

SCOPE OF WORK

- ① Modify existing joint armor and install compression seal at abutment #1.
- ② Remove existing joint armor slab element and install new element, modify backwall element and install compression seal at abutment #2.
- ③ Remove existing slab barrier rail and curb as necessary to install new standard concrete end posts at abutment #2.
- ④ Repair damaged tubular railing.
- ⑤ Remove existing 2" bituminous pavement and membrane waterproofing and install new membrane waterproofing and place new 2 1/2" bituminous wearing surface.
- ⑥ Remove existing expansion bearings and install new expansion bearings at both abutments.
- ⑦ Clean and paint all structural steel below superstructure slab.
- ⑧ Maintain traffic on a 15 foot minimum width lane during construction.
- ⑨ Guard rail modified under approach work.

SPECIFICATIONS

DESIGN: AASHTO Standard Specifications for Highway Bridges 1989, and interim Specifications 1990.

CONTRACT: State of Maine, Department of Transportation, Standard Specifications, Highways and Bridges, Revision of October 1990.

DESIGN LOADING

LIVE LOAD: HS20 Existing

MATERIALS

CONCRETE: ----- Class AA
REINFORCING STEEL: - ASTM A615 Grade 60
STRUCTURAL STEEL: - - - - - ASTM A36
High Strength Bolts, ASTM A325 Type 1

BASIC DESIGN STRESSES

CONCRETE: ----- $f'_c = 3000$ psi
REINFORCING STEEL: - - - - - $f_y = 60,000$ psi
STRUCTURAL STEEL:
ASTM A36 - $F_y = 36,000$ psi
ASTM A325 - $F_v = 25,000$ psi

F.R.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	ER-95-B(143)	19	21

PROJECT DESIGN ENGINEER	DATE
BY	11/1/90
DESIGN - DETAILED	
CHECKED	
REVISIONS	
FIELD CHANGES	

BRUNNEN 45704

As Built 1991 R2

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

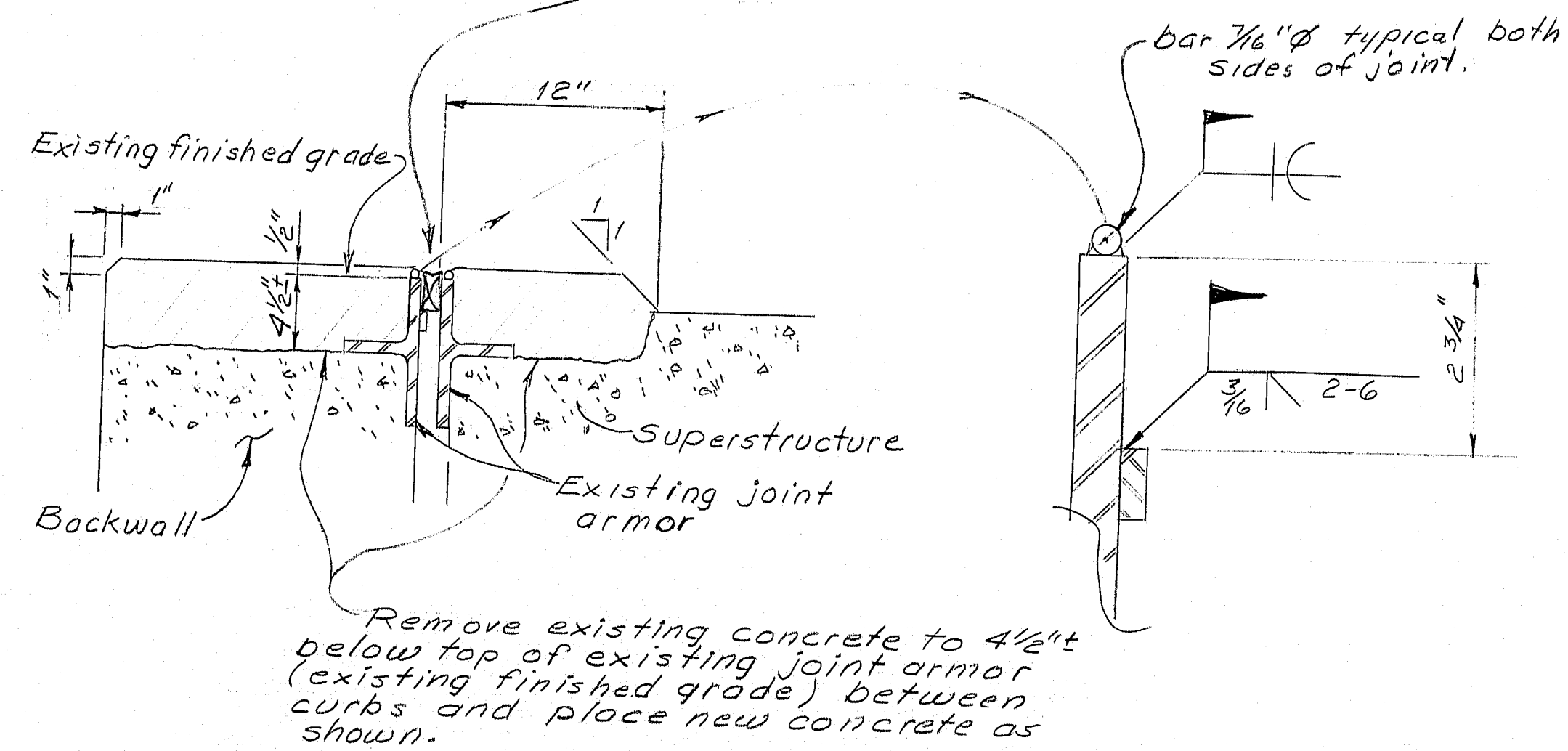
INTERSTATE 95SB
over
PUSHAW STREAM

OLD TOWN
PENOBSCOT COUNTY
General Plan

SHEET 1 OF 3 AUGUSTA, MAINE

103-489

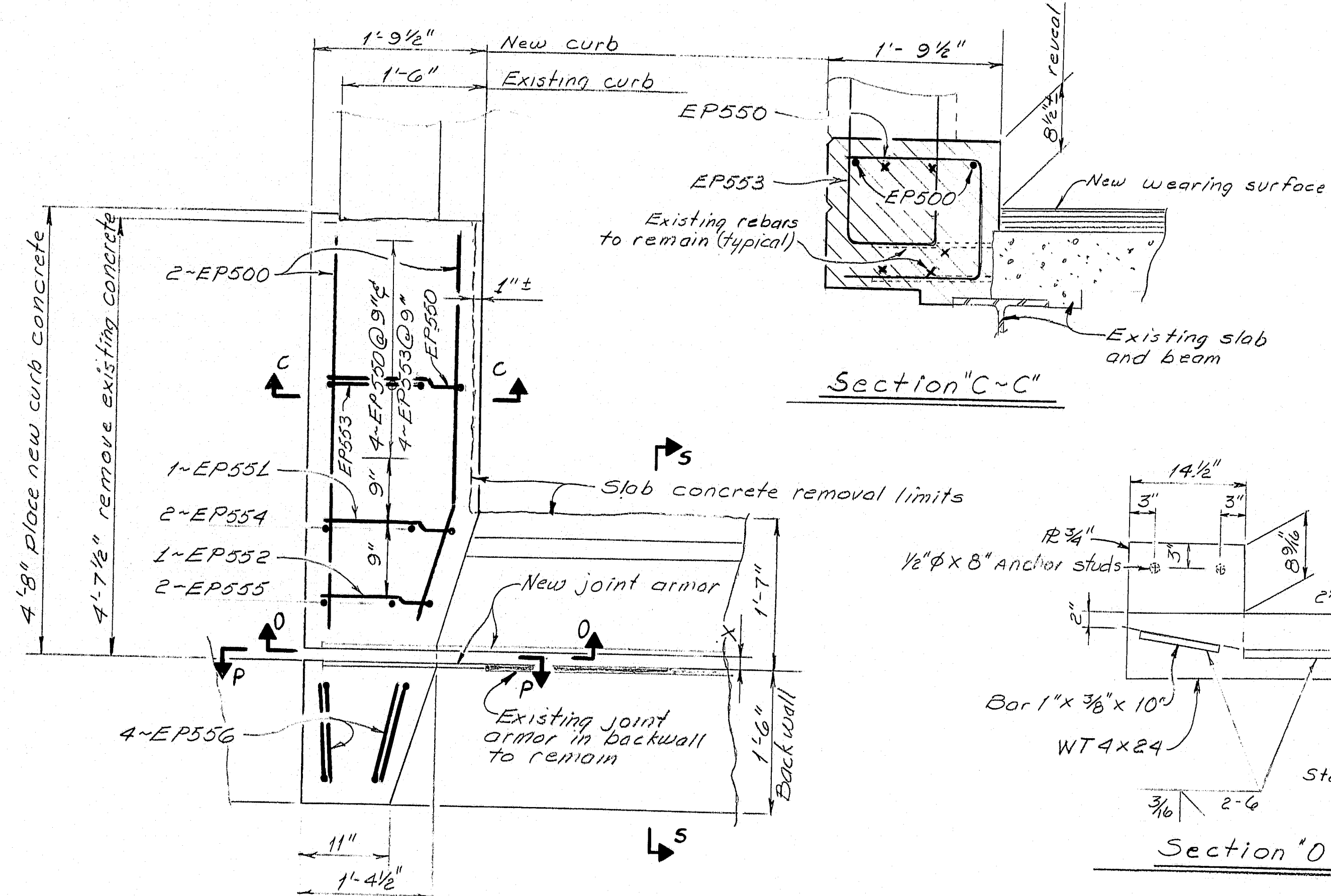
Install seal type H-2250 (from D.S. Brown company) or equivalent from fascia to fascia. Turn seal up a minimum of 2" in the curbs.



shown. where as

(1). JOINT MODIFICATION ABUTMENT #1

Payment will be made under Item 520.2402
Bridge Joint Modification

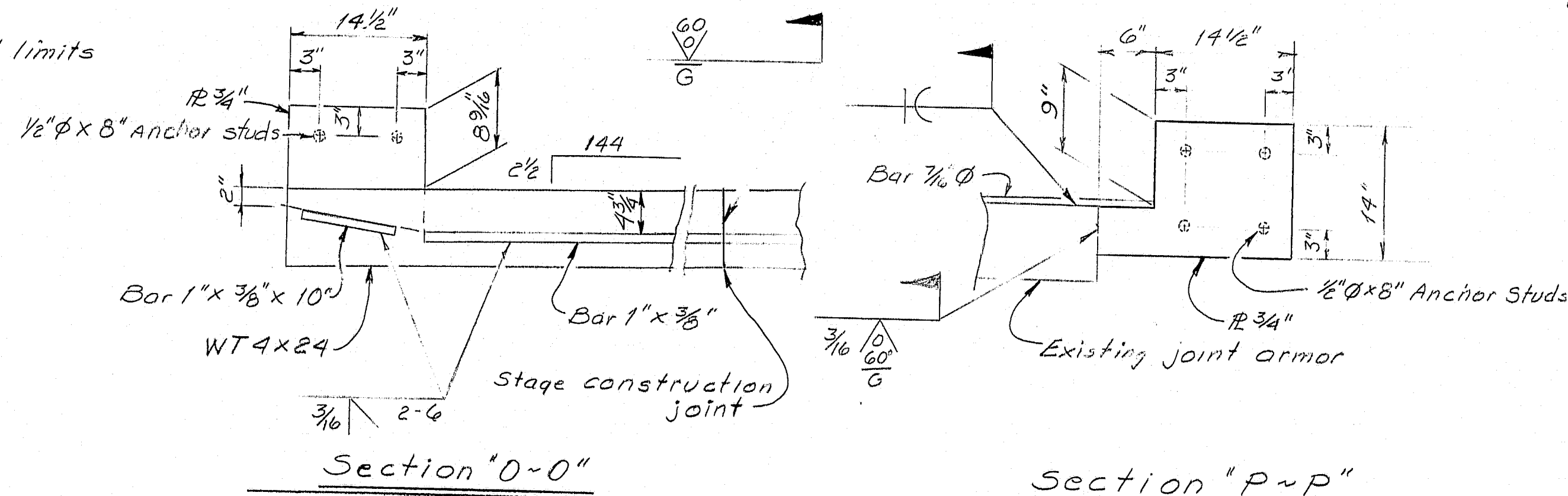
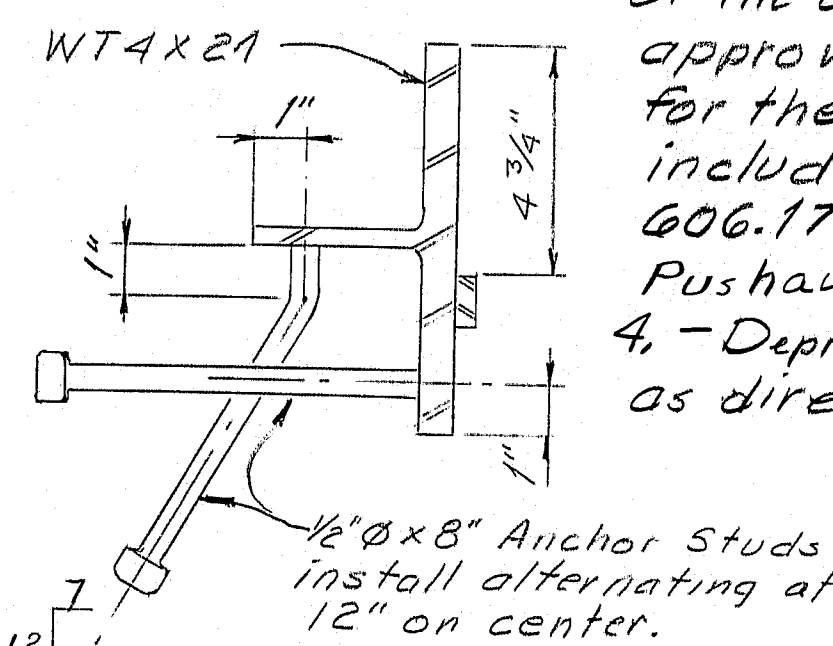


② JOINT MODIFICATION ABUTMENT #2

East Side shown. West Side similar.
Payment will be made under Item 300.2912
Bridge Joint Modification

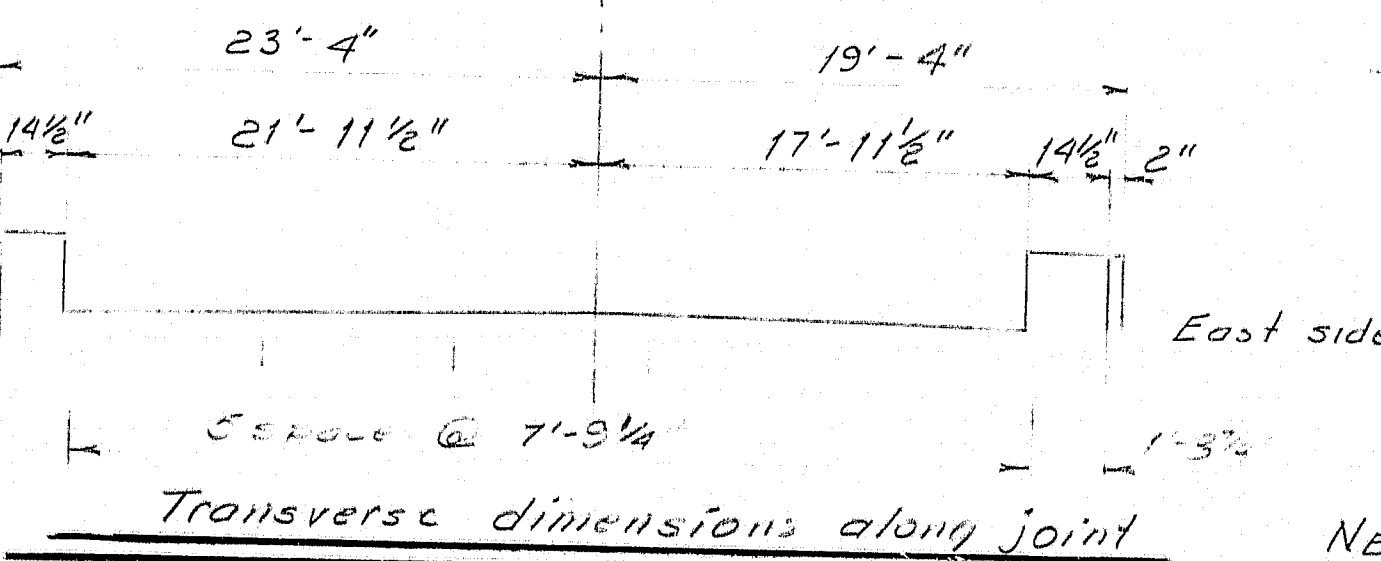
Construction Notes: Pushaw Stream

- 1.- Reinforcing Steel shall have 2" minimum cover.
2.- Remove the existing bearing pedestals at both abutments and install new bearing pedestals EPB-1, modified as follows:
Dimension "C" shall be the same as dimension "D" with slotted holes $1\frac{3}{8} \times 3$ " in the rocker plate. The length of the anchor bolts shall be increased from 1'-10" to 2'-0" and the hex nuts shall be locked together $\frac{5}{16}$ " above the top of the masonry instead of the $\frac{1}{4}$ ", all as shown on Standard Details BD 101-89 BEARING PEDESTALS.
The method of installation of the new pedestals shall be as approved by the Engineer. Payment will be made under Item 523.11 Bearing Pedestals - Structural Steel.
3.- The existing tubular rail post which has broken away from its anchorage shall be repaired as follows:
The post shall be reinstalled using 4- $3\frac{1}{2}$ " ϕ 12×12 bolts with washers and nuts, ASTM A325 Type 1 Hot dipped galv. .
A preformed pad shall be installed under the post. The method of installation of the anchorage shall be as approved by the Engineer. Payment for the repair of the post shall be included in the price for Item 606.1732 Bridge Connection, Pushaw Stream.
4.- Depress pavement at bridge drains as directed by the Engineer.



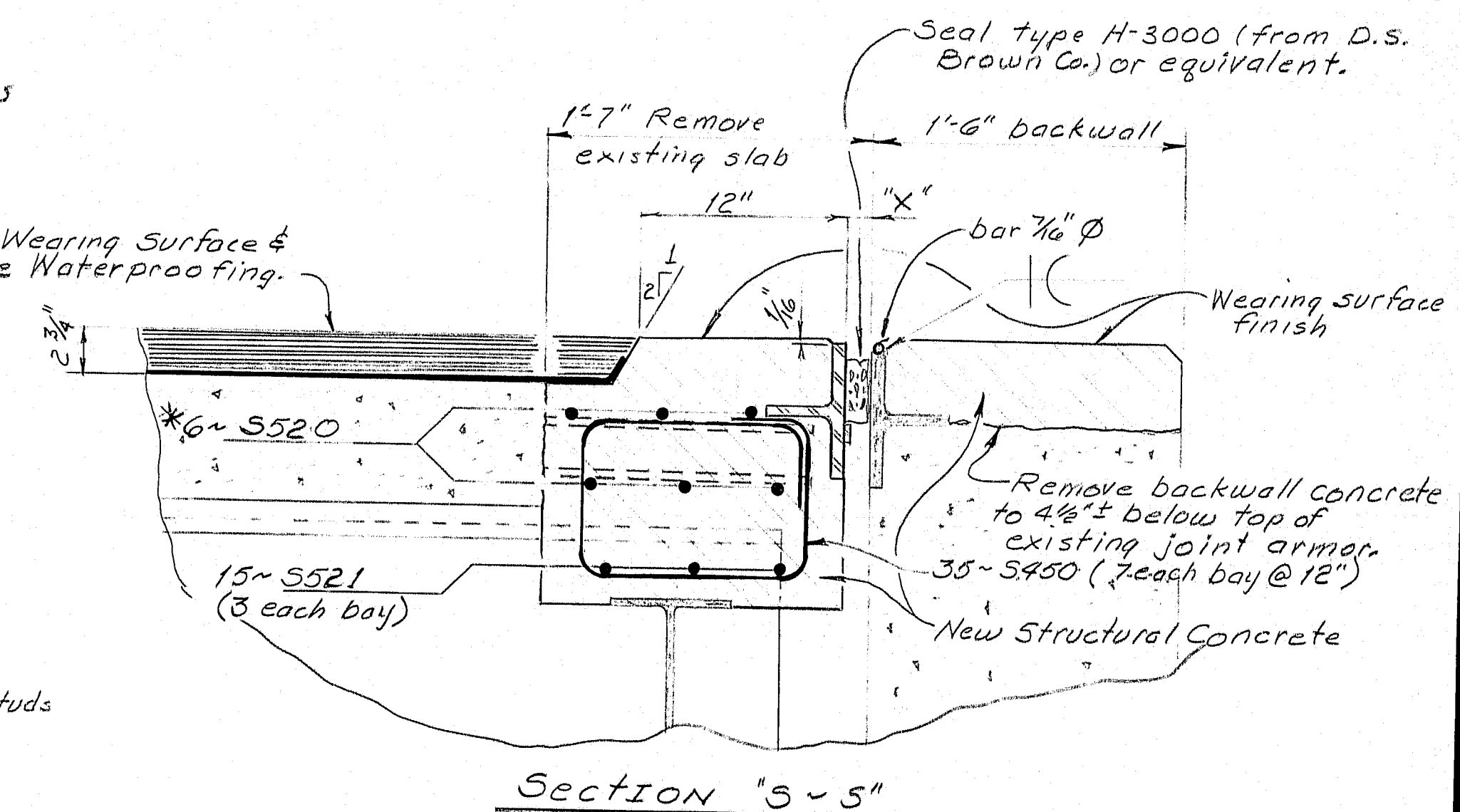
Section "p~p"

£ Construction, I 95 S.B.



5. Field pointing the new bearing pedestals will be paid for under Item 506.172 Field Painting Existing Structural Steel (Code Number - ZHP-1). Pushaw Stream
6. - Before placing new structural concrete, the existing concrete to be in contact with the new concrete shall be coated with a bonding grout. The bonding grout shall be as specified in Sub section 502.11, (g), paragraph 7 of the Standard Specifications.
7. - Protective coating shall be applied to all exposed surfaces of new concrete in accordance with Section 515 of the Standard Specifications. The protective coating will not be paid for separately but will be considered included in the payment for related contract items.
8. - The new joint armor shall be installed in two sections to provide for stage construction. The location of the stage construction joint shall be determined by the contractor. The compression seals shall be installed in one piece as shown.
9. - Guard rail attachment to the bridge shall be as shown on Standard Details BD 201-89 Concrete End Posts.

10.- All work shall be done behind temporary concrete barrier.



* Note: 5520 bars shall be field cut to fit with a 1'-9" splice at stage construction joint.

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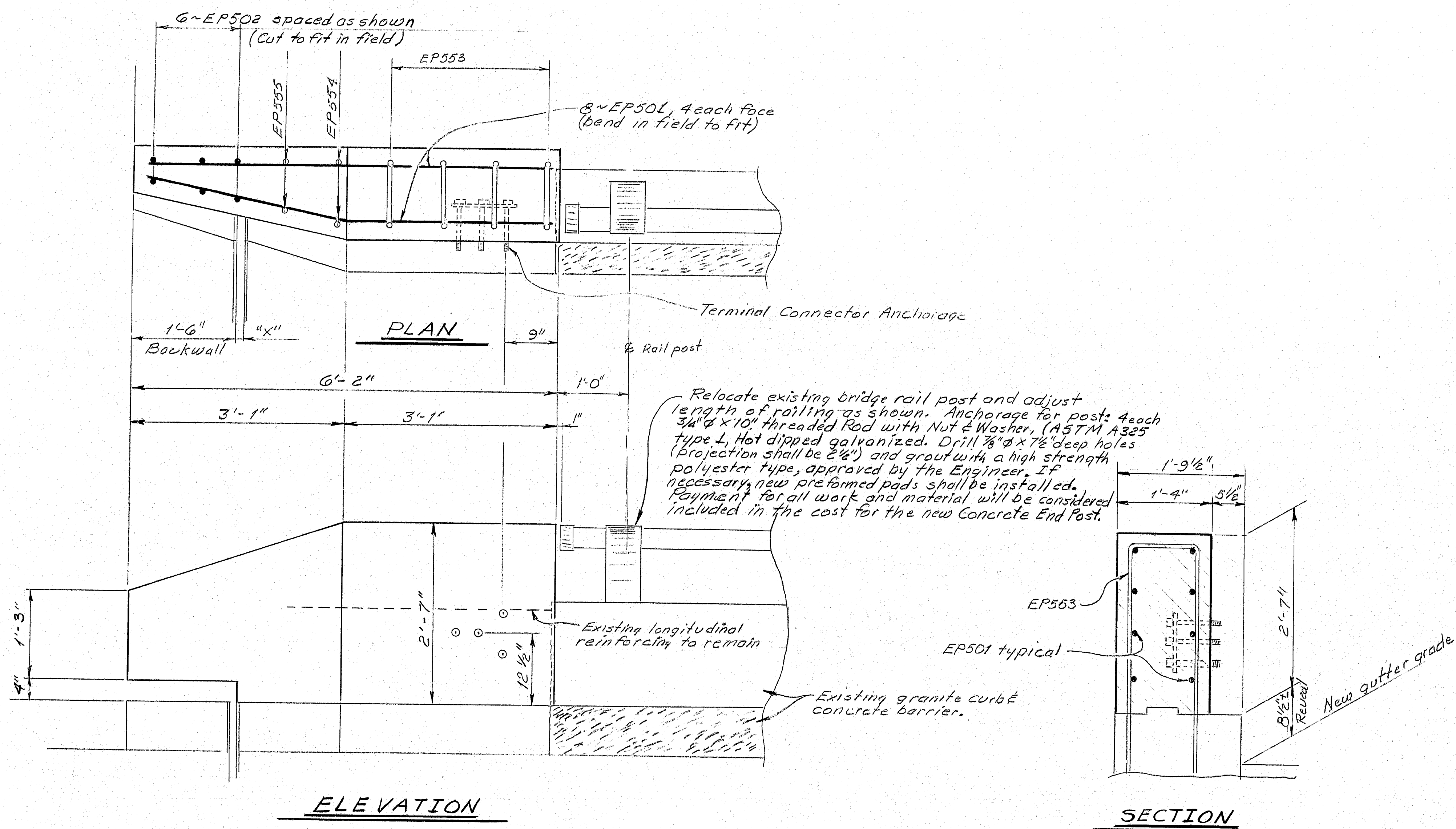
AS Built 1991 22 million ~

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95SB
over
PUSHAW STREAM

OLD TOWN
PENOBSCOT COUNTY
Joint Modifications

SHEET 2 OF 3 AUGUSTA, MAINE



(3) STANDARD CONCRETE END POST (Modified)

East side shown, west side similar.
Payment will be made under Item 606.1732 Bridge Connection, Pushaw Stream.

REINFORCING STEEL				
MARK	No.	LENGTH	Remarks	
Straight Bars				
EP500	4	4'-0"	End Post Curb	
EP501	16	5'-10"	End Post Horizontal	
EP502	12	1'-5"	End Post Vertical	
5520	6	45'-0"	End of Superstructure Slab, Abut.#2	
5521	15	7'-6"	End of Slab Haunch, Abut.#2	
Bent Bars				
EP550	8	4'-2"	1'-3"	
			1'-5 1/2"	
EP551	2	3'-10"	1'-3"	
			1'-3 1/2"	
EP552	2	3'-6"	1'-3"	
			1'-1 1/2"	
EP553	8	10'-0"	3'-6"	
			1'-0"	
EP554	4	4'-2"	3'-2"	
			1'-0"	
EP555	4	3'-11"	2'-11"	
			1'-0"	
EP556	8	3'-0"	2'-0"	
			1'-0"	
5450	35	4'-6"	0'-9"	
			1'-1"	
			0'-9"	

All dimensions are out to out of bars.
Bending shall conform to the recommendations of the current revision of ACI Standard 318.
Reinforcing Bars ASTM A615 Grade 60.

Note: Reinforcing steel shall meet the requirements of Section 503 of the standard specifications. Reinforcing steel will not be paid for directly but will be considered included in the payment of related contract items.

103-491

STATE OF MAINE DEPARTMENT OF TRANSPORTATION INTERSTATE 95SB over PUSHAW STREAM OLD TOWN PENOBSCOT COUNTY End Posts
SHEET 21 OF 21 AUGUSTA, MAINE

PROJECT DESIGN ENGINEER	DATE
BY LALU	11-7-92
DESIGN DETAIL	CHECKED
REVISIONS	FIELD CHANGES
PLANS	

BRIDGE 4570-1