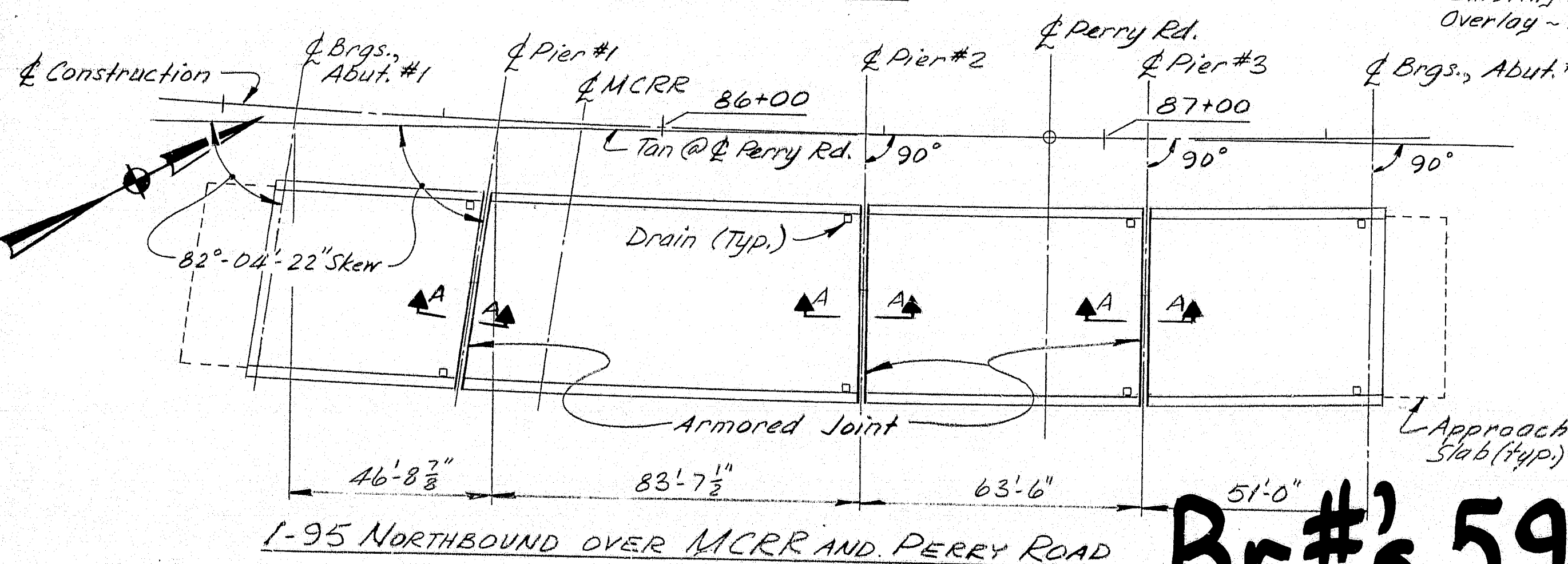
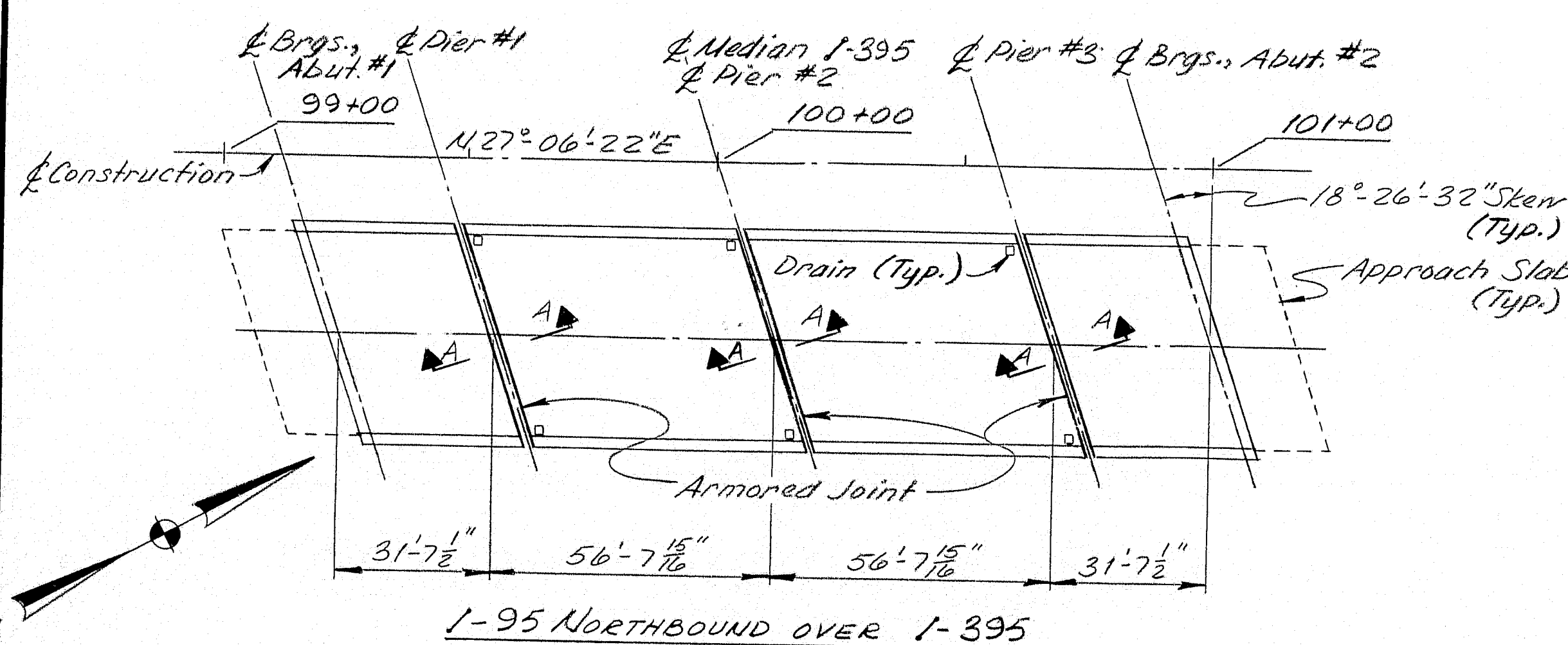
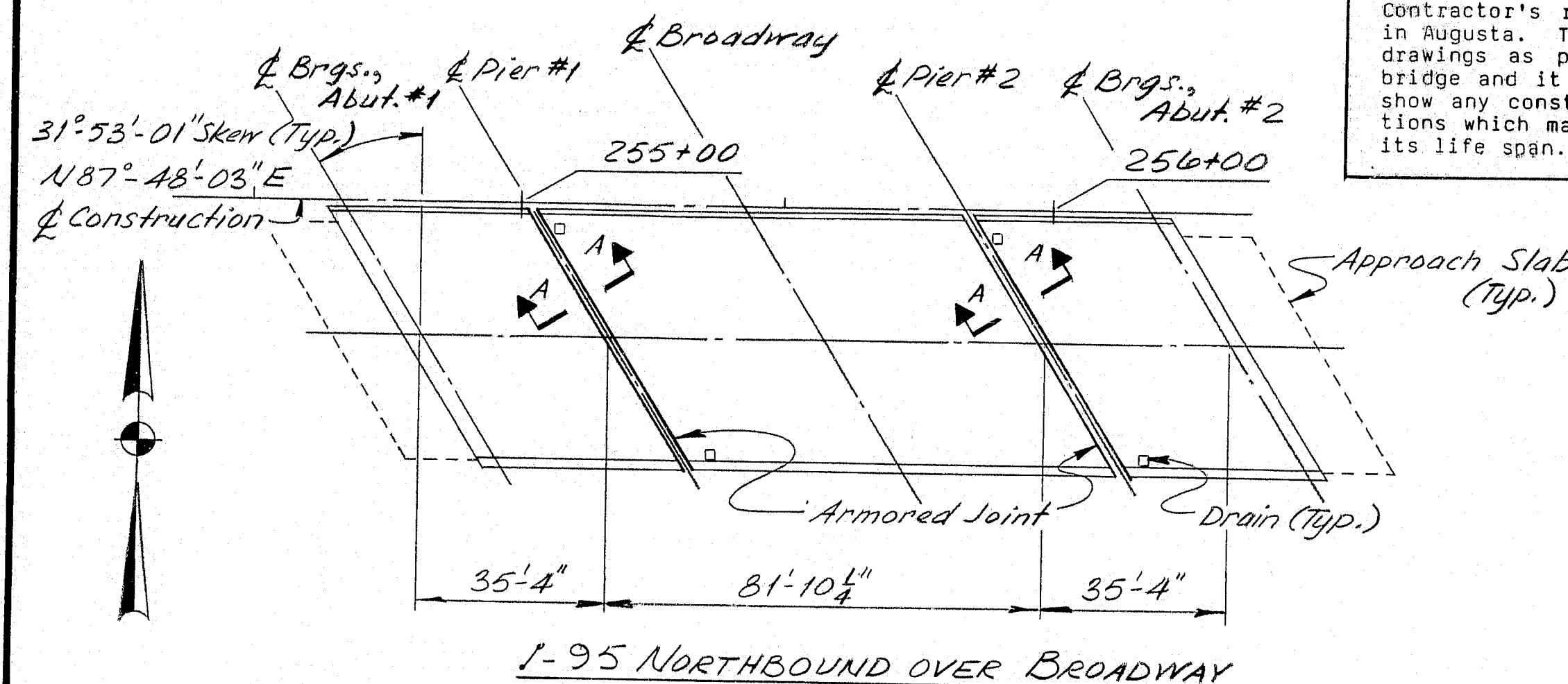
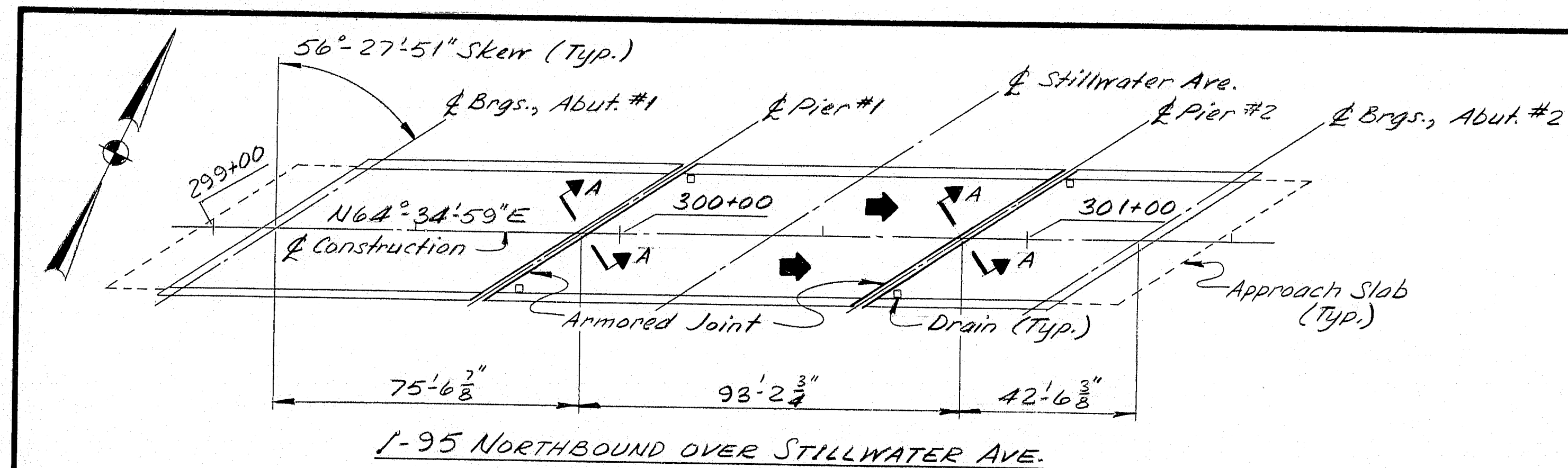
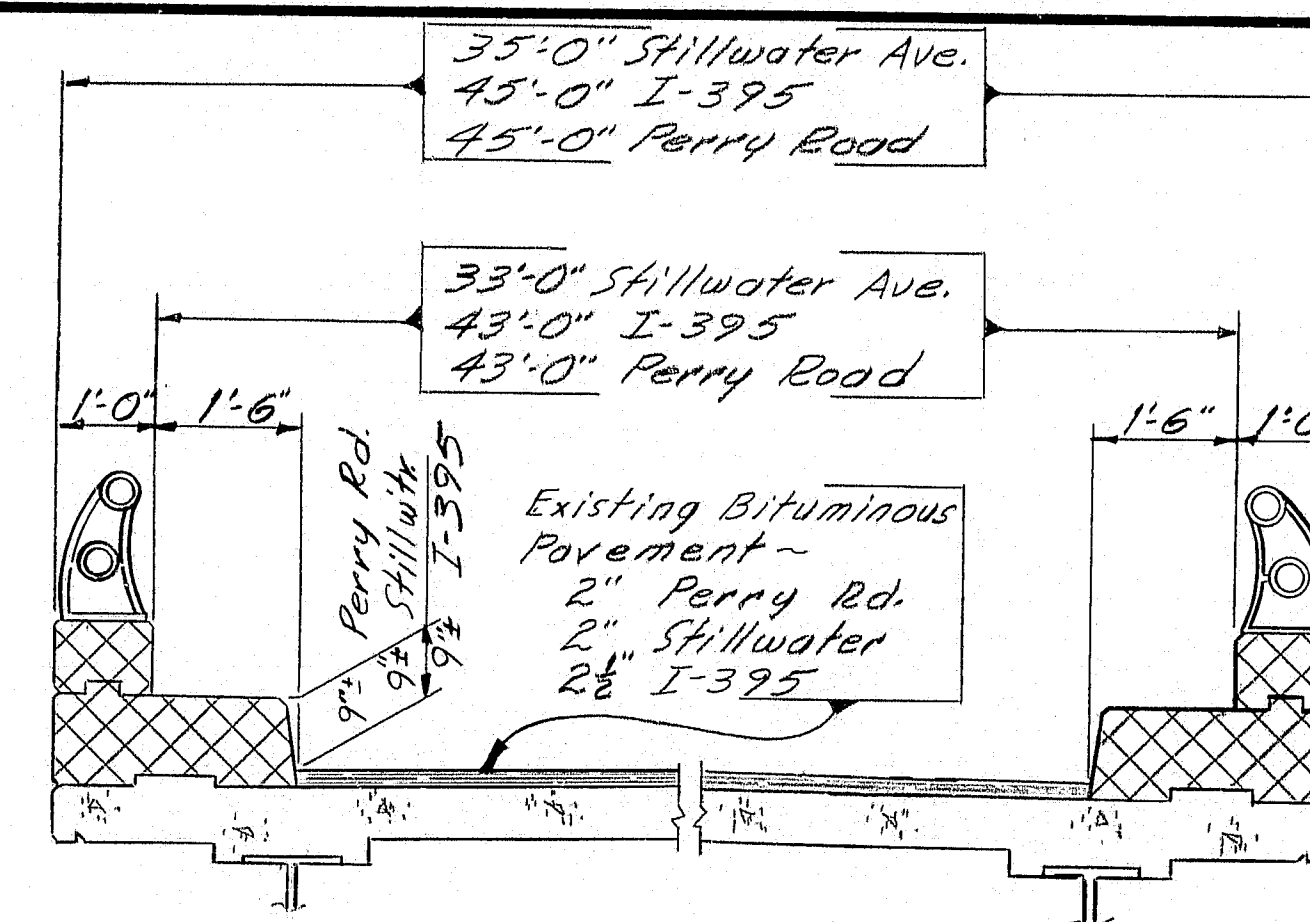


PROJECT DESIGN ENGINEER	DATE
DESIGN - DETAILED	12/2/81
CHECKED	1/2/82
FIELD CHANGES	

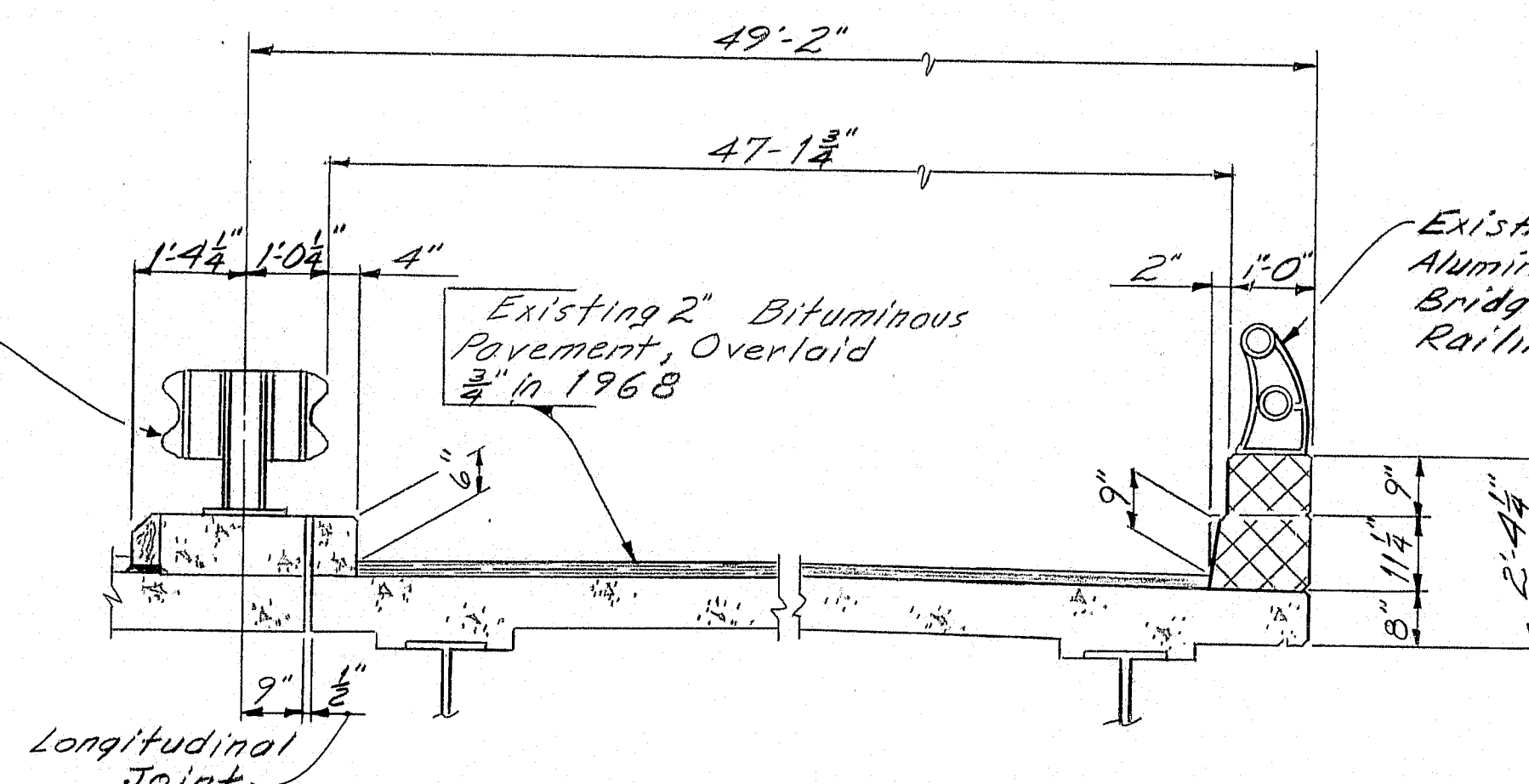


Plans of the existing bridge are available for the Contractor's reference at the Bridge Design Office in Augusta. The plans are reproductions of original drawings as prepared for the construction of the bridge and it is very unlikely that the plans will show any construction field changes or any alterations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

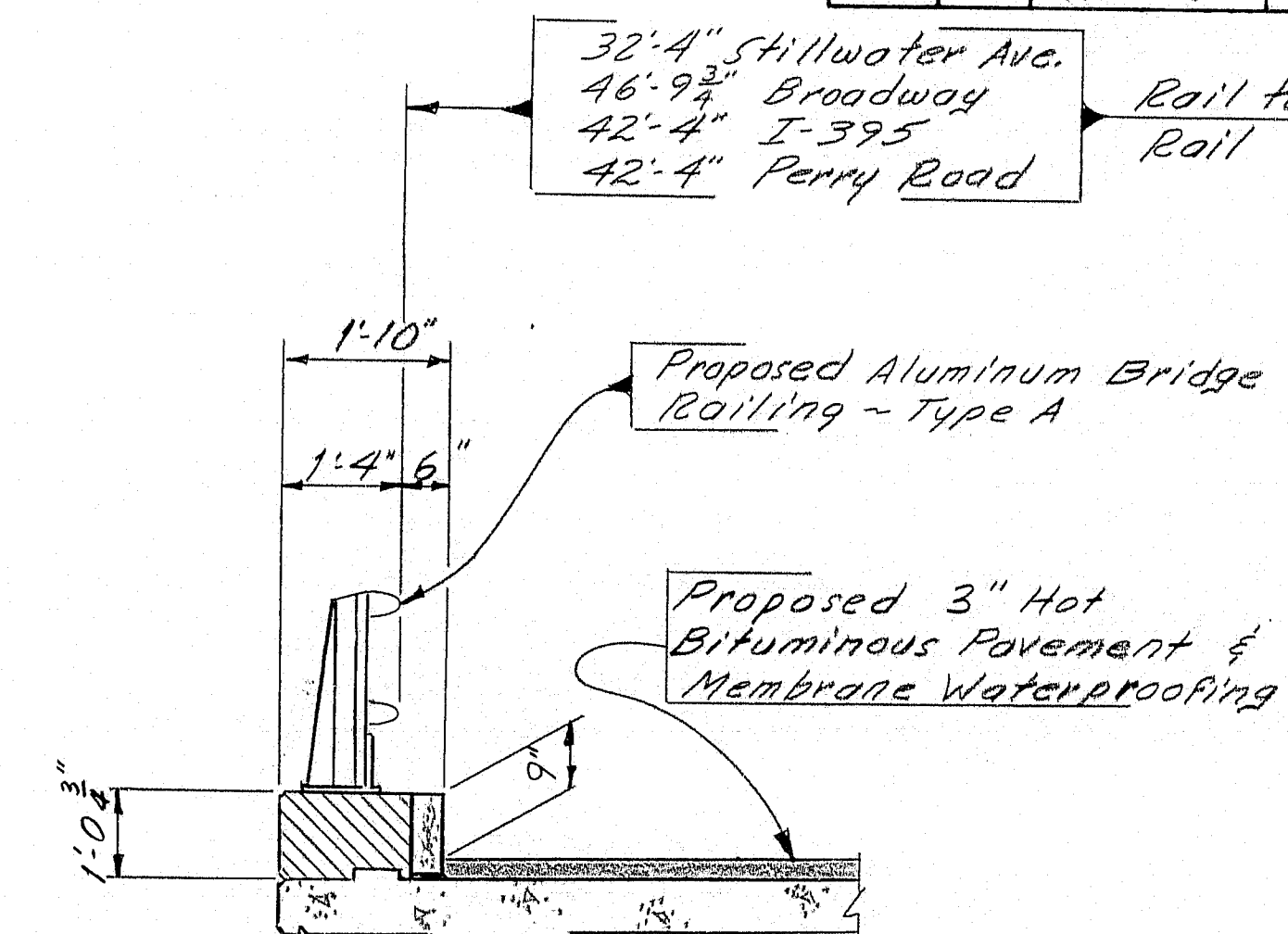
SYMBOLS			



TRANSVERSE SECTION



TRANSVERSE SECTION



PROPOSED CURB SECTION

SPECIFICATIONS

DESIGN: Load Factor Design per AASHTO Standard Specifications for Highway Bridges 1977 and Interims thru 1982.
 CONTRACT: State of Maine, Department of Transportation, Standard Specifications, Highways and Bridges, Revision of June 1981.

MATERIALS

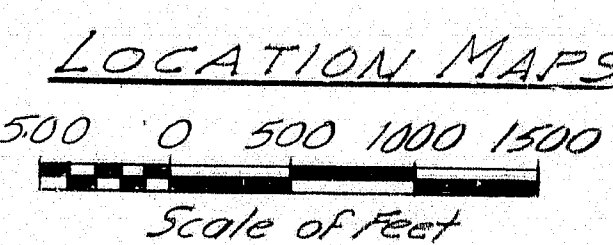
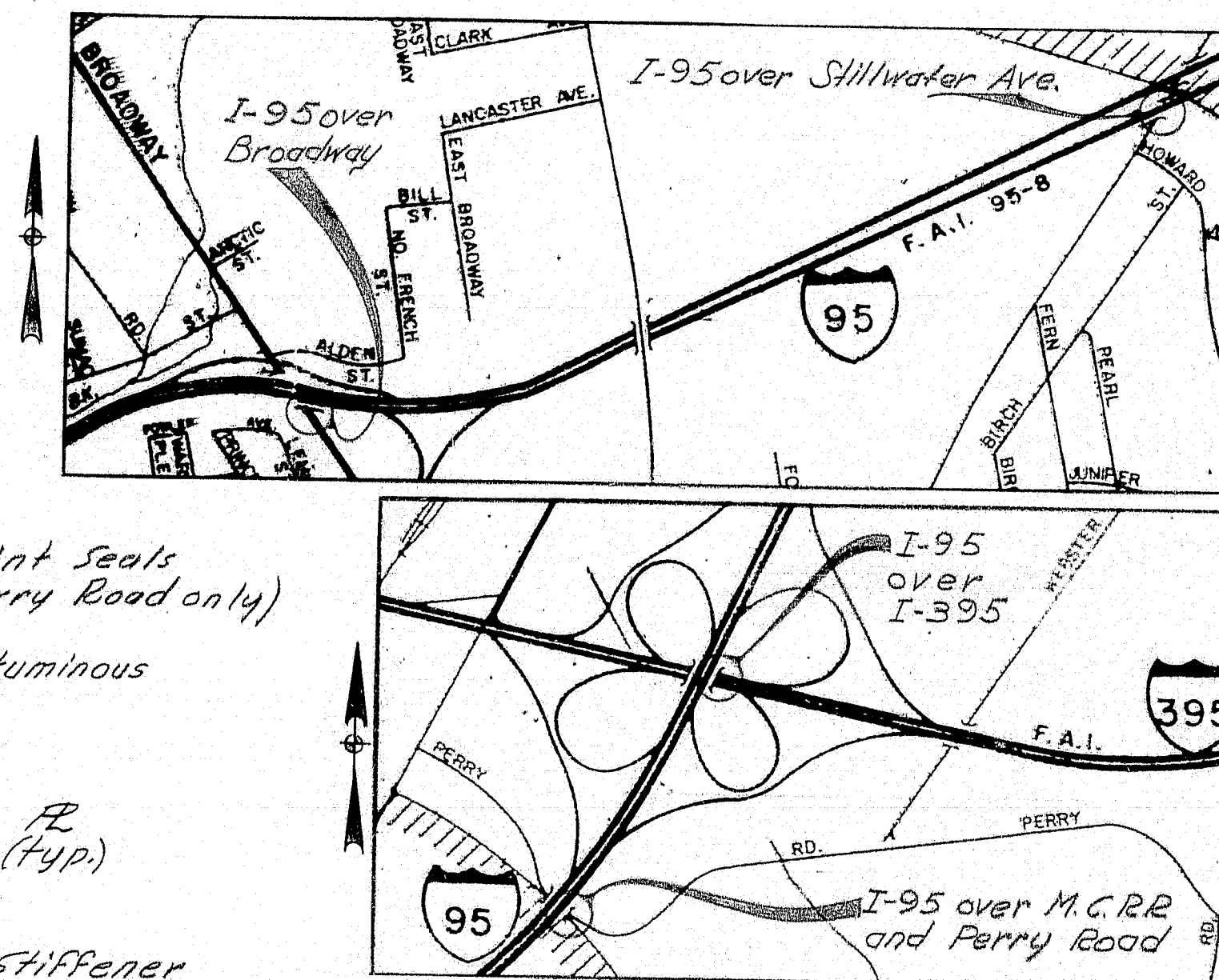
CONCRETE: Class "A"
 REINFORCING STEEL: ASTM A615, Grade 60

BASIC DESIGN STRESSES

CONCRETE: $f'_c = 3000$ PSI
 REINFORCING STEEL: $f_y = 60,000$ PSI

INDEX OF SHEETS

General Plan	1
Estimated Quantities and Gen. Construction Notes	2
I-95 N.B. over MCR & Perry Road	3
I-95 N.B. over I-395	4
I-95 N.B. over Broadway	5
I-95 N.B. over Stillwater Avenue	7 & 8
Reinforcing Steel Schedule	9
Standard Details:	
BD 114-81 Alum. Bridge Railing, 2" Bar	10
BD 120-81 Conc. End Posts	11
BD 127-81 Temp. Conc. Barrier	12



STATE OF MAINE DEPARTMENT OF TRANSPORTATION
INTERSTATE 95 NORTHBOUND OVER STILLWATER AVENUE BROADWAY INTERSTATE 395 MCR AND PERRY ROAD BANGOR GENERAL PLAN
SHEET 1 OF 12 AUGUSTA, MAINE

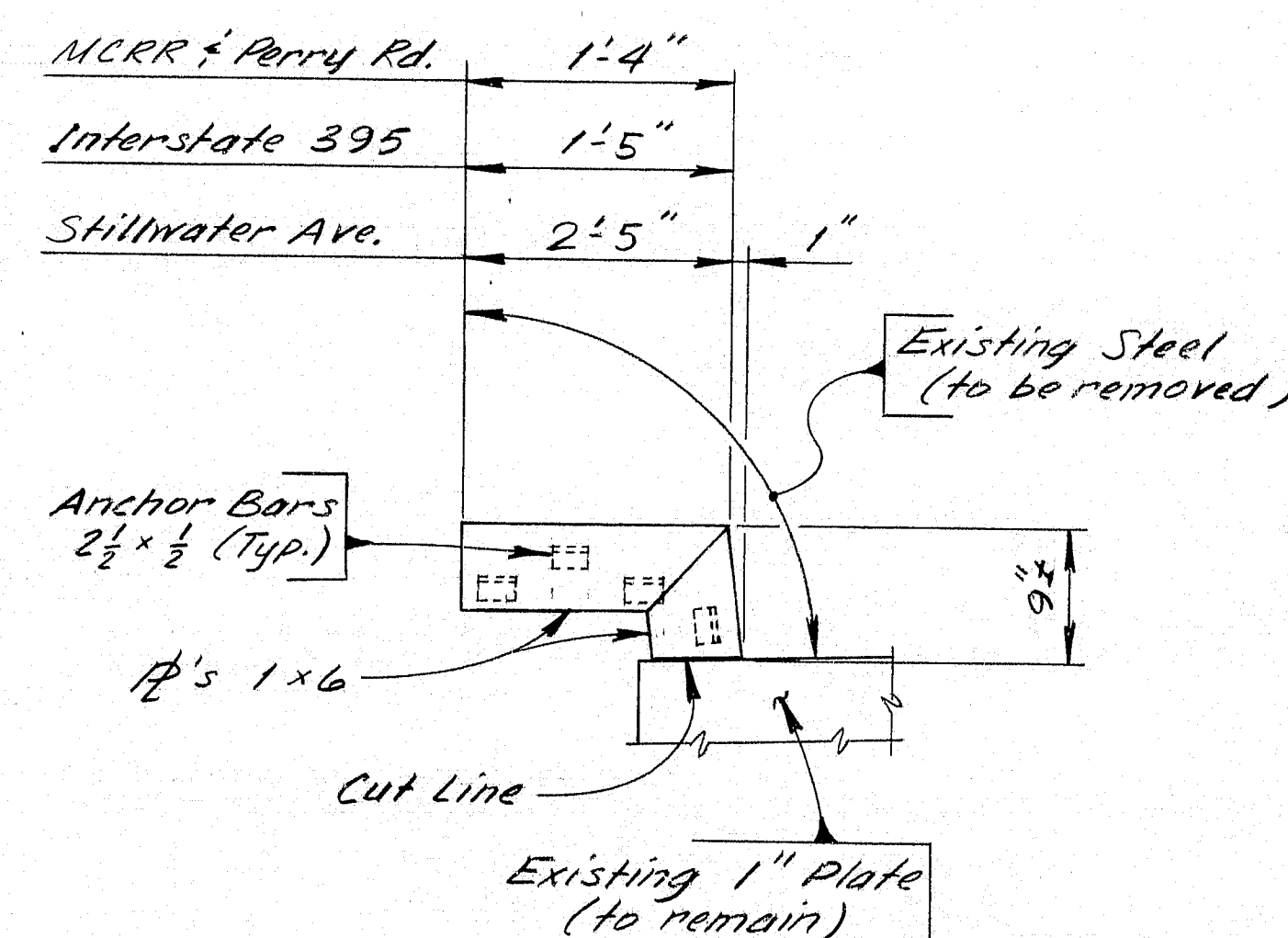
Br.#'s 5972, 5795, 5789, & 5800 R90-160

ESTIMATED BRIDGE QUANTITIES

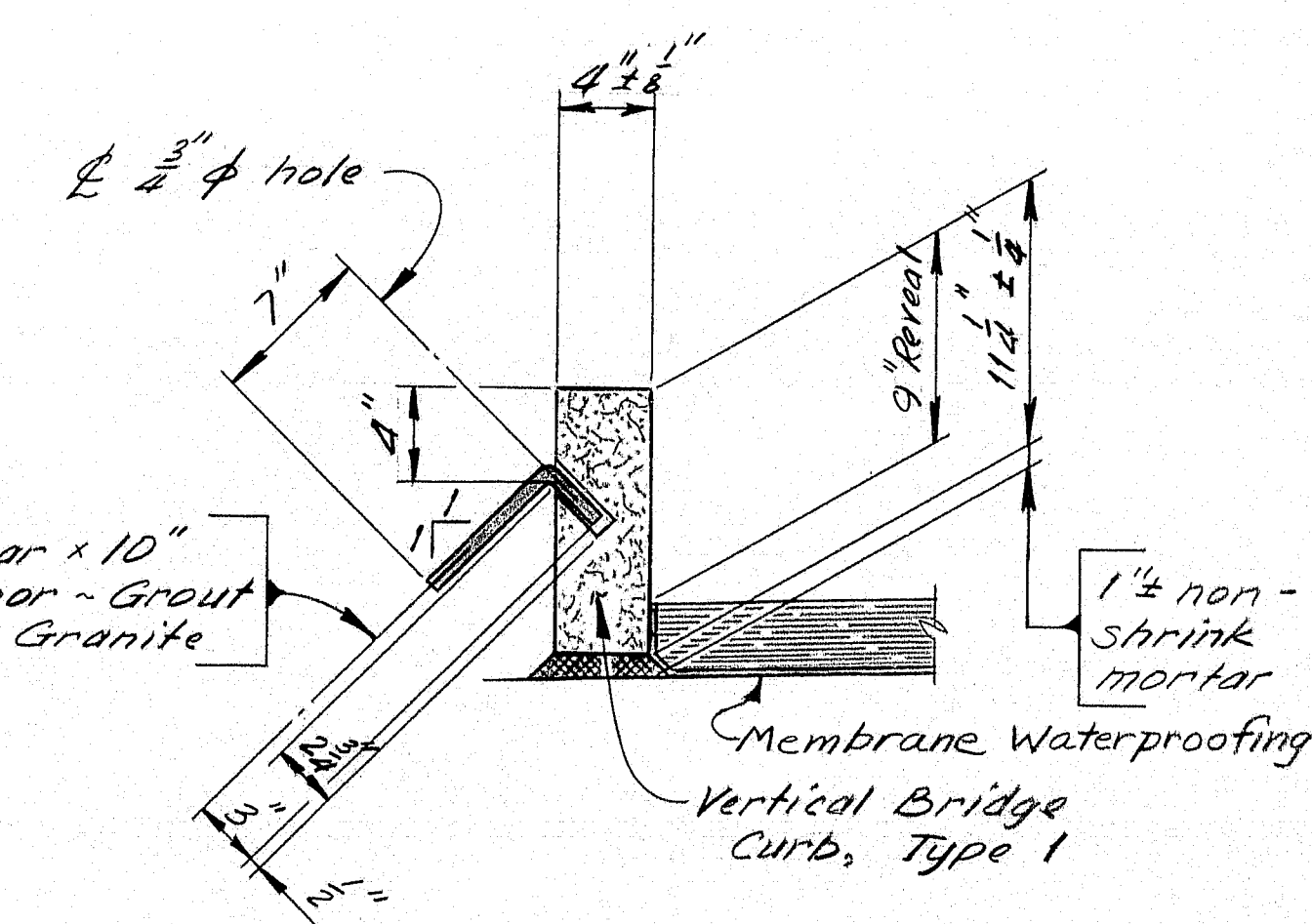
Item No.	Description	Unit	1-95 N.B./MCR	1-95 N.B./1-395	1-95 N.B./Broadway	1-95 N.B./Stillwater	Total Quantity
202.12	Removal of Existing Structural Concrete	C.Y.	75	43	10	55	183
202.13	Removing Existing Railings (Retained by Department)	L.F.	504	358	155	433	1450
202.201	Removing Bituminous Pavement (including Membrane Waterproofing)	S.Y.	1124	802	813	728	3467
403.08	Hot Bituminous Pavement, Grading "C"	Ton	192	137	132	126	587
502.42	Structural Concrete Roadway and Sidewalk Slabs on Steel Bridges	C.Y.	32	23	10	28	93
503.12	Reinforcing Steel Fabricated and Delivered	Lbs.	3176	2313	940	3238	9667
503.13	Reinforcing Steel Placing	Lbs.	3176	2313	940	3238	9667
507.092	Aluminum Bridge Railing, 2-Bar	L.F.	485	340	146	415	1386
508.10	Membrane Waterproofing	S.Y.	1176	839	810	773	3598
514.06	Curing Box for Concrete Cylinders	Each	0.25	0.25	0.25	0.25	1
515.20	Protective Coating for Concrete Surfaces	L.S.	0.25	0.25	0.25	0.25	1
520.2401	Expansion Device Modification (MCR & Perry Rd.)	Each	3	—	—	—	3
520.2402	Expansion Device Modification (1-395)	Each	—	3	—	—	3
520.2403	Expansion Device Modification (Broadway Pier No. 1)	Each	—	—	1	—	1
520.2404	Expansion Device Modification (Broadway Pier No. 2)	Each	—	—	1	—	1
520.2405	Expansion Device Modification (Stillwater Ave. Pier No. 1)	Each	—	—	—	1	1
520.2406	Expansion Device Modification (Stillwater Ave. Pier No. 2)	Each	—	—	—	1	1
526.30	Temporary Concrete Barrier, Type 1	L.F.	480	400	380	440	1700
526.40	Resetting Temporary Concrete Barrier, Type 1	L.F.	480	400	380	440	1700
606.364	Guard Rail, Remove, Modify and Reset Type 3b	L.F.	50	—	—	—	50
606.367	Replace Unusable Existing Guard Rail Posts	Each	2	—	—	—	2
609.13	Vertical Bridge Curb, Type 1	L.F.	469	318	138	399	1324
609.38	Reset Curb Type 1	L.F.	80	80	40	80	280
629.05	Hand Labor, Straight Time	M.H.	20	20	20	20	80
631.10	Air Compressor (including operator)	Hr.	20	20	20	20	80
631.11	Air Tool (including operator)	Hr.	20	20	20	20	80
659.10	Mobilization	L.S.	0.25	0.25	0.25	0.25	1
660.21	On-the-Job Training	M.H.	—	—	—	—	—

GENERAL CONSTRUCTION NOTES

- Chamfer all exposed edges of concrete a consistent dimension between $\frac{1}{2}$ " and $\frac{3}{4}$ " inclusive.
- Reinforcing steel shall have 2 inches cover unless otherwise indicated.
- Protective Coating for Concrete Surfaces shall be applied to all exposed surfaces of the new concrete curbs, fascias, concrete end posts, and concrete wearing surface at Stillwater Avenue and Broadway Pier No. 2 expansion joints.
- At all structures, the existing granite curbs on the approaches adjacent to the bridge curbs shall be reset for a length of about twenty feet each, as determined by the Engineer, to provide a transition to the new bridge curbs. Payment will be made under Item 609.38.
- Holes for grouting curb reinforcing shall be $1\frac{1}{2}$ " to 2" in diameter, inclusive. Holes shall be filled with water for a minimum of two hours immediately before grouting, at which time all excess water shall be removed. The grouted area around the reinforcing bars shall be kept wet from the time of initial set for a minimum of twelve hours, with burlap or other suitable means. The grout shall be used in accordance with the manufacturer's recommendations and shall be included on the Department's list of Approved Non-shrink Grouts. No separate payment will be made for drilling and grouting, and all such work will be considered incidental to Item 503.13, Reinforcing Steel, Placing.
- The exact location and details of the construction joint for the Expansion Device Modifications, where required for stage construction, shall be approved by the Engineer.
- The existing sign supports on 1-95 N.B. over 1-395 shall be modified as shown on the plans. All work for modifying the sign supports will be considered incidental to Item 502.42.
- Field welding of expansion joints adjacent to in-place seals shall be done in such a manner to protect the seals from damage.
- Compression seals shall be plugged at all ends in a manner approved by the Engineer.



REMOVAL OF EXISTING CURB PLATES



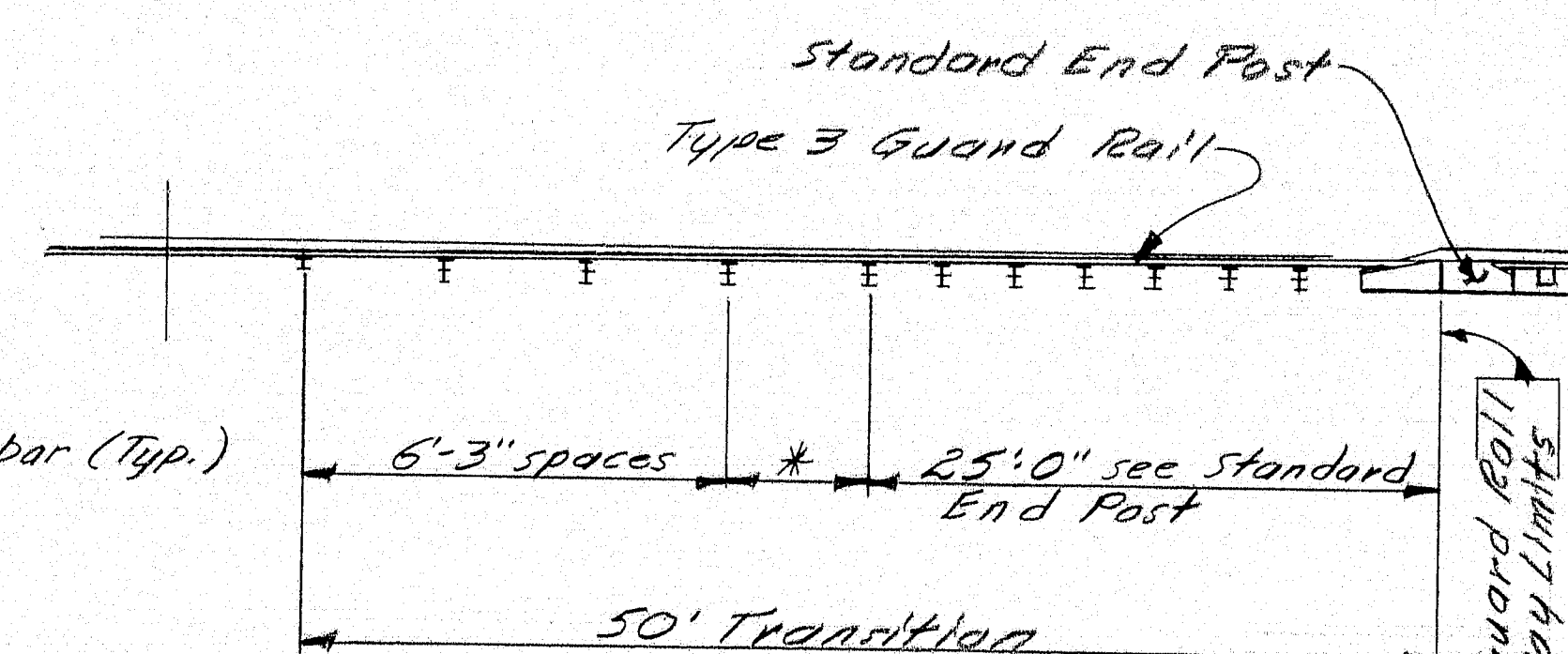
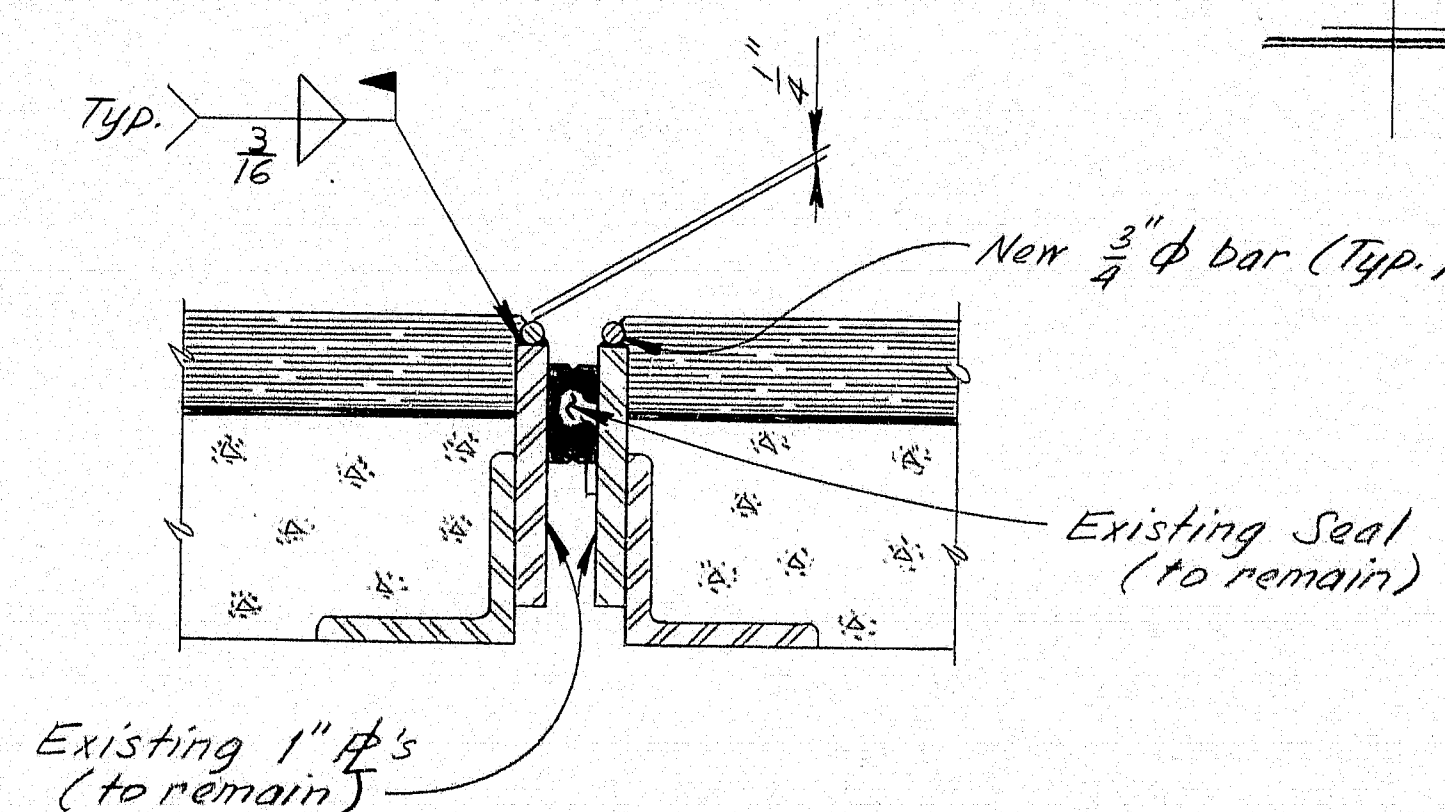
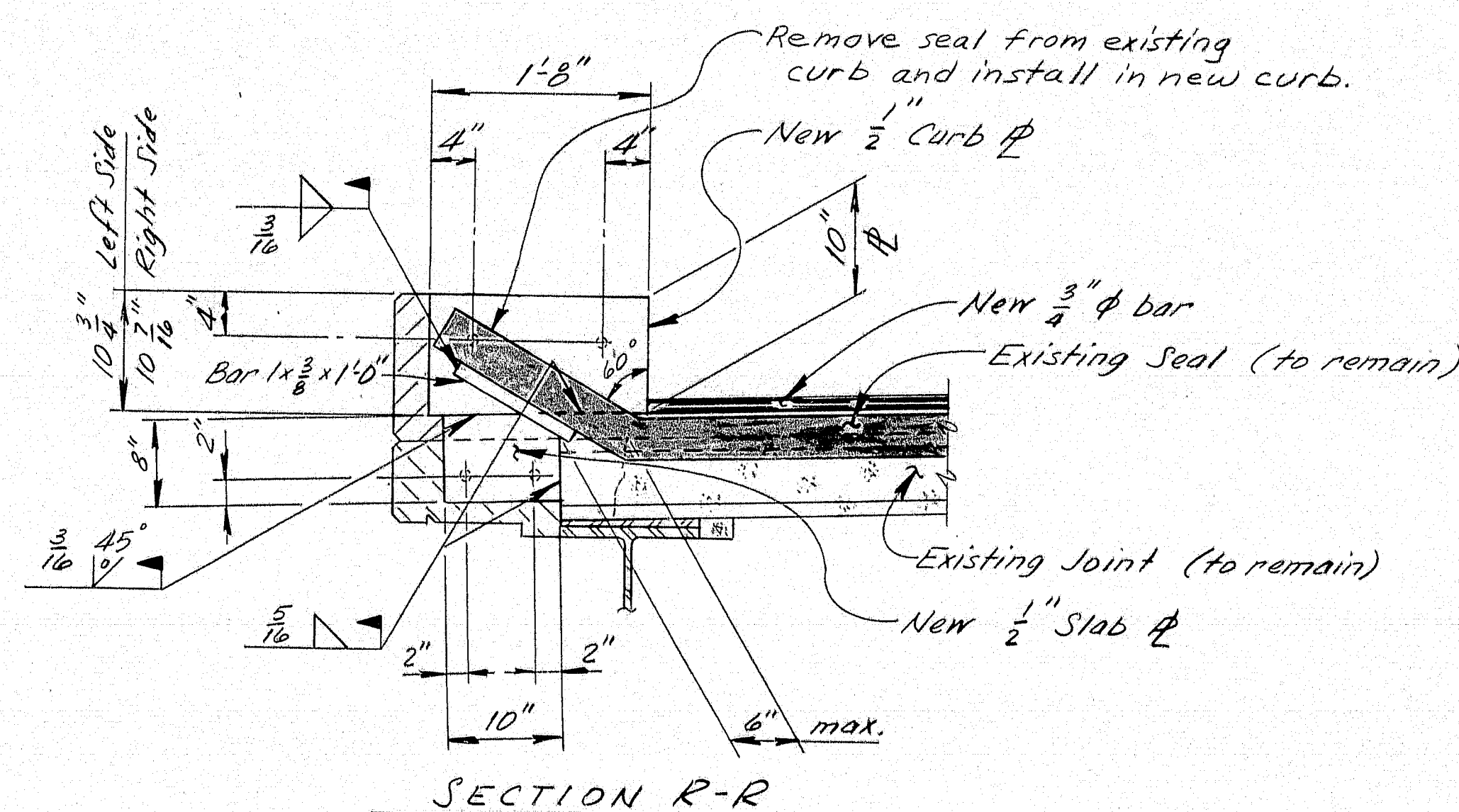
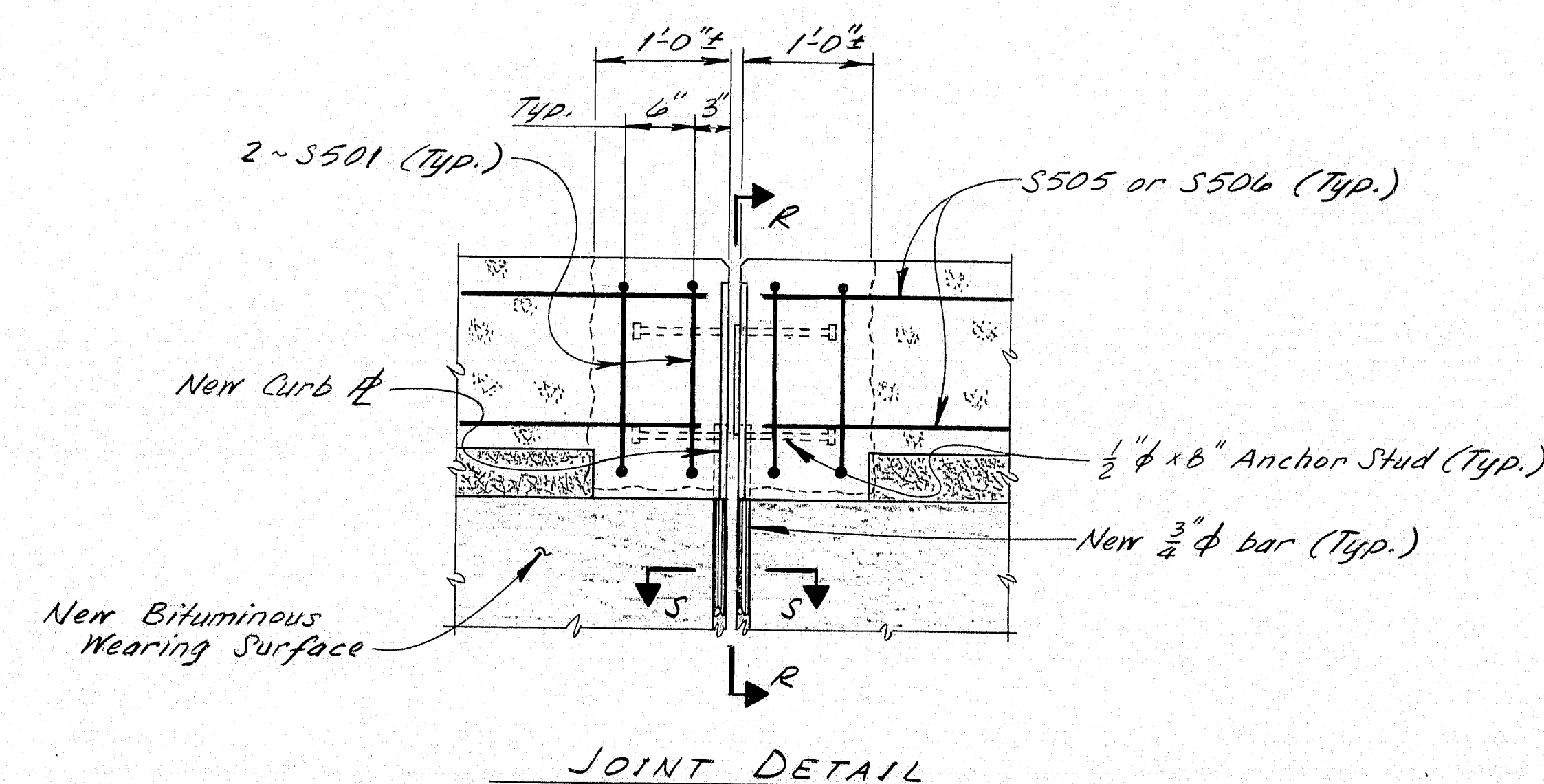
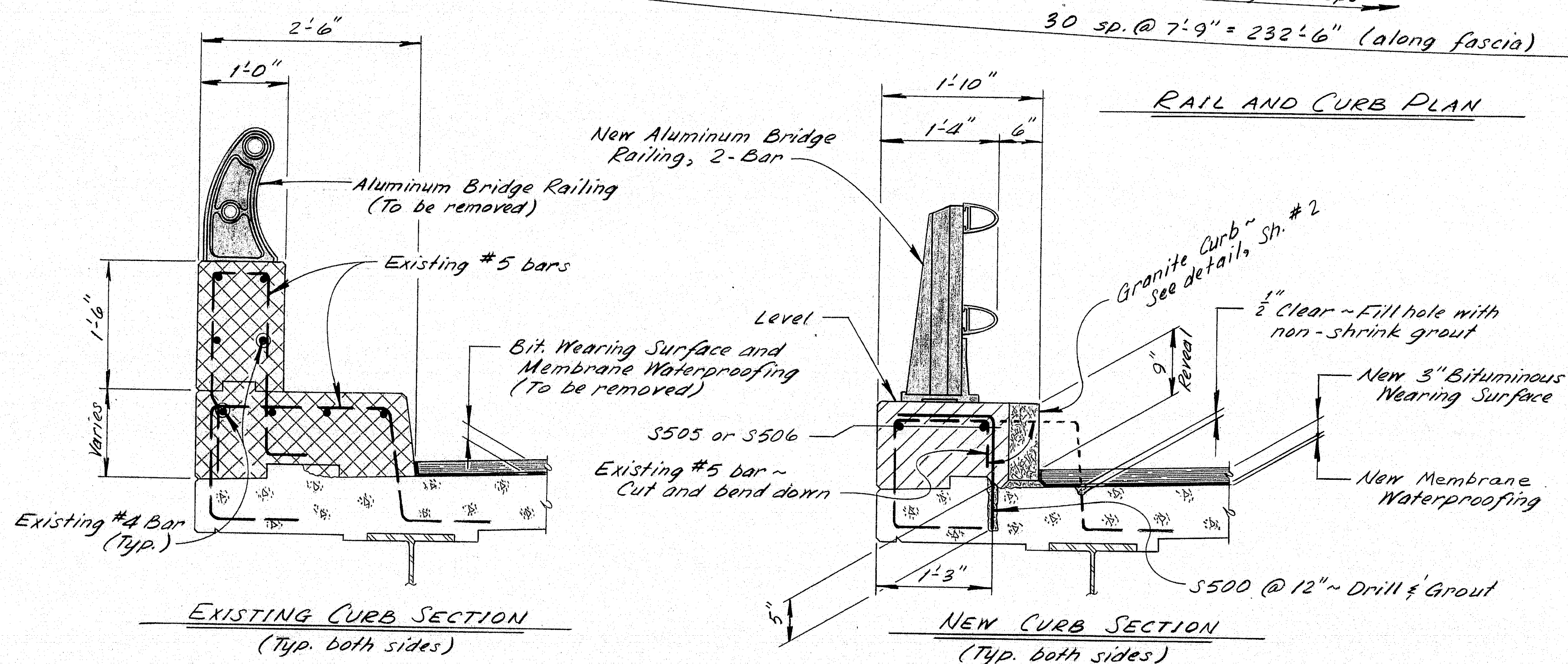
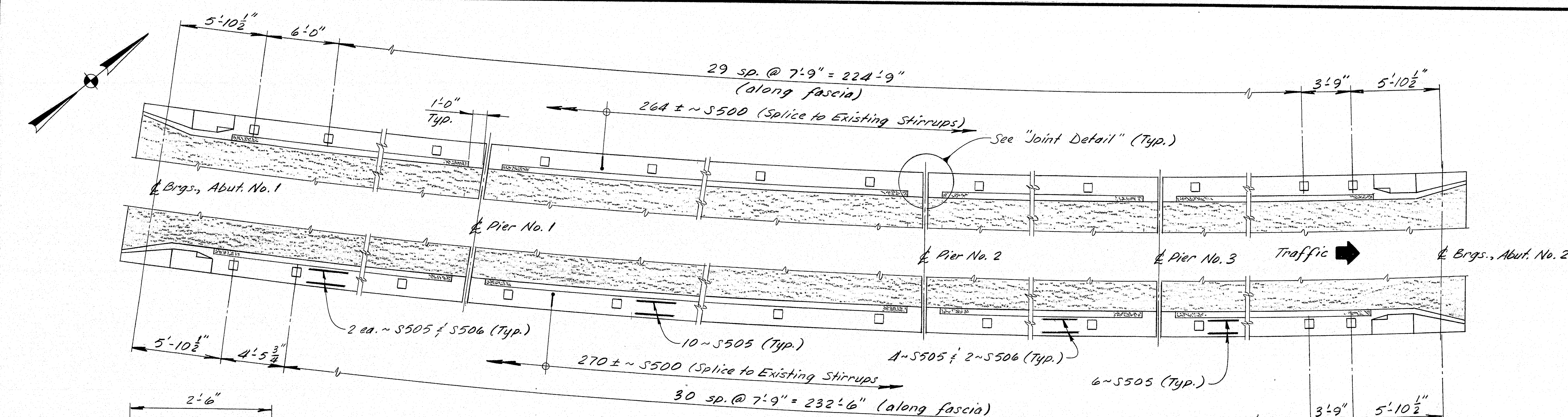
GRANITE DETAIL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
INTERSTATE 95 NORTHBOUND
OVER
STILLWATER AVENUE
BROADWAY
INTERSTATE 395
MCR AND PERRY ROAD
BANGOR
ESTIMATED QUANTITIES & CONST. NOTES
SHEET 2 OF 12 AUGUSTA, MAINE
IR-95-B(130) BANGOR

R90-161

F.R.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-95-8(130)175	20	34

BRIDGE RAILING EXPANSION JOINTS	
Pier No. 1 = 1" @ 45°	
Pier No. 2 = 1 1/8" @ 45°	
Pier No. 3 = 1 1/8" @ 45°	
See BD 114-B1 for exact locations	



* = Modify Panel one or two spaces as required to match Rail. 3'-1 1/8" min. to 6'-3" max. each

REFERENCES

For Symbols, see Sheet No. 1

For Removal of Existing Curb Plates, see Sheet No. 2

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95
NORTHBOUND
OVER
M.C.R.R. & PERRY ROAD
BANGOR

BRIDGE DETAILS

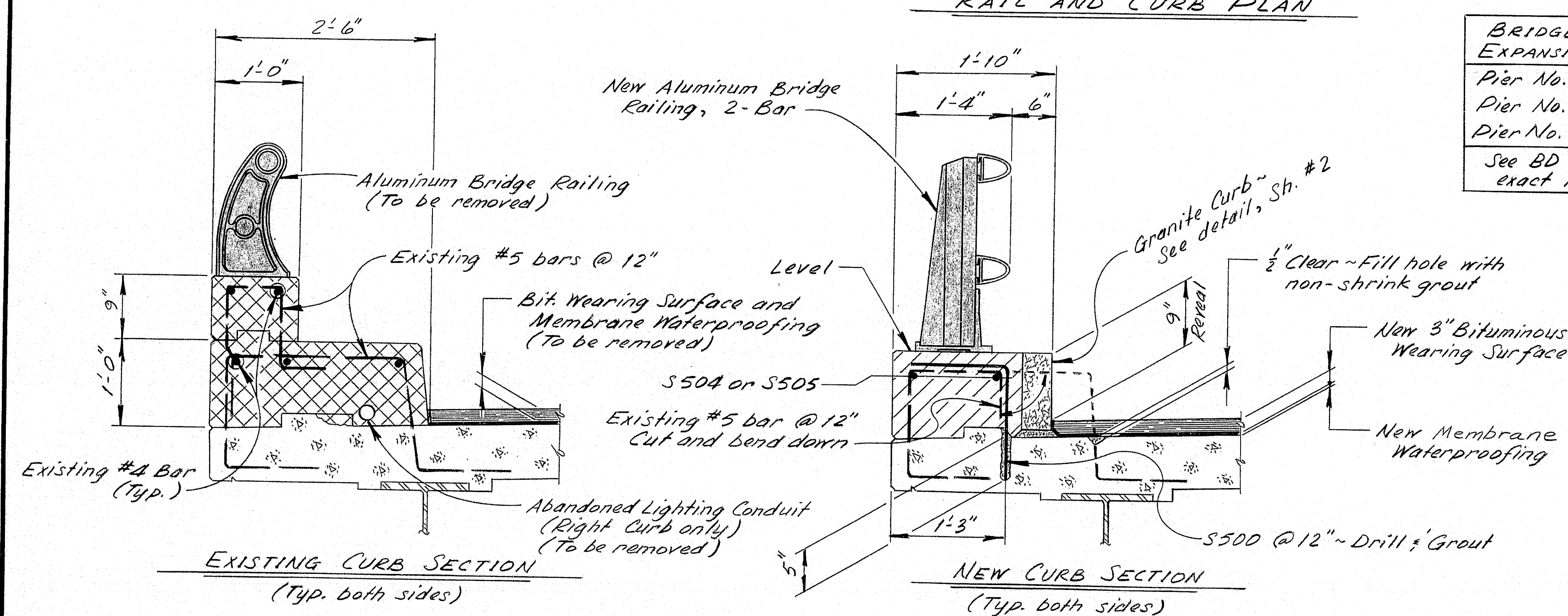
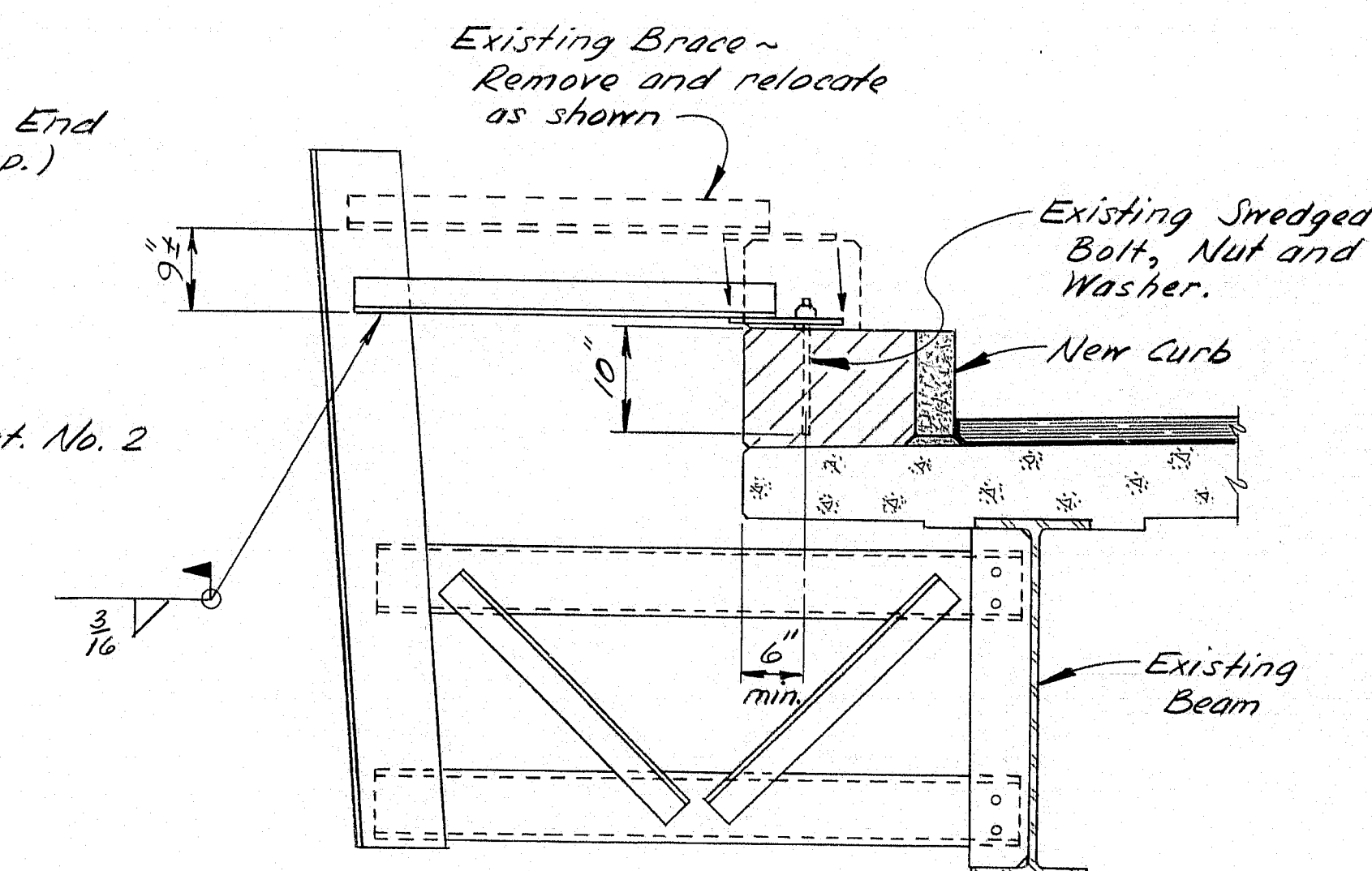
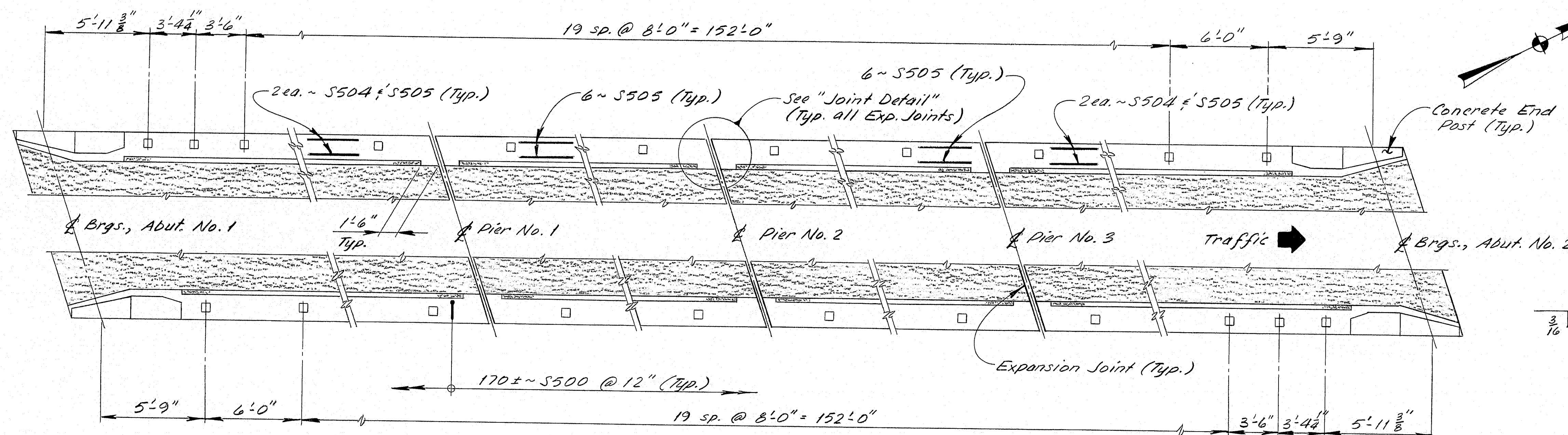
R90-162

SHEET 3 OF 12 AUGUSTA, MAINE

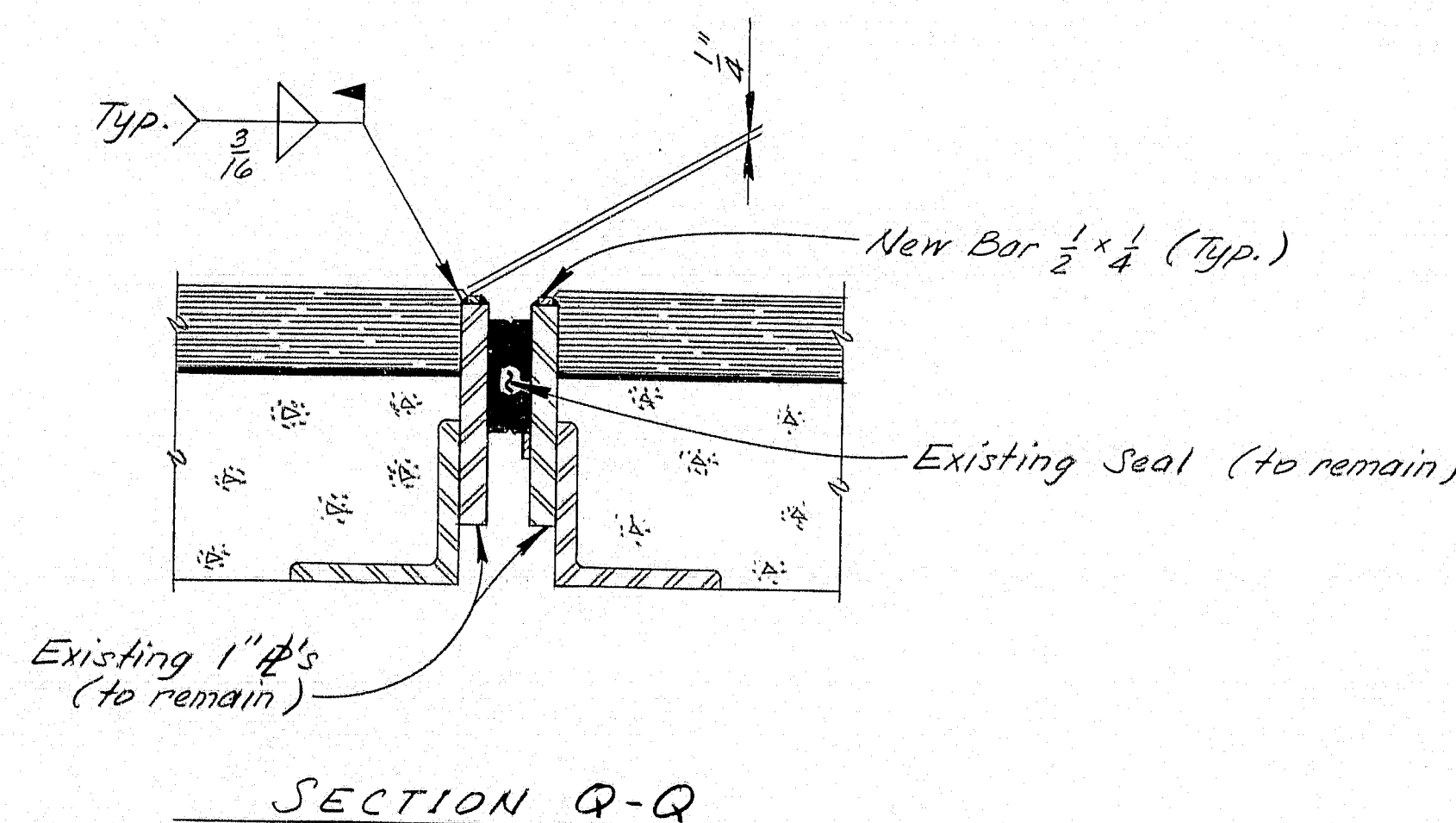
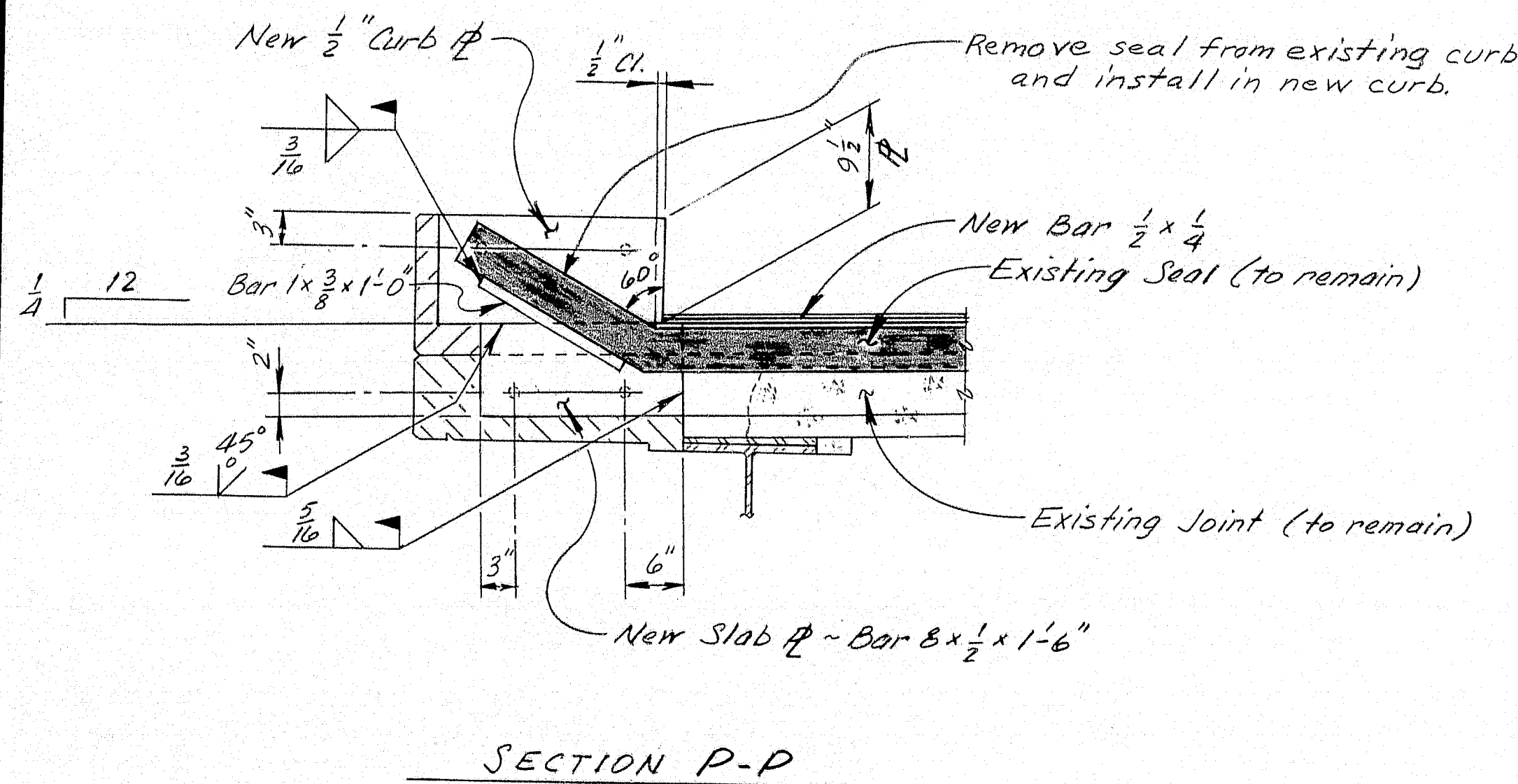
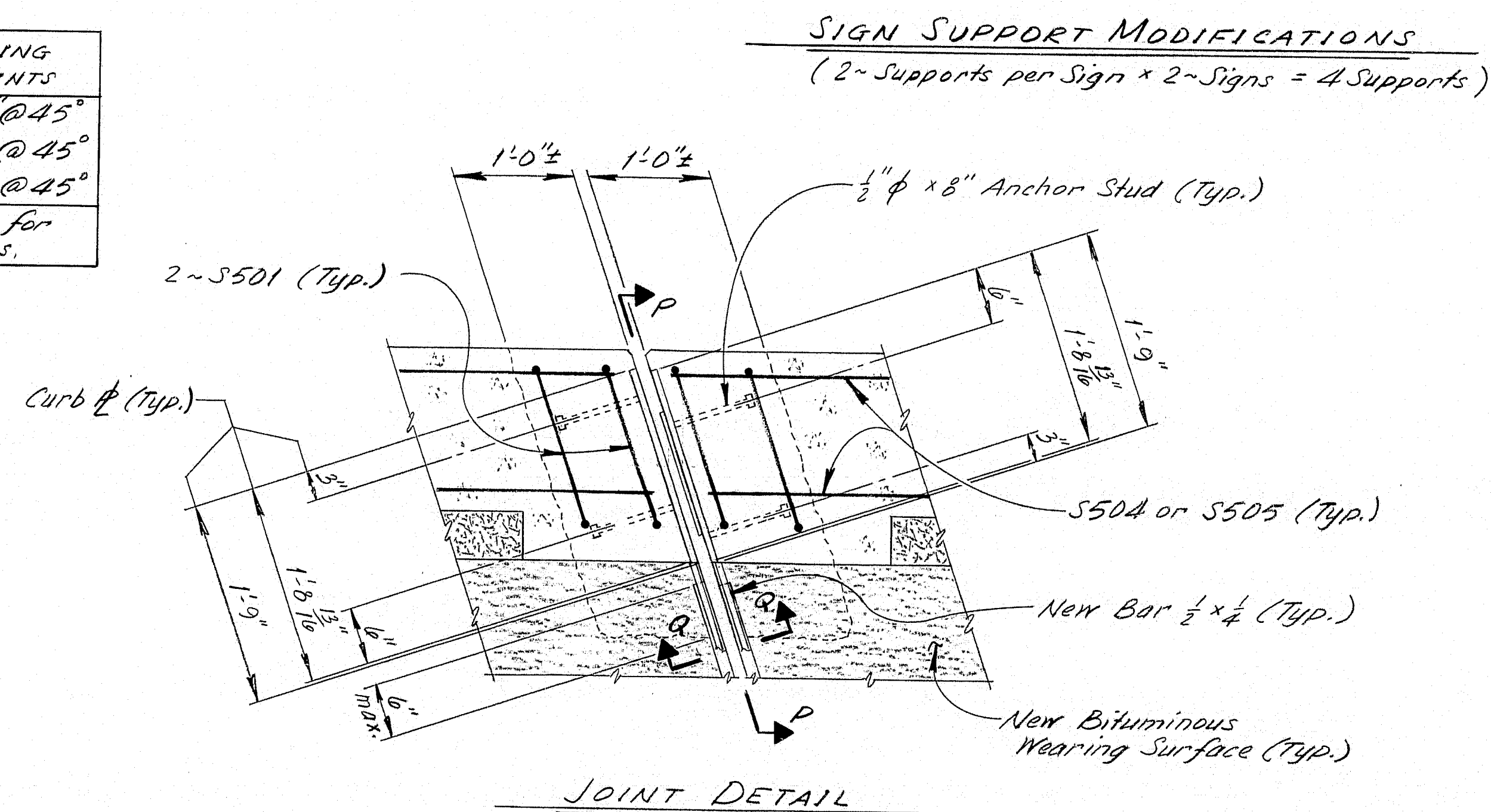
PROJECT DESIGN ENGINEER	DATE
BY D. D. D.	May-95
DESIGN - DETAILED	CHECKED
REVISIONS	57-83
PLANS	FIELD CHANGES

BRUNING 44132 45710

F.R.M.A. REQ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	2R-85-8(30)175	21	34



BRIDGE RAILING EXPANSION JOINTS	
Pier No. 1 =	1 1/4" @ 45°
Pier No. 2 =	3/4" @ 45°
Pier No. 3 =	1 1/4" @ 45°
See BD 114-81 for exact locations.	



REFERENCES

For Symbols, see Sheet No. 1
For Removal of Existing Curb Plates, see Sheet No. 2

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95
NORTHBOUND
OVER
INTERSTATE 395
BANGOR

BRIDGE DETAILS

SHEET 4 OF 12 AUGUSTA, MAINE
B(130) BANGOR

R90-163

PROJECT DESIGN ENGINEER	DATE
BY [Signature]	10/23/85
DESIGN - DETAIL	CHECKED
13-000	5/2/83
PLANS	REVISIONS
	FIELD CHANGES

BRUNING 44.132.45710

BRIDGE RAILING
EXPANSION JOINTS
Pier No. 1 = 1" @ 45°
Pier No. 2 = 1½" @ 45°
See BD 114-81 for
exact locations.

Median, I-95

Brgs., Abut. No. 1

Pier No. 1

Existing Median

Pier No. 2

Brgs., Abut. No. 2

Traffic →

Deck of Span 2's Elected in 1983-2014

Concrete End Post (Typ.)

4~S505

10~S505

See "Joint Detail"

5'-5 $\frac{3}{4}$ "

5'-8 $\frac{1}{2}$ "

3 SP @ 7'-0" = 21'-0"

11 SP @ 8'-0" = 88'-0"

3 SP @ 7'-0" = 21'-0"

5'-6"

5'-10"

1'-6" TYP.

RAIL AND CURB PLAN

EXISTING CURB SECTION
(N.B. side only)

NEW CURB SECTION

Plumb

Median, 1-95

Finished Grade

Top of Slab

60°

Horiz.

Retention Bar 1 x $\frac{3}{8}$ x 6" (One side only)

Compression Seal

Limits of Weld on this retention bar only

Note: See Pier No. 2 "Plan" view, Sheet No. 6, for further Median & details.

SECTION X-X

REFERENCES

For Symbols, see Sheet No. 1
For Removal of Existing Curb
Plates, see Sheet No. 2

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95
NORTHBOUND
OVER
BROADWAY
BANGOR

BRIDGE DETAILS
PIER No. 1 EXPANSION JOINT

SHEET 5 OF 12 AUGUSTA, MAINE
(130) BANGOR

R90-164

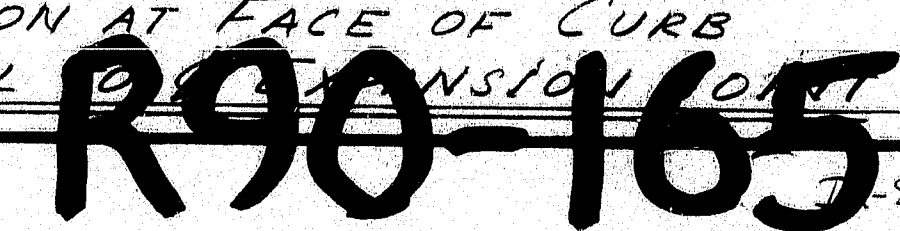
1. _____ The seals to be furnished shall have a minimum Movement Rating of:
2. _____ The seal shall be approved by the Engineer prior to installation.
3. _____ The joint opening will vary depending on the dimensions of the seal selected by the Contractor. The joint opening shall be set according to the opening shown on the approved shop detail drawings.
4. _____ The Compression Seal Adjustment Chart shows the adjustment necessary to set the joint opening shown on the shop detail drawings for temperatures other than 45°F. Adjustment is to be measured parallel to the centerline of construction.

For Symbols, see Sheet No. 1
For Removal of Existing Curb
Plates, see Sheet No. 2

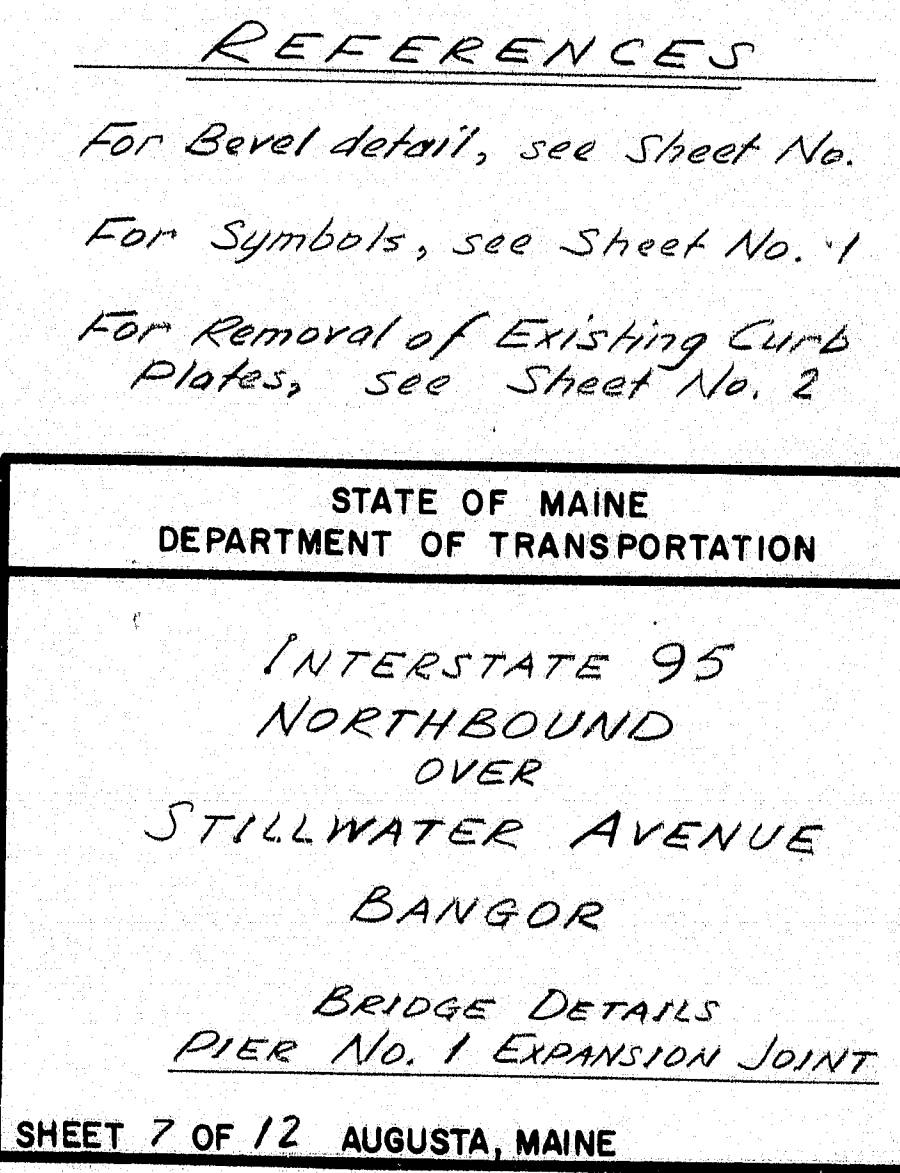
INTERSTATE 95
NORTHBOUND
OVER
BROADWAY
BANGOR

PIER NO. 2 EXPANSION JOINT

SHEET 6 OF 12 AUGUSTA, MAINE



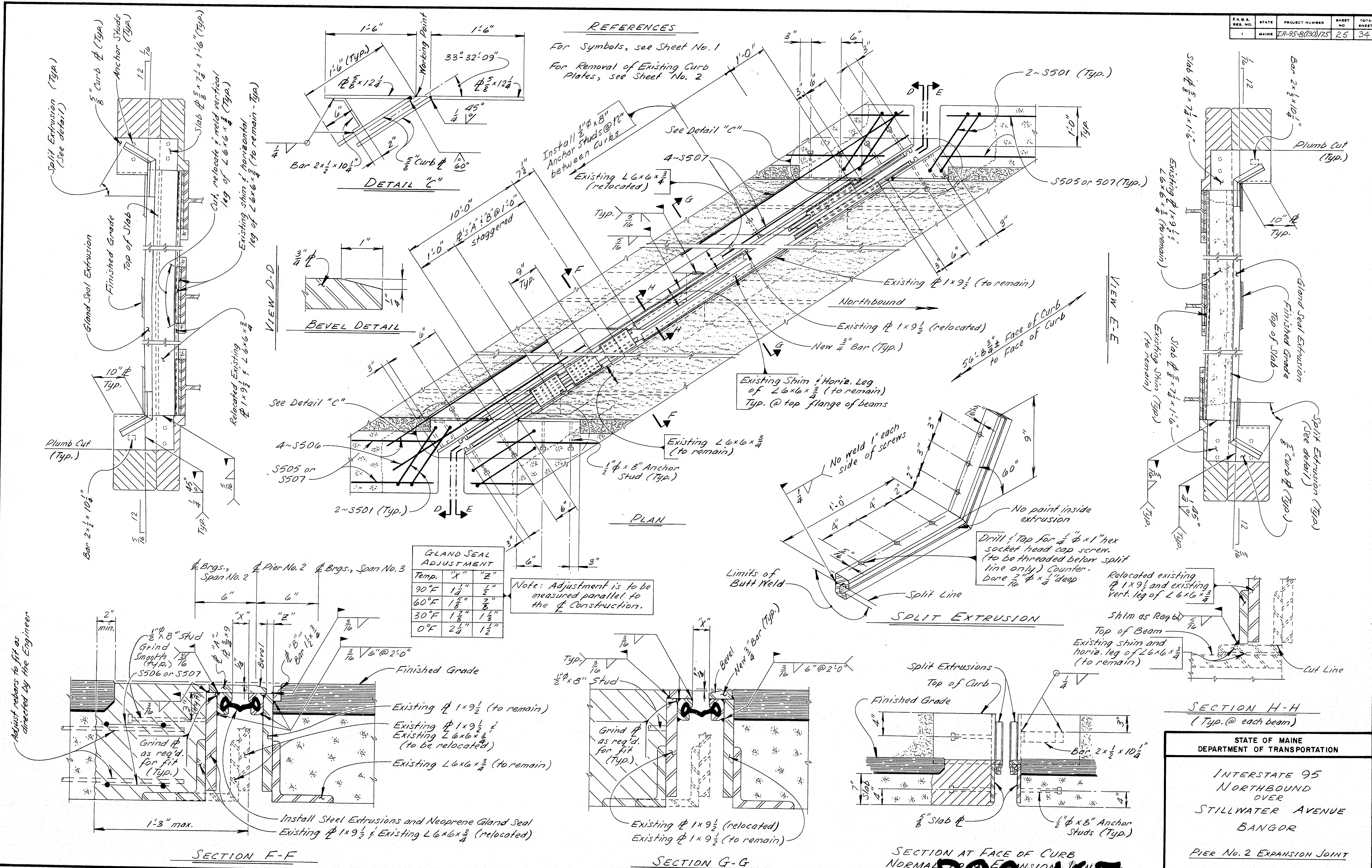
BRIDGE RAILING
EXPANSION JOINTS
Pier No. 1 = $1\frac{1}{4}" @ 45^\circ$
Pier No. 2 = $1\frac{5}{8}" @ 45^\circ$
See BD 114-81 for
exact locations



~~R90-166~~

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED	D. Danner	Apr. 83
CHECKED	Burd	5/83
REVISIONS		
PREP. D. GUY HARRIS		

BRITAIN 44-132 15710

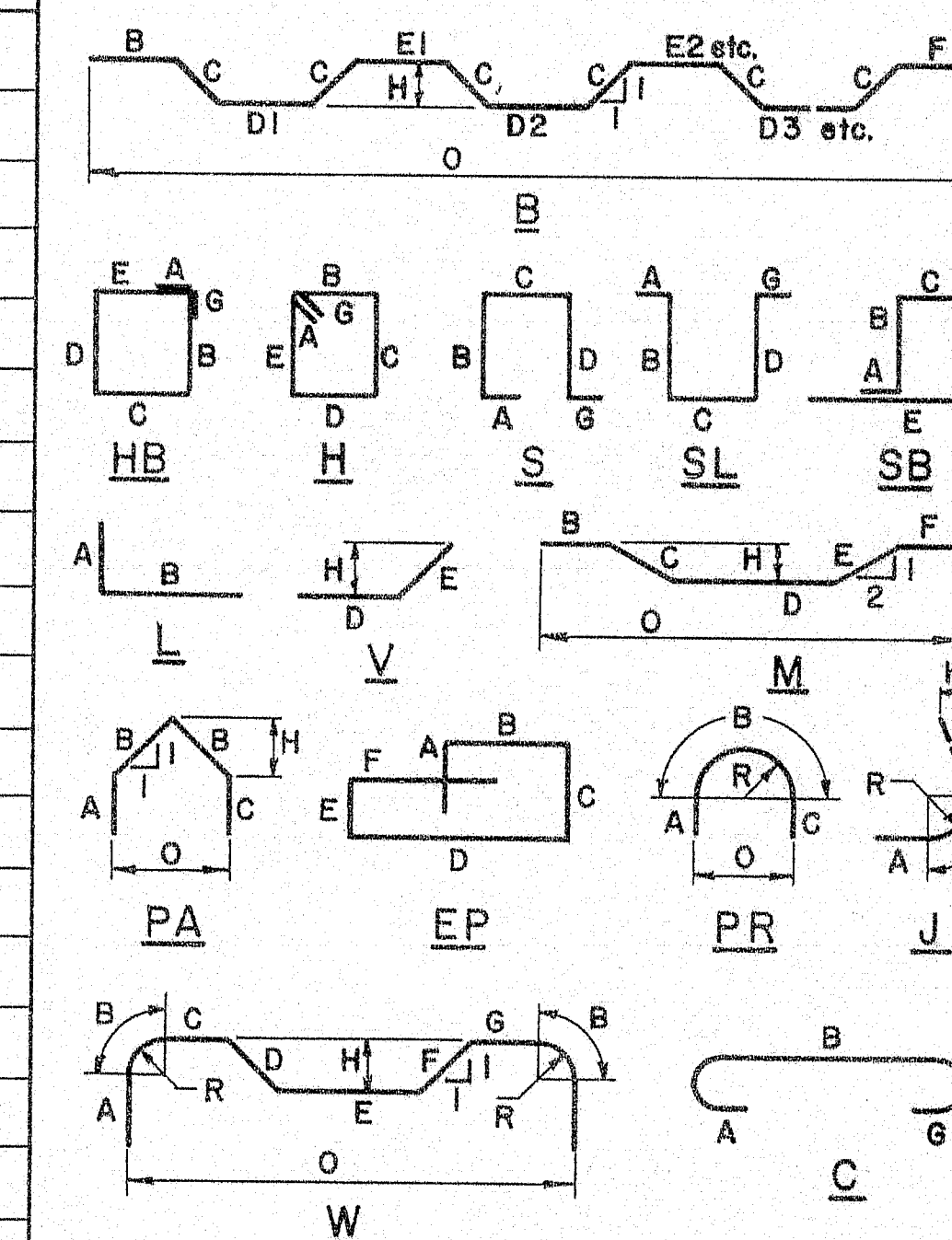


R90-167

IR-95-8(130) BANGOR

REINFORCING STEEL SCHEDULE																									
STRAIGHT BARS										BENT BARS															
MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION			
MCRR & PERRY ROAD												MCRR & PERRY ROAD													
S505	44	20'-0"	Curbs					S500	534	2'-5"	L	1'-3"	1'-2"	-	-	-	-	-	-	-	-	-	Curbs		
S506	8	30'-0"	Curbs					S501	24	4'-0"	S	0	1'-3"	1'-6"	1'-3"	-	-	0	-	-	-	-	Curbs		
INTERSTATE 395												INTERSTATE 395													
S504	8	15'-0"	Curbs					S500	340	2'-5"	L	1'-3"	1'-2"	-	-	-	-	-	-	-	-	-	Curbs		
S505	32	20'-0"	Curbs					S501	24	4'-1"	S	0	1'-3"	1'-7"	1'-3"	-	-	0	-	-	-	-	Curbs		
BROADWAY												BROADWAY													
S505	18	20'-0"	Curbs					S501	8	4'-3"	S	0	1'-3"	1'-9"	1'-3"	-	-	0	-	-	-	-	Curbs		
S506	8	30'-0"	Expansion Joint																						
STILLWATER AVE.												STILLWATER AVE.													
S505	8	20'-0"	Curbs					S500	520	2'-5"	L	1'-3"	1'-2"	-	-	-	-	-	-	-	-	-	Curbs		
S506	4	30'-0"	Exp. Joints					S501	16	4'-4"	S	0	1'-3"	1'-10"	1'-3"	-	-	0	-	-	-	-	Curbs		
S507	24	40'-0"	Curbs & Exp. Joints																						
END POSTS												END POSTS													
EP401	112	1'-10"	Dowels	<p>Note: Quantities are given for a total of 14 End Posts - 2 each for I-95 over MCRR, 1-395 and Stillwater Ave., and 2 for I-95 over Broadway</p>				EP402	56	4'-9"	S	0	2'-1"	7"	2'-1"	-	-	0	-	-	-	-	-	Horizontal	
EP405	56	1'-5"	Vertical					EP403	56	4'-8"	H	4"	1'-0"	1'-0"	1'-0"	1'-0"	-	-	4"	-	-	-	-	-	Horizontal
								EP404	56	3'-1"	S	0	1'-3"	7"	1'-3"	-	-	0	-	-	-	-	-	-	Vertical
EP508	56	5'-3"	Horizontal					EP408	42	4'-3"	S	0	1'-10"	7"	1'-10"	-	-	0	-	-	-	-	-	-	Vertical
								EP409	28	4'-2"	S	0	1'-10"	6"	1'-10"	-	-	0	-	-	-	-	Vertical		
								EP410	14	4'-6"	S	0	1'-10"	10"	1'-10"	-	-	0	-	-	-	-	Vertical		
								EP501	56	5'-3"	V	-	-	-	3'-0"	2'-3"	-	-	4"	-	-	-	Horizontal		
								EP502	42	4'-11"	S	0	1'-11"	7"	1'-11"	-	-	6"	-	-	-	-	Vertical		
								EP503	28	4'-10"	S	0	1'-11"	6"	1'-11"	-	-	6"	-	-	-	-	Vertical		
								EP504	14	6'-5"	H	5"	1'-11"	10"	1'-11"	10"	-	5"	-	-	-	-	Vertical		

TYPE-BENDING DIAGRAMS



All dimensions are out to out of reinf. bar

Bending details and hooks shall conform to the recommendations of ACI Standard 315-65.

Reinforcing Bar: ASTM A615 Grade 60

GENERAL NOTES

1. First digit(s) following the letter of the Mark indicates size of reinf. bar.
Mark (A 502) bar size - #5
Mark (P 1001) bar size - #10
Mark (S 603) bar size - #6
2. Letter of Marks A, P & S locates bars of Abutments, Piers, and Superstructure parts respectively.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95 NORTHBOUND
OVER
STILLWATER AVENUE
BROADWAY
INTERSTATE 395
MCRR AND PERRY ROAD
BANGOR

REINFORCING STEEL SCHEDULE

SHEET 9 OF 12 AUGUSTA, MAINE

5-8(130) BANGOR

R90-168