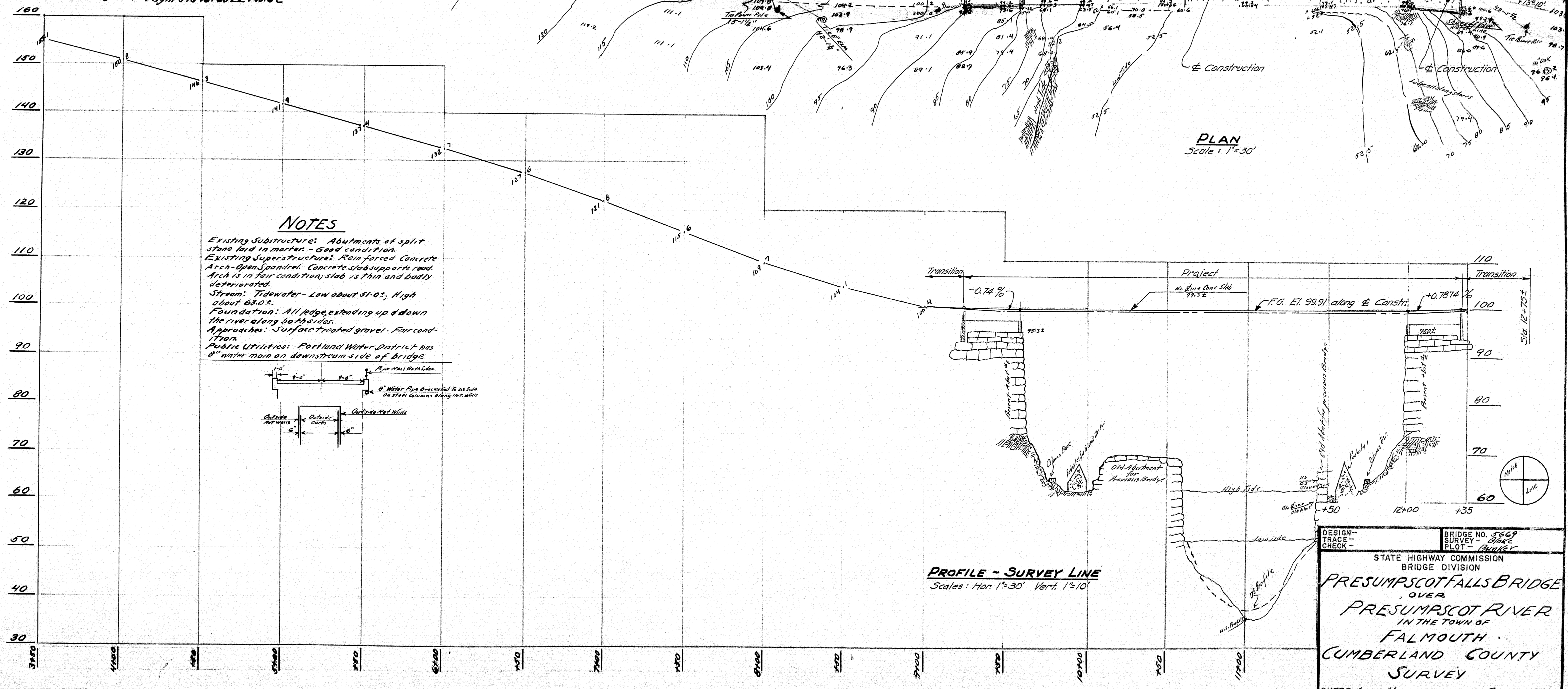
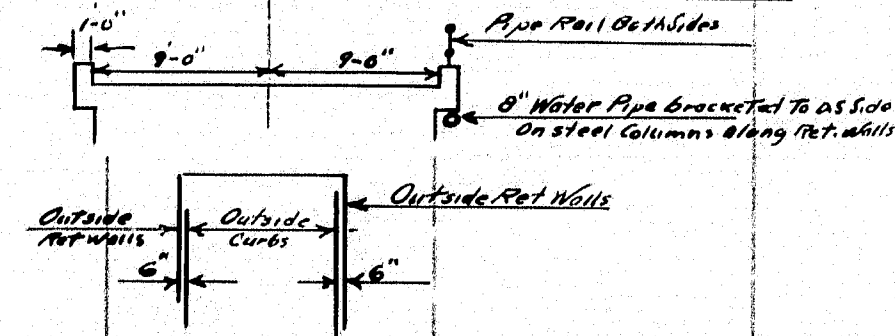


BENCH MARKS
 BM#1 - Cut Square U.S. Curb Left Sta. 10445 EL. 100.00
 BM#2 - Tie Nail in 36" Elm - Right Sta. 6410 EL. 138.47
 BM#3 - Tie Nail in 36" Elm - Right Sta. 16460 EL. 142.62



NOTES

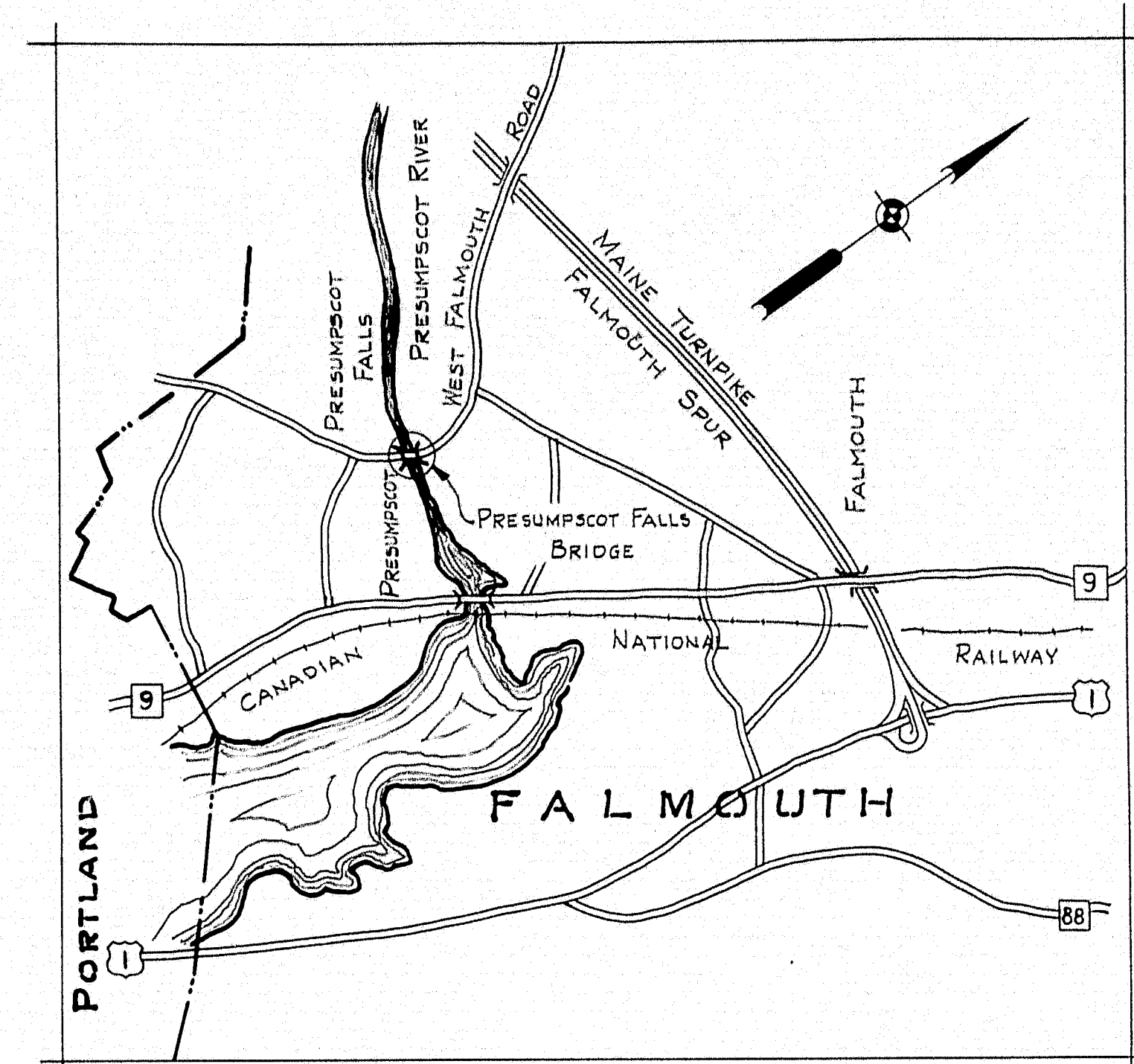
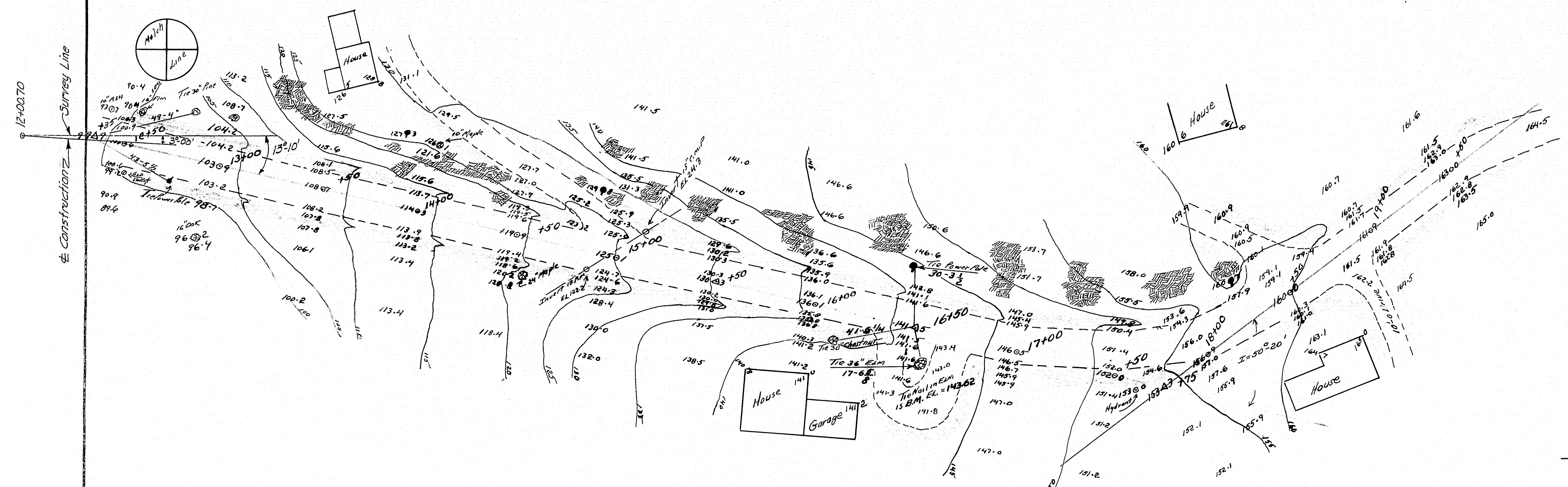
Existing Substructure: Abutments of split stone laid in mortar - Good condition.
 Existing Superstructure: Reinforced Concrete Arch - Open Spandrel. Concrete slab supports road. Arch is in fair condition; slab is thin and badly deteriorated.
 Stream: Tidewater - Low about 51-02, High about 63-02.
 Foundation: All ledge extending up & down the river along both sides.
 Approaches: Surface treated gravel. Fair condition.
 Public Utilities: Portland Water District has 8" water main on downstream side of bridge.



PROFILE - SURVEY LINE
 Scales: Hor. 1"=30' Vert. 1"=10'

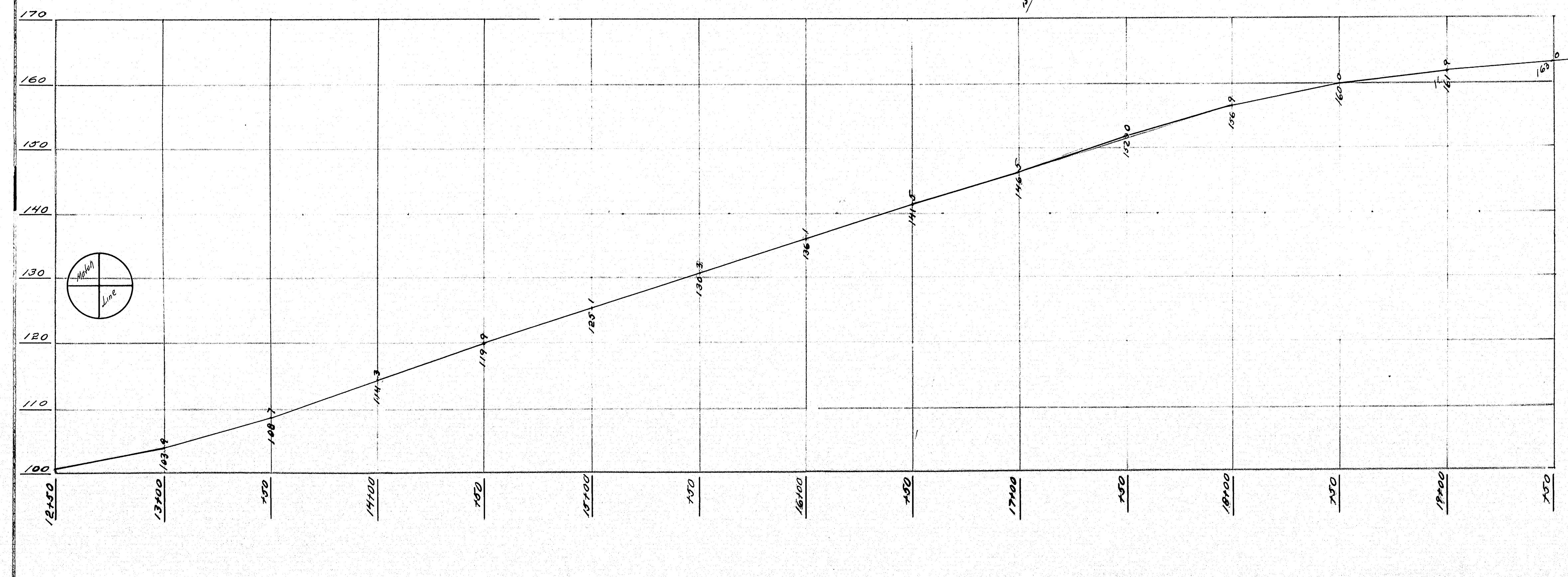
DESIGN -
 TRACE -
 CHECK -
 BRIDGE NO. 3669
 SURVEY -
 PLOT -
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
PRESUMPCOT FALLS BRIDGE
 OVER
PRESUMPCOT RIVER
 IN THE TOWN OF
FALMOUTH
CUMBERLAND COUNTY
SURVEY
 SHEET 1 OF 11 AUGUSTA, MAINE DEC 5, 1955

S. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



LOCATION MAP
SCALE: 2" = 1 MILE (APPROX)

PROFILE along SURVEY LINE
Scale Horizontal - 1" = 30'
Vertical - 1" = 10'



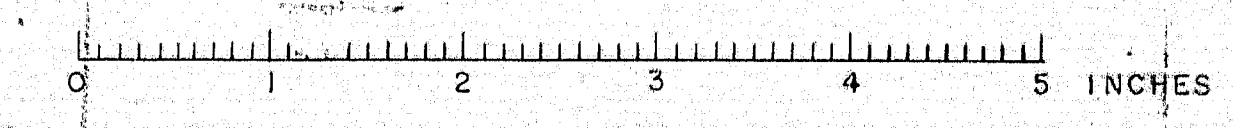
DESIGN -
TRACE -
CHECK -

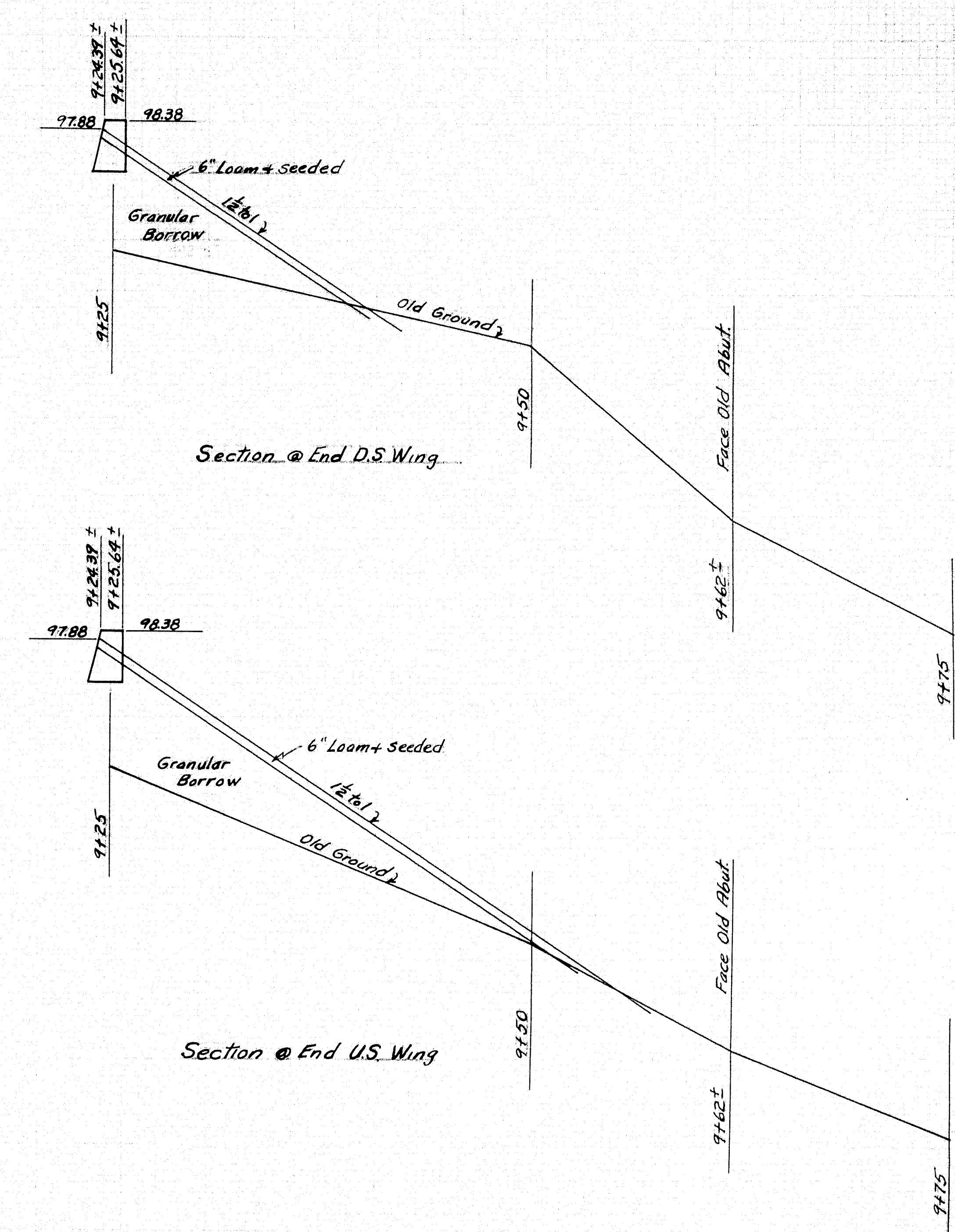
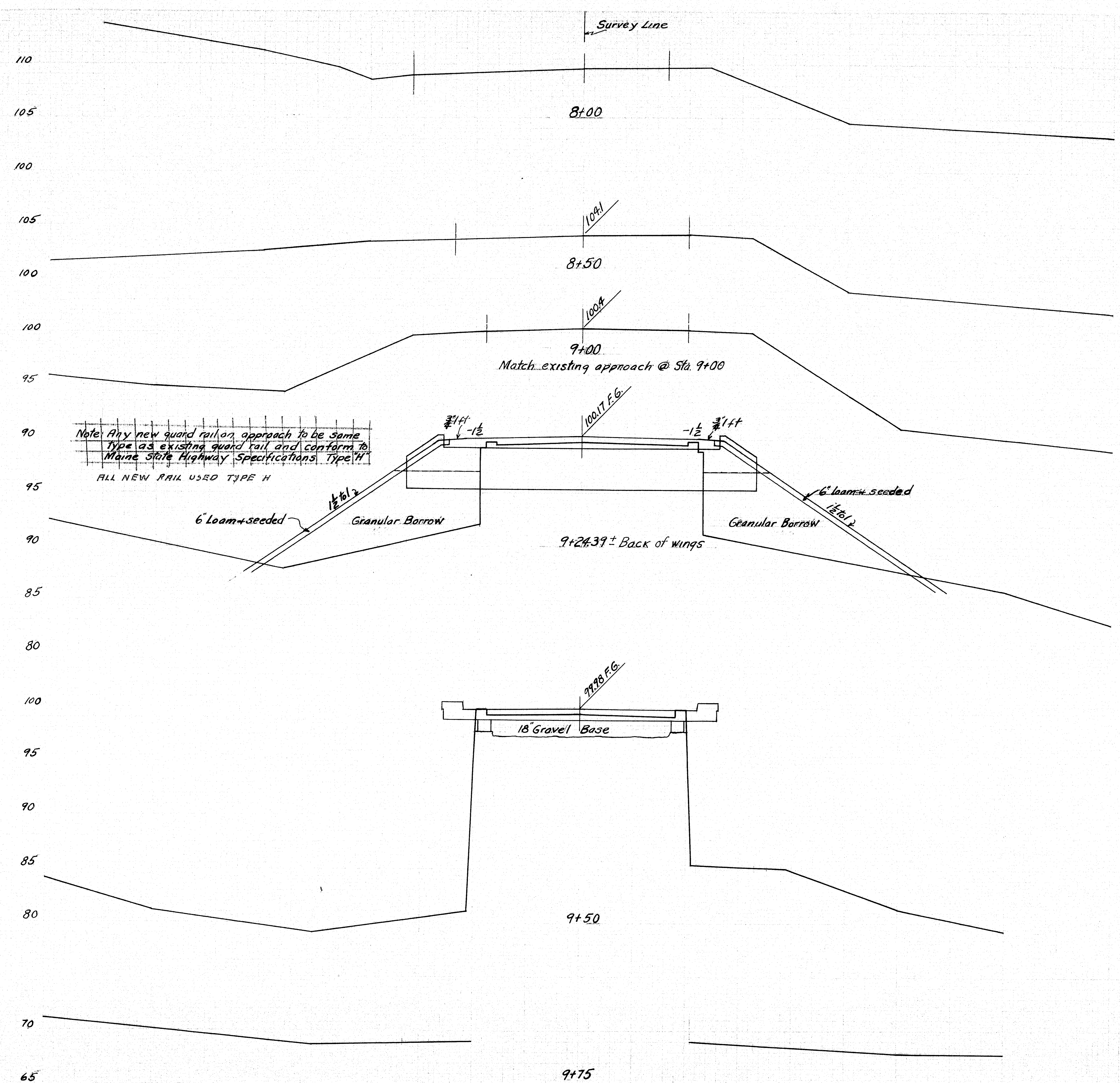
BRIDGE NO. 3667
SURVEY DATE 1955
PLOT DATE 1955

STATE HIGHWAY COMMISSION

PRESUMPSCOT FALLS BRIDGE
OVER
PRESUMPSCOT RIVER
IN THE TOWN OF
FALMOUTH
CUMBERLAND COUNTY
SURVEY

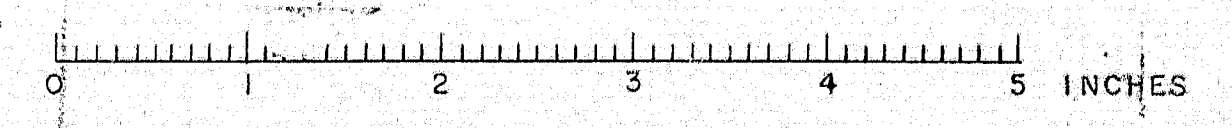
SHEET 2 OF 11 AUGUSTA, MAINE Dec. 5 - 1955

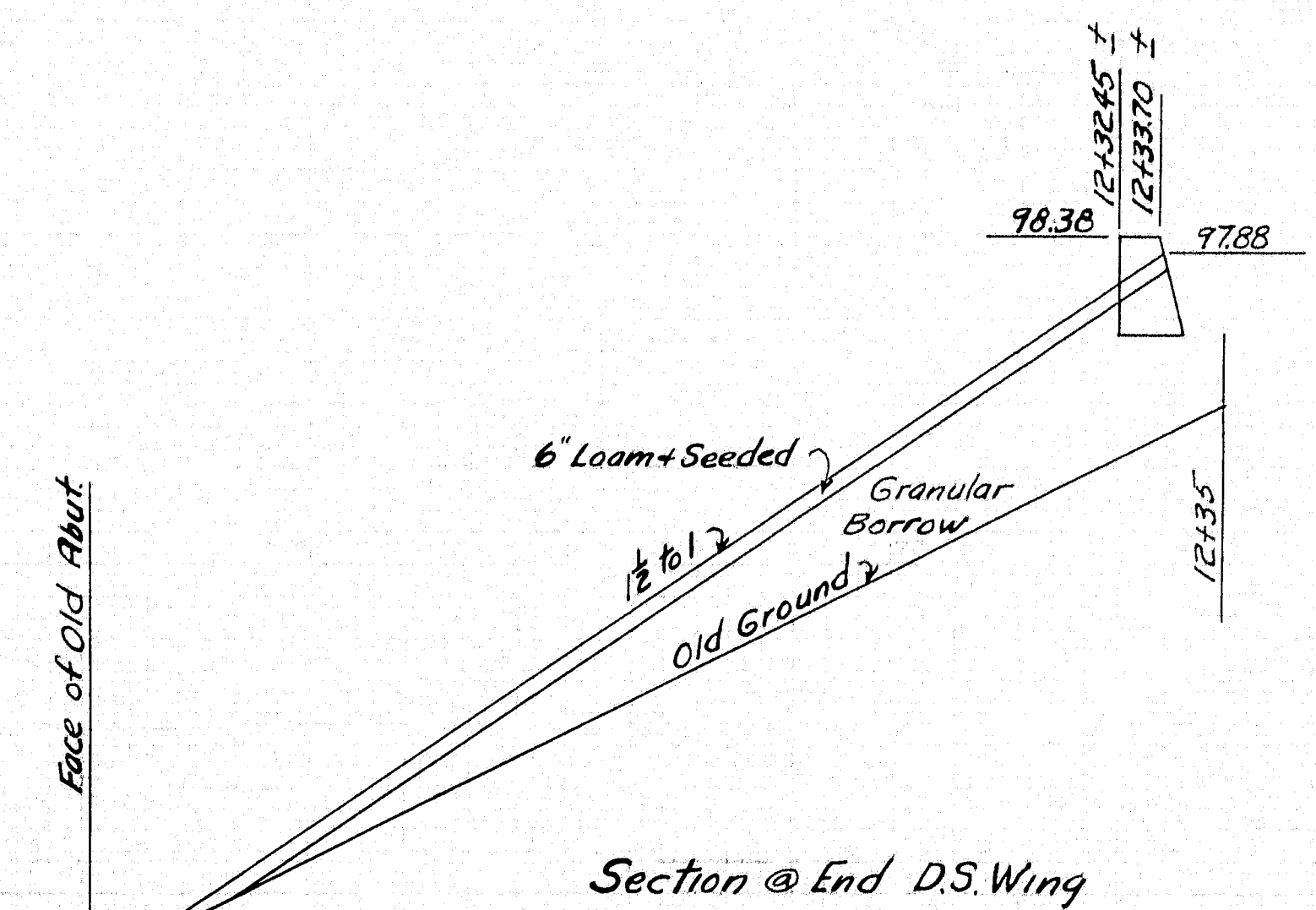
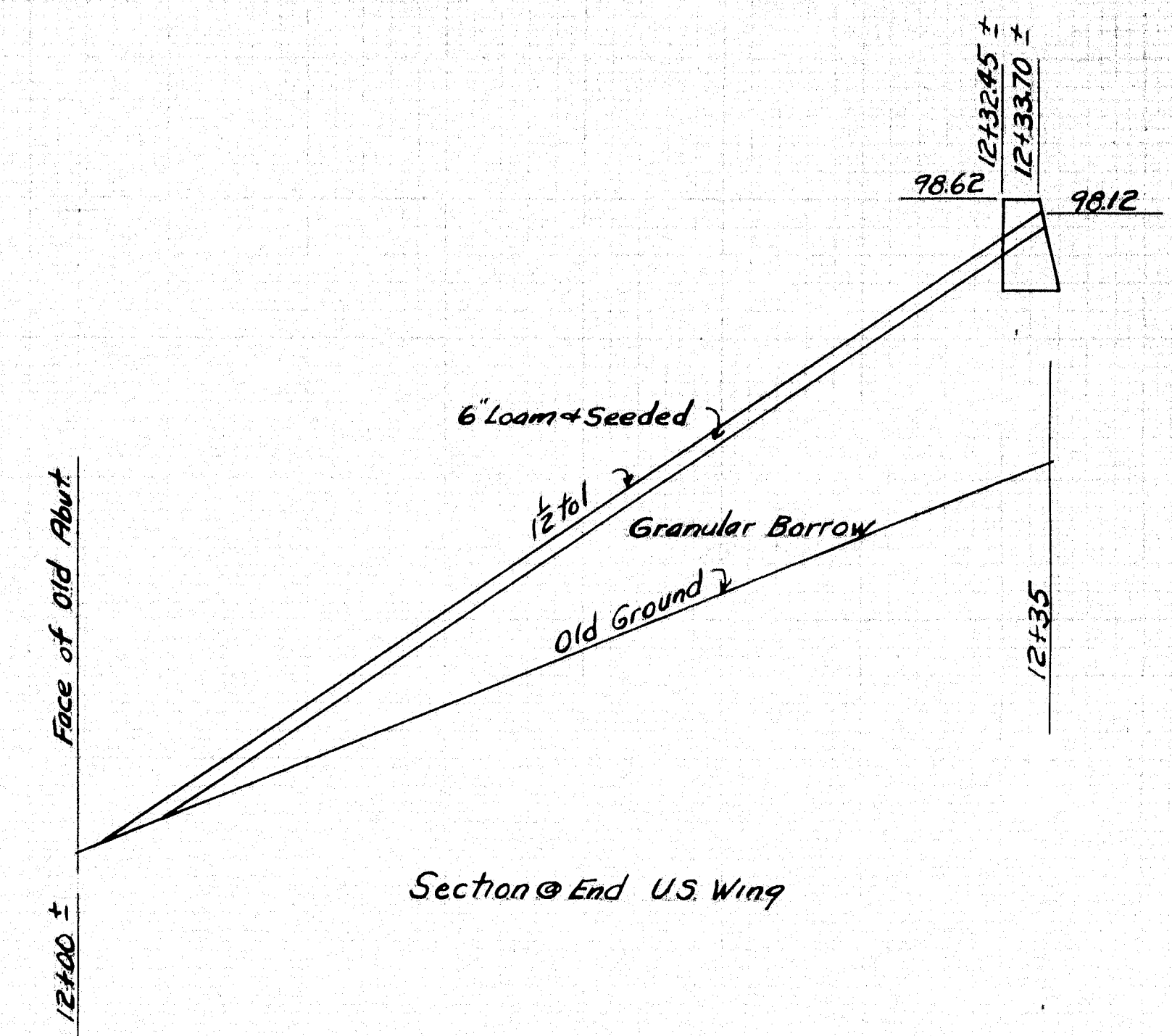
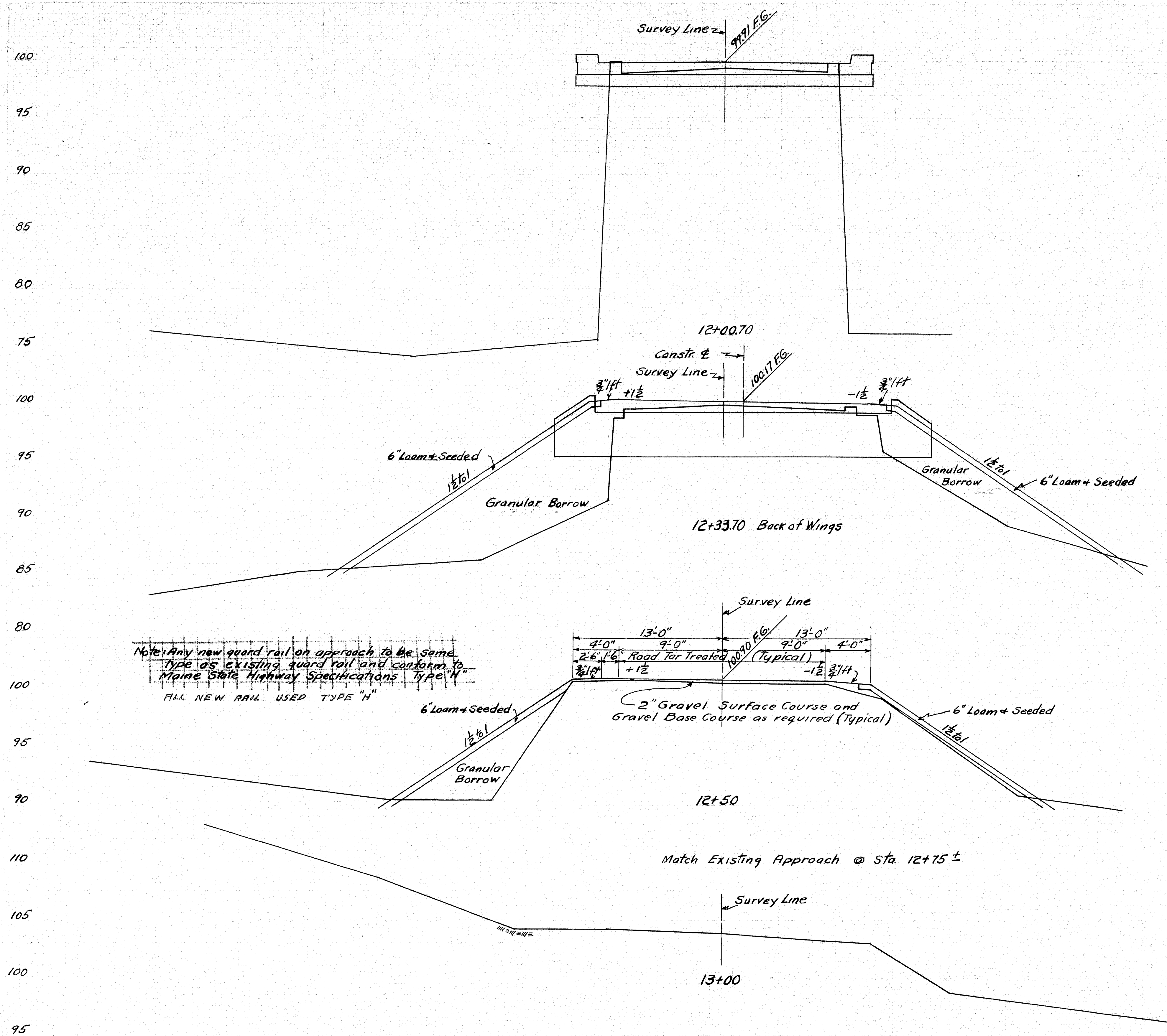




PLOT - PORTER	BRIDGE - 5669
CHECK - <i>MC</i>	STATE HIGHWAY COMMISSION
BRIDGE DIVISION	
PRESUMPCOT FALLS BRIDGE	
OVER	
PRESUMPCOT RIVER	
IN THE TOWN OF	
FALMOUTH	
CUMBERLAND COUNTY	
CROSS SECTIONS	
SHEET 3 OF 11 AUGUSTA, MAINE APRIL 1956	

66-177



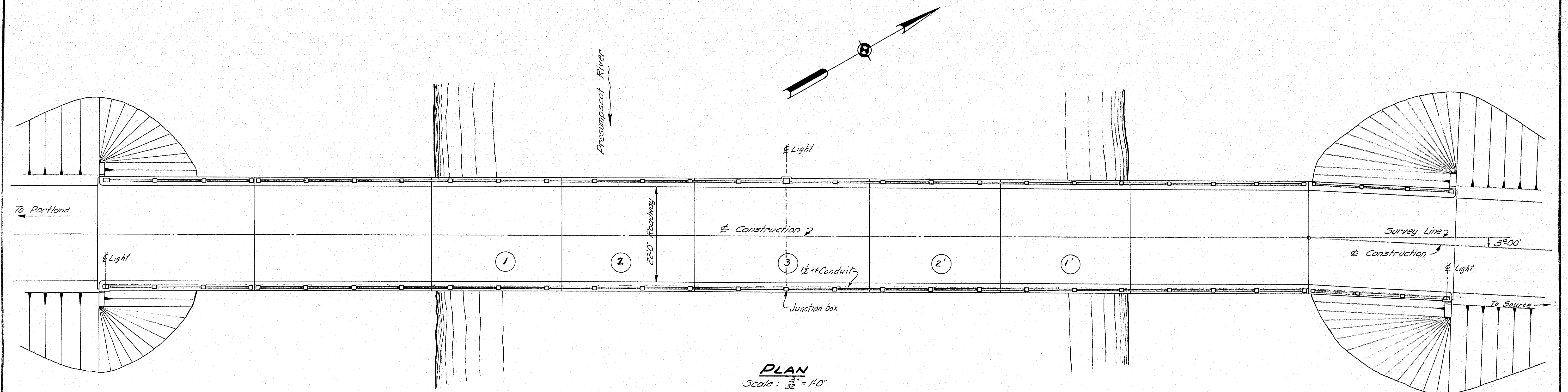


PLOT - PORTER	BRIDGE - 5669
CHECK - MOR	
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
PRESUMPCOT FALLS BRIDGE OVER	
PRESUMPCOT RIVER IN THE TOWN OF	
FALMOUTH CUMBERLAND COUNTY	
CROSS SECTIONS	
SHEET 4 OF 11 AUGUSTA, MAINE APRIL, 1956	

66-178

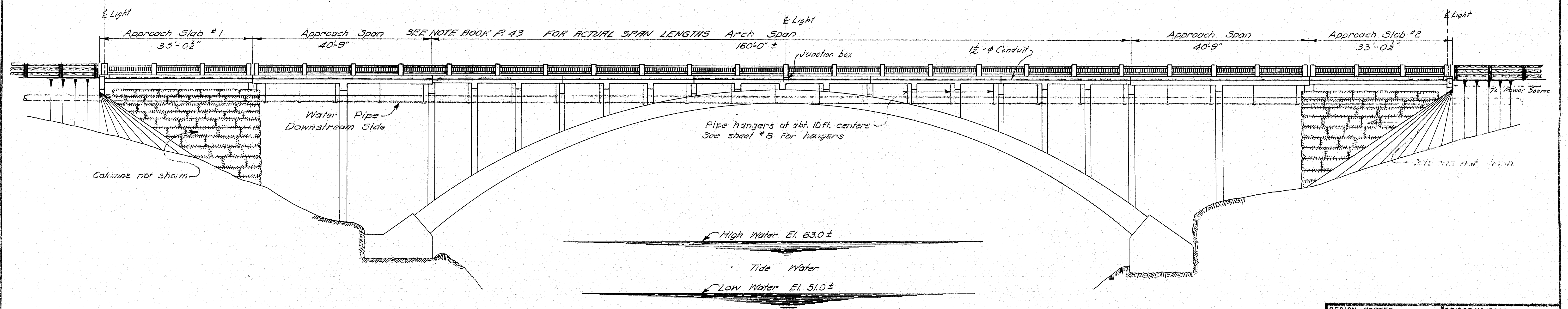
0 1 2 3 4 5 INCHES

B. P. R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



PLAN
Scale: $\frac{3}{32}'' = 1'-0''$

NOTE: In the removal of the existing floor and the construction of the new floor, the load on the arch ring shall be kept as symmetrical as practicable. In order to accomplish this, the contractor shall submit removal and placing schedules, using the encircled slab numbers for designation, to the Engineer for approval before commencing construction.



STRUCTURE:

Stone abutments, Arch rings and columns of existing structure to be retained. Floor and rail to be constructed.

CONCRETE CLASSIFICATION
Rail Posts Class Y
All other concrete Class A

ELEVATION
Scale: Hor. & Vert. $\frac{3}{32}'' = 1'-0''$

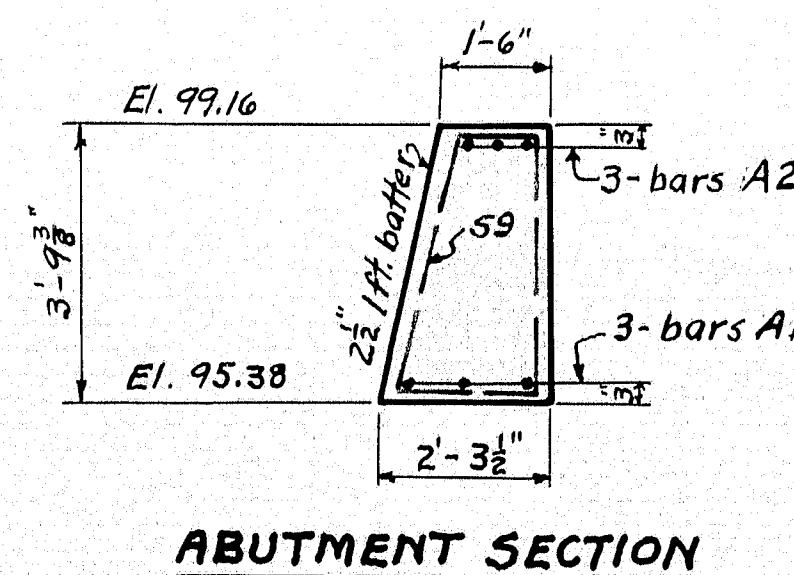
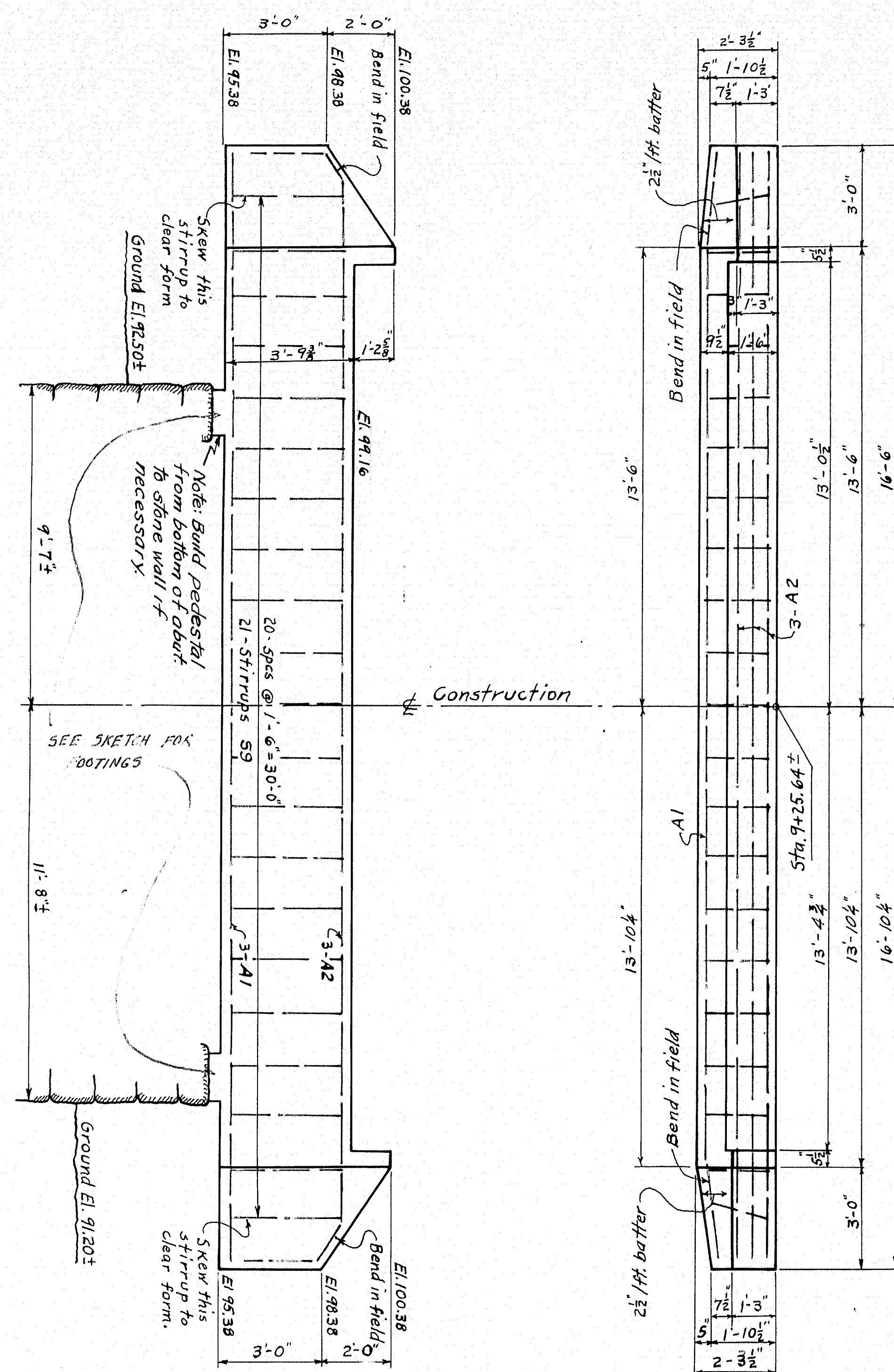
SPECIFICATIONS
Maine State Highway Commission Standard Specifications, Revision of January 1956.
DESIGN (new work)
Loading H 15-44
 $f_s = 18,000 \text{ psi}$
 $f_c = 1200 \text{ psi}$
 $n = 10$
Specs: AASHTO, 1953

DESIGN - PORTER
TRACE - CLARK
CHECK - MCD
BRIDGE NO. 5669
SURVEY
PLOT -
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
PRESUMPCOT FALLS BRIDGE
OVER
PRESUMPCOT RIVER
IN THE TOWN OF
FALMOUTH
CUMBERLAND COUNTY
GENERAL PLAN & ELEVATION
SHEET 5 OF 11 AUGUSTA, MAINE APRIL, 1956

Revised for Lighting System - Aug. 1956 Bailey & Hamilton 66-179

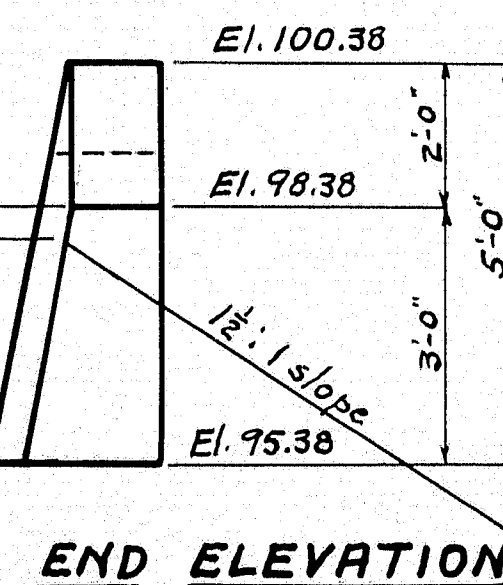
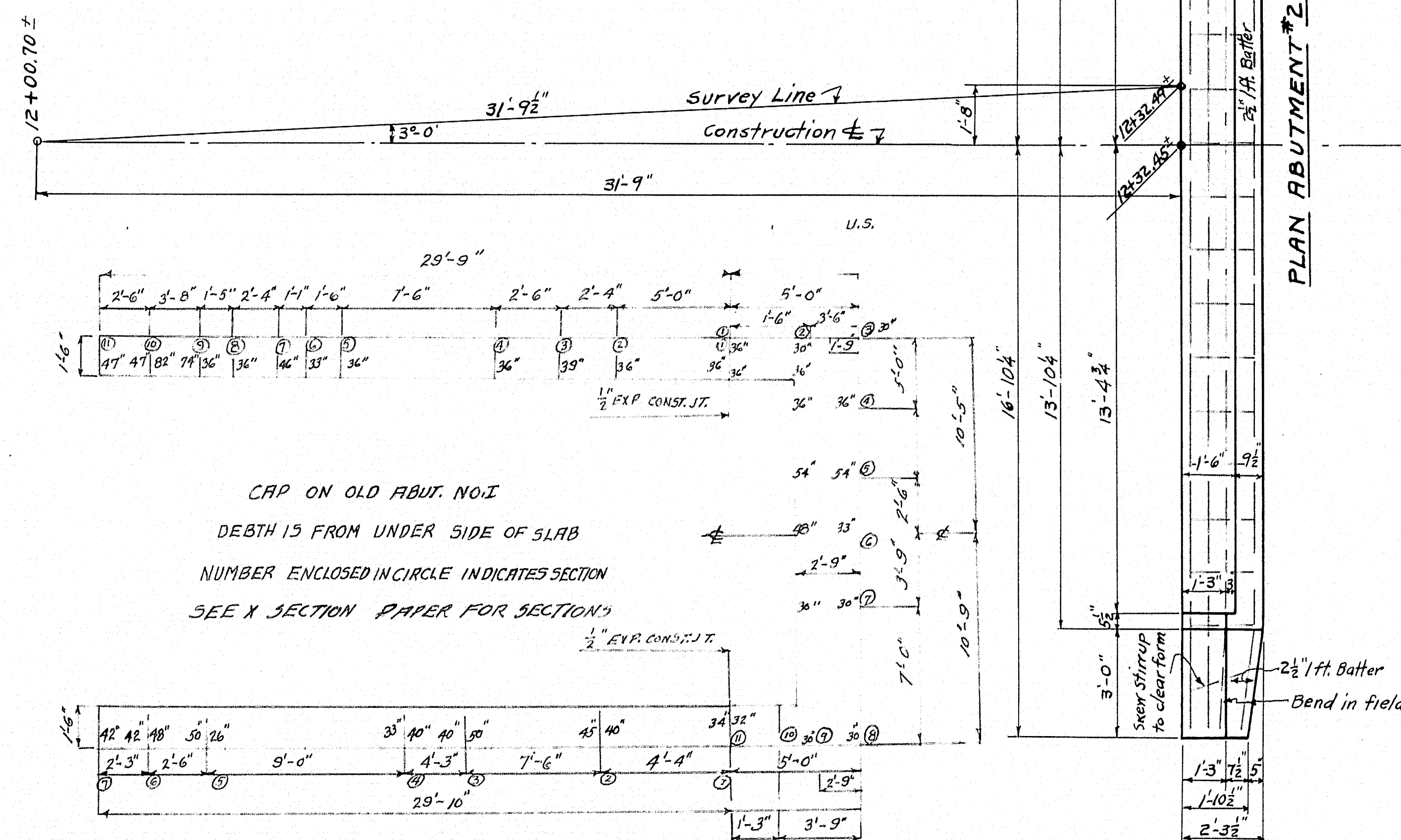
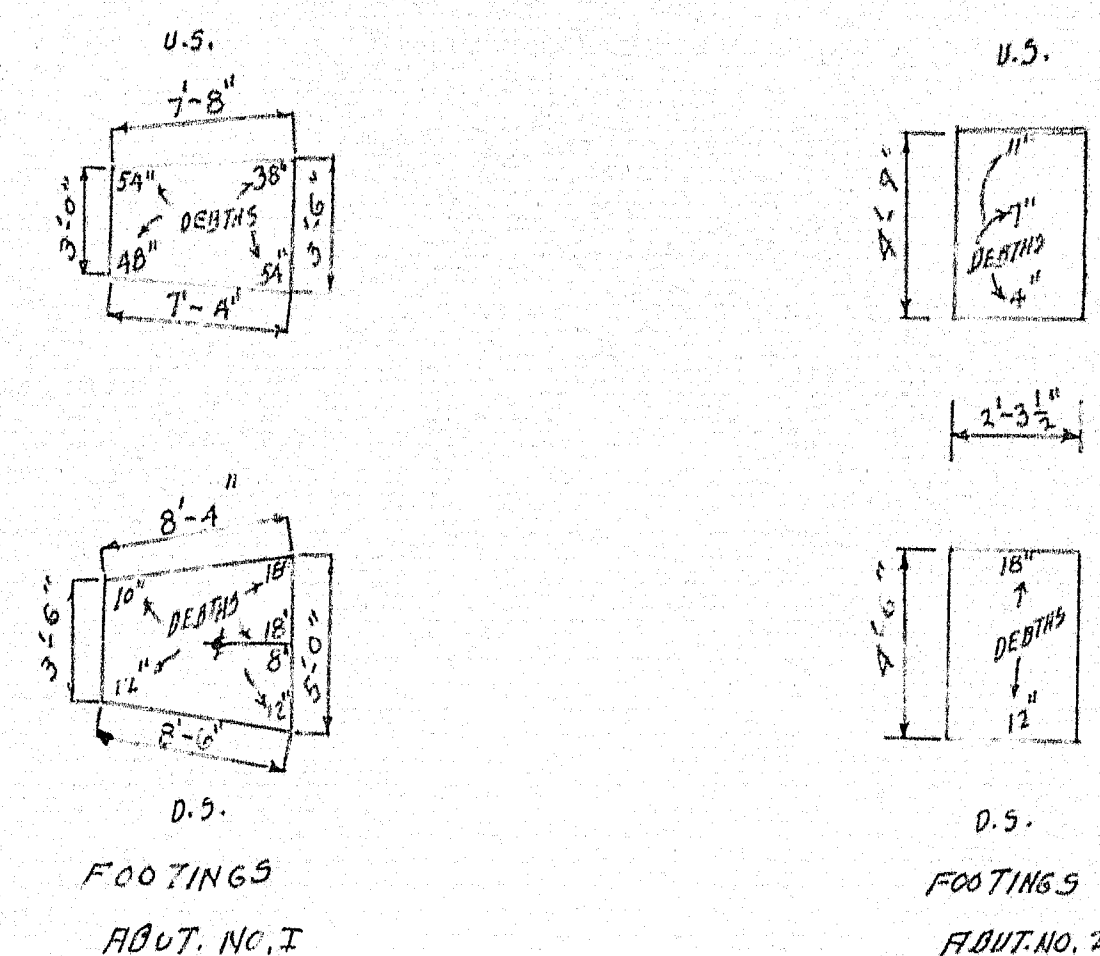
0 1 2 3 4 5 INCHES

REAR ELEVATION - ABUTMENT #1

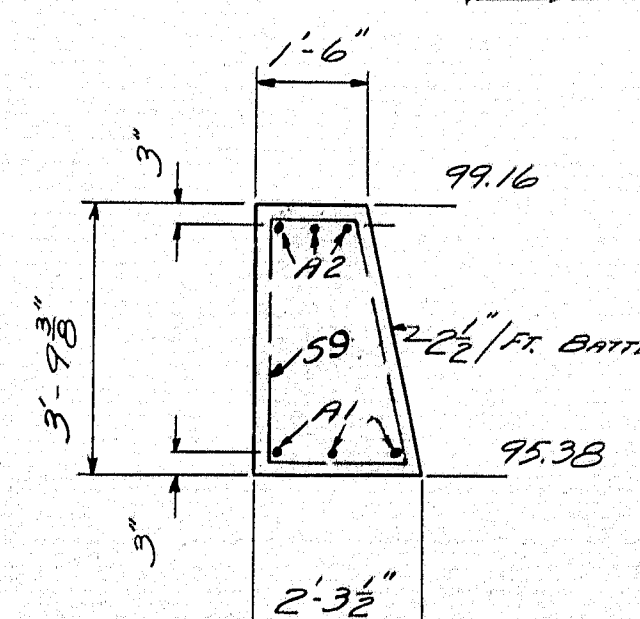


ABUTMENT SECTION

PLAN - ABUTMENT #1

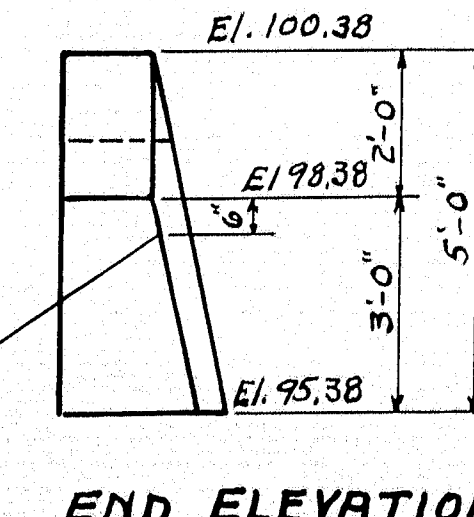
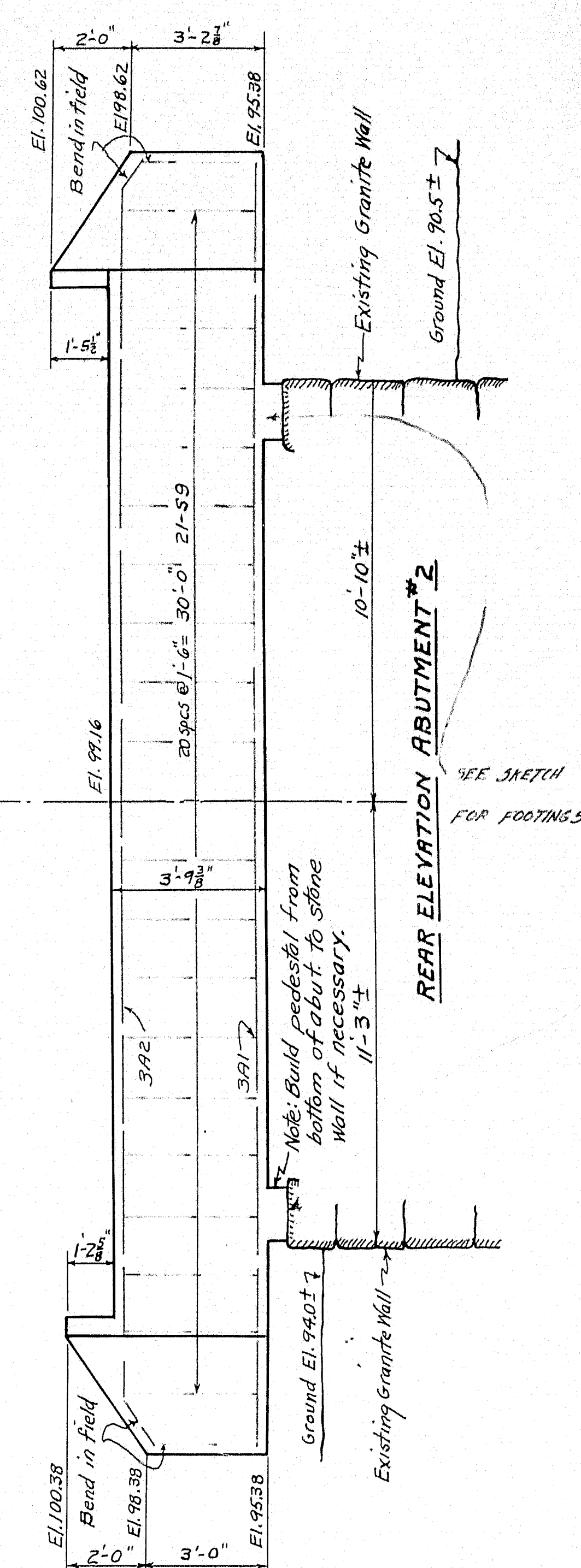


END ELEVATION



ABUTMENT SECTION

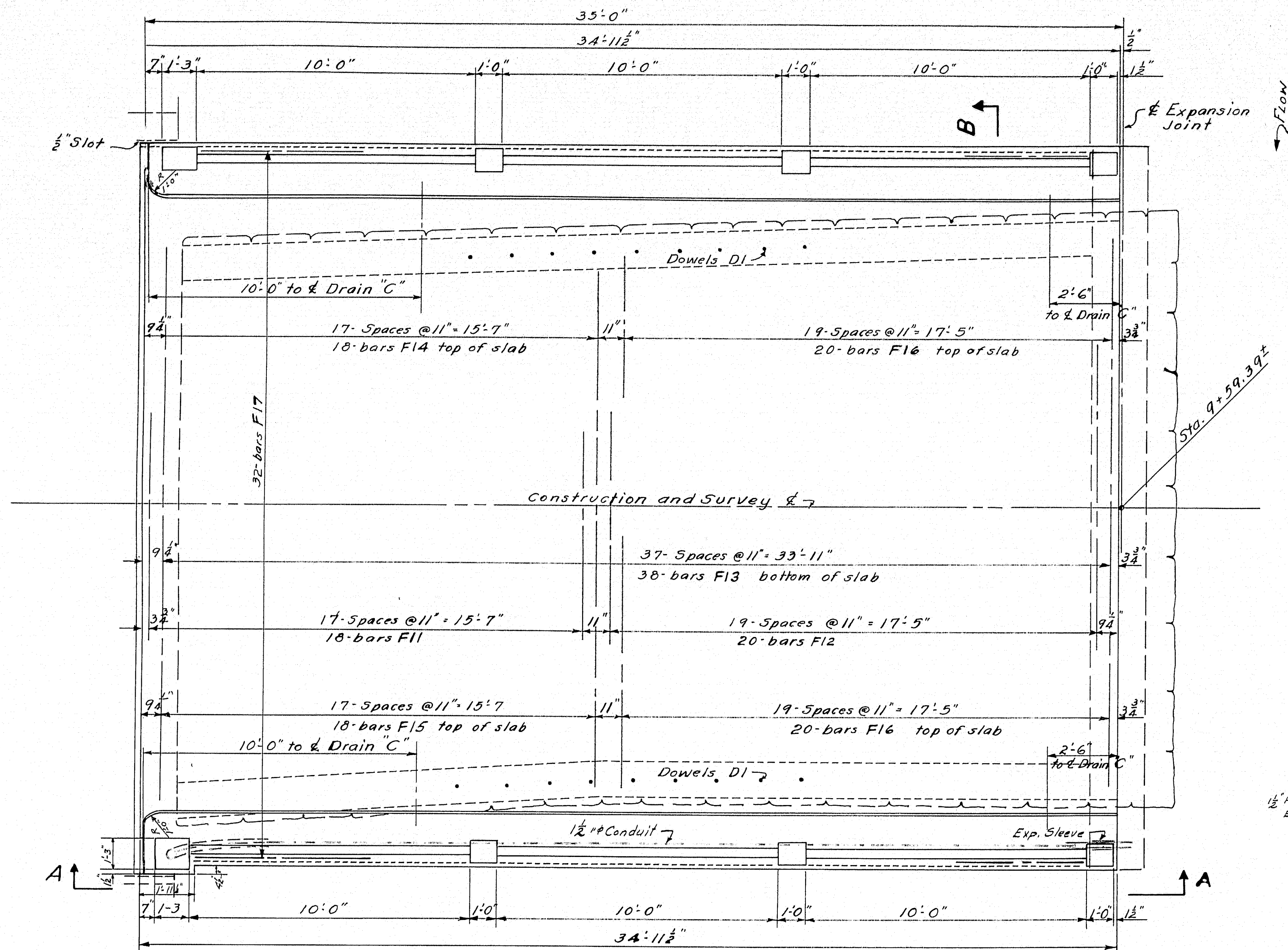
PLAN - ABUTMENT #2



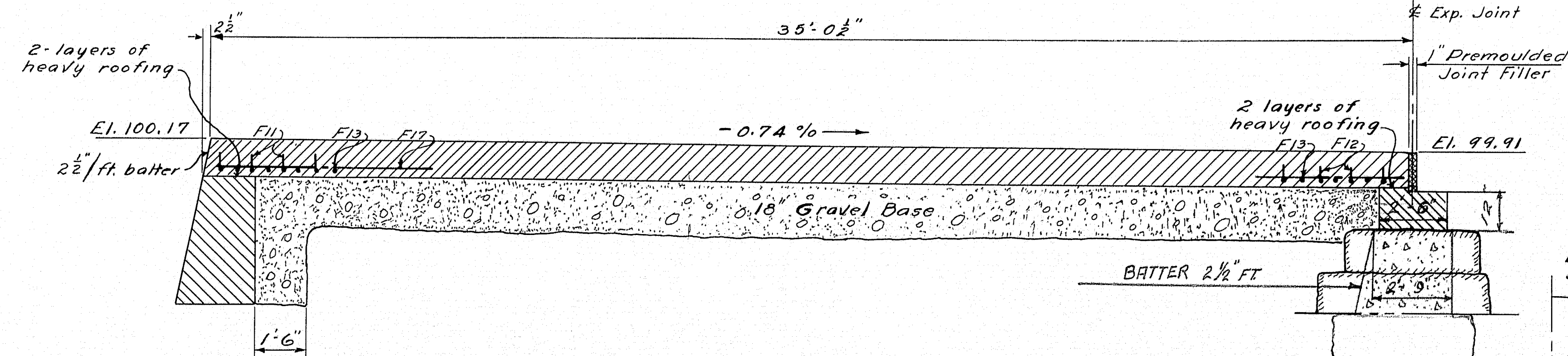
END ELEVATION

DESIGN - PORTER
TRACE - WELCH
CHECK - [signature]
BRIDGE NO. 5669
SURVEY - [signature]
PLOT - [signature]
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
PRESUMPSCOT FALLS BRIDGE
OVER
PRESUMPSCOT RIVER
IN THE TOWN OF
FALMOUTH
CUMBERLAND COUNTY
ABUTMENTS NO. 1 & 2
SHEET 6 OF 11 AUGUSTA, MAINE APRIL, 1956

Revised for Lighting System - Aug. 1956 Barley Hamilton

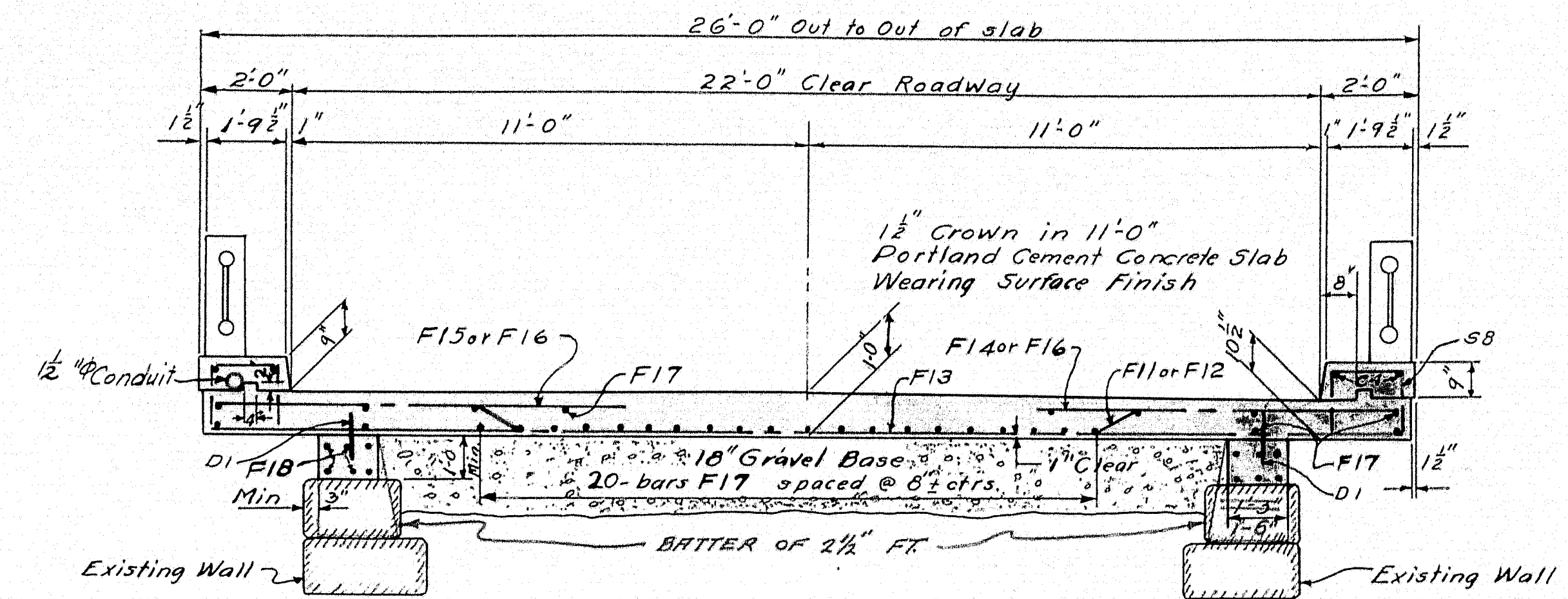


PLAN



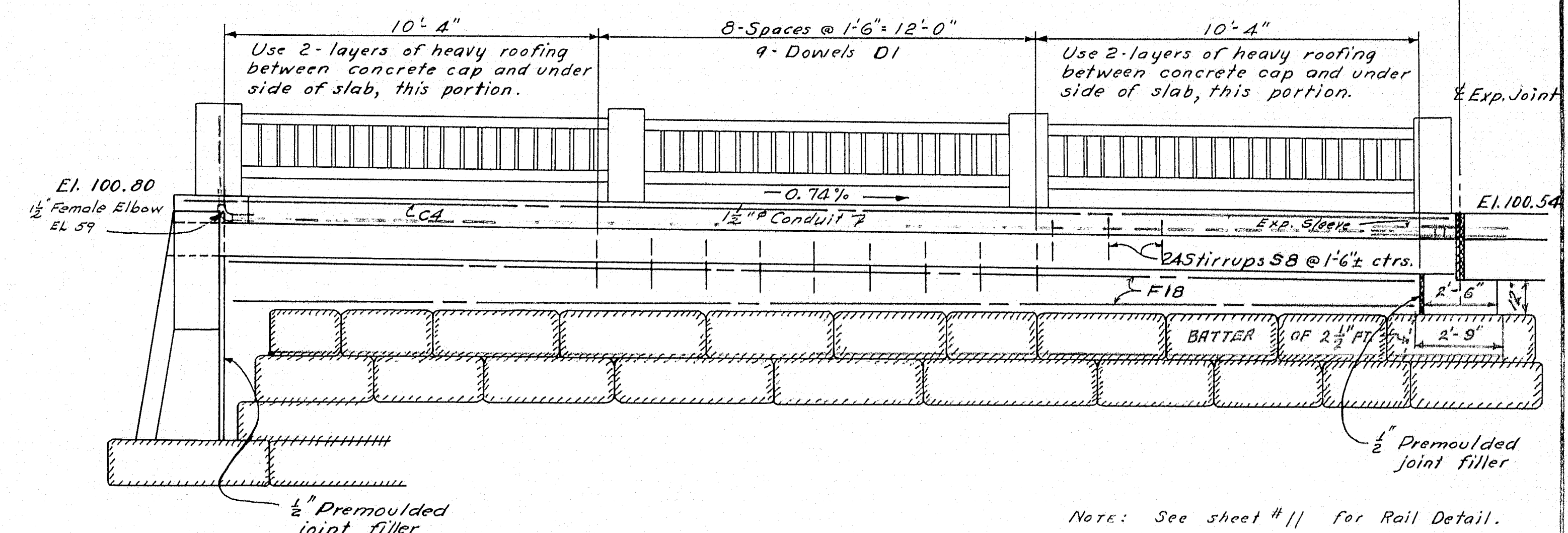
**LONGITUDINAL SECTION
AT CONSTRUCTION**

NOTE: Cover the $\frac{1}{2}$ " slots and the joint between the superstructure and substructure on the back side with two layers of heavy roofing 10" wide. Coat the concrete and the contact surfaces with a suitable grade of roofing cement. Recess area to be covered $\frac{1}{4}$ ".



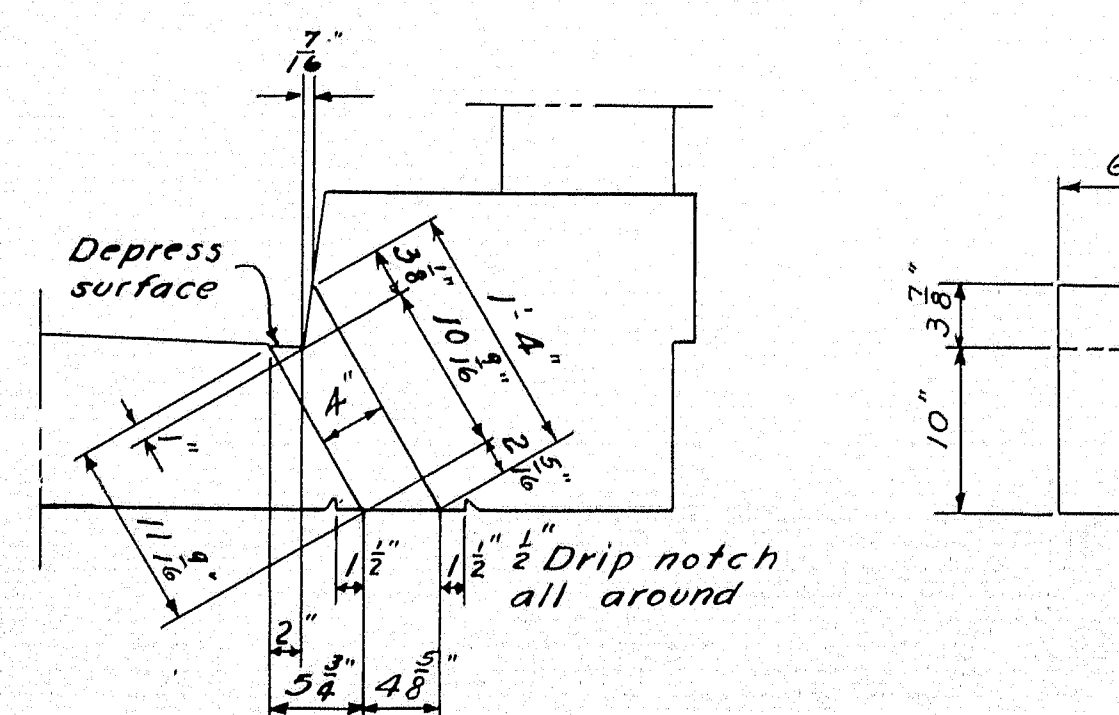
SECTION B-B

Note: Remove existing concrete curbs and sufficient courses of stone to provide 1'-0" minimum caps as detailed.



VIEW A-A

Note: See sheet #11 for Rail Detail.

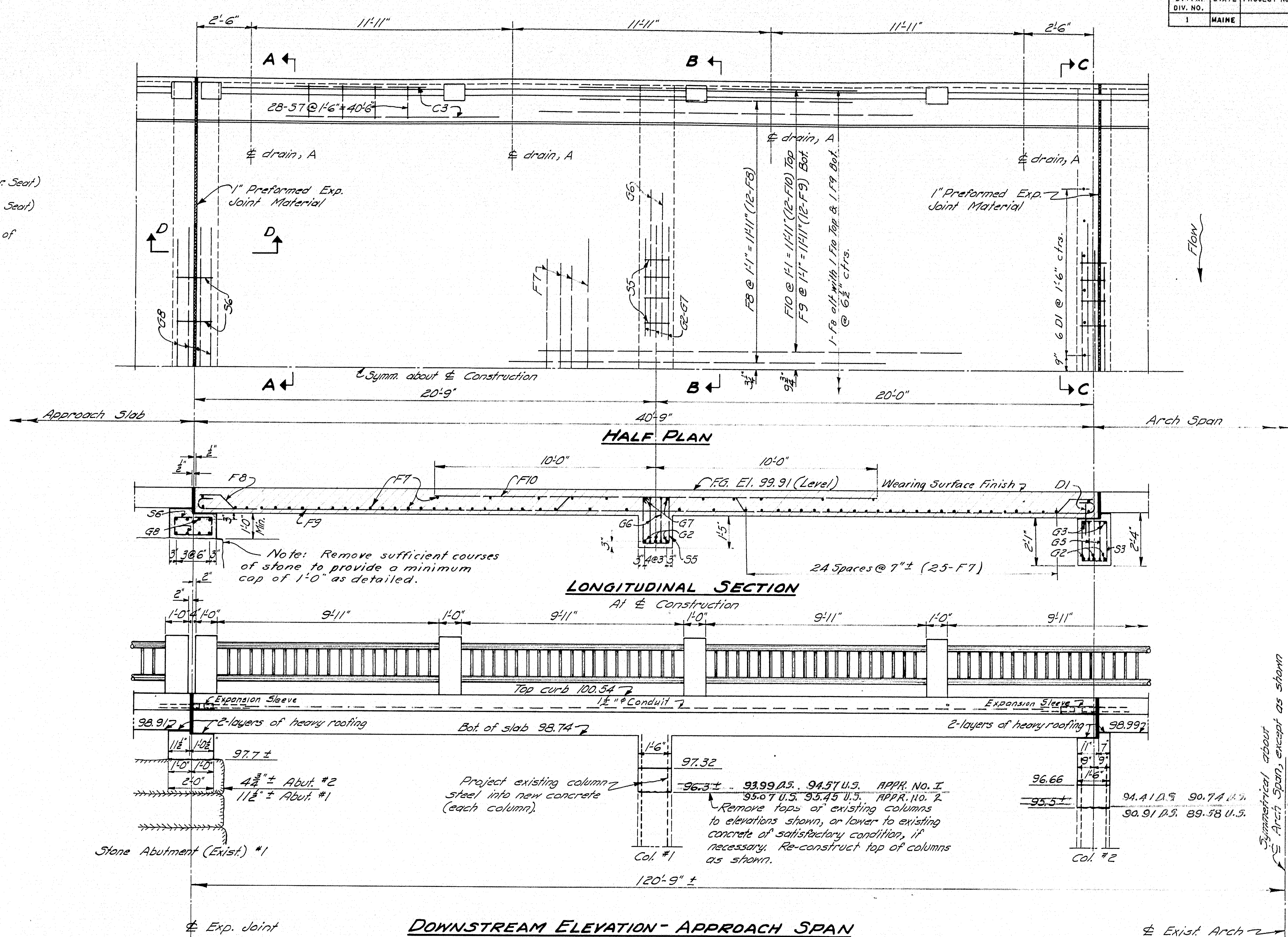
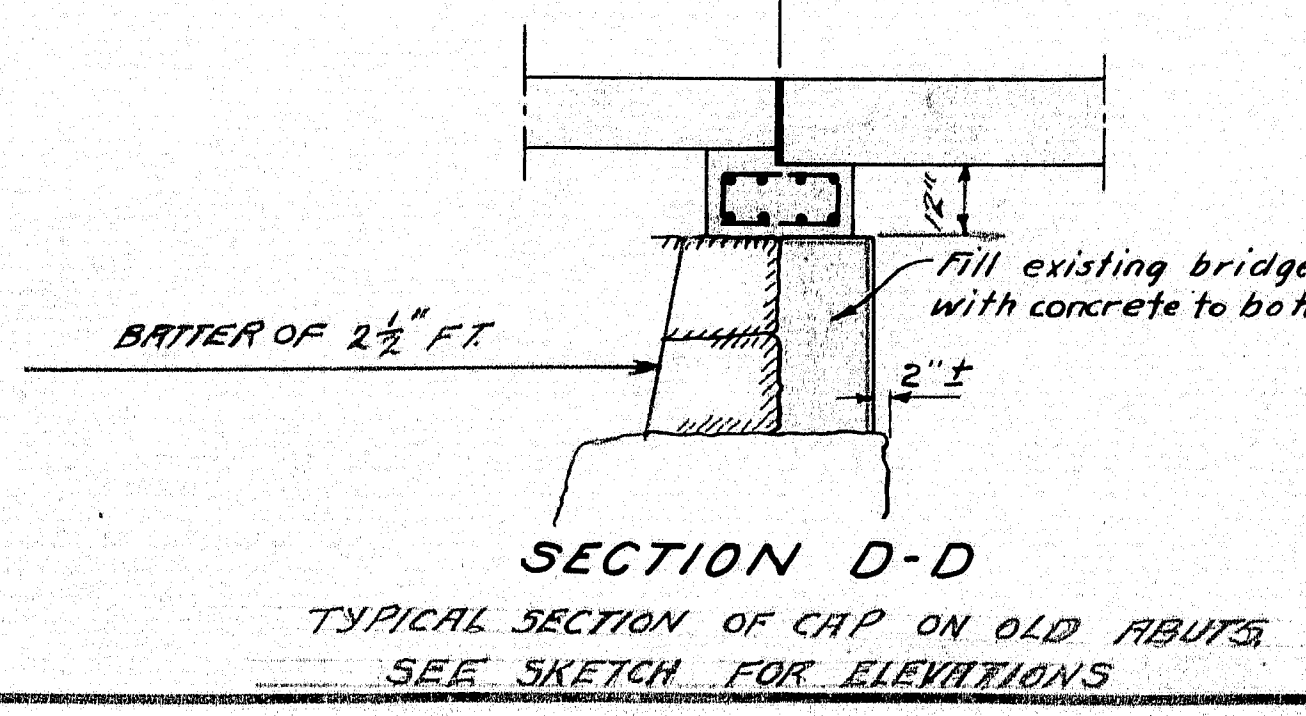
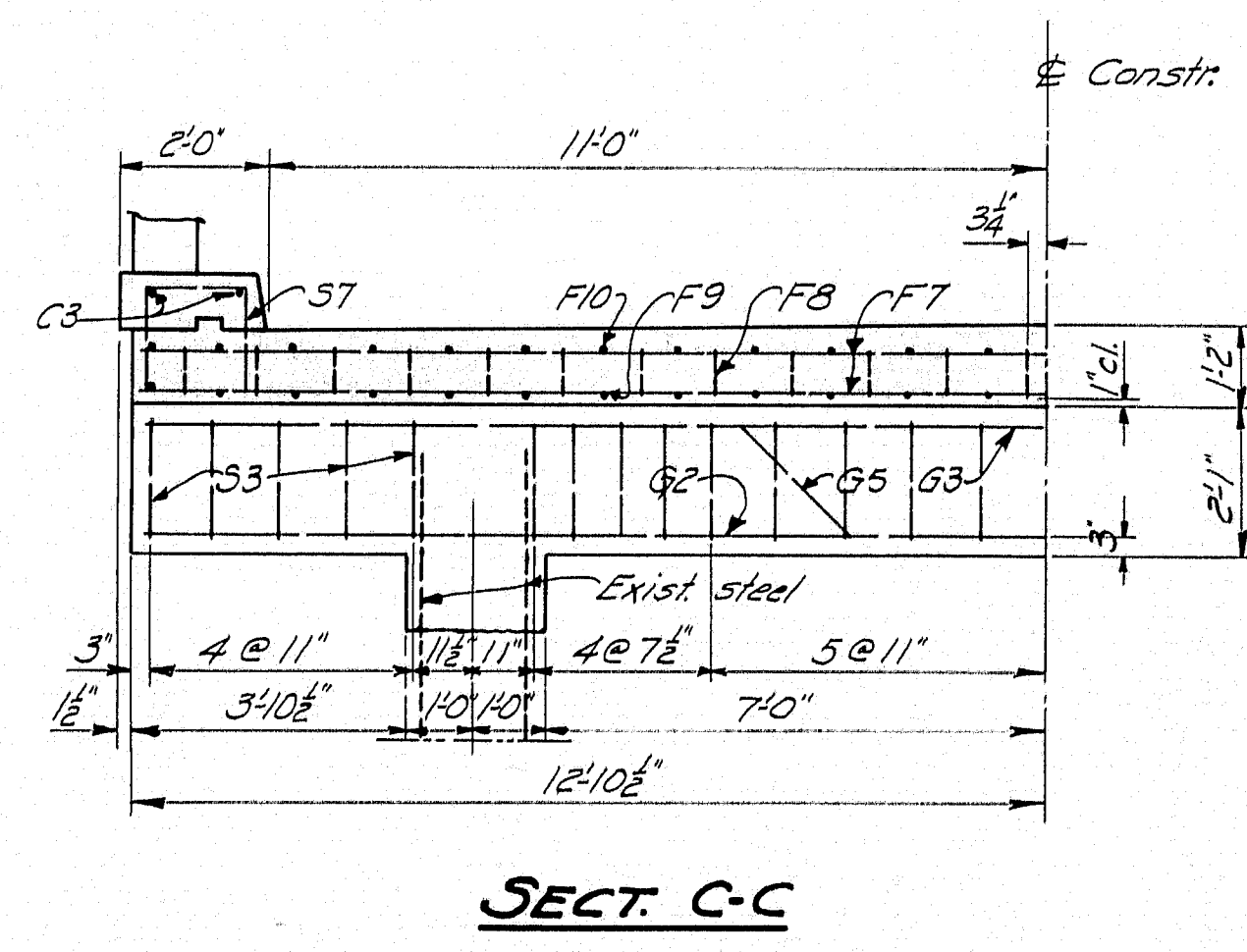
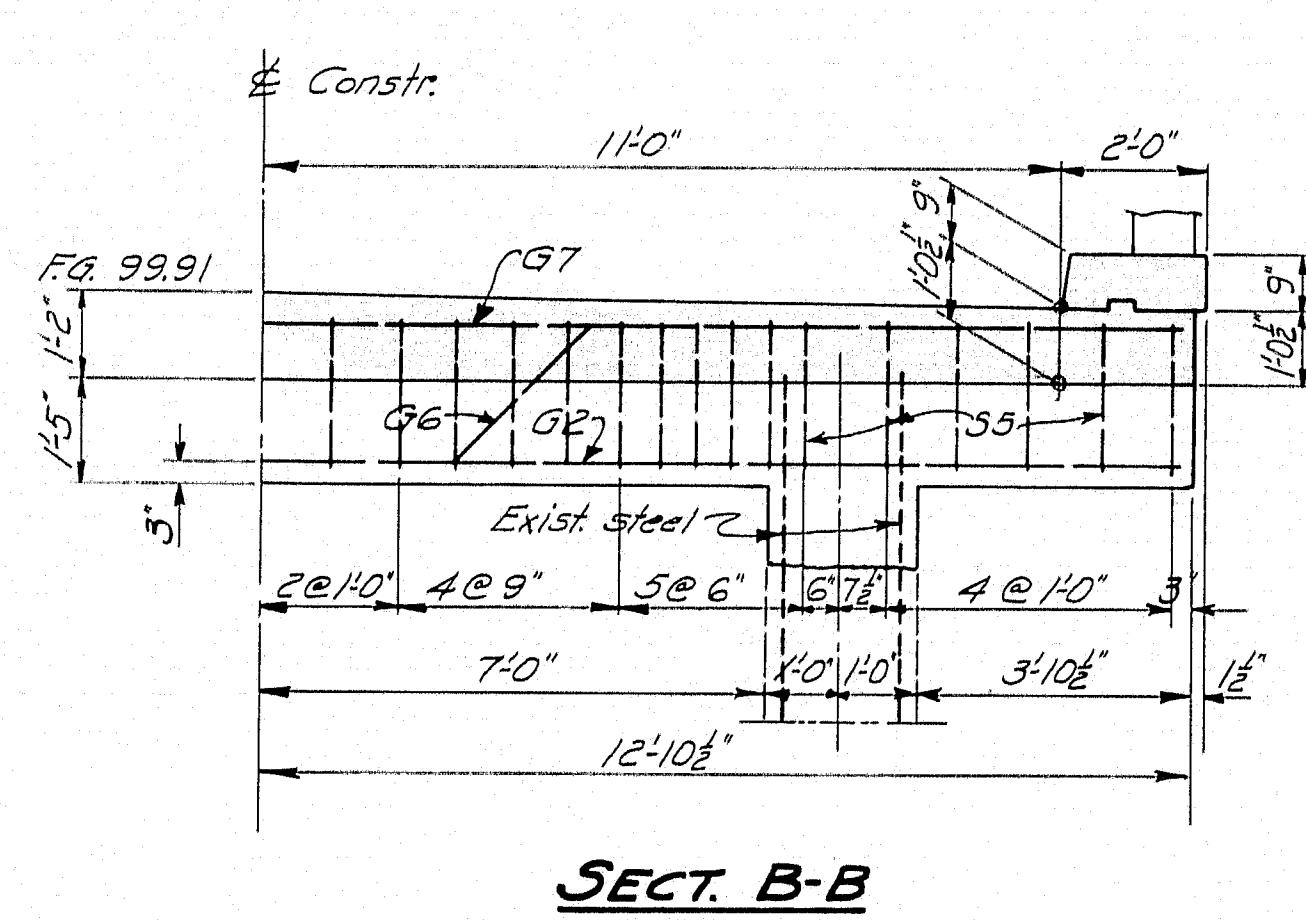
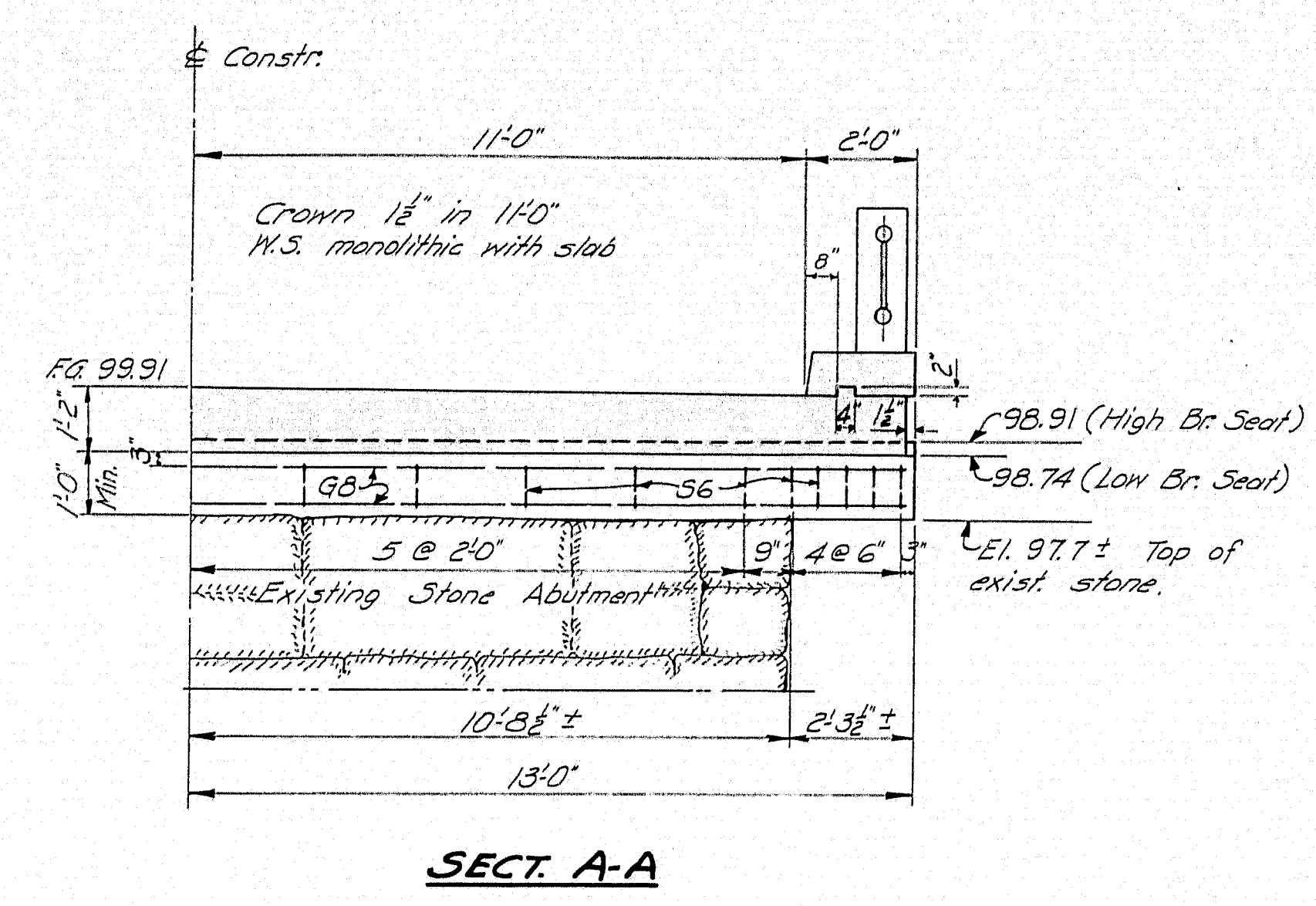


METAL DRAIN FORM "C"

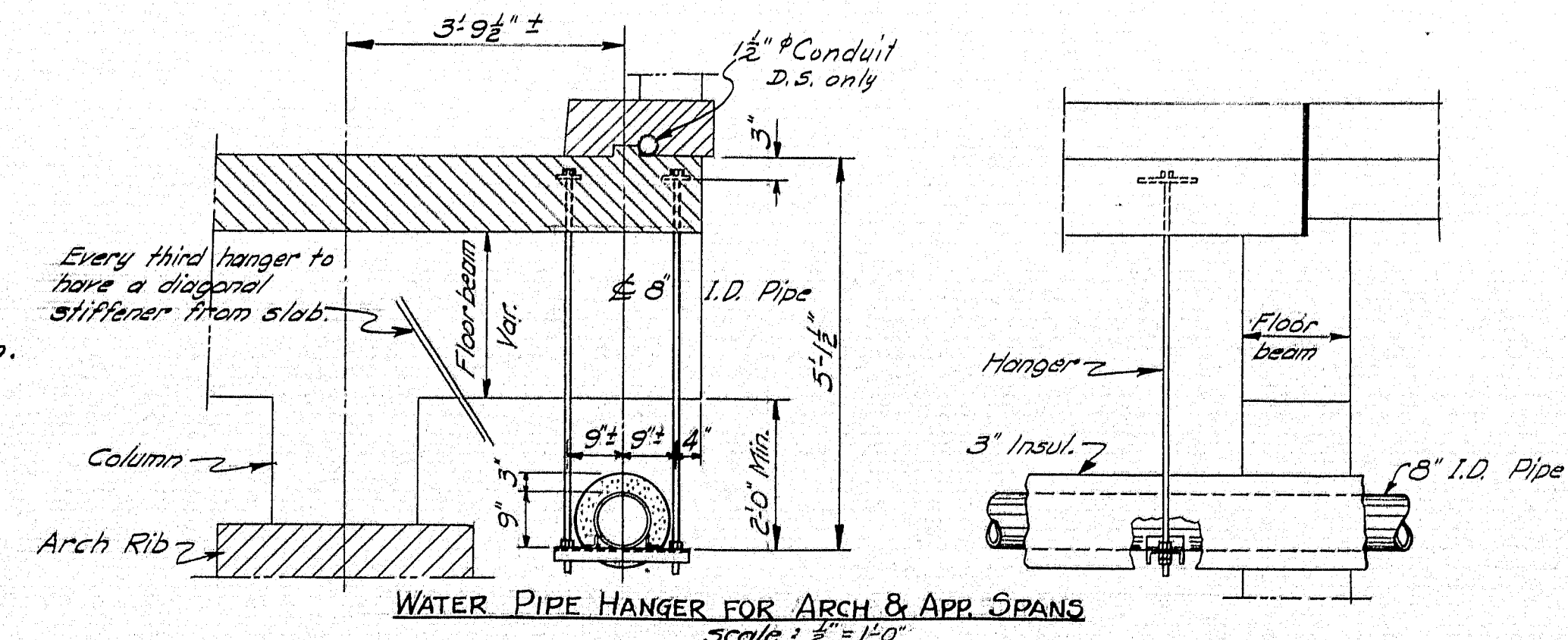
24 gage galvanized iron.
4 Required for Approach Slab #1
3 Required for Approach Slab #2

Revised for Lighting
Boiley
August 1936 v Hamilton

DESIGN - PORTER	BRIDGE NO. 5669
TRACE - SAVAGE	SURVEY -
CHECK -	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
PRESUMPCOT FALLS BRIDGE	
OVER	
PRESUMPCOT RIVER	
IN THE TOWN OF	
FALMOUTH	
CUMBERLAND COUNTY	
APPROACH SLAB NO. 1	
SHEET 7 OF 11 AUGUSTA, MAINE APRIL, 1956	

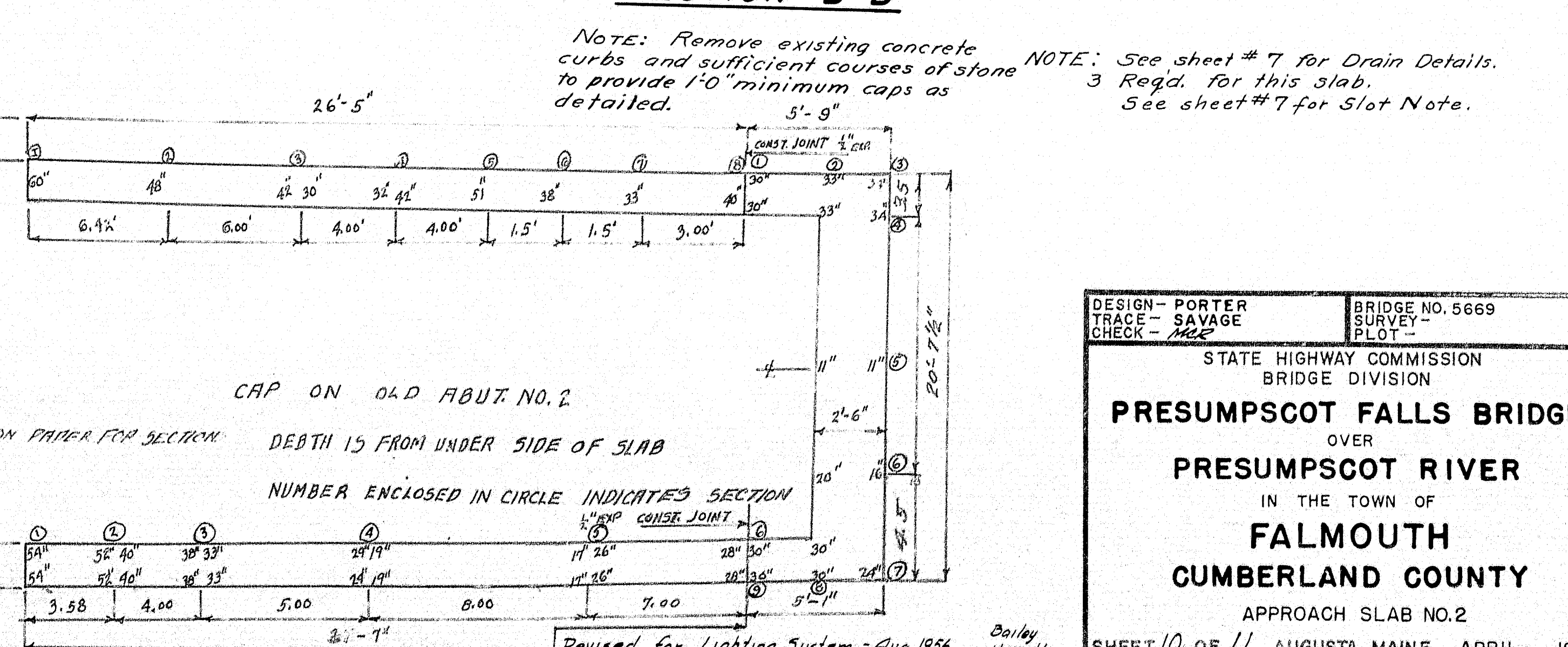
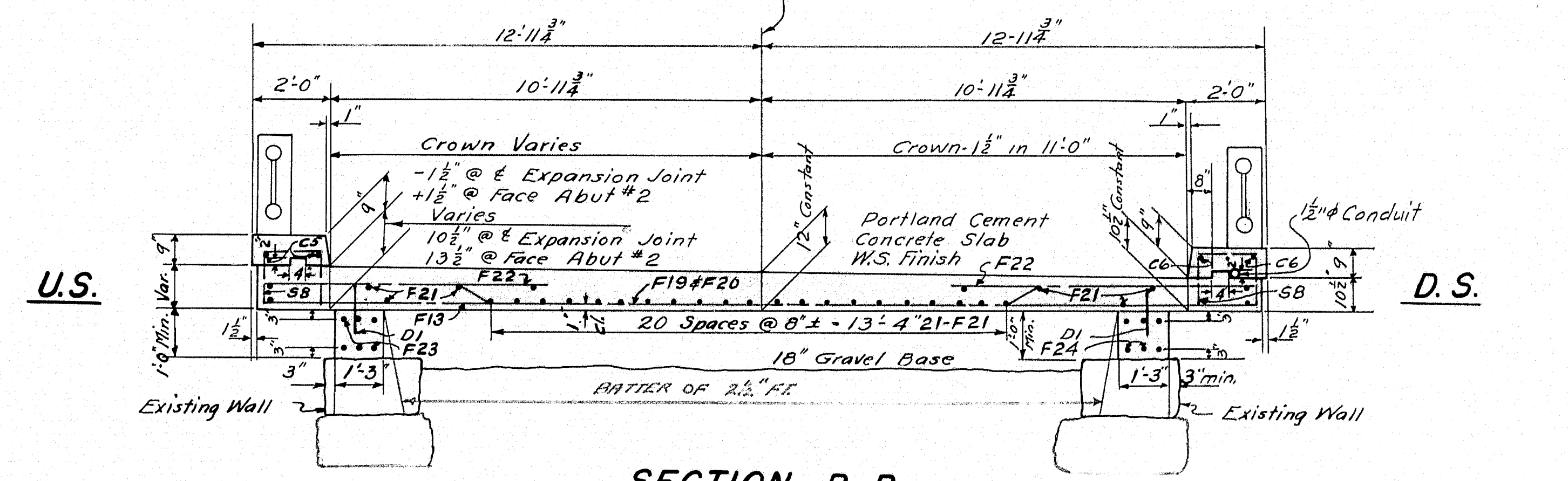
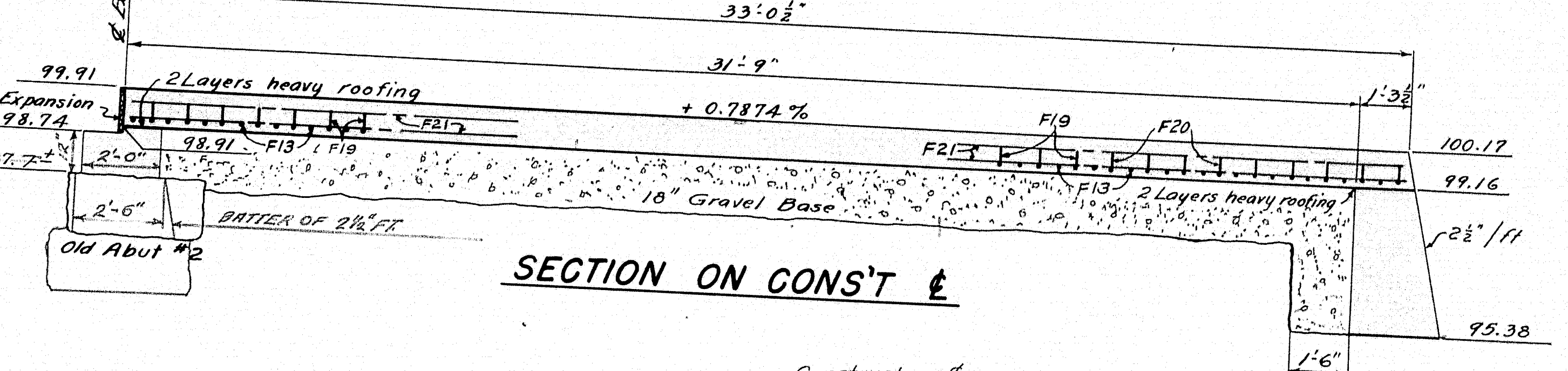
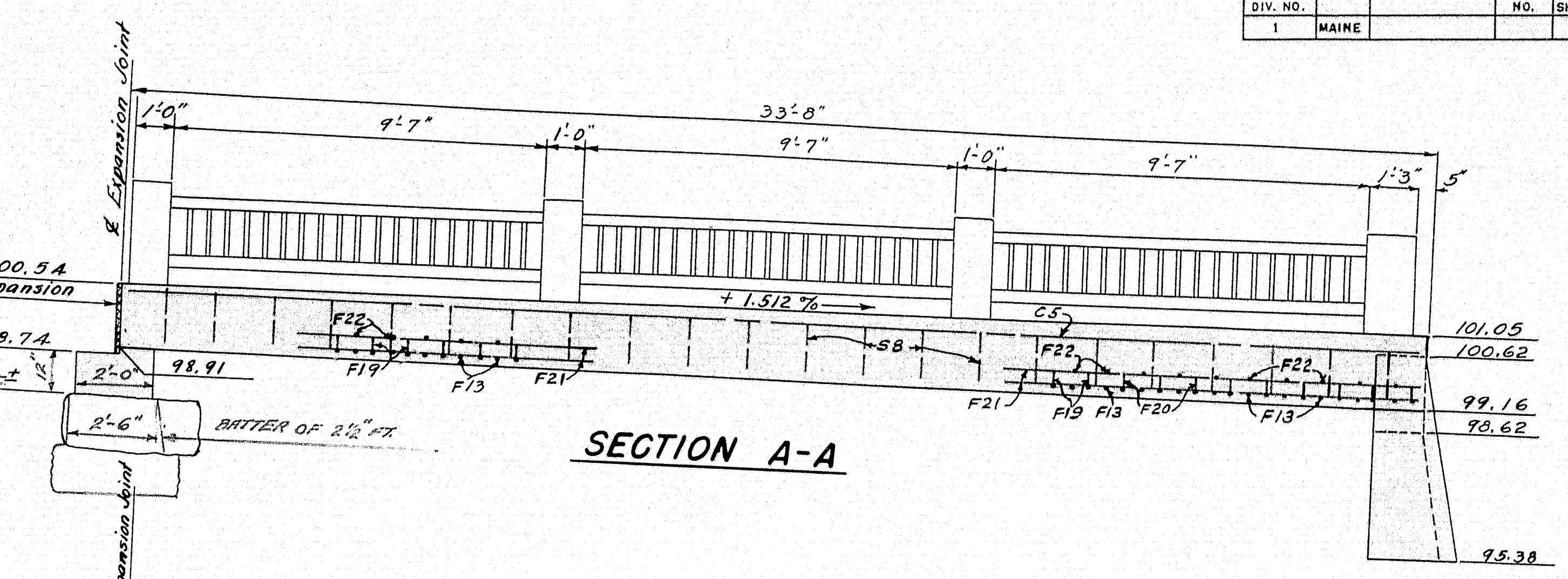
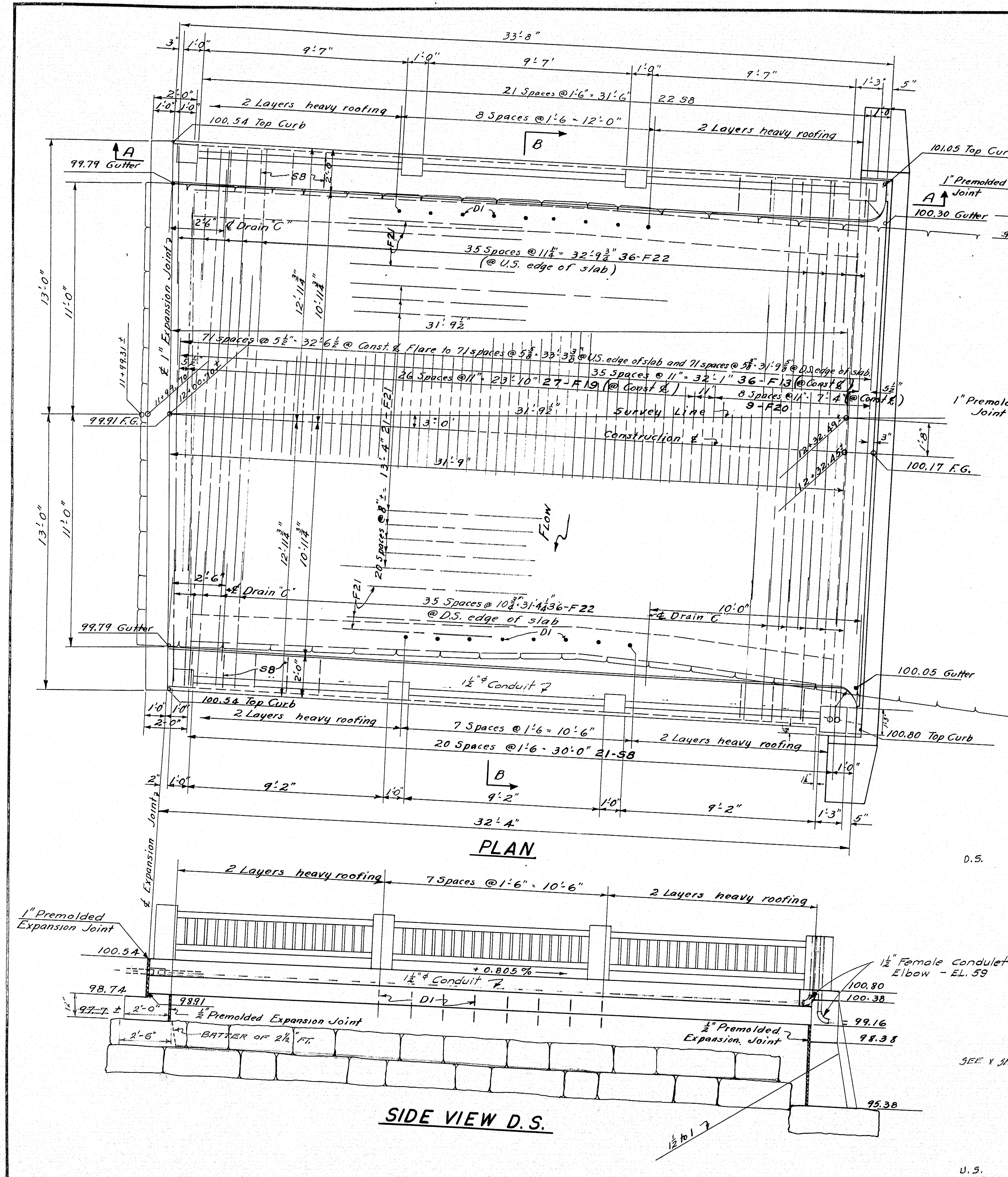


DOWNSTREAM ELEVATION - APPROACH SPAN



DESIGN - PORTER	BRIDGE NO. 5669
TRACE - CLARK	SURVEY -
CHECK -	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
PRESUMPCOT FALLS BRIDGE	
OVER	
PRESUMPCOT RIVER	
IN THE TOWN OF	
FALMOUTH	
CUMBERLAND COUNTY	
SUPERSTRUCTURE - APPROACH SPANS	
SHEET 8 OF 11 AUGUSTA, MAINE APRIL 1956	

Revised for Lighting System - Aug. 1956 Bailey Hamilton



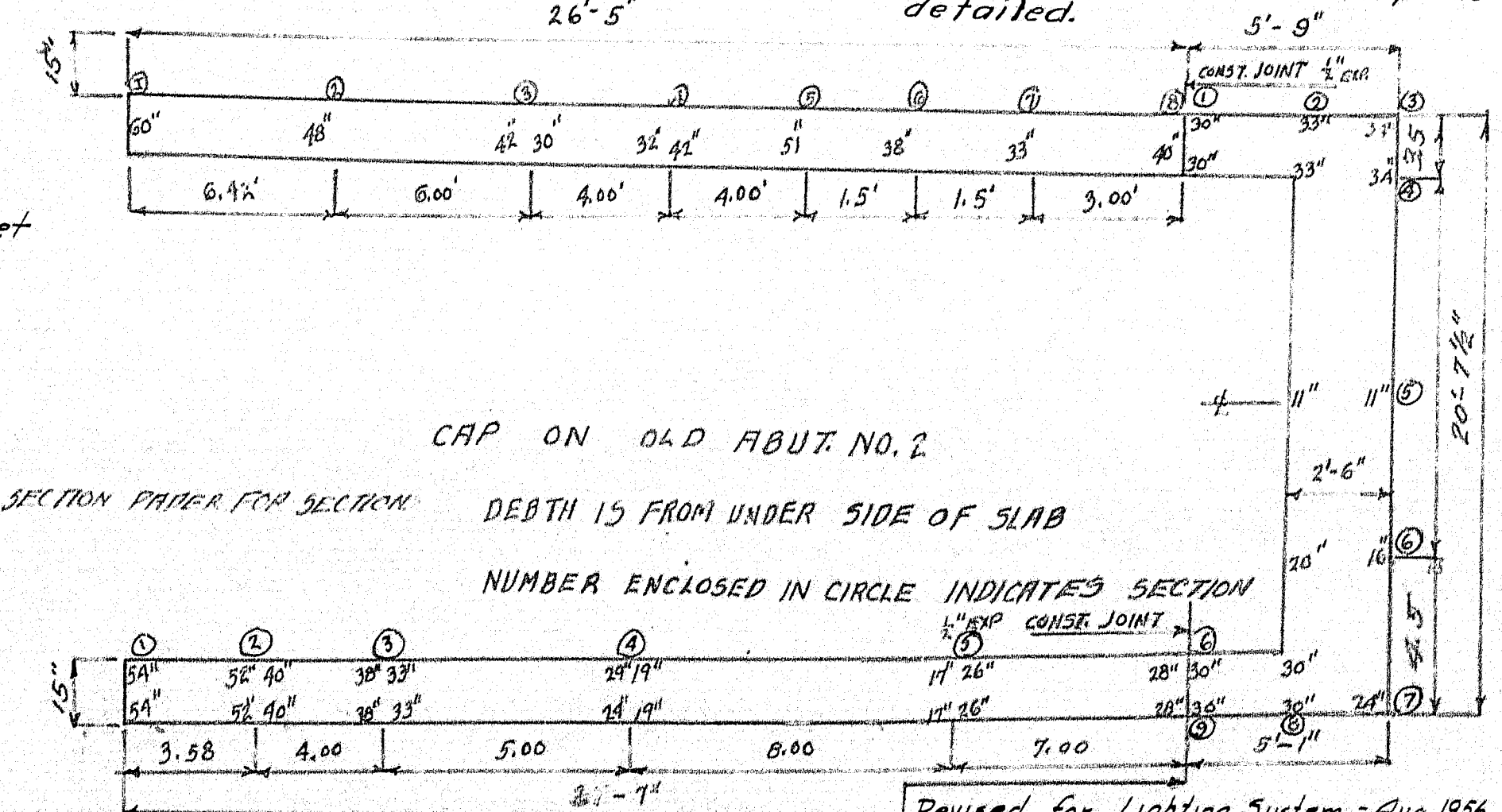
D.S.

SEE X SECTION PAPER FOR SECTION

U.S.

NOTE: Remove existing concrete curbs and sufficient courses of stone to provide 1'-0" minimum caps as detailed.

NOTE: See sheet # 7 for Drain Details. 3 Req'd. for this slab. See sheet # 7 for Slot Note.



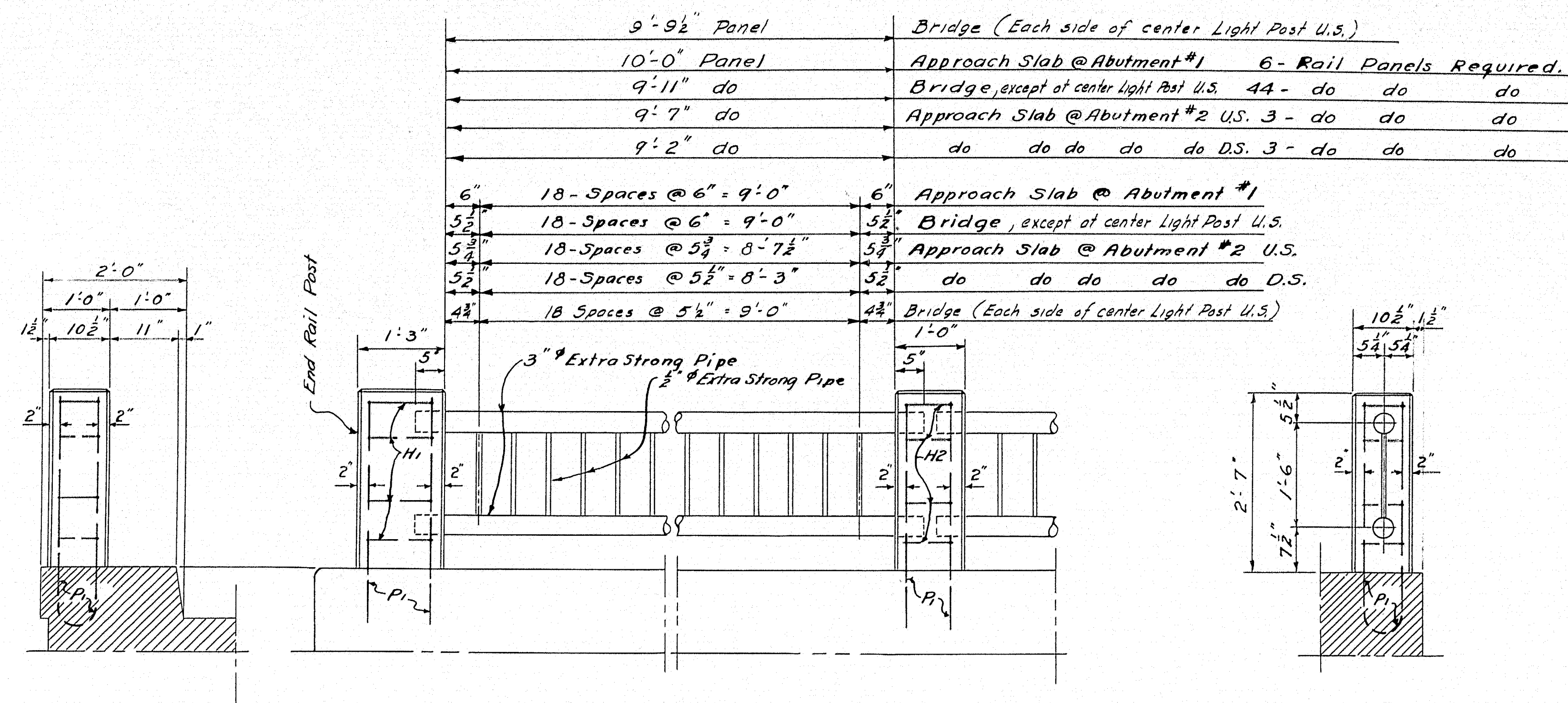
DESIGN - PORTER
TRACE - SAVAGE
CHECK - [Signature]

BRIDGE NO. 5669
SURVEY - [Signature]
PLOT - [Signature]

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PRESUMSCOT FALLS BRIDGE
OVER
PRESUMSCOT RIVER
IN THE TOWN OF
FALMOUTH
CUMBERLAND COUNTY
APPROACH SLAB NO. 2

SHEET 10 OF 11 AUGUSTA, MAINE APRIL, 1956



RAIL DETAILS

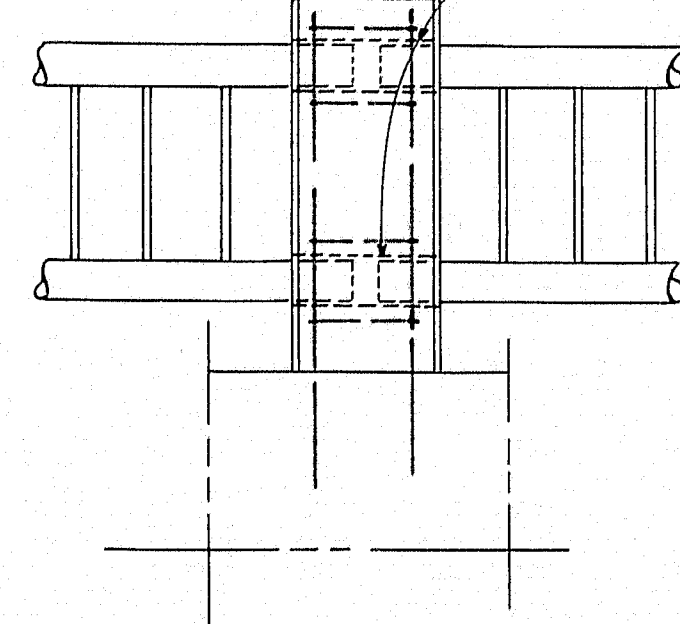
RAIL GRADES

Approach Slab @ Abutment #1 -0.74 %
 Approach Spans and Arch Span Level.
 Approach Slab @ Abutment #2 U.S. +1.512 %
 do do do do D.S. +0.805 %

Construct rail to grade shown.
NOTES: Rail posts and pales to be vertical and tops of posts to be level.
Chamfer all exposed edges of concrete $\frac{1}{2}$ " inch. Wrap ends of 3" pipe, except at expansion joints, that extend into posts with two layers of heavy roofing. $\frac{3}{8}$ " holes for $\frac{1}{2}$ " pipe, to be drilled in the 3" pipe so that the $\frac{1}{2}$ " pipe will extend thru the wall of the 3" pipe. The $\frac{1}{2}$ " pipe to be fillet welded, top and bottom to the 3" pipe. All exposed joints shall be finished by grinding or filling to give a neat appearing job.
Rail details to be submitted, by the contractor, for approval before fabrication is started.

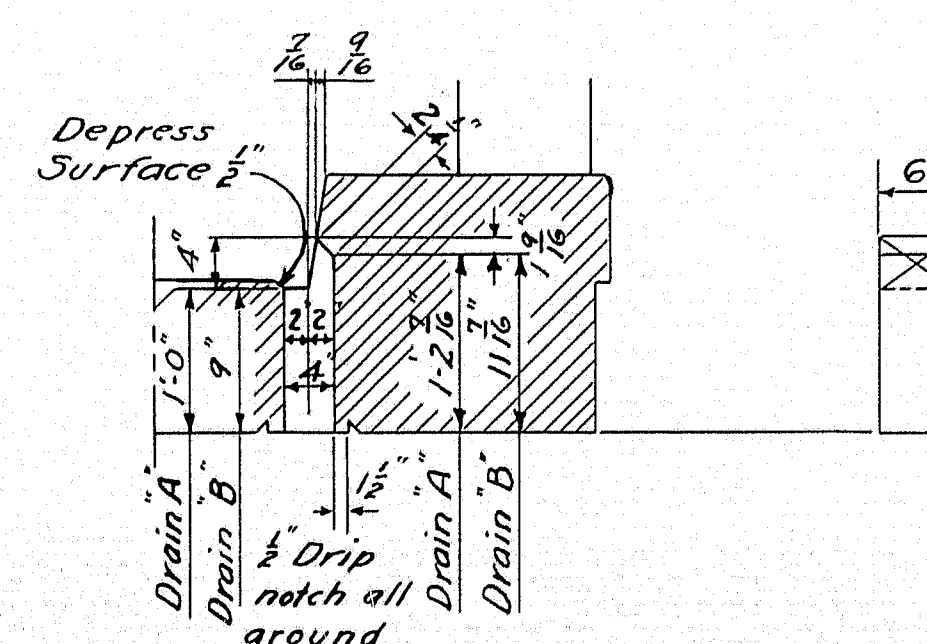
See sheet # 11A for Rail Details of Posts supporting Lights. (Two end posts D.S. & center interior post U.S.

Pipe Sleeve - $3\frac{1}{2}" \phi$ Standard Pipe 1'-0"
24 Required



RAIL DETAIL AT EXPANSION POINTS

For location of Expansion
Points see sheet #9

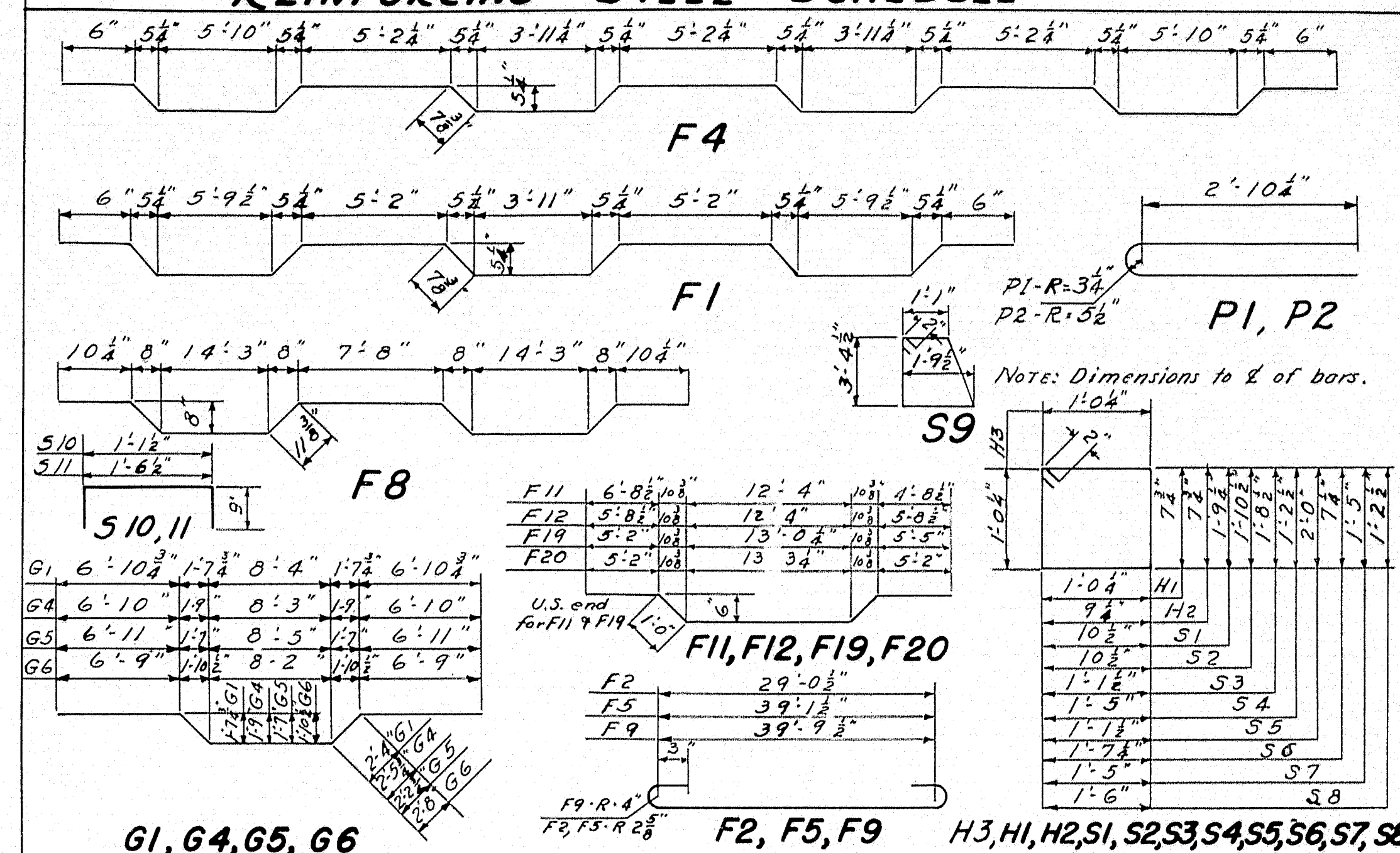


DETAIL METAL DRAIN FORM A&B

24 gage galvanized iron
Drain "A" 16 required.
Drain "B" 32 required.
See sheet #8 & #9 for location.

Revised for Lighting System - Aug. 1956 Bailey
✓ Hamilton

REINFORCING STEEL SCHEDULE



BENT BARS					BENT BARS				
MARK	NO.	SIZE	LENGTH	LOCATION	MARK	NO.	SIZE	LENGTH	LOCATION
F1	96	6	30'-6 $\frac{1}{2}$ "	Slab Arch Span	*H2	228	3	3'-2"	Int. Rail Posts
F2	96	6	30'-11"	" " " "	S1	286	4	5'-7 $\frac{1}{2}$ "	Fl. Bms. Arch Span
F4	24	6	41'-0 $\frac{1}{2}$ "	" " " "	S2	100	4	5'-10"	" " " "
F5	24	6	41'-0"	" " " "	S3	58	4	6'-0"	" " " "
F8	48	8	41'-8"	" App. Span	S4	214	4	5'-7"	Curbs " "
F9	48	8	42'-5"	" " " "	S5	66	4	6'-7"	Fl. Bms. App. Span
F11	18	7	23'-9"	App Slab @ Abut. 1	S6	42	4	4'-9"	Abut. Caps
F12	20	7	23'-9"	" " " " 1	S7	112	4	6'-0"	Curbs App. Span
F19	27	7	25'-7 $\frac{1}{2}$ "	" " " " 2	S8	91	4	5'-9"	Curbs-App Slab @ Abut. 1 & 2
F20	9	7	25'-7 $\frac{1}{2}$ "	" " " " 2	S9	42	4	10'-0"	Abuts 1 & 2
G1	22	9	26'-9 $\frac{1}{2}$ "	Fl. Bms. Arch Span	*P1	118	6	6'-7"	Rail Posts w/ Lights
G4	8	9	26'-10 $\frac{1}{2}$ "	" " " "	*P2	6	6	7'- $\frac{1}{2}$ "	Rail Posts w/ Lights
G5	4	9	26'-8 $\frac{1}{2}$ "	" " " "	*H3	12	3	4'-5"	Rail Posts w/ Lights
*G6	4	9	27'-0"	" " App. "	*S10	2	4	2'-8"	Curb Protrusion
*H1	8	3	3'-8"	End Rail Posts	*S11	4	4	3'-1"	" "
STRAIGHT BARS					STRAIGHT BARS				
F3	96	6	29'-7"	Slab Arch Span	G2	42	9	25'-5"	Fl. Bms. Arch & App. Span
F6	24	6	39'-8"	" " " "	G3	34	6	25'-5"	" " " "
F7	368	4	25'-5"	" Arch & App. Spans	G7	4	7	25'-5"	" " App. Spans
F10	48	9	20'-0"	" App Spans	G8	16	6	25'-9"	Abut. Caps
F13	74	7	25'-5"	App Slab @ Abuts. 1 & 2	D1	107	6	1'-4"	Slabs to Caps
F14	18	4	8'-9"	" " " " 1	A1	6	6	32'-6"	Abuts 1 & 2
F15	18	4	6'-9"	" " " " 1	A2	6	6	38'-0"	" " " "
F16	40	4	7'-9"	" " " " 1					
F17	32	4	34'-8"	" " " " 1					
F18	12	6	32'-3"	Caps Abut. 1					
F21	66	4	17'-0"	App. Slab @ Abut. 2 (Splice)					
F22	72	4	7'-6"	" " " " 2					
F23	6	6	31'-0"	U.S. Wall @ Abut. 2					
F24	6	6	29'-9"	D.S. " " " 2					
C1	16	4	29'-7"	Curbs Arch Span					
C2	4	4	39'-7"	" " " "					
C3	8	4	40'-6"	" " App. "					
C4	4	4	34'-6"	" - App Slab @ Abut. 1					
C5	2	4	33'-4"	U.S. Curb " " " " 2					
C6	2	4	32'-0"	D.S. " " " " " 2					

DESIGN - PORTER
TRACE - SAVAGE
CHECK - 1402

BRIDGE NO. 5669
SURVEY
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PRESUMPCOT FALLS BRIDGE
OVER
PRESUMPCOT RIVER
IN THE TOWN OF
FALMOUTH
CUMBERLAND COUNTY
REINFORCING STEEL & RAIL DETAILS

DESIGN - PORTER	BRIDGE NO. 5669
TRACE - SAVAGE	SURVEY -
CHECK - <i>MAZ</i>	PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

PRESUMPCOT FALLS BRIDGE
OVER
PRESUMPCOT RIVER
IN THE TOWN OF
FALMOUTH
CUMBERLAND COUNTY
REINFORCING STEEL & RAIL DETAILS

SHEET 11 OF 11 AUGUSTA, MAINE APRIL, 1956

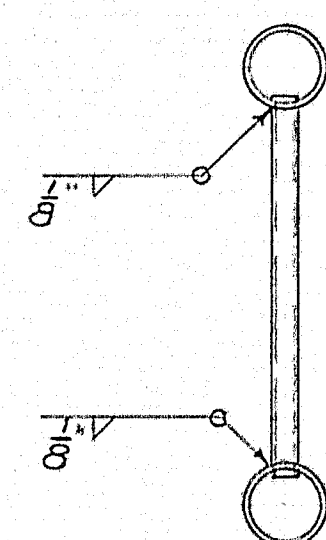


RAIL PANEL
6 REQ'D

RAIL PANEL

RAIL PANEL L
11 Road

RAIL PANEL C
3 BOARDS



TYPICAL SECTION

Notes:
Pales to be vertical
Drill $\frac{1}{8}$ " holes in 3" pipe for pales
Pales to extend thru wall of 3" pipe
All joints to be finished by filling or grinding
to give a neat appearing surface.

SHOP CONNECTIONS: *Welded*
FIELD CONNECTIONS:
HOLES: *1 5/8" Ø*
PAINT: *M.S.H.C Specs. Red Lead*
Pay Length of Rail - 615.58 Lin.Ft.

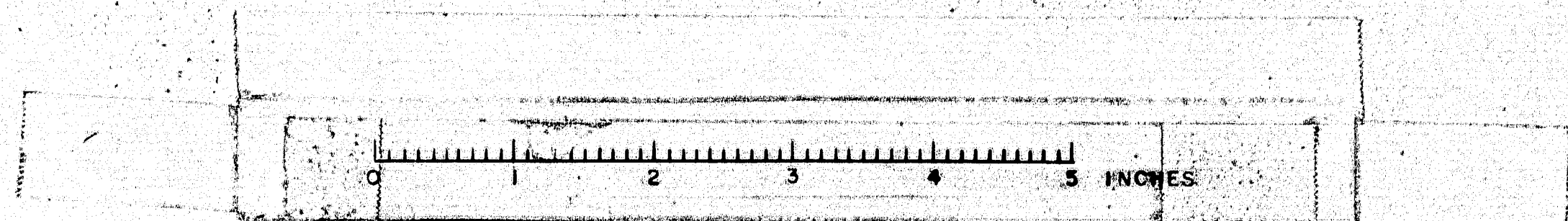
BRIDGE RAIL
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

PRESUMPSCOT FALLS BRIDGE
FALMOUTH, ME.

CUSTOMER C.W. BAGLEY
DESIGNER M.S.H.C.

ORDER NO. _____	DWG. NO. <u>6-223-51</u>
-----------------	--------------------------

66-18666-184H



GENERAL NOTES

All rigid conduit and fittings are those listed in Wesco Catalog No. 100, Crouse-Hinds Catalog No. 3300 and Crane Catalog No. 49. The references to catalog number serve only as a guide. Substitution may be made provided they are equivalent and are approved by the Underwriters Laboratories Inc., and by the Engineer.

Provision shall be made for effective drainage of all conduit at locations where moisture may collect within them. Drains to be made from No. 264E reducing tees (or equivalent) $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ with $\frac{1}{2}$ " galvanized pipe extending $\frac{1}{2}$ " below concrete. One drain to be located at each light and elsewhere as needed.

All rigid conduit to be galvanized and all threads are to be red leaded.

Conduit which is to be laid in earth shall be painted with two coats of asphaltic paint. Underground conduit shall be laid to drain at power pole.

A galvanized steel pull wire #12 gauge shall be installed in each conduit line.

All light standards to be set plumb.

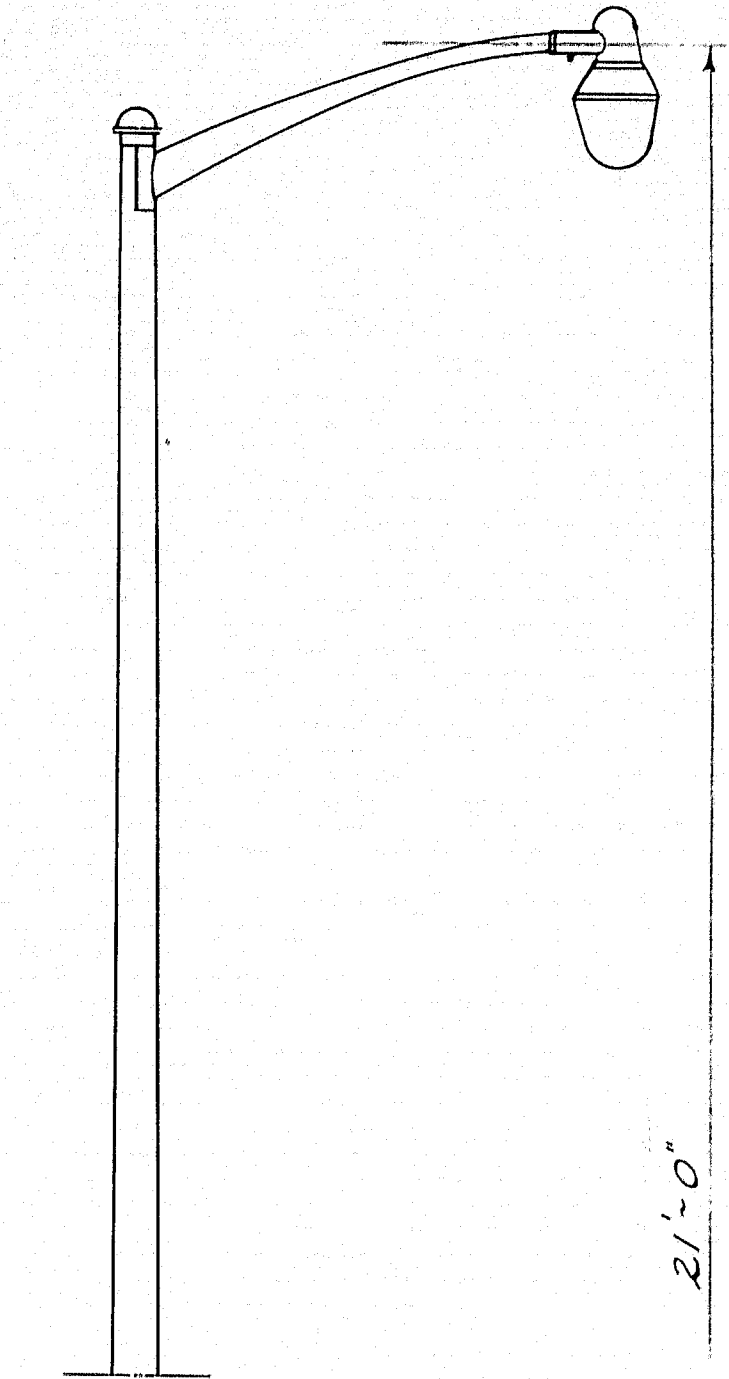
Coat all surfaces that come in contact with Aluminum light standards, including concrete, bolts, nuts, etc. with an Aluminum Impregnated Caulking Compound.

Bushings to be installed on all conduit terminations.

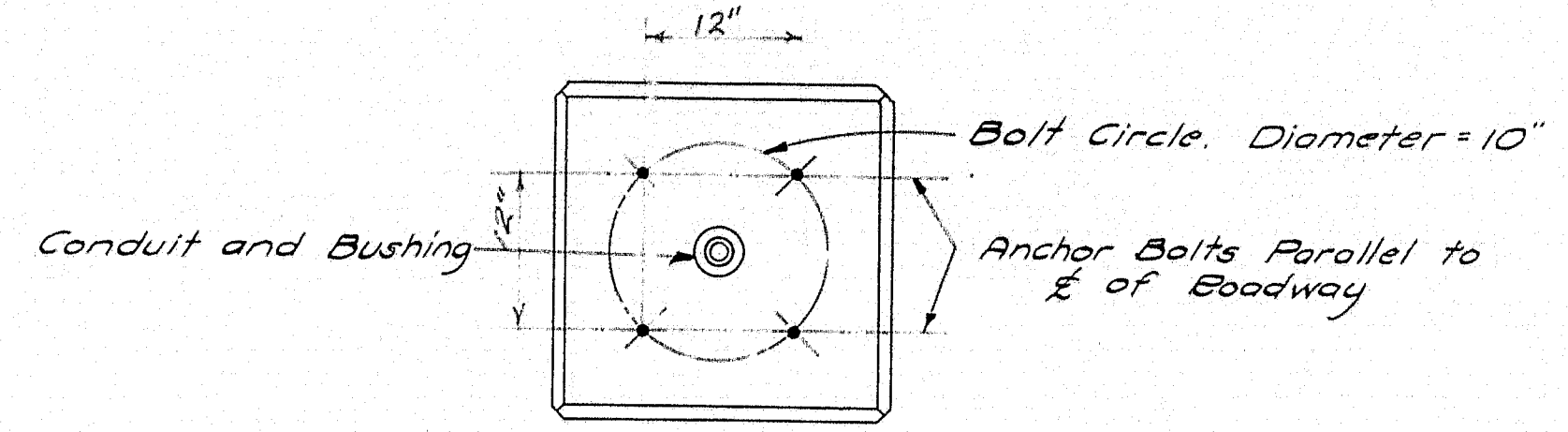
A weather-proof fuse box shall be mounted on pole at source of power and be supplied with lock and two keys.

Conduit entrance at source of power shall be protected with a suitable conduit entrance cap.

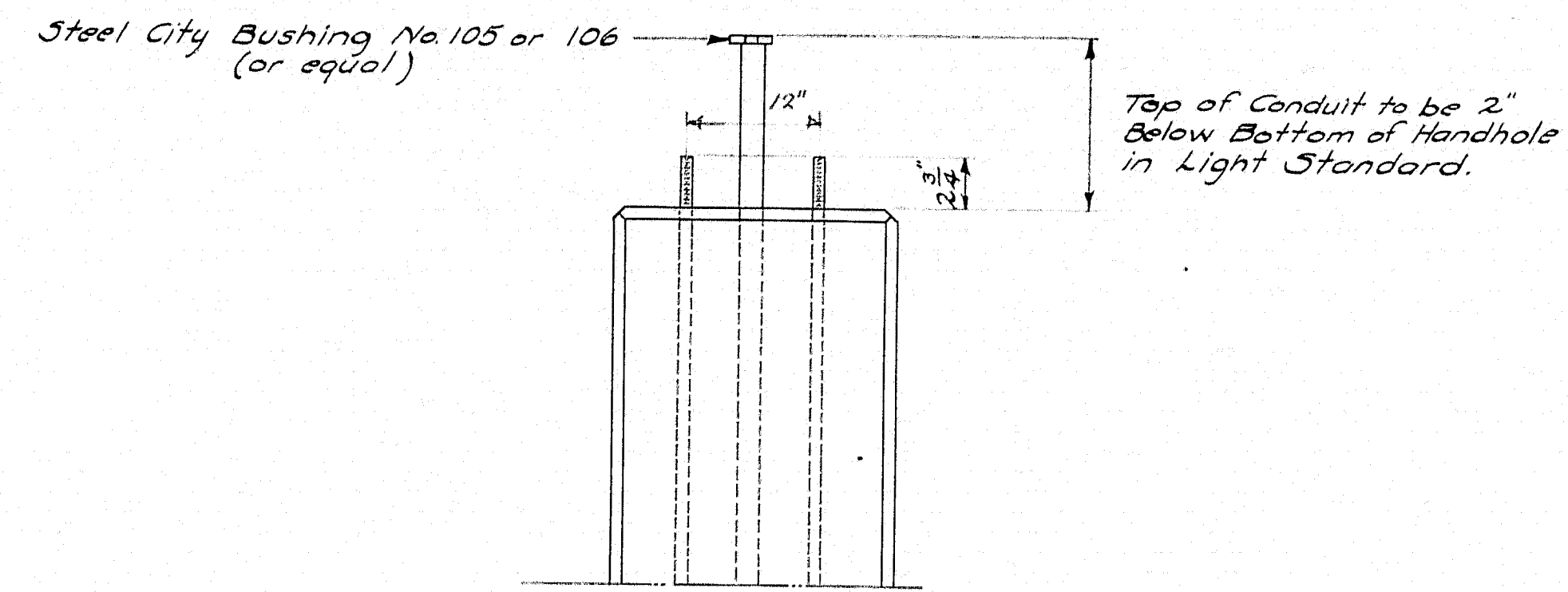
Junction box cover to be chained to junction box. Fastening bolts of junction box cover to be secured to cover with snaprings (circlips).



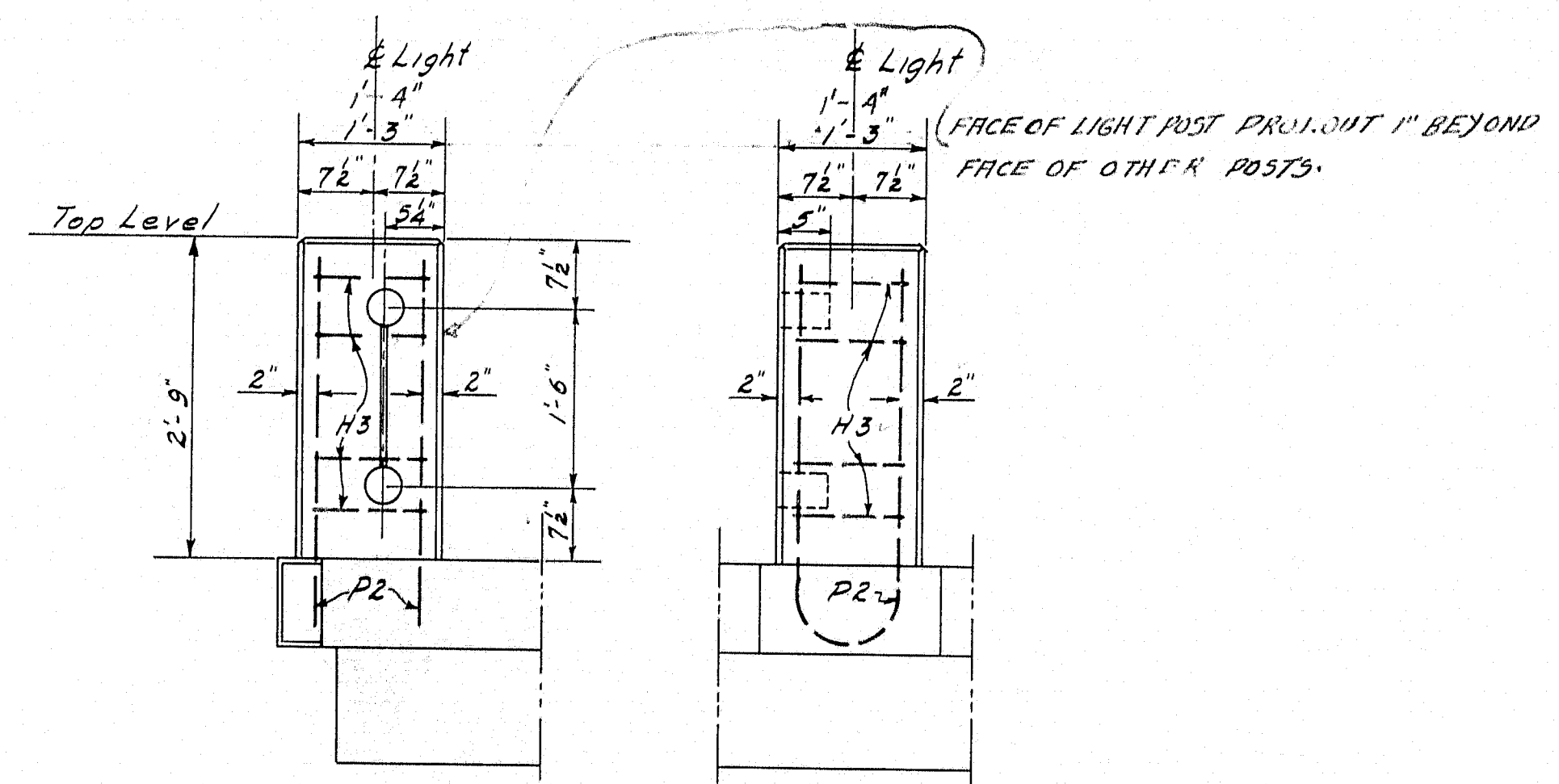
Pendant Luminaire
G.E. 101R C-Symmetric
#A46 136 or Equivalent
(Supplied by others)
6000 Lumen



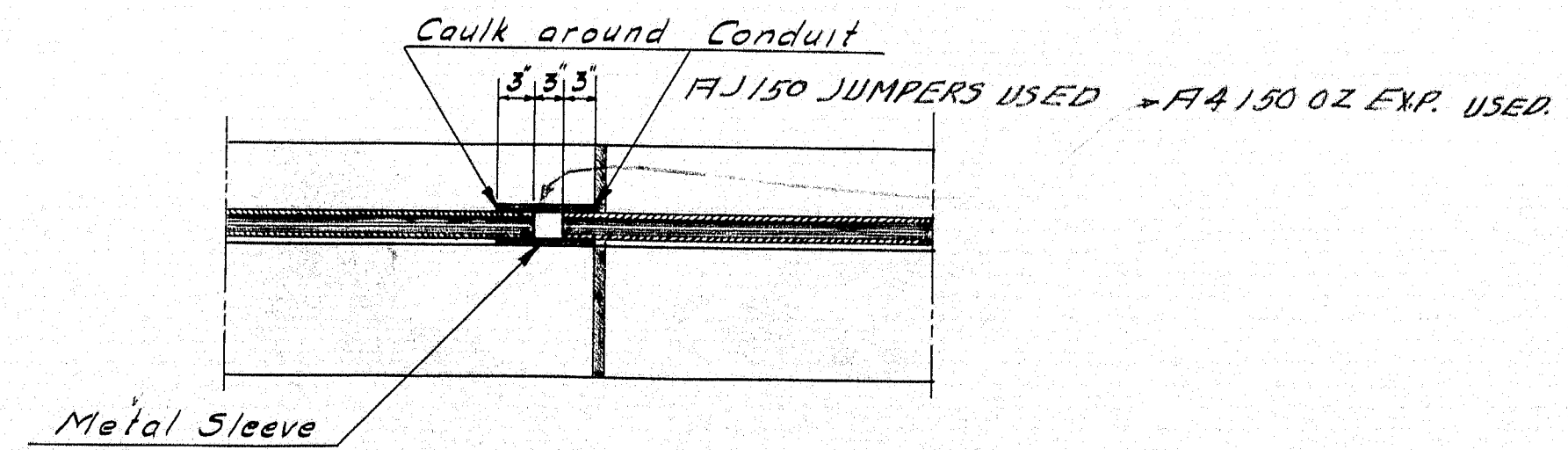
ANCHOR BOLT LAYOUT



PART ELEVATION OF LIGHT POST
(Conduit and Anchor Bolt Installation)



LIGHT POSTS
3 Req'd.



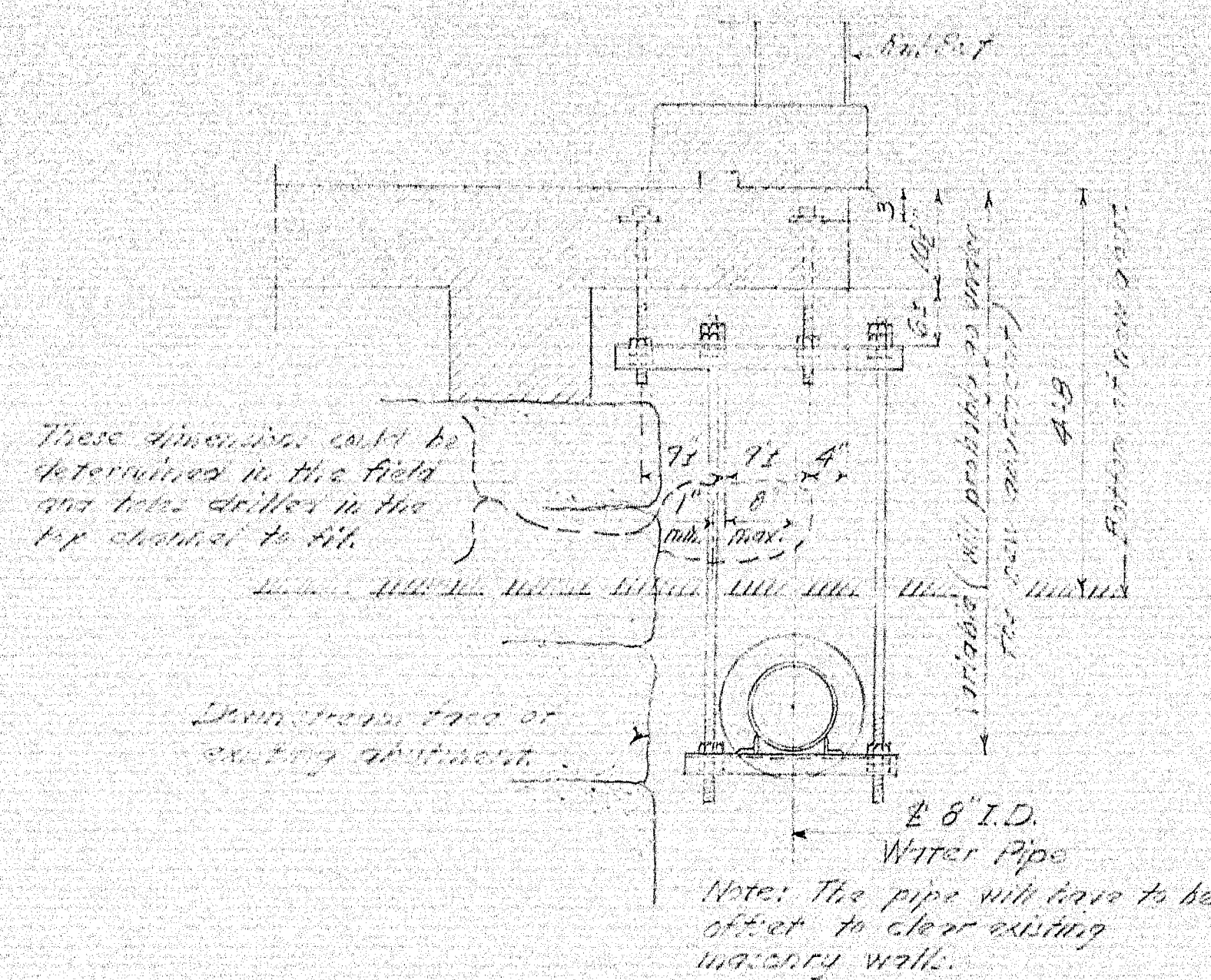
CONDUIT AT EXPANSION JOINTS

Aluminum Standard as manufactured by Hubbard Aluminum Products Co. Pittsburgh, Pa. (or equivalent) 1951 catalog Hubbard No. 1282056 Mounting Height 21'-0" 6'-0" Bracket Length Bolt Circle Diam. 10" 4"x6" Hand Hole with Cover. 3 Standards Required. 3 Sets of Anchor Bolts Required.

NOTE: THREE STANDARDS HOLLOWSPIN REMOVED FROM MARTIN POINT BRIDGE, PORTLAND AND SET UP ON THIS BRIDGE

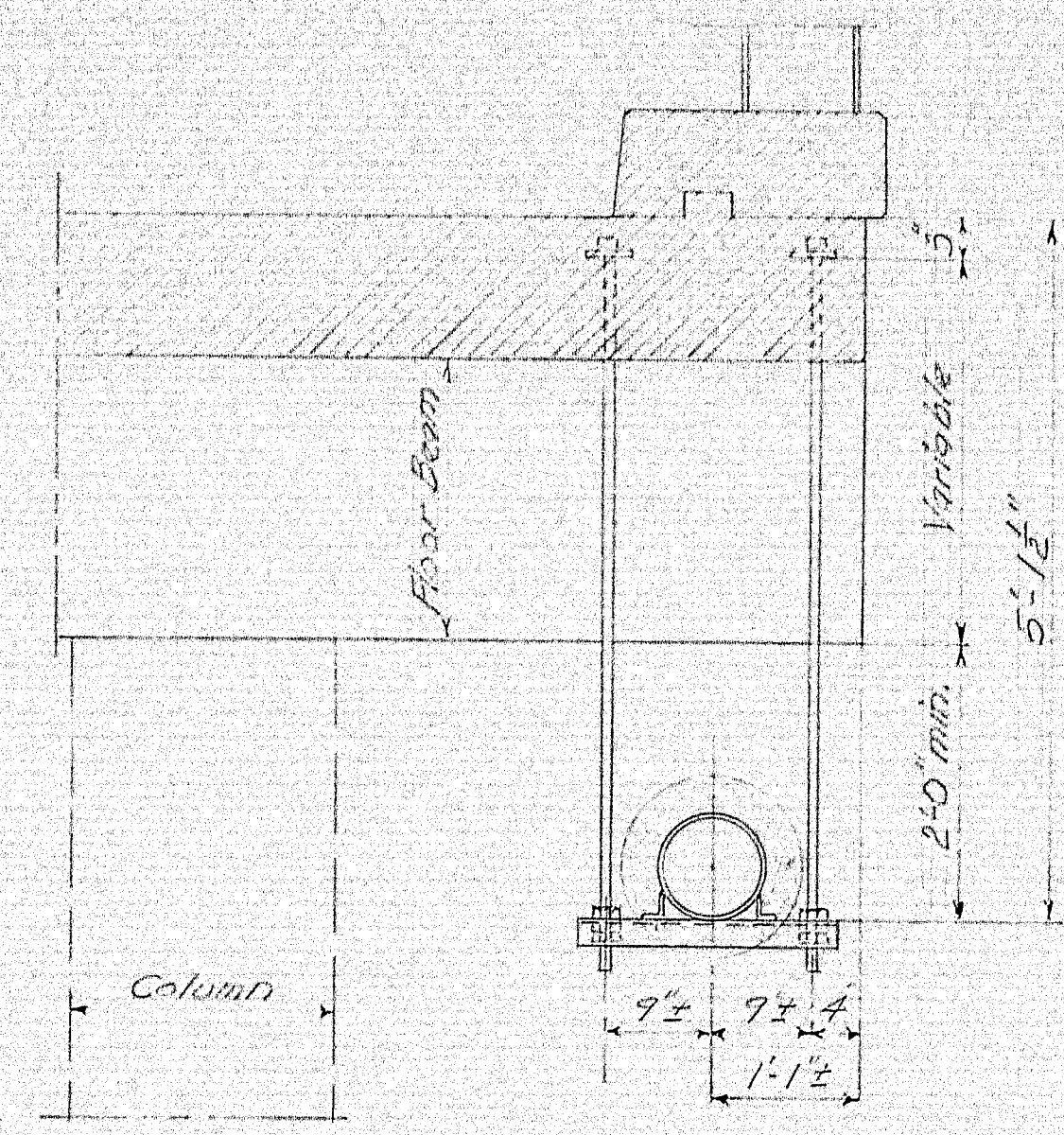
DESIGN - BAILEY	BRIDGE NO. 5669
TRACE - HAMILTON	SURVEY -
CHECK - HAMILTON	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
PRESUMPCOT FALLS BRIDGE	
OVER	
PRESUMPCOT RIVER	
IN THE TOWN OF	
FALMOUTH	
CUMBERLAND COUNTY	
- LIGHTING DETAILS -	

SHEET 11A OF 11 AUGUSTA, MAINE AUGUST 1956



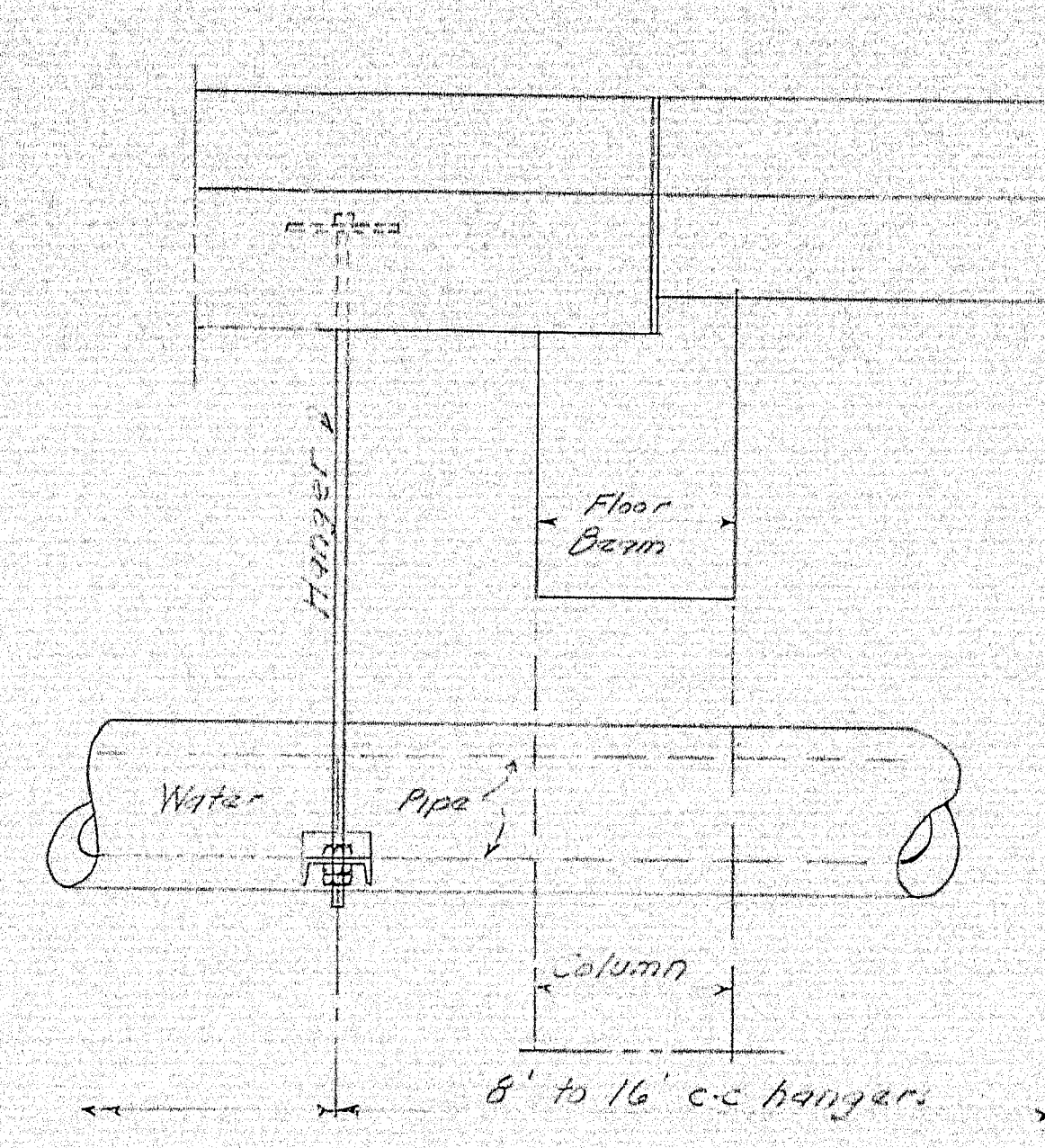
Notes: Possible the structural steel column water pipe supports along the downstream face of the existing abutments with some alterations could be used to support the new water pipe, eliminating the use of hangers in the approach slabs.

APPROACH SLABS

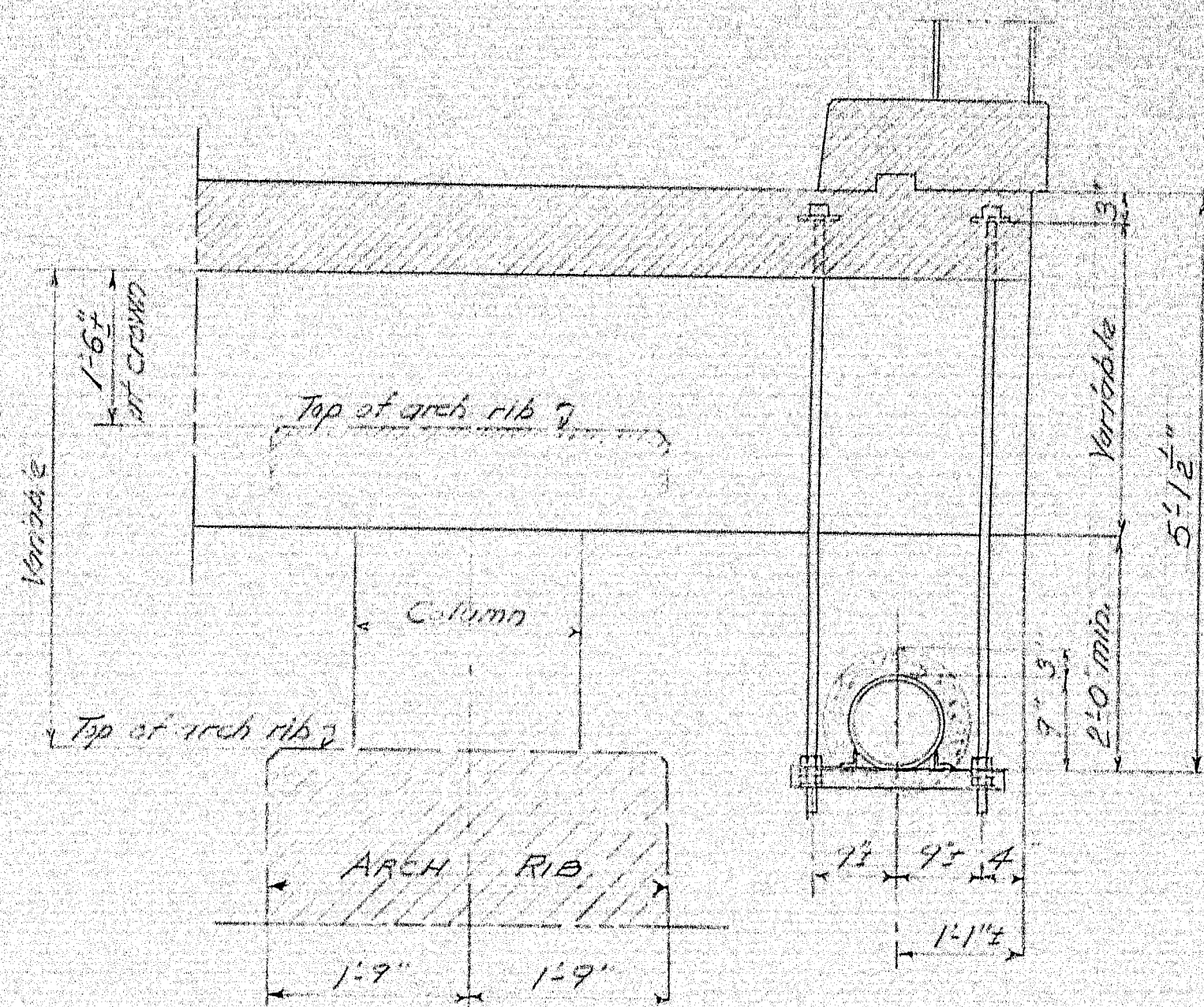


Notes: Water pipe (including insulation) to be protected under roadway drains by being encased in #24 gage galvanized sheet iron.

APPROACH SPANS



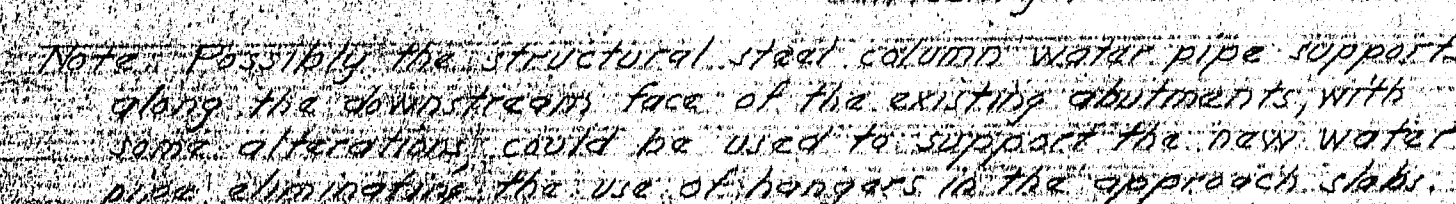
PART SIDE ELEVATION



ARCH SPAN

GENERAL NOTES:
Details shown are typical only.
Size of material, location of hangers, and actual details, to be determined by the Portland Water District.
Payment for furnishing and installing supports for the water pipe will be made by the Portland Water District.

PLAN - 8\"/>



The drawing consists of two views: a top view (plan) and a side elevation view.

Top View (Plan): Shows a circular column with a diameter of 1'-1 1/4". The column is centered within a square beam. The beam has a width of 9' ±. The distance from the center of the column to the edge of the beam is 9' ±. The beam is labeled "Beam" and the column is labeled "Column".

Side Elevation View: Shows the column and beam from the side. The column has a diameter of 1'-1 1/4". The beam has a height of 9' ±. The distance from the center of the column to the edge of the beam is 9' ±. The beam is labeled "Beam" and the column is labeled "Column".

Dimensions:

- Column Diameter: 1'-1 1/4"
- Beam Width: 9' ±
- Beam Height: 9' ±
- Distance from Column Center to Beam Edge: 9' ±

Hand-drawn technical sketch of a side elevation of a water pipe hanger system. The sketch shows a vertical 'Hanger Rod' passing through a 'Water Pipe' which is supported by a 'Column'. A 'Floor Beam' is shown above the pipe. The hanger rod is secured with a nut and washer. A dimension line at the bottom indicates the spacing between hangers is '8' to 16' c/c hangers'. The entire drawing is labeled 'PART SIDE ELEVATION' at the bottom.

The drawing consists of two parts: a cross-sectional view of a column and arch rib, and a side view of a roller assembly.

Cross-sectional view (top):

- Shows a column with a central core and an outer shell.
- The top of the arch rib is indicated by a dashed line.
- Dimensions include a vertical distance of $1'-6"$ for the column and a horizontal distance of $1'-9"$ for the arch rib.
- The column is labeled "Column" and the arch rib is labeled "Arch Rib".

Side view (bottom):

- Shows a roller assembly with a central roller and two side rollers.
- The roller assembly is mounted on a base.
- Dimensions include a vertical distance of $9"$ for the roller, a horizontal distance of $9"$ for the roller, and a horizontal distance of $1'-1/2"$ for the base.
- The roller is labeled "Roller" and the base is labeled "Base".

GENERAL NOTES
Details shown are typical only.
Size of material, location of hangers
and actual details, to be determined
by the Portland Water District.
Payment for furnishing and installing
supports for the water pipe will be made
by the Portland Water District.

FLAN. *Donnell*
5-10-68

State Highway Commission
Bridge Division
PRESUMPTCOT FALLS BRIDGE
over
PRESUMPTCOT RIVER
in the town of
FALMOUTH
CUMBERLAND COUNTY, ME.
Proposed Bridge
for supporting water pipe
over the Presumptcot River

