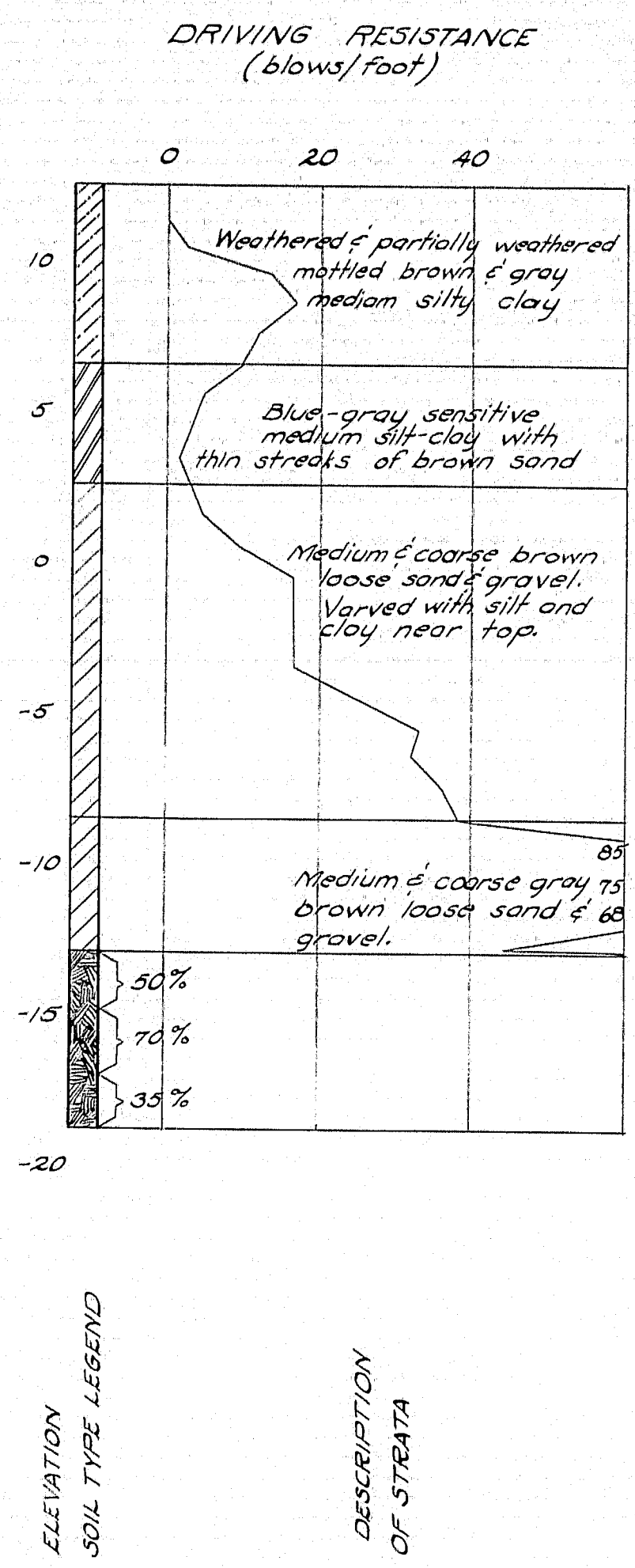
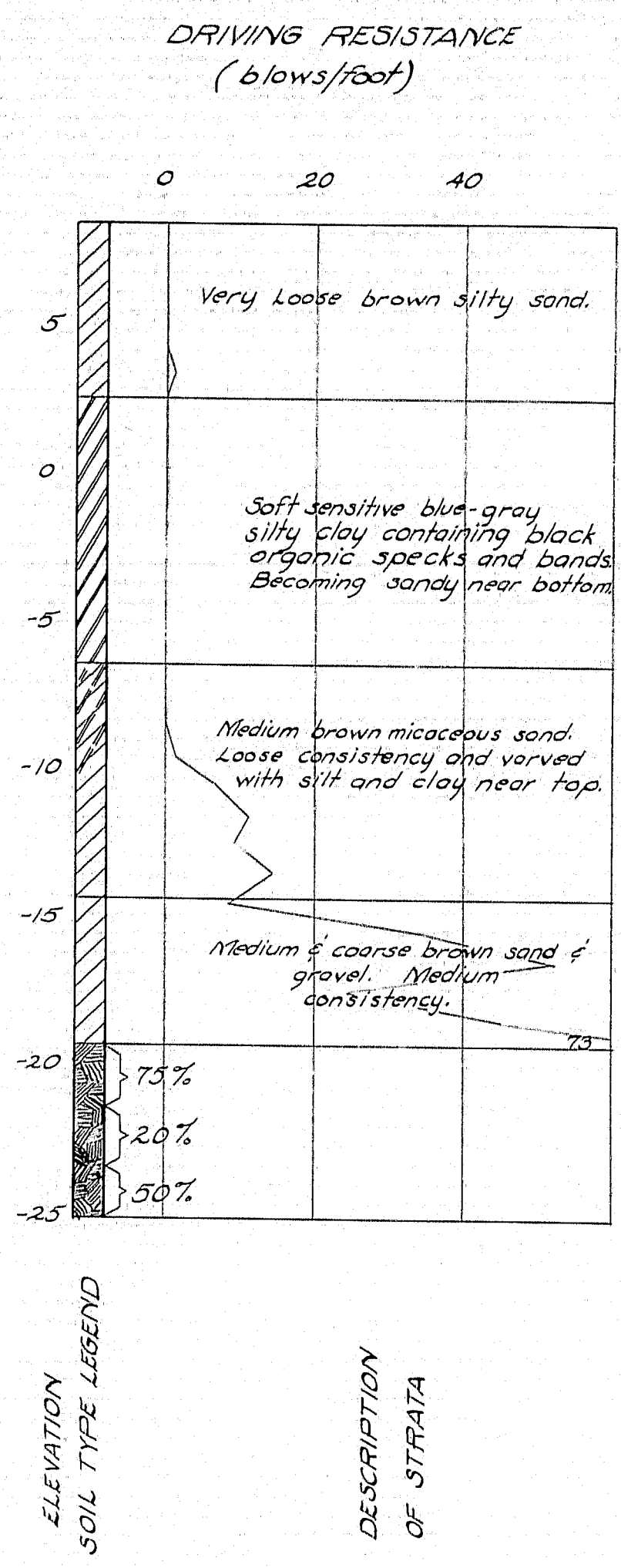


STRATIGRAPHIC PROFILE

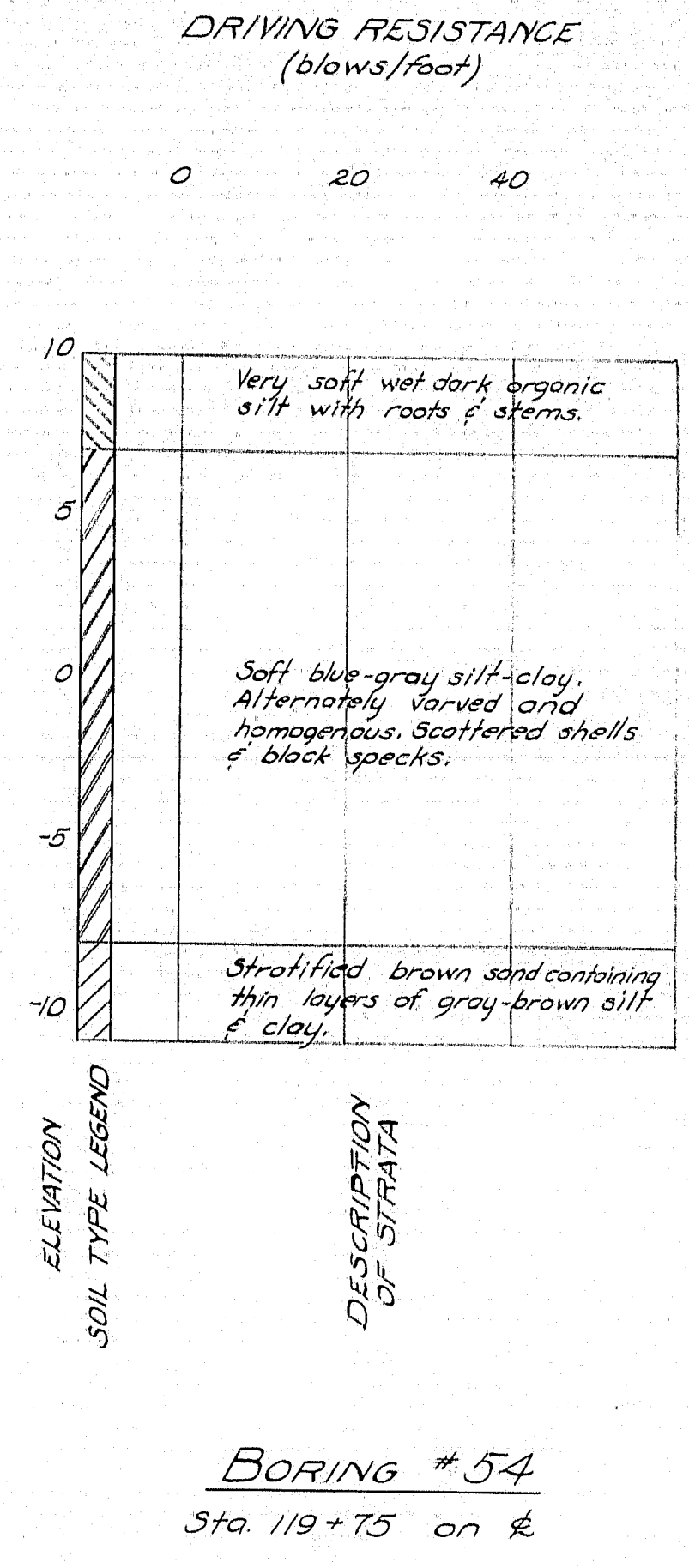
Scale:  
Vertical: 1"=10'  
Horizontal: 1"=50'



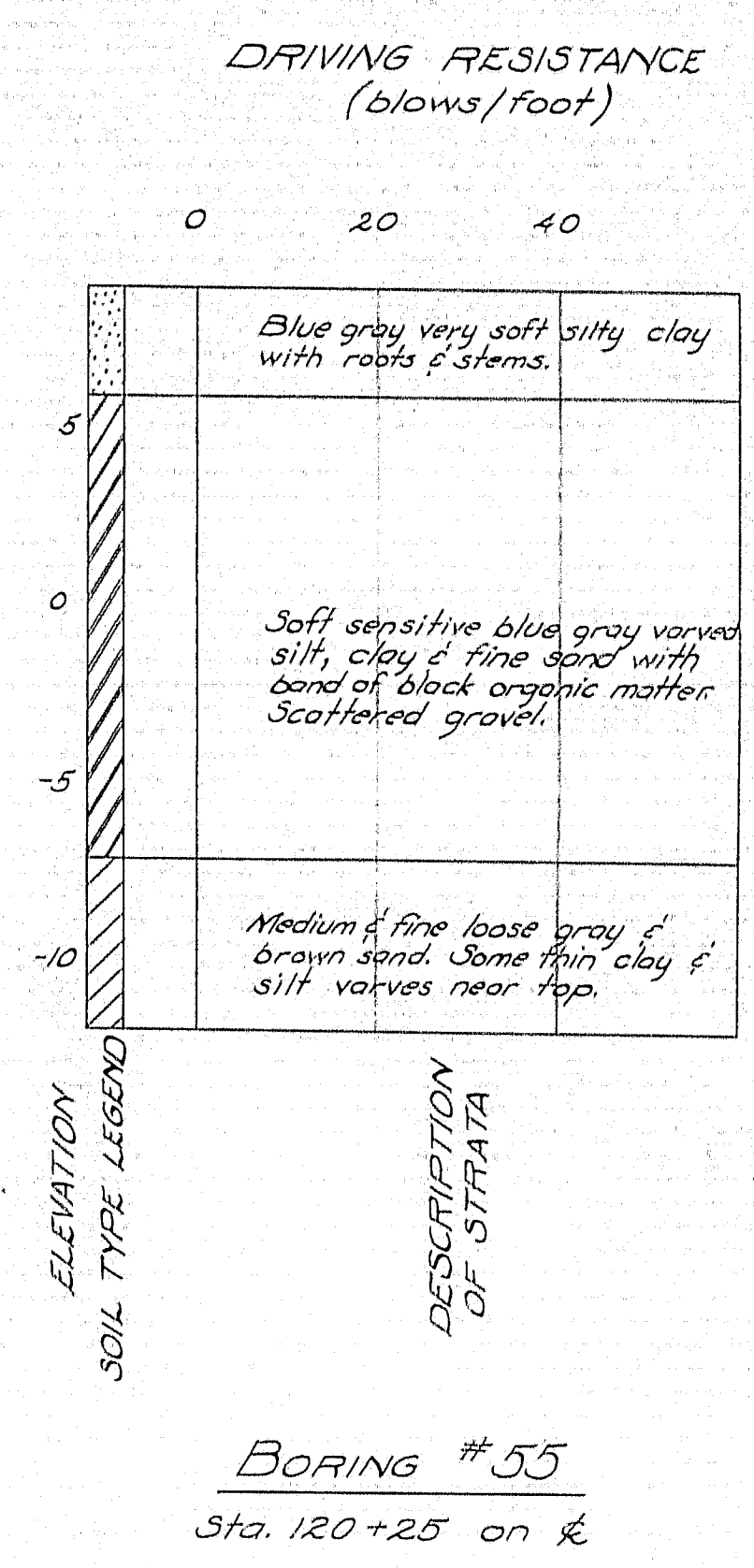
BORING #1  
Sta. 119+23 on E



BORING #2  
Sta. 119+90 on E



BORING #54  
Sta. 119+75 on E



BORING #55  
Sta. 120+25 on E

NOTE: Driving Resistance measured by number of blows of 275# hammer falling 18 inches required to drive extra heavy casing one foot.

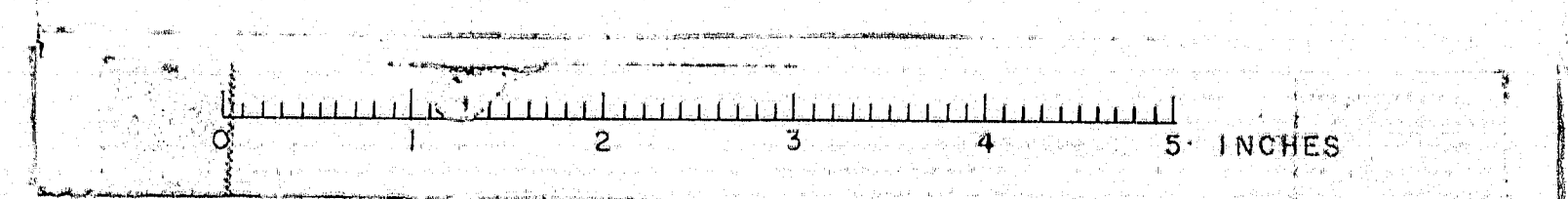
TRACED FROM REPORT MADE BY H. GRAY, SOILS ENGINEER, SURVEY PLAN-B, BAILEY CHECK-142, PLOT

STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

**NEQUASSET BRIDGE**  
OVER  
**NEQUASSET POND**  
IN THE TOWN OF  
**WOOLWICH**  
**SAGADAHOC COUNTY**  
FOUNDATION DATA

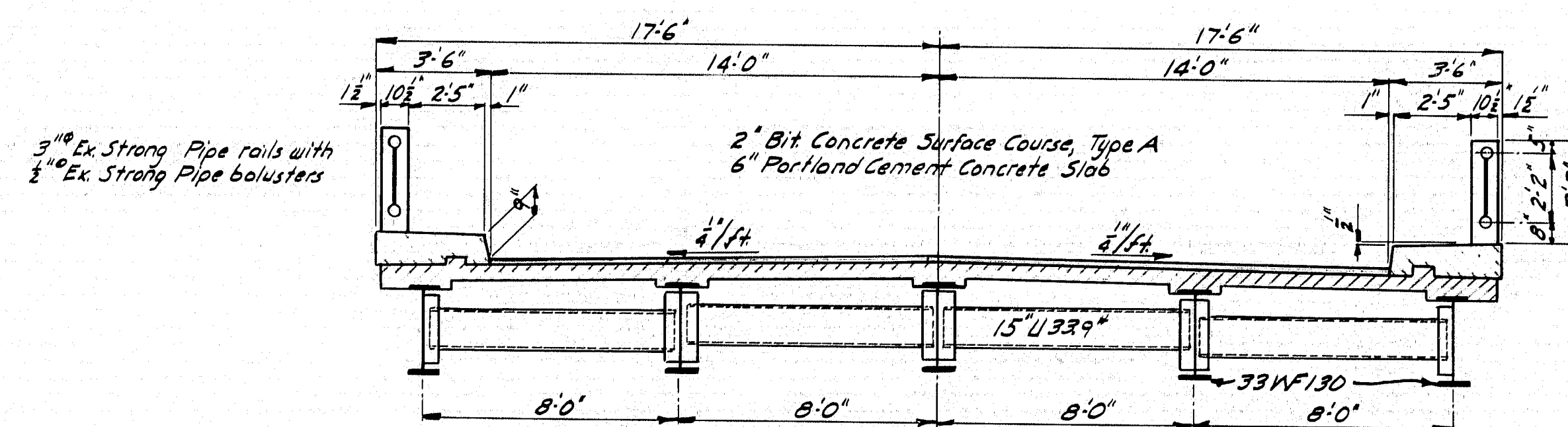
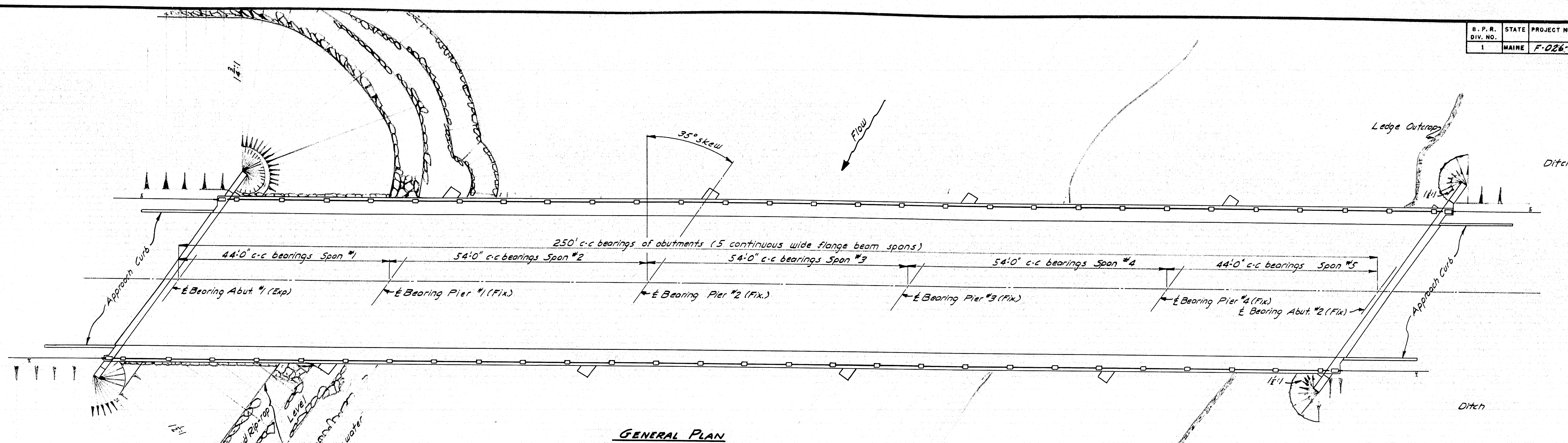
SHEET 2 OF 12 AUGUSTA, MAINE OCT. 1955

M-712



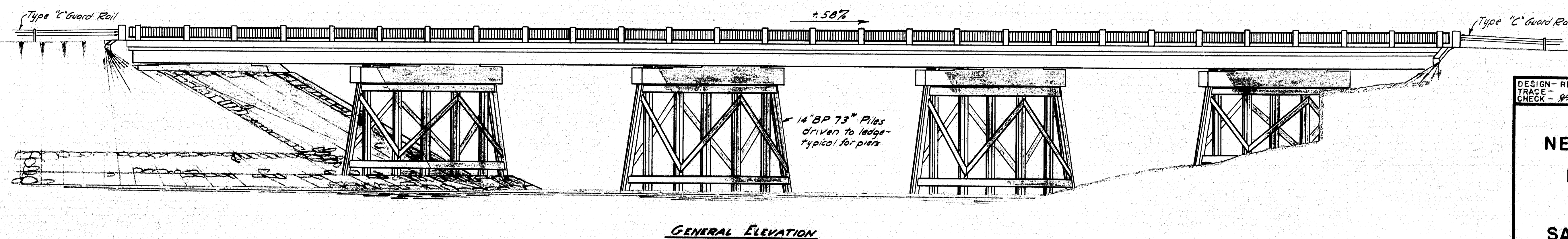


D. P. R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-026-114	26	136



**DESIGN**  
Specifications: AA 540, 1953  
Loading: H20-516-44

**CONCRETE CLASSIFICATION**  
Abutments Class B  
Superstructure slab, pier caps & approach curb Class A  
Rail posts Class Y



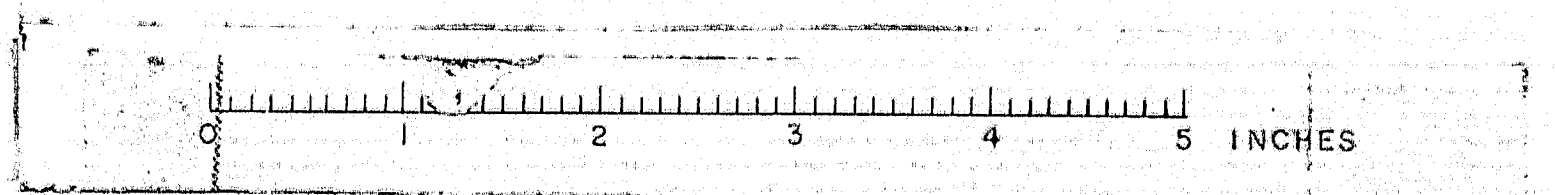
DESIGN - RISSEL  
TRACE - *W. H. R. R.*  
CHECK - *W. H. R. R.*

BRIDGE NO. *114*  
SURVEY PLOT

STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

**NEQUASSET BRIDGE**  
OVER  
**NEQUASSET POND**  
IN THE TOWN OF  
**WOOLWICH**  
**SAGadahoc COUNTY**  
GENERAL PLAN & ELEVATION  
SHEET 3 OF 12 AUGUSTA, MAINE OCT. 1955

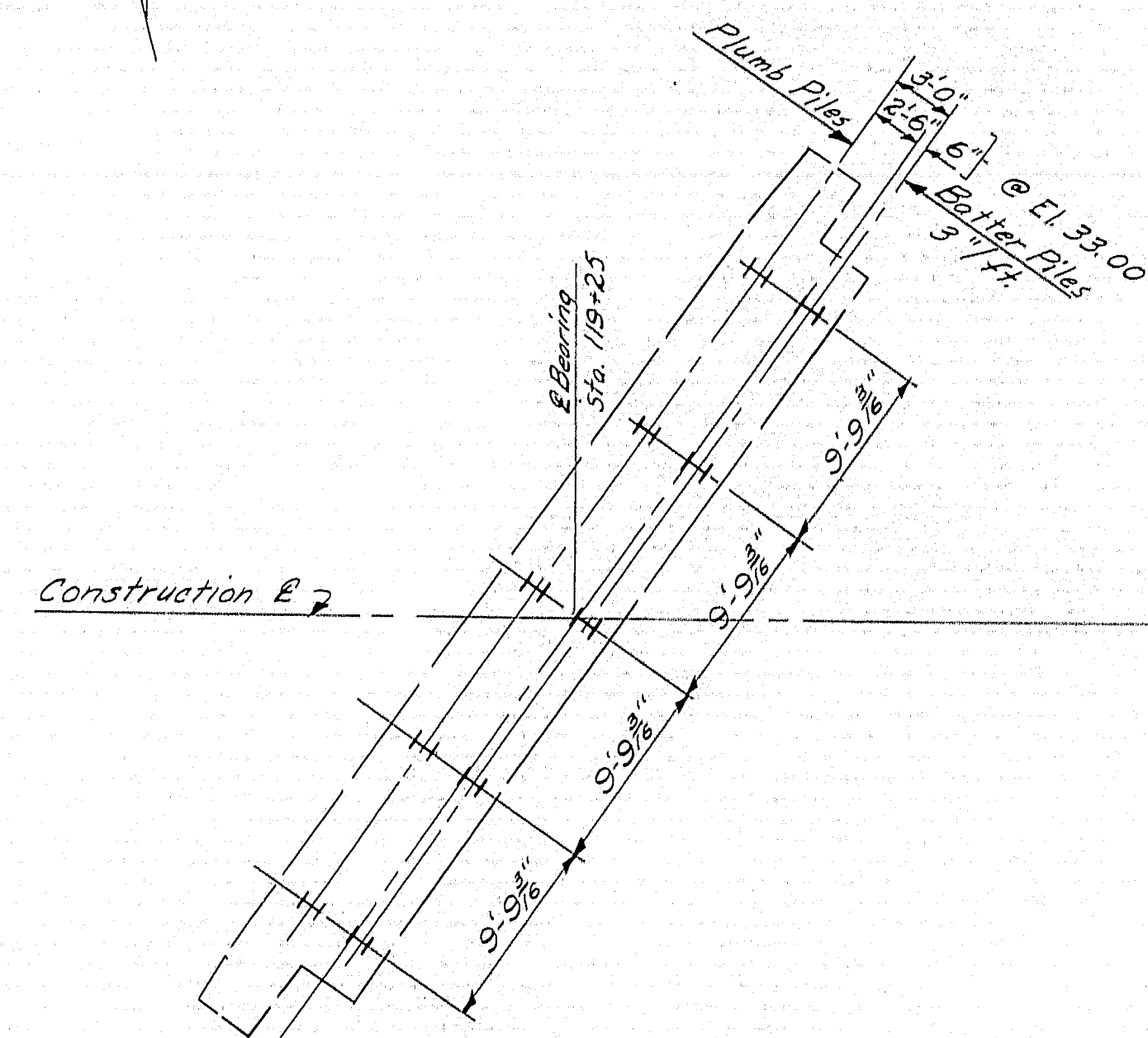
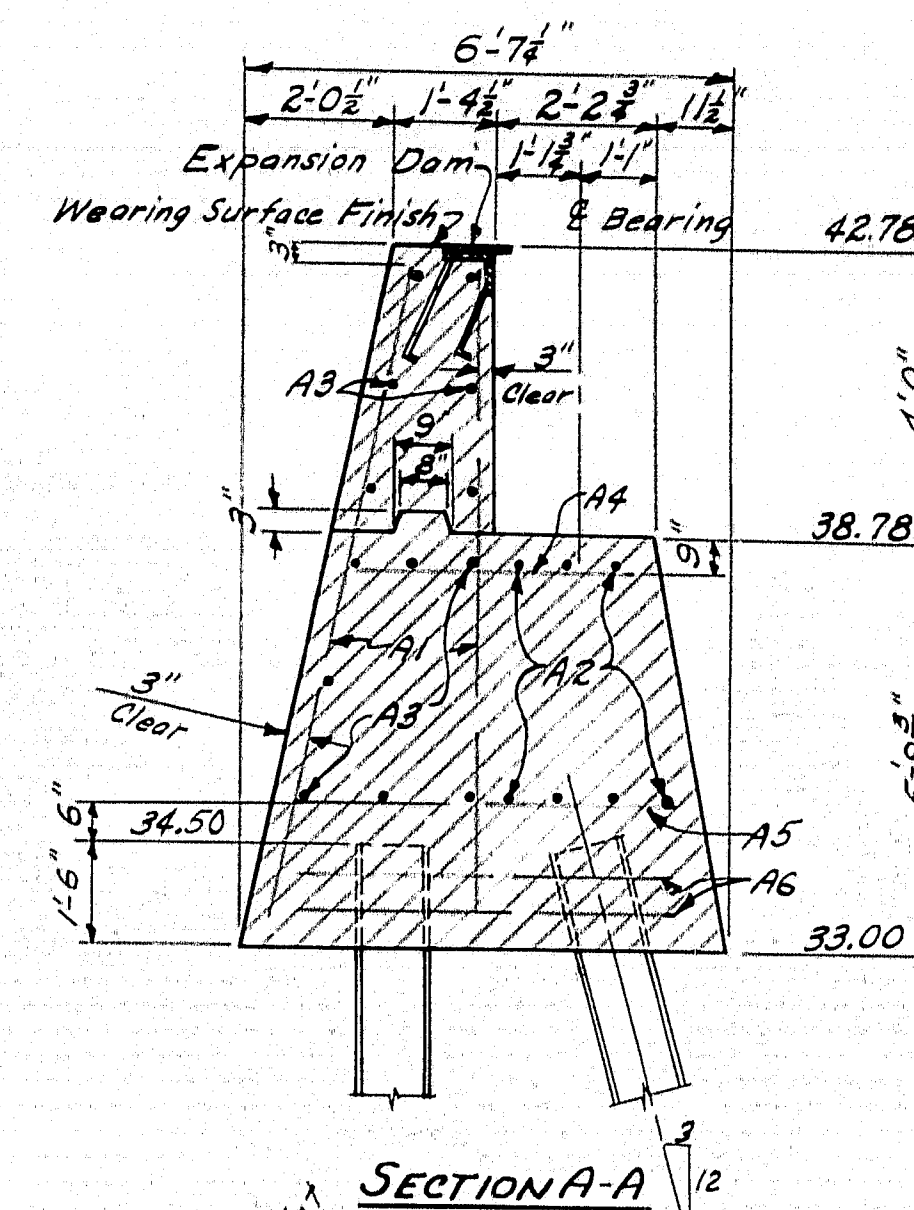
M-713



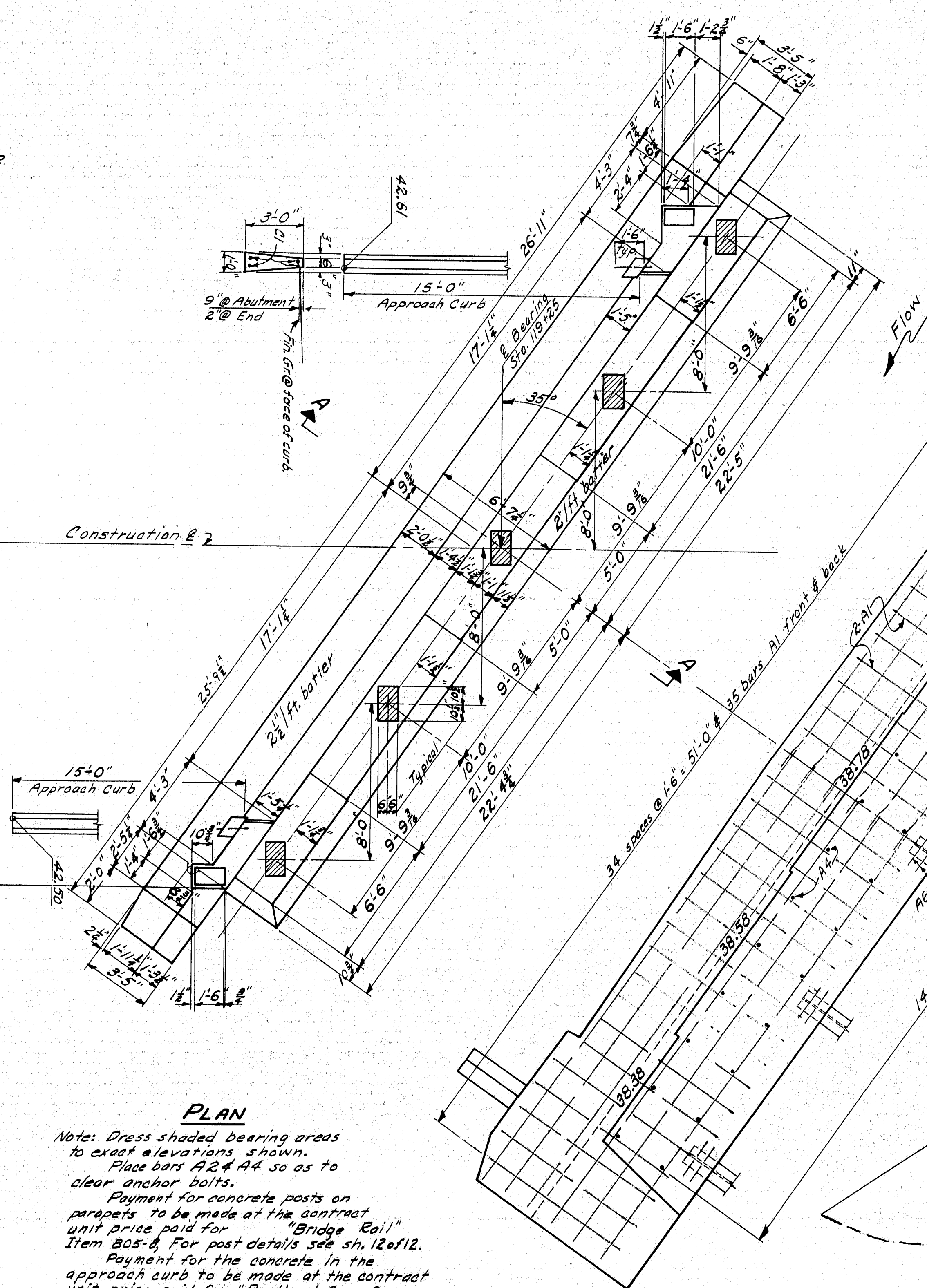
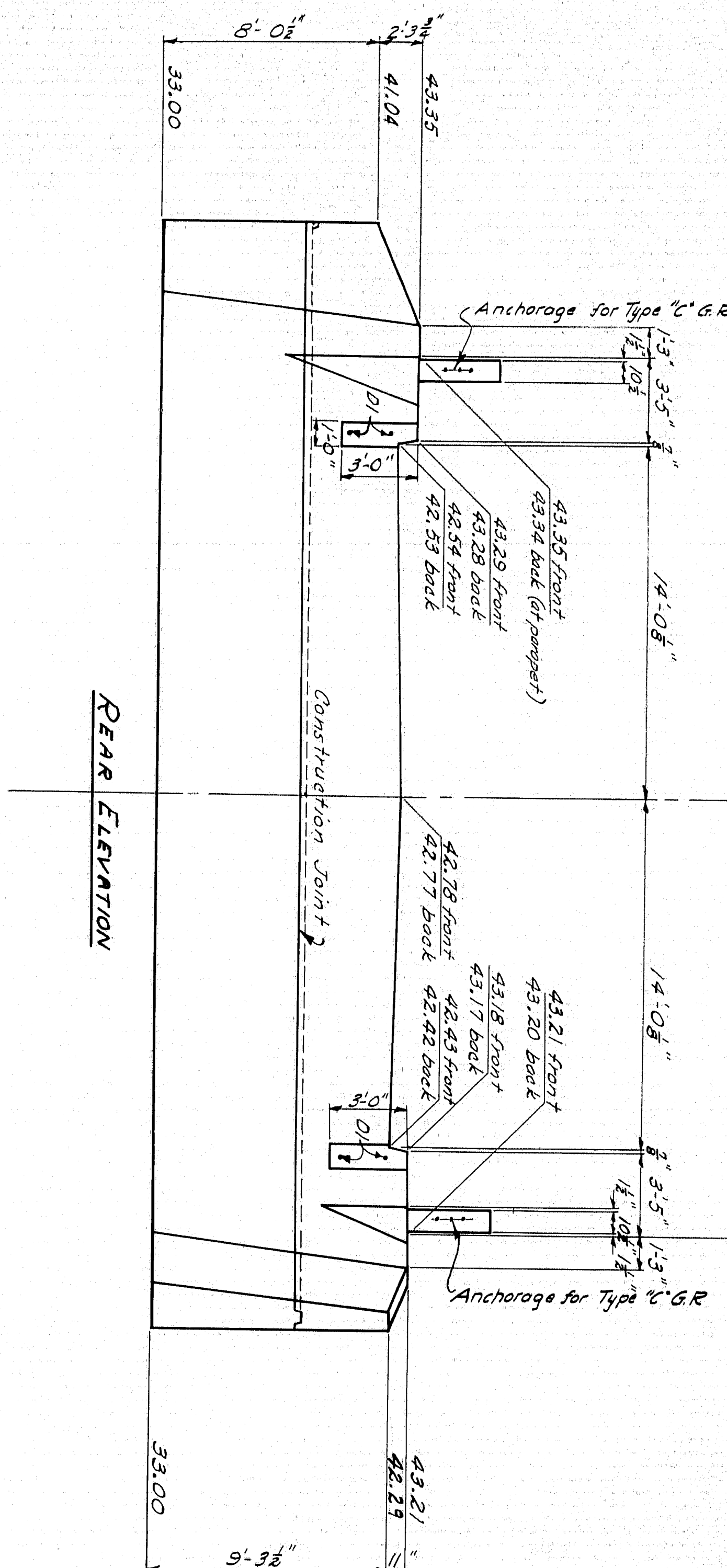
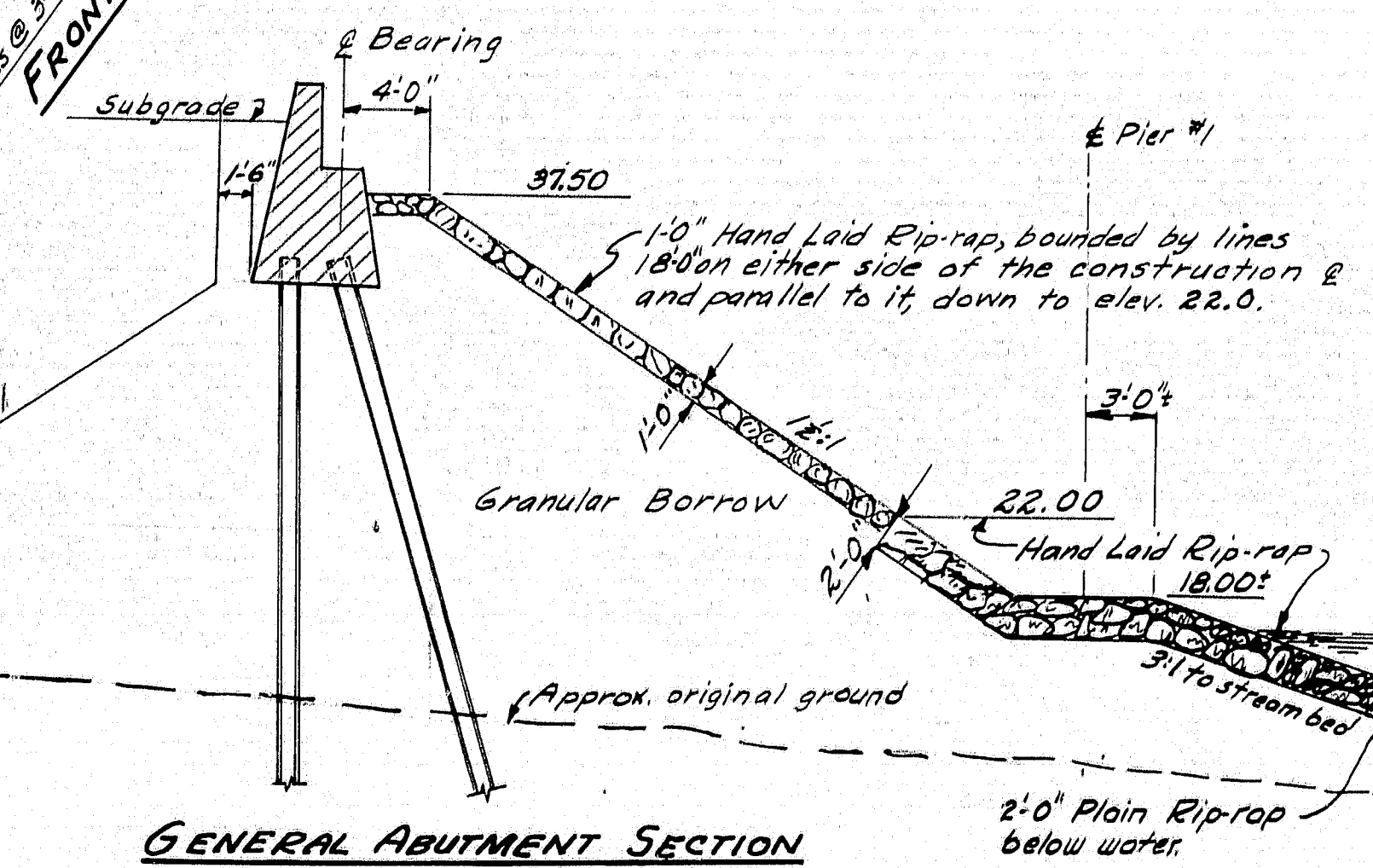


S. P. R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-026-1(4)	27	136

Note: Construct backwall after concrete in superstructure has been placed. See sh. 3 for covering back of the construction joint.



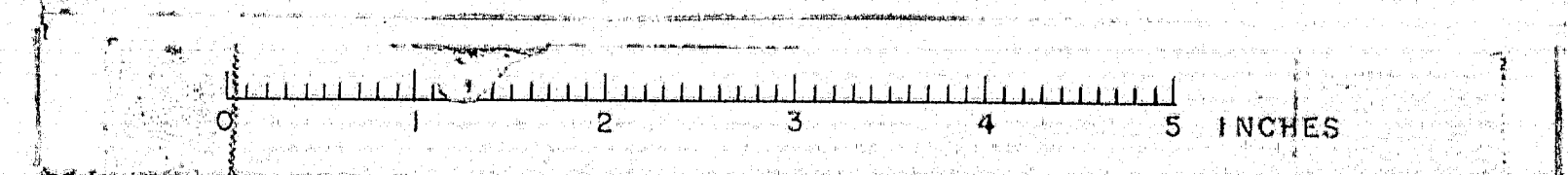
10 steel-12 BPS3 1/2" x 1/2" piles required with an estimated length of 50 ft. (Piles to be driven to ledge.)  
Maximum normal load = 42 tons/pile.  
Place granular borrow to elev. 33.00 before driving piles.



**PLAN**  
Note: Dress shaded bearing areas to exact elevations shown.  
Place bars A2 & A4 so as to clear anchor bolts.  
Payment for concrete posts on parapets to be made at the contract unit price paid for "Bridge Rail" Item 805-6. For post details see sh. 12 of 12.  
Payment for the concrete in the approach curb to be made at the contract unit price paid for "Portland Cem. Conc., Roadway & Sidewalk Slabs on Steel Bridges" Item 701-40.

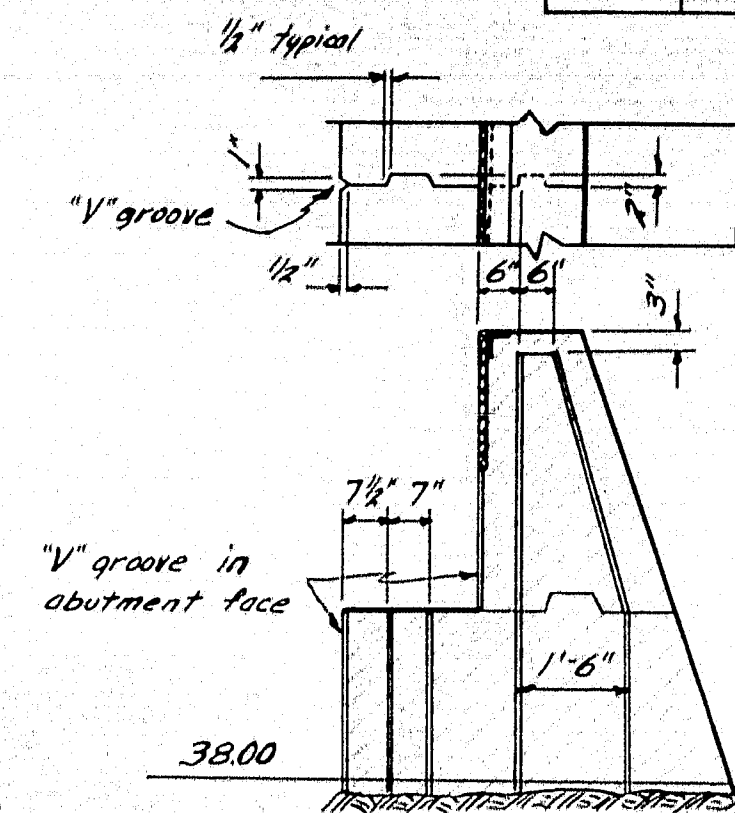
DESIGN - RISSEL TRACE - LANGFORD CHECK - [Signature]	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
<b>NEQUASSET BRIDGE</b> OVER <b>NEQUASSET POND</b> IN THE TOWN OF <b>WOOLWICH</b> <b>SAGadahoc COUNTY</b> ABUTMENT NO. 1	
SHEET 4 OF 12 AUGUSTA, MAINE OCT. 1955	

M-714

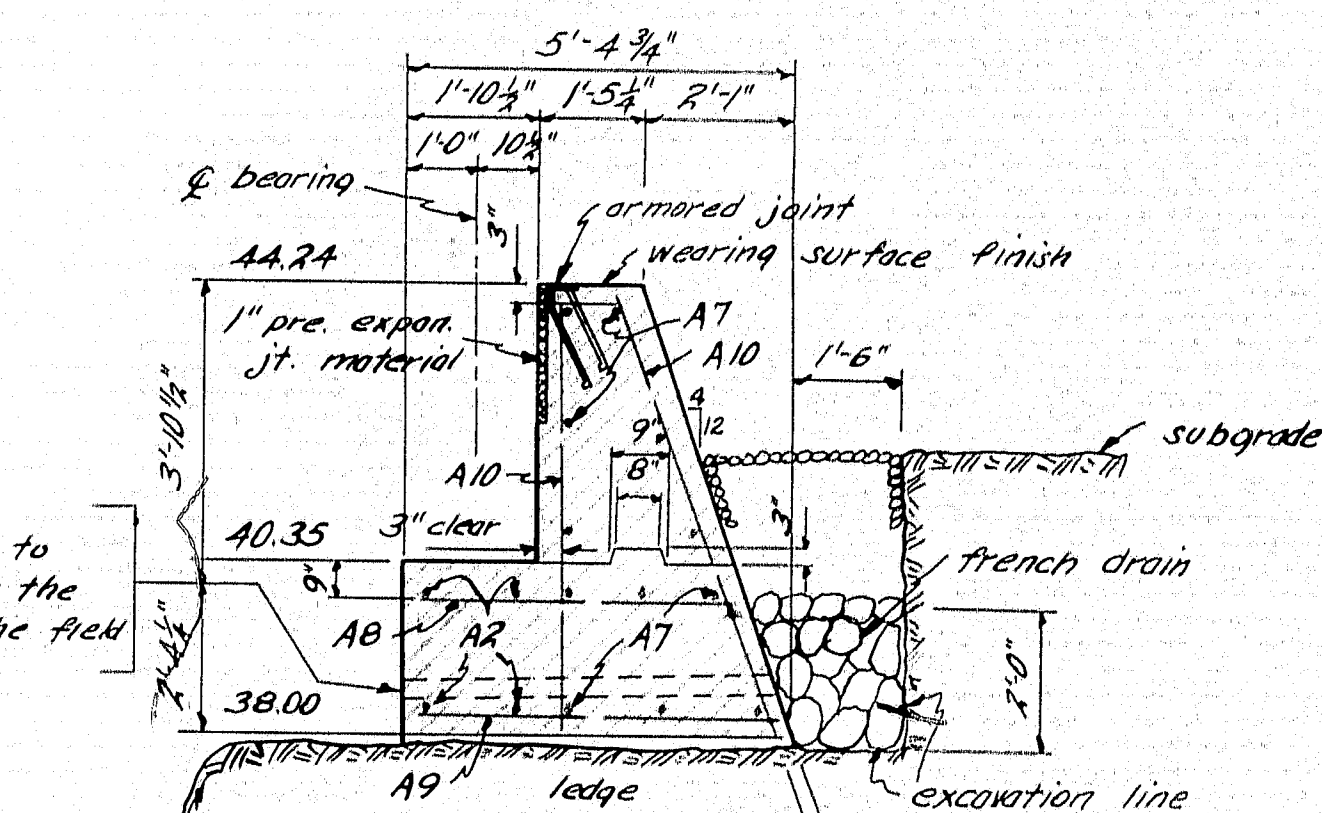




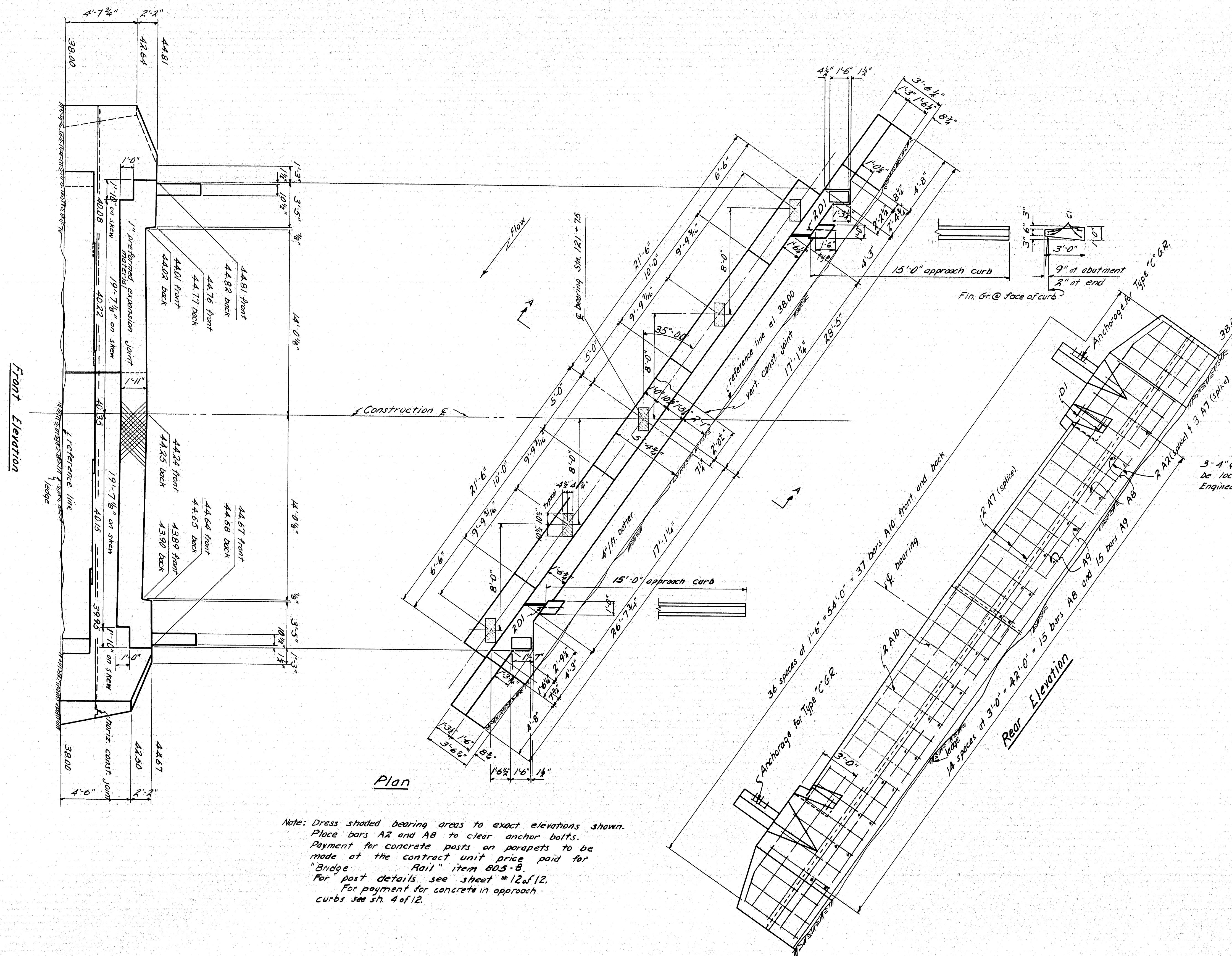
U. S. R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-226-1(A)	28	136



Note: Cover the vertical and horizontal construction joints on the back of the abutments with 2 layers of heavy roofing 10" wide. Coat the surface of the concrete and the contact surfaces of the roofing as applied with a suitable grade of roofing cement. Recess the area to be covered 1/4" by nailing thin strips to the forms. Construct backwall after concrete in superstructure slab has been placed.



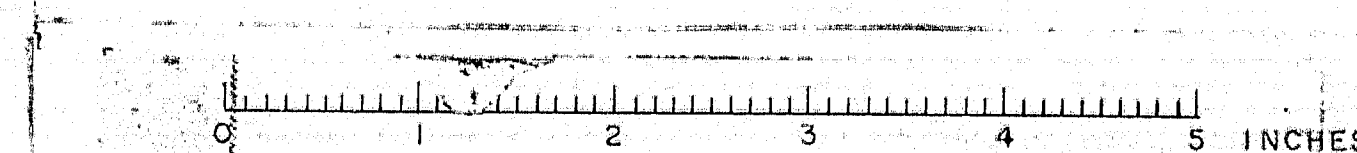
Note: The surface of the ledge is to be left rough with 38.00 to be considered the optimum elevation for excavation. In no case shall any ledge project higher than elev. 38.35 within the limits of the structural excavation.



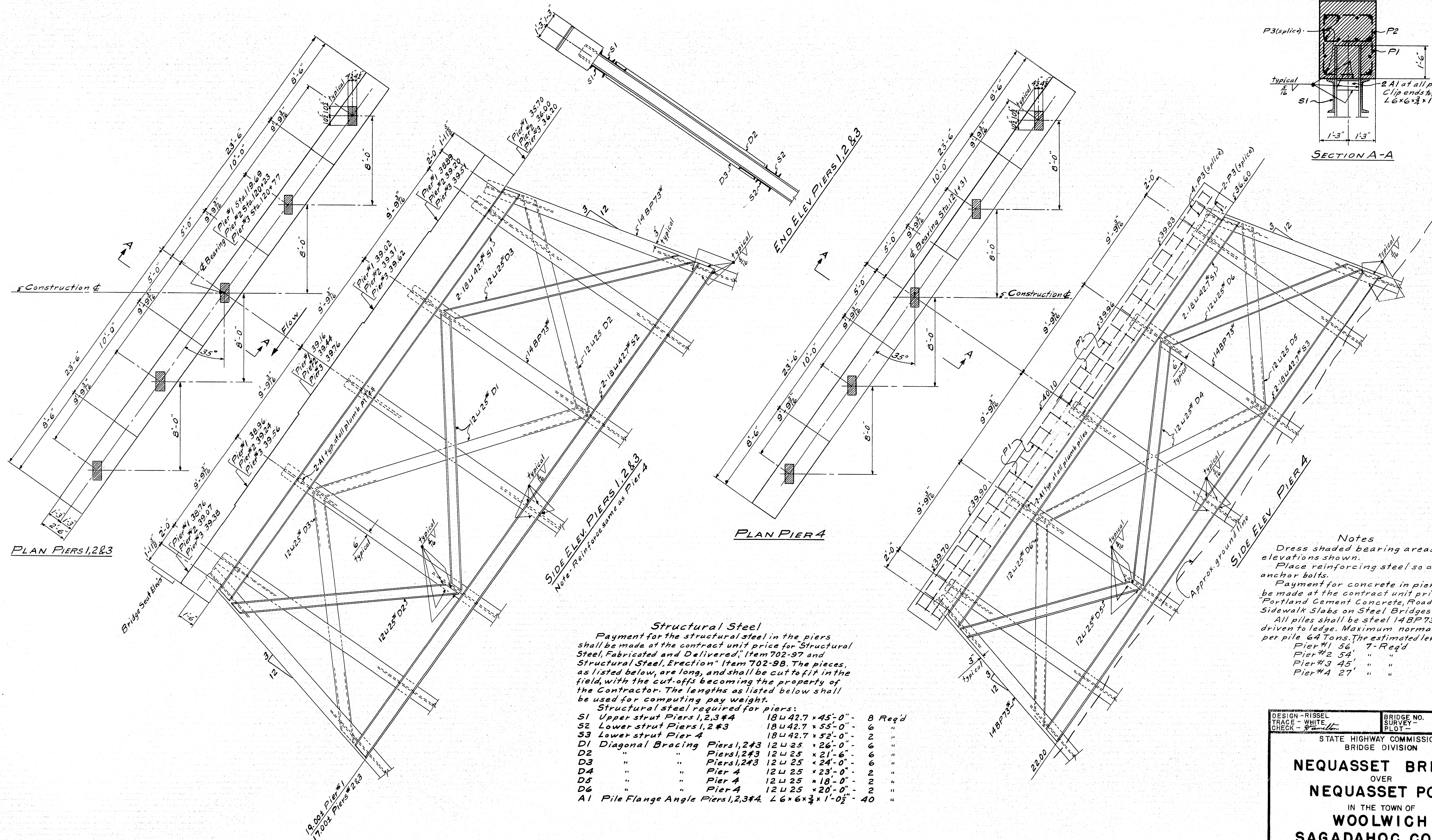
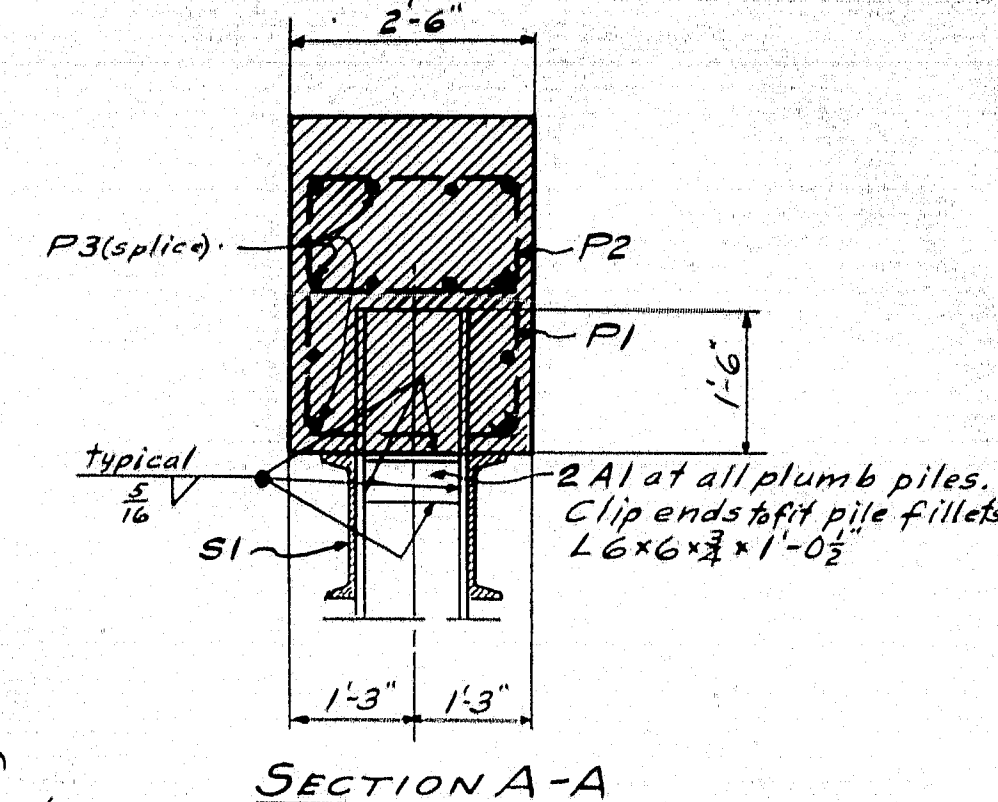
Note: Dress shaded bearing areas to exact elevations shown. Place bars A7 and A8 to clear anchor bolts. Payment for concrete posts on parapets to be made at the contract unit price paid for "Bridge Rail" item 805-B. For post details see sheet #12 of 12. For payment for concrete in approach curbs see sheet #4 of 12.

DESIGN - RISSEL	BRIDGE NO.
TRACE - MULLIGAN	SURVEY -
CHECK -	PLOT -
STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	
NEQUASSET BRIDGE	
OVER	
NEQUASSET POND	
IN THE TOWN OF	
WOOLWICH	
SAGADAHOC COUNTY	
ABUTMENT NO. 2	
SHEET 5 OF 12	AUGUSTA, MAINE OCT. 1955

M-715







**Structural Steel**

Payment for the structural steel in the piers shall be made at the contract unit price for Structural Steel, Fabricated and Delivered, Item 702-97 and Structural Steel, Erection, Item 702-98. The pieces, as listed below, are long, and shall be cut to fit in the field, with the cut-offs becoming the property of the Contractor. The lengths as listed below shall be used for computing pay weight.

**Structural steel required for piers:**

S1 Upper strut Piers 1,2,3 & 4	18U42.7 x 45'-0"	8 Req'd
S2 Lower strut Piers 1,2 & 3	18U42.7 x 55'-0"	6 "
S3 Lower strut Pier 4	18U42.7 x 52'-0"	2 "
D1 Diagonal Bracing Piers 1,2 & 3	12U25 x 26'-0"	6 "
D2 " " " "	Piers 1,2 & 3 12U25 x 21'-6"	6 "
D3 " " " "	Piers 1,2 & 3 12U25 x 24'-0"	6 "
D4 " " " "	Pier 4 12U25 x 23'-0"	2 "
D5 " " " "	Pier 4 12U25 x 18'-0"	2 "
D6 " " " "	Pier 4 12U25 x 20'-0"	2 "
A1 Pile Flange Angle Piers 1,2,3 & 4	L6 x 6 x 3/4 x 1'-0 1/2"	40 "

**Notes**

Dress shaded bearing areas to exact elevations shown.

Place reinforcing steel so as to clear anchor bolts.

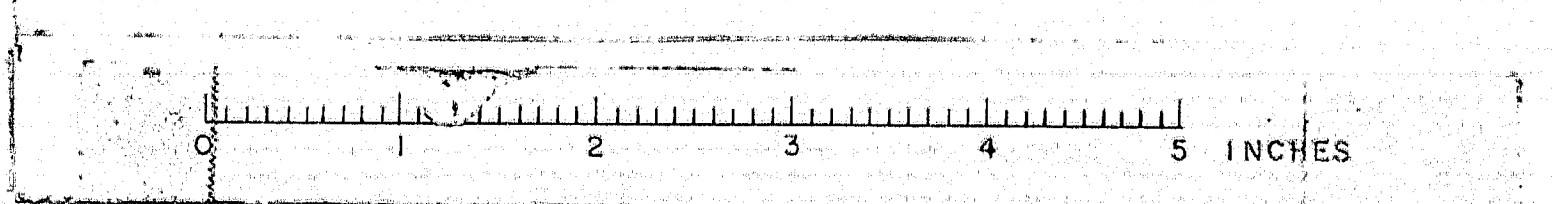
Payment for concrete in pier caps to be made at the contract unit price for Portland Cement Concrete, Roadway and Sidewalk Slabs on Steel Bridges, Item 701-40.

All piles shall be steel 14BP73" piles driven to ledge. Maximum normal load per pile 64 Tons. The estimated length of piles is:

Pier #1	56'	7-Req'd
Pier #2	54'	" "
Pier #3	45'	" "
Pier #4	27'	" "

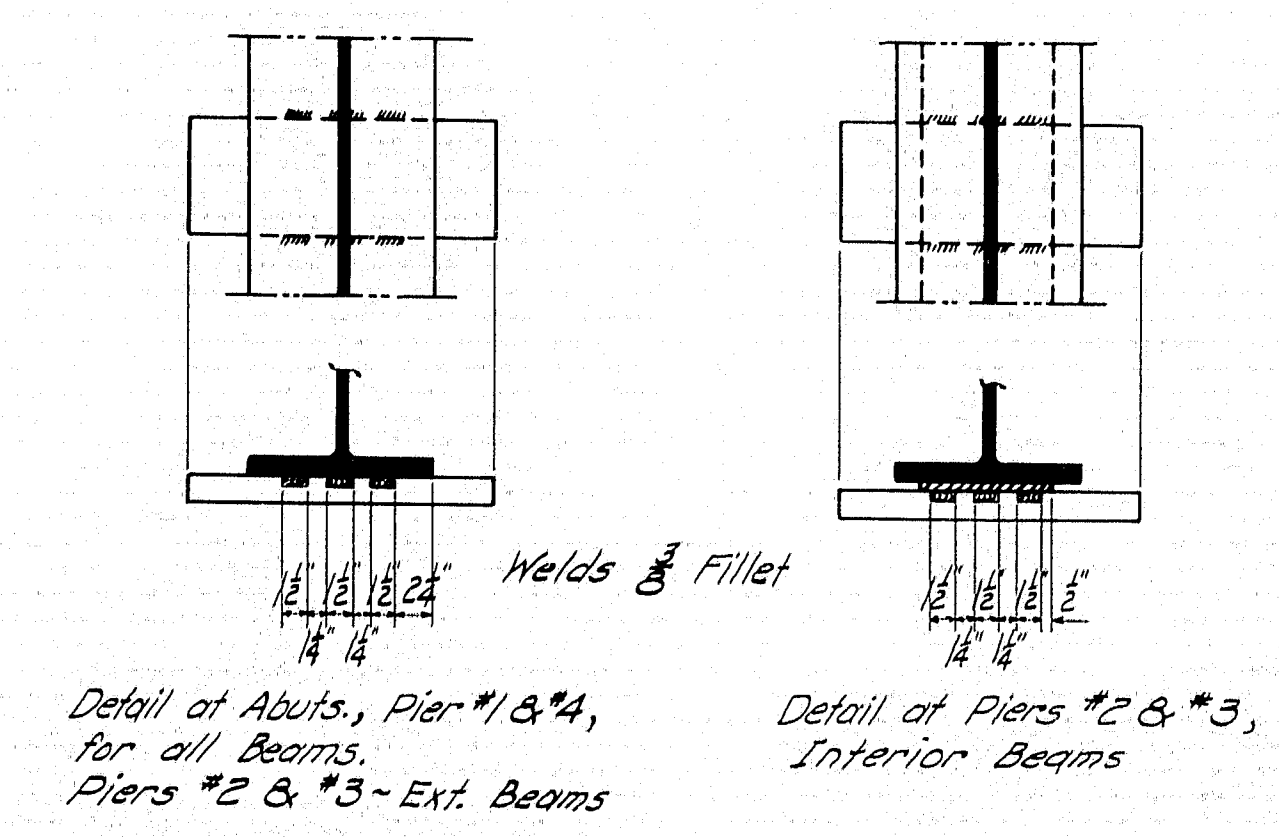
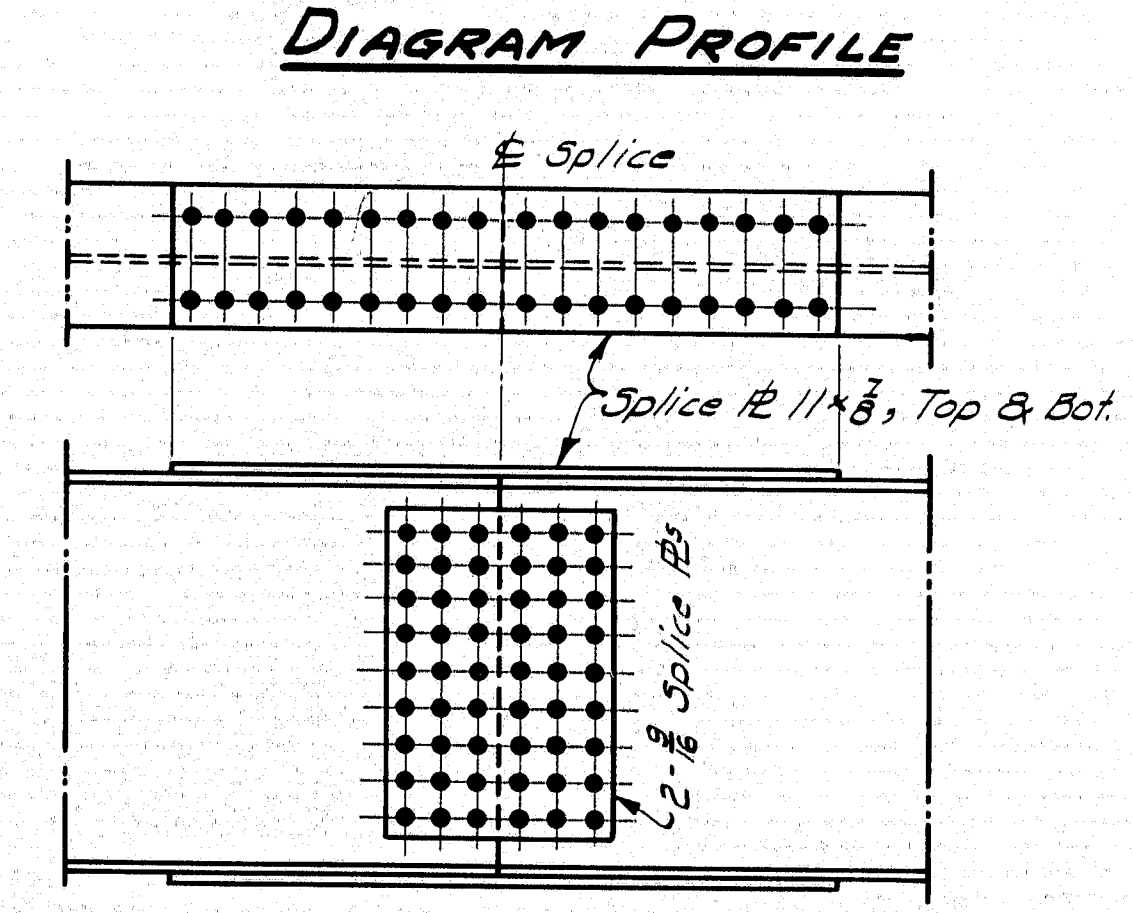
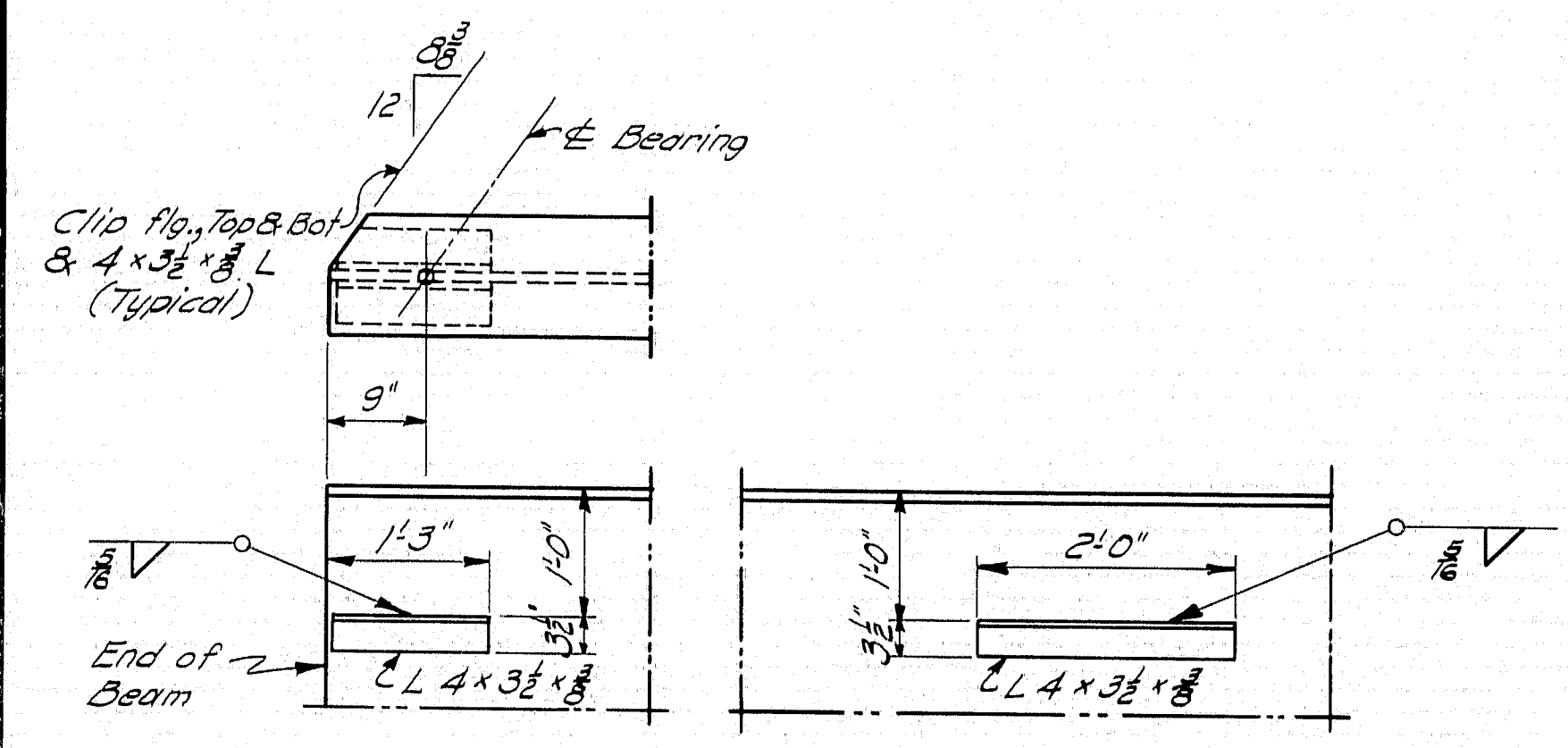
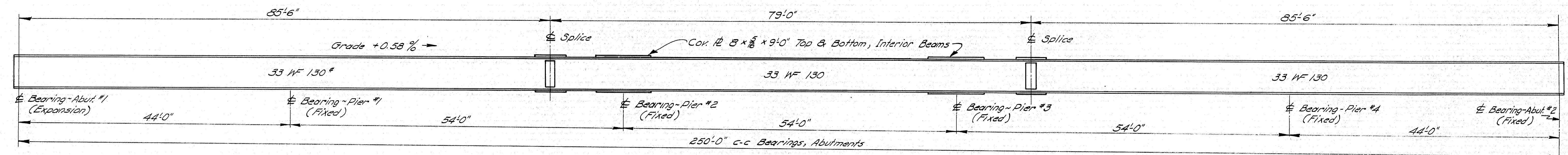
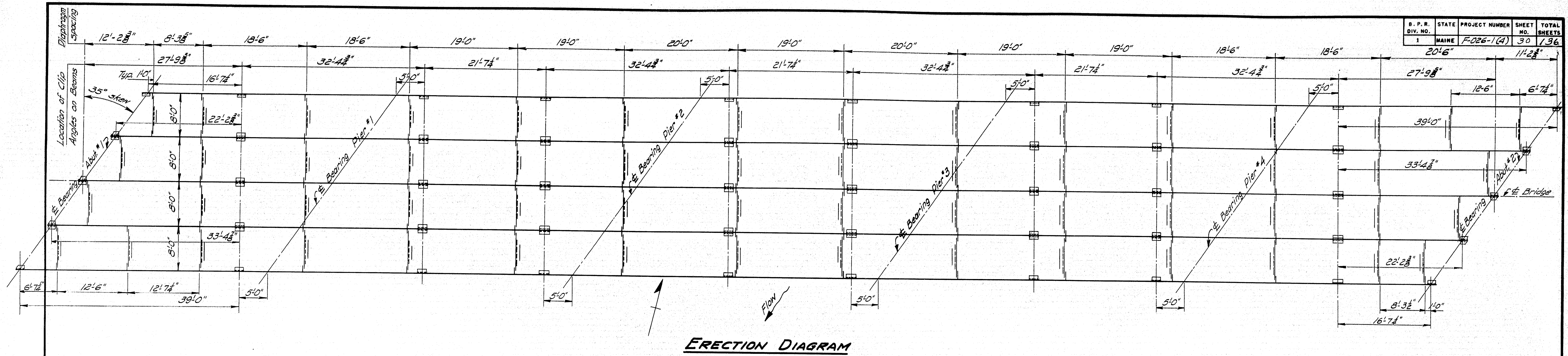
DESIGN - RISSEL	BRIDGE NO.
TRACE - WHITE	SURVEY
CHECK - [Signature]	PILOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
<b>NEQUASSET BRIDGE</b> OVER <b>NEQUASSET POND</b> IN THE TOWN OF <b>WOOLWICH</b> <b>SAGADAHOC COUNTY</b> PIERS	
SHEET 6 OF 12 AUGUSTA, MAINE OCT. 195	

M-716





S. P. R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-026-1(4)	30	136



**SPECIFICATIONS**

Design & Detail ~ A. A. S. H. O. 1953

Fabrication & Erection ~ State of Maine, State Highway Commission Standard Specifications, Revision of May 1953.

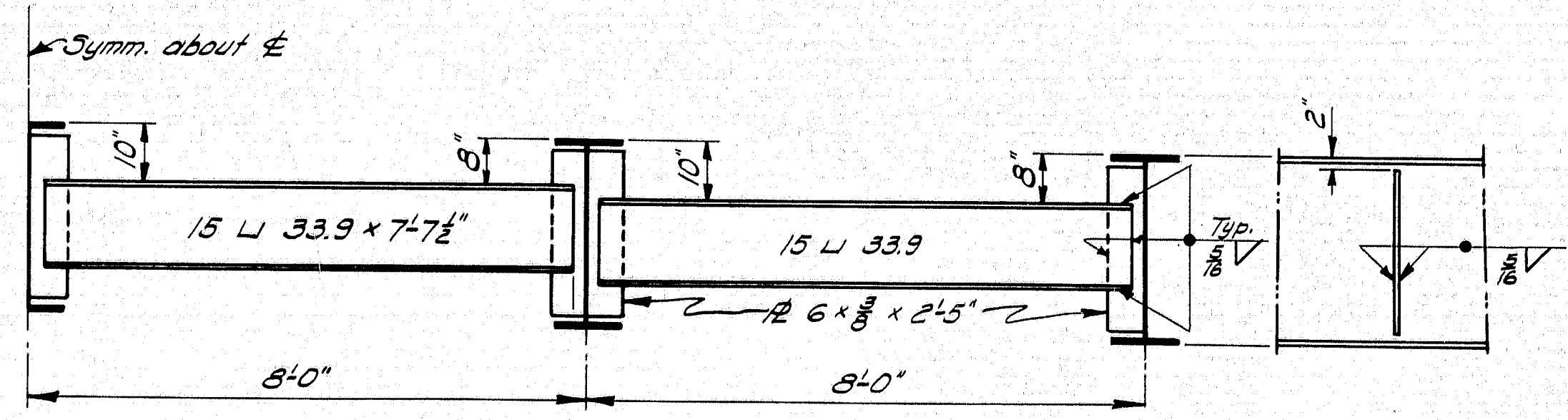
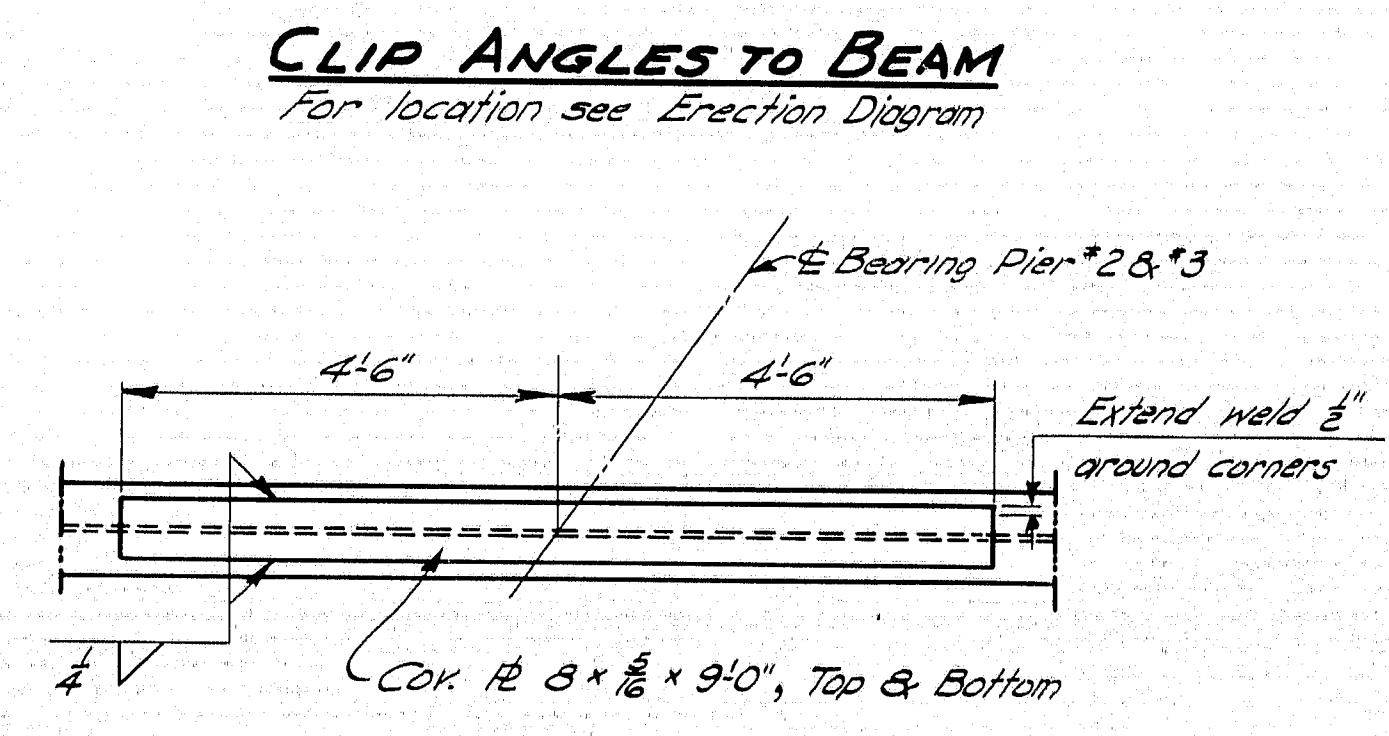
Beams & Cover Plates shall conform to the latest revised specifications for structural weldable steel of the A.S.T.M. Designation A-373.

All other structural steel shall conform to A.S.T.M. Designation A-373 or the latest revised specifications of A.S.T.M. Designation A-7.

Loading H20-S16-44

Rivets or High Tensile Strength Bolts  $\frac{3}{4}" \phi$

Holes  $\frac{1}{8}" \phi$



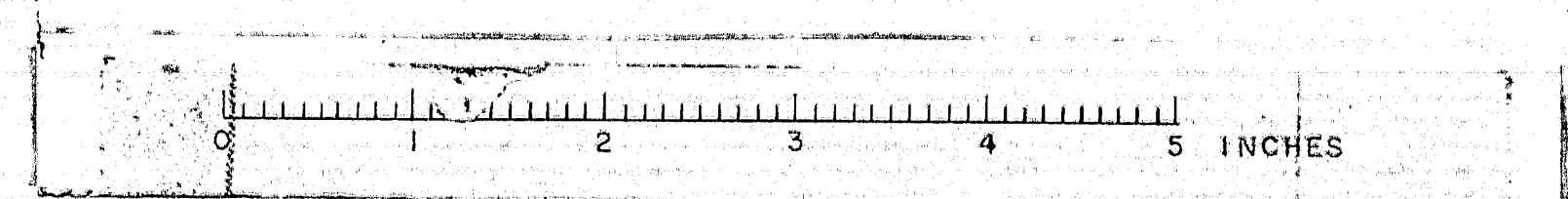
DESIGN - RISSEL  
TRACE - CLARK  
CHECK - A. B. P.

BRIDGE NO. 1  
DETAIL - LHW  
SURVEY - PLOT

STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

**NEQUASSET BRIDGE**  
OVER  
**NEQUASSET POND**  
IN THE TOWN OF  
**WOOLWICH**  
**SAGadahoc COUNTY**  
STRUCTURAL STEEL

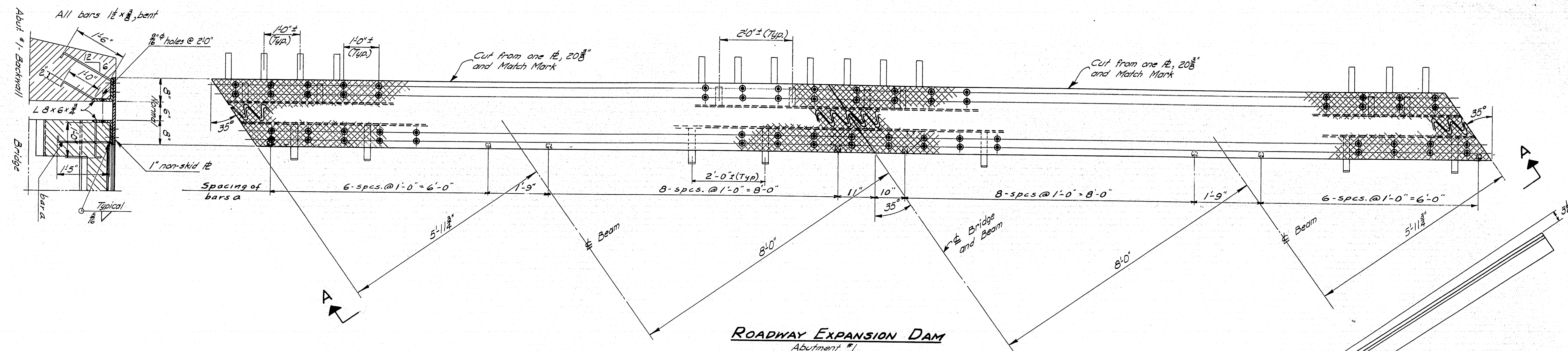
SHEET 7 OF 12 AUGUSTA, MAINE OCT. 1955



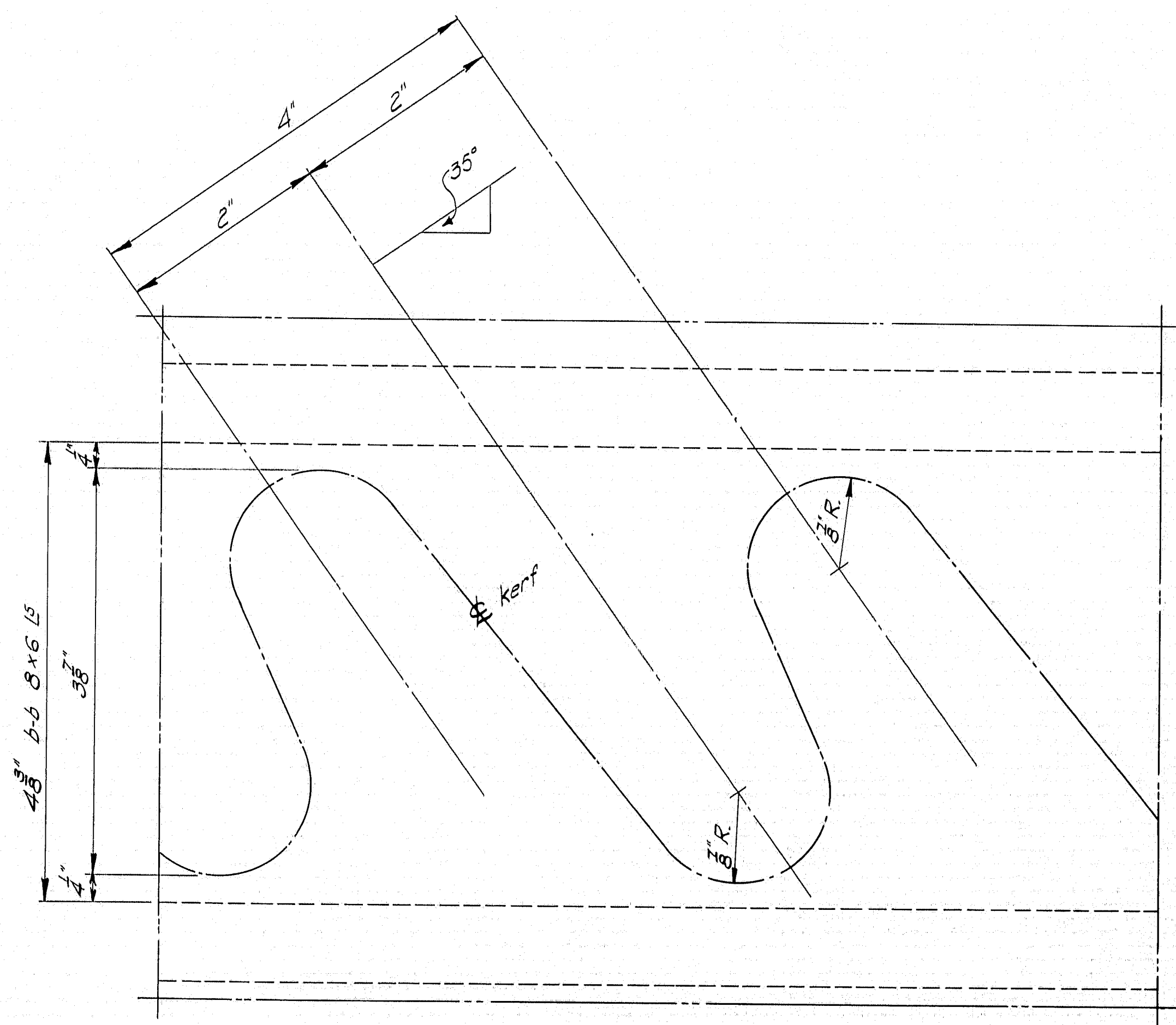
M-7117



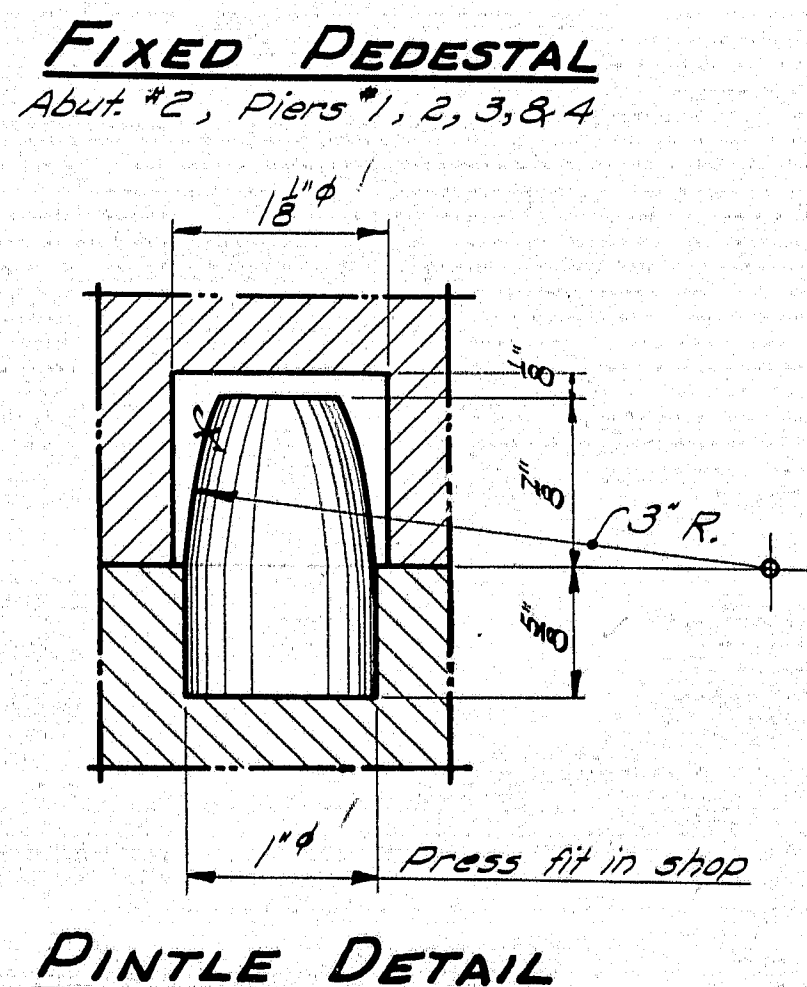
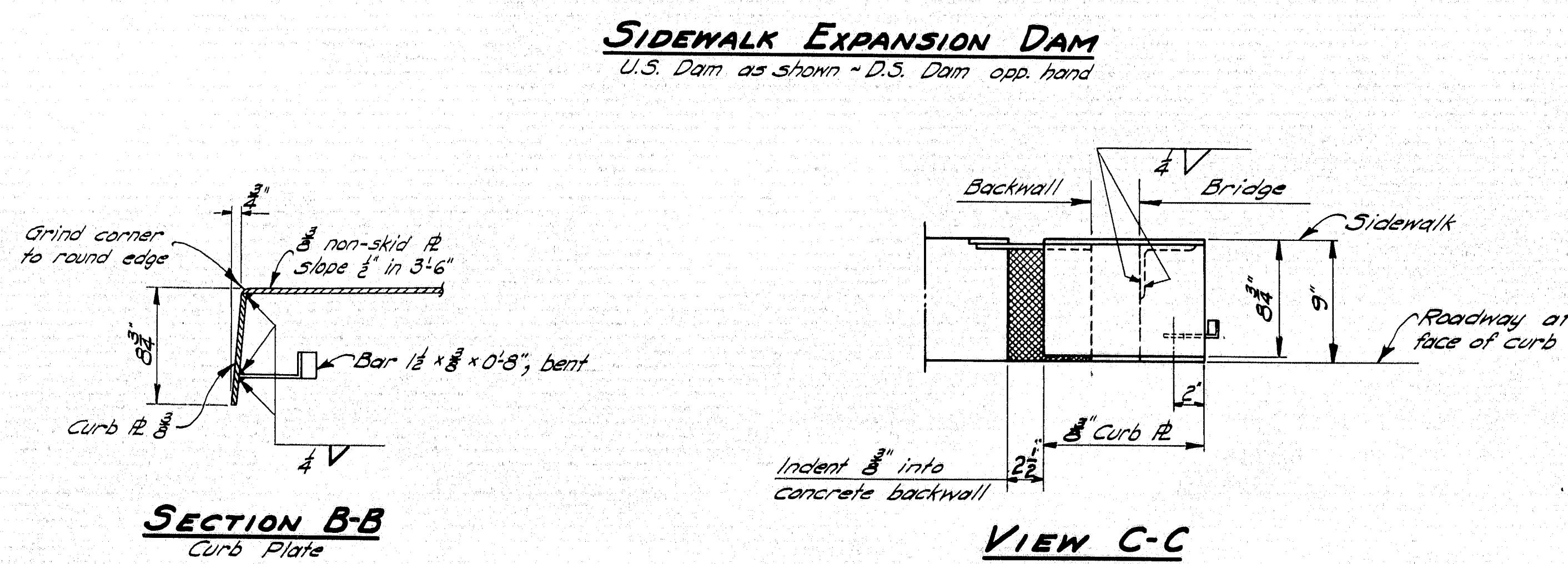
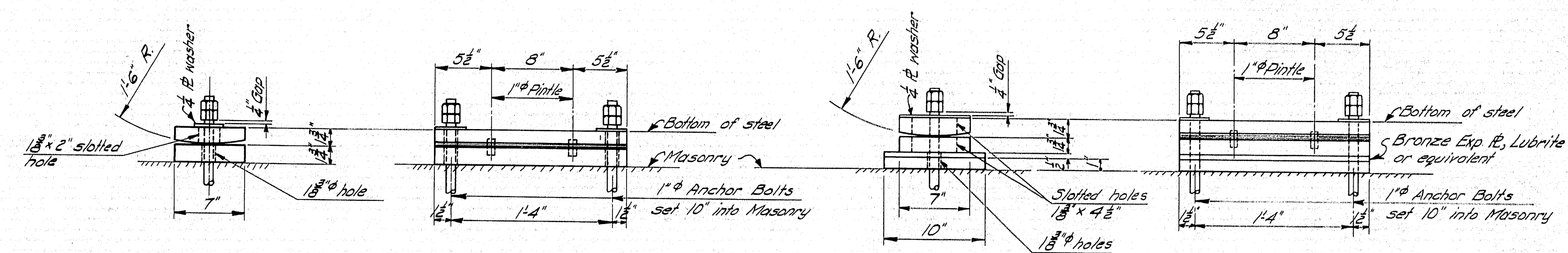
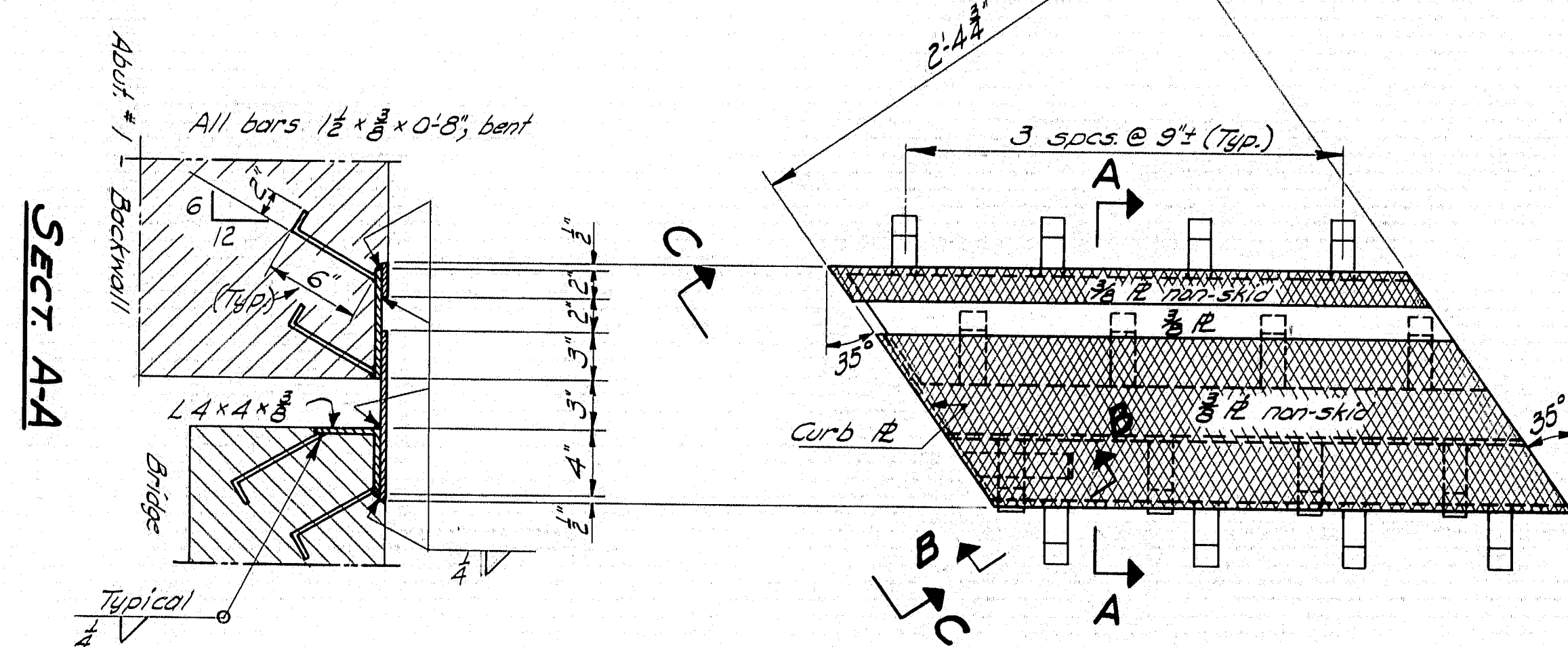
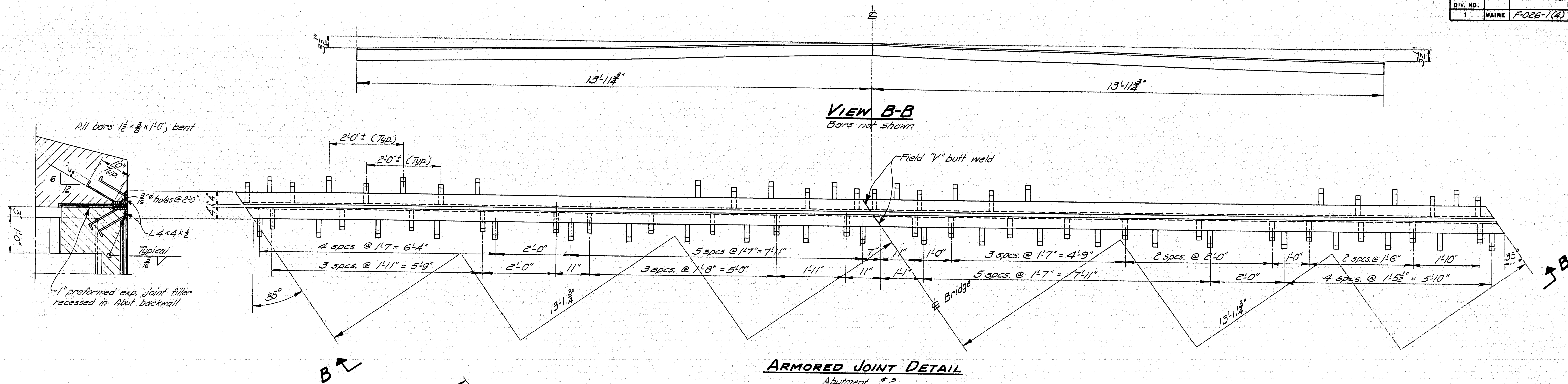
S. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-026-1(4)	31	136



**ROADWAY EXPANSION DAM**  
Abutment #1







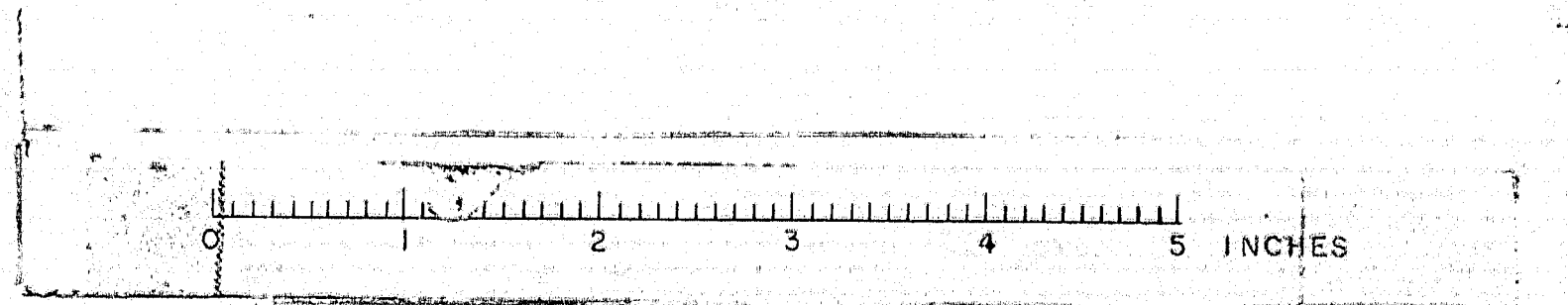
DESIGN-RISSEL  
TRACE-CLARK DETAIL-LHW  
CHECK-ABP

BRIDGE NO.  
SURVEY-  
PLOT-

STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

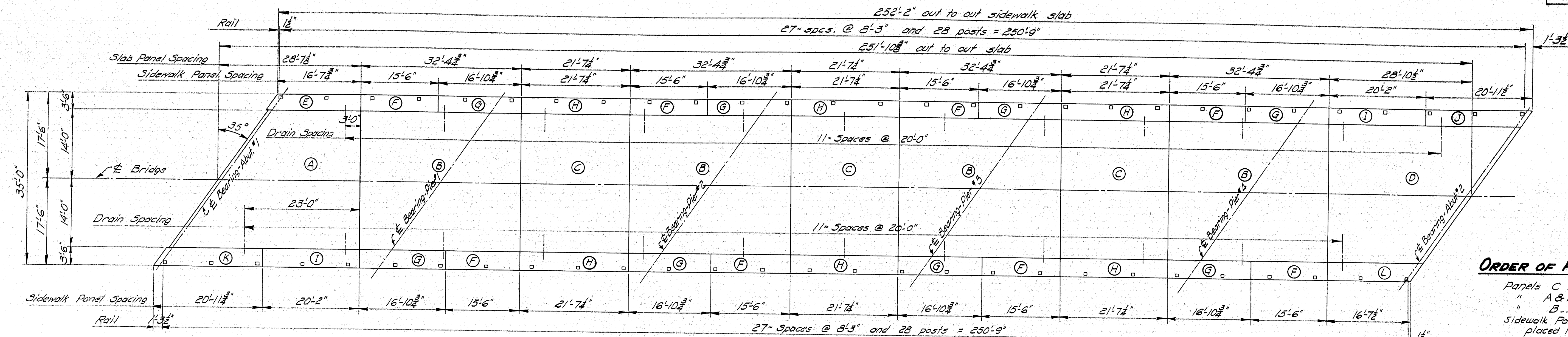
**NEQUASSET BRIDGE**  
OVER  
**NEQUASSET POND**  
IN THE TOWN OF  
**WOOLWICH**  
**SAGadahoc COUNTY**  
STRUCTURAL STEEL  
SHEET 9 OF 12 AUGUSTA, MAINE OCT. 1955

M-719

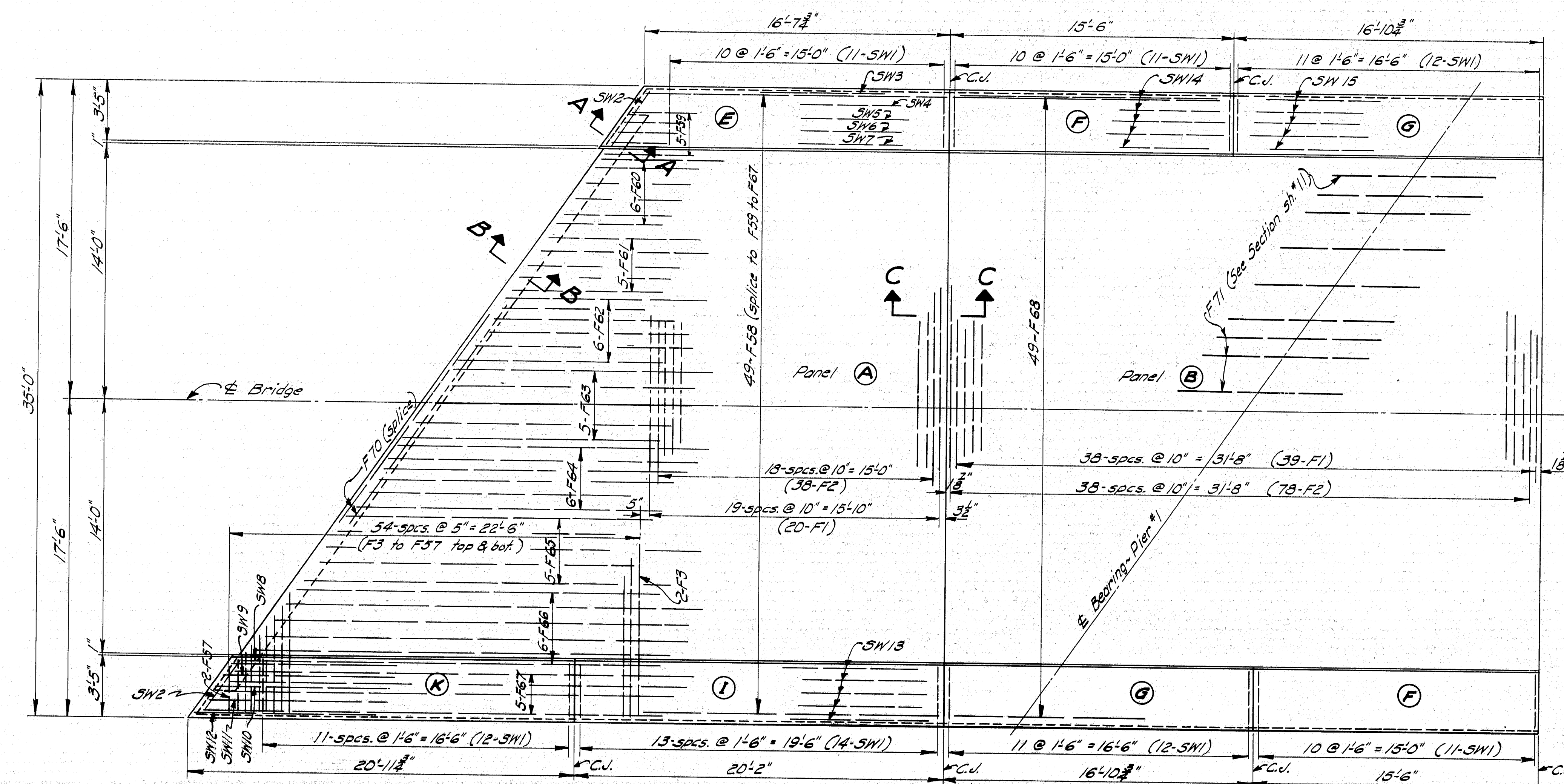




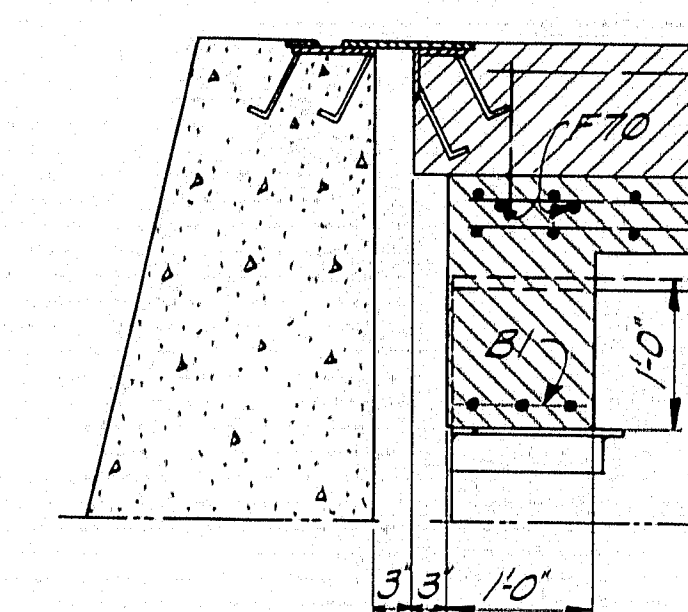
B. P. R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-026-1(4)	33	136



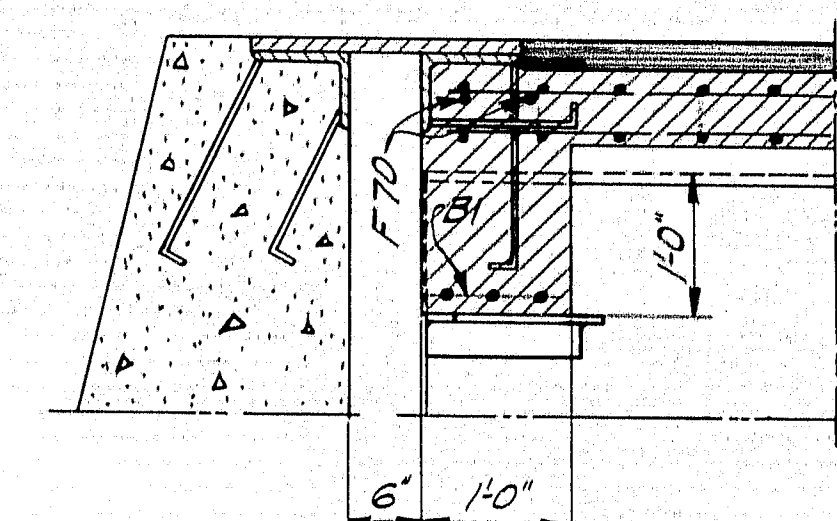
PLAN



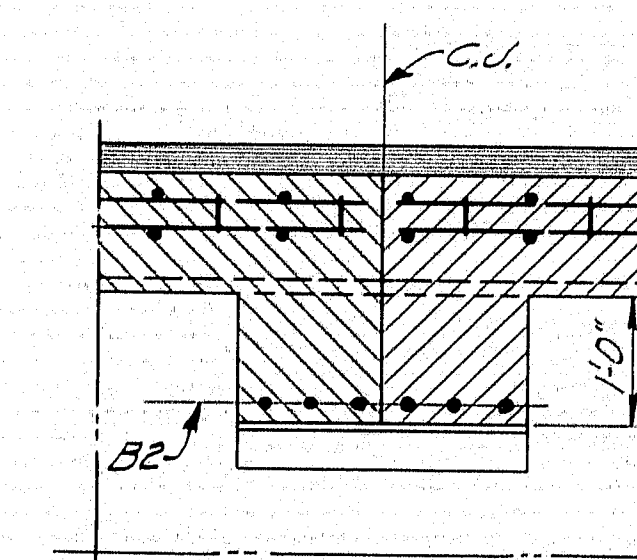
### SLAB DETAIL



SECTION A-A



SECTION B-B



SECTION C-C

# DESIGN

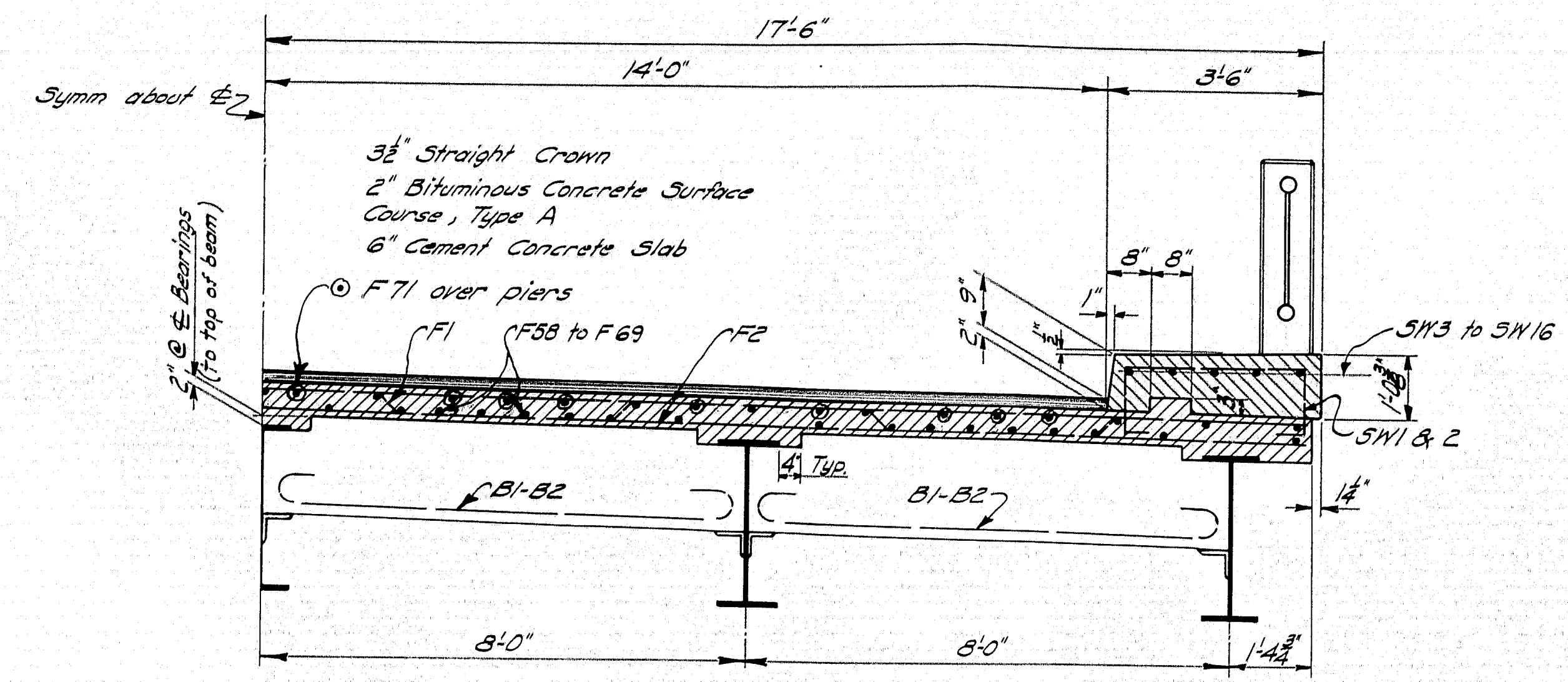
Specifications: A.A.S.H.O 1953  
Loading H 20-516-44  
 $f_s = 18,000$  p.s.i.  
 $f_c = 1,200$  p.s.i.  
 $n = 10$

DESIGN - RISSEL	BRIDGE NO.
TRACE - CLARK	DRAWN BY
CHECK - <i>C.S.A.</i>	PLOT -
STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	
NEQUASSET BRIDGE	
OVER	
NEQUASSET POND	
IN THE TOWN OF	
WOOLWICH	
SAGadahoc COUNTY	
SUPERSTRUCTURE	
SHEET 10 OF 12	AUGUSTA, MAINE OCT. 1955

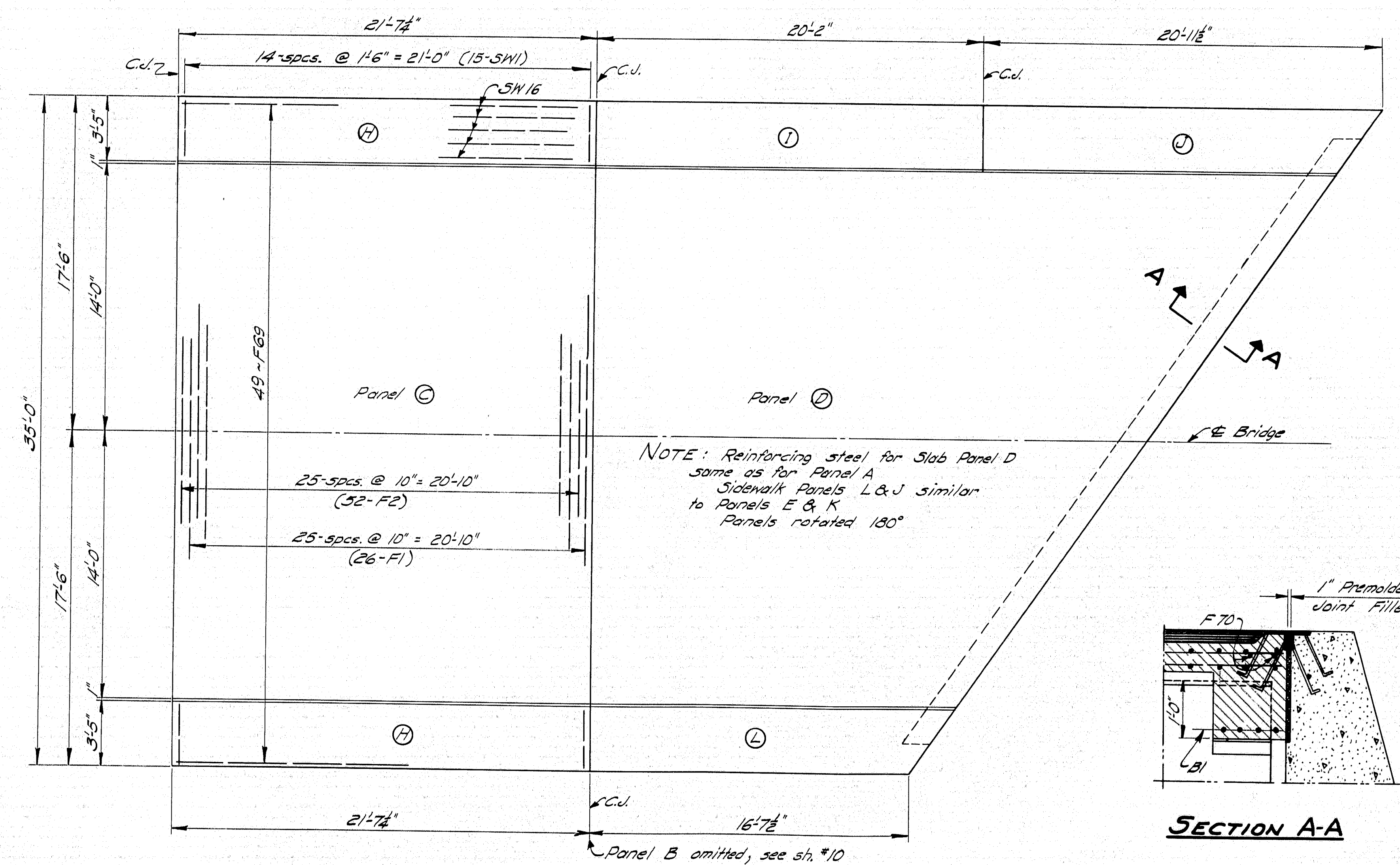
SHEET 10 OF 12 AUGUSTA, MAINE OCT. 1955

M-720

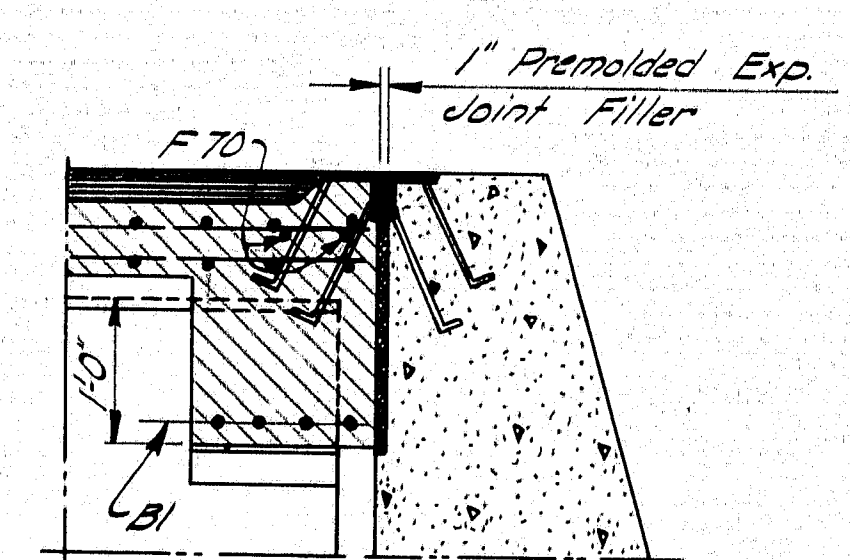




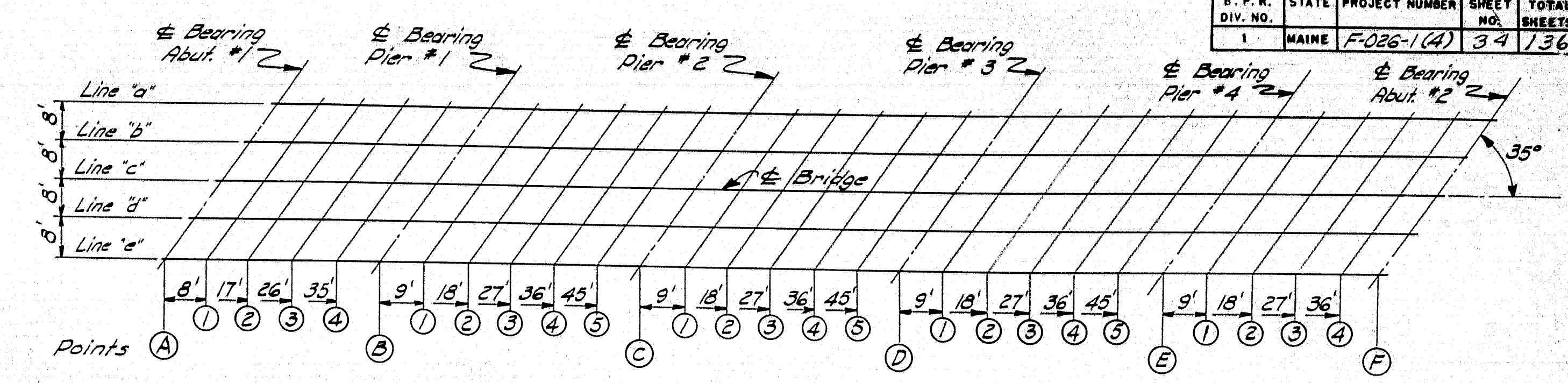
**HALF TRANSVERSE SECTION**



**SLAB DETAILS**

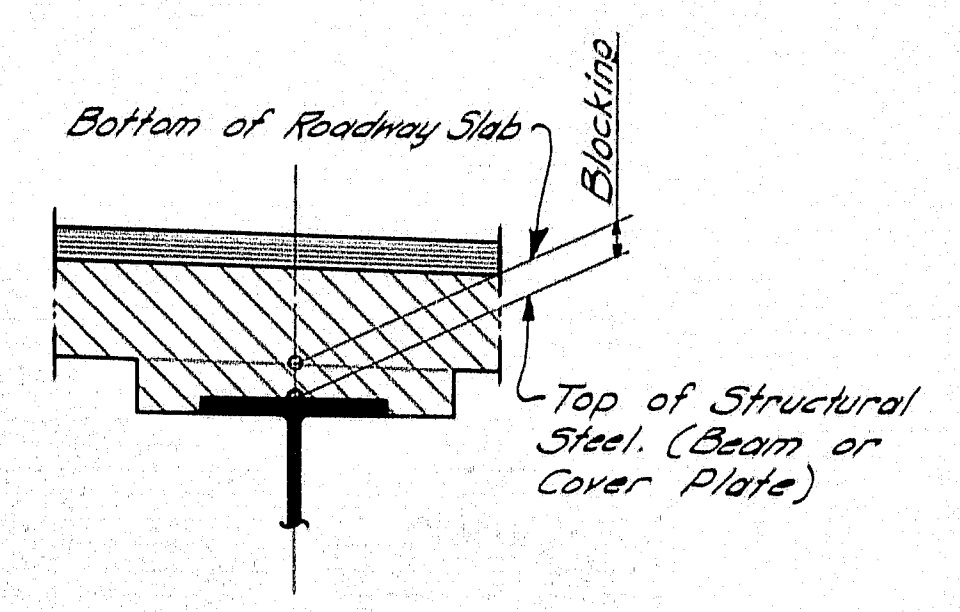


**SECTION A-A**



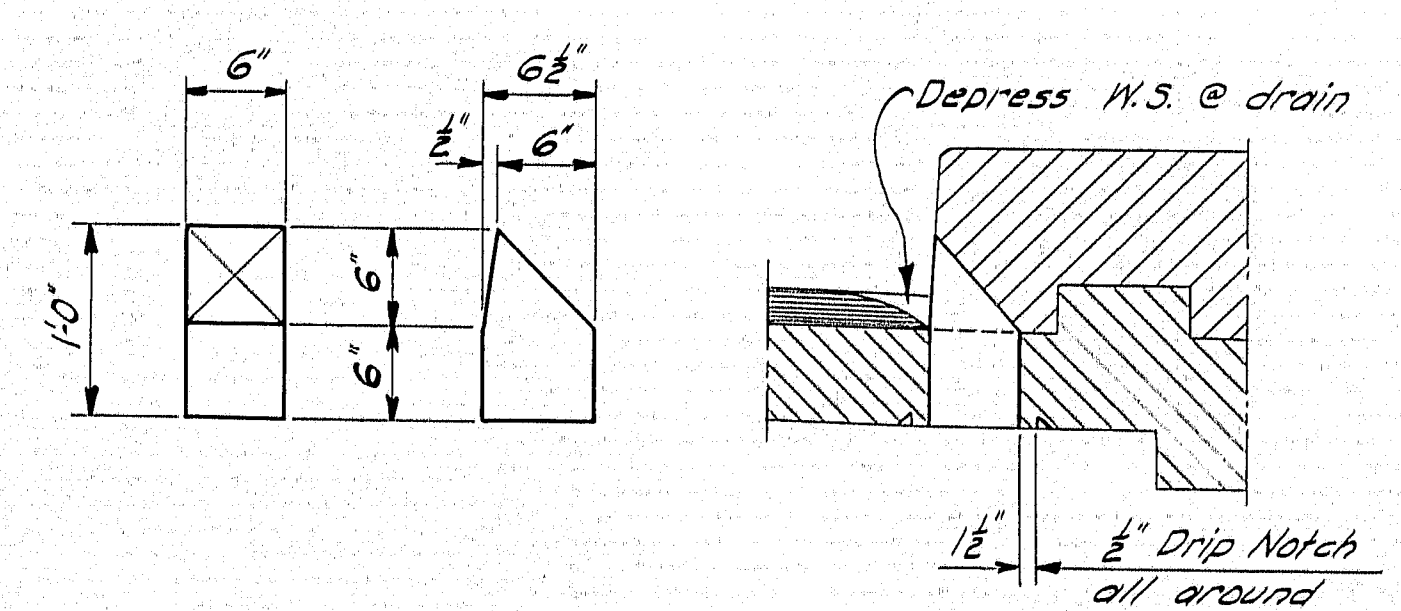
**BLOCKING PLAN**  
See Table Below

Point	Line "a"	Line "b"	Line "c"	Line "d"	Line "e"
A	41.85	41.98	42.12	41.92	41.72
A1	41.91	42.04	42.17	41.98	41.78
A2	41.96	42.10	42.23	42.03	41.83
A3	42.01	42.15	42.28	42.08	41.88
A4	42.06	42.19	42.32	42.13	41.93
B	42.11	42.24	42.37	42.18	41.98
B1	42.16	42.30	42.43	42.23	42.03
B2	42.22	42.36	42.49	42.29	42.09
B3	42.28	42.41	42.54	42.35	42.15
B4	42.33	42.46	42.59	42.40	42.20
B5	42.37	42.50	42.64	42.44	42.24
C	42.42	42.55	42.69	42.49	42.29
C1	42.48	42.61	42.74	42.55	42.35
C2	42.53	42.67	42.80	42.60	42.40
C3	42.59	42.72	42.86	42.66	42.46
C4	42.64	42.77	42.91	42.71	42.51
C5	42.68	42.82	42.95	42.75	42.55
D	42.73	42.87	43.00	42.80	42.60
D1	42.79	42.92	43.06	42.86	42.66
D2	42.85	42.98	43.12	42.92	42.72
D3	42.90	43.04	43.17	42.97	42.77
D4	42.95	43.09	43.22	43.02	42.82
D5	43.00	43.13	43.27	43.07	42.87
E	43.05	43.18	43.31	43.12	42.92
E1	43.10	43.23	43.37	43.17	42.97
E2	43.16	43.29	43.43	43.23	43.03
E3	43.21	43.35	43.48	43.28	43.08
E4	43.26	43.40	43.53	43.33	43.13
F	43.30	43.43	43.57	43.37	43.17



**BLOCKING DETAIL**  
(Typical)

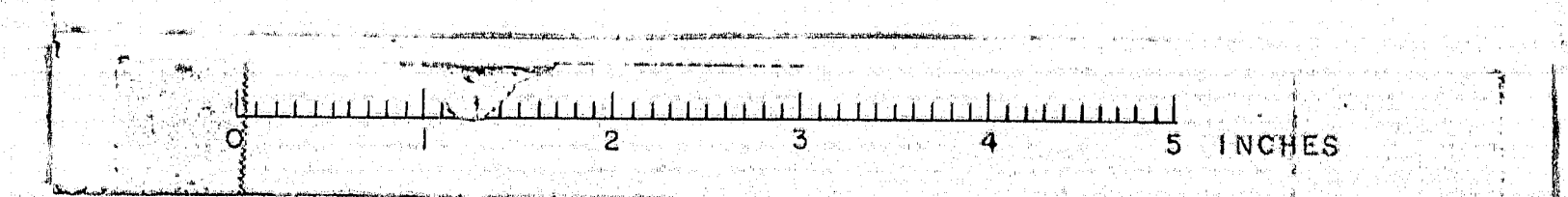
NOTE: To compensate for Dead Load Deflection as well as inaccuracies in rolling steel, the following procedure is to be used.  
Before any slabs forms are constructed, elevations are to be taken at the top of the structural steel at the points indicated and subtracted from "Elevation at Bottom of Roadway Slab." The result will be the blocking to be used when constructing forms.



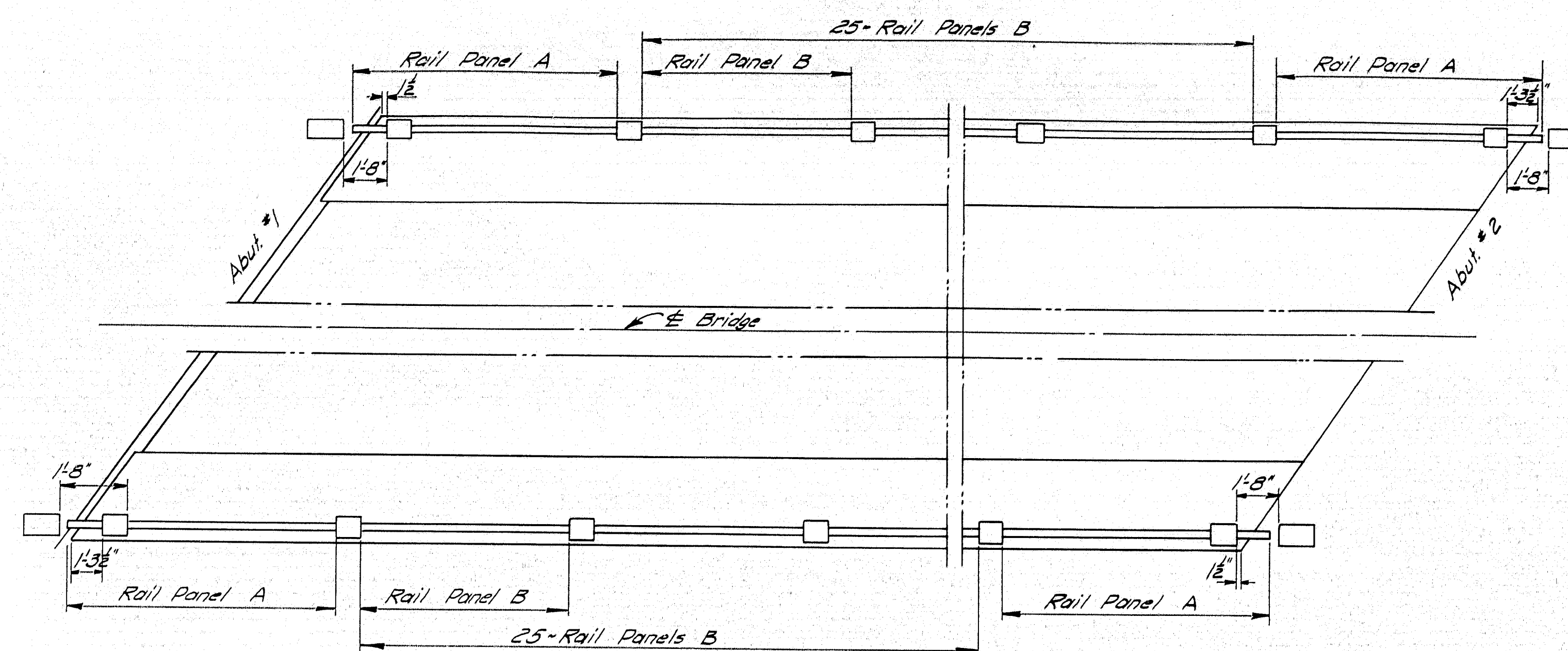
**METAL DRAIN FORM**  
#24 ga. galvanized iron  
24" x 48"

DESIGN-RISSEL	BRIDGE NO.
TRACE-CLARK	DETAIL-LHW
CHECK-C.S.A.	SURVEY-PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
<b>NEQUASSET BRIDGE</b>	
OVER	
<b>NEQUASSET POND</b>	
IN THE TOWN OF	
<b>WOOLWICH</b>	
<b>SAGadahoc COUNTY</b>	
SUPERSTRUCTURE	
SHEET 11 OF 12	AUGUSTA, MAINE OCT. 1955

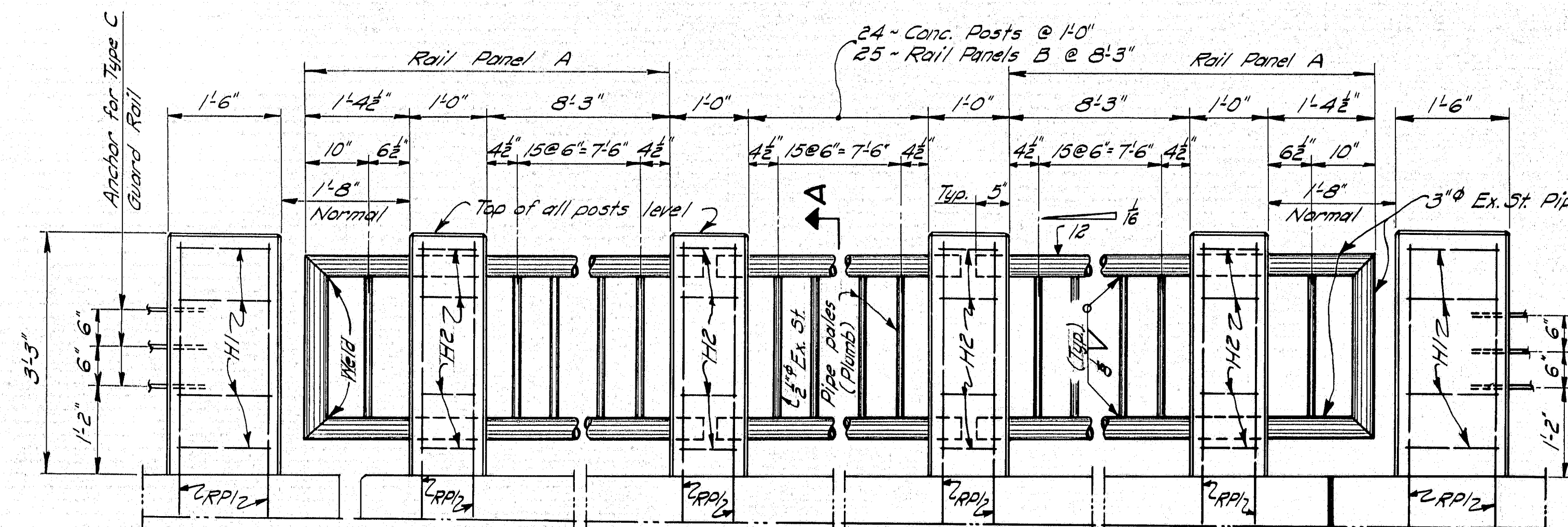
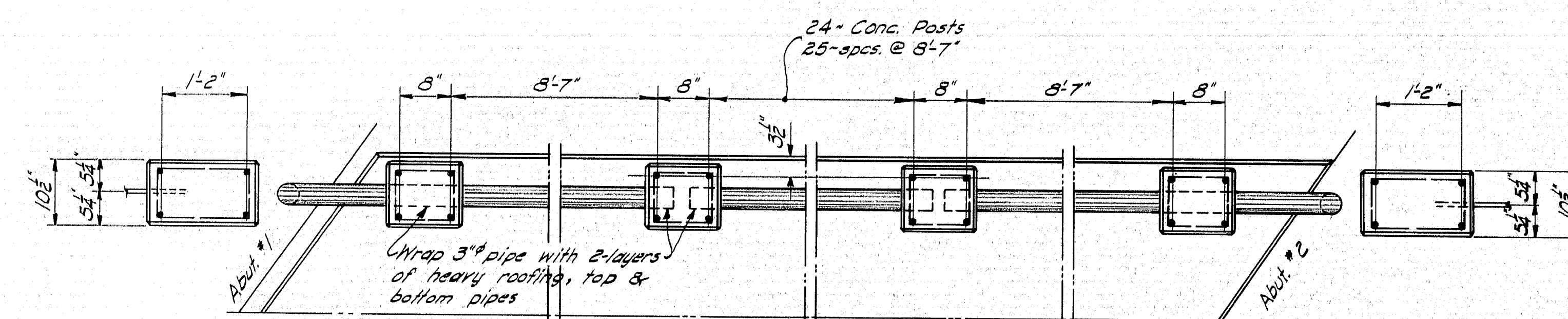
M-721







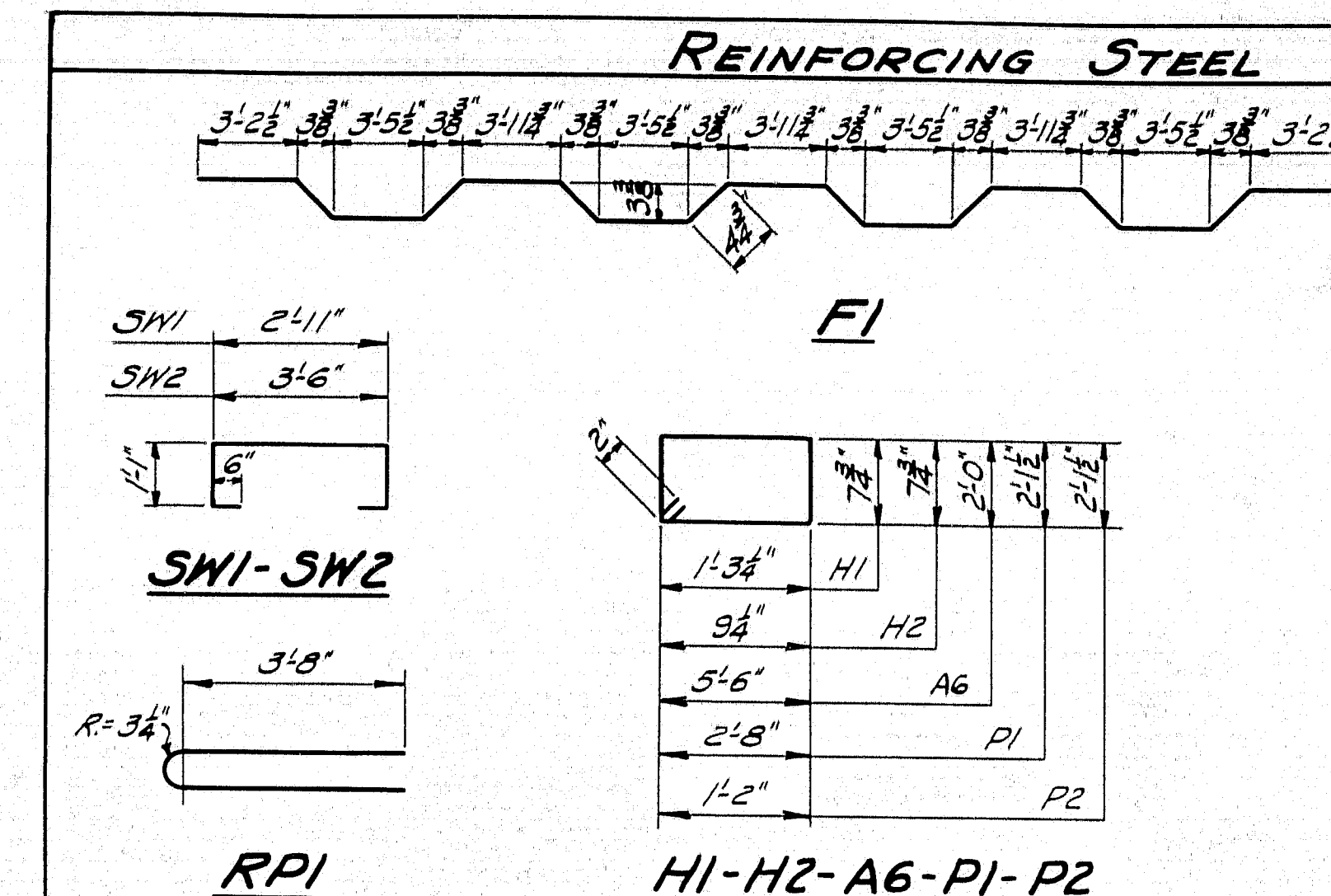
**RAIL PLAN**



**RAIL DETAIL**

Rail Panel A ~ 4 Regd.  
Rail Panel B ~ 30 Regd.

NOTE: Posts and piles to be plumb. All exposed edges of concrete to be chamfered 1/8" unless otherwise shown. Holes for 1/2" pipe to be drilled in the 3" pipe so that the 1/2" pipe will extend thru wall of 3" pipe. All exposed joints in Rail shall be finished by filling or grinding to give a neat appearing job. The Rail Details shall be submitted by the Contractor for approval before fabrication is started.



Dimensions to 1/8 bars.

Mark	Size	No.	Length	Location
F1	#5	274	35'-4"	Slab
B1	#7	28	11'-7"	End Diaphragms
B2	#7	192	9'-11"	Int.
SW1	#4	348	6'-1"	Sidewalk Slab
SW2	#4	4	6'-8"	"
RPI	#6	120	8'-2"	All posts

Mark	Size	No.	Length	Location
F2	#5	544	34'-5"	Slab
F3	#4	4	34'-1"	Slab Panels A & D
F4	#4	4	33'-6"	"
F5	#4	4	32'-11"	"
F6	#4	4	32'-4"	"
F7	#4	4	31'-8"	"
F8	#4	4	31'-1"	"
F9	#4	4	30'-6"	"
F10	#4	4	29'-11"	"
F11	#4	4	29'-4"	"
F12	#4	4	28'-9"	"
F13	#4	4	28'-2"	"
F14	#4	4	27'-6"	"
F15	#4	4	26'-11"	"
F16	#4	4	26'-4"	"
F17	#4	4	25'-9"	"
F18	#4	4	25'-2"	"
F19	#4	4	24'-7"	"
F20	#4	4	24'-0"	"
F21	#4	4	23'-4"	"
F22	#4	4	22'-9"	"
F23	#4	4	22'-2"	"
F24	#4	4	21'-7"	"
F25	#4	4	21'-0"	"
F26	#4	4	20'-5"	"
F27	#4	4	19'-10"	"
F28	#4	4	19'-2"	"
F29	#4	4	18'-7"	"
F30	#4	4	18'-0"	"
F31	#4	4	17'-5"	"
F32	#4	4	16'-10"	"
F33	#4	4	16'-3"	"
F34	#4	4	15'-8"	"
F35	#4	4	15'-1"	"
F36	#4	4	14'-5"	"
F37	#4	4	13'-10"	"
F38	#4	4	13'-3"	"
F39	#4	4	12'-8"	"
F40	#4	4	12'-1"	"
F41	#4	4	11'-6"	"
F42	#4	4	10'-11"	"
F43	#4	4	10'-3"	"
F44	#4	4	9'-8"	"
F45	#5	4	9'-1"	Slab Panels A & D

DESIGN - RISSEL  
TRACE - CLARK  
CHECK - CLARK

BRIDGE NO. SURVEY -  
DETAIL - LHW  
PLOT -

STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

**NEQUASSET BRIDGE**  
OVER  
**NEQUASSET POND**  
IN THE TOWN OF  
**WOOLWICH**  
**SAGADAHOC COUNTY**  
PIPE RAIL DETAIL & REINFORCING STEEL

SHEET 12 OF 12 AUGUSTA, MAINE OCT. 1955

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