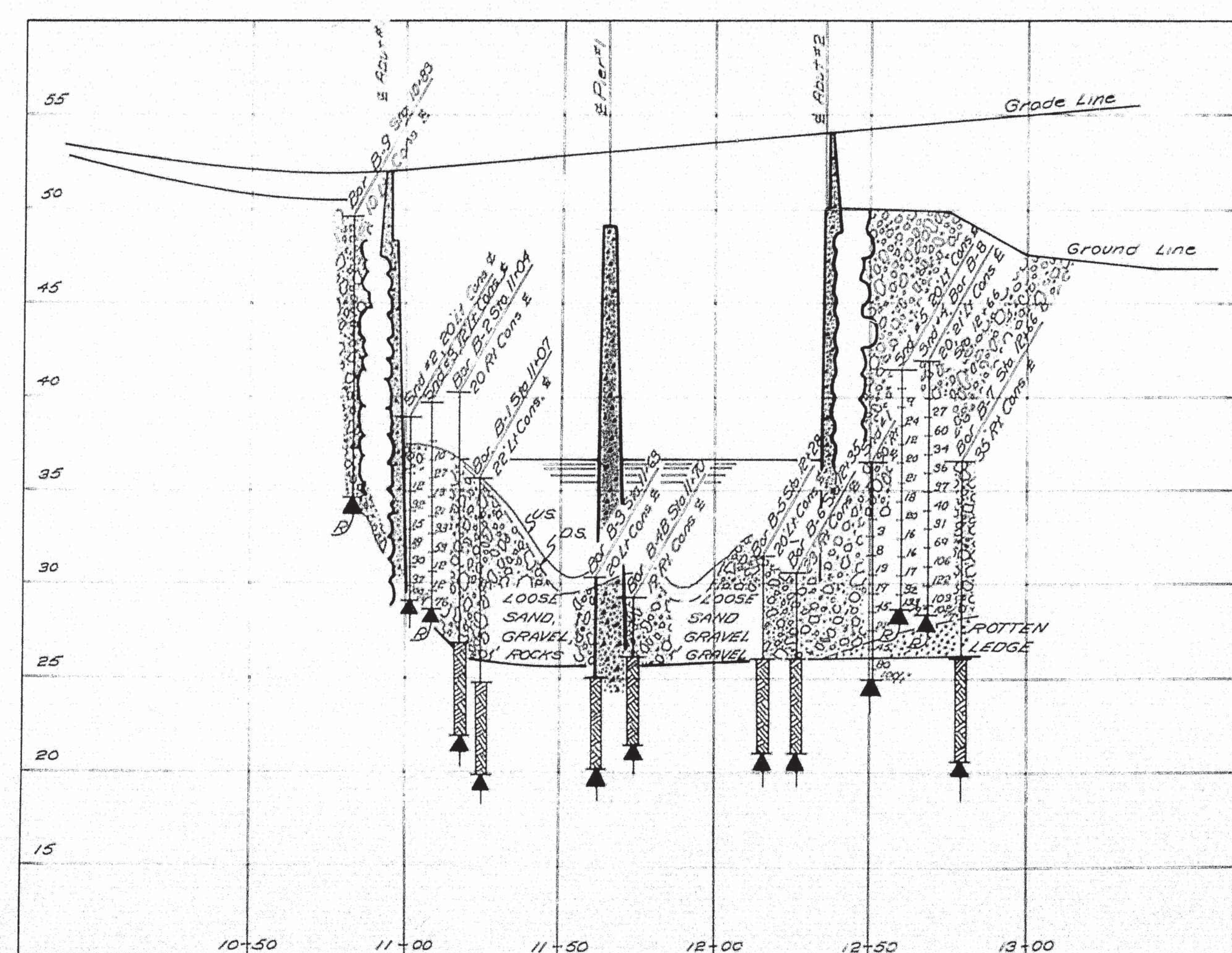
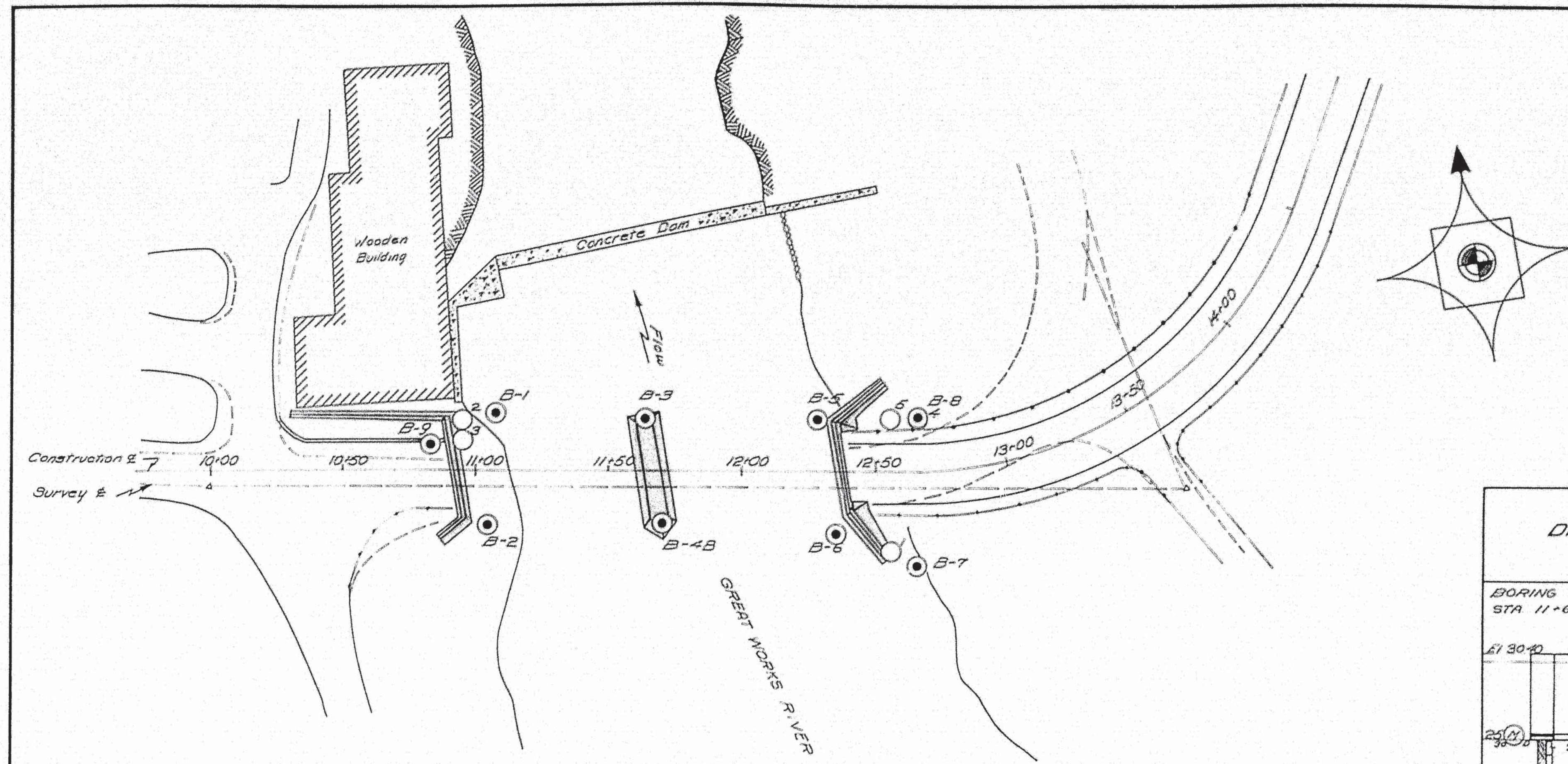




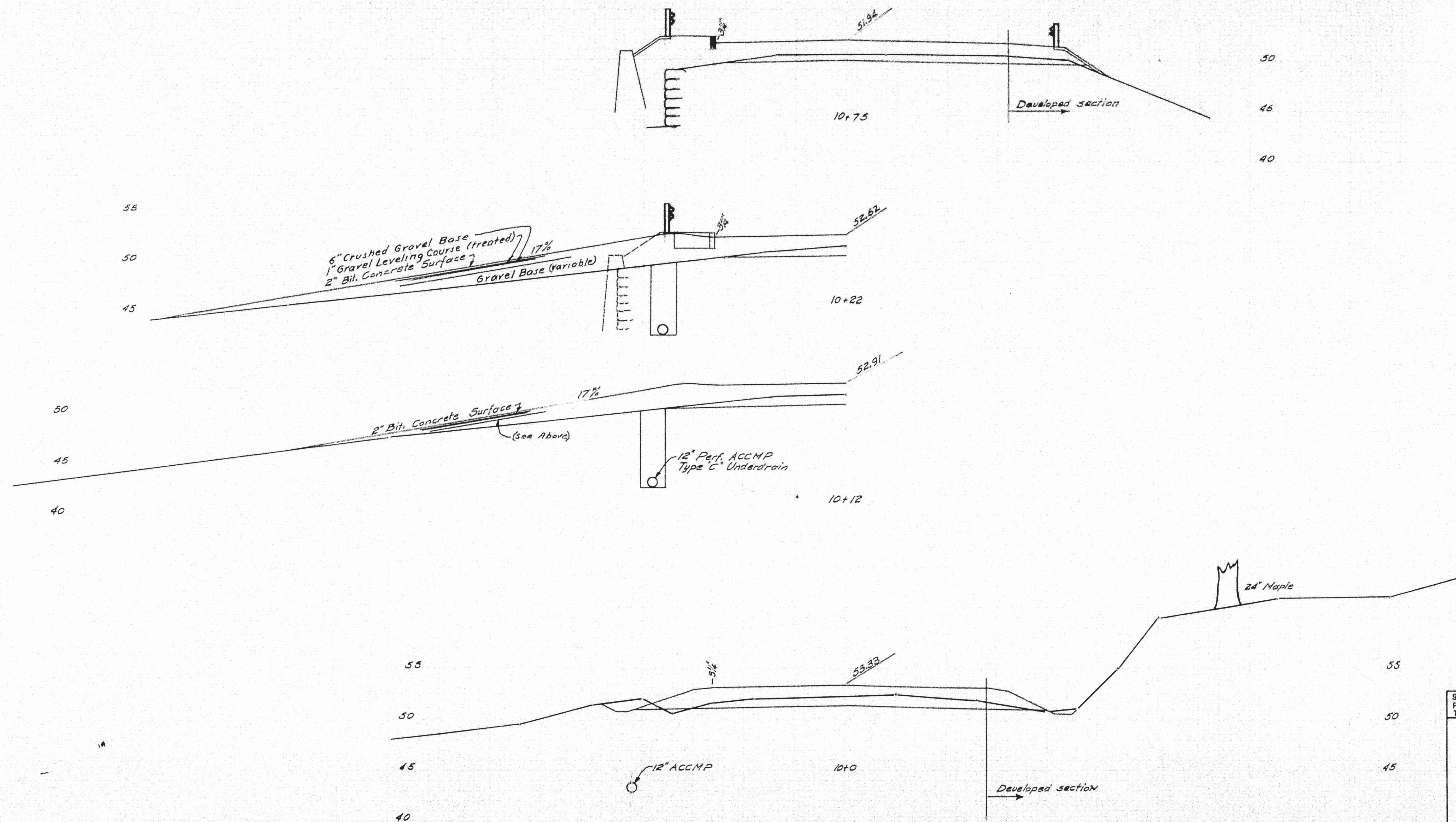
DRIVING RESISTANCE		DRIVING RESISTANCE	
BORING NO B-1 STA 11+07	(2 1/2" CASING) 22' LT. &	BORING NO B-2 STA 11+04	(2 1/2" CASING) 20' RT. &
BORING NO B-3 STA 11+63	(2 1/2" CASING) 20' LT. &	BORING NO B-4B STA 11+70	(2 1/2" CASING) 19' RT. &
BORING NO B-6 STA 12+35	(2 1/2" CASING) 23' RT. &	BORING NO B-7 STA 12+66	(2 1/2" CASING) 35' RT. &
BORING NO B-9 STA 10+83	(2 1/2" CASING) 10' LT. &		

LEGEND	
	Location and designation of dry samples taken in 54" sampler #1290s indicated thus:
	Unsuccessful attempts to secure dry sample indicated thus, followed by type of sampler:
	Number of blows of 275' hammer falling 15' required to drive spoon or tubing one foot:
	Bottom of boring:
	Refusal of drill rods or casing:
	Percent recovery of rock core by diamond bit:

DESIGN - *Boyc*
 CHECK - *Boyc*
 BRIDGE NO. 5948
 SURVEY PLOT
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
GREAT WORKS BRIDGE
 OVER
GREAT WORKS RIVER
 IN THE TOWN OF
SOUTH BERWICK
YORK COUNTY
 SOILS SURVEY
 SHEET 3 OF 13 AUGUSTA, MAINE JUNE 1959

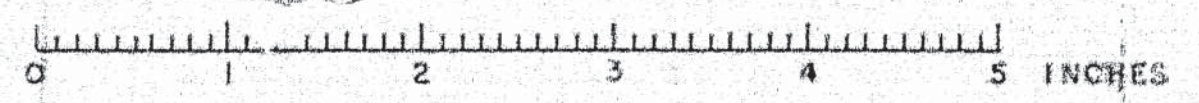
W.P.D.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

BRIDGE

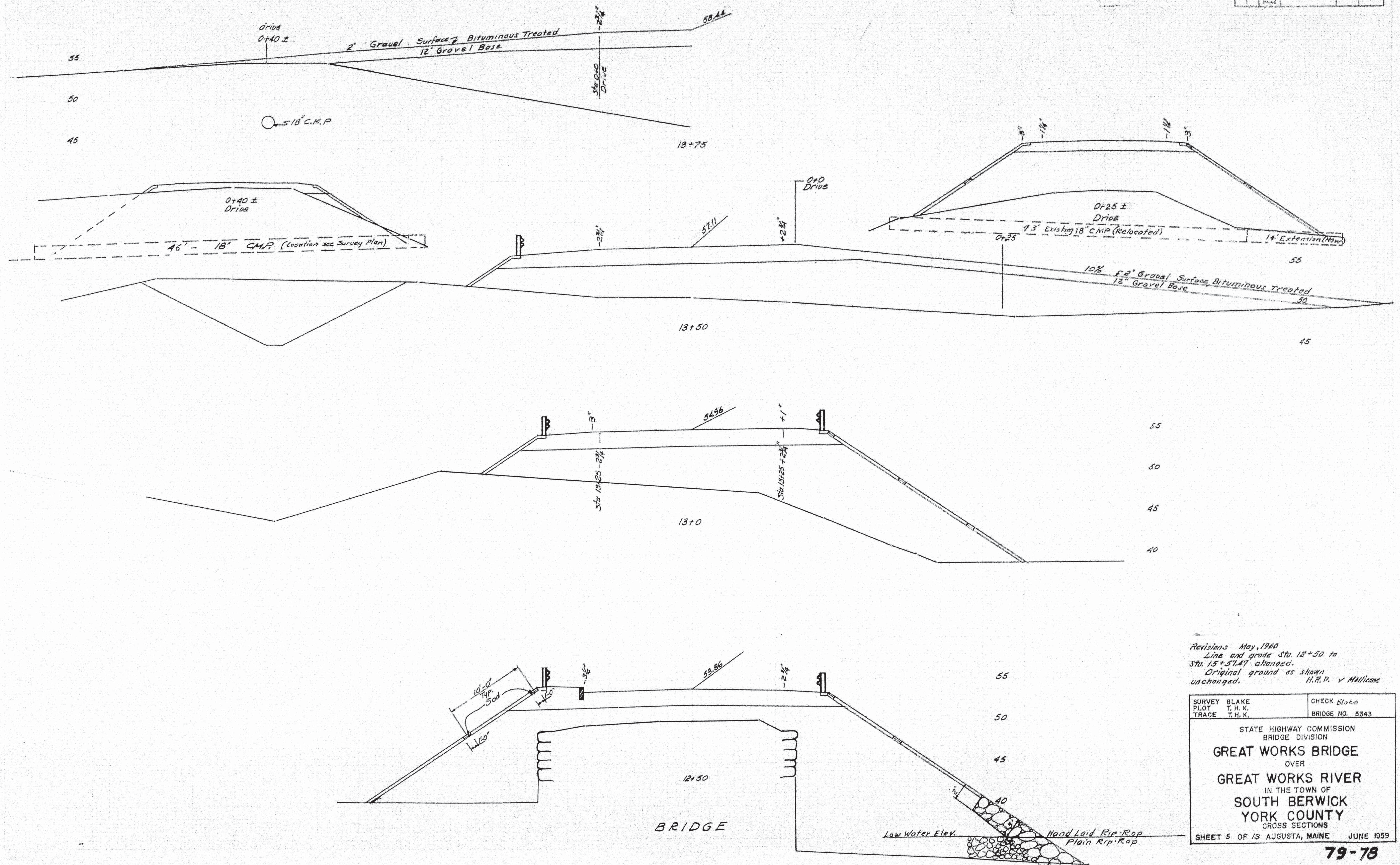


SURVEY BLAKE	CHECK <i>for file</i>
PLOT T. H. K.	BRIDGE NO. 5343
TRACE T. H. K.	
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
GREAT WORKS BRIDGE OVER GREAT WORKS RIVER IN THE TOWN OF SOUTH BERWICK YORK COUNTY	
CROSS SECTIONS	
SHEET 4 OF 13 AUGUSTA, MAINE JUNE 1959	

79-77



DES. NO.	DATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	1960			

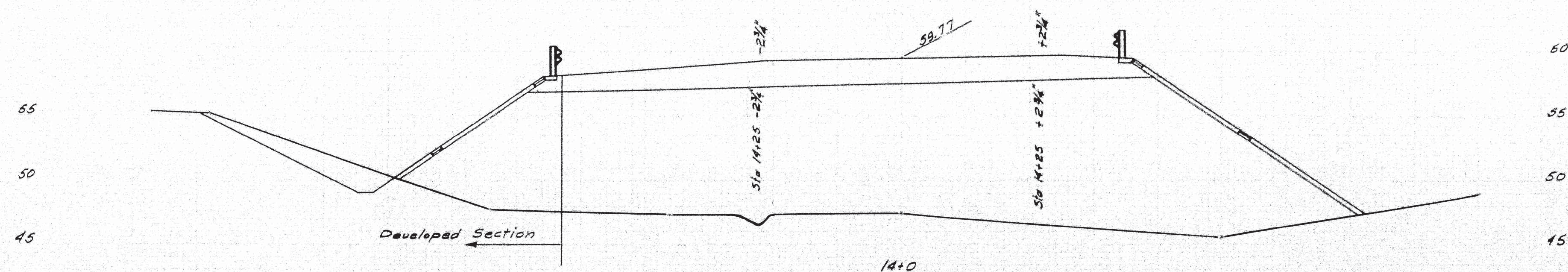
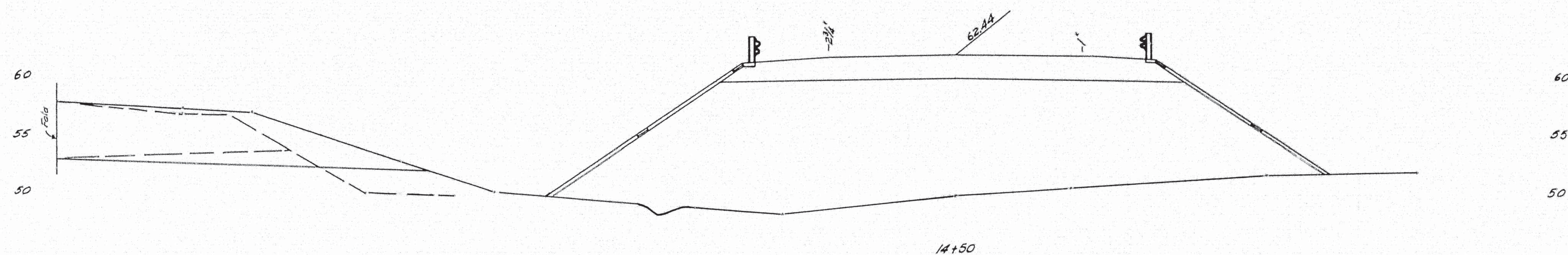
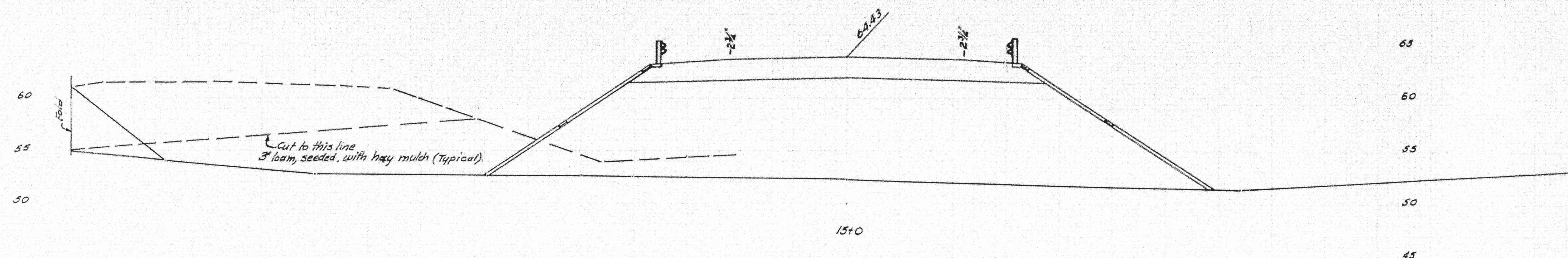


Revisions May, 1960
Line and grade Sta. 12+50 to
Sta. 13+57.47 changed.
Original ground as shown
unchanged. H.M.D. v. Williams

SURVEY BLAKE	CHECK 6/1/60
PLOT T.H.K.	BRIDGE NO. 5343
TRACE T.H.K.	
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
GREAT WORKS BRIDGE OVER GREAT WORKS RIVER IN THE TOWN OF SOUTH BERWICK YORK COUNTY CROSS SECTIONS	
SHEET 5 OF 13 AUGUSTA, MAINE JUNE 1959	

79-78

SHEET NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
7	MAINE			

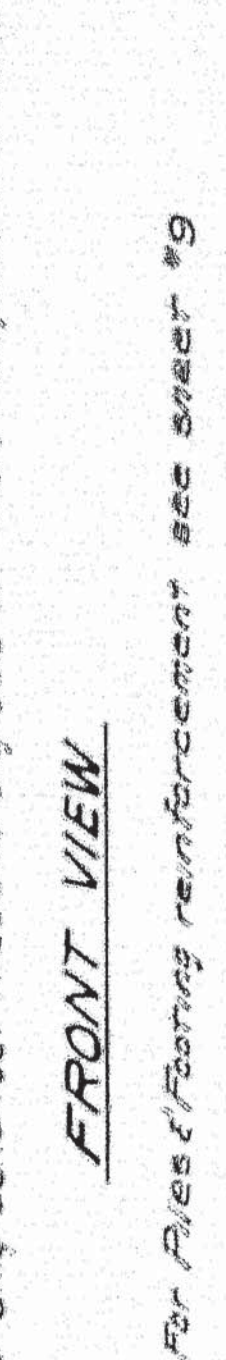


Revisions May, 1960
Line and grade Sta. 12+50 to
Sta. 13+57.47 changed.
Original ground as shown
unchanged. H.R.D. & M.H.K.

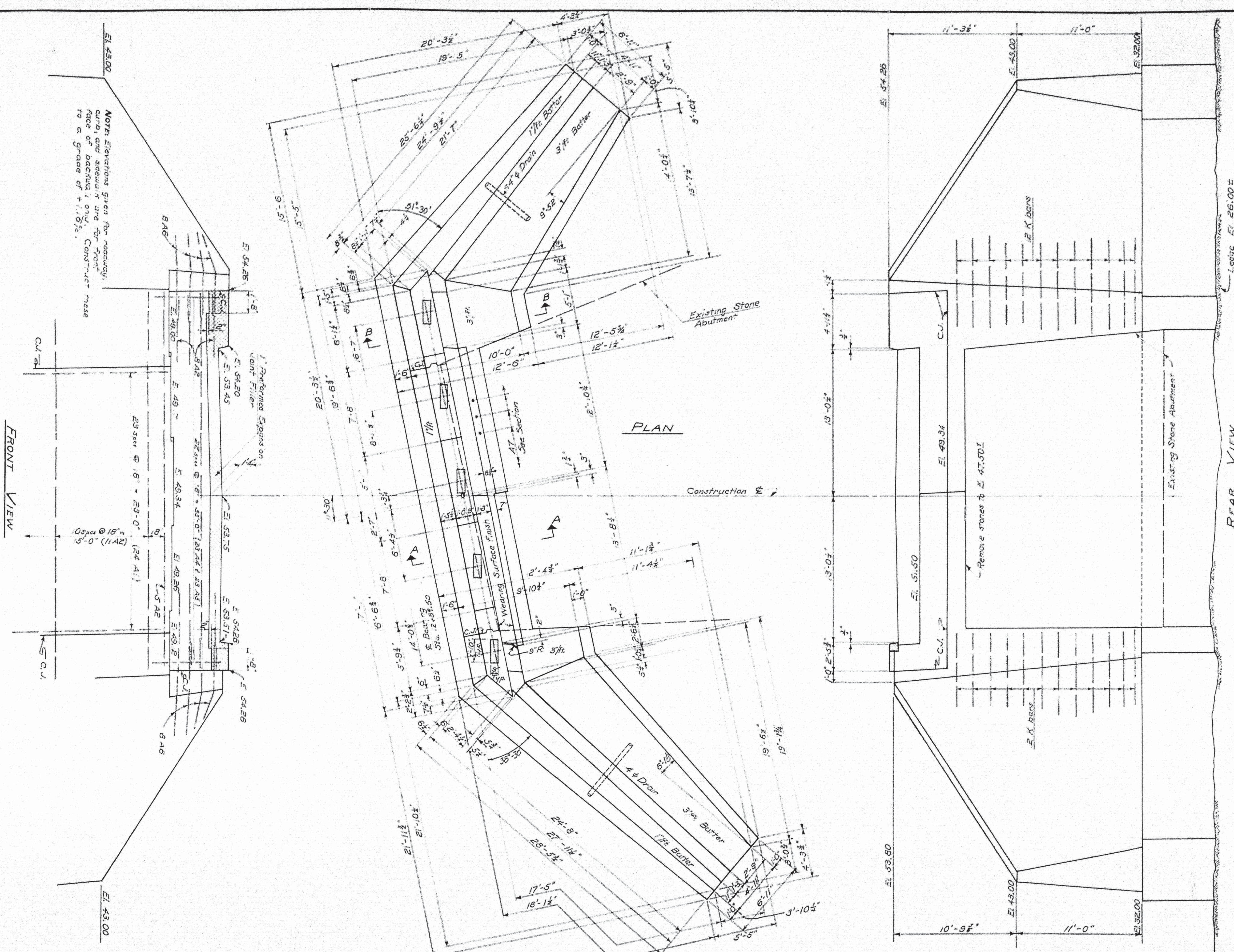
SURVEY	BLAKE	CHECK	STU & G
PLOT	T. H. K.	BRIDGE NO.	5343
TRACE	T. H. K.		
STATE HIGHWAY COMMISSION BRIDGE DIVISION GREAT WORKS BRIDGE OVER GREAT WORKS RIVER IN THE TOWN OF SOUTH BERWICK YORK COUNTY CROSS SECTIONS SHEET 6 OF 13 AUGUSTA, MAINE JUNE 1959			

79-79

0 1 2 3 4 5 INCHES



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



NOTE: Elevations given for roadway, curb, and sidewalk are for 70% face of backing; one "Construction" made to a grade of +1.0%.

NOTE: For Sections A-A, B-B, and notes, see Sheet No. 9

DESIGN: M.C.R. & T.H.K.	BRIDGE NO. 53-49
TRACE: 45	SURVEY: 1958
CHECK: C.B.A.	PLOT: 1959

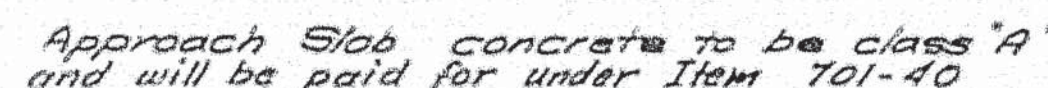
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

GREAT WORKS BRIDGE
OVER
GREAT WORKS RIVER
IN THE TOWN OF
SOUTH BERWICK
YORK COUNTY
ABUTMENT 2

SHEET 8 OF 13 AUGUSTA, MAINE JUNE 1959

79-81

NOTES :

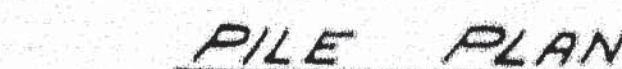


ABUTMENT No. 2

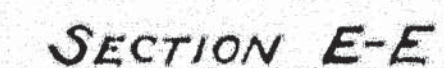


SECTION A-A

ABUTMENT No. 1.



12" x 53" H Piles 10' long - 24 Required
Batter front row of piles 2 1/2' ft where possible.



SECTION F-F
French Drain not shown

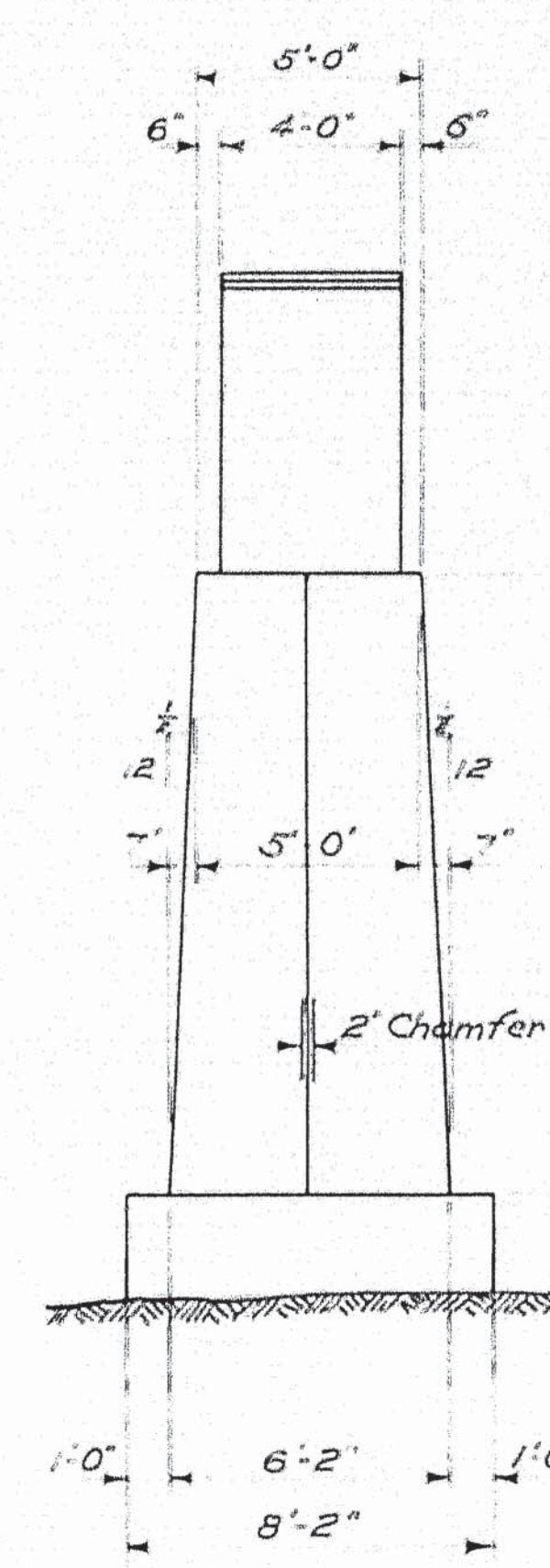
DESIGN - M.C.R./T.H.K.	BRIDGE NO. 3373
TRACE - N.P.	PLG:
CHECK - C.S.A.	

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

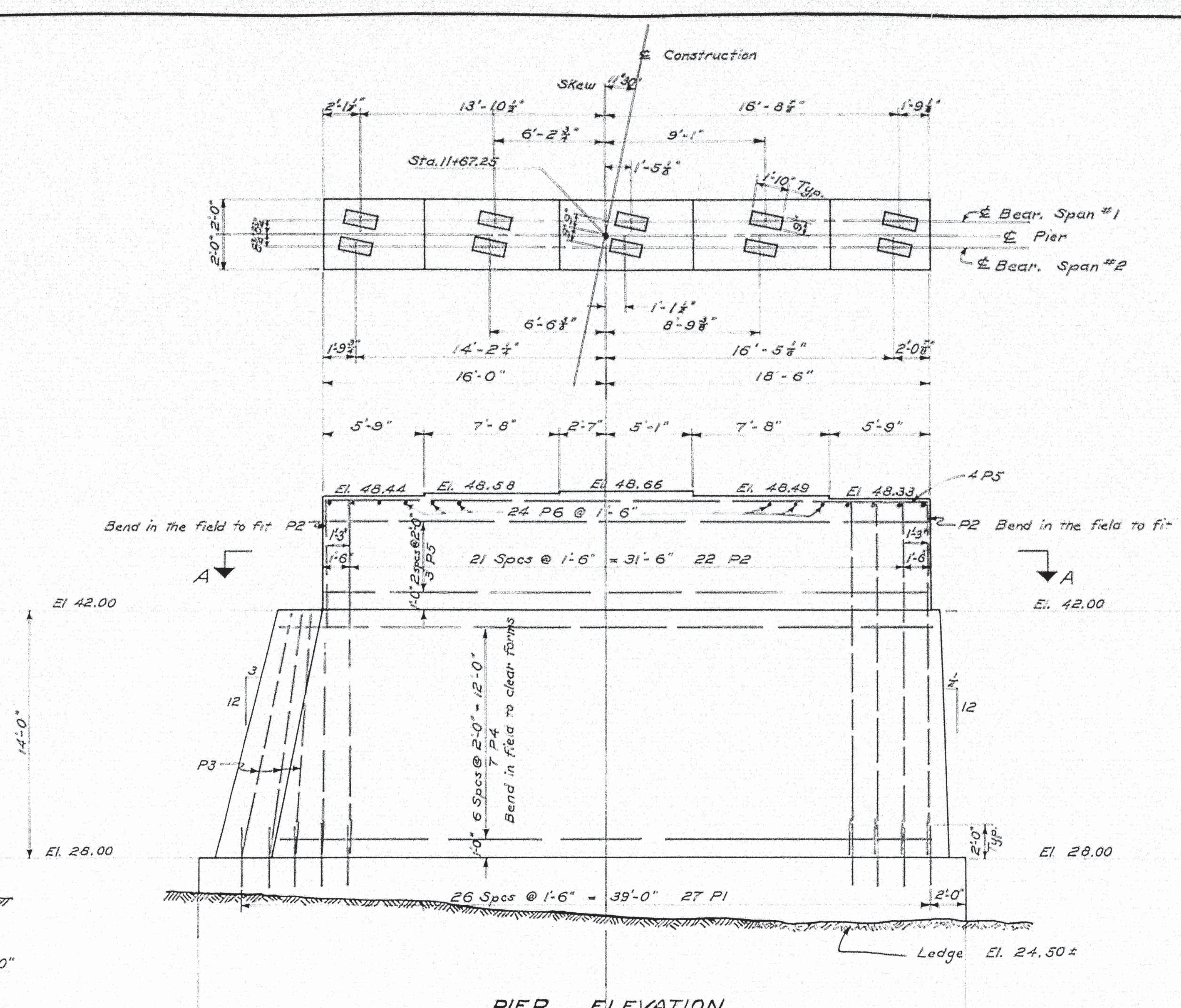
GREAT WORKS BRIDGE
OVER
GREAT WORKS RIVER
IN THE TOWN OF
SOUTH BERWICK
YORK COUNTY
ABUTMENTS

SHEET 9 OF 13 AUGUSTA, MAINE JUNE 1959

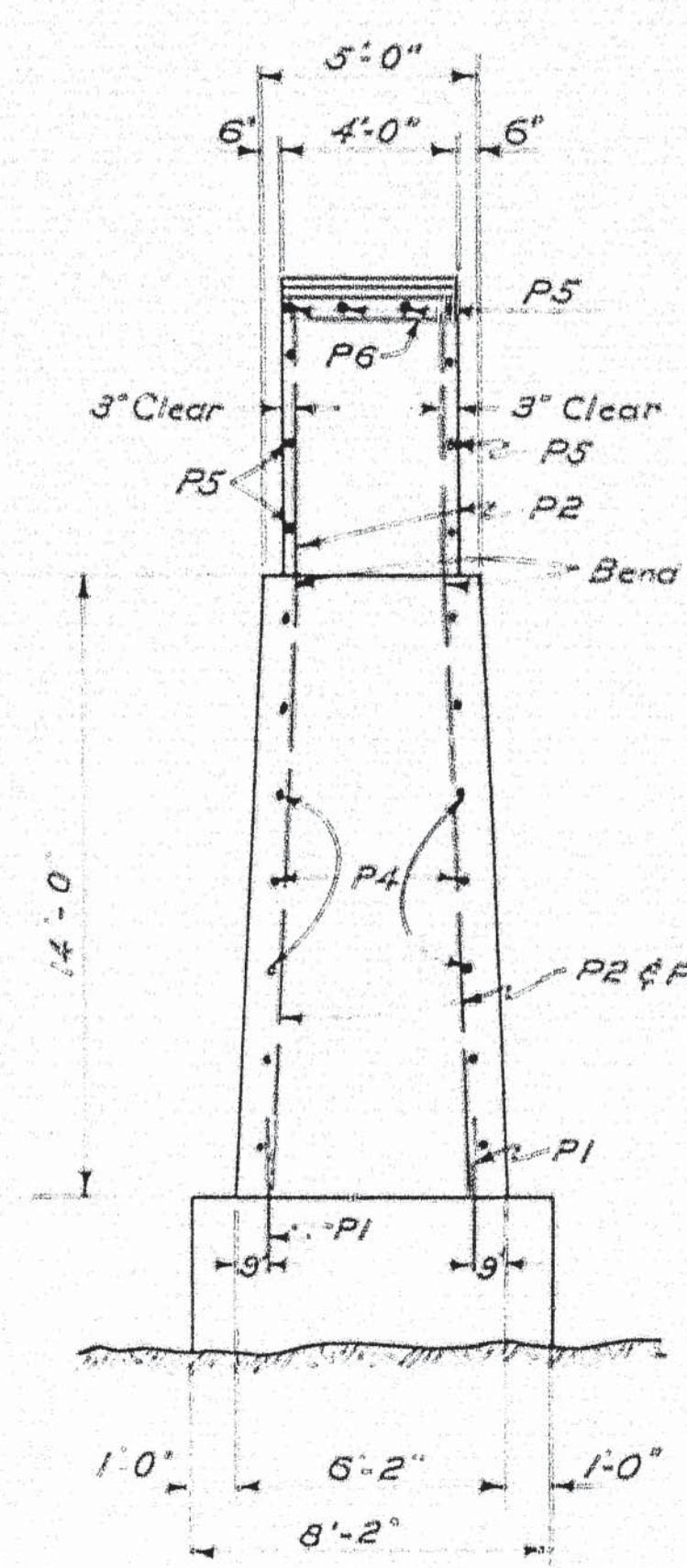
S. P. D. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



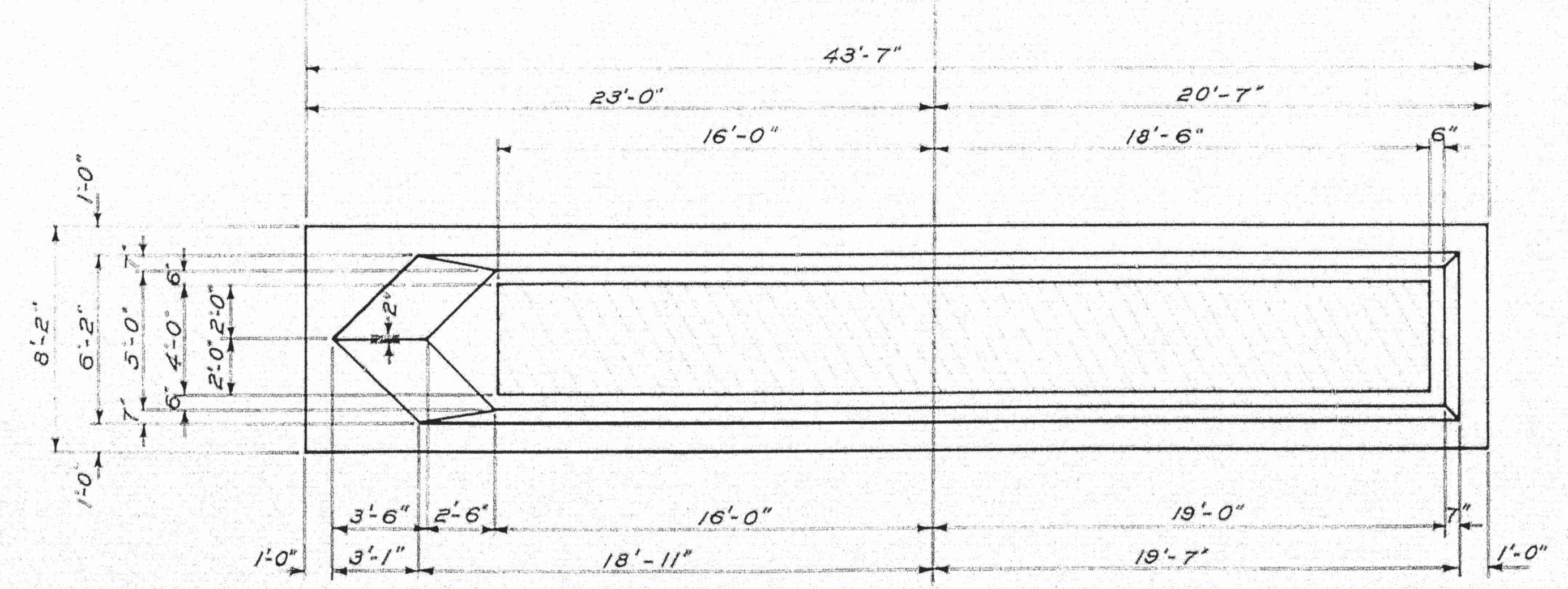
FRONT VIEW



PIER ELEVATION



REAR VIEW



SECTION A-A

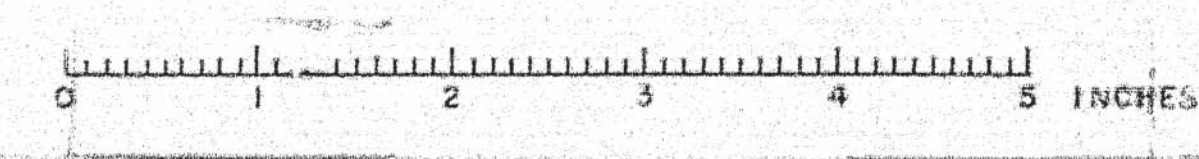
NOTE: Dress shaded areas to dimensions and exact elevations shown.
Use 1/4" Shim plates at Bearing areas of span #2, for plate detail see sheet #13

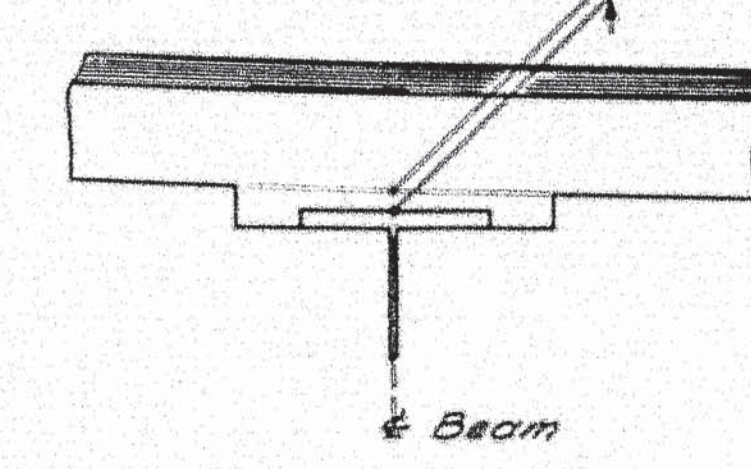
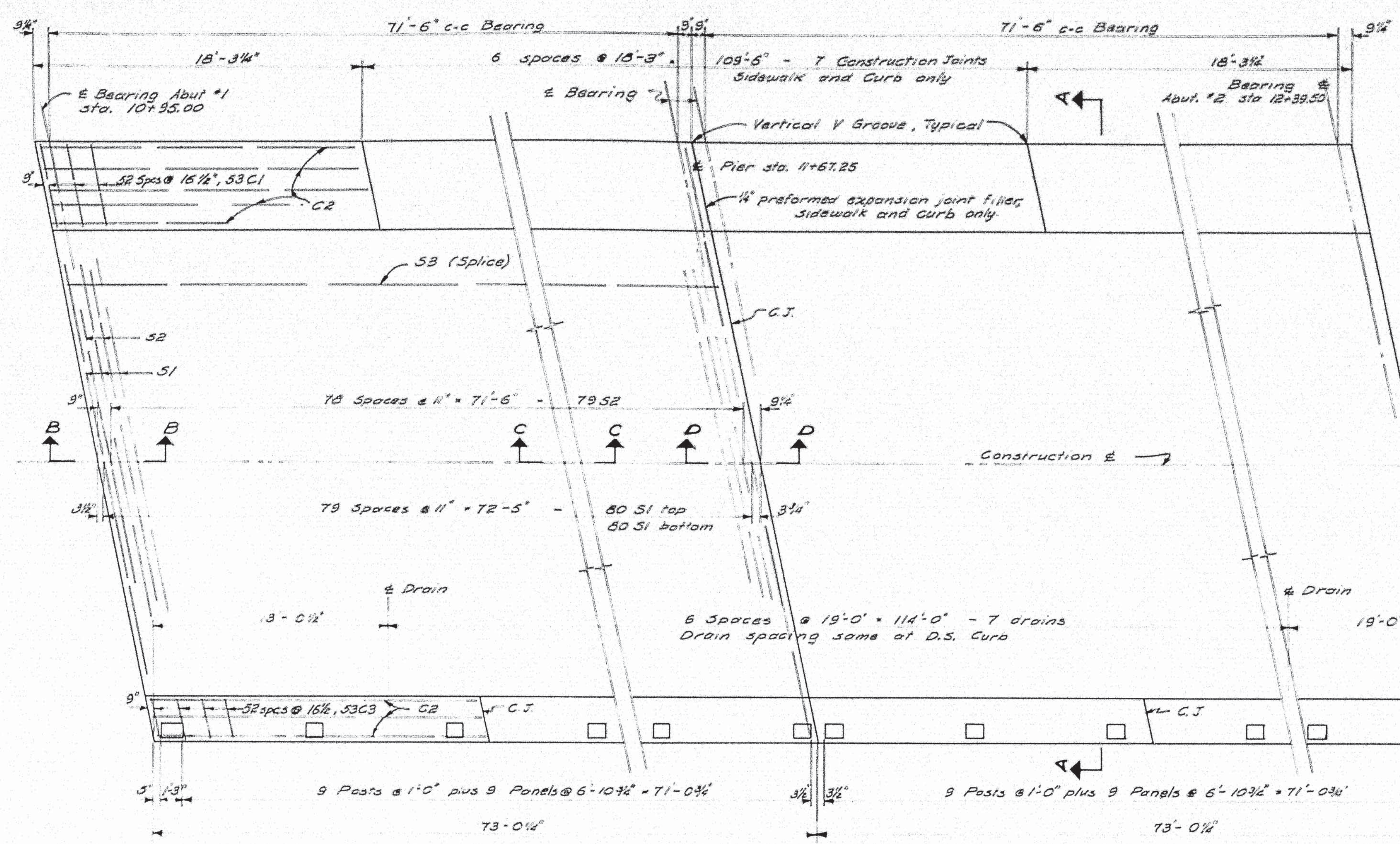
DESIGN - T. H. W.	BRIDGE NO. 5343
TRACE - H. SIMMONS	SUBJECT
CHECK - C. S. A.	FILE

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

GREAT WORKS BRIDGE
OVER
GREAT WORKS RIVER
IN THE TOWN OF
SOUTH BERWICK
YORK COUNTY

PIER
SHEET 10 OF 13 AUGUSTA, MAINE JUNE 1959





NOTE: In order to compensate for good load deflections and any irregularities in the rolling of steel, Elevations are given in the accompanying table, for the bottom of the roadway slab at the points shown, and must be set before any side forms are constructed.

BOTTOM OF SLAB ELEVATIONS-TABLE					
Points	Line a	Line b	Line c	Line d	Line e
SPAN #1					
± Bear. Abut. #1	51.02	51.19	51.36	51.28	51.14
1/4 Pt.	51.30	51.48	51.64	51.57	51.42
1/2 Pt.	51.54	51.72	51.89	51.81	51.67
3/4 Pt.	51.72	51.90	52.06	51.98	51.84
± Bear. Pier	51.85	52.02	52.19	52.11	51.97
SPAN #2					
± Bear. Pier	51.87	52.04	52.21	52.13	51.99
1/4 Pt.	52.15	52.32	52.50	52.41	52.27
1/2 Pt.	52.39	52.57	52.74	52.66	52.52
3/4 Pt.	52.57	52.74	52.91	52.83	52.69
± Bear. Abut. #2	52.70	52.87	53.04	52.96	52.82

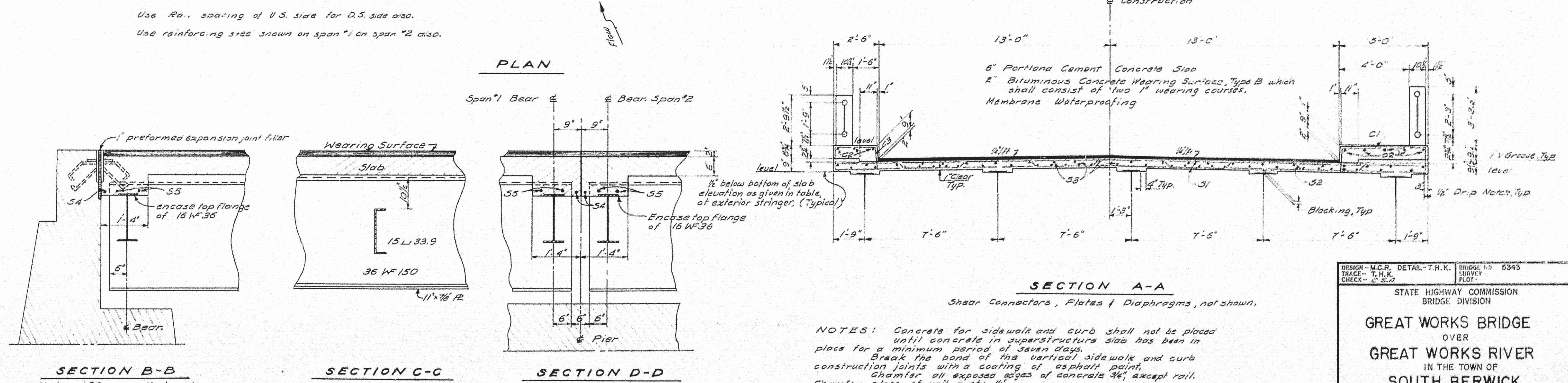
SPECIFICATIONS: A.A.S.H.O. Standard Specifications for Highway Bridges, 1957 and State of Maine Standard Specifications - Highways and Bridges, Revision of January, 1958.

LOADING: H20-44

f_c = 18,000 psi.
f_s = 1,200 psi - 17-10

CONCRETE CLASSIFICATION:

Abutments & Pier: Class B
Superstructure Slab, App. Sl.: Class A
Rail Posts: Class Y.



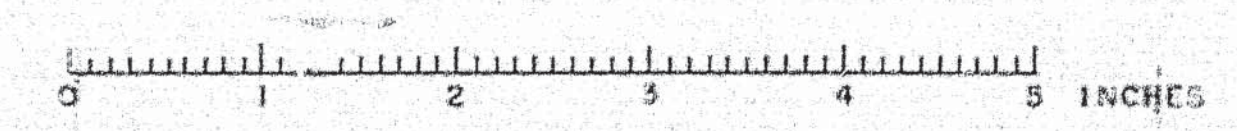
NOTES: Concrete for sidewalk and curb shall not be placed until concrete in superstructure slab has been in place for a minimum period of seven days. Break the bond of the vertical sidewalk and curb construction joints with a coating of asphalt paint. Chamfer all exposed edges of concrete 3/4", except rail. Chamfer edges of rail posts 1/2". During the 7 day period form work may be placed but hand equipment only shall be allowed on the slab.

DESIGN - M.C.R. DETAIL - T.H.K. BRIDGE NO. 5343
TRACE - T.H.K. SURVEY
CHECK - C.S.H. PLOT

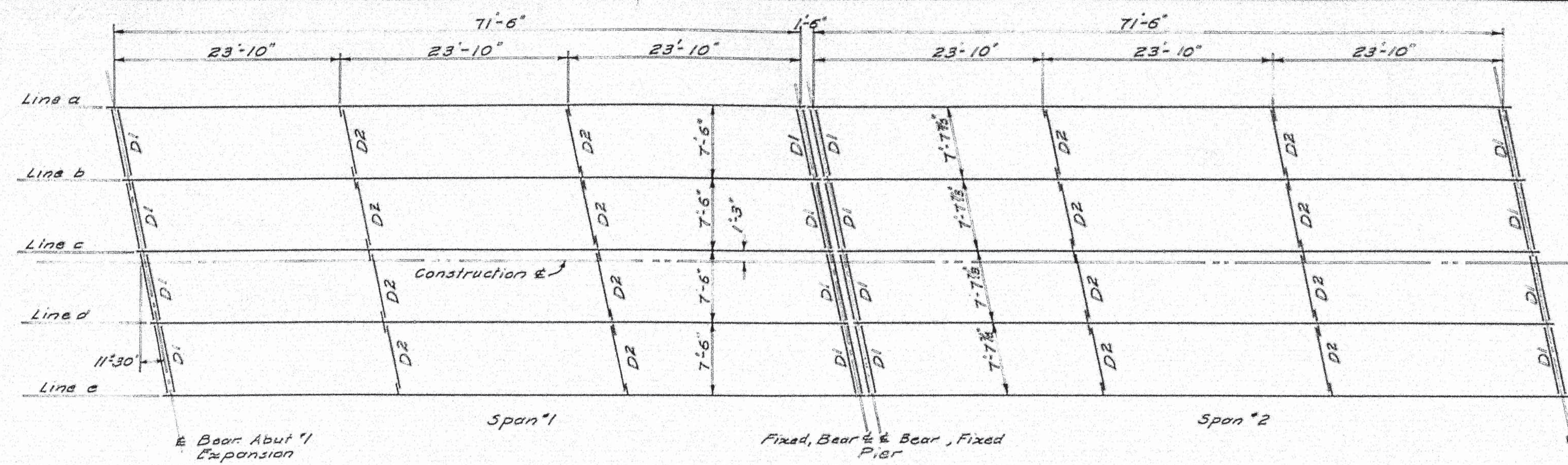
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

GREAT WORKS BRIDGE
OVER
GREAT WORKS RIVER
IN THE TOWN OF
SOUTH BERWICK
YORK COUNTY
SUPERSTRUCTURE

SHEET 11 OF 13 AUGUSTA, MAINE JUNE 1959

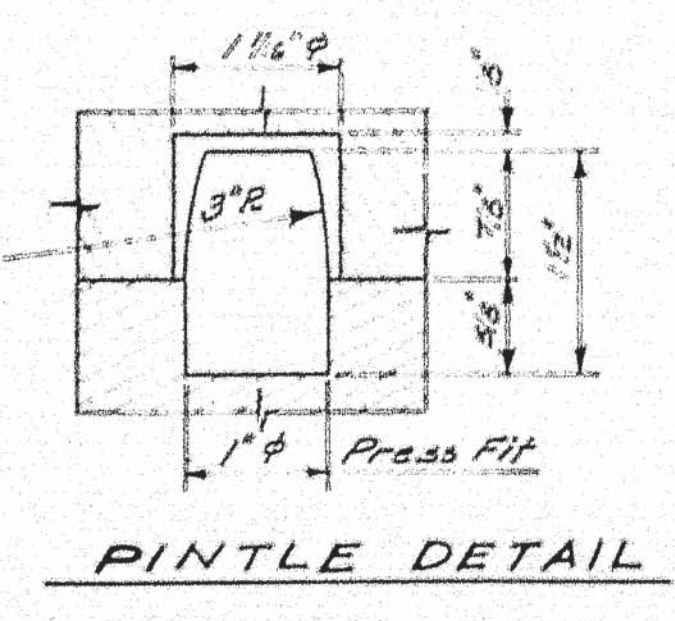
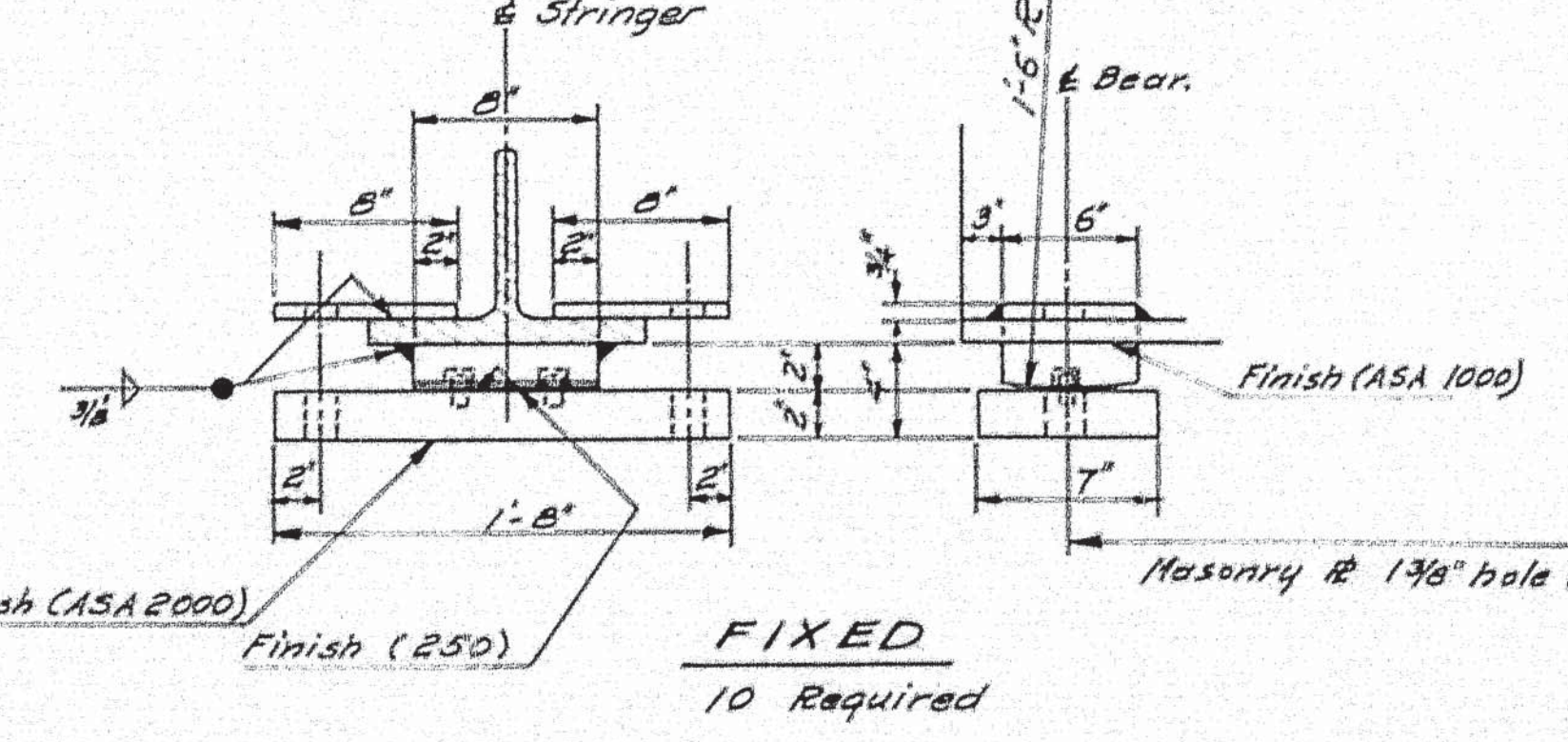
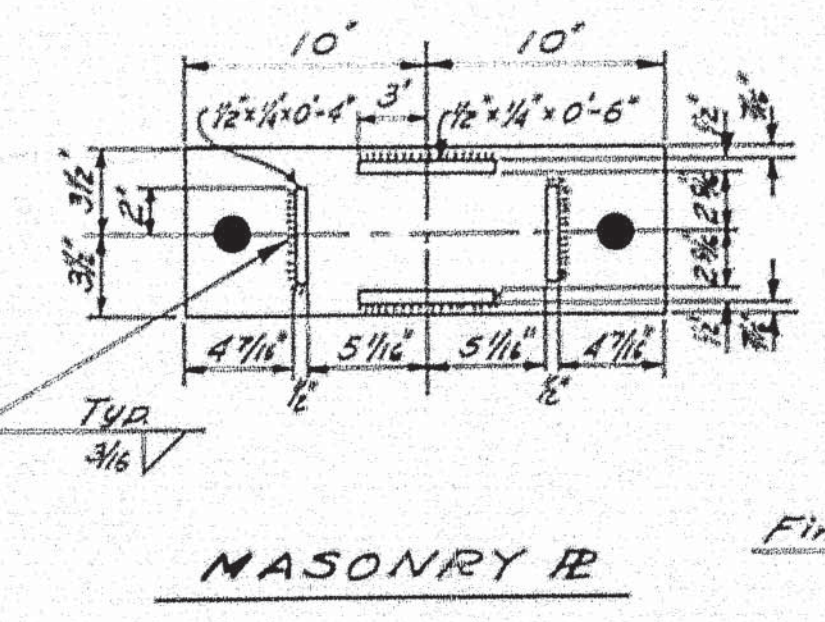
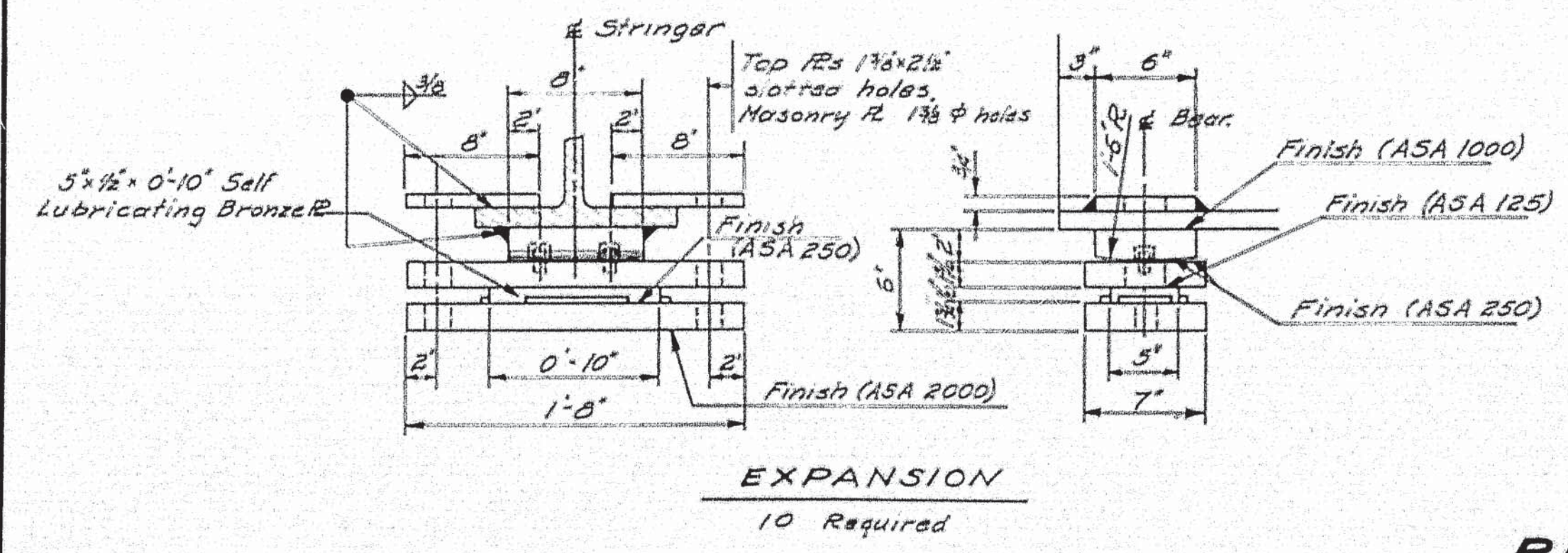
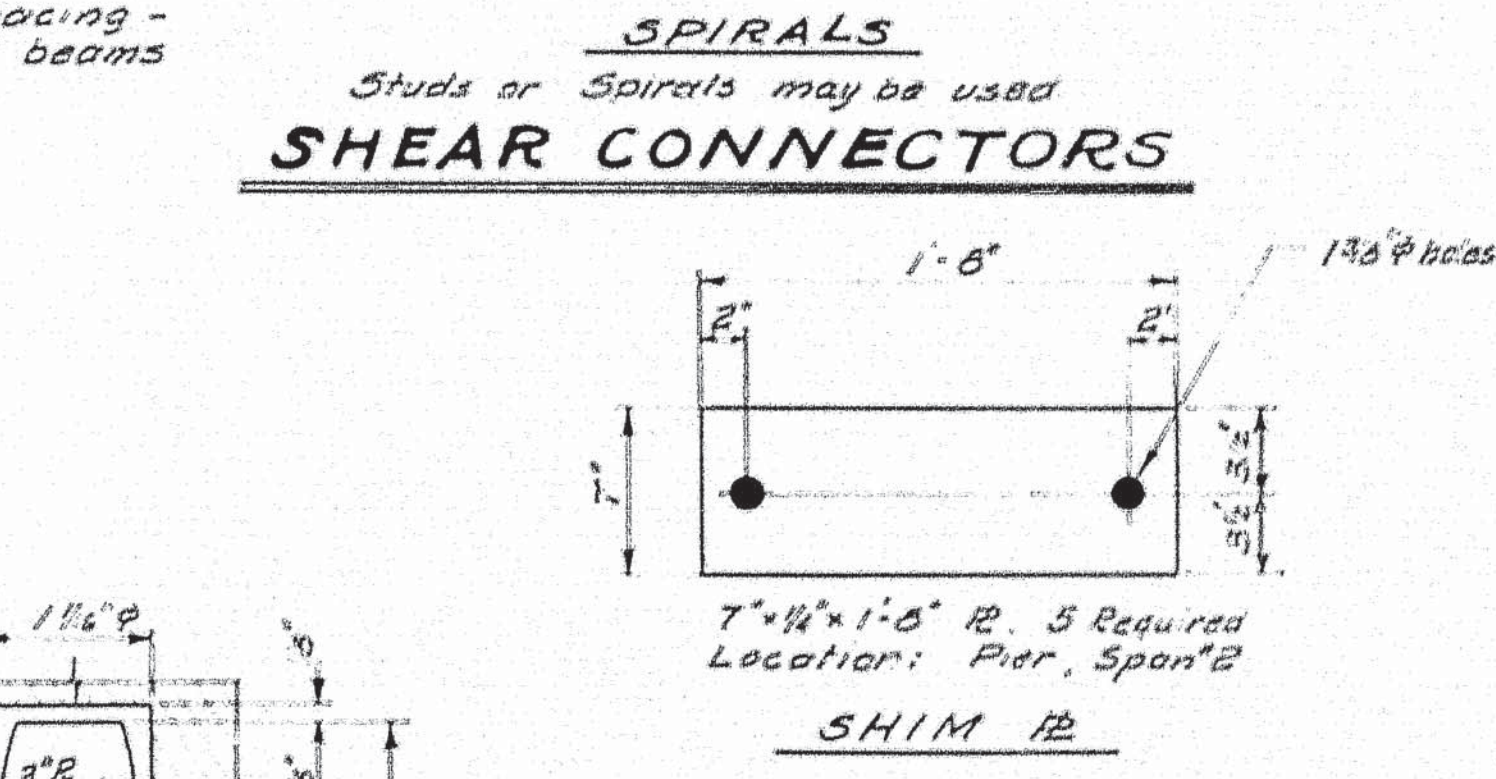
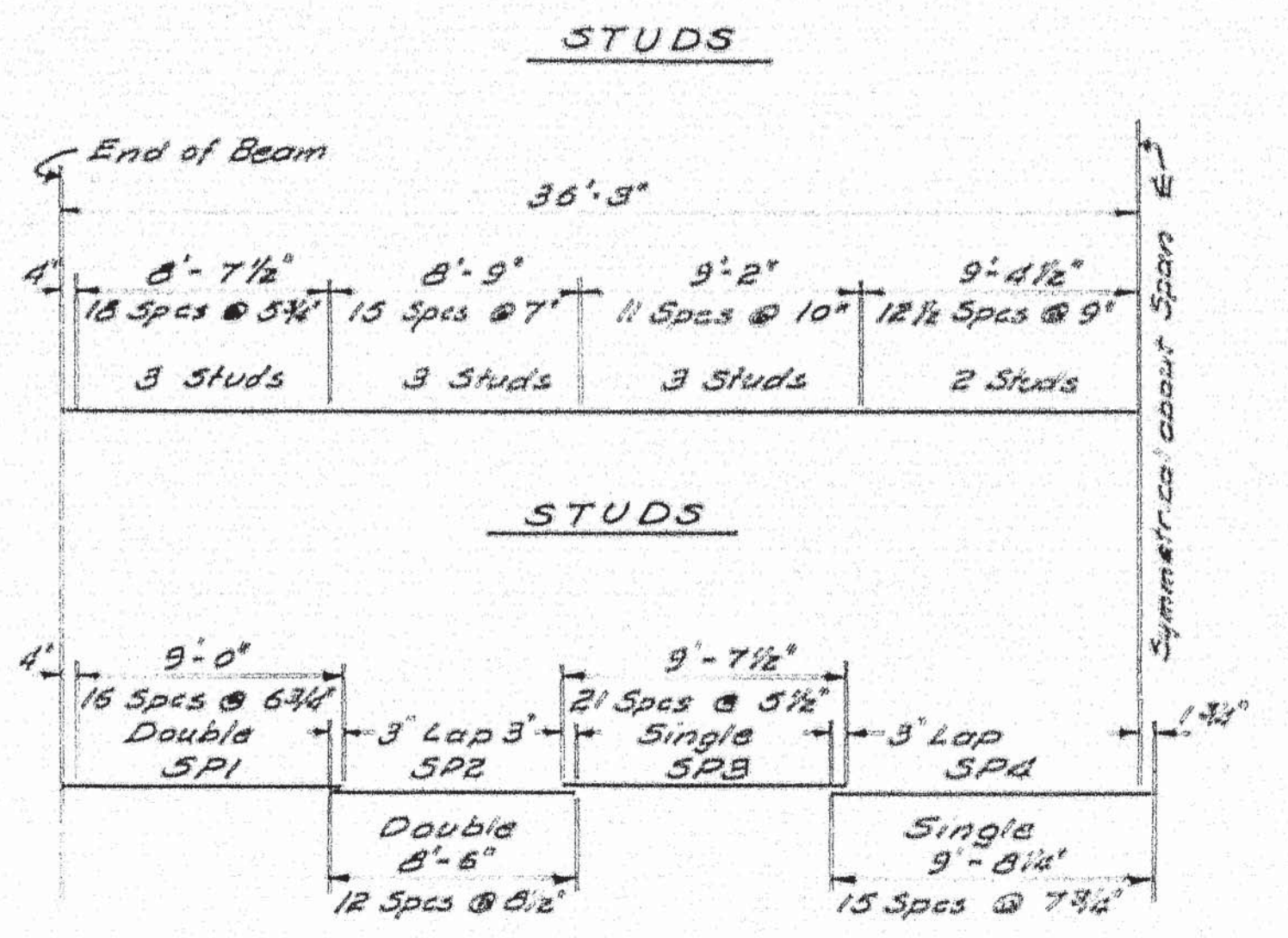
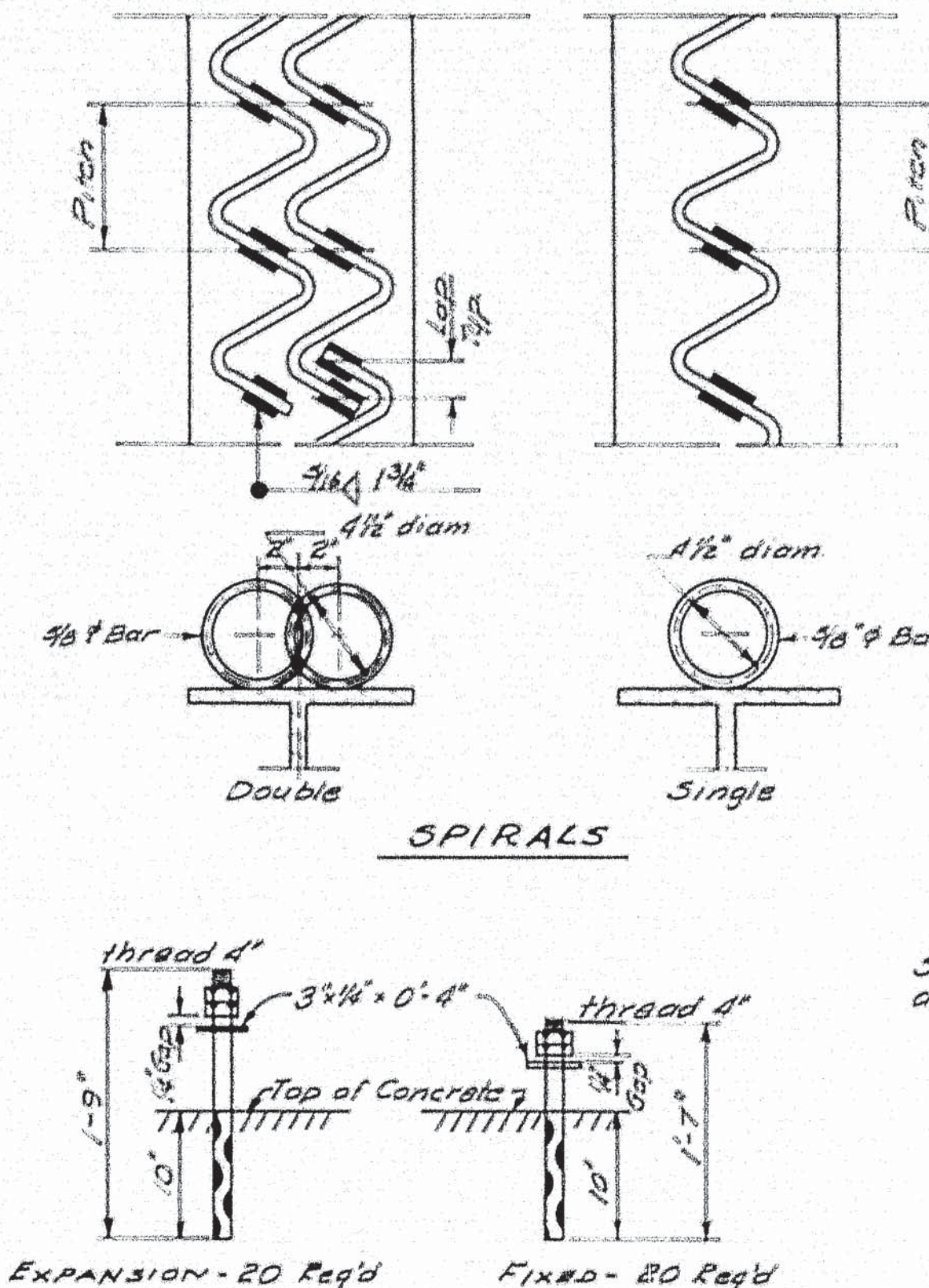
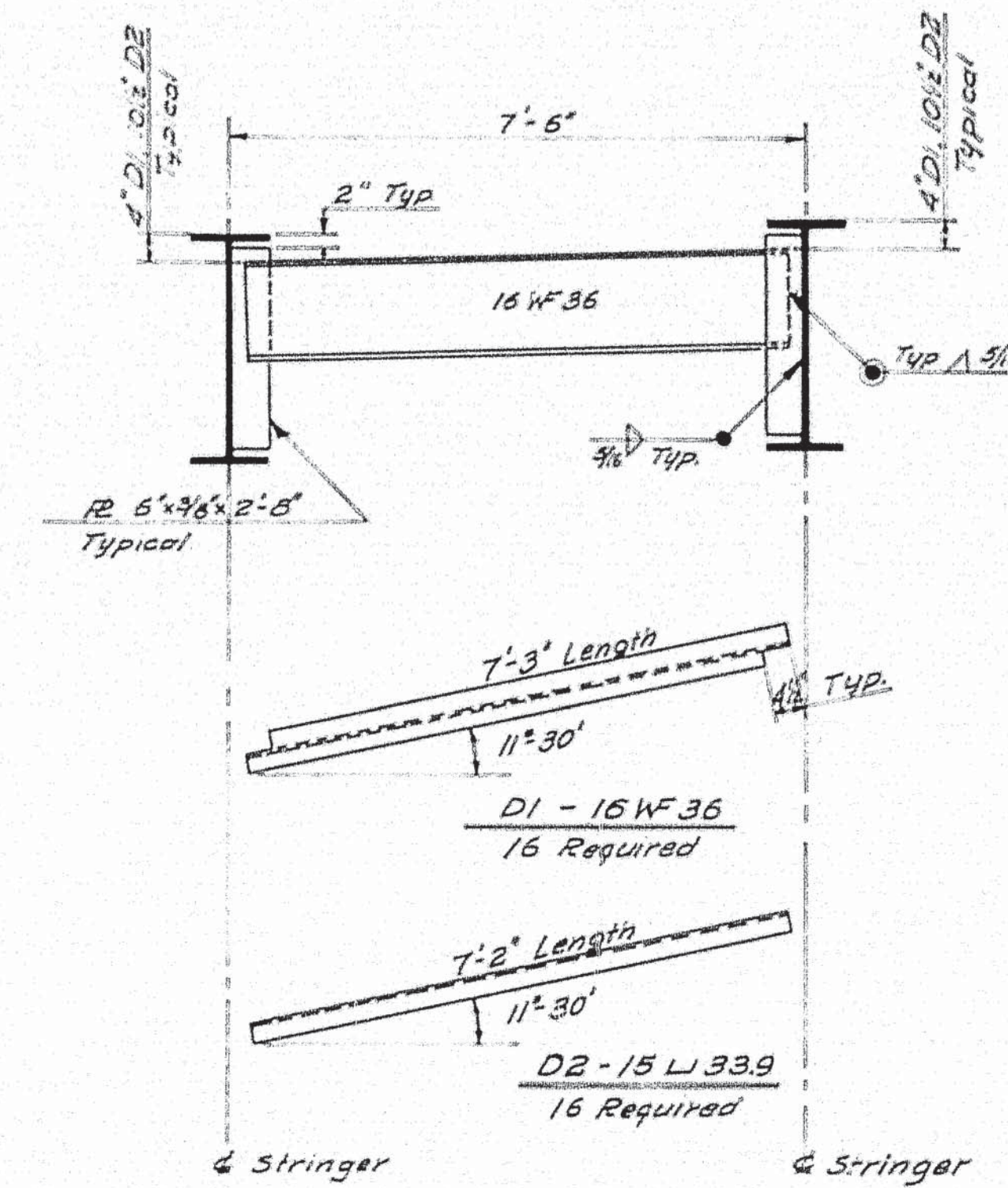
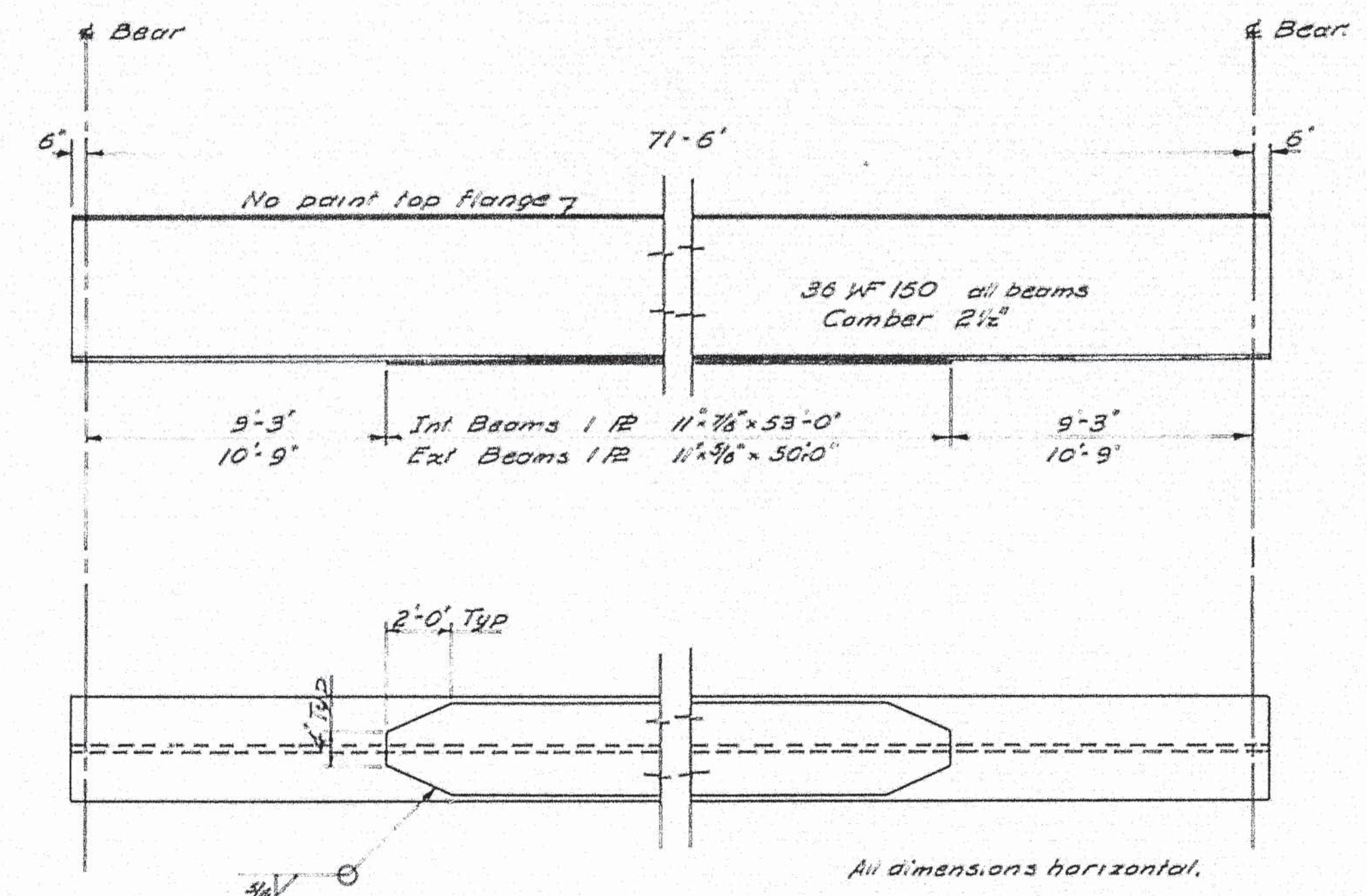
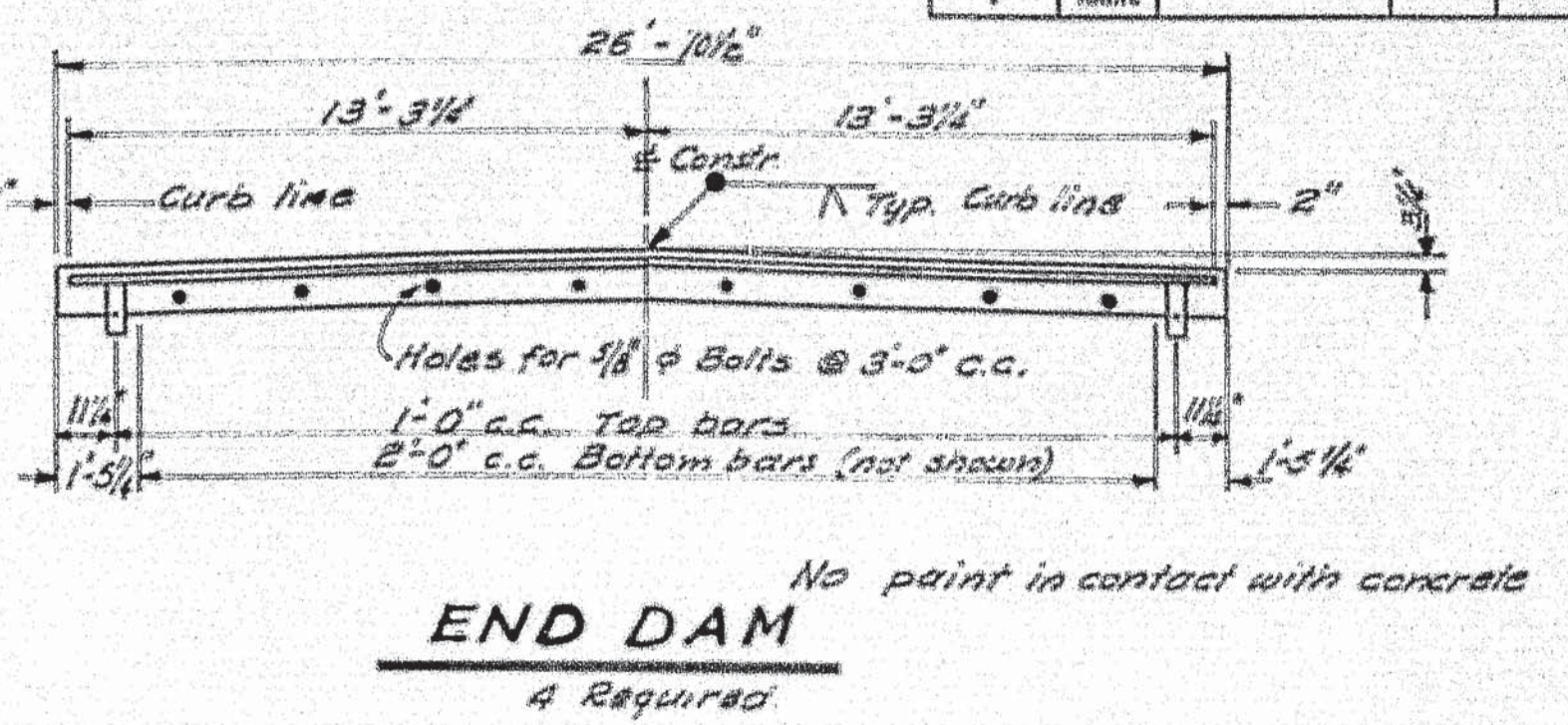
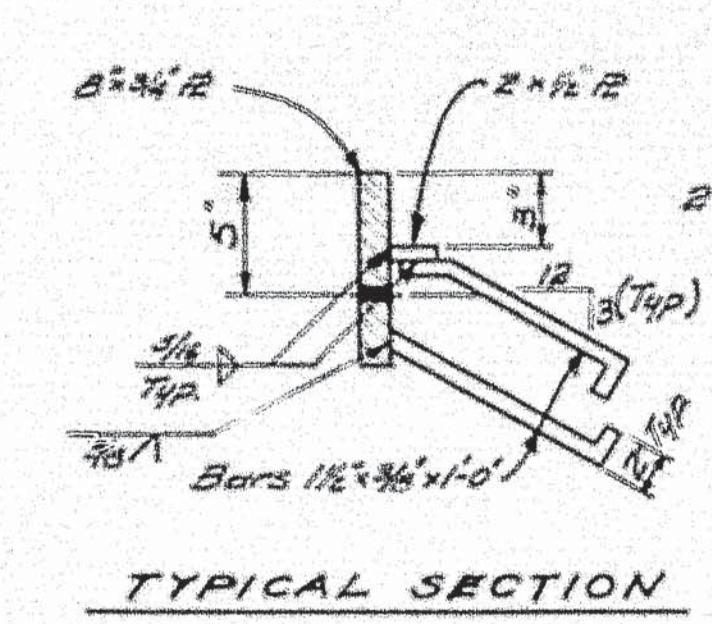


B.P.R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



NOTE: Steel for beams & cover plates shall be Structural Weldable Steel A.S.T.M. Designation A 373. All other steel may be either Steel for Bridges and Buildings A.S.T.M. Designation A 7 or Structural Weldable Steel A.S.T.M. Designation A 373.

For drain details see sheet #12.

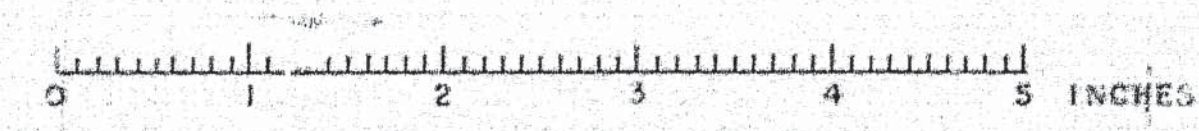


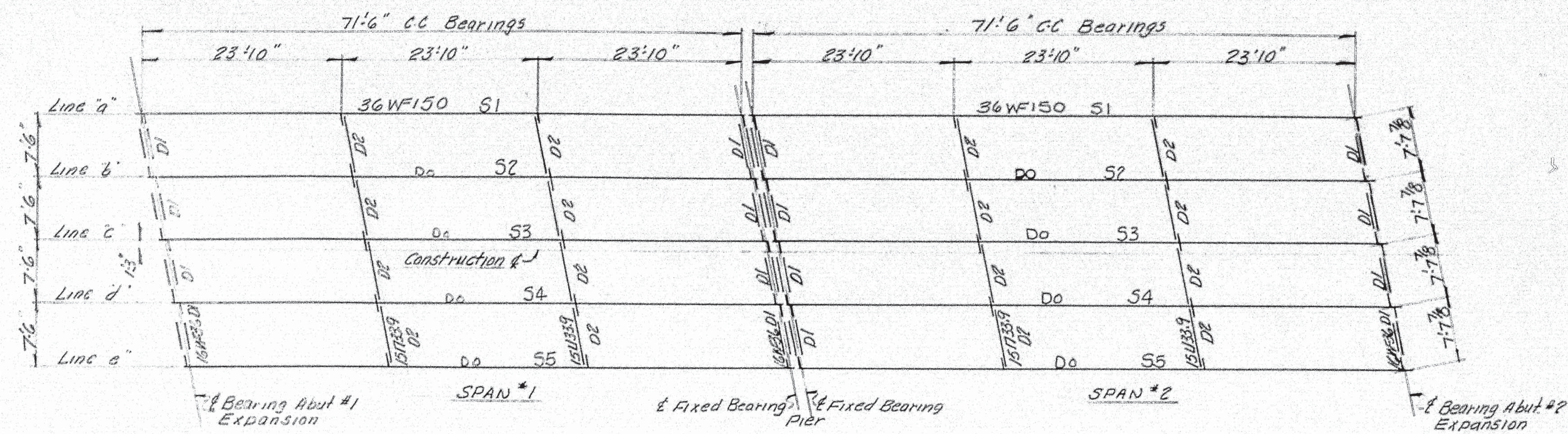
DESIGN - M.O.R. DETAIL - T.H.K. BRIDGE NO 5343
TRACE - T.H.K. SURVEY PLOT -
CHECK - S.B.H.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

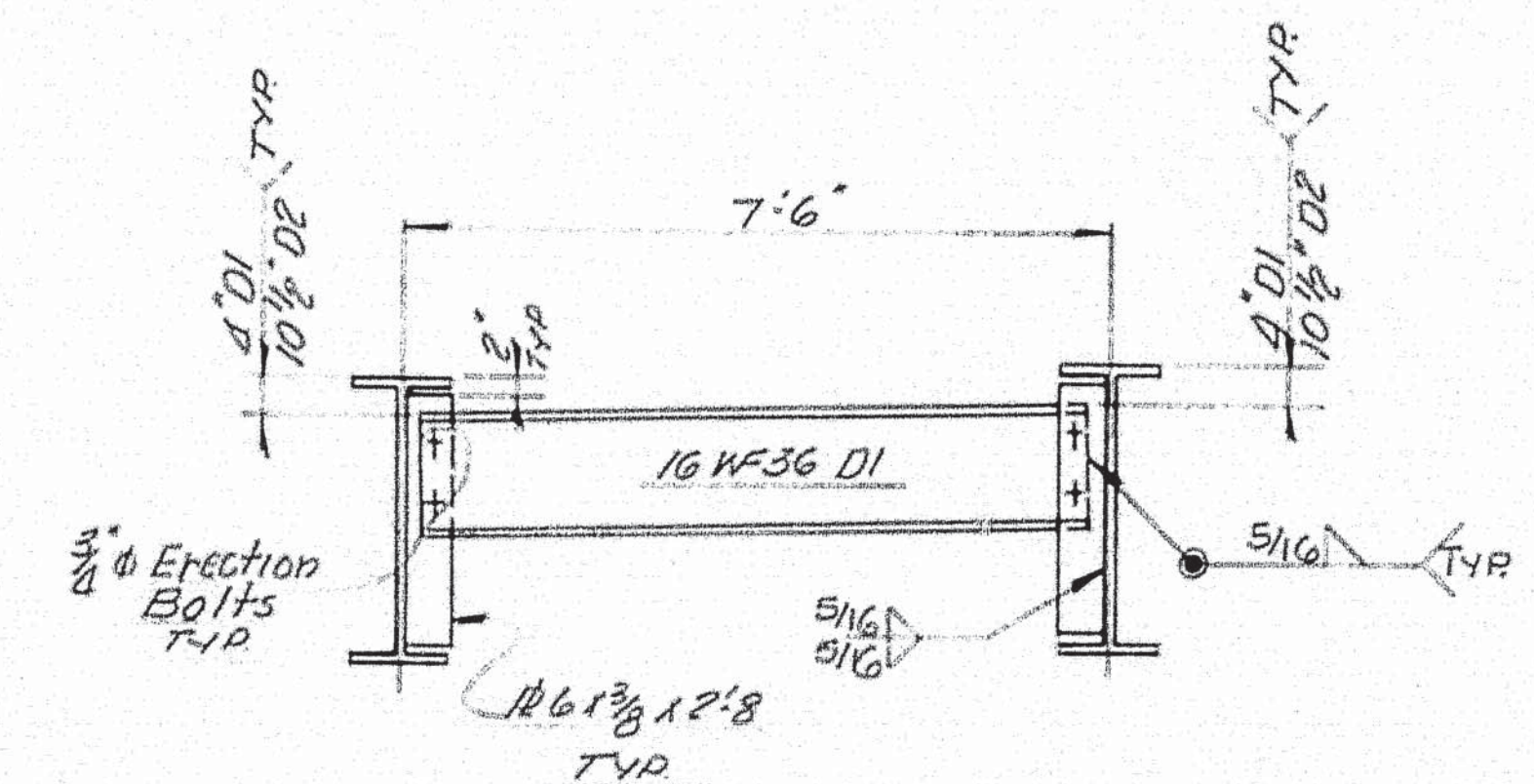
GREAT WORKS BRIDGE
OVER
GREAT WORKS RIVER
IN THE TOWN OF
SOUTH BERWICK
YORK COUNTY
STRUCTURAL STEEL

SHEET 13 OF 13 AUGUSTA, MAINE JUNE 1959





ERECTION DIAGRAM



TYPICAL DIAPHRAGM DETAIL

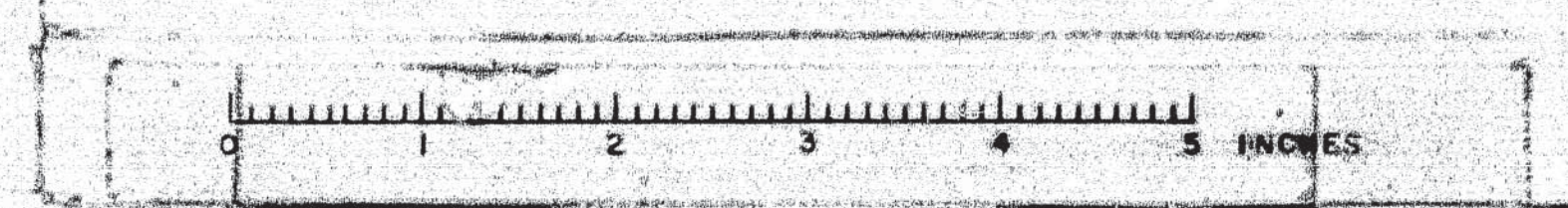
NOTES: Steel for Beams & Cover plates shall be Structural Weldable Steel A.S.T.M. Designation A-373. All other steel may be either ASTM Designation A-373 or A-7.

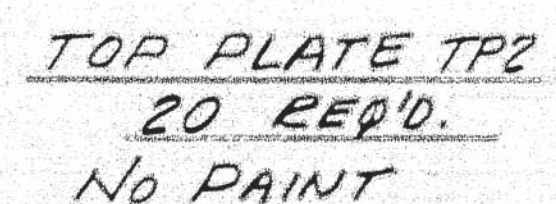
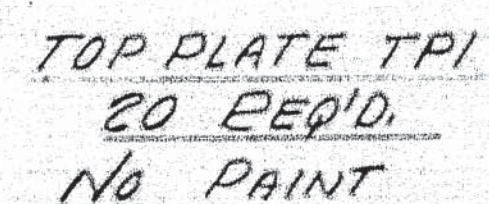
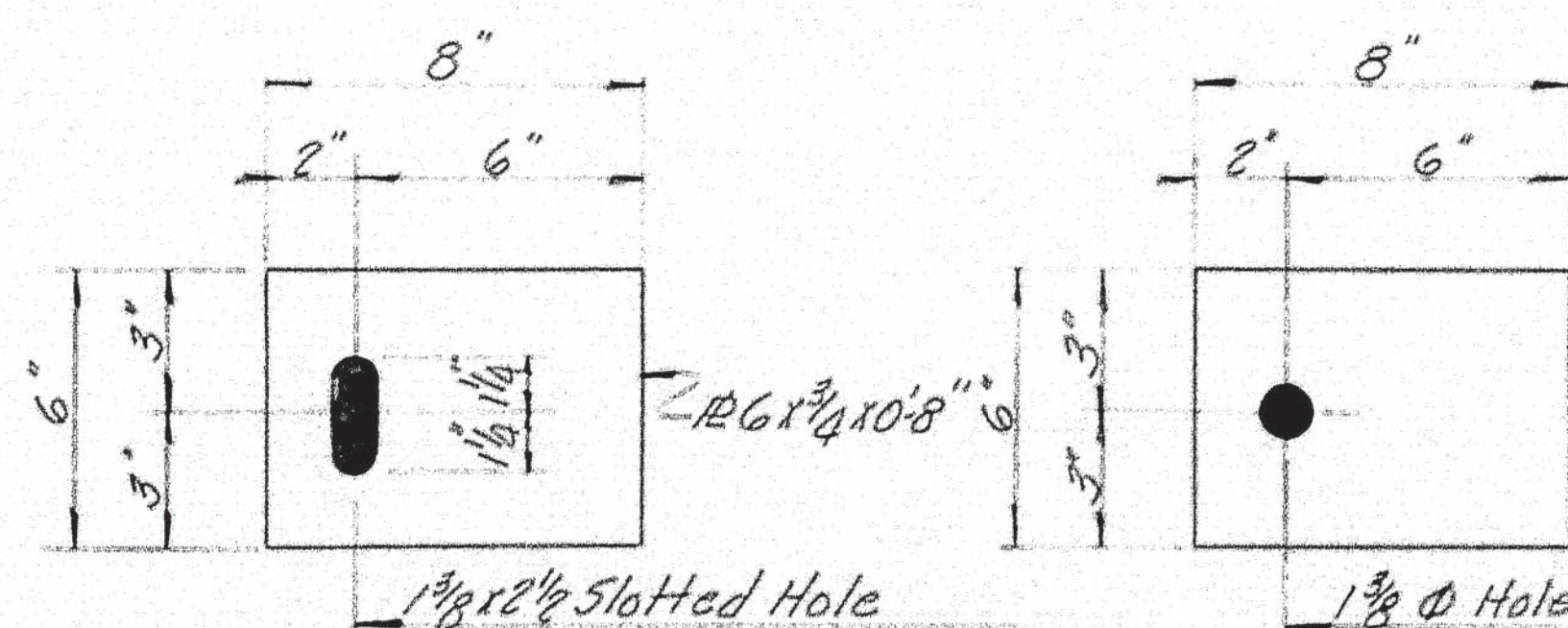
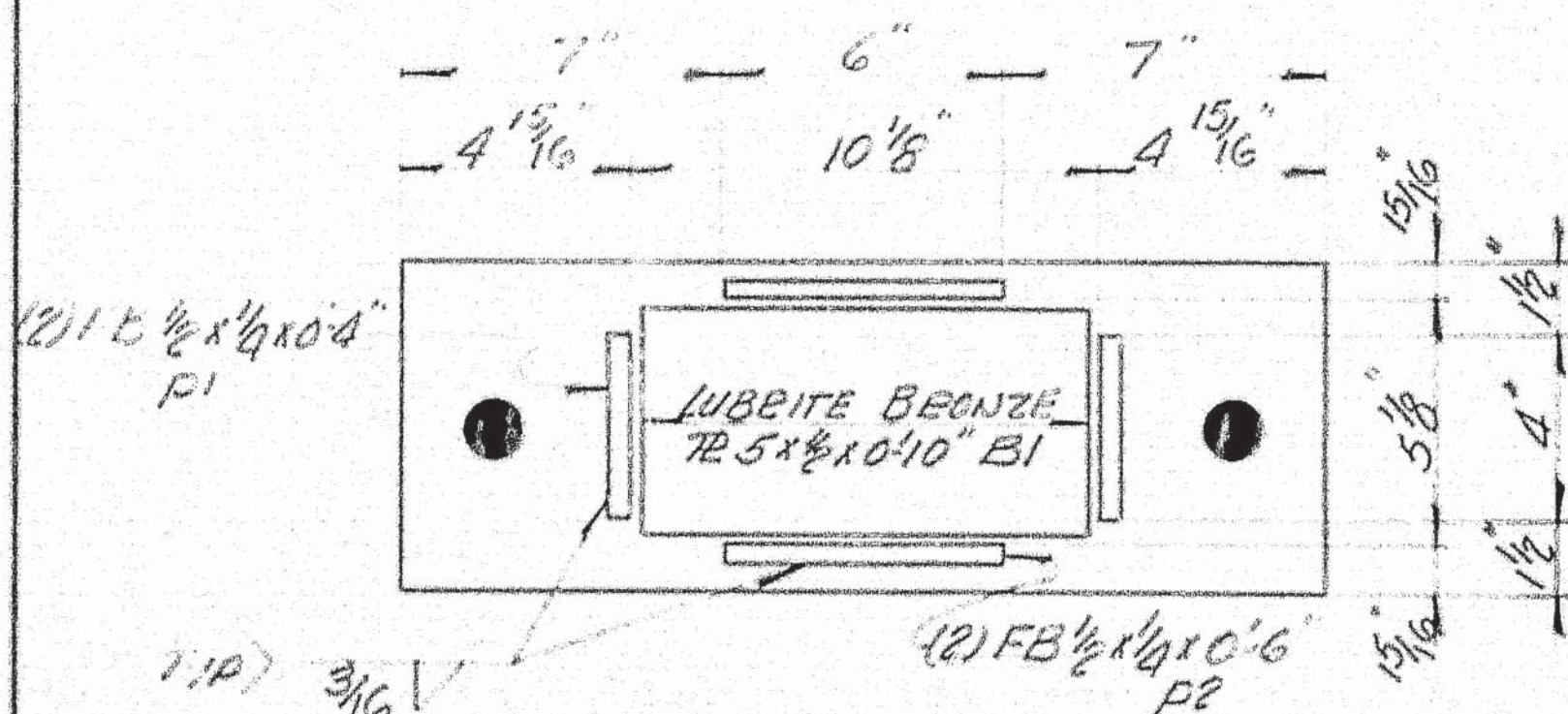
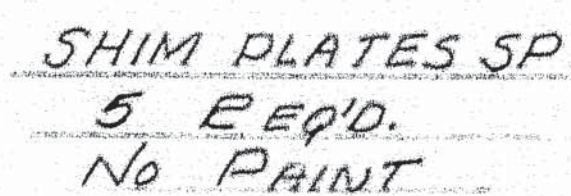
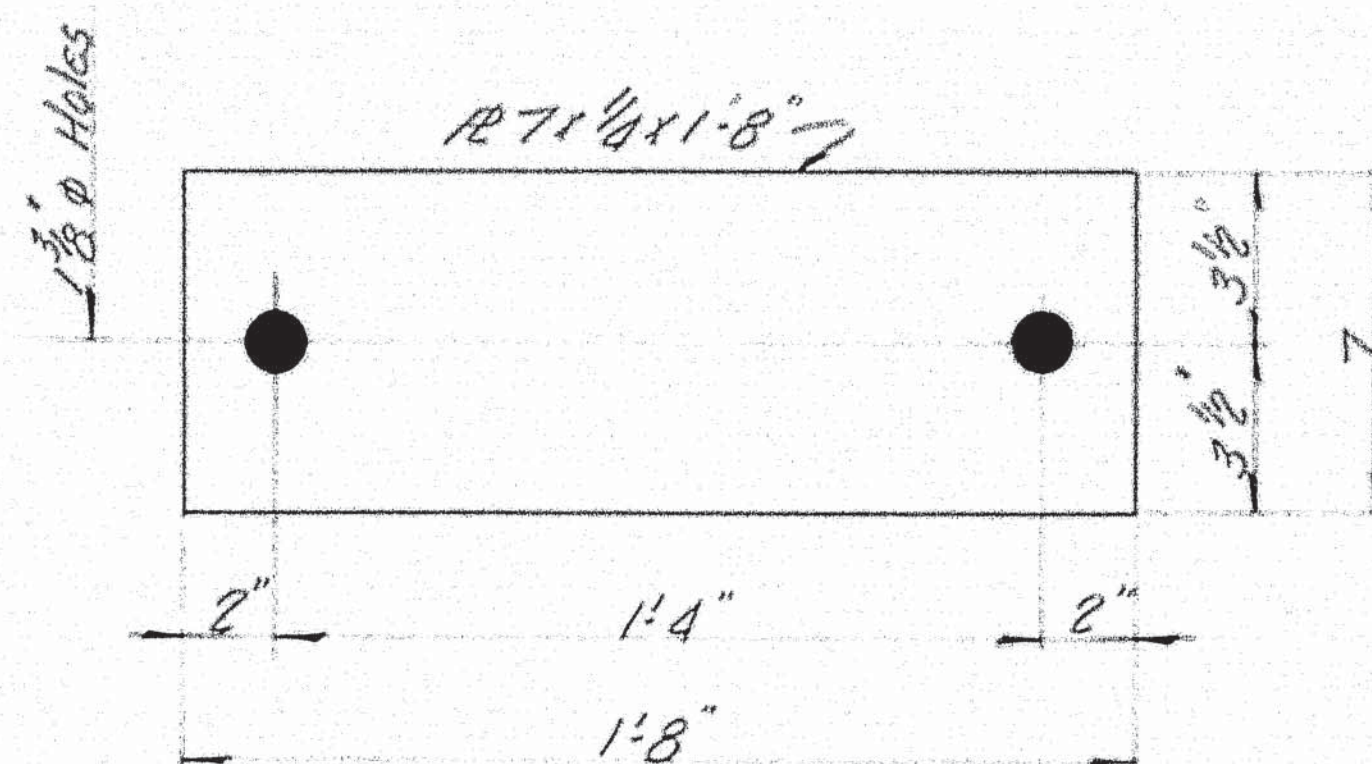
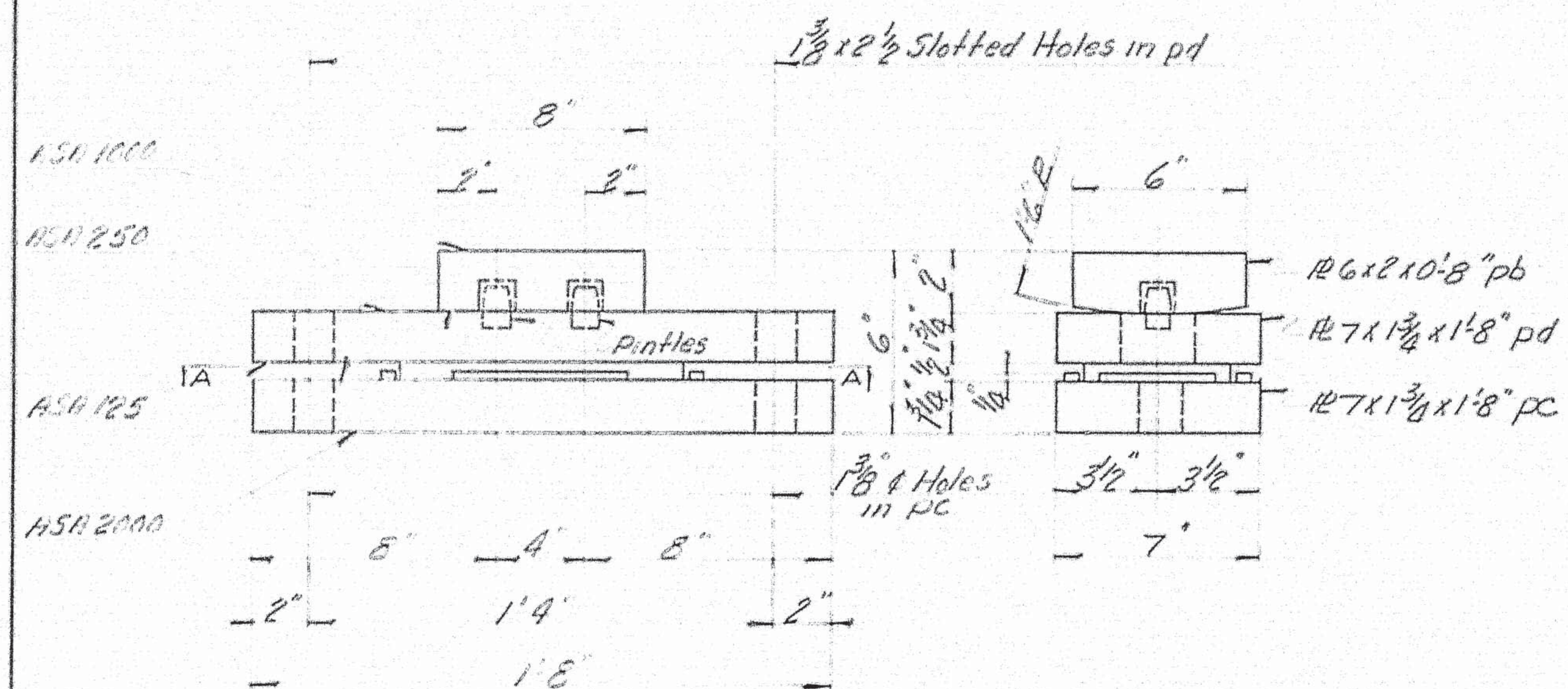
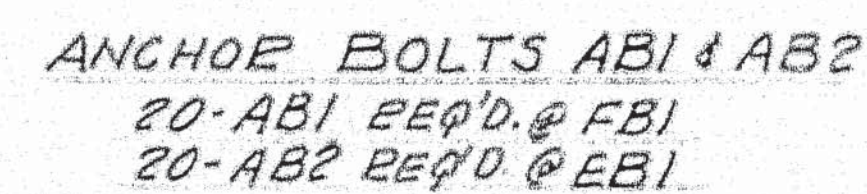
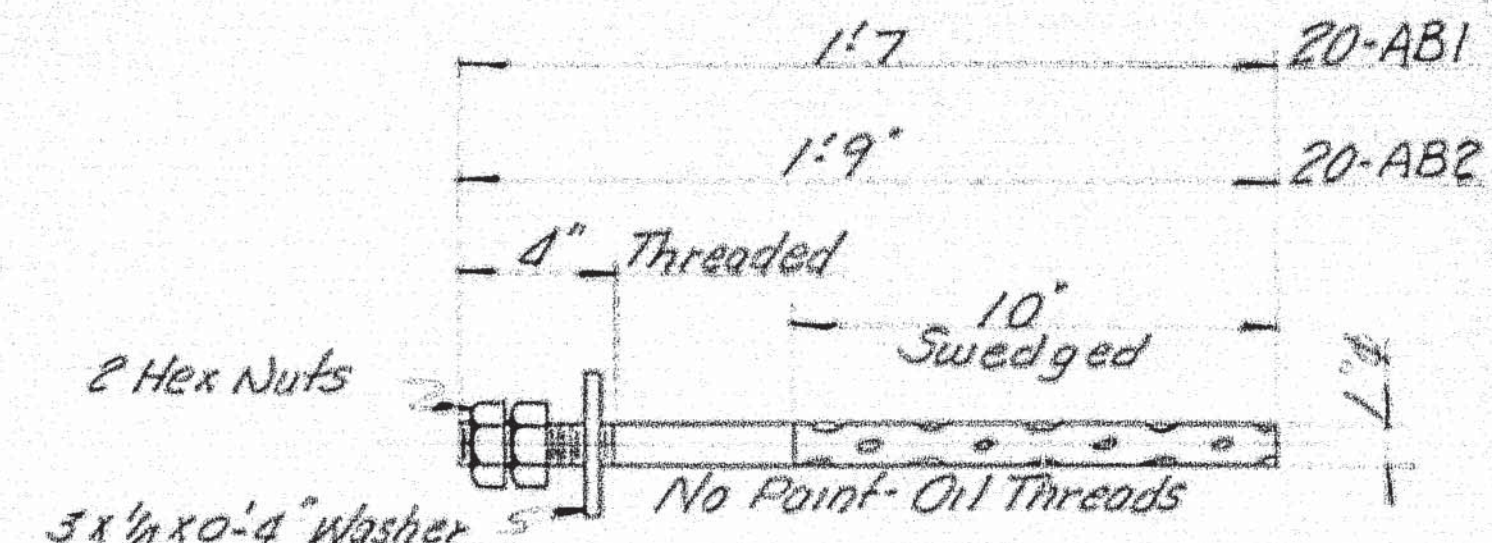
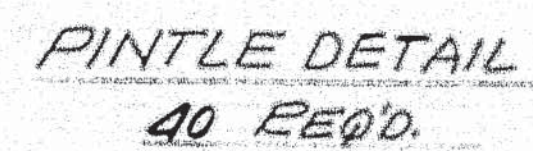
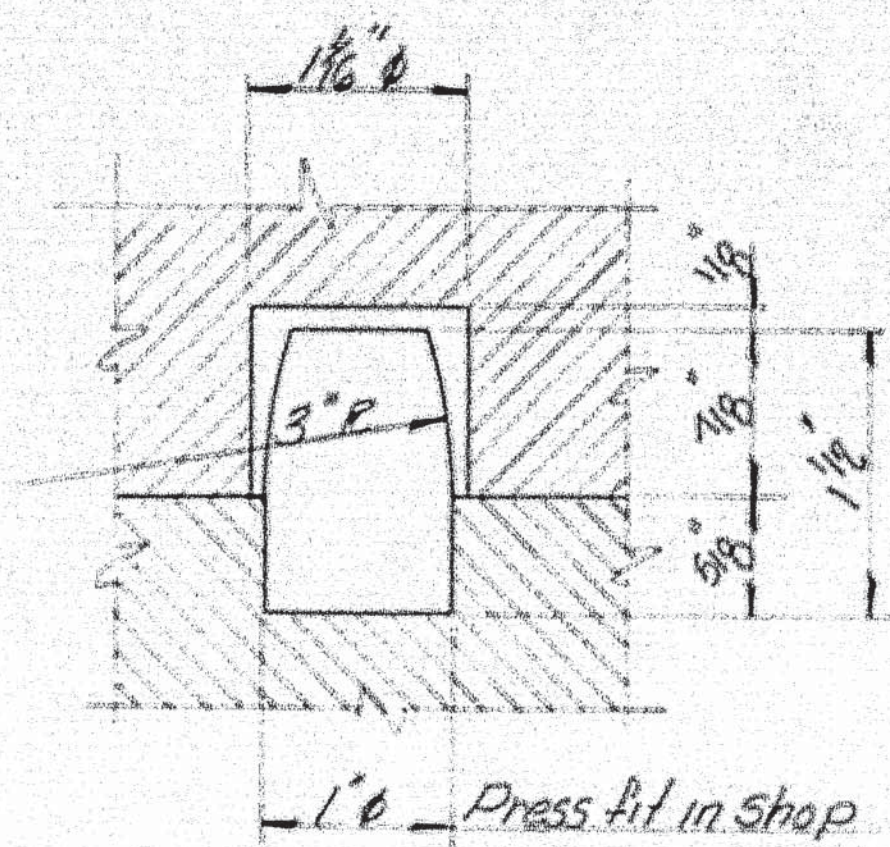
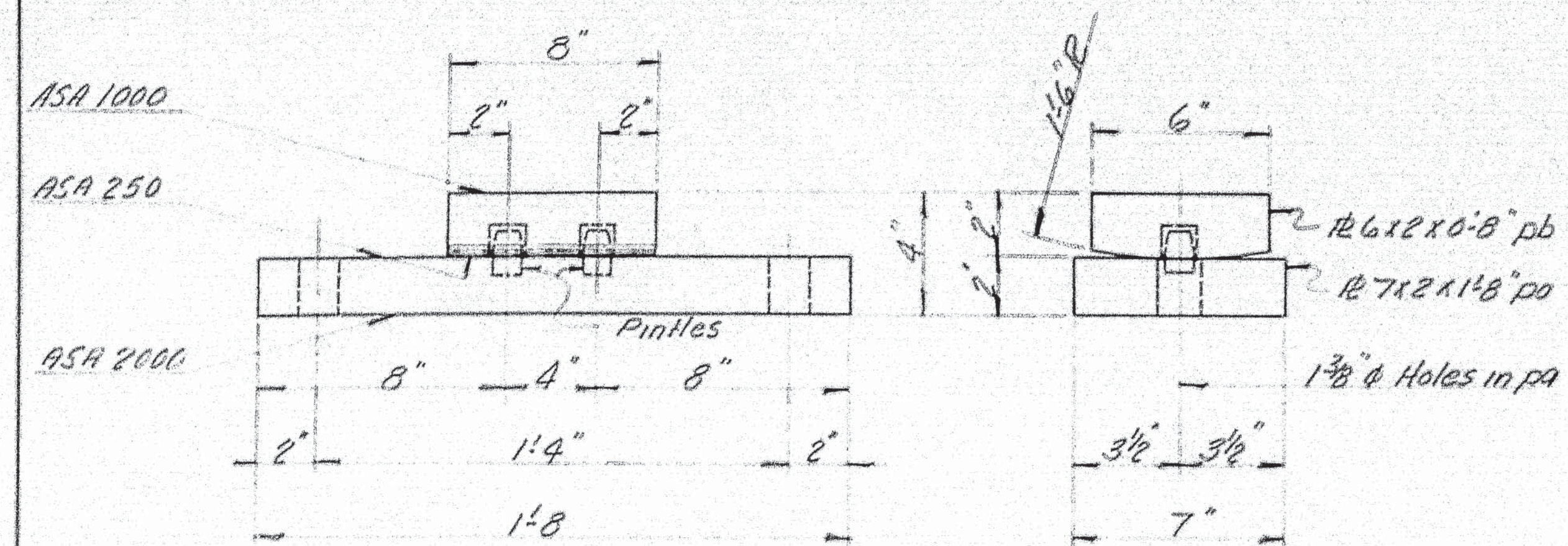
PAINT: Per State of Maine Specs. & as noted.

ERECTION PLAN	
Bancroft & Martin Rolling Mills Company South Portland 7, Maine	
GREAT WORKS BRIDGE SOUTH BEEWICK MAINE	
CUSTOMER C.H. GOODRICH DESIGNER MAINE S.H.G. BRIDGE DIV.	
ORDER NO. VERBAL	DWG. NO. 9-253-E1

DRAWN	10/359	4/11
REVISION		
REVISION		
REVISION		

79-86A





NOTE:

- 1- Coat surfaces finished A5A-250 on pa, pb, & pd with white lead & tallow.
- 2- Top side of pb, & bottom side of pa & pc to be free of paint.
- 3- Top plates & Bearings to be field welded to stringers.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded & Bolted
HOLES: As Noted
PAINT: Per State of Maine Spec &
as noted.

BEARING DETAILS

Brancroft & Marden Rolling Mills Company
South Portland 7, Maine

GREAT WORKS BRIDGE
SOUTH BERRICK, MAINE

CUSTOMER C.H. GOODFICH
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. <u>VERBAL</u>	DWG. NO. <u>9-253-S1</u>
-------------------------	--------------------------

79-86 E

