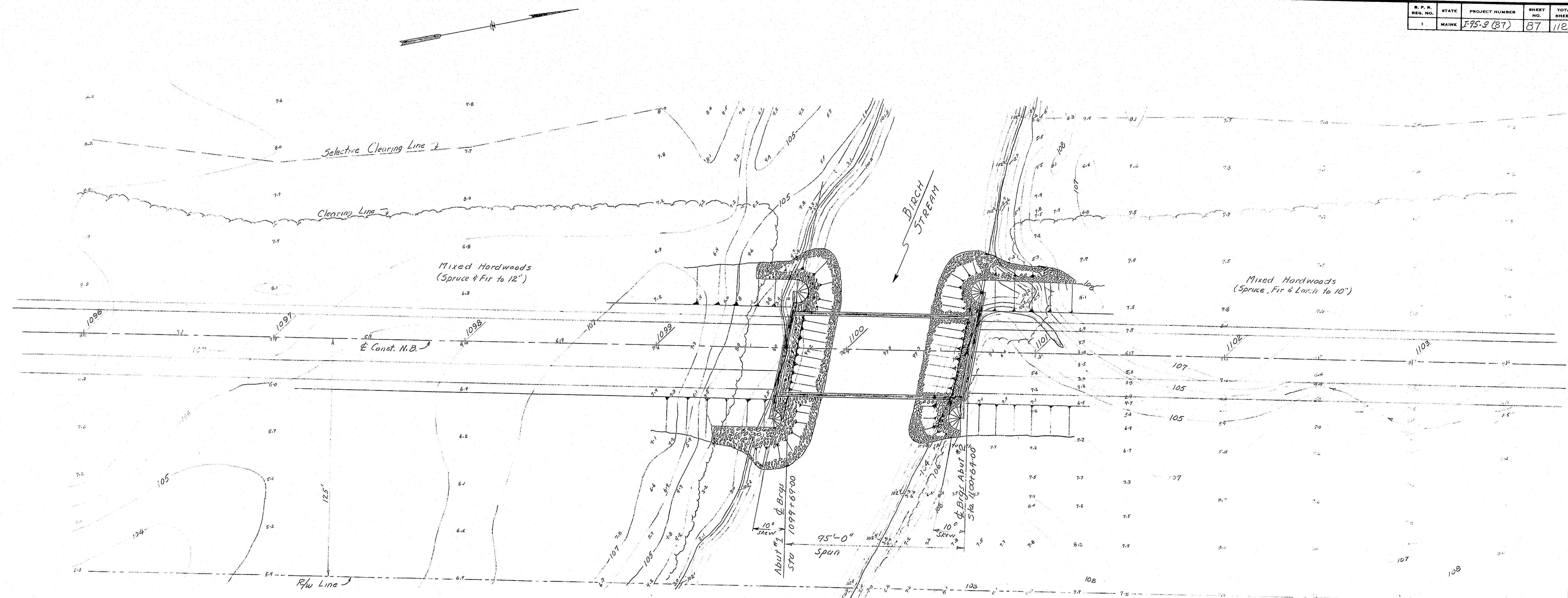
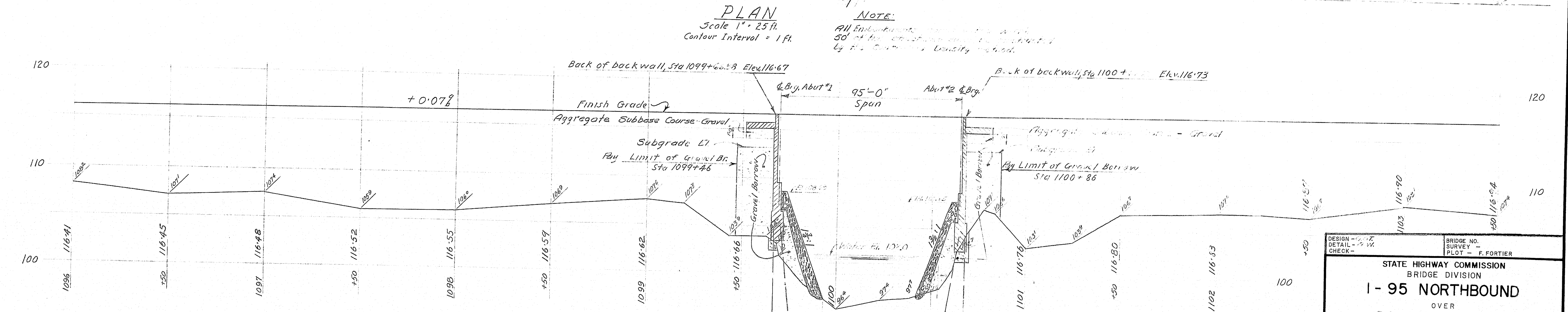


B. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-9 (BT)	87	112



NOTE:
All Endpoints of the bridge are to be located by the Surveying Department.



STATE HIGHWAY COMMISSION
BRIDGE DIVISION
I-95 NORTHBOUND
OVER
BIRCH STREAM
IN THE TOWN OF
ARGYLE
PENOBSCOT COUNTY
- SURVEY -

NOTE - Plotted from Notebooks No. 95/2987, 95/2988, 95/2989

SHEET 2 OF 11 AUGUSTA, MAINE Jan. 1970

"AS BUILT" 1972 H.N.F. Allen Argyle I-95 N.B. 128-19

DESIGN - DETAILED	CHECKED	BY	DATE
9-8-76	9-8-76	R.W.	9-8-76
REVISIONS	FIELD CHANGES		

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(87)	89	112

ABUTMENT NOTES

All reinforcing steel splices and embedments are to be a minimum of 24 bar diameters.

Reinforcing steel to have 3" clear cover unless otherwise noted.

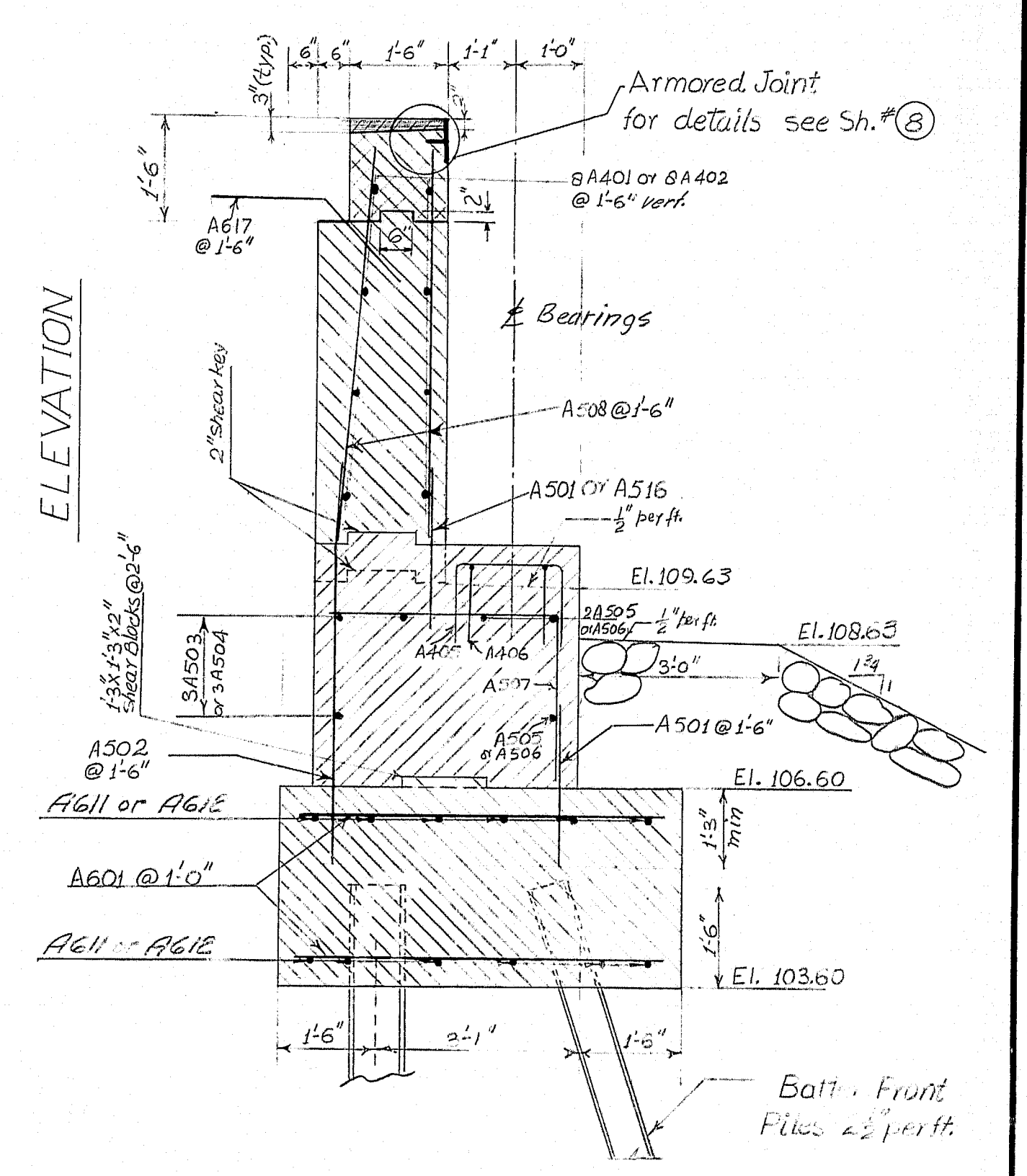
Chamfer all exposed edges of concrete $\frac{1}{4}$ " unless noted.

Place reinforcing steel in bridge seats to clear anchor bolts.

Break bond at vertical contraction joints by a method approved by the Engineer.

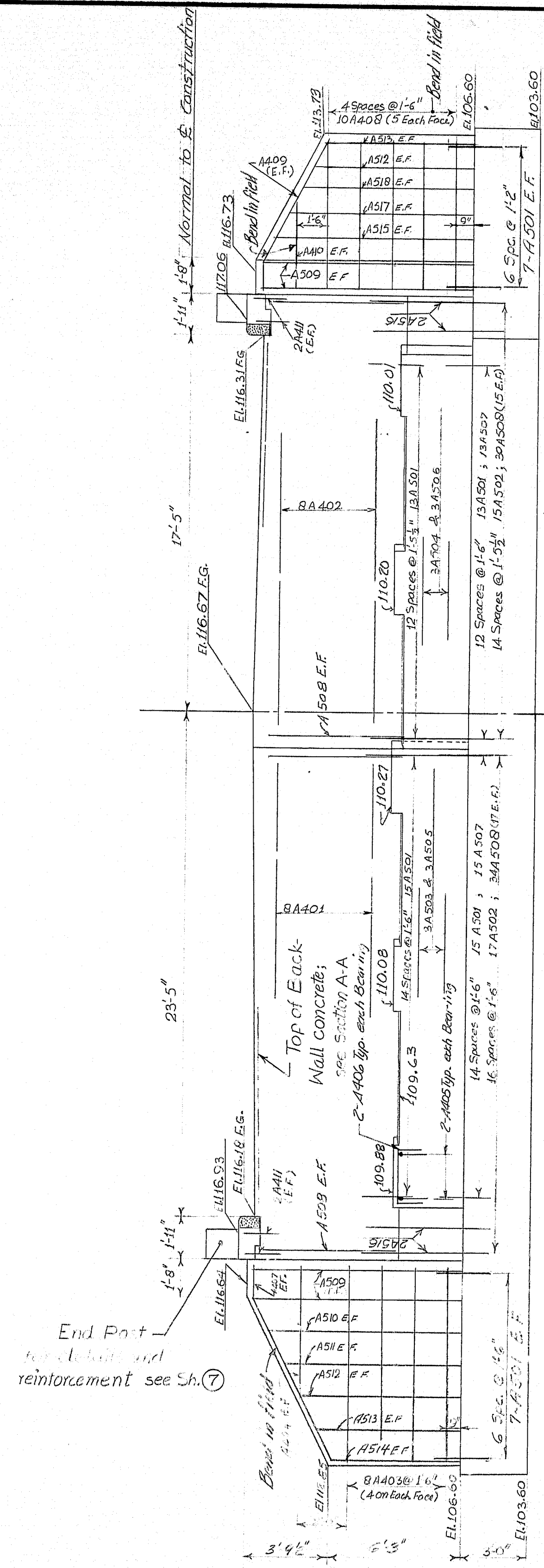
Place concrete in top of backwalls after superstructure concrete is placed. Waterstops are not required in horiz. construction joints in abutment backwalls.

Coat all faces of end posts on abutments with Protective Coating for Concrete Surfaces.



SECTION A-A

ELEVATION

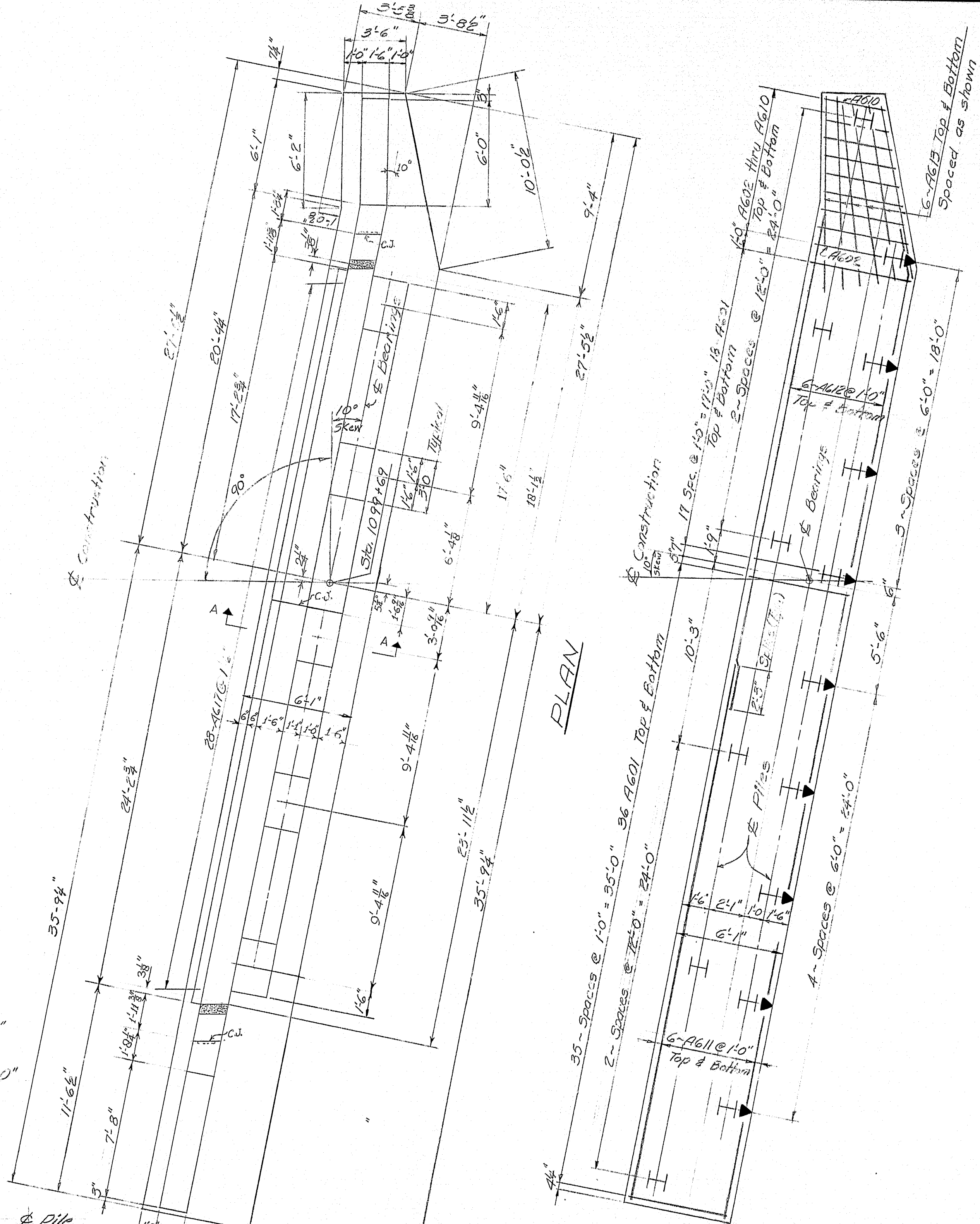


PLAN-FOOTING

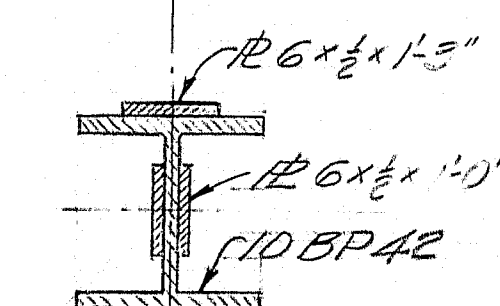
PILE NOTES

All Piles 10BP42
Pointed Reinforced Pile T.D. - 31 required. (Front 28' 1/4")
Batter piles as indicated in direction of arrow.

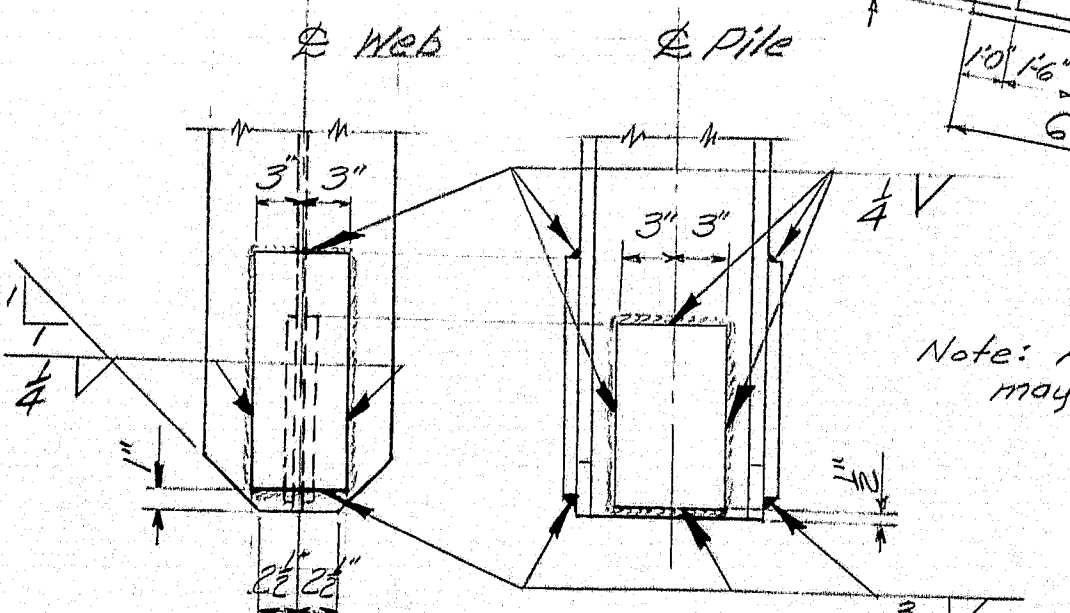
All Piles shall be driven to ledge or practical refusal.
Estimated Driven Lengths { Abut. #1 15-10BP42 35'
 { Abut. #2 16-10BP42 35'
Maximum Load per Pile = 55 Tons



PLAN



TYPICAL SECTION



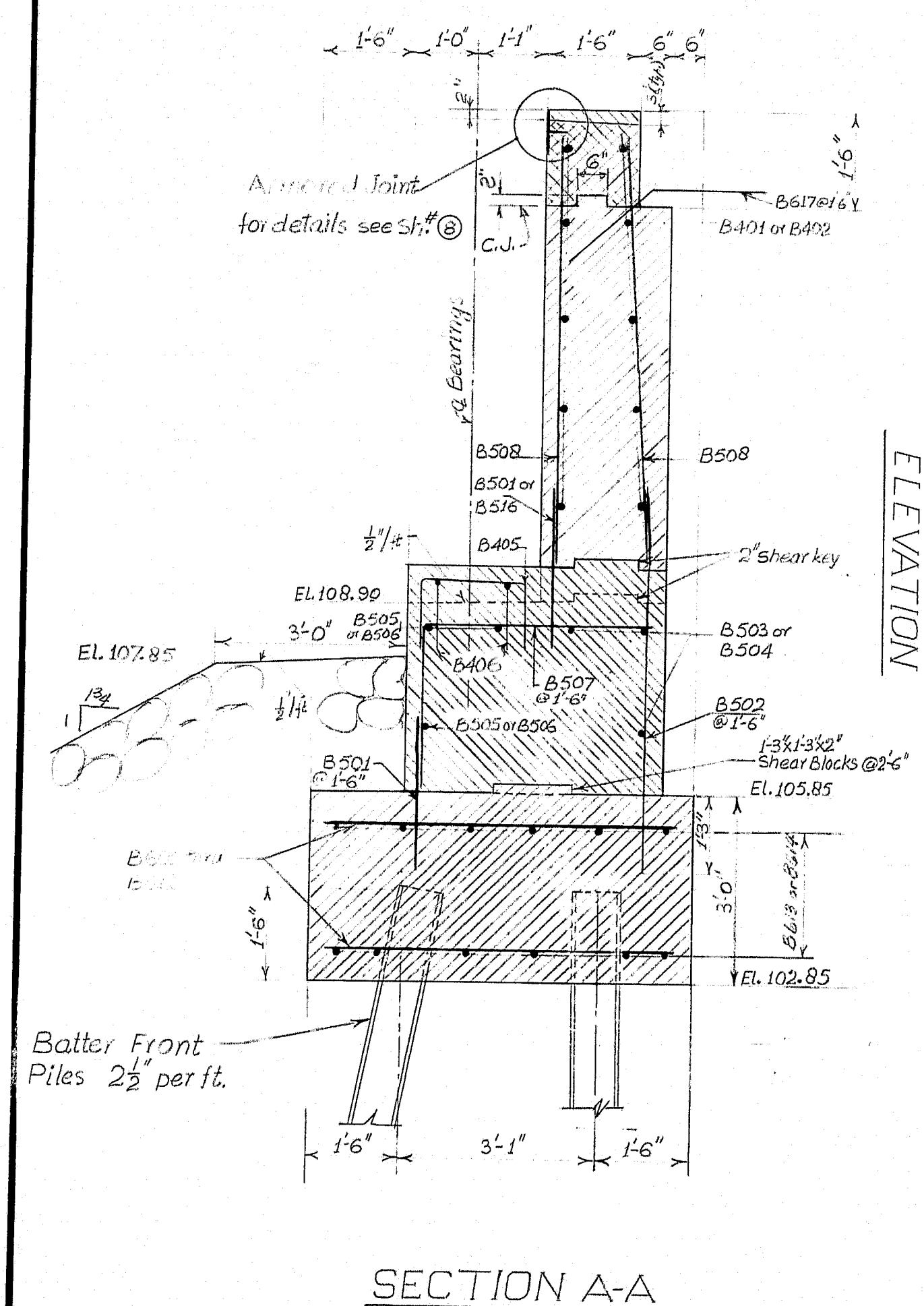
POINTED REINFORCED PILE TIP

Note: A standard manufactured pile tip may be used if approved by the Engineer.

DESIGN-G.D.T. Det. M.M.	BRIDGE NO.
TRACE-CDN 8-27-70	SURVEY PLOT
STATE HIGHWAY COMMISSION	
I-95 N.B. BRIDGE	
OVER	
BIRCH STREAM	
BETWEEN THE TOWNS OF	
ALTON-ARGYLE	
PENOBSCOT COUNTY	
ABUTMENT NO. 1	
SHEET 4 OF 11	AUGUSTA, MAINE

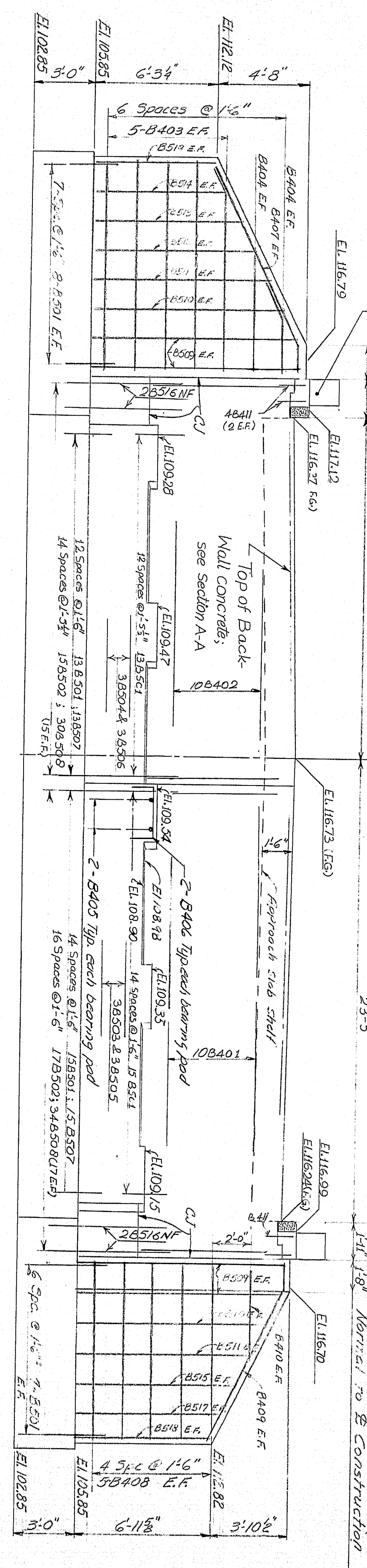
128-22 Alton-Argyle I-95 N.B.

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(87)	90	112

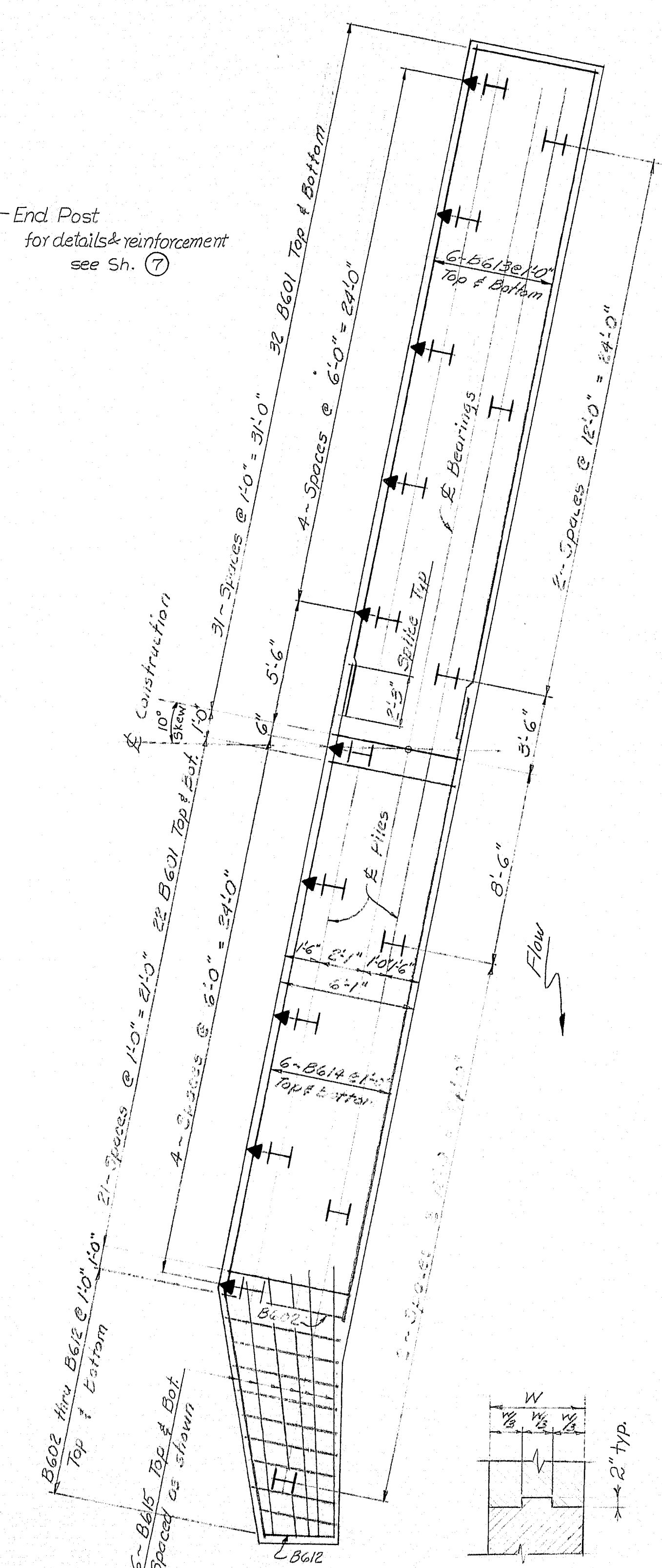


SECTION A-A

ELEVATION

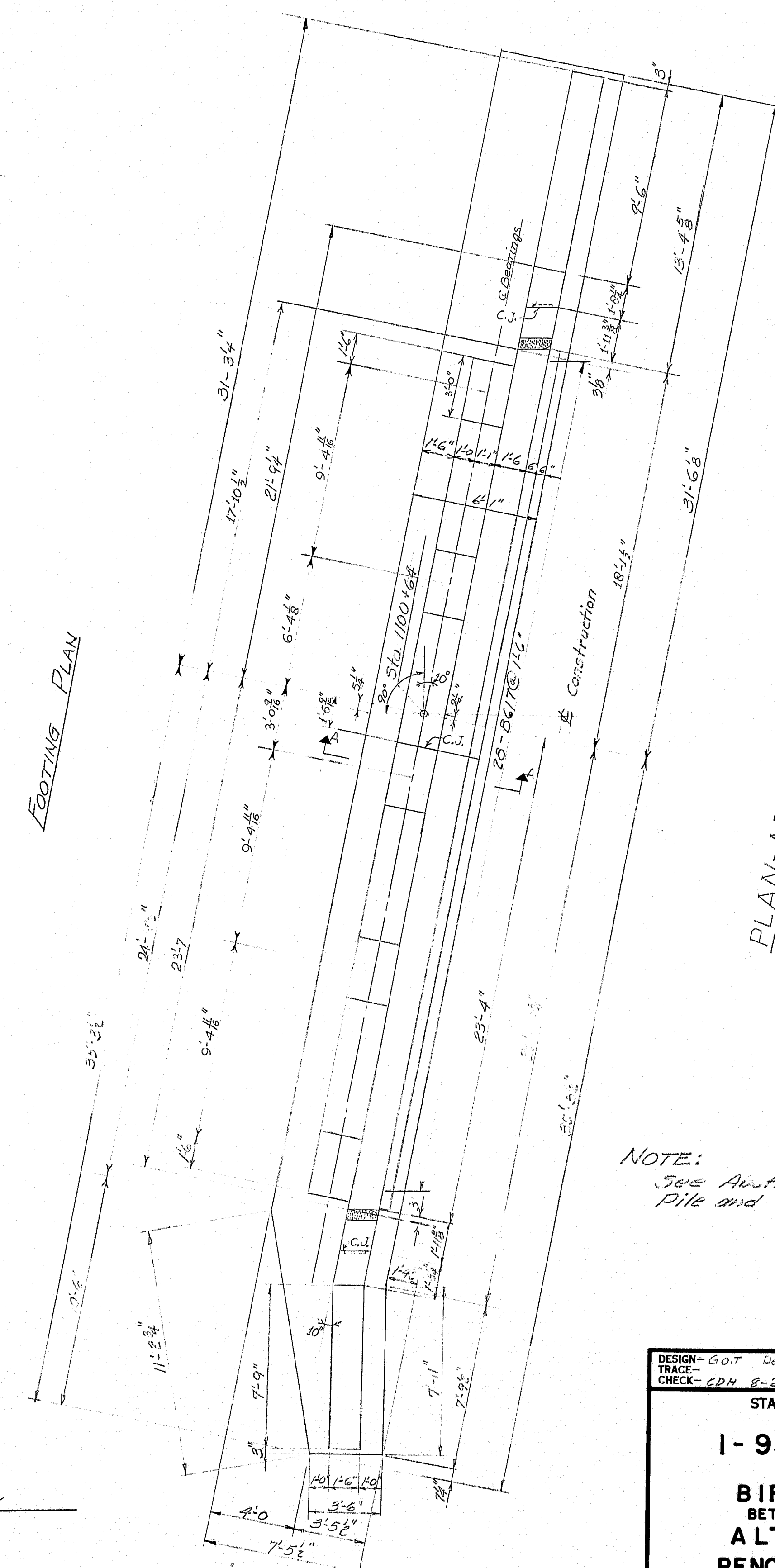


End Post
for details & reinforcement
see Sh. 7

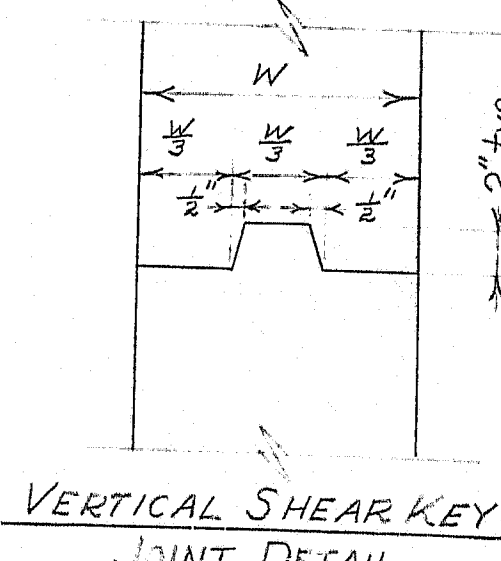


HORIZONTAL SHEAR KEY
JOINT DETAIL

FOOTING PLAN



PLAN-ABUTMENT #2

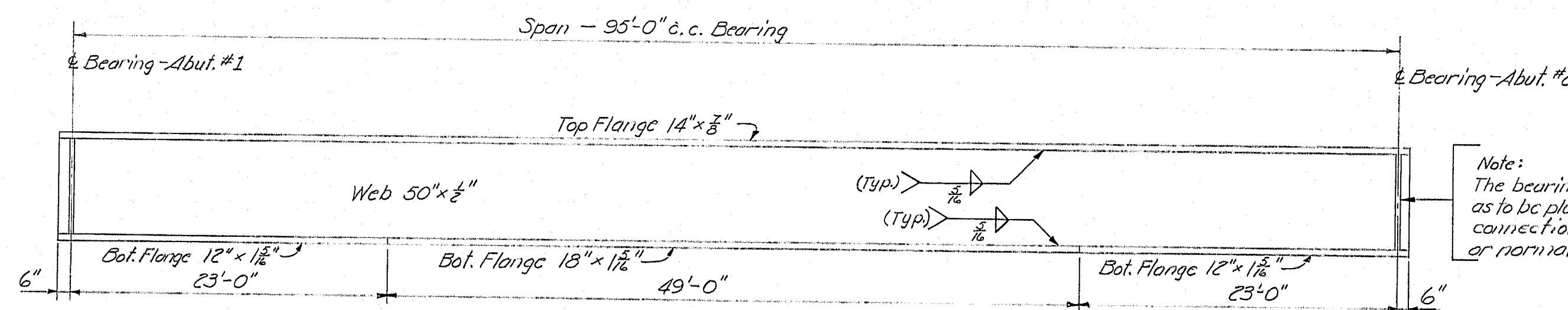
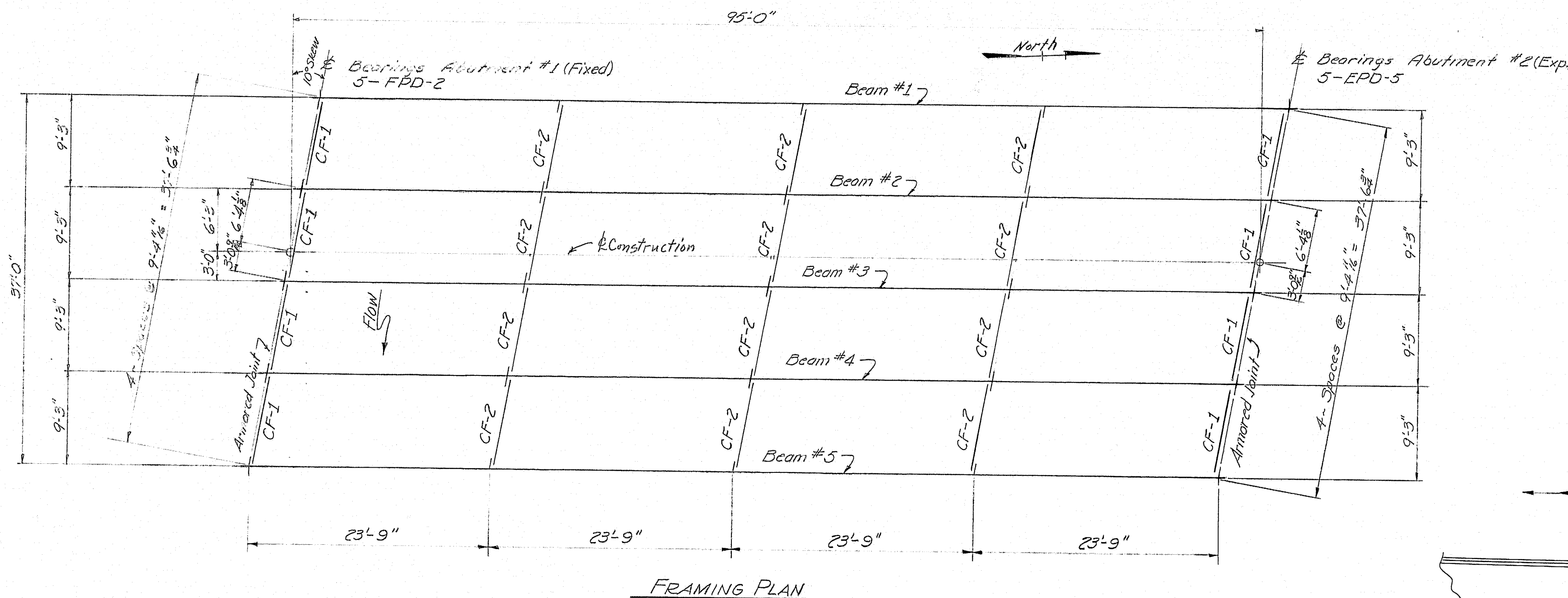


VERTICAL SHEAR KEY
JOINT DETAIL

NOTE:
See Abutment #1, Sh. # 4, For
Pile and Abutment Notes.

DESIGN - G.O.T. D.H. M.V.S.	BRIDGE NO. SURVEY - 8-27-70
STATE HIGHWAY COMMISSION	
I-95 N.B. BRIDGE	
OVER	
BIRCH STREAM	
BETWEEN THE TOWNS OF	
ALTON - ARGYLE	
PENOBSCOT COUNTY	
ABUTMENT NO. 2	
SHEET 5 OF 11 AUGUSTA, MAINE	

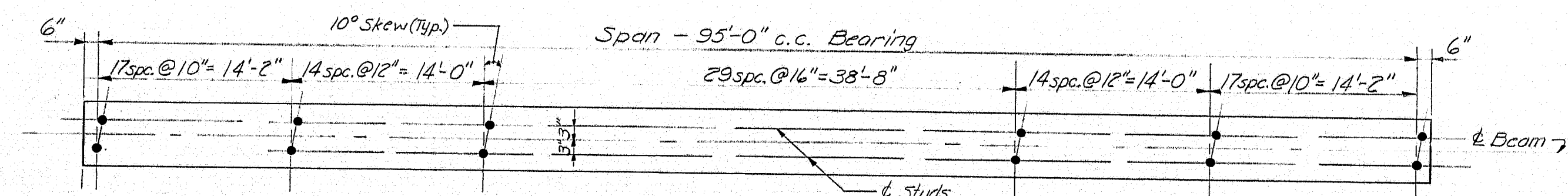
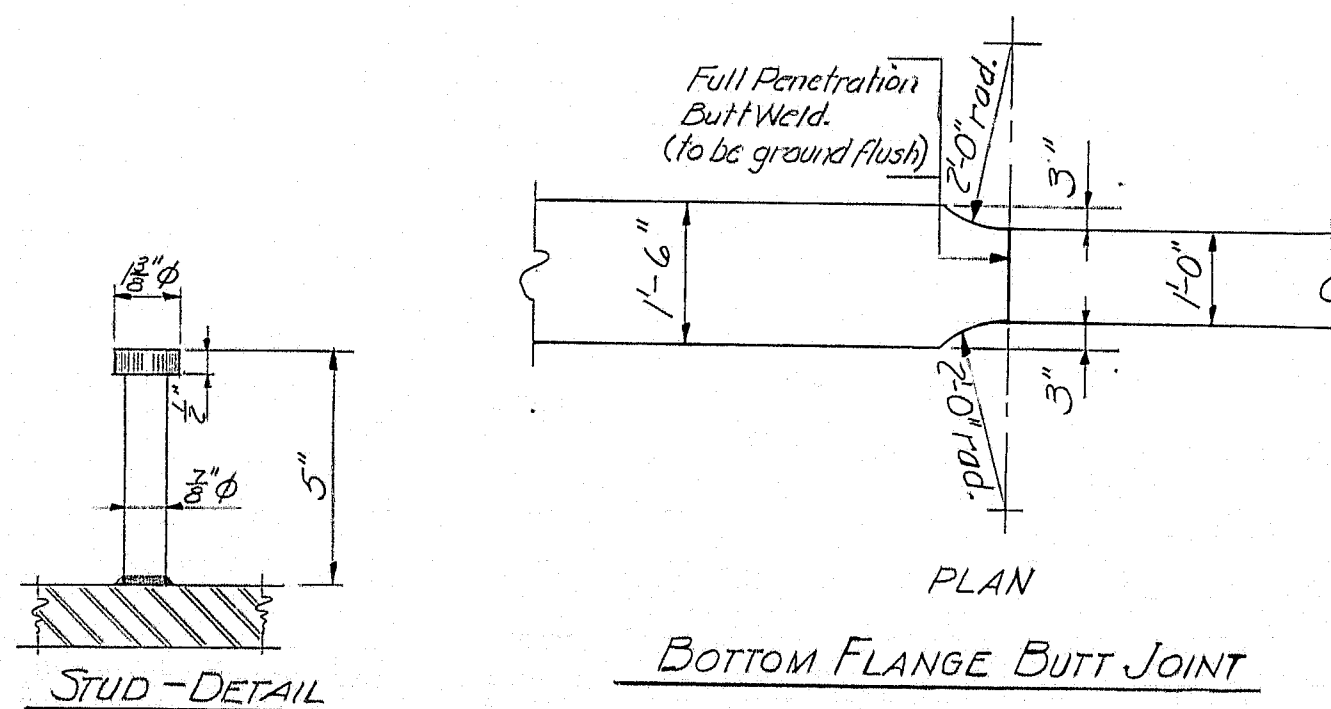
R.F.R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95B(87)	91	112



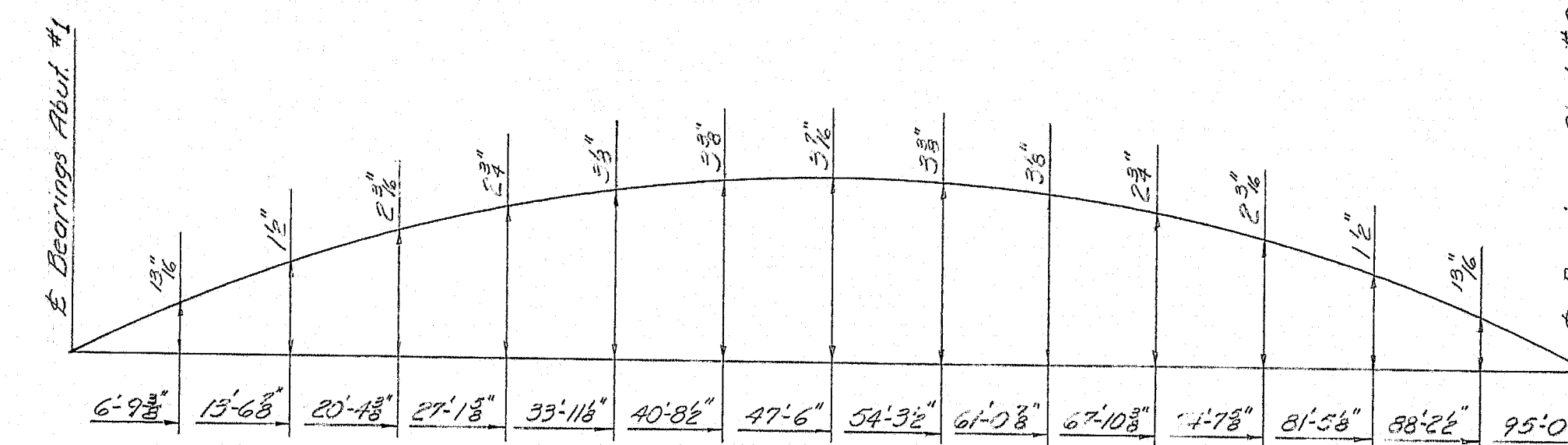
BEAM LAYOUT
All dimensions are horizontal.
For slope of beams see Bottom
of Slew Elevations, Str. #7

GENERAL NOTES

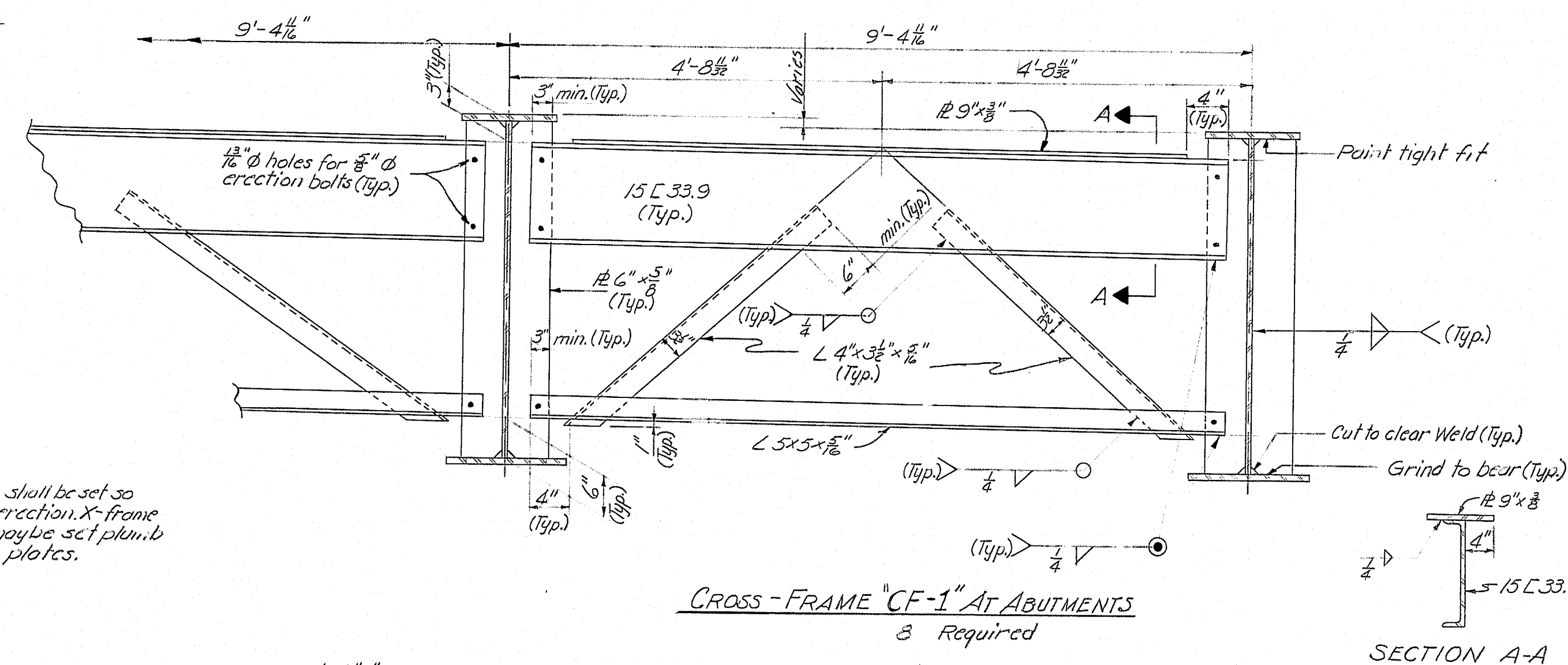
1. After flange to web welds have been completed and before any bearing stiffeners or cross frame connection plates are attached to the beams, shall be inspected, and shall be in accordance with American Welding Society Specifications for Welded Highway and Railway Bridges, D 2.0-69, Art. 300.
2. A maximum of two (2) transverse shop butt weld splices will be permitted to fabricate the web plate. Transverse weld splices shall not be nearer than 1'-0" to a flange splice. Location and details of butt weld shop splices shall be shown on shop detail drawings for approval by the Engineer.



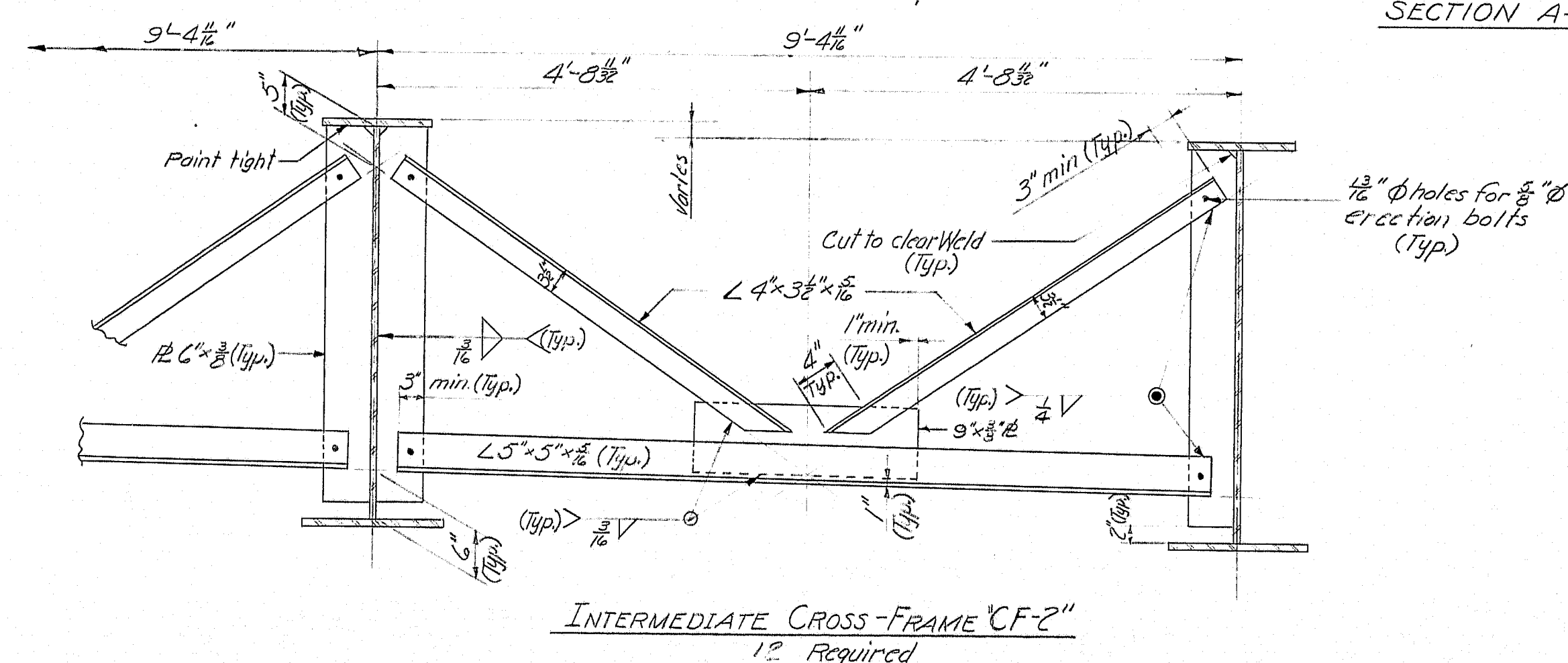
SHEAR CONNECTORS
184 Studs Required each Beam
5 Beams = 920 Studs



CAMBER DIAGRAM
Typical all Girders



CROSS-FRAME "CF-1" AT ABUTMENTS
8 Required



INTERMEDIATE CROSS-FRAME "CF-2"
12 Required

REFERENCES

For Drain details see sheet #11
For Armored Joint details see sheet #8
For Bearing Pedestals see Standard (SD) 100-110

SPECIFICATIONS

(Structural Steel)

Allowable Stresses:
A572 - Fy = 27,000 psi; A36 - Fy = 20,000 psi.
Classification:
Flange, plates, Web Plate, and bearing stiffeners,
A572 - Fy = 27,000 psi
All other steel = A36 unless noted

STATE HIGHWAY COMMISSION

I-95 N.B. BRIDGE

OVER

BIRCH STREAM

BETWEEN THE TOWNS OF

ALTON - ARGYLE

PENOBSCOT COUNTY

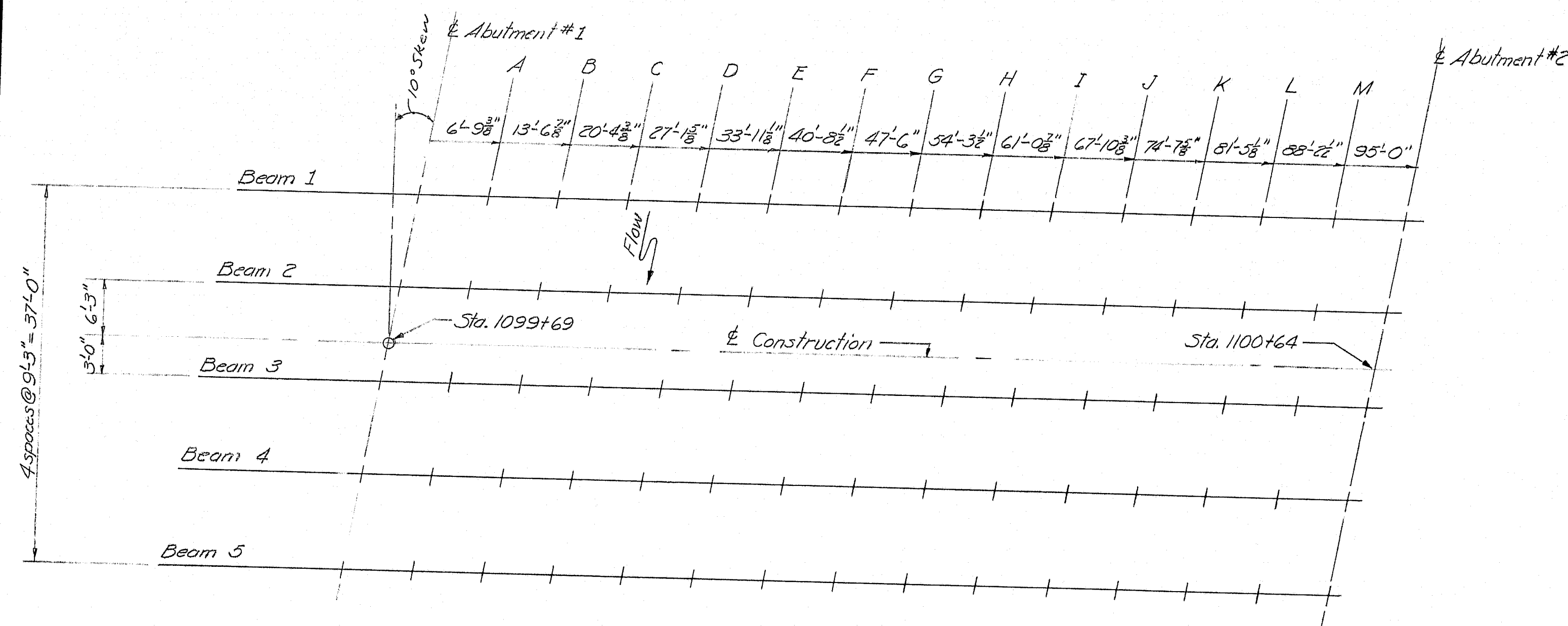
FRAMING PLAN

SHEET 6 OF 11 AUGUSTA, MAINE FEB. 1970

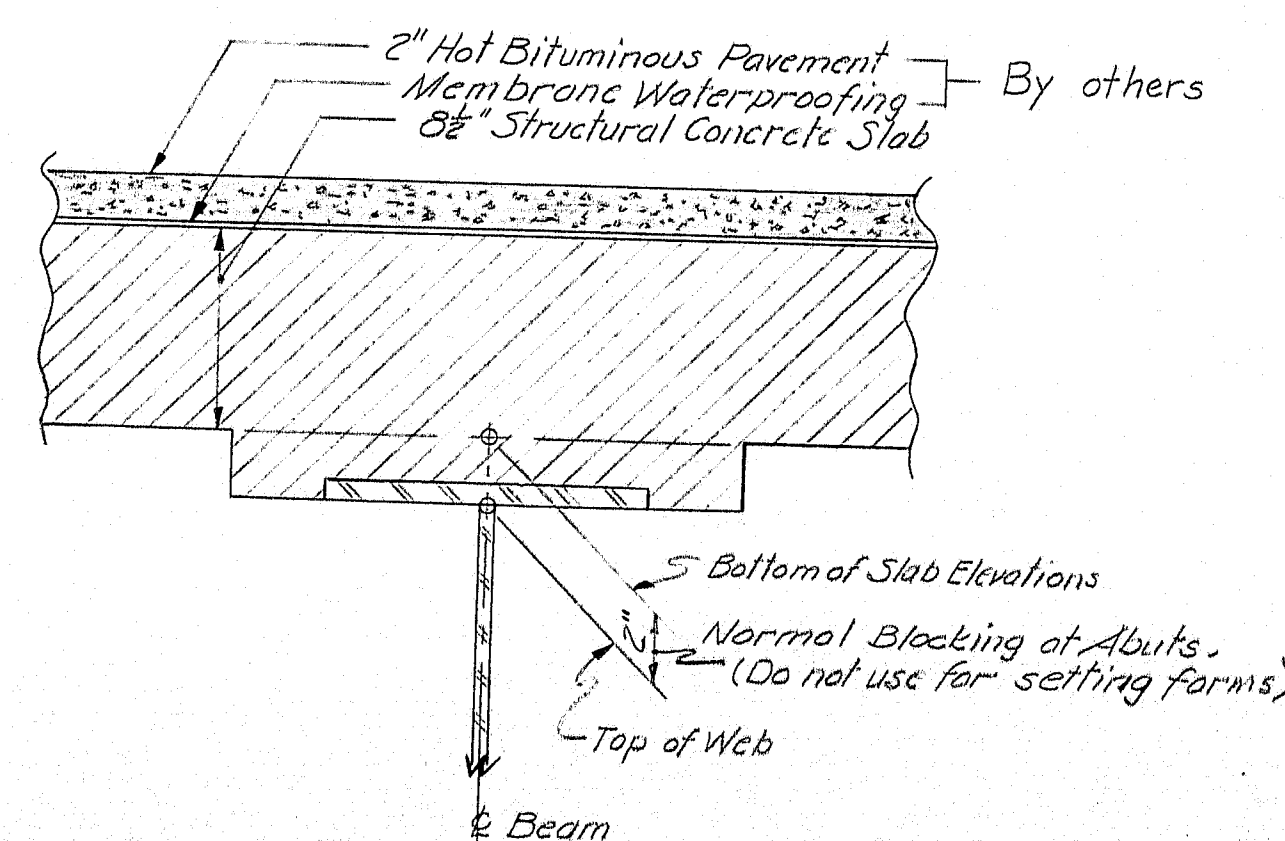
128-24 Alton-Argyle I-95 N.B.

BOTTOM OF SLAB ELEVATIONS															
Beam	Abut. #1	POINTS												Abut. #2	
		A	B	C	D	E	F	G	H	I	J	K	L		M
Beam 1	115.46	115.52	115.57	115.63	115.67	115.70	115.72	115.73	115.73	115.72	115.69	115.66	115.62	115.57	115.52
Beam 2	115.64	115.70	115.76	115.81	115.85	115.89	115.91	115.92	115.92	115.90	115.88	115.85	115.81	115.76	115.71
Beam 3	115.71	115.77	115.83	115.88	115.92	115.95	115.97	115.98	115.98	115.97	115.95	115.92	115.88	115.83	115.78
Beam 4	115.32	115.38	115.43	115.48	115.53	115.57	115.59	115.60	115.60	115.59	115.57	115.53	115.48	115.43	115.38
Beam 5	115.32	115.38	115.44	115.49	115.53	115.57	115.59	115.60	115.60	115.58	115.56	115.53	115.49	115.44	115.39

NOTE:
Elevations shown above are to be used for setting slab forms. Dead load deflections have been considered.

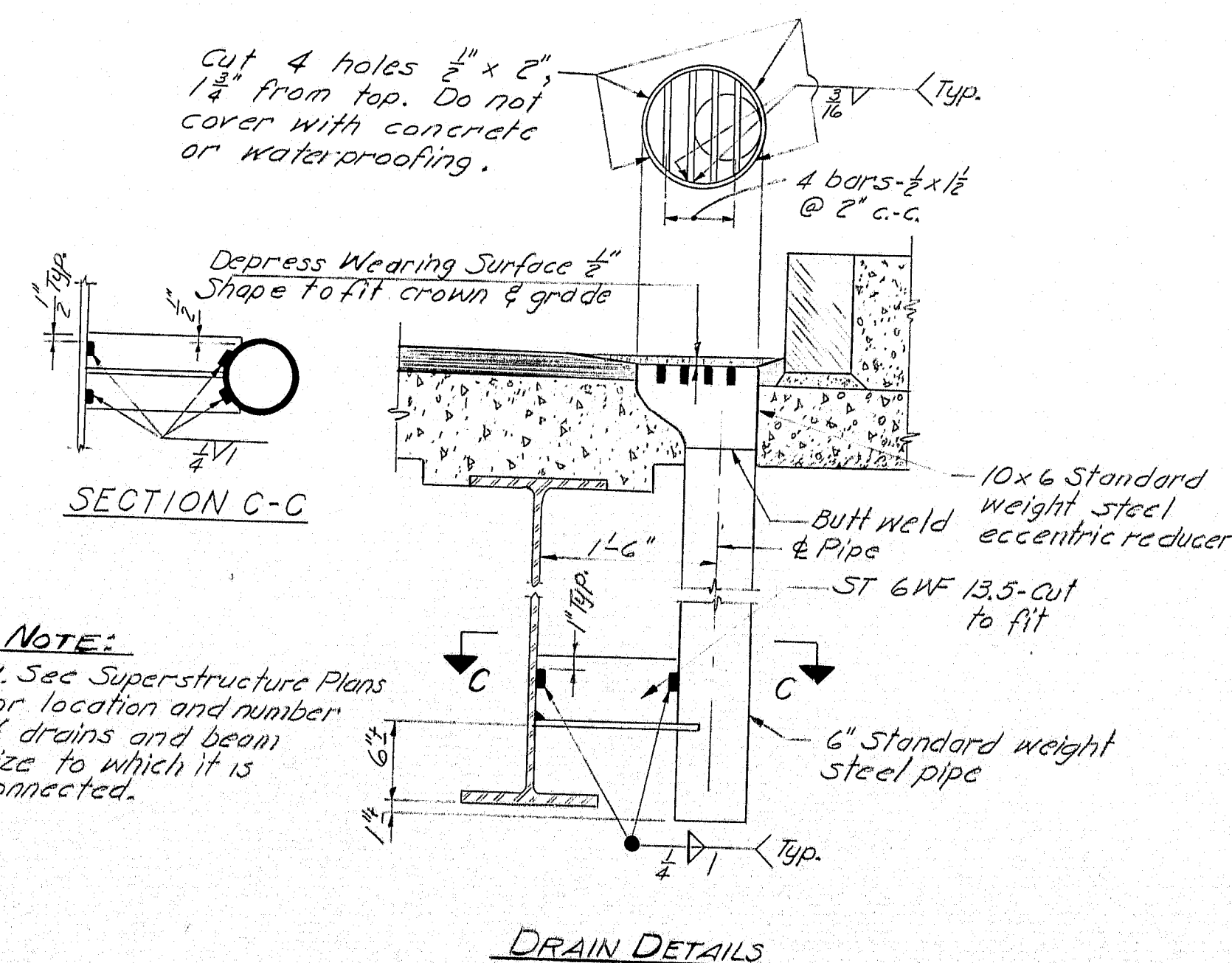


BLOCKING POINT DIAGRAM

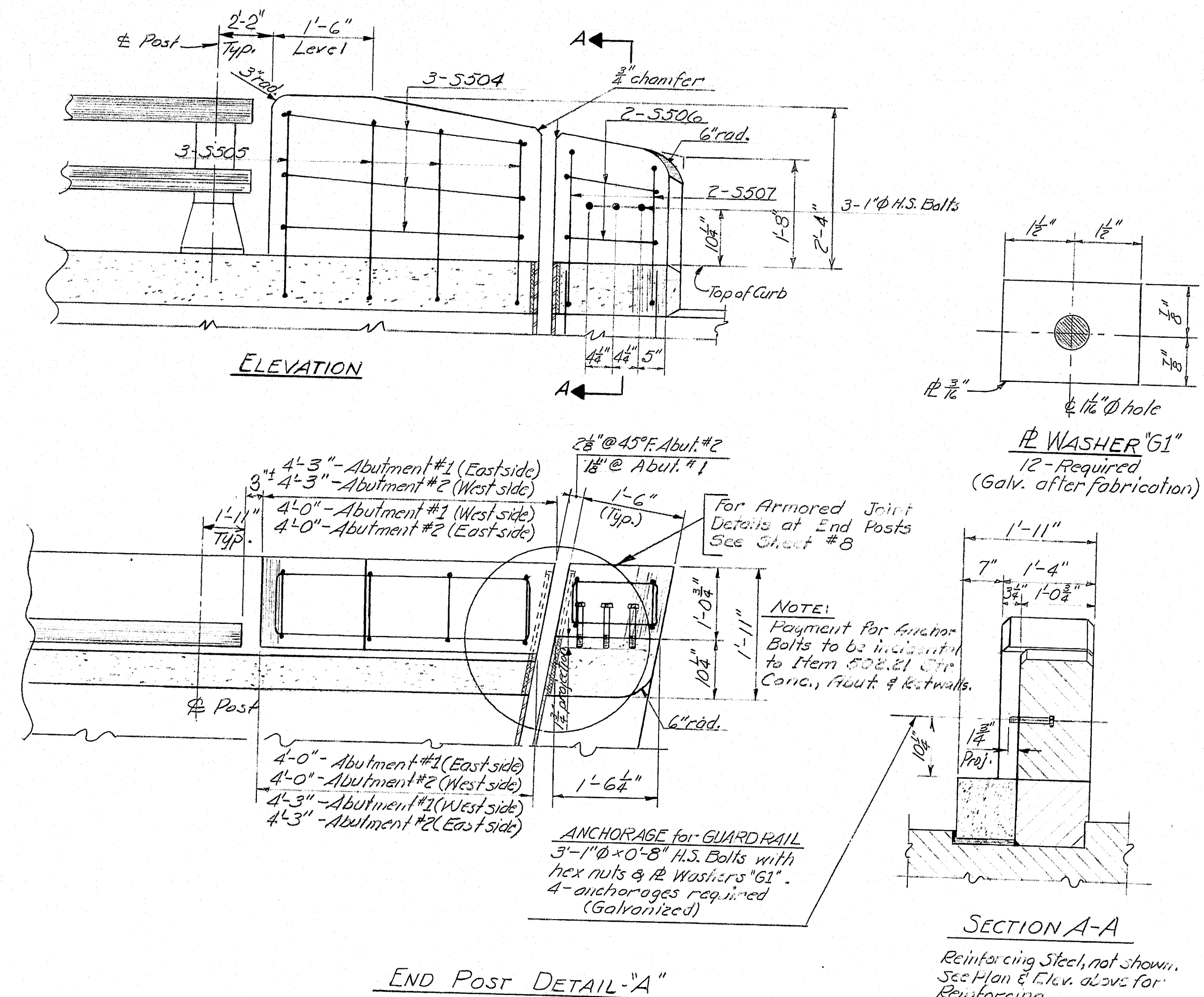


BLOCKING POINT DETAIL

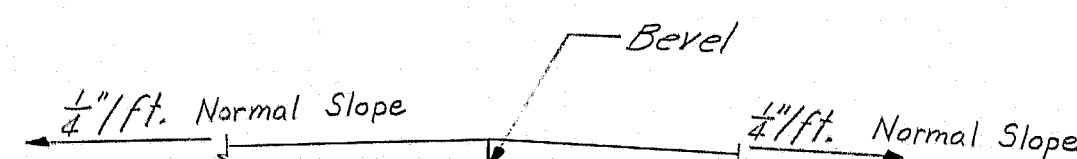
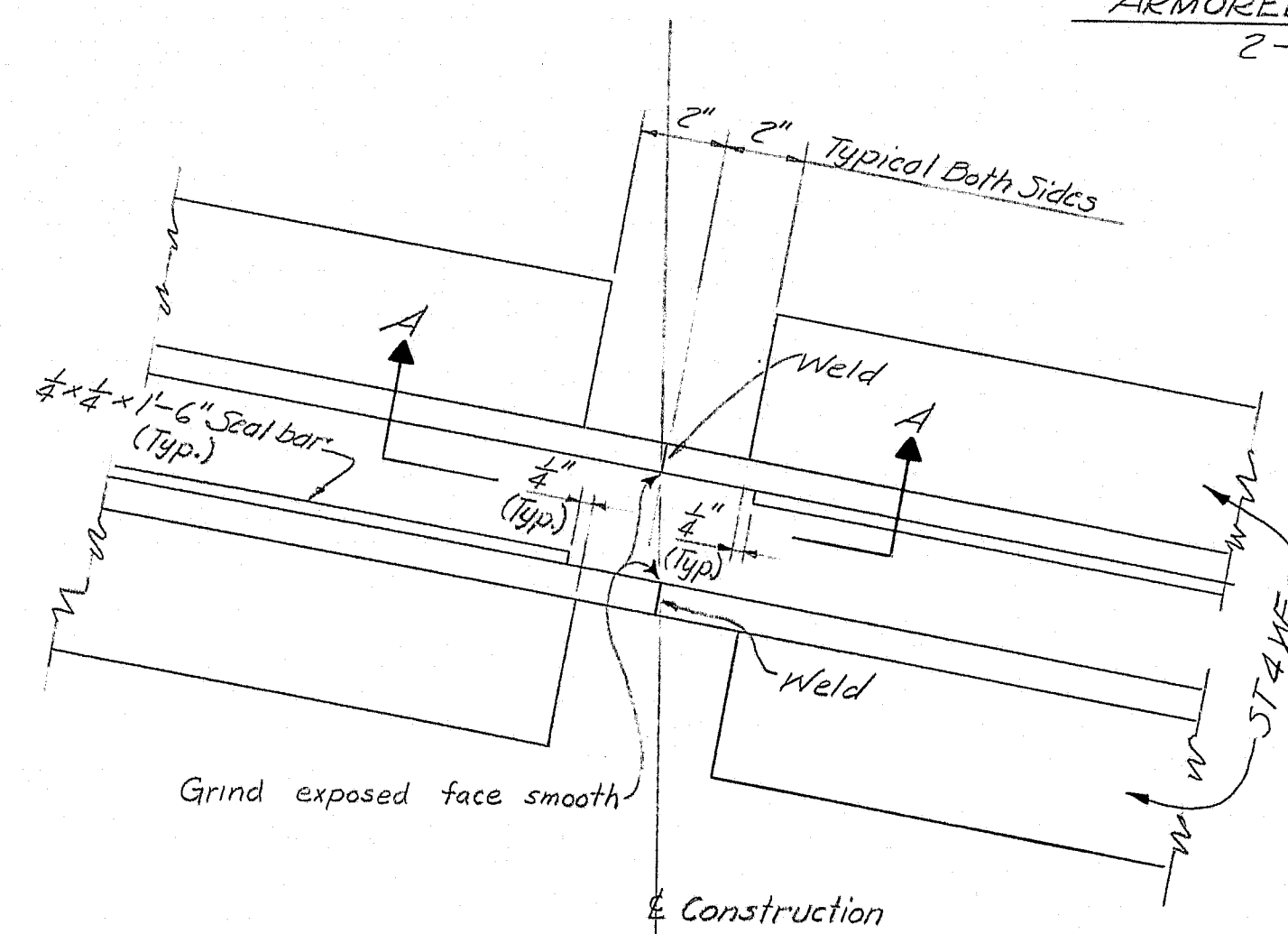
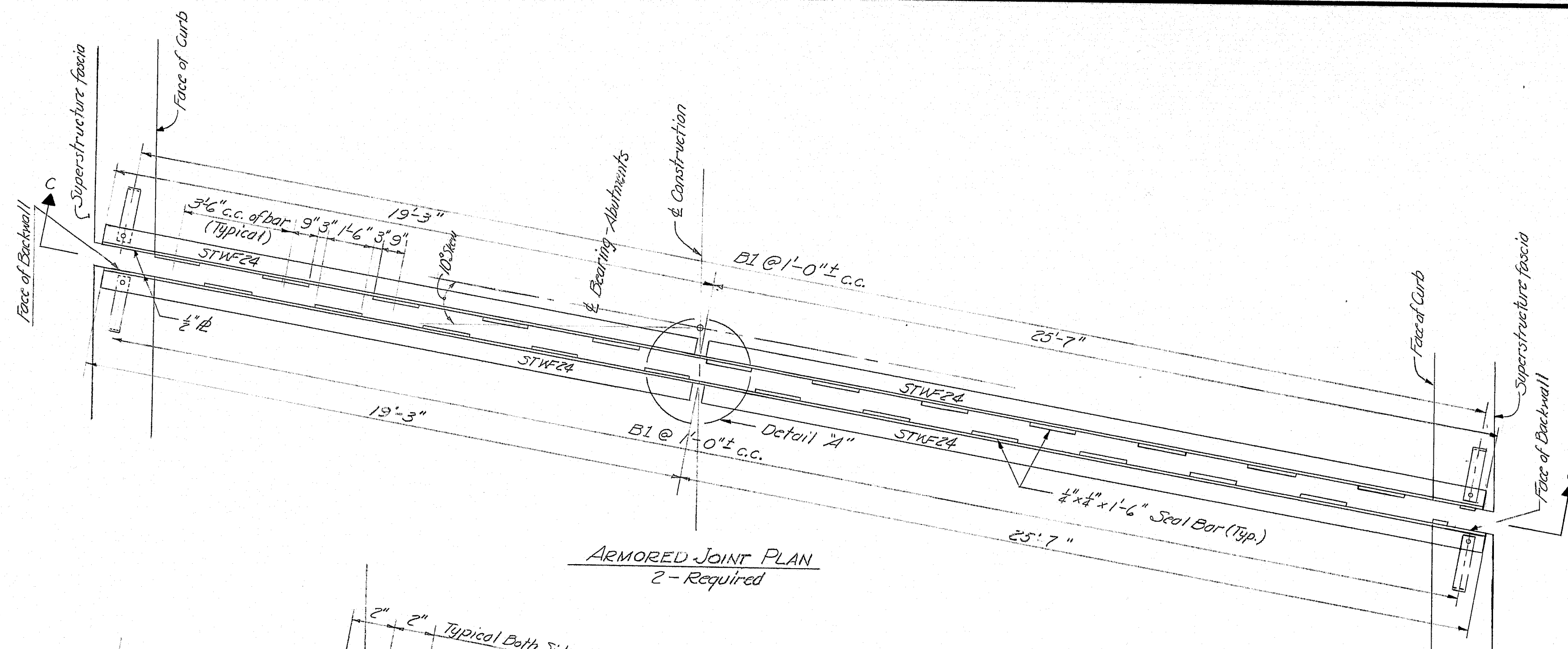
Blocking Notes:
Blocking for slab elevations shall be determined after all welding for chowdrains & studs has been completed, and before any slab form work is in place.



DRAIN DETAILS

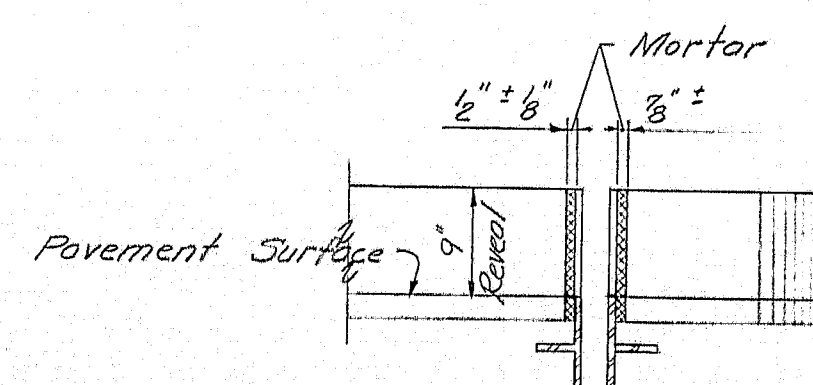
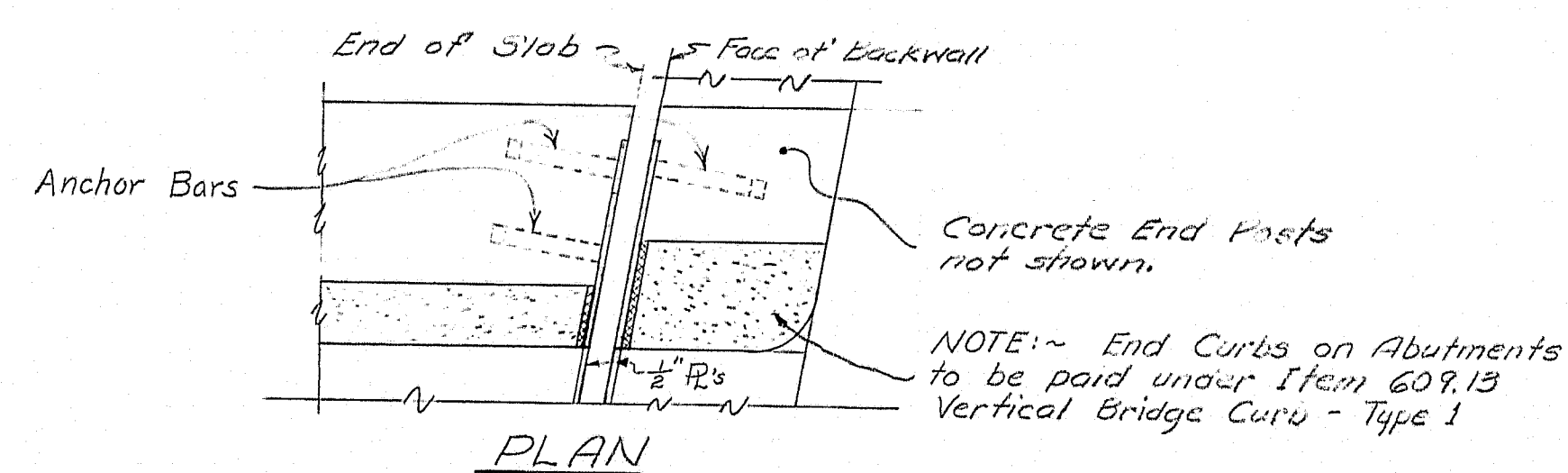


SHEET NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-B(87)	93	112

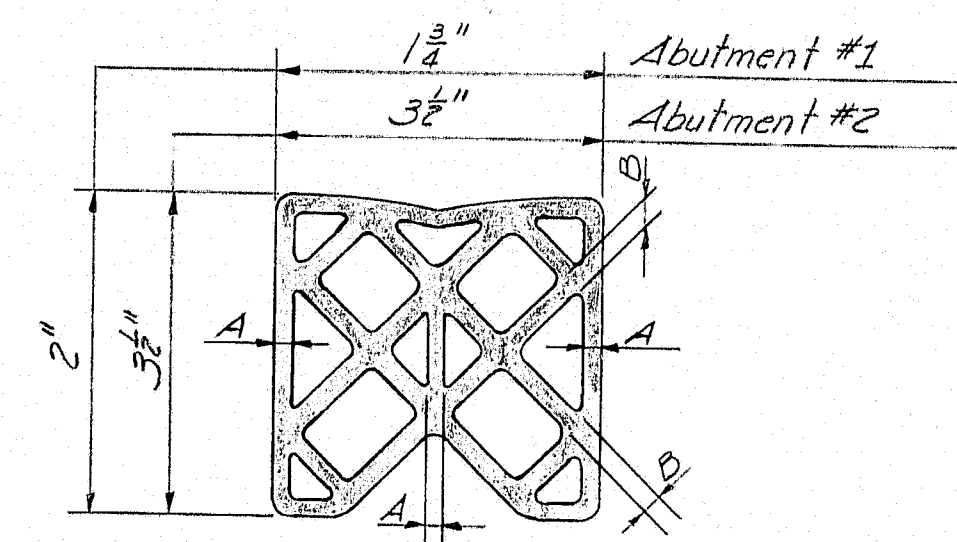


NOTE:
See Plan and Details above for Skew,
Crown Slope, Slab Thickness and other
dimensions necessary to complete
the fabrication of Armored Joints.

DETAIL 'A'

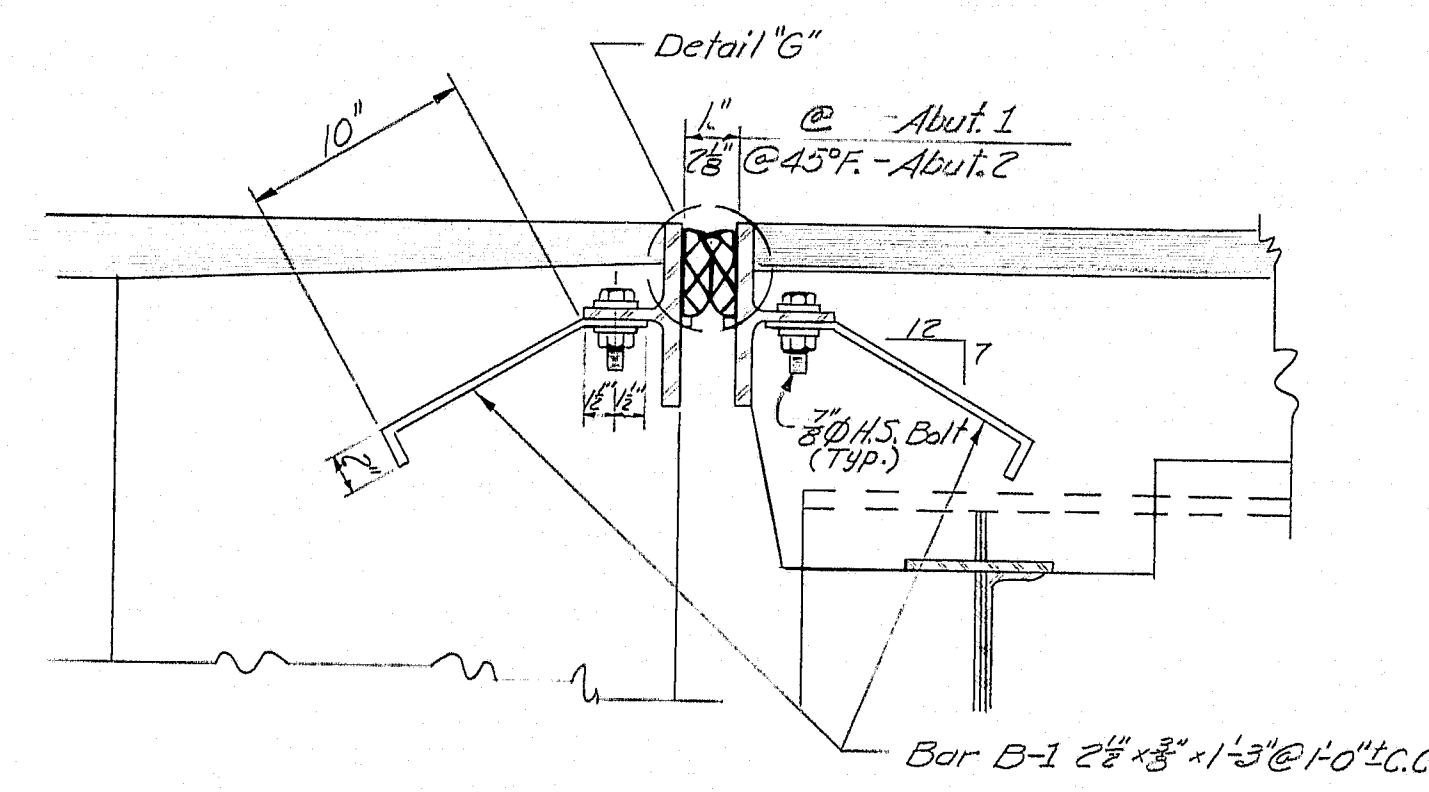
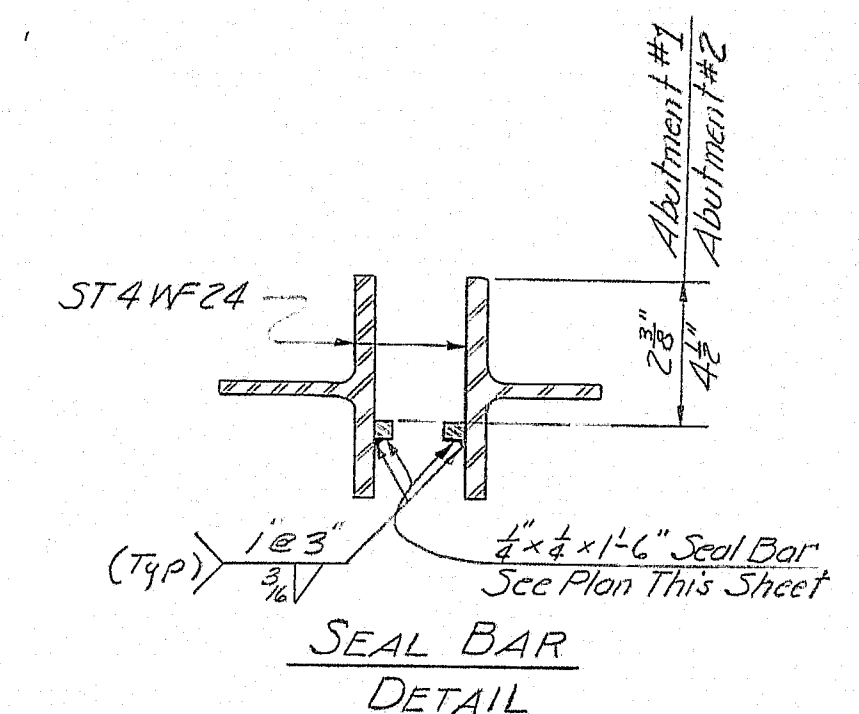


SIDE VIEW

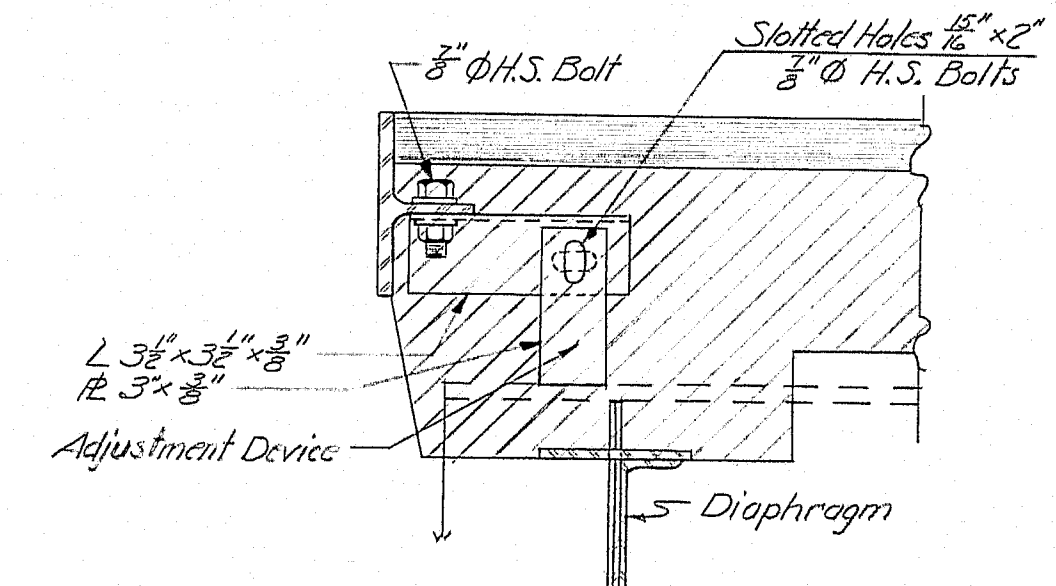


DETAIL 'G'
PREFORMED ELASTIC JOINT SEALER

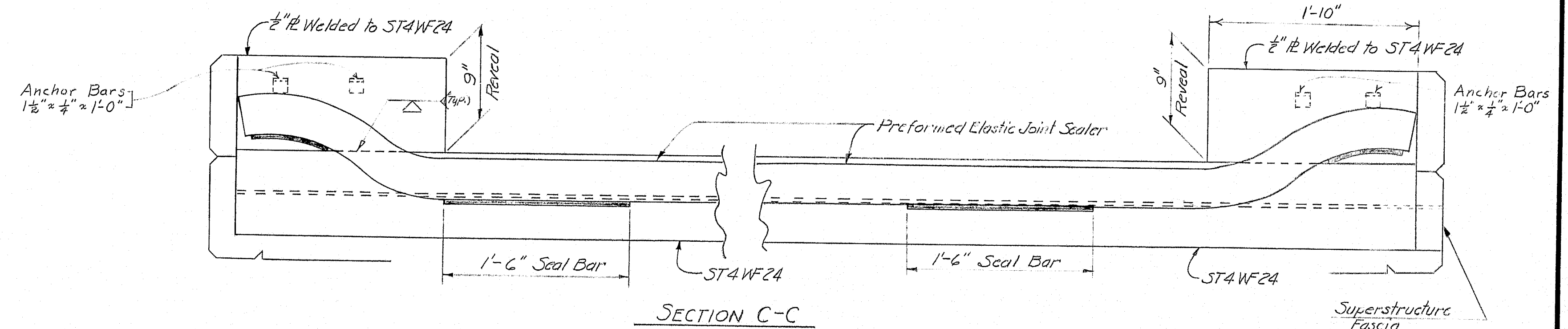
The configuration of the preformed elastic joint sealer may be changed from that shown in order to conform with shapes as produced by various manufacturers. However, the cross-sectional dimensions, including those of the internal elements & the shell (A&B) shall be approved by the Engineer before ordering the Preformed Elastic Joint Sealer.



SECTION D-D



ADJUSTMENT DEVICE DETAIL
5 - Adjustment Devices Superstructure Side only. 1 each beam



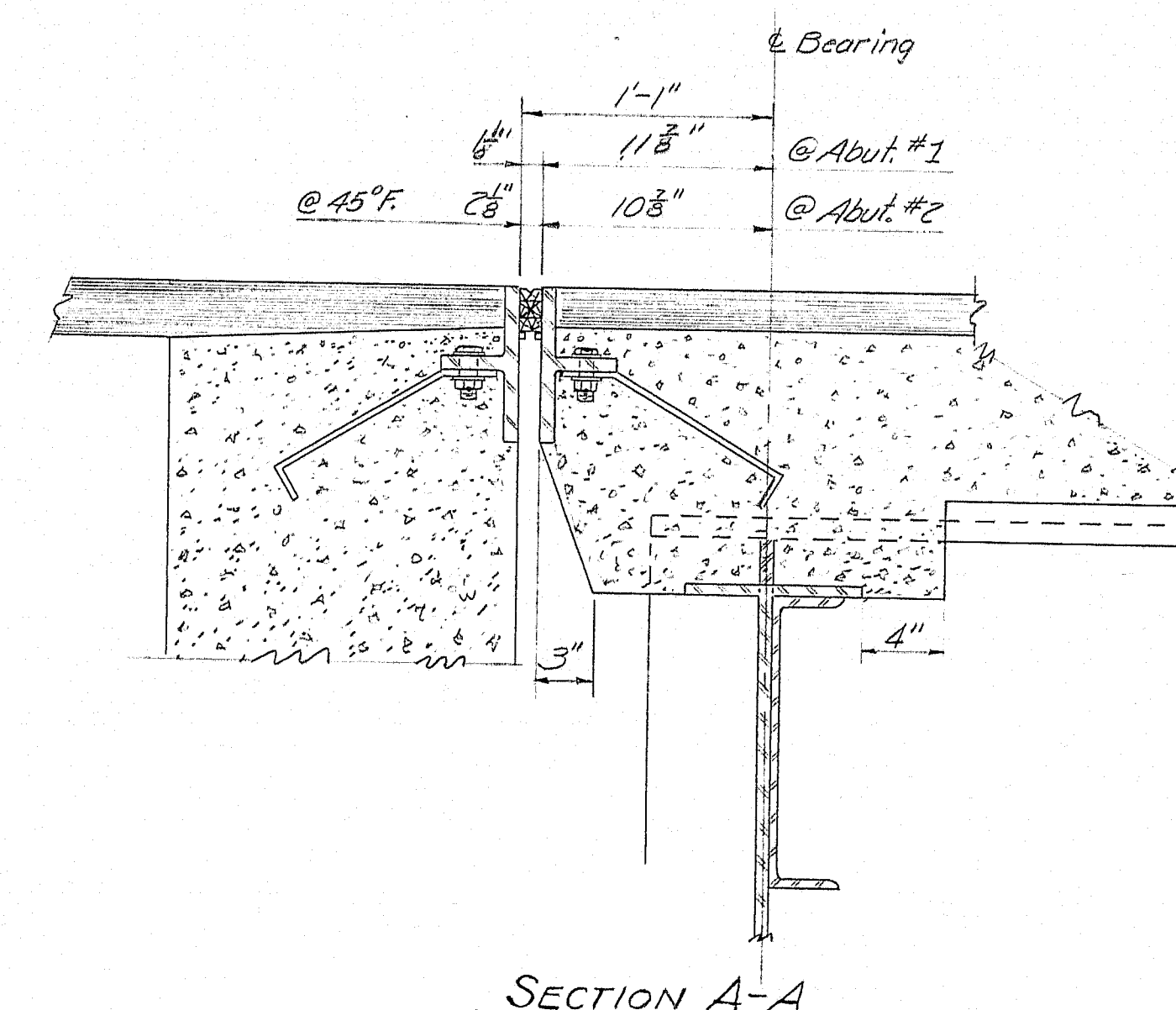
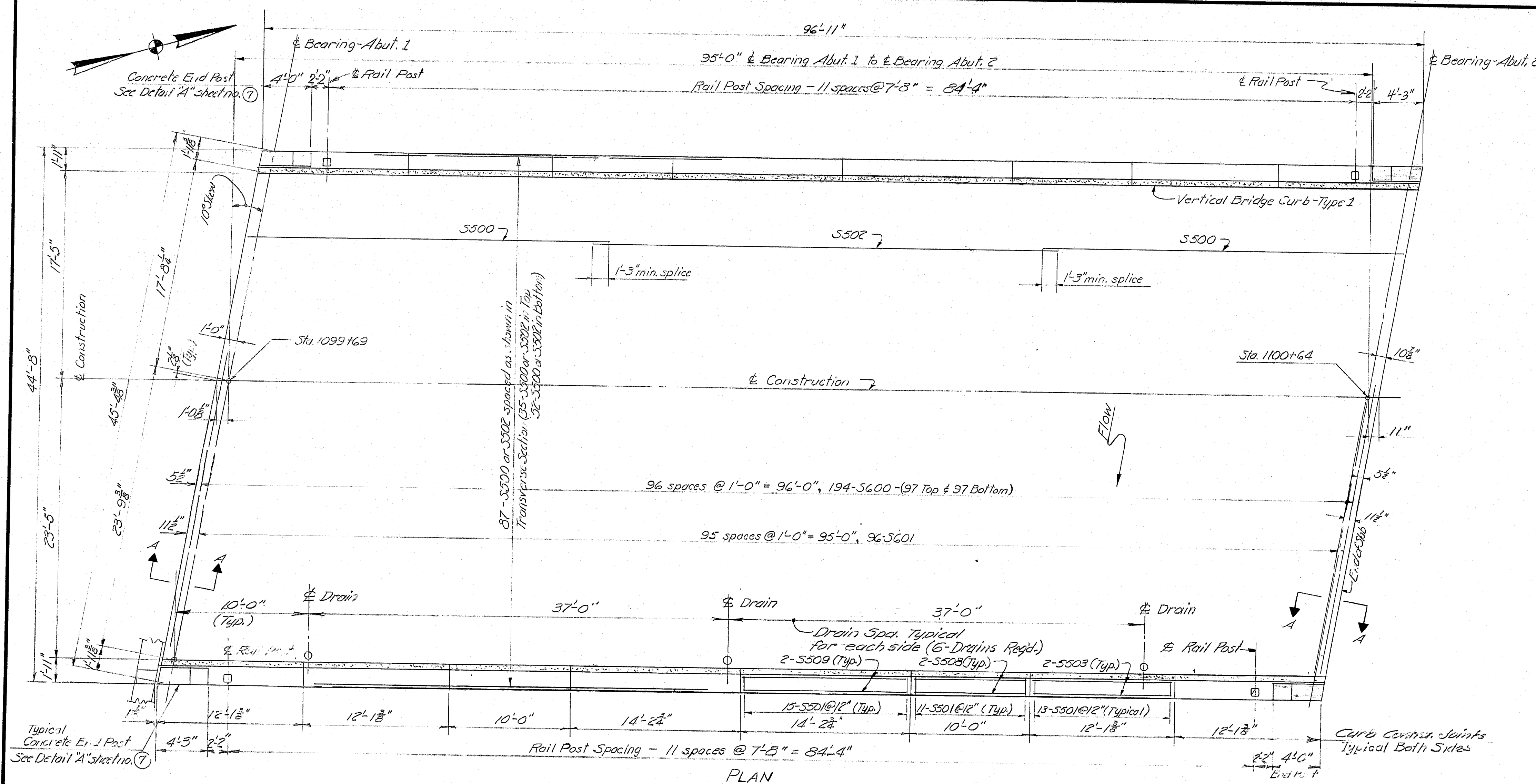
SECTION C-C

GENERAL NOTES
Preformed Elastic Joint Sealer shall be fabricated, delivered and installed according to supplemental specification, Section 302 and as shown on Plans.

STATE HIGHWAY COMMISSION
I-95 N.B. BRIDGE
OVER
BIRCH STREAM
BETWEEN THE TOWNS OF
ALTON - ARGYLE
PENOBSCOT COUNTY
ARMORED JOINT DETAIL
SHEET 8 OF 11 AUGUSTA, MAINE FEB 1970

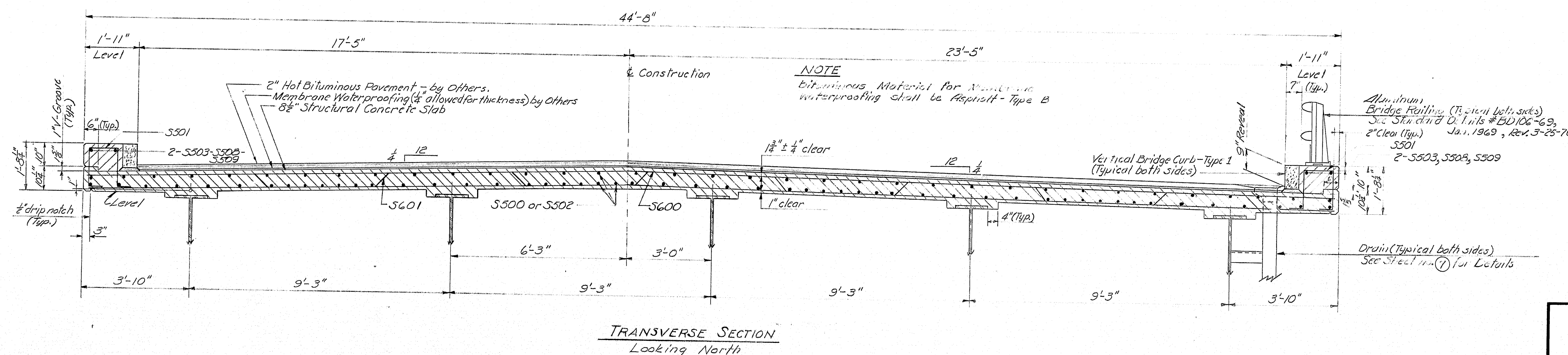
128-26 Alton-Argyle I-95 N.B.

S. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8 (87)	9A	11E



GENERAL SUPERSTRUCTURE NOTES

- At all contraction joints in concrete curbs break the bond between concrete surfaces by a method to be approved by the Engineer.
- Form "V" groove on the outside face of curb and extend face of slab at curb vertical joint.
- Provide joints in Vertical Bridge Curb, Type 1 at curb contraction joints.
- Apply Protective Coating for Concrete Surfaces to top of curbs; Corners, etc., coat Face and Concrete End Posts.
- All exposed edges to be chamfered $\frac{1}{2}$ ".
- All Reinforcing Steel to have 2" clear cover unless otherwise noted.



NOTE
Bituminous Material for Membrane Waterproofing shall be Asphalt-Type B.

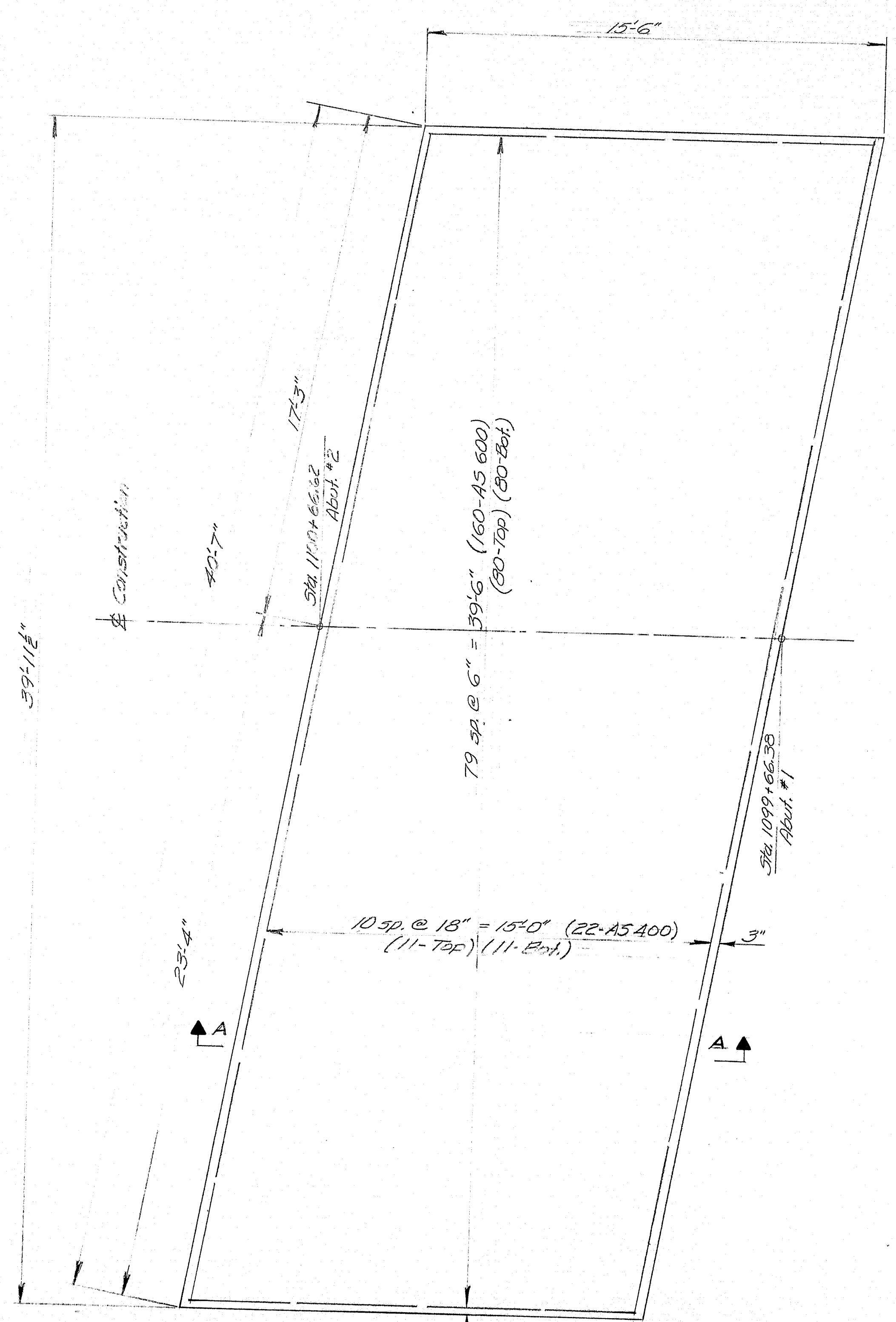
TRANSVERSE SECTION
Looking North

STATE HIGHWAY COMMISSION
I-95 N.B. BRIDGE
OVER
BIRCH STREAM
BETWEEN THE TOWNS OF
ALTON-ARGYLE
PENOBSCOT COUNTY
SUPERSTRUCTURE
SHEET 9 OF 11 AUGUSTA, MAINE FEB. 1970

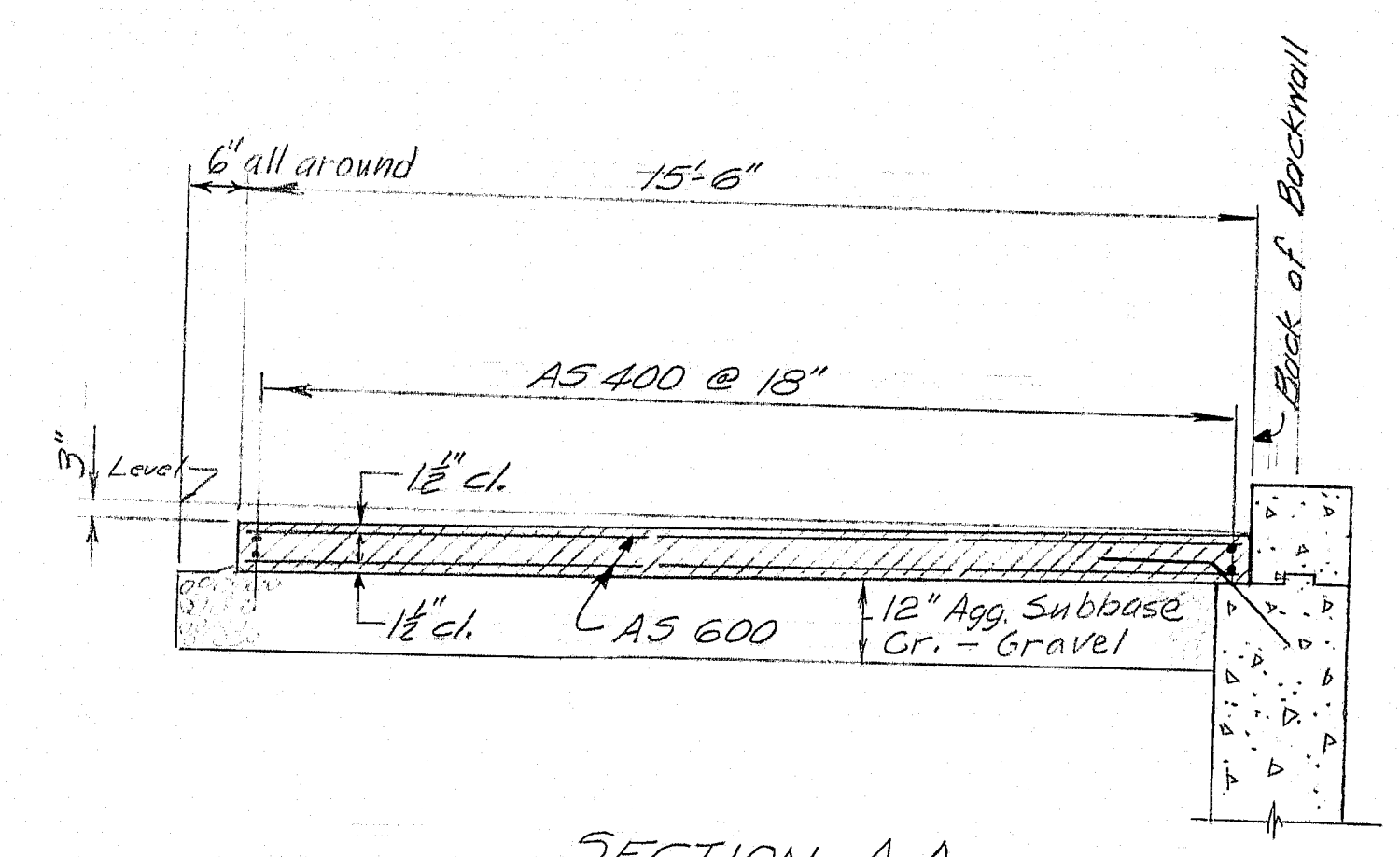
128-27 Alton Argyle I-95 N.B.

R. P. N.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-B (BT)	95	112

PLANS	DESIGN - DETAILED	BY	DATE
	CHECKED	GMC	8/8/70
	REVISIONS	LDH	5-5-70
	FIELD CHANGES		



TYPICAL APPROACH SLAB
8" Structural Concrete Slab
2-Required



SECTION A-A
Abut. #1 as shown
Abut. #2 opp. hand

STATE HIGHWAY COMMISSION

I-95 N.B. BRIDGE

OVER
BIRCH STREAM

BETWEEN THE TOWNS OF
ALTON-ARGYLE

PENOBSCOT COUNTY

APPROACH SLAB

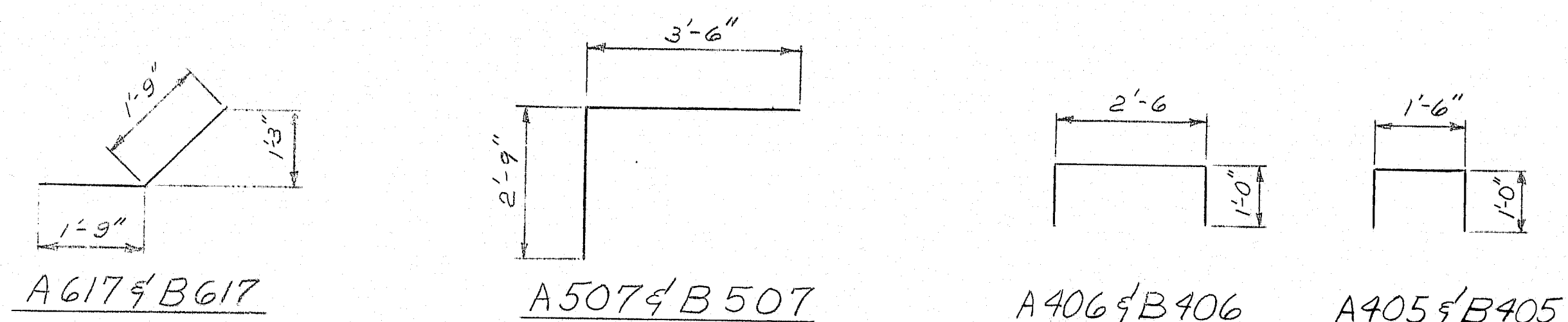
SHEET 10 OF 11 AUGUSTA, MAINE 1970

128-28 Alton-Argyle I-95 N.B.

REINFORCING STEEL SCHEDULE

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
MAINE	I-95-B(87)	96	112

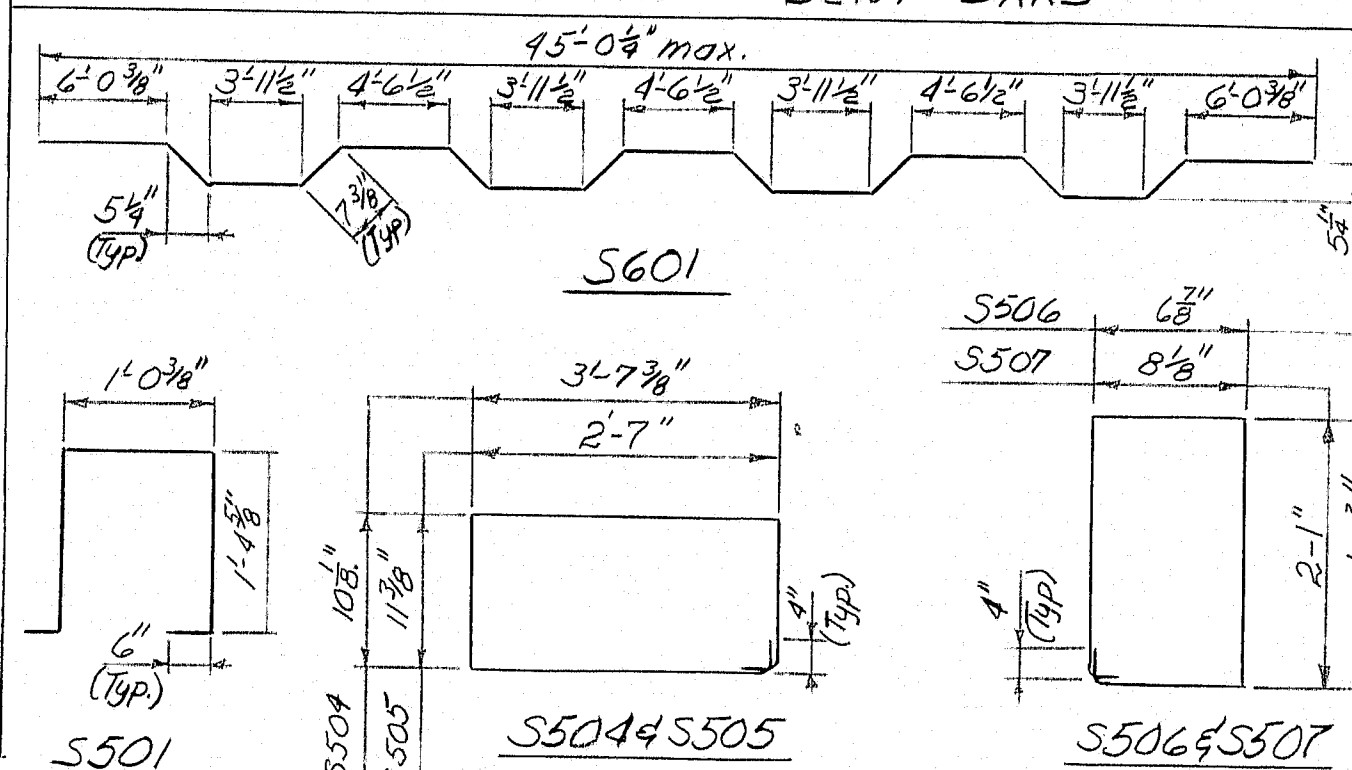
ABUTMENTS - BENT BARS



All dimensions are to # of bars.

ABUTMENT No. 1					ABUTMENT No. 2				
Mark	Size	No.	Length	Location	Mark	Size	No.	Length	Location
A617	6	28	3'-6"	Backwall & Approach Slab (Dowels)	B617	6	28	3'-6"	Backwall & Approach Slab (Dowels)
A507	5	28	6'-8"	Breastwall	B507	5	28	6'-8"	Breastwall
A405	4	10	3'-6"	Bearing Seat	B405	4	10	3'-6"	Bearing Seat
A406	4	10	4'-6"	" "	B406	4	10	4'-6"	" "
STRAIGHT BARS					STRAIGHT BARS				
A601	6	108	5'-7"	Footings	B601	6	108	5'-7"	Footings
A602	2	2	5'-4"	"	B602	2	2	5'-3"	"
A603	2	2	5'-3"	"	B603	2	2	5'-0"	"
A604	2	2	4'-6"	"	B604	2	2	4'-8"	"
A605	2	2	4'-4"	"	B605	2	2	4'-6"	"
A606	2	2	4'-5"	"	B606	2	2	4'-8"	"
A607	2	2	4'-5"	"	B607	2	2	4'-0"	"
A608	2	2	3'-10"	"	B608	2	2	3'-10"	"
A609	2	2	3'-8"	"	B609	2	2	3'-8"	"
A610	2	2	3'-6"	"	B610	2	2	3'-6"	"
A611	2	2	3'-0"	"	B611	2	2	3'-4"	"
A612	2	2	28'-0"	"	B612	2	2	3'-1"	"
A613	6	12	11'-0"	"	B613	12	12	30'-0"	"
A501	5	84	2'-6"	Footings & Breastwall (Dowel)	B501	5	86	2'-6"	Footings & Breastwall (Dowel)
A502	32	32	6'-2"	Footings & Back wall	B502	32	32	6'-3"	Footings & Back wall
A503	3	24	2'-3"	Breastwall	B503	3	23	2'-2"	Breastwall
A504	3	20	2'-6"	"	B504	3	21	2'-1"	"
A505	3	21	2'-3"	"	B505	3	21	2'-3"	"
A506	3	18	2'-3"	"	B506	3	18	2'-3"	"
A508	64	5	5'-10"	Back wall	B508	64	5	6'-8"	Back wall
A509	8	9	9'-9"	U.S. & D.S. Wingwalls	B509	8	10	10'-7"	U.S. & D.S. Wingwall
A510	2	9	9'-0"	D.S. Wing	B510	4	9	9'-6"	" " " "
A511	2	8	8'-3"	" " " "	B511	4	9	9'-0"	" " " "
A512	4	7	7'-6"	" " " " U.S. Wing	B512	2	8	8'-3"	U.S. Wing
A513	4	6	6'-9"	" " " " U.S. Wing	B513	2	7	7'-6"	" " " "
A514	2	6	6'-0"	" " " " U.S. Wing	B514	2	6	6'-9"	" " " "
A515	2	9	9'-3"	U.S. Wing	B515	2	8	8'-0"	D.S. Wing
A516	4	6	6'-0"	Footings & Back wall	B516	4	6	6'-0"	Footings - Back wall
A517	2	8	8'-6"	U.S. Wing	B517	2	7	7'-6"	D.S. Wing
A518	2	8	8'-0"	" " " "	B518	2	6	6'-9"	" " " "
A401	4	8	24'-3"	Back wall	B401	4	10	23'-2"	Back wall
A402	8	20	20'-6"	"	B402	10	21	21'-1"	"
A403	8	8	8'-10"	D.S. Wing	B403	10	10	10'-8"	U.S. Wing
A404	2	6	6'-0"	" " " "	B404	4	5	5'-6"	" " " "
A407	2	9	9'-9"	" " " "	B407	2	12	12'-0"	" " " "
A408	10	7	7'-3"	U.S. Wing	B408	10	8	8'-11"	D.S. Wing
A409	2	7	7'-11"	" " " "	B409	2	10	10'-1"	" " " "
A410	2	4	4'-3"	" " " "	B410	2	4	4'-3"	" " " "
A411	8	2	2'-0"	Back wall & Curb (Dowels)	B411	8	2	2'-0"	Back wall & Curb (Dowels)

SUPERSTRUCTURE - BENT BARS



Mark	Size	No.	Length	Location
S501	#5	196	4'-10"	Curb Stirrups
S504	5	12	9'-7"	End Post
S505	5	16	7'-9"	" "
S506	5	8	3'-11"	End Post (Backwall)
S507	5	8	6'-3"	" " " "
S601	#6	96	46'-6"	Crank Bar Superstructure Slab

STRAIGHT BARS

S500	5	174	30'-0"	Slab
S502	5	87	39'-1"	"
S503	5	16	11'-9"	Curbs
S508	5	8	9'-8"	Curbs
S509	5	8	13'-10"	Curbs
S600	6	194	45'-0"	Slab

APPROACH SLAB

STRAIGHT BARS				
A5400	4	44	40'-0"	Approach Slab
A5600	6	320	15'-0"	Approach Slab

NOTE:
All dimensions are to # bars
Reinforcing Steel to be ASTM A615 Grade 60

DATE	BY	DESIGN - DETAILED	CHECKED	REVISIONS	FIELD CHANGES
8-10-70	R/V/L	6-21-71	6-21-71		

PLANS

STATE HIGHWAY COMMISSION
I-95 N.B. BRIDGE
OVER
BIRCH STREAM
BETWEEN THE TOWNS OF
ALTON - ARGYLE
PENOBSCOT COUNTY
REINFORCING STEEL

SHEET 11 OF 11 AUGUSTA, MAINE

128-29 Alton Argyle I-95 N.B.