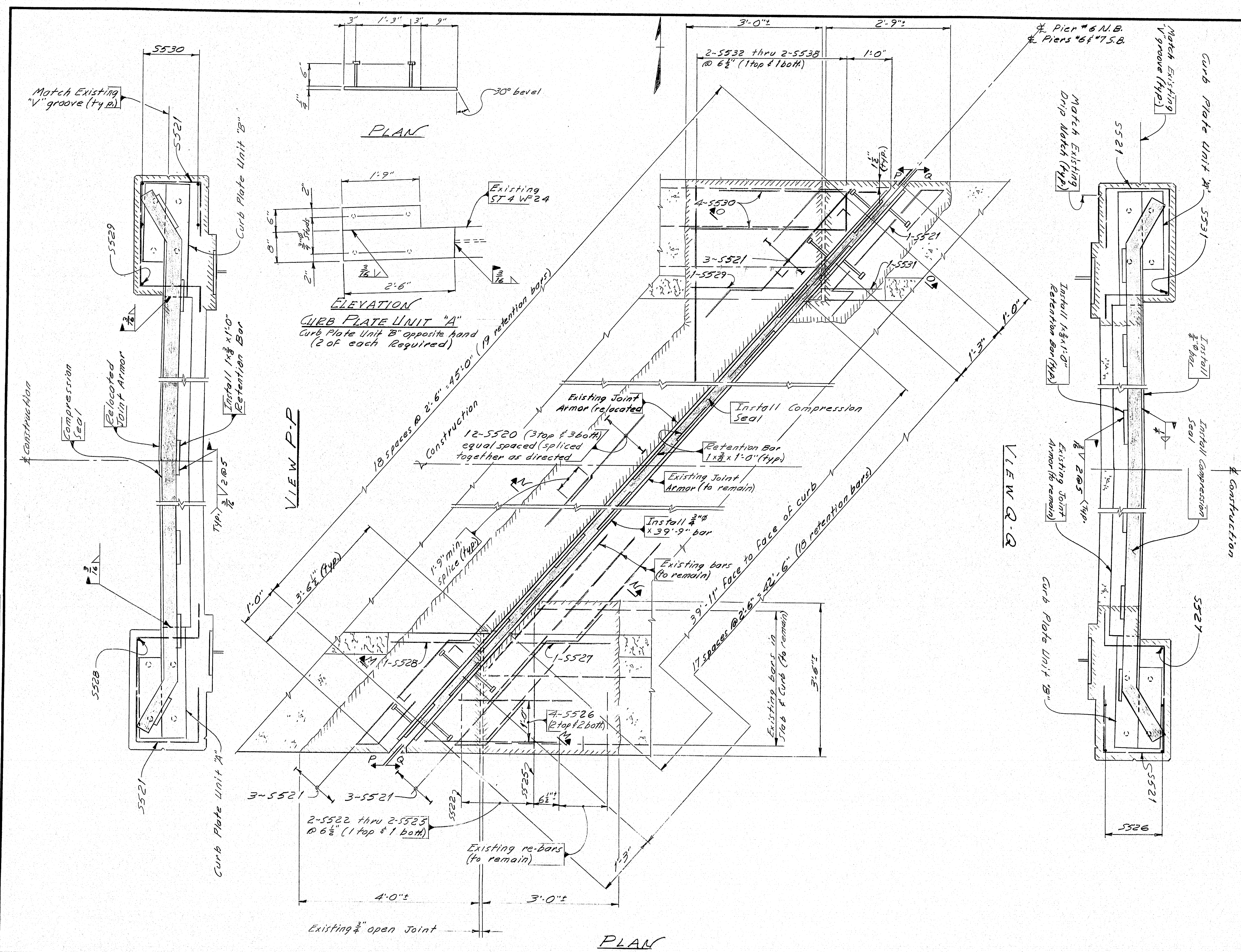
119-134

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD & BENTON
JOINT DETAIL PIER NO.5

SHEET 9 OF 23 AUGUSTA, MAINE

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEET
1	MAINE	IR-95-7(90)	10	23



PROJECT DESIGN ENGINEER	BY	DATE
	DESIGN - DETAILED CHECKED REVISED	R.T.A. JMD 2-13-87

119-135

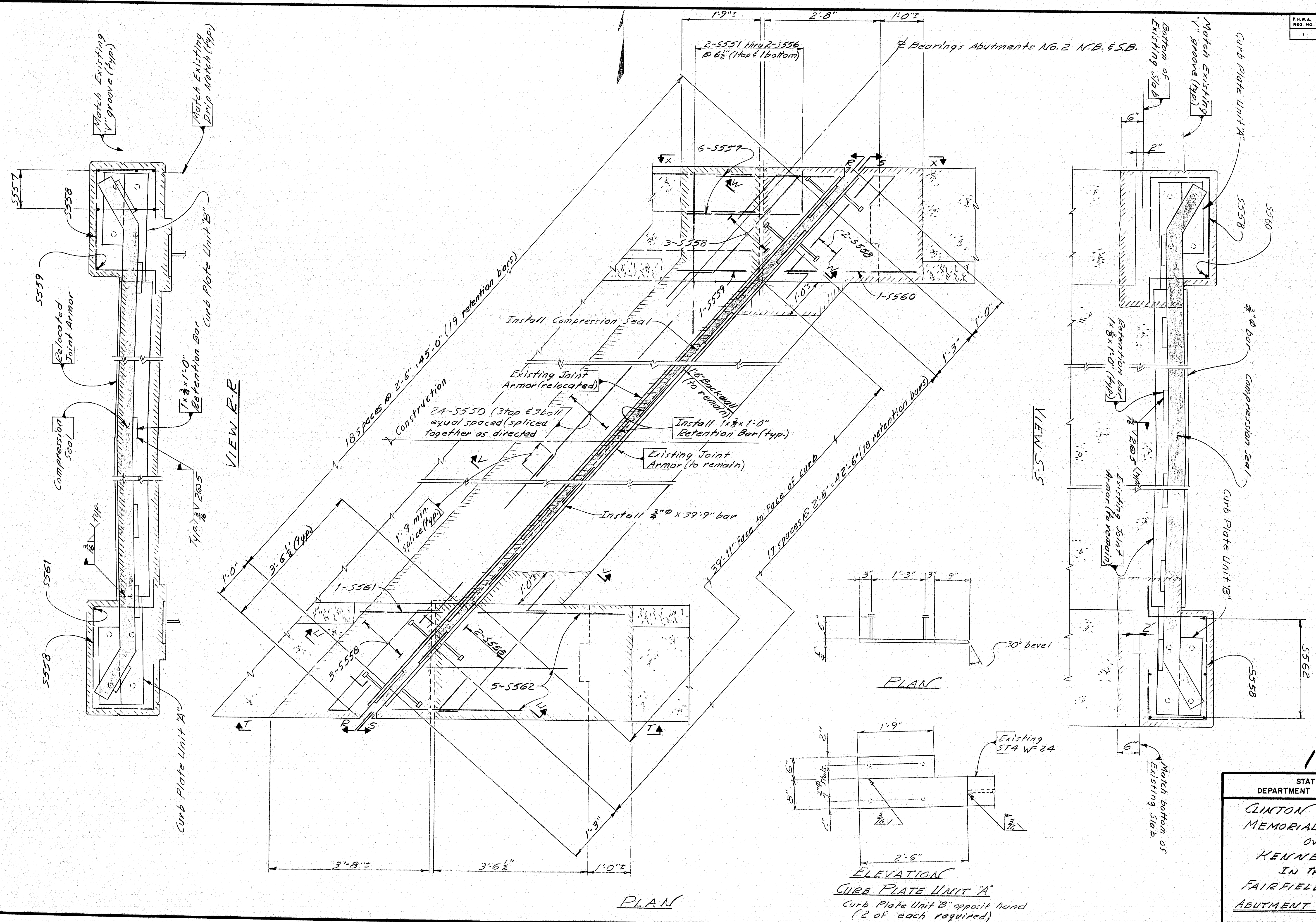
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD & BENTON
PIER NO. 6 N.B.
PIERS NO. 6 & 7 S.B.

SHEET 10 OF 23 AUGUSTA, MAINE

F.W.A.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	119-136-7(20)	11	23

PROJECT DESIGN ENGINEER	DATE
BY E.T.A.	9-86
DESIGN - CHECKED	2-13-87
REVISIONS	
FIELD CHANGES	



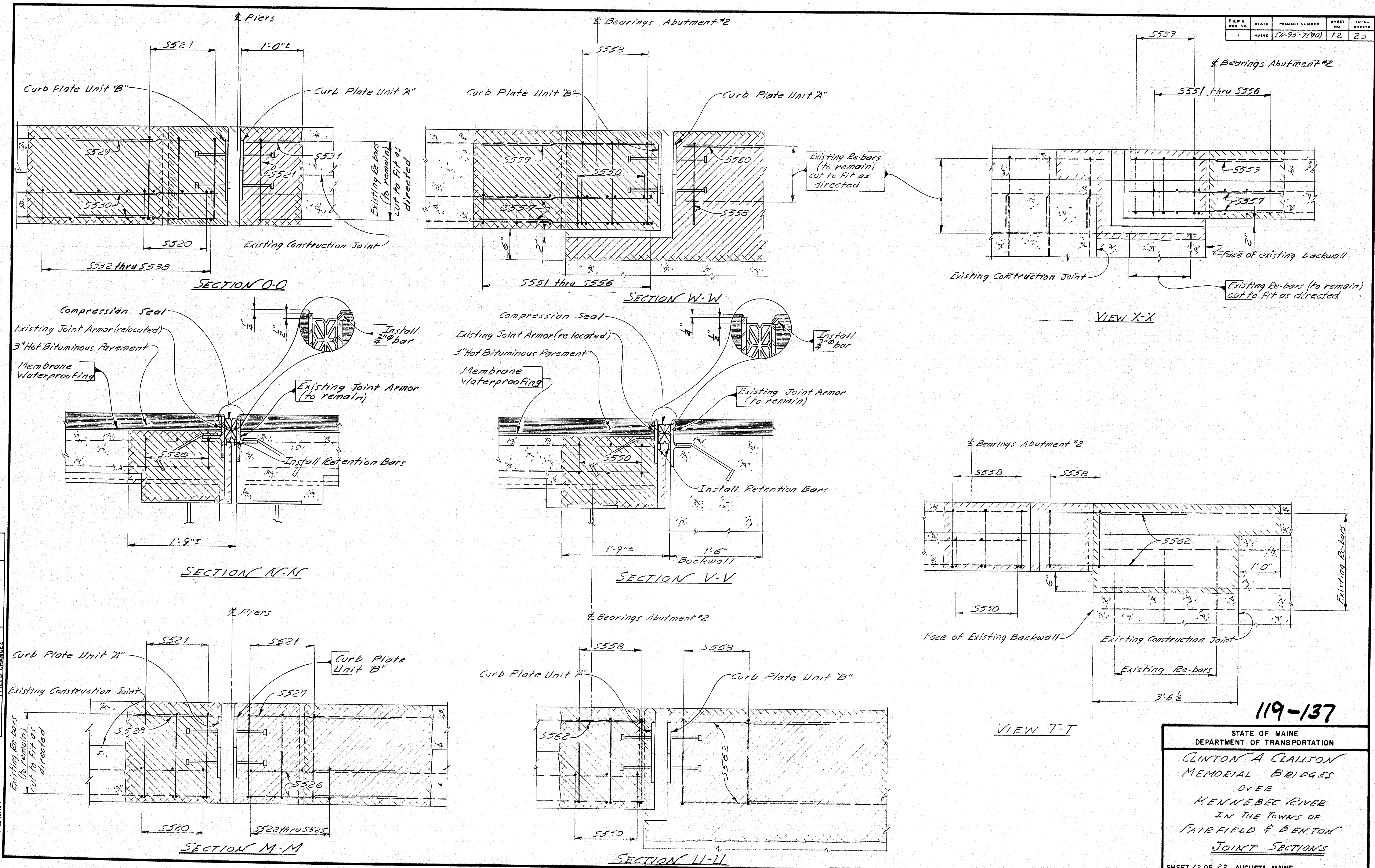
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD & BENTON
ABUTMENT NO. 2 N.B. & S.B.

SHEET 11 OF 23 AUGUSTA, MAINE

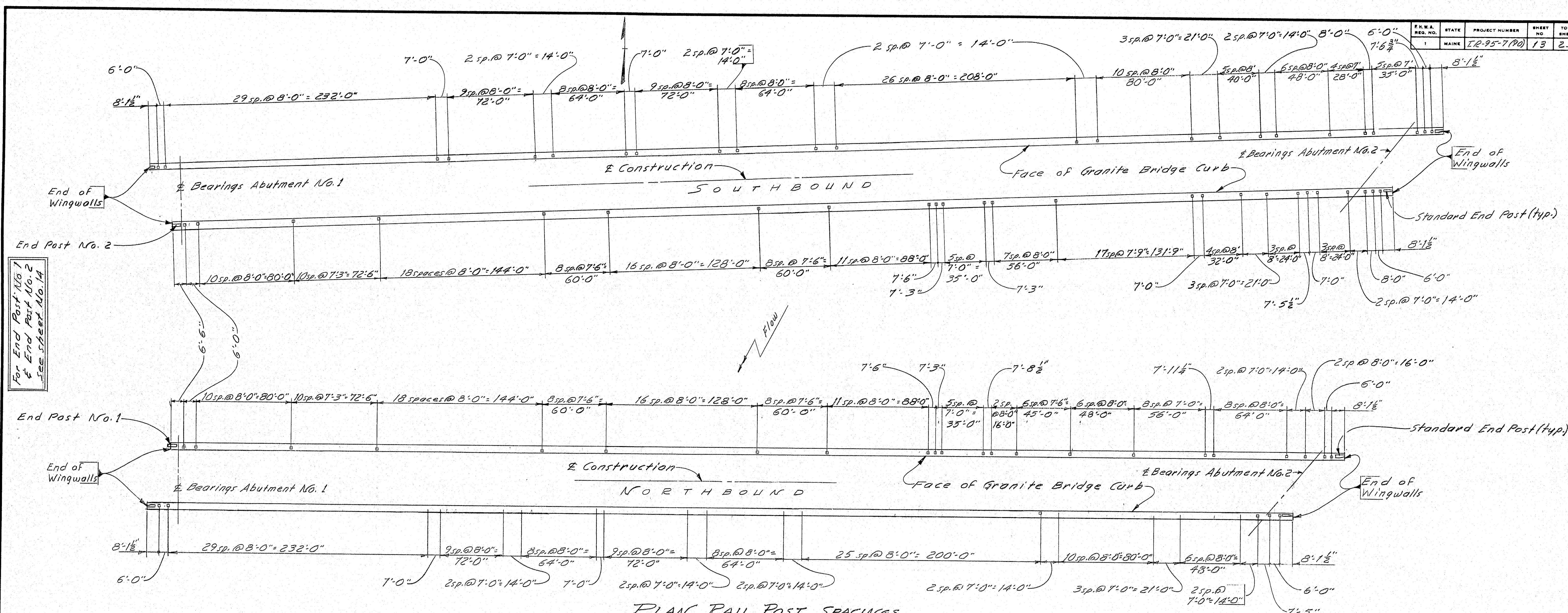
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BY: BJA	8/23/87
DESIGN DETAIL	CHECKED
PLANS	REVISED
FIELD CHANGES	



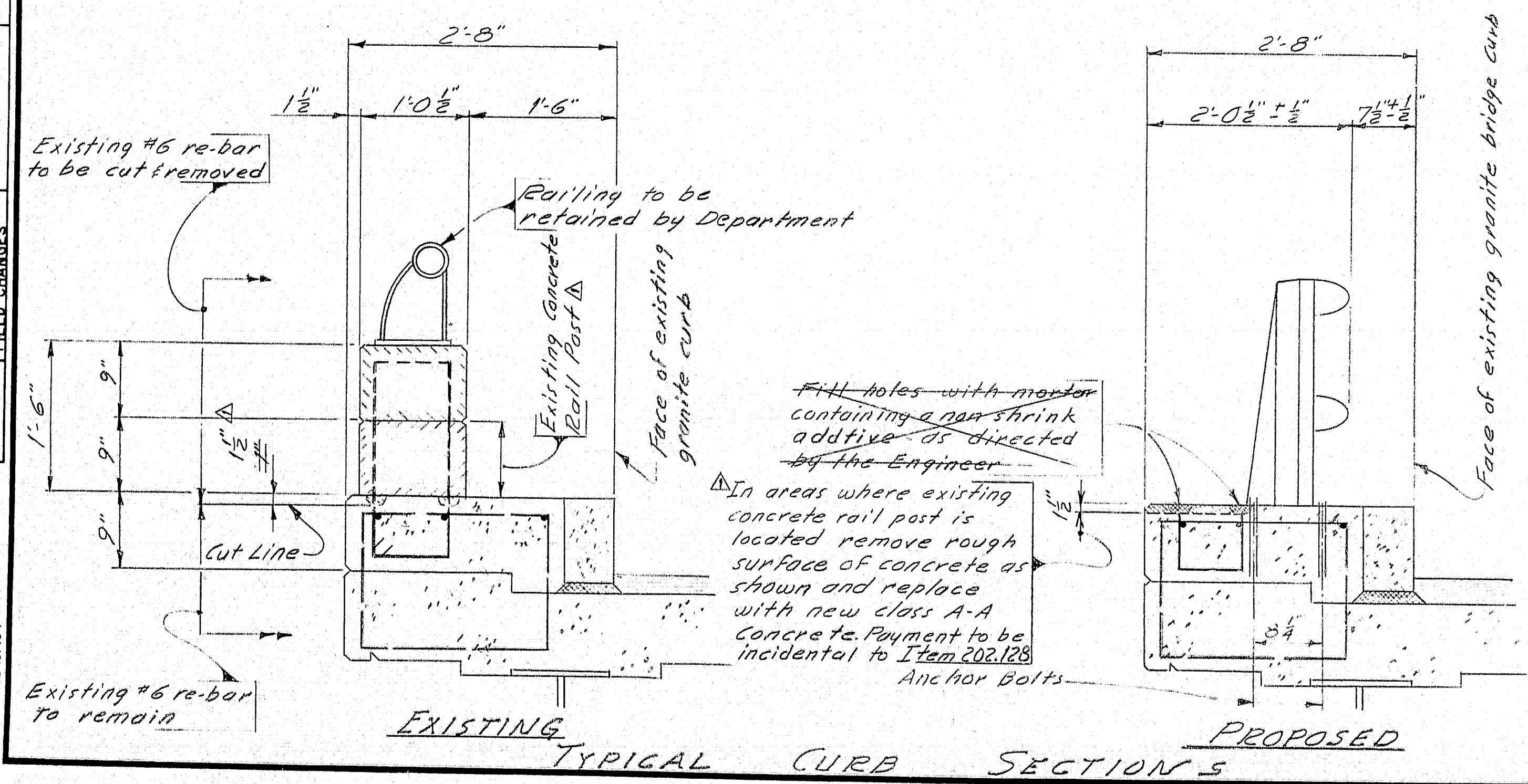
119-137

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 CLINTON A. CLALSON
 MEMORIAL BRIDGES
 OVER
 KENNEBEC RIVER
 IN THE TOWNS OF
 FAIRFIELD & BENTON
 JOINT SECTIONS
 SHEET 12 OF 23 AUGUSTA, MAINE

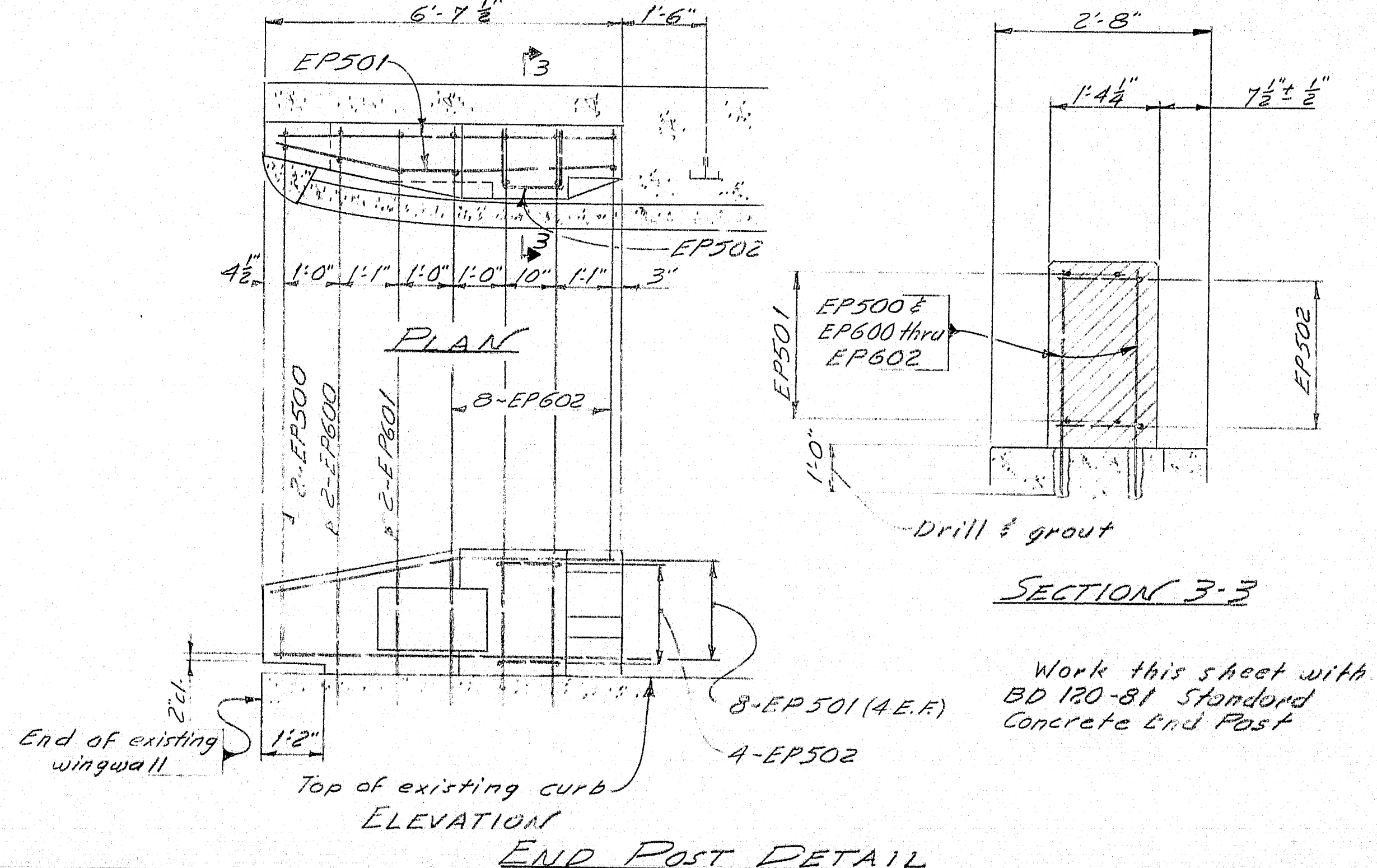
PROJECT NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	119-138	13	23



PLAN RAIL POST SPACINGS



EXISTING TYPICAL CURB SECTION & PROPOSED



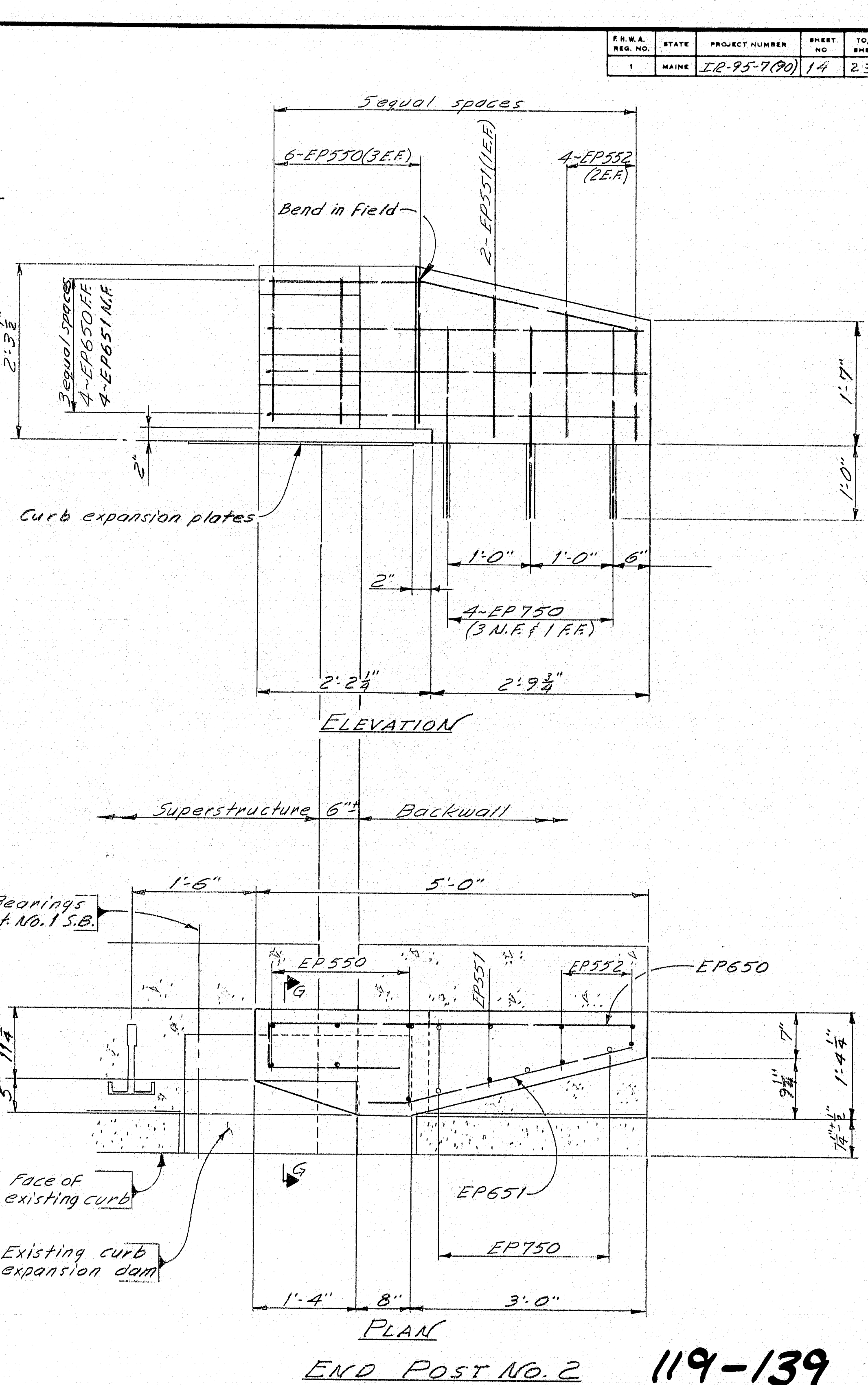
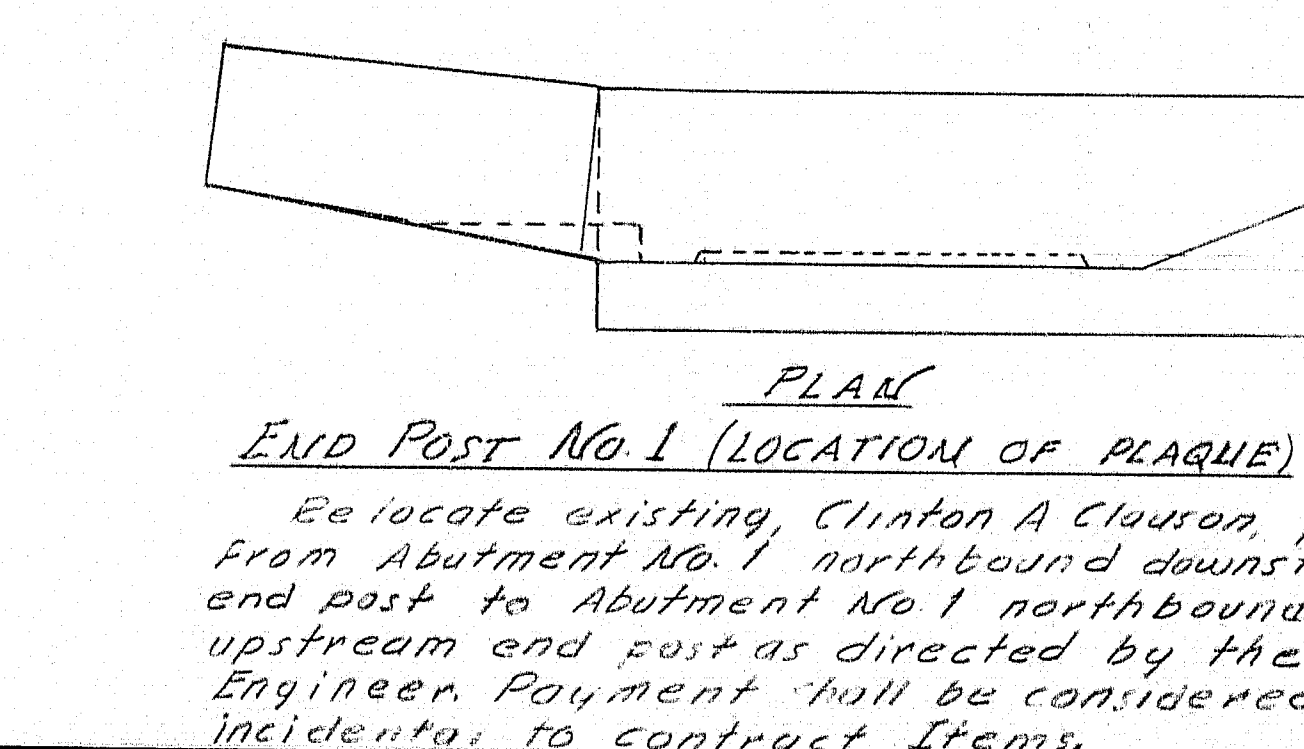
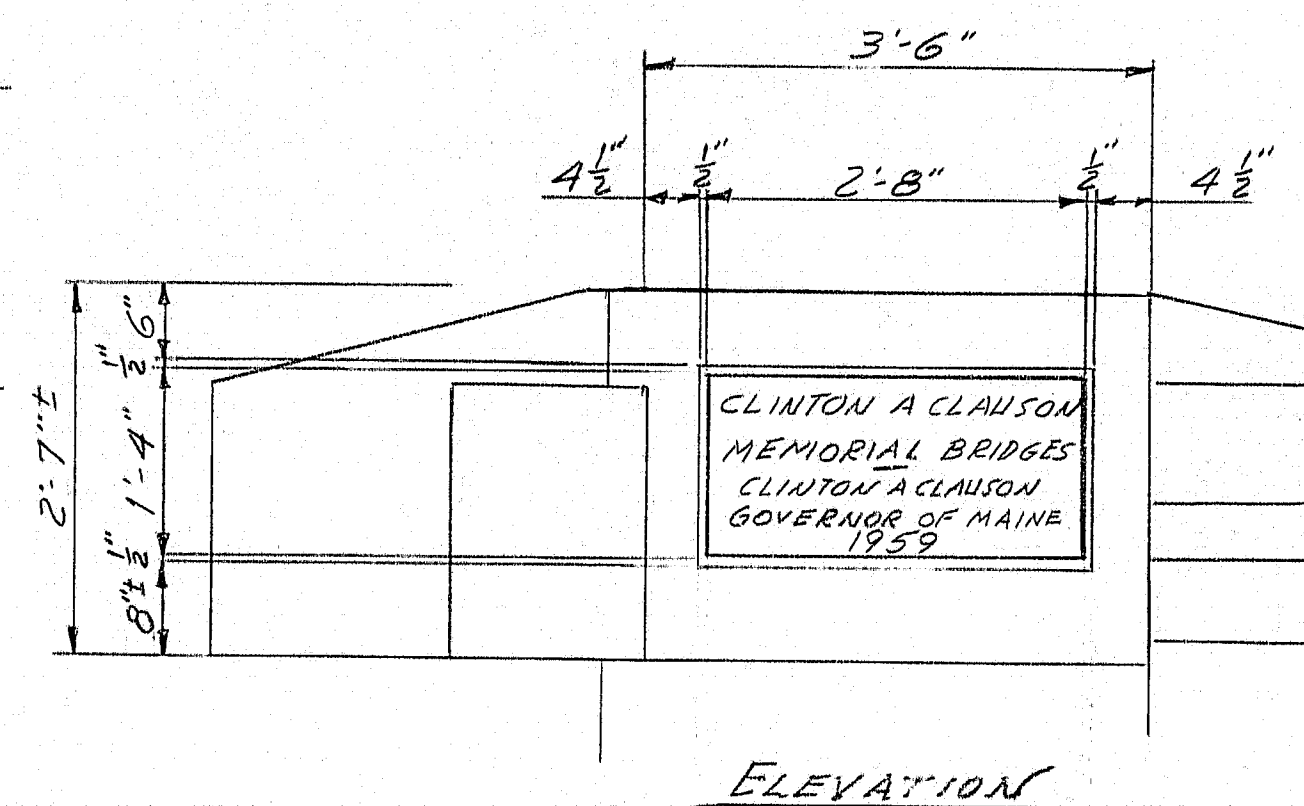
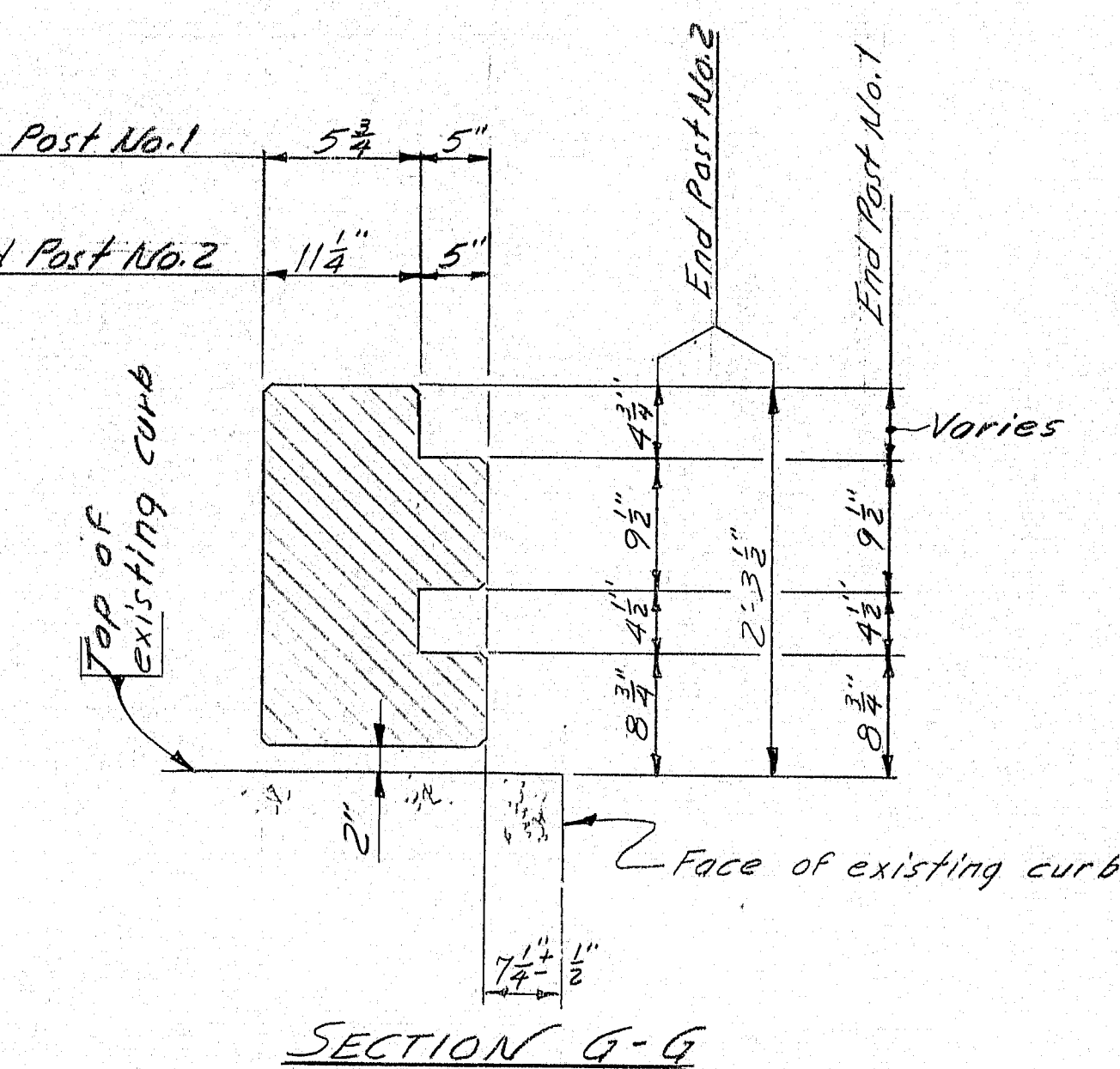
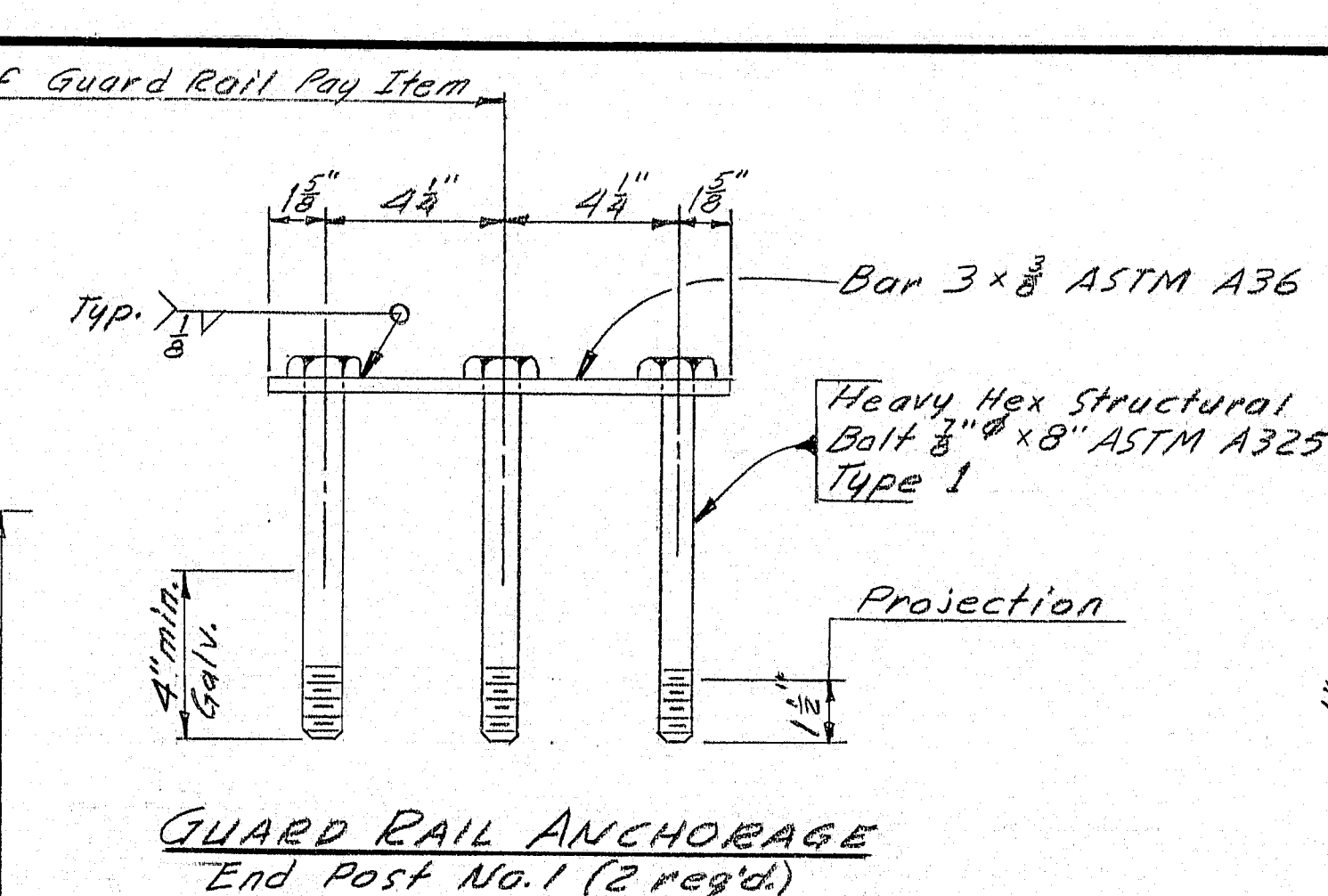
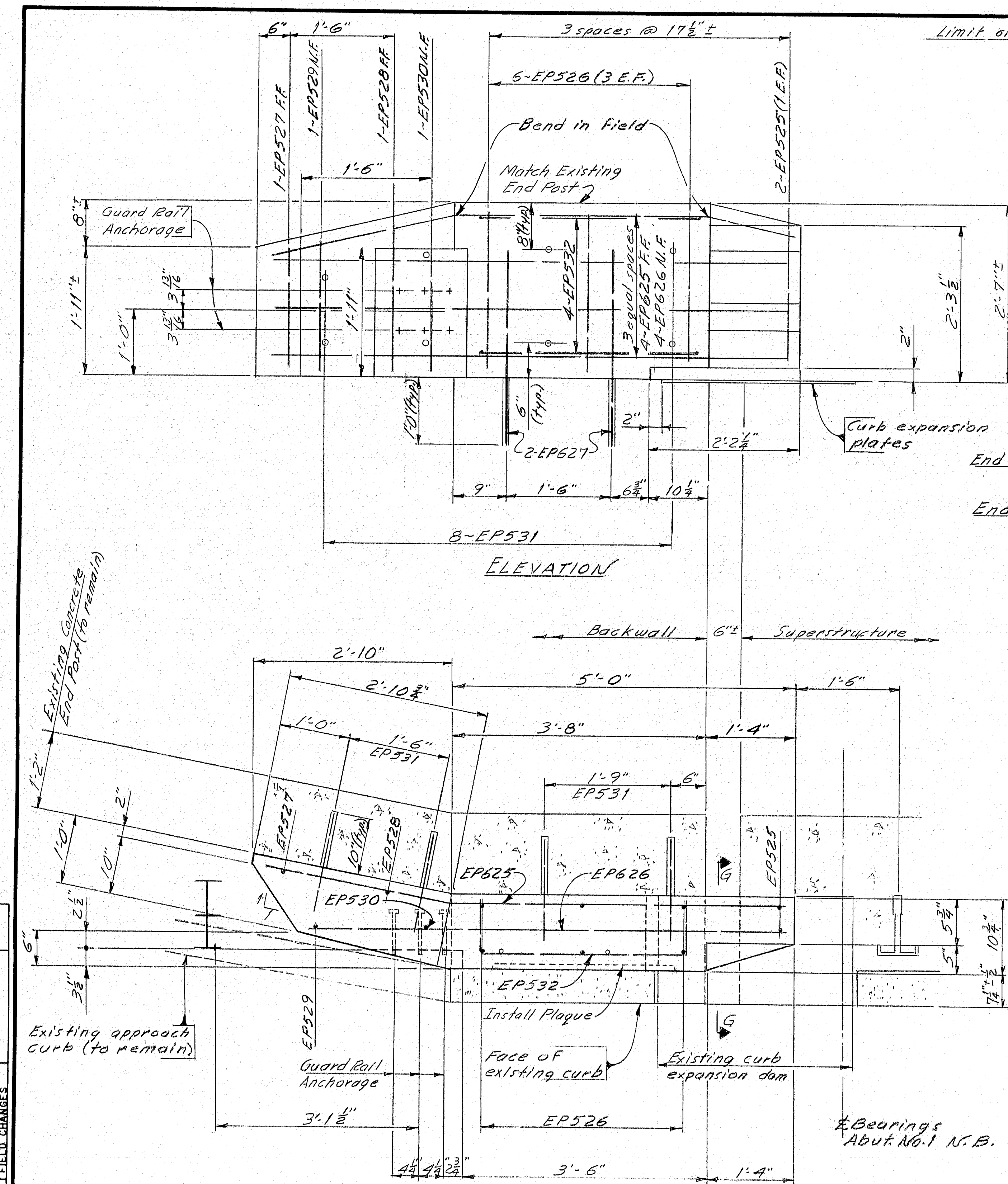
END POST DETAIL

119-138
 STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 CLINTON A. CLAUSON
 MEMORIAL BRIDGES
 OVER
 KENNEBEC RIVER
 IN THE TOWNS OF
 FAIRFIELD AND BENTON
 RAIL POST SPACINGS
 SHEET 13 OF 23 AUGUSTA, MAINE

PROJECT DESIGN ENGINEER	DATE
BY: [Signature]	11/26/86
DESIGN - CHECKED	2/13/87
REVISIONS	
FIELD CHANGES	

BRIDGE 44132-497101

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAIL	WJA	2/28
CHECKED	WJA	2/28
REVISIONS		
FIELD CHANGES		



Work this sheet with
Standard Details BD 120-81
Concrete End Posts

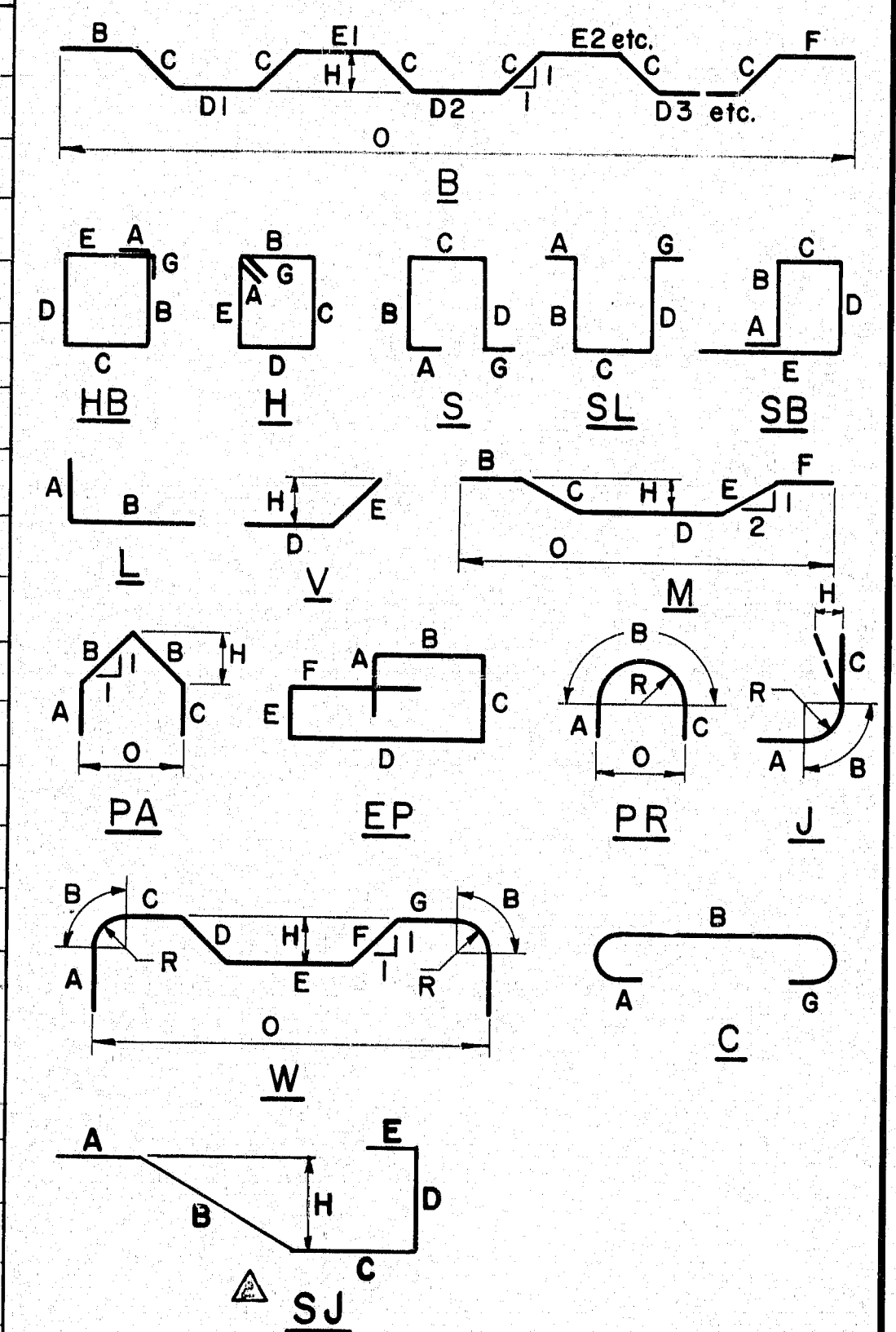
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD & BENTON
END POSTS NO. 1 & NO. 2

REINFORCING STEEL SCHEDULE

STRAIGHT BARS																BENT BARS															
MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION					
I-95 OVER RTE 201				CLINTON A. CLAUSON				STANDARD END POST				I-95 OVER RTE 201																			
5600	48	20'-0"	12 @ ea. Joint		PIER #5			EP500	12	1'-2"	@ C.C.	5500	8	7'-0"	5	1'-0"	1'-4"	2'-4"	1'-4"				1'-0"				2 @ ea. Curb				
						5510	24	18'-6"	12 N.B. & 12 S.B.	EP501	80	6'-3"																			
								EP600	20	2'-7"	8 @ 201; 12 @ C.C.																				
								EP601	20	2'-10"	8 @ 201; 12 @ C.C.																				
								EP602	80	3'-0"	32 @ 201; 4 @ C.C.																				
								PIERS #6 N.B. & S.B. & PIER #7 S.B.				I-95 OVER M.C.R.R.																			
						5520	36	24'-2	12 @ ea. Joint	EP603	8	2'-5"	@ 201	5507	4	5'-7"	5	1'-0"	1'-2"	1'-3"	1'-2"			1'-0"				2 N.B. Curb 2 S.B. Curb			
						5522	6	1'-3"	2 @ ea. Joint				201 @ Rte. 201 Bridge C.C. @ Clinton A. Clauson Memorial Bridges																		
						5523	1	2'-0"																							
						5524	1	2'-6"		CLINTON A. CLAUSON				CLINTON A. CLAUSON																	
						5525	6	3'-0"	2 @ ea. Joint	END POST No. 1				PIER #5																	
						5526	12	3'-0"	4 @ ea. Joint	EP525	2	1'-9"	Vertical	5511	8	7'-0"	5	1'-0"	1'-4"	2'-4"	1'-4"			1'-0"				4 N.B. & 4 S.B.			
						5527	3	2'-2"	1 @ ea. Joint	EP526	6	2'-4"																			
						5528	3	1'-9"	1 @ ea. Joint	EP527	1	1'-8"																			
						5529	3	2'-3"	1 @ ea. Joint	EP528	1	2'-2"																			
						5530	12	3'-4"	4 @ ea. Joint	EP529	1	1'-9"																			
						5531	3	1'-3"	1 @ ea. Joint	EP530	1	2'-4"	Vertical																		
						5532	6	4'-6"	2 @ ea. Joint	EP531	8	1'-6"	Dowel																		
						5533	1	4'-0"																							
						5534		3'-4"																							
						5535		2'-10"		EP625	4	7'-6"	Horizontal																		
						5536		2'-2"		EP626	4	6'-10"	Horizontal																		
						5537	1	1'-7"		EP627	2	2'-10"	Vertical (Dowels)																		
						5538	6	1'-0"	2 @ ea. Joint																						
																							</								

FHWA	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-95-7 (90)	15	23

TYPE-BENDING DIAGRAMS



All dimensions are out to out of reinf. bar.
Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 318.Δ
Reinforcing Bar: ASTM A615 Grade 60

GENERAL NOTES

- First digit(s) following the letter of the Mark indicates size of reinf. bar.
Mark (A502) bar size - #5
Mark (P1001) bar size - #10
Mark (S603) bar size - #6
- Each truss bar, Type B, may be replaced by two (2) straight bars (one top & one bottom) of the same bar size as the truss bar. Payment in either case shall be based on truss bars as scheduled on plans.

119-140
N.B. Bar Type B3
Revised ACI Standard
5-12-83

REVISIONS DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

I-95 OVER RTE 201
CLINTON A. CLAUSON
MEMORIAL BRIDGES
IN THE TOWN OF
FAIRFIELD & BENTON
REINFORCING STEEL SCHEDULE

PLANS
DESIGN - DETAIL
CHECKED
REVISIONS
FIELD CHANGES

DATE
12-96
BY
ETD
DMD
2-13-87