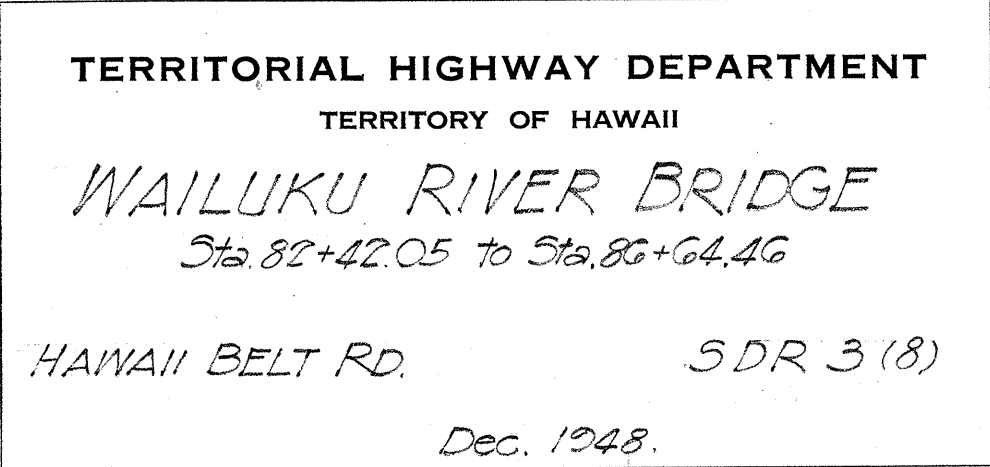
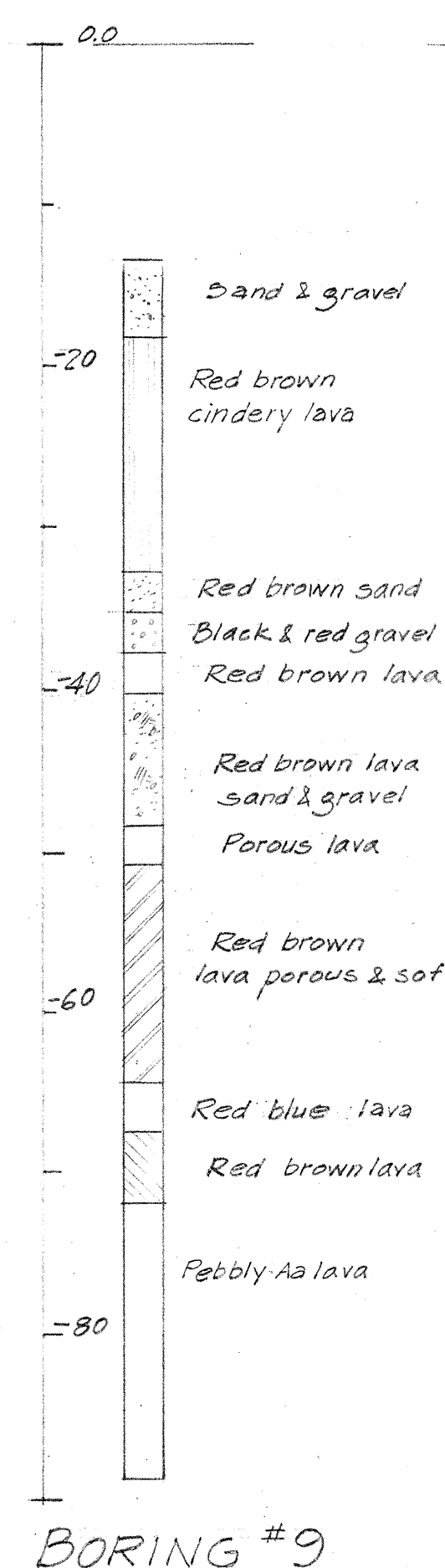






BORING #9



BORING #11



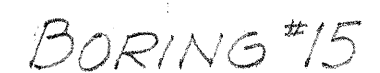
BORING #12



BORING #13



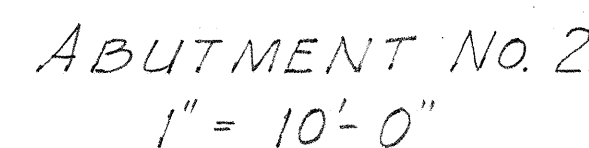
BORING #14



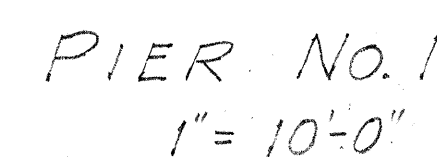
BORING #15



BORING #16



ABUTMENT NO. 2
1" = 10'-0"



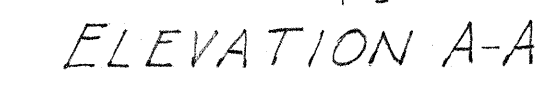
PIER No. 1
1" = 10'-0"

18 - 30'	Piles =	540	Lin. ft.
70 - 40'	=	2800	
12 - 60'	=	720	
Total		4060	Lin. ft.

18 - 30'	Piles =	540	Lin. ft.
70 - 40'	=	2800	
12 - 60'	=	720	
Total		4060	Lin. ft.



SECTION OF PILE



ELEVATION A-A



ELEVATION SECTION C

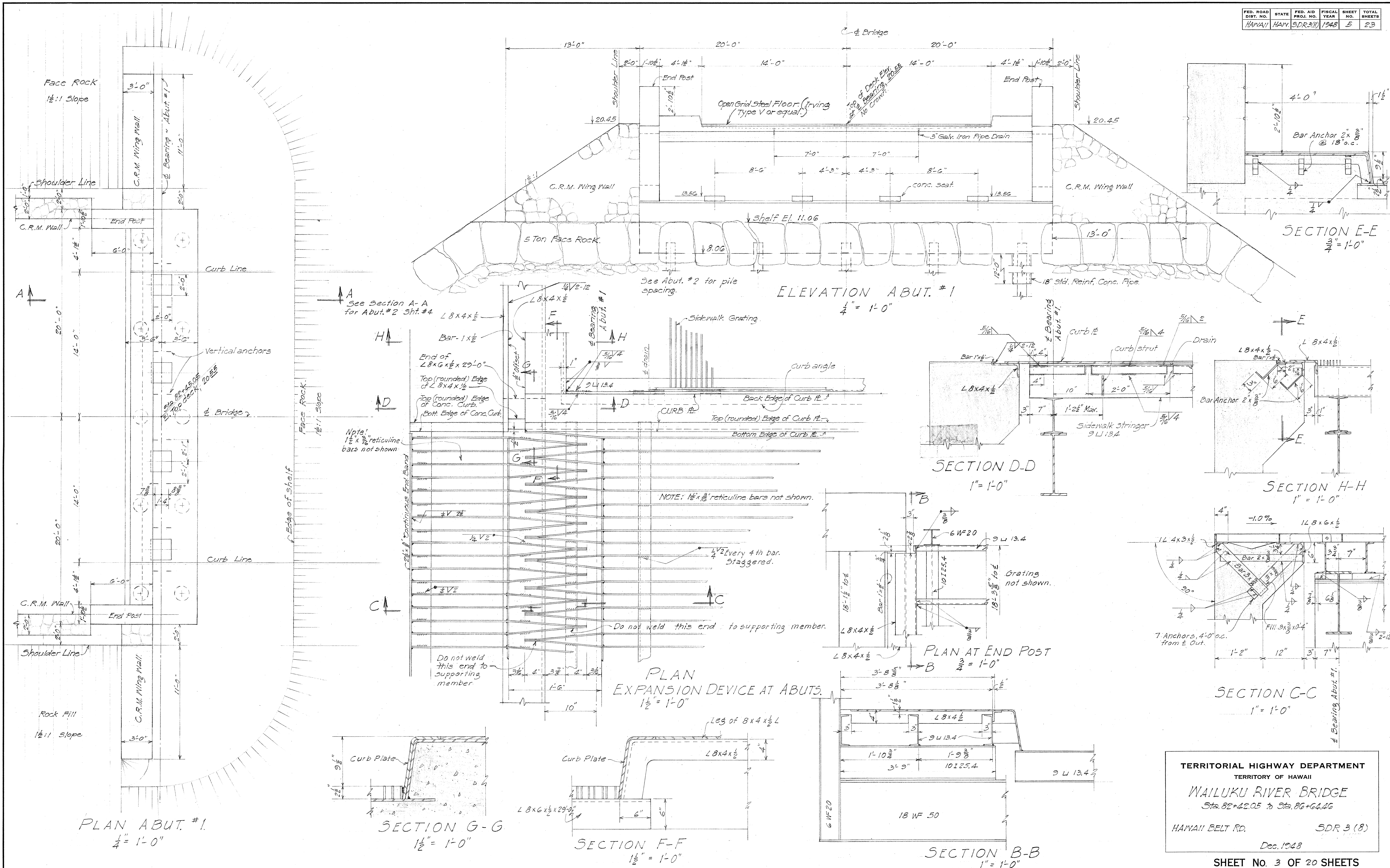


-C	HAWAII BELT RD.	SDR 3(8)
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SHEET No. 2 OF 20 SHEETS

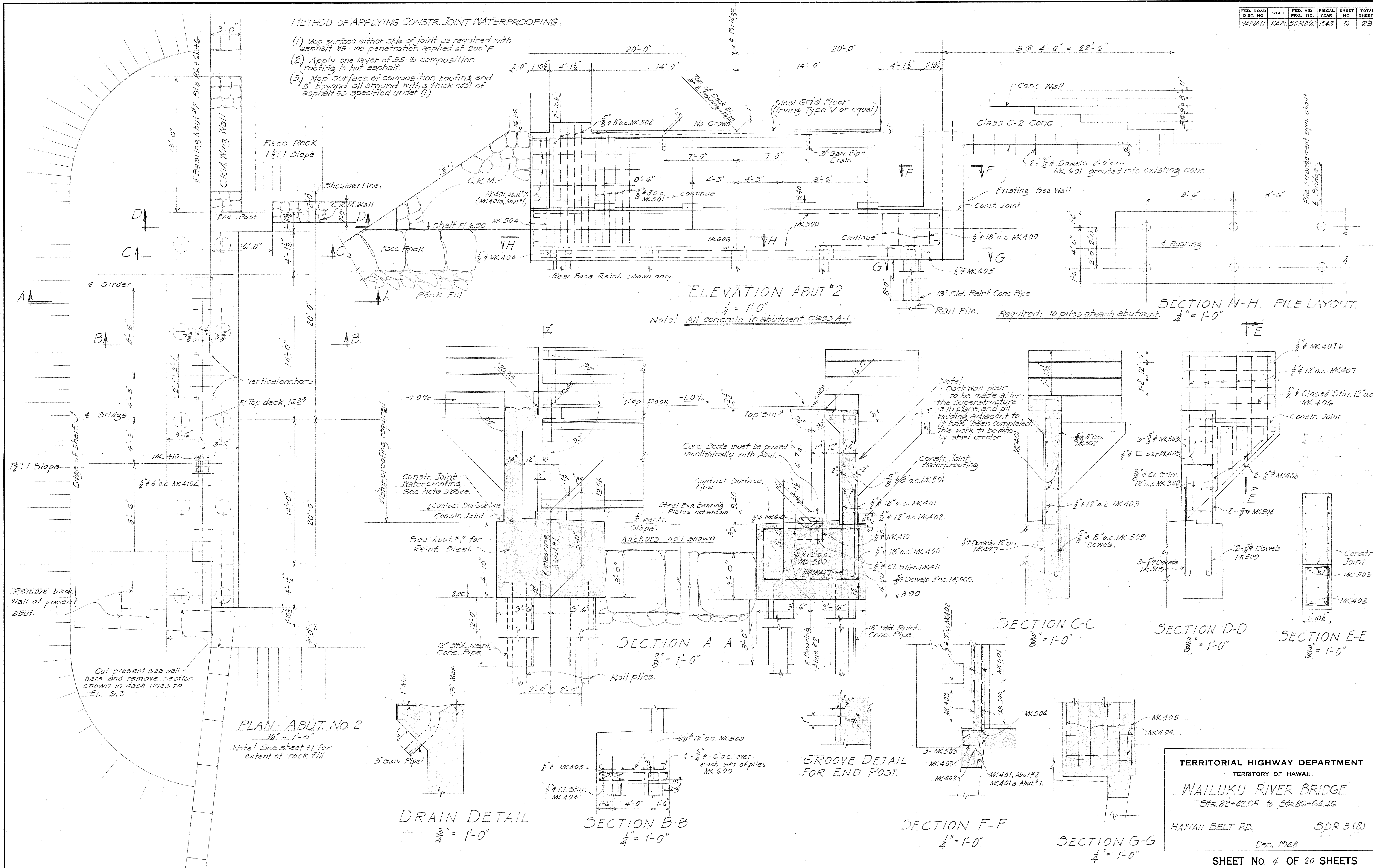
SHEET No. 2 OF 20 SHEETS

5 3 7 2 0 4



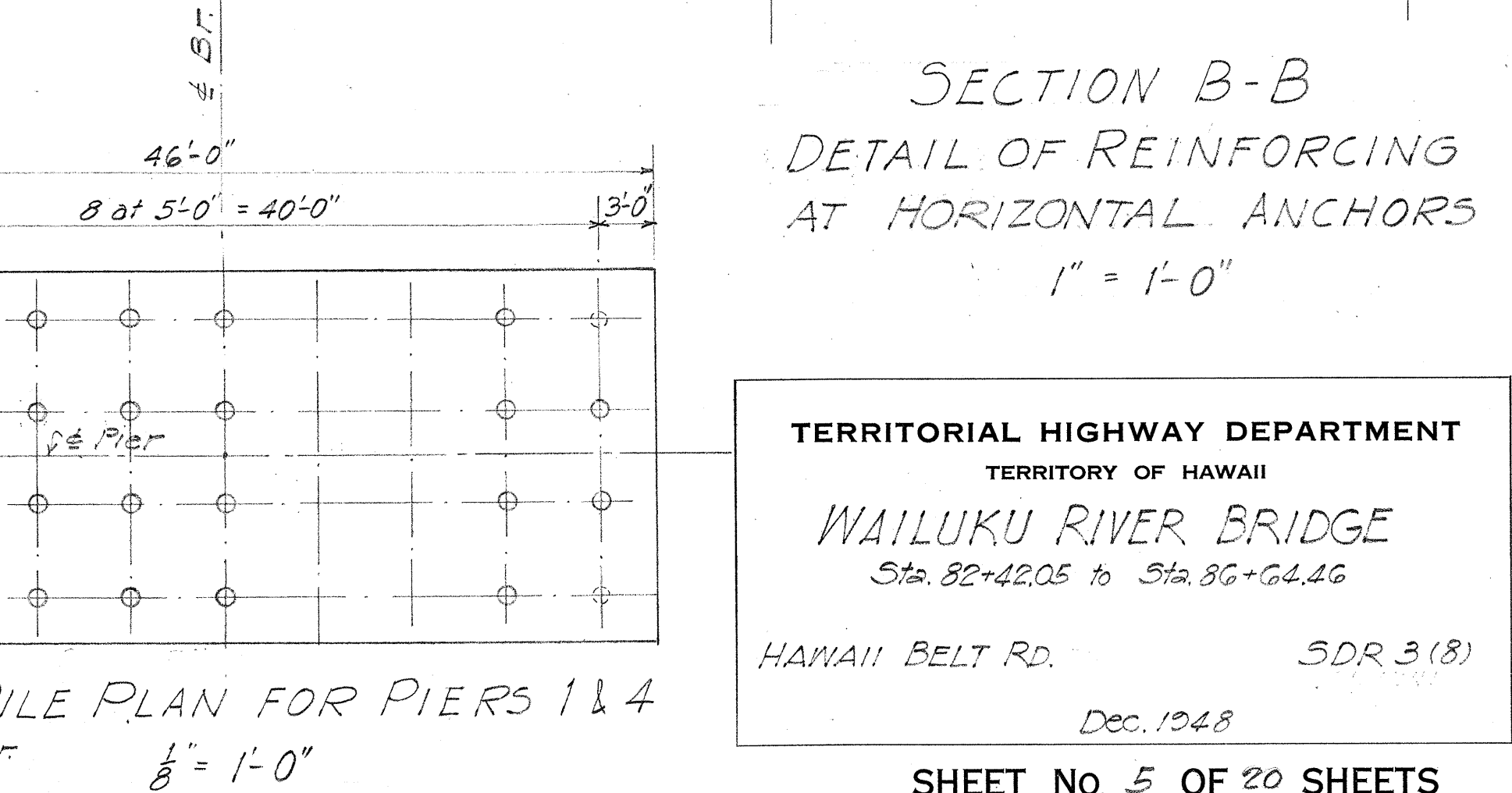
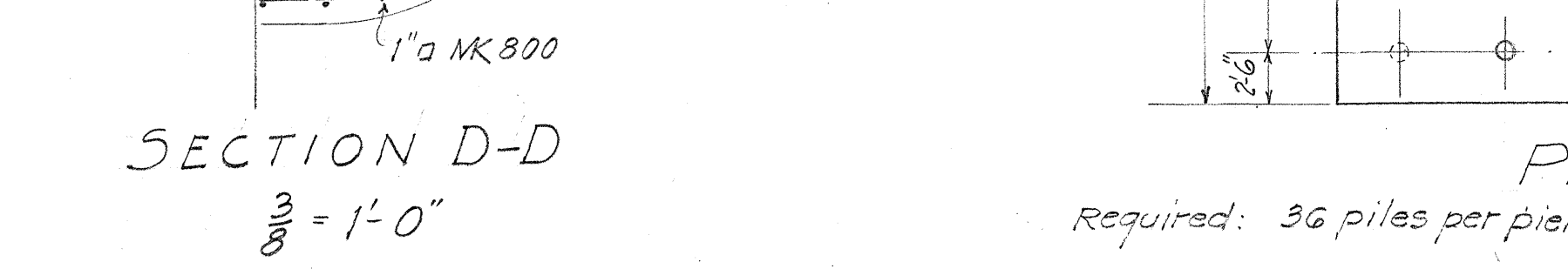
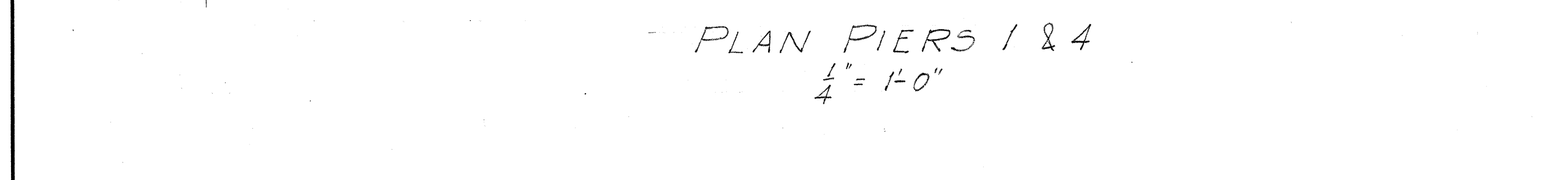
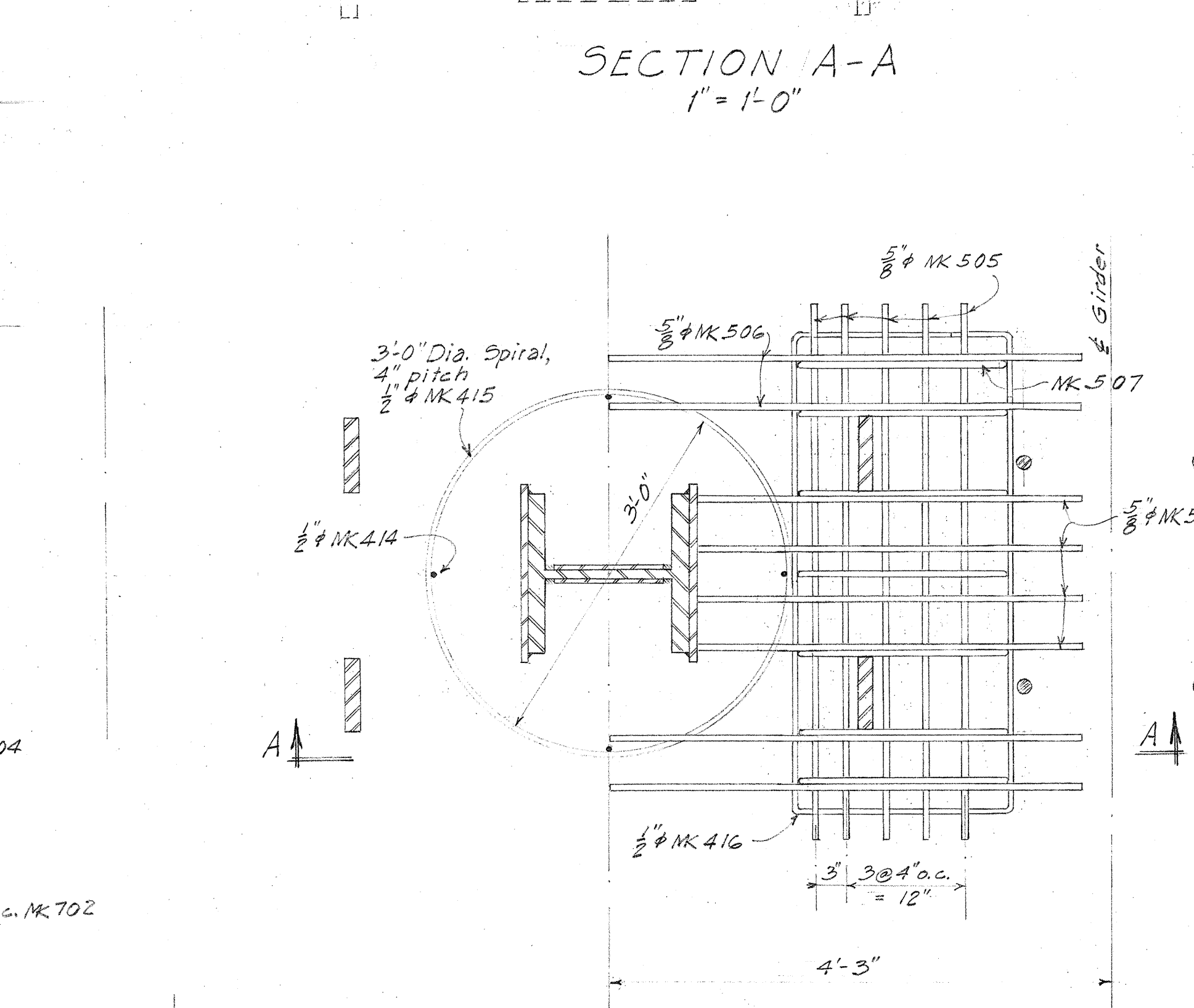
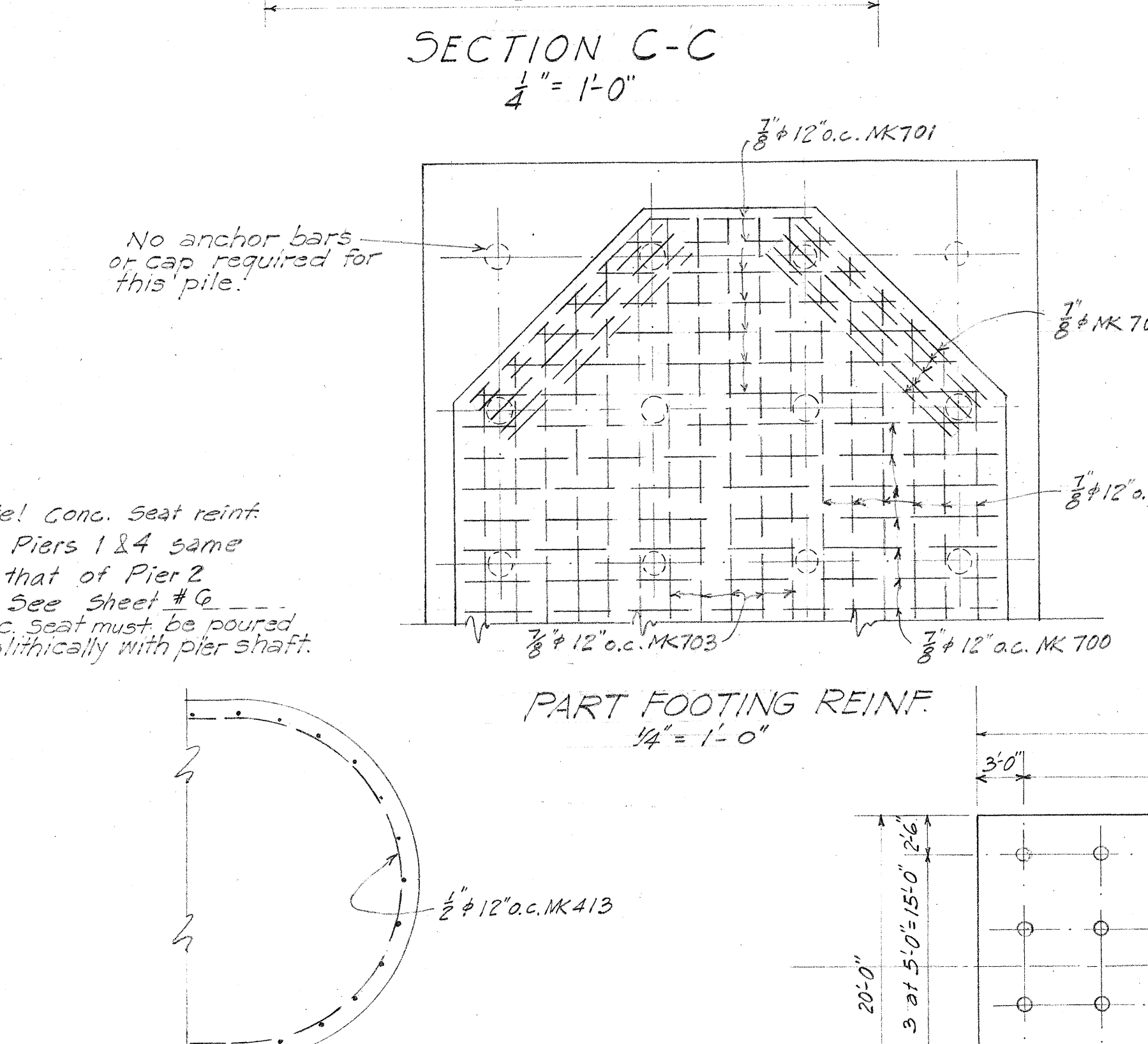
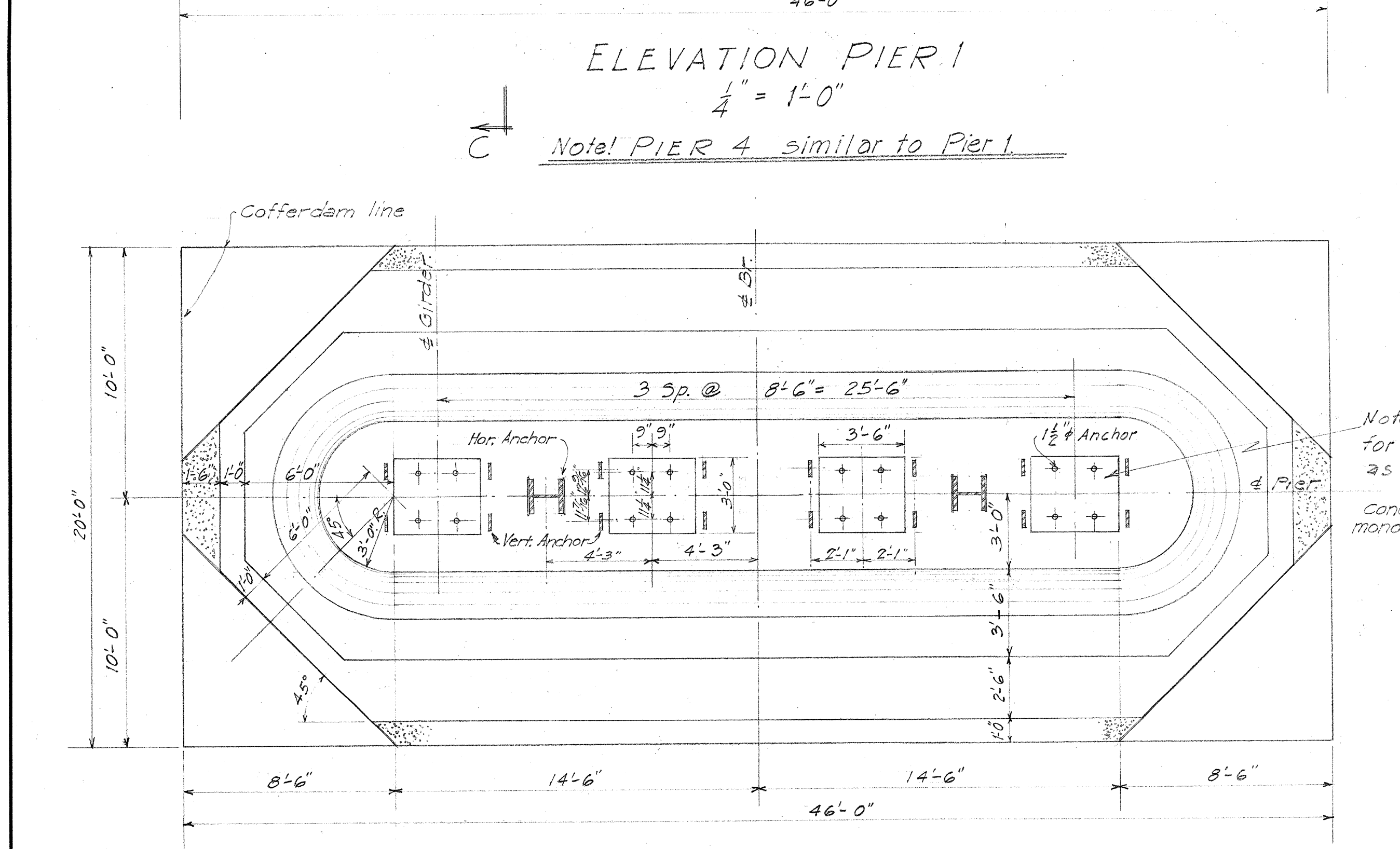
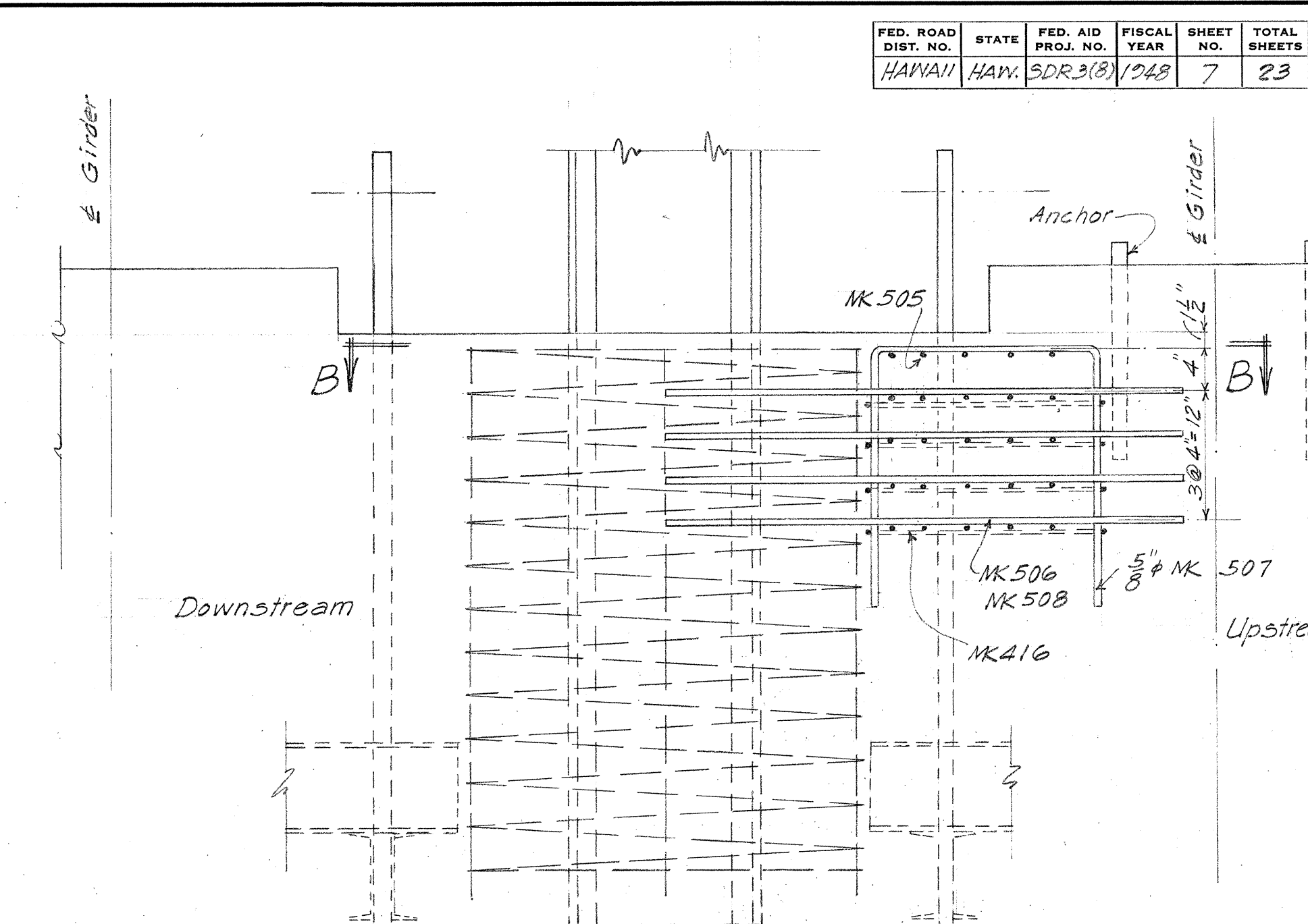
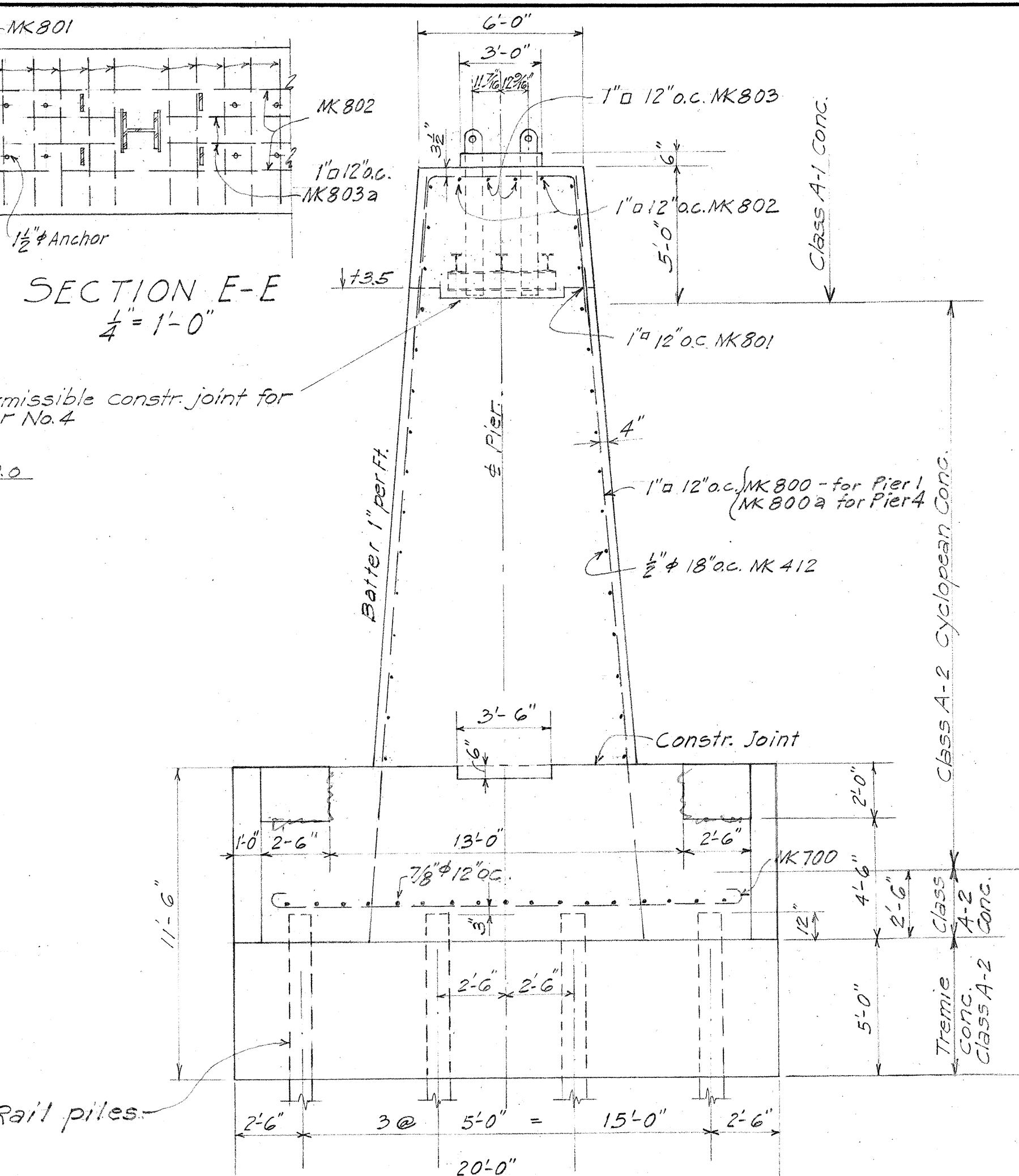
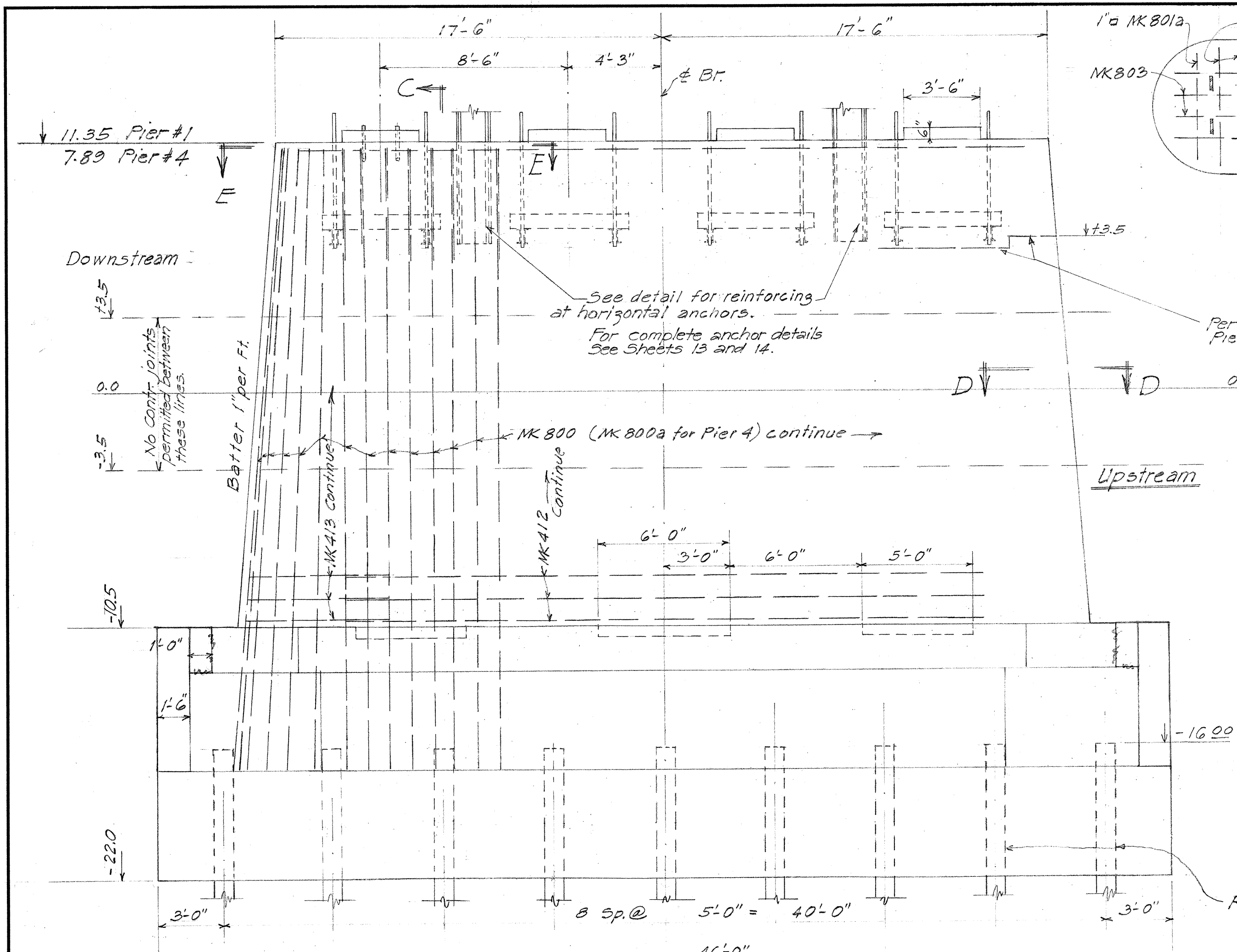
METHOD OF APPLYING CONSTR. JOINT WATERPROOFING.

- (1) Mop surface either side of joint as required with asphalt 85-100 penetration applied at 200°F.
- (2) Apply one layer of 55-lb composition roofing to hot asphalt.
- (3) Mop surface of composition roofing and 3' beyond all around with a thick coat of asphalt as specified under (1).

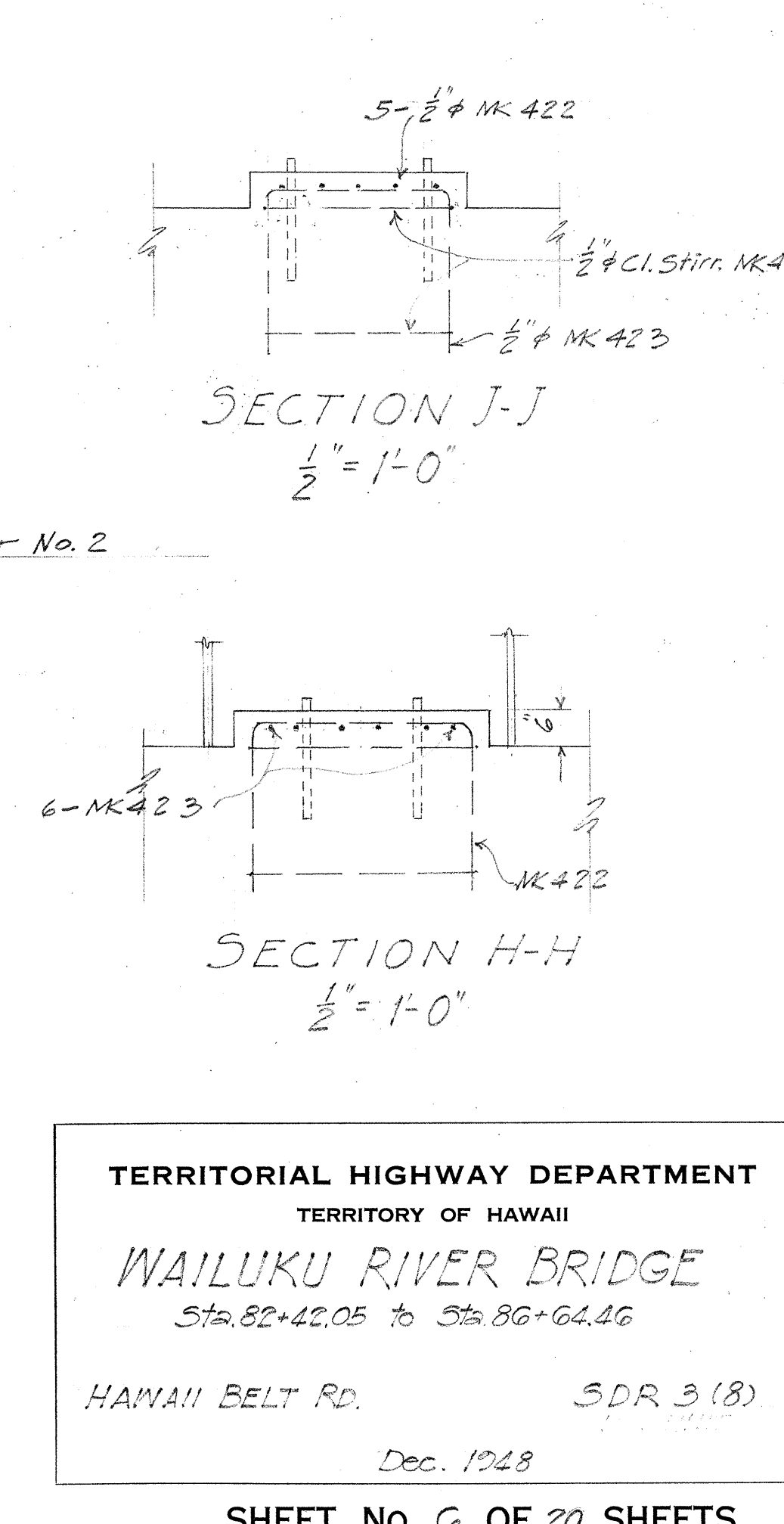
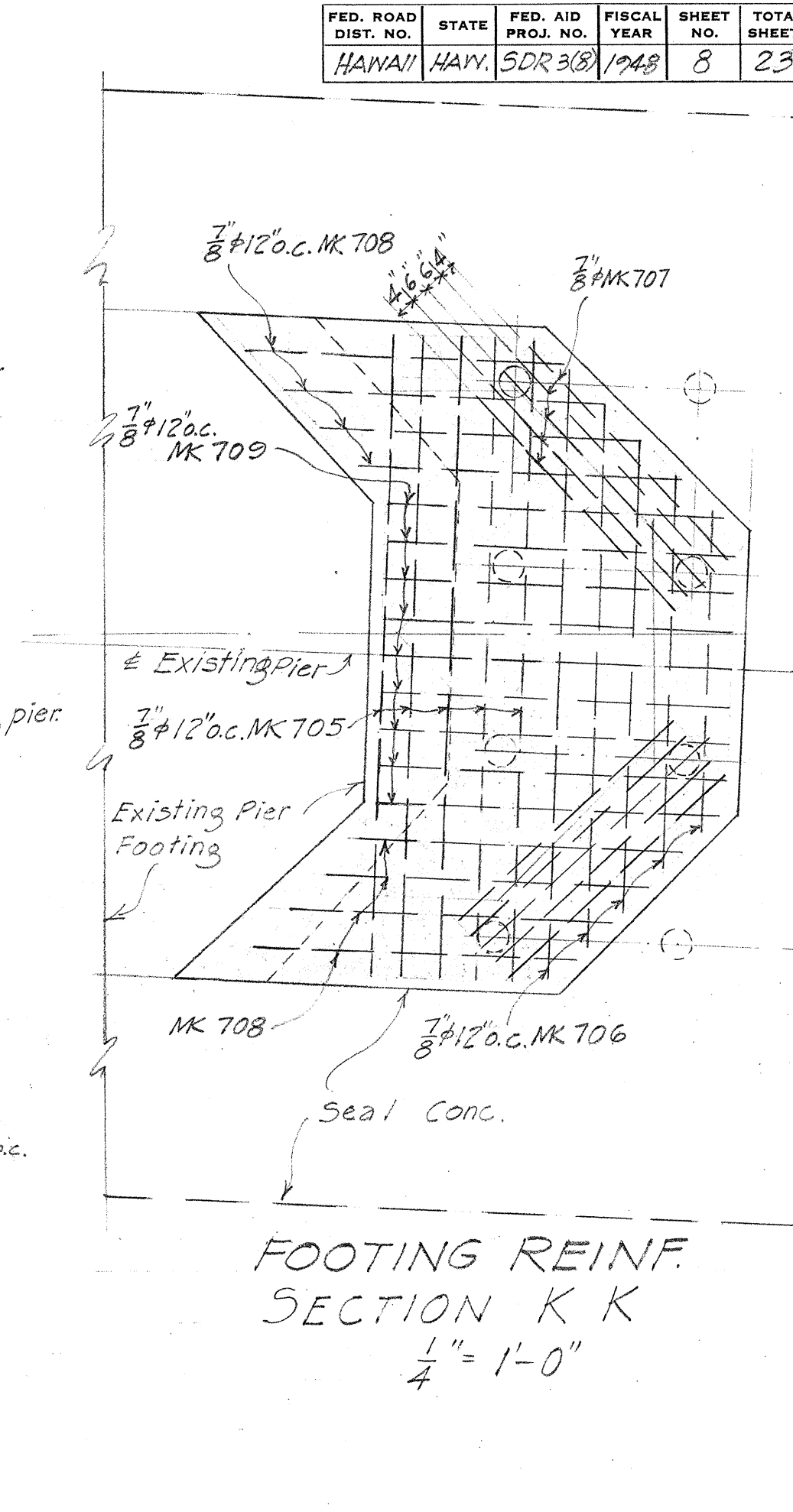


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WAILUKU RIVER BRIDGE
Sta. 82+42.05 to Sta. 86+64.46
HAWAII BELT RD. SDR 3 (8)
Dec. 1948
SHEET NO. 4 OF 20 SHEETS

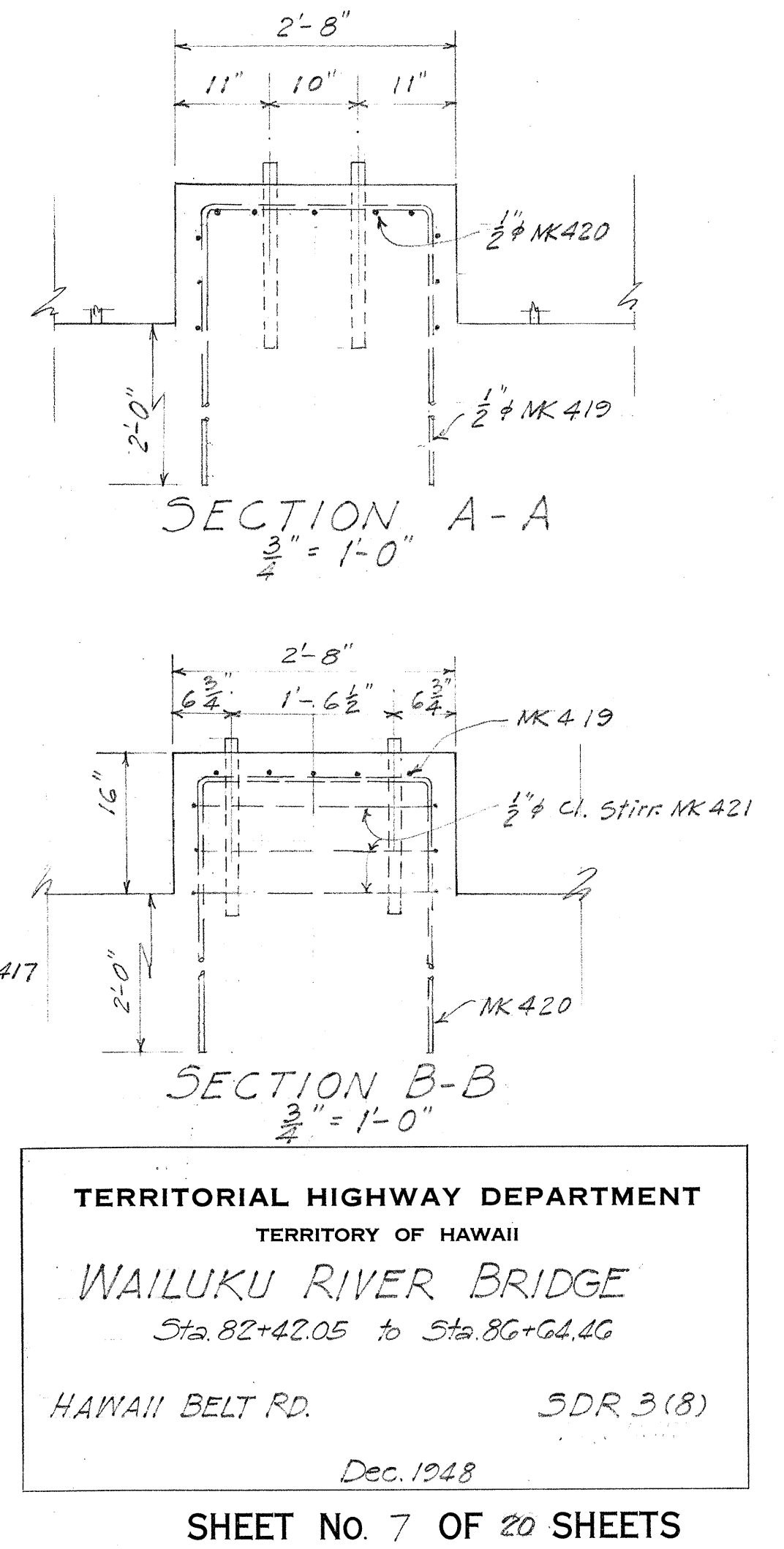
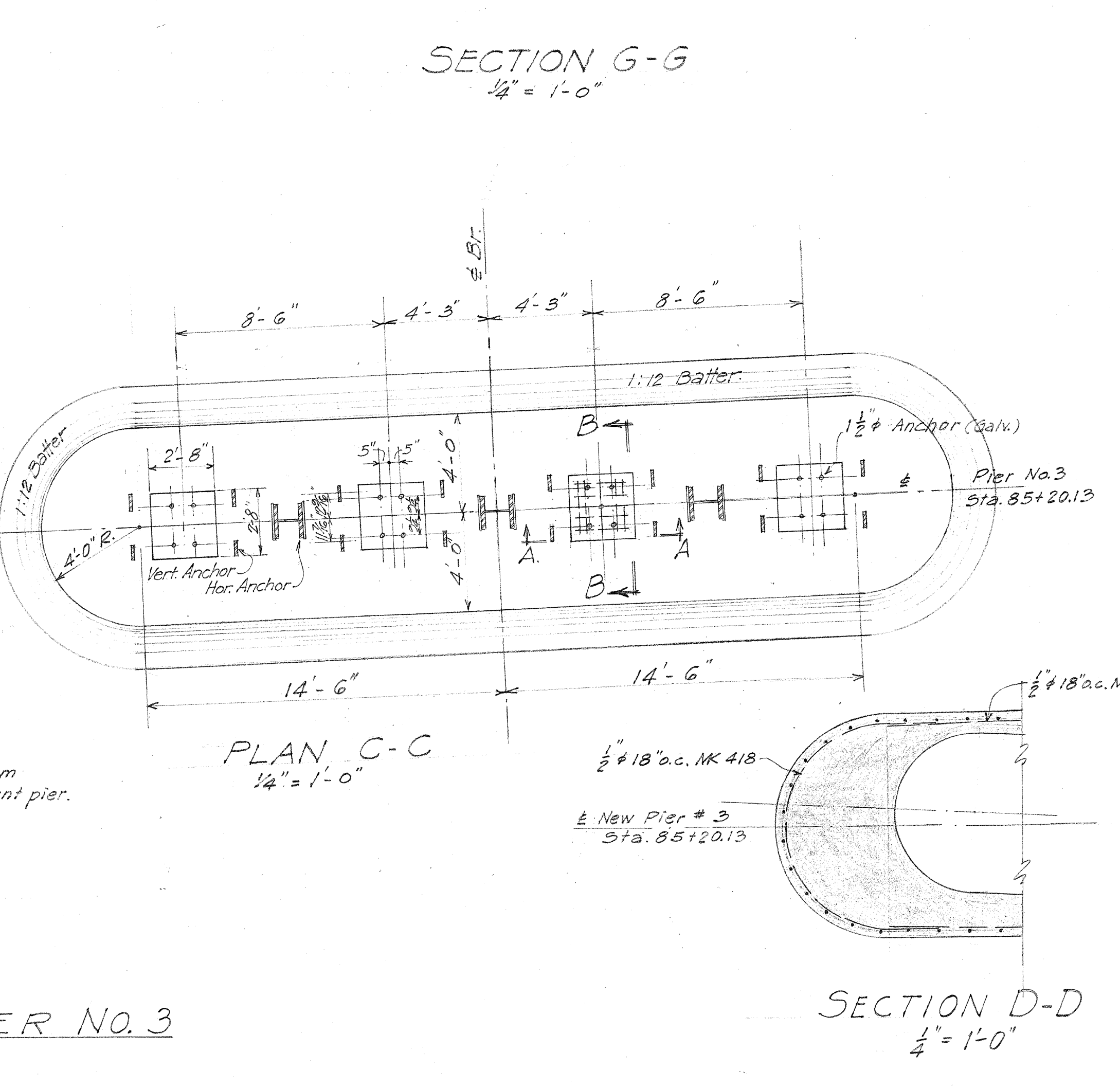
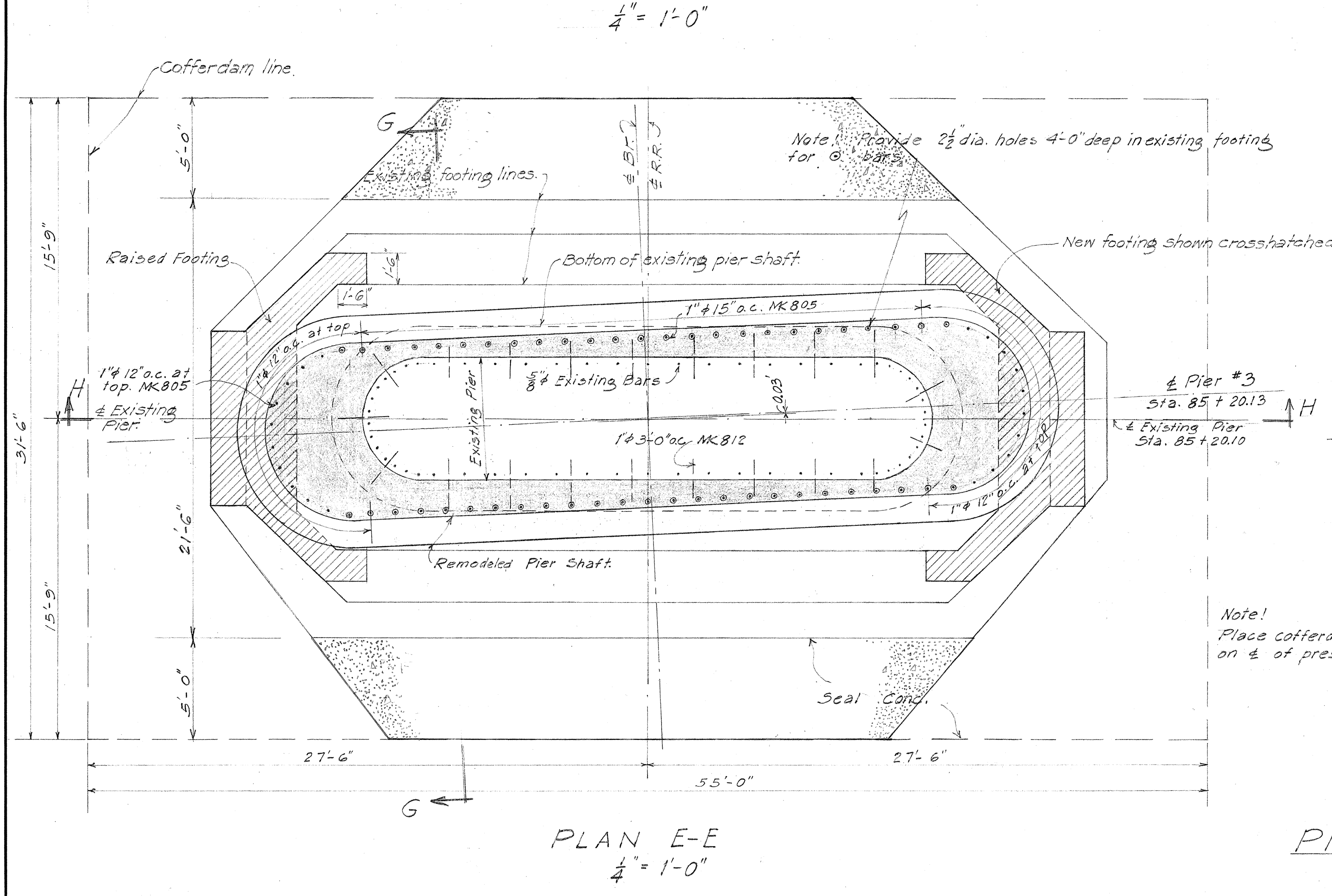
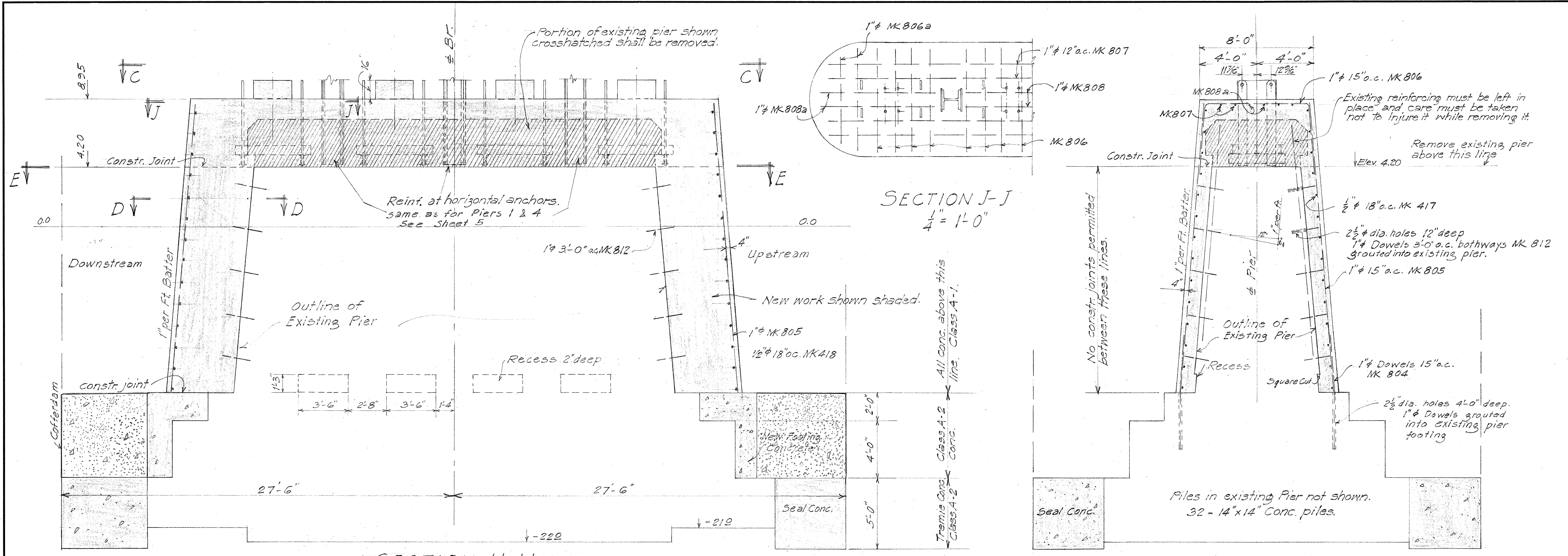
SURVEY PLOTTED BY: [Name]
DATE: [Date]
DRAWN BY: [Name]
CHECKED BY: [Name]
ORIGINAL PLAN
NOTE BOOK
No.



SURVEY PLOTTED BY: DATE: 1/2/49
 DESIGNED BY: J. L. O'NEILL
 TRACED BY: J. L. O'NEILL
 QUANTITIES CHECKED BY: J. L. O'NEILL
 NOTE BOOK No. 1



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	SDR 3(8)	1948	9	23

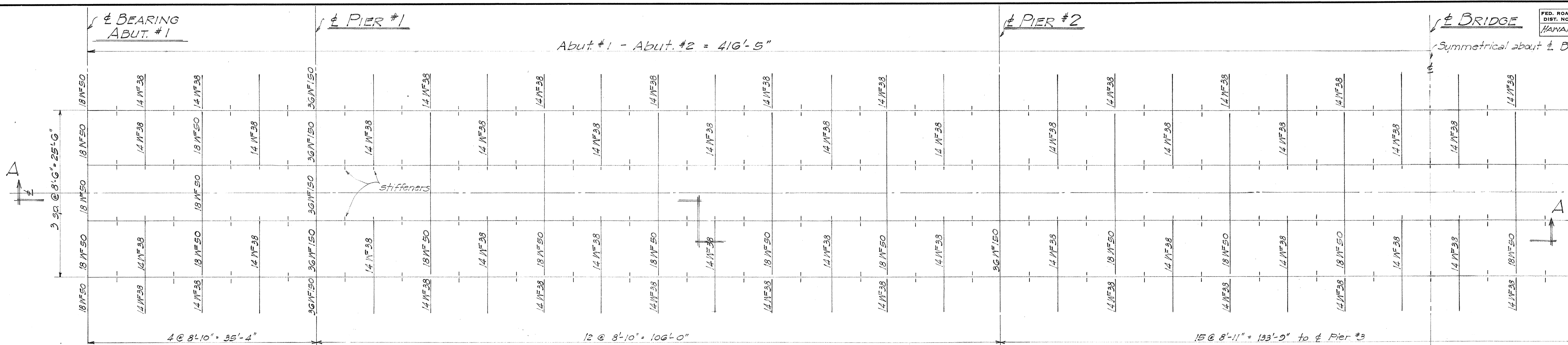


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WAILUKU RIVER BRIDGE
Sta. 82+42.05 to Sta. 86+64.46
HAWAII BELT RD. SDR 3(8)
Dec. 1948
SHEET NO. 7 OF 20 SHEETS

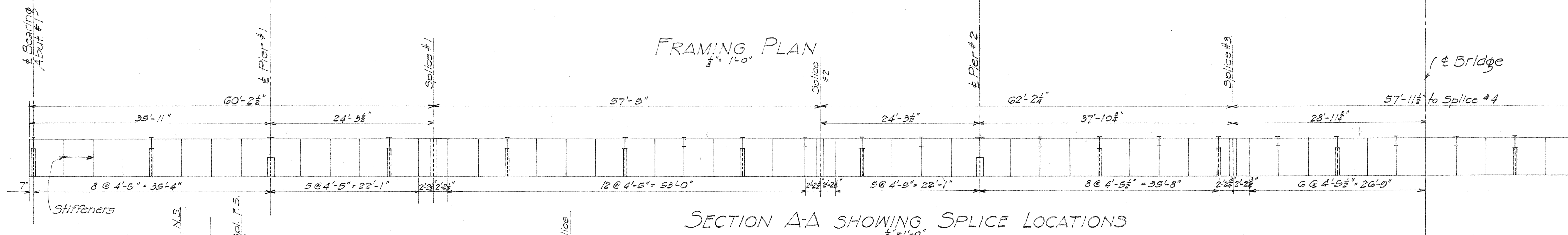
ORIGINAL PLAN	DATE
NO. 1	12/1/48
NO. 2	12/1/48
NO. 3	12/1/48
NO. 4	12/1/48
NO. 5	12/1/48
NO. 6	12/1/48
NO. 7	12/1/48
NO. 8	12/1/48
NO. 9	12/1/48
NO. 10	12/1/48

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	SDR 3(8)	1948	10	23

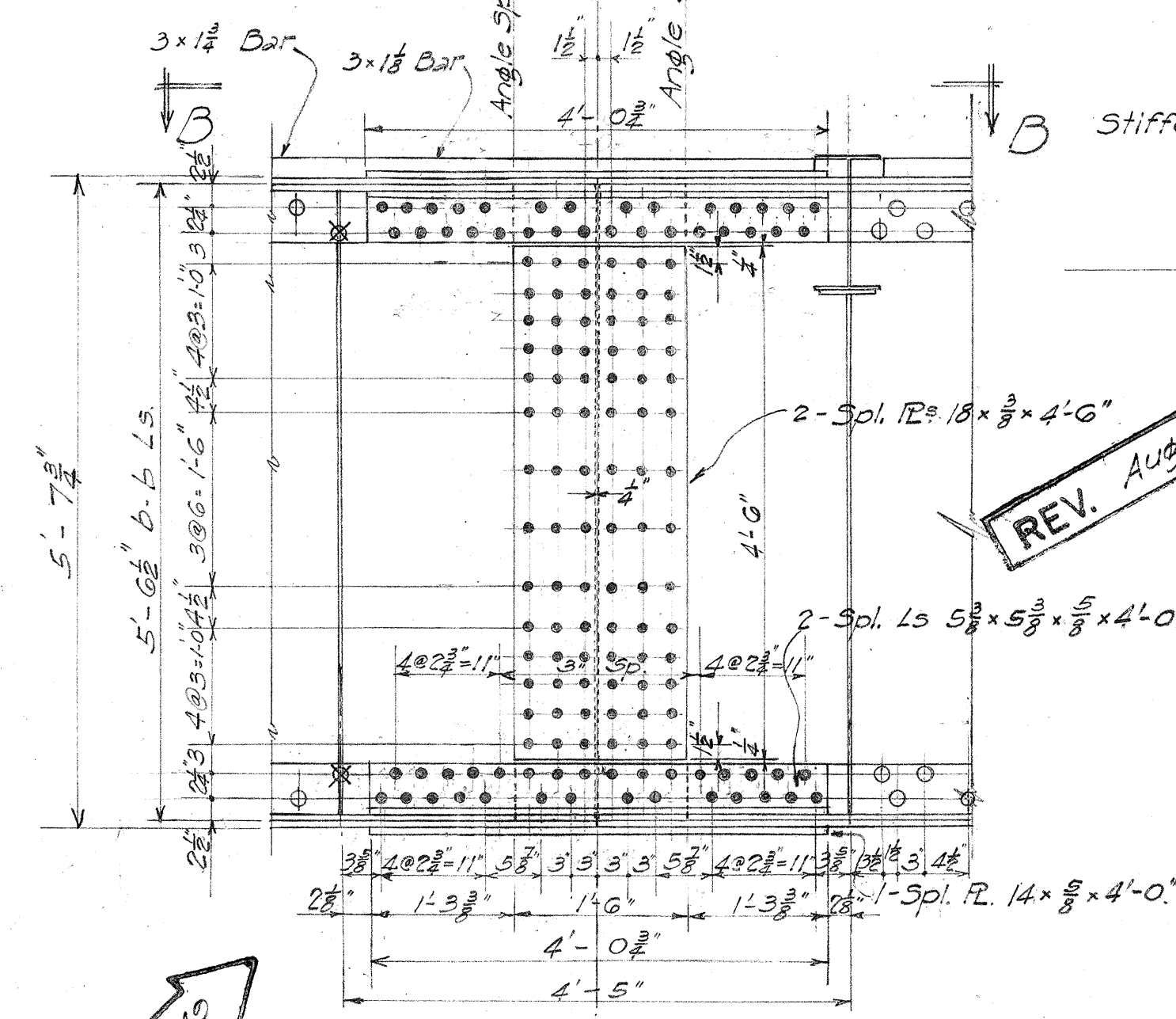
Rev. Aug. 1949



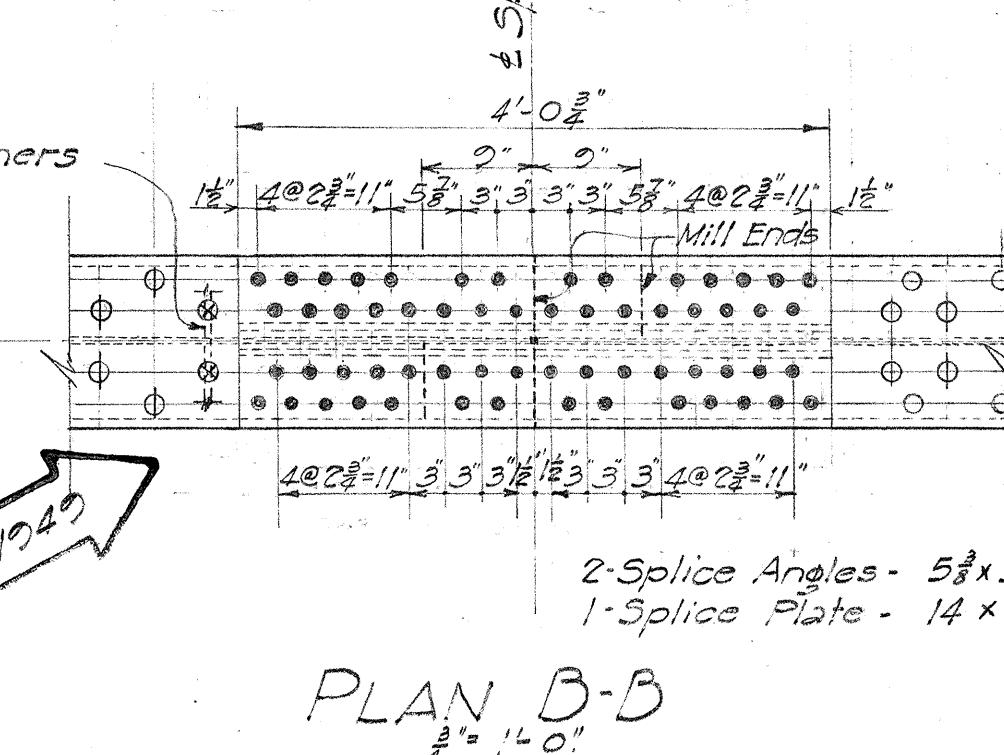
FRAMING PLAN
1/2" = 1'-0"



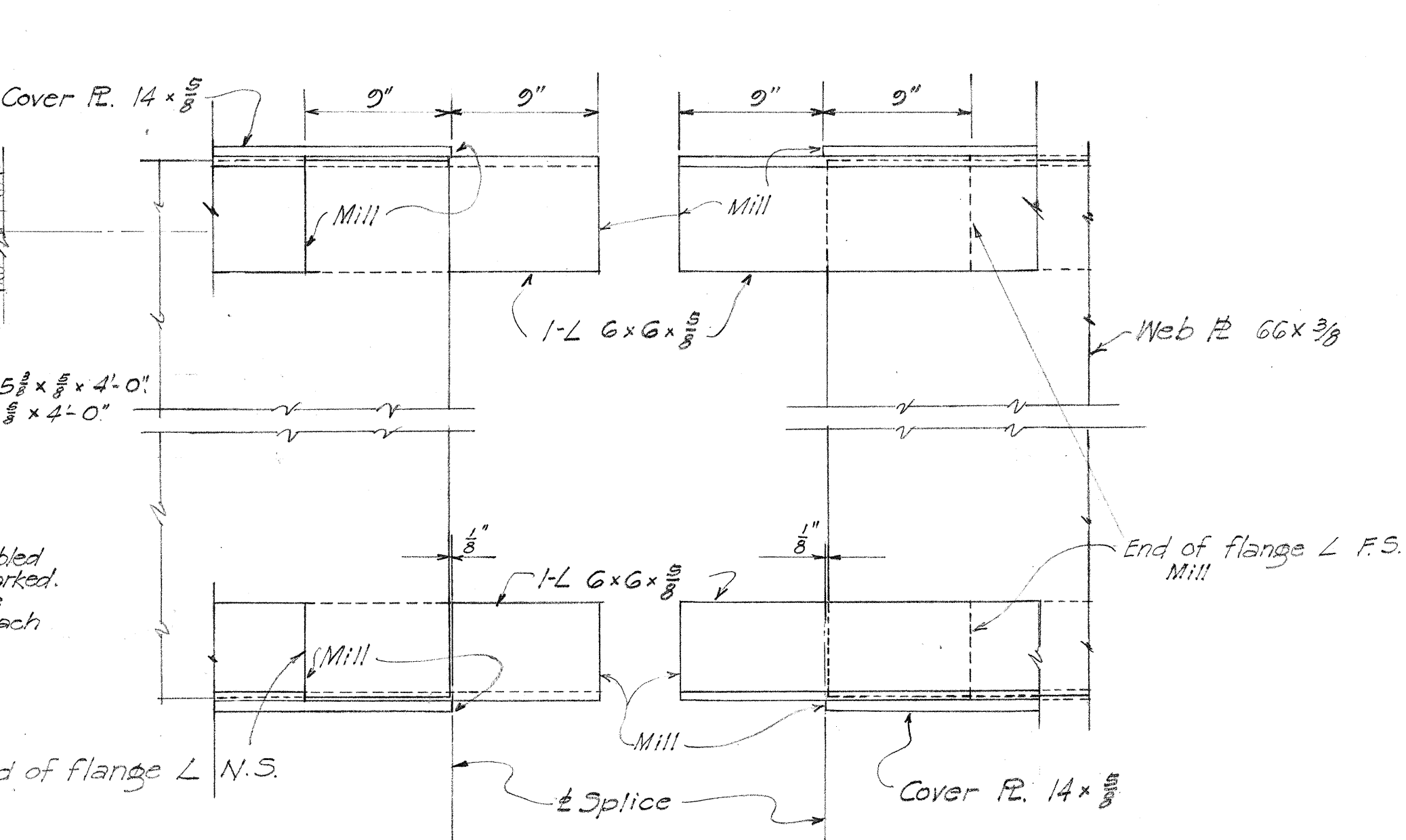
SECTION A-A SHOWING SPLICE LOCATIONS
1/8" = 1'-0"



TYPICAL SPLICE
1/2" = 1'-0"



PLAN B-B
1/2" = 1'-0"



ELEV. OF ENDS OF GIRDER SECTIONS
1/2" = 1'-0"

REV. Aug. 1949

NOTE: Rivet spacings at splice revised in accordance with fabricator's requirements.

NOTE! All field splices of girders shall be assembled in the shop, holes reamed and pieces match marked. Manufacturer shall furnish a diagram showing the identification of the various pieces comprising each splice.

Note! Splice Ls and plates not shown.

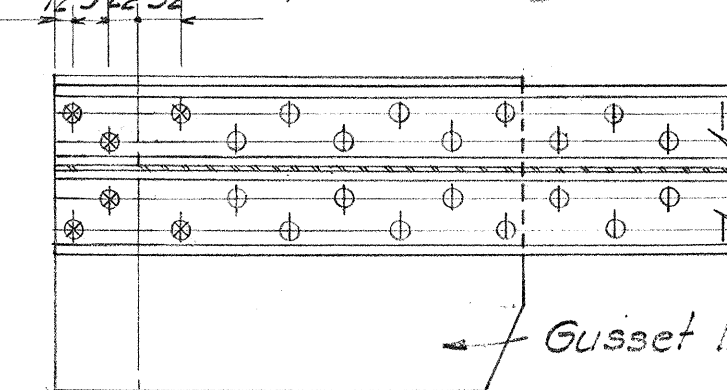
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY: B. Bartels	Dec. 1948
DRAWN BY: B. Bartels	
CHECKED BY: J. J. J. J.	
NOTE BOOK	
QUANTITIES CHECKED BY: J. J. J. J.	
CHECKED BY: J. J. J. J.	

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WAILUKU RIVER BRIDGE
Sta 82+42.05 to Sta 82+64.46
HAWAII BELT RD. SDR 3(8)
Dec. 1948

5382.10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	SDR 38	1948	17	23

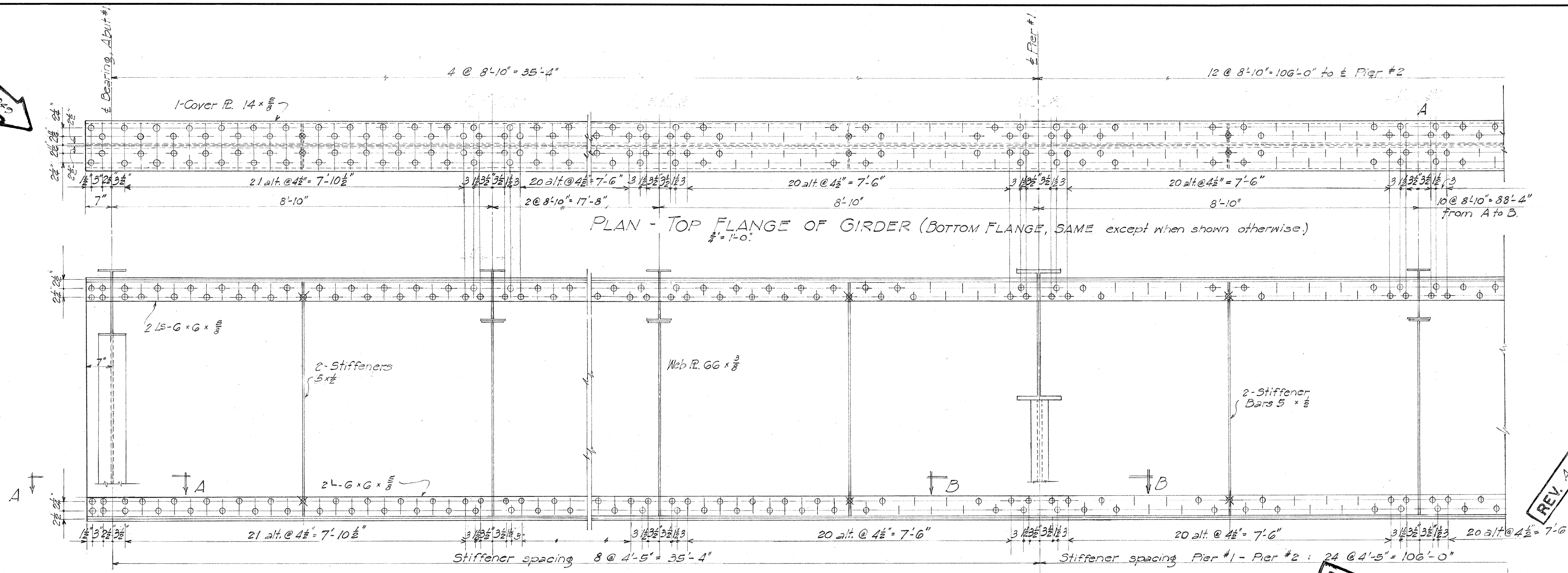
Rev. Aug. 1949
 Sept. 1949: Bottom flange rivet spacing at pier bearings rearranged.



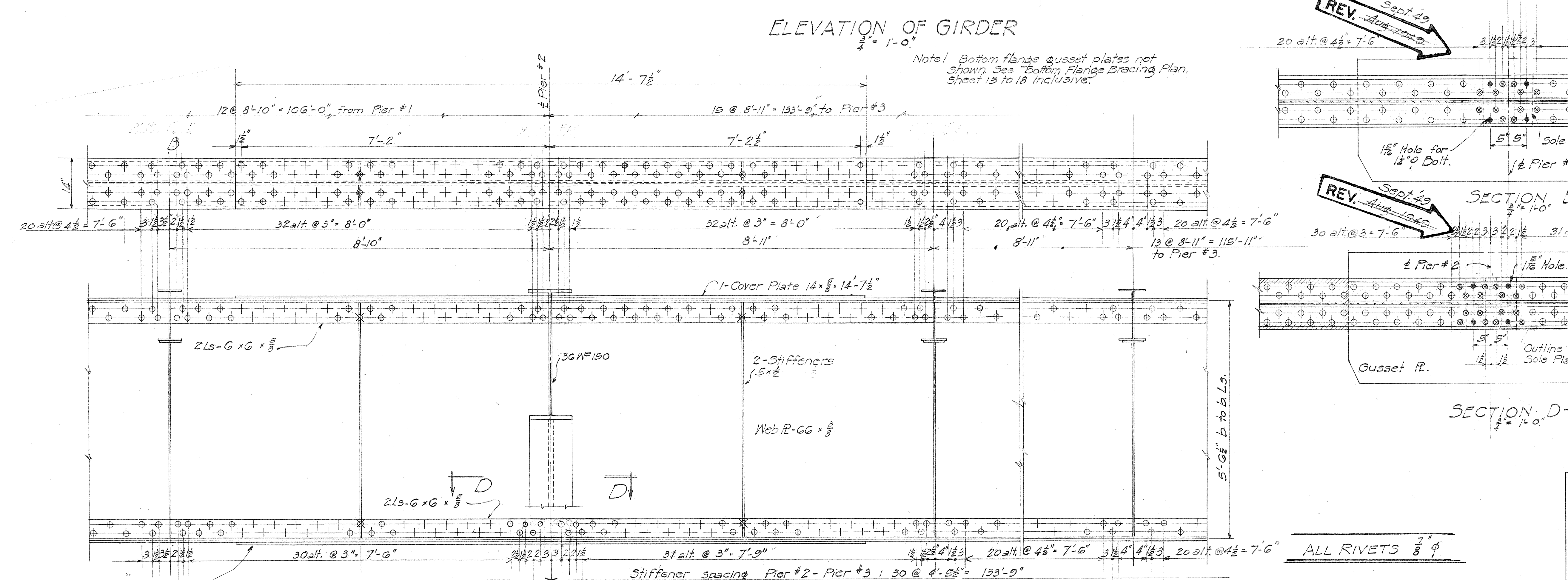
SECTION A-A
 $\frac{1}{4}'' = 1'-0''$

NOTE:
 Rivet spacings at panel points revised in accordance with fabricators requirements.

REV. Aug. 1949

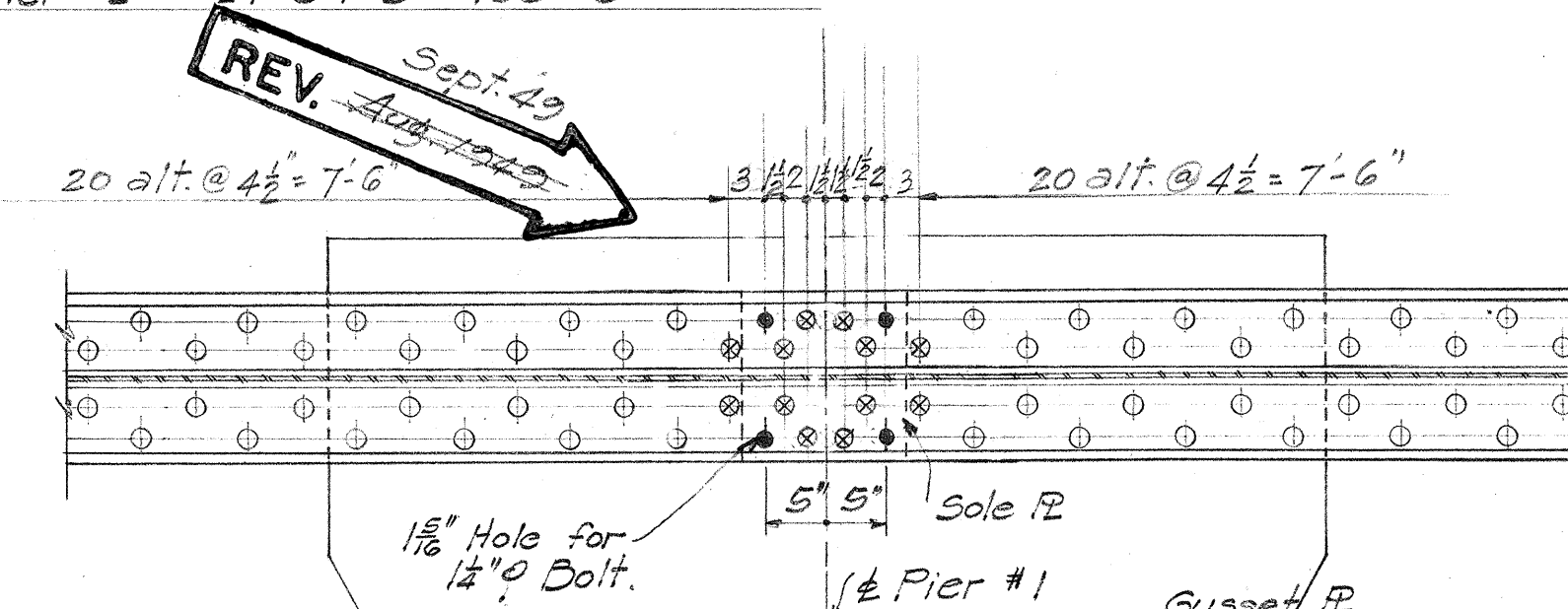


PLAN - TOP FLANGE OF GIRDER (BOTTOM FLANGE, SAME except when shown otherwise.)
 $\frac{3}{4}'' = 1'-0''$

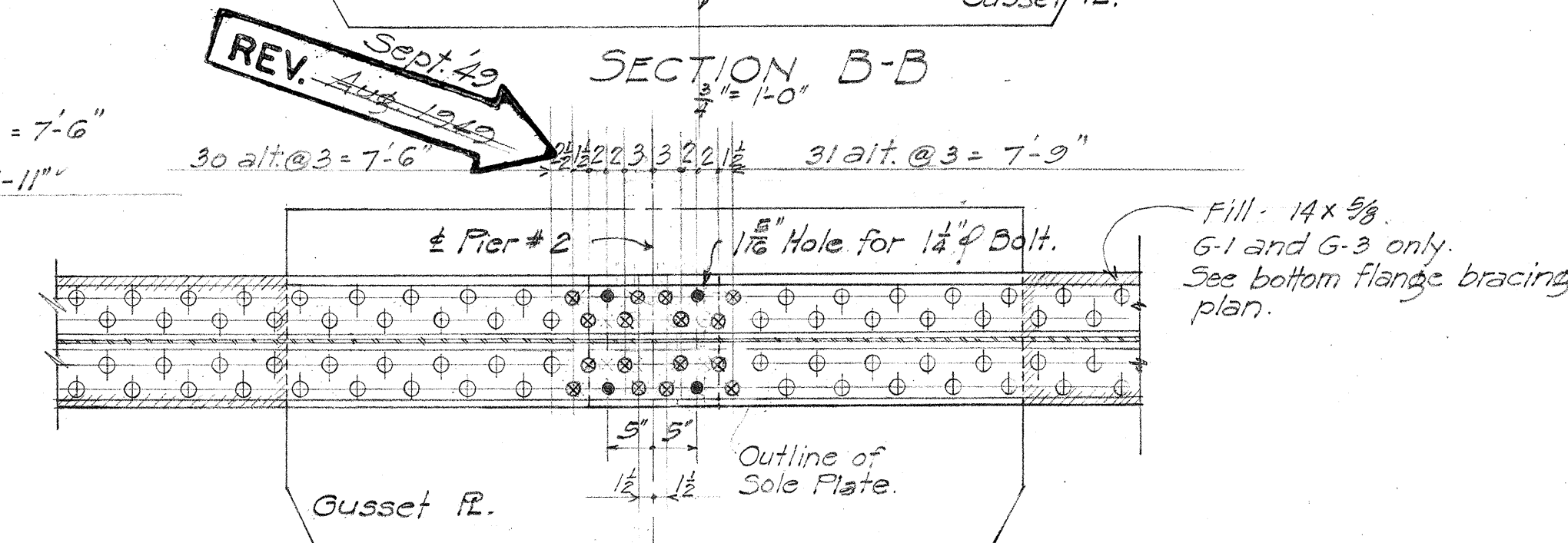


ELEVATION OF GIRDER
 $\frac{3}{4}'' = 1'-0''$

Note! Bottom flange gusset plates not shown. See Bottom Flange Bracing Plan, Sheet 15 to 18 inclusive.



SECTION B-B
 $\frac{1}{4}'' = 1'-0''$



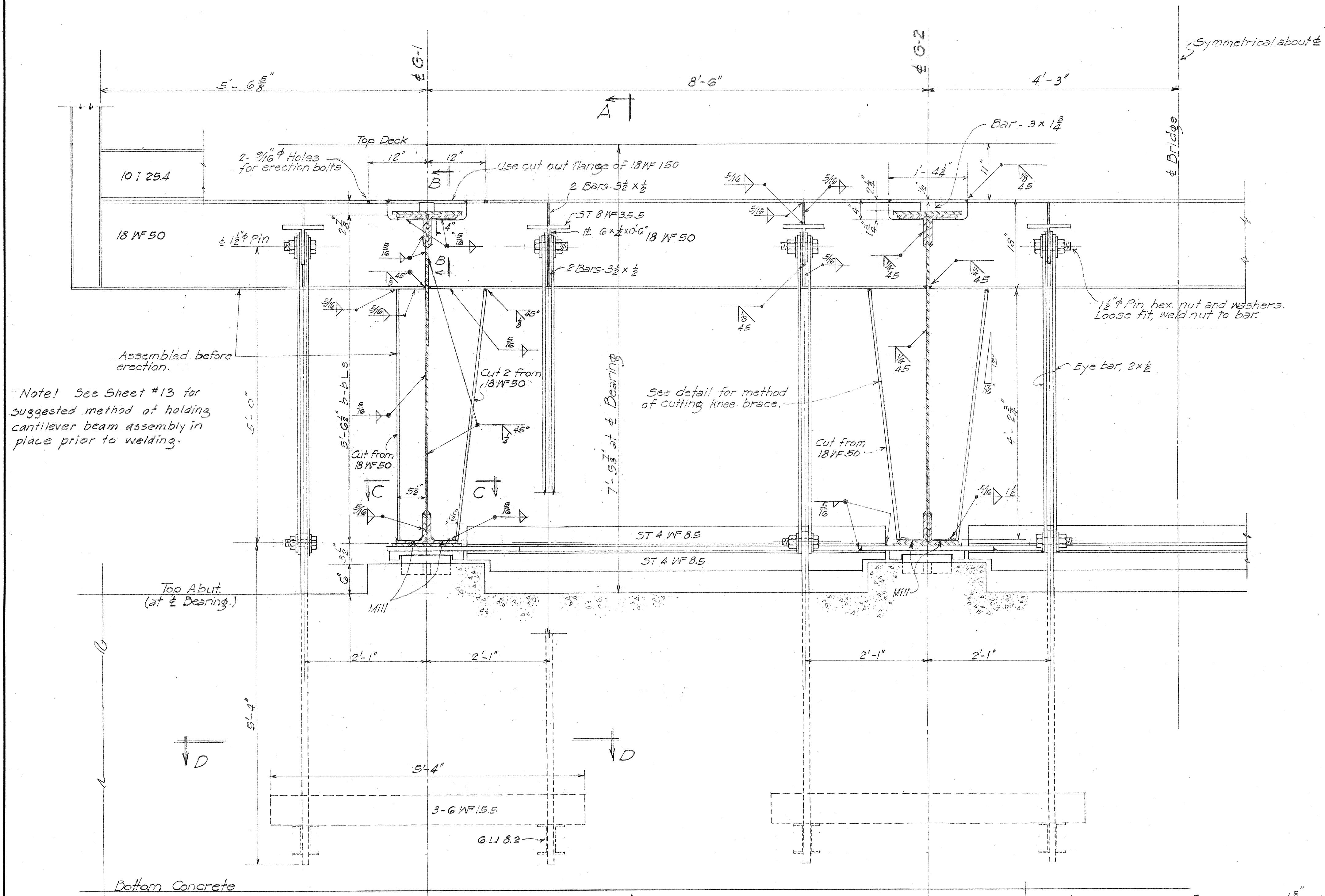
SECTION D-D
 $\frac{1}{4}'' = 1'-0''$

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 WAILUKU RIVER BRIDGE
 Sta 82+42.05 to Sta 86+64.46
 HAWAII BELT RD. SDR 3 (8)
 Dec. 1948

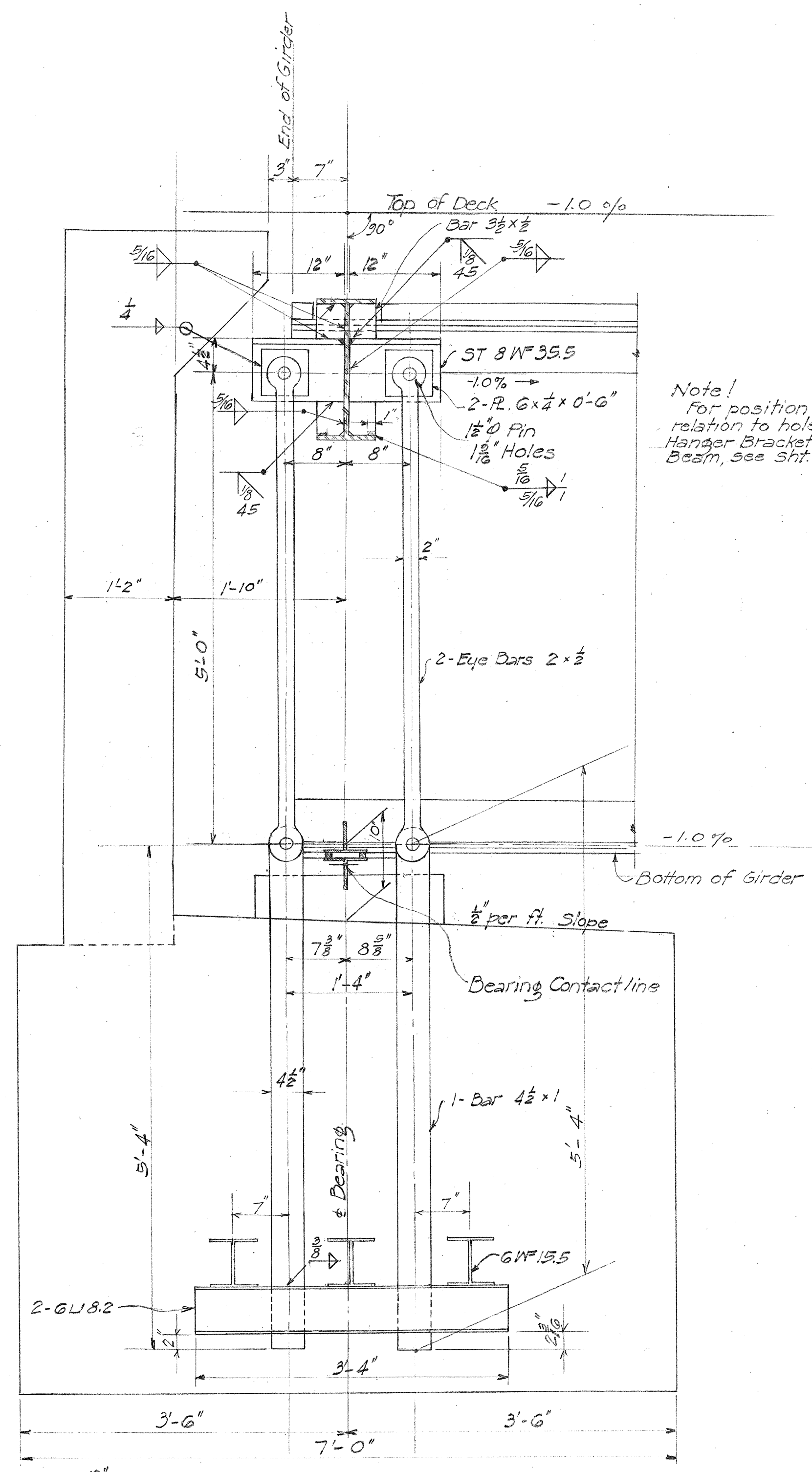
SHEET NO. 9 OF 20 SHEETS

5372.11

SURVEY PLOTTED BY: DATE: 10/2/48
 DRAWN BY: J. H. HARRIS
 TRACED BY: J. H. HARRIS
 QUANTITIES CHECKED BY: J. H. HARRIS
 CHECKED BY: J. H. HARRIS
 ORIGINAL PLAN NO. 1001
 NOTE BOOK NO. 1001

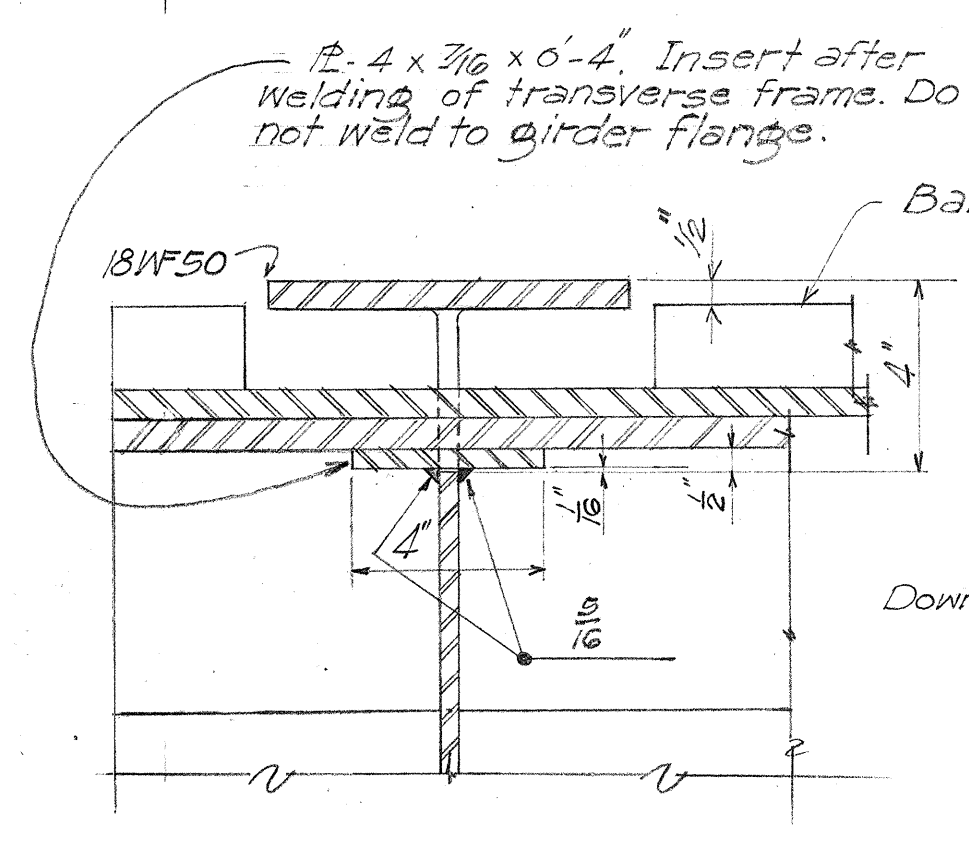


Note! See Sheet #13 for suggested method of holding cantilever beam assembly in place prior to welding.

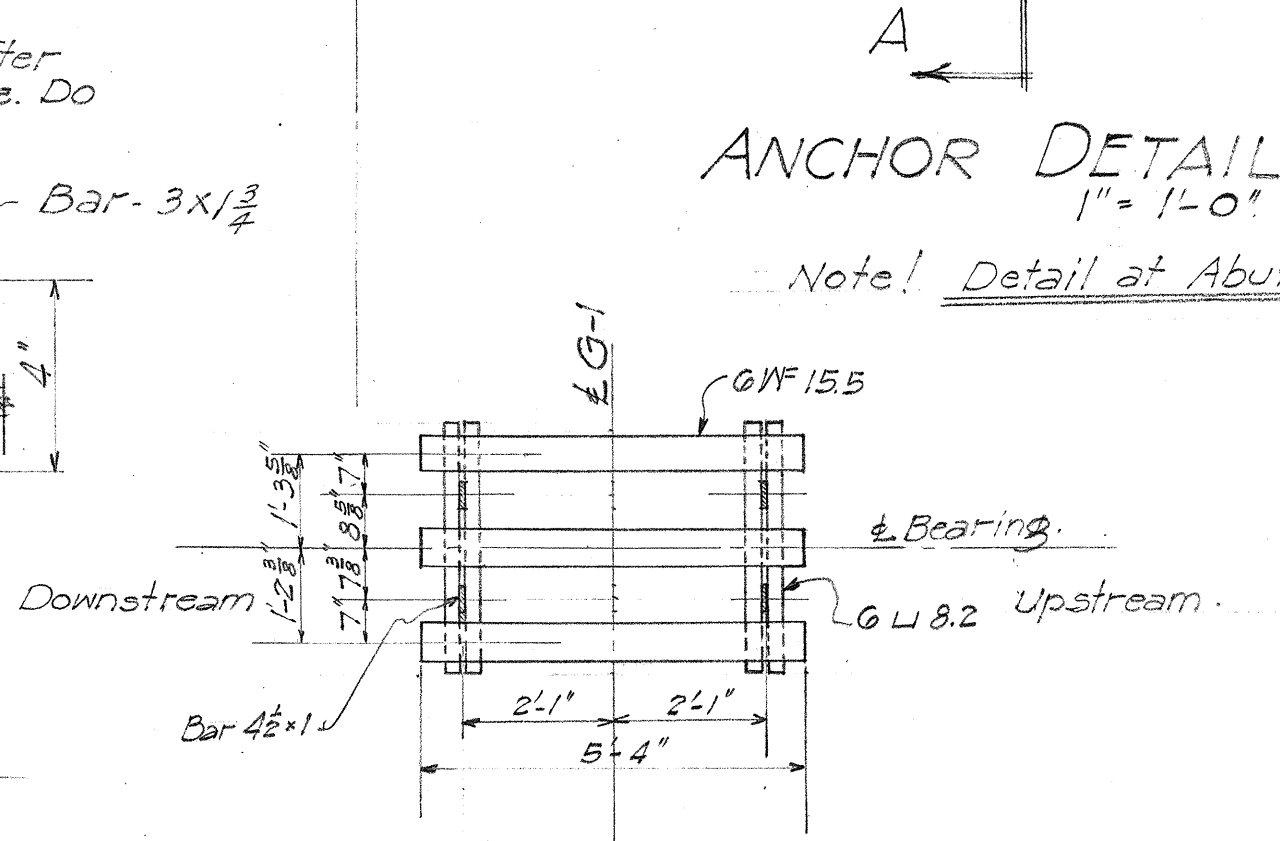


Note! For position of pins in relation to holes when welding Hanger Bracket to Transverse Beam, see Sht. 14

SECTION A-A
1" = 1'-0"



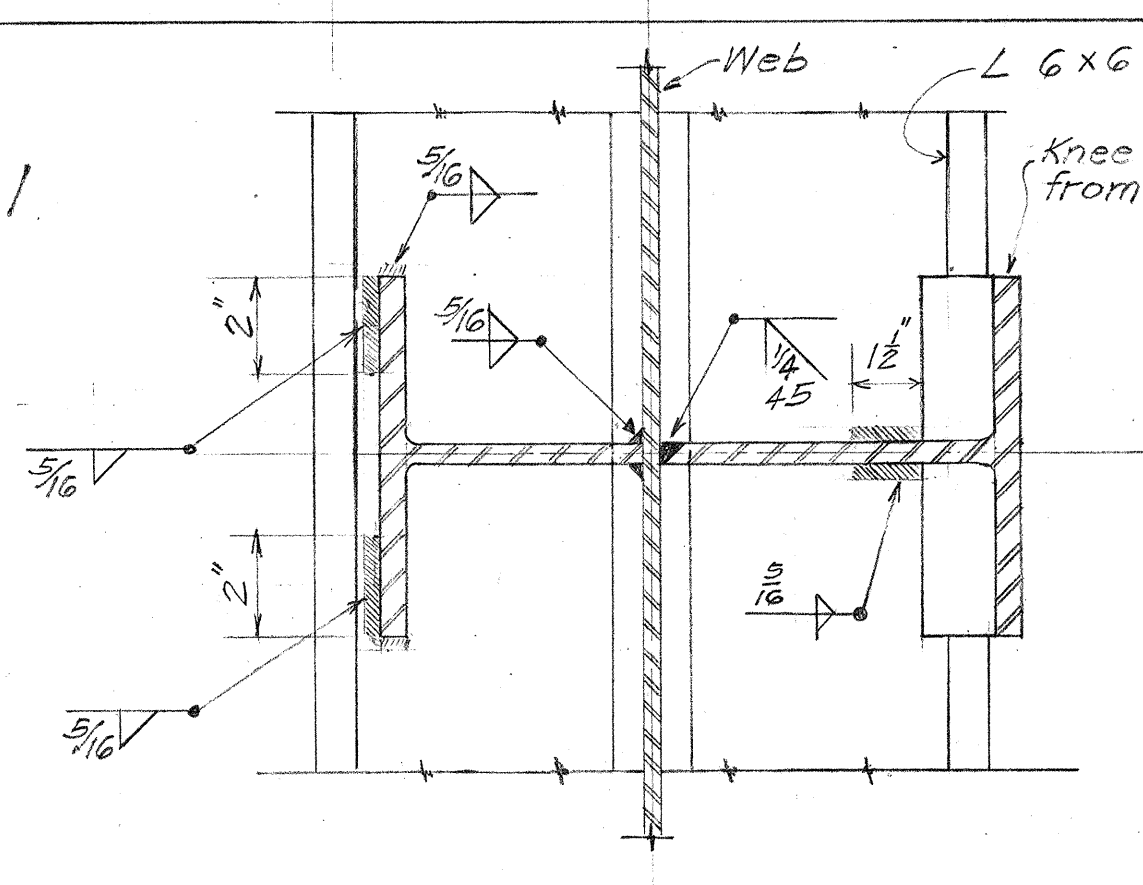
SECTION B-B
3" = 1'-0"



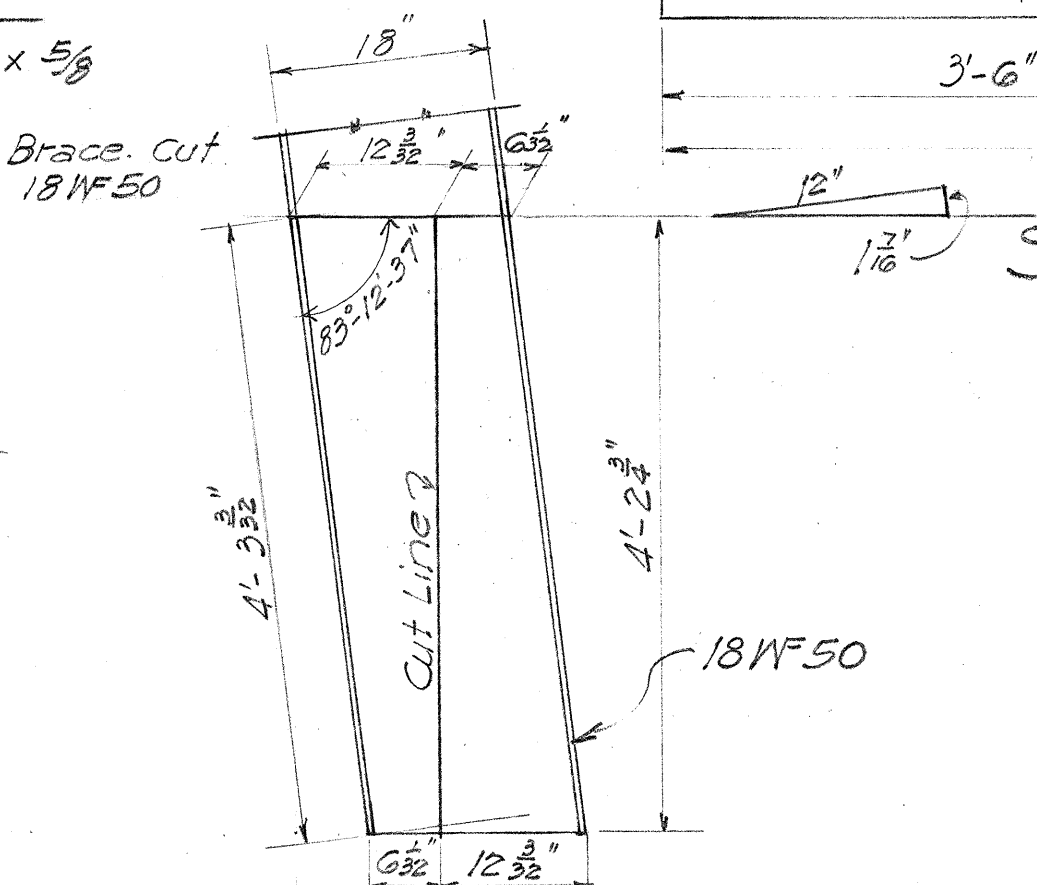
PLAN D-D
3" = 1'-0"

ANCHOR DETAIL - ABUT. #1
1" = 1'-0"

Note! Detail at Abut. #2 similar



SECTION C-C
3" = 1'-0"



METHOD OF CUTTING KNEE BRACE
3" = 1'-0"

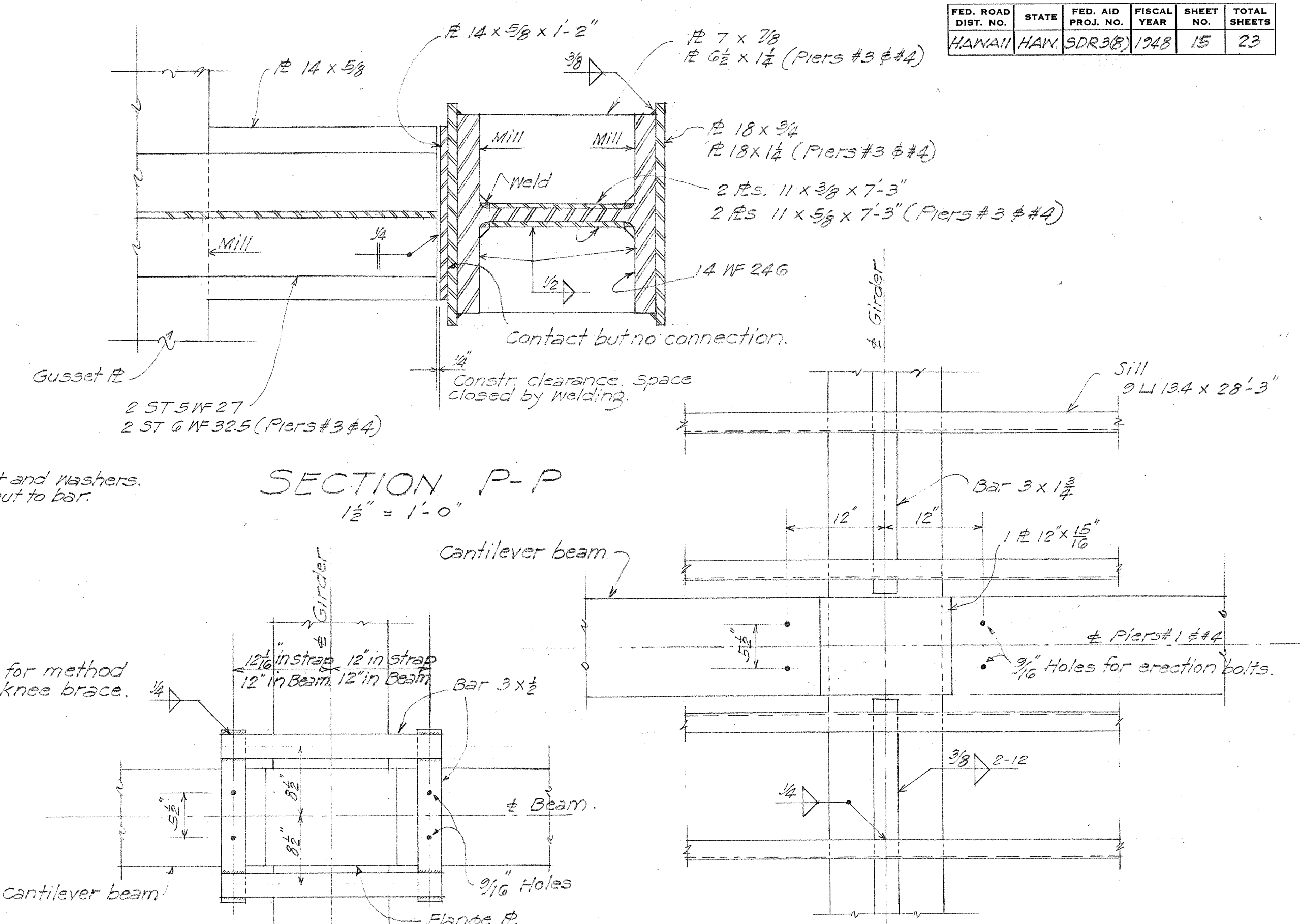
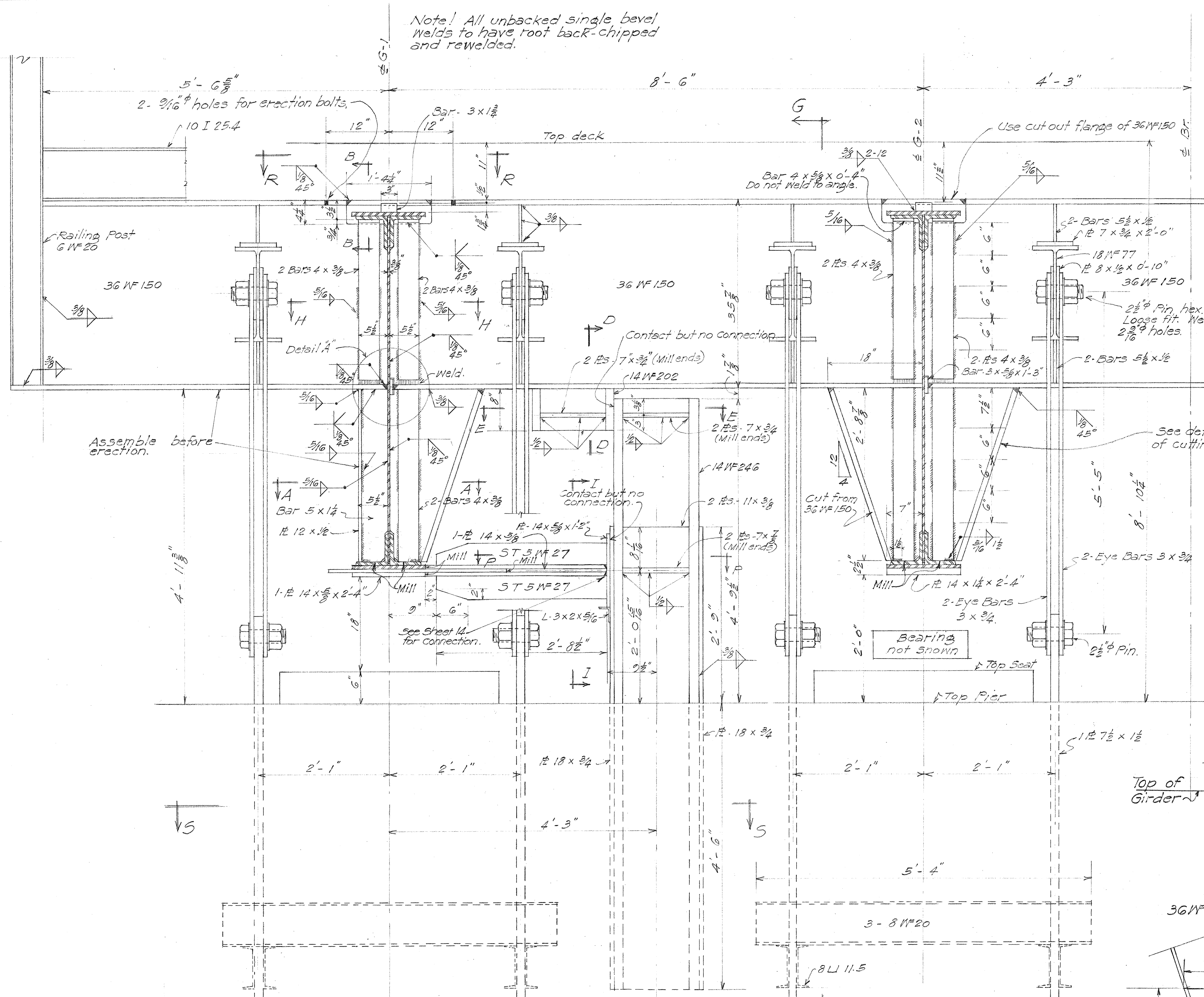
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WAILUKU RIVER BRIDGE
Sta. 82+42.05 to Sta. 86+64.46
HAWAII BELT RD. SDR 3(8)
Dec. 1948

SHEET NO. 12 OF 20 SHEETS

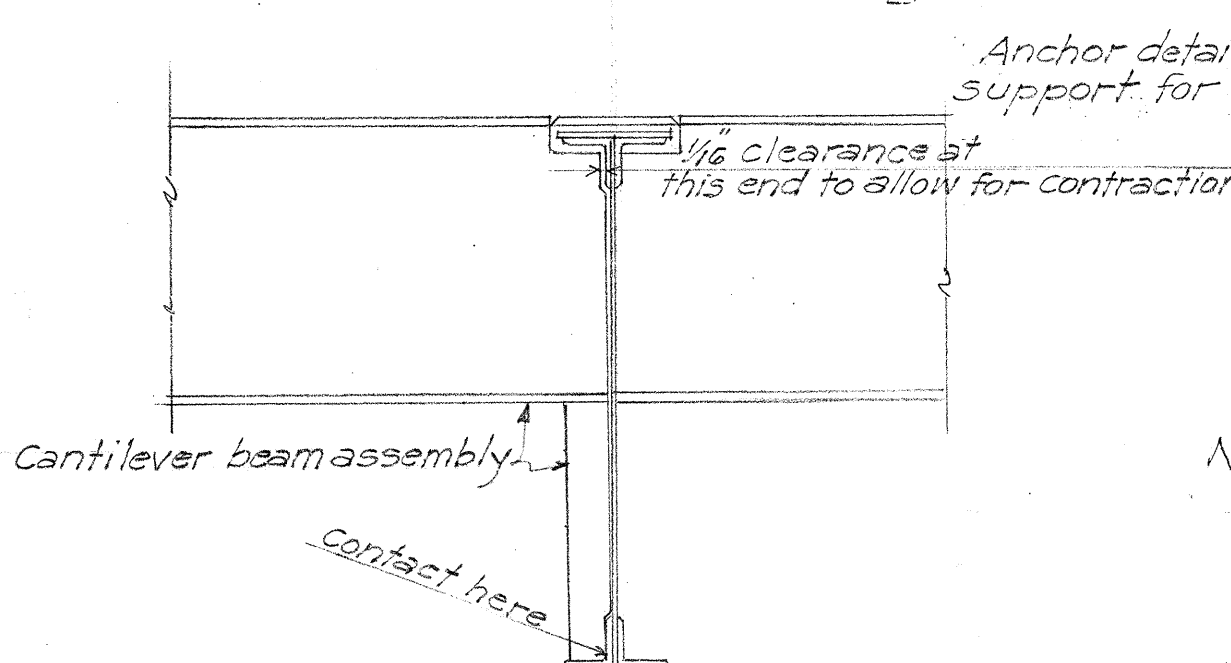
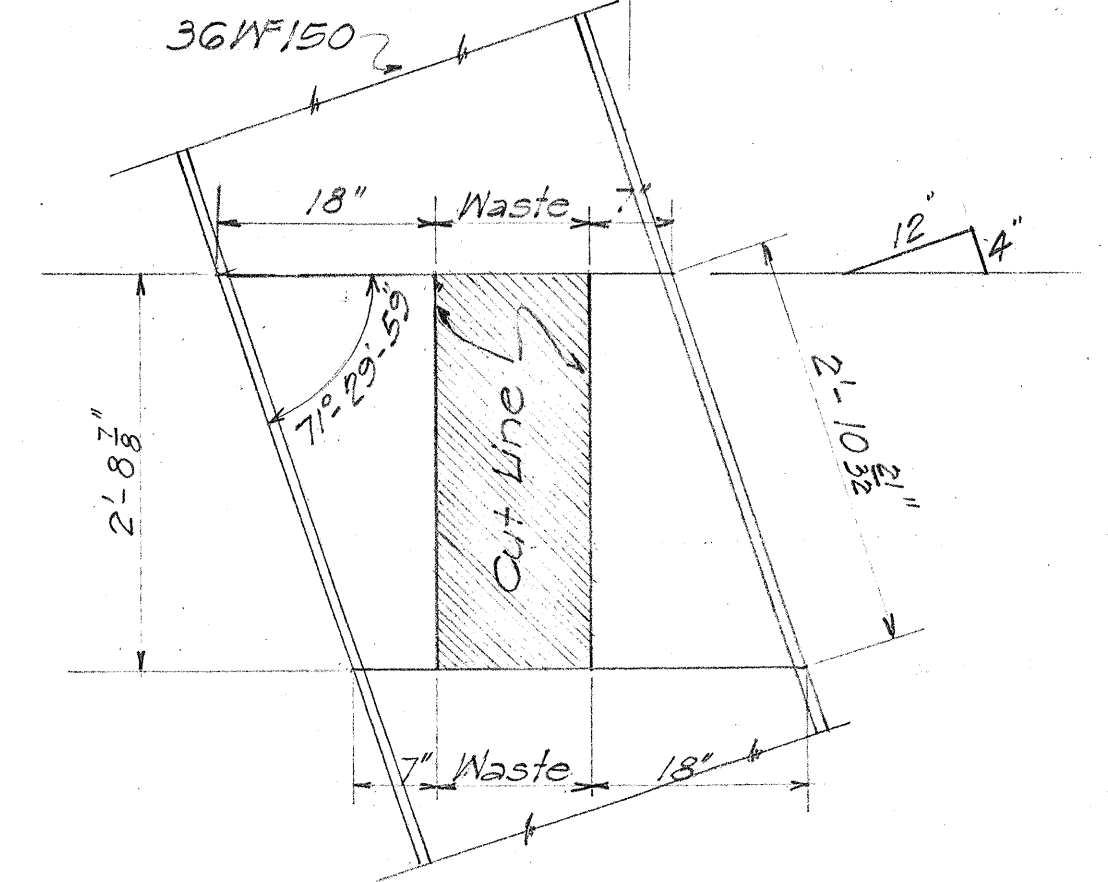
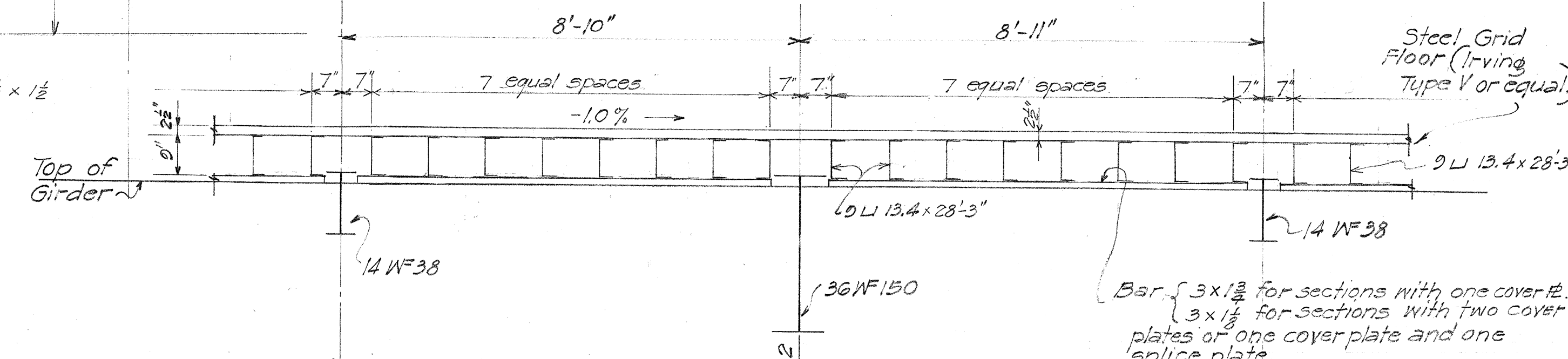
5372.141

SURVEY PLOTTED BY: R. B. B. DATE: Dec. 1948
DRAWN BY: R. B. B.
CHECKED BY: R. B. B.
ORIGINAL PLAN NO. 12
NOTE BOOK NO. 12

Note! All unbacked single bevel welds to have root back-chipped and re-welded.

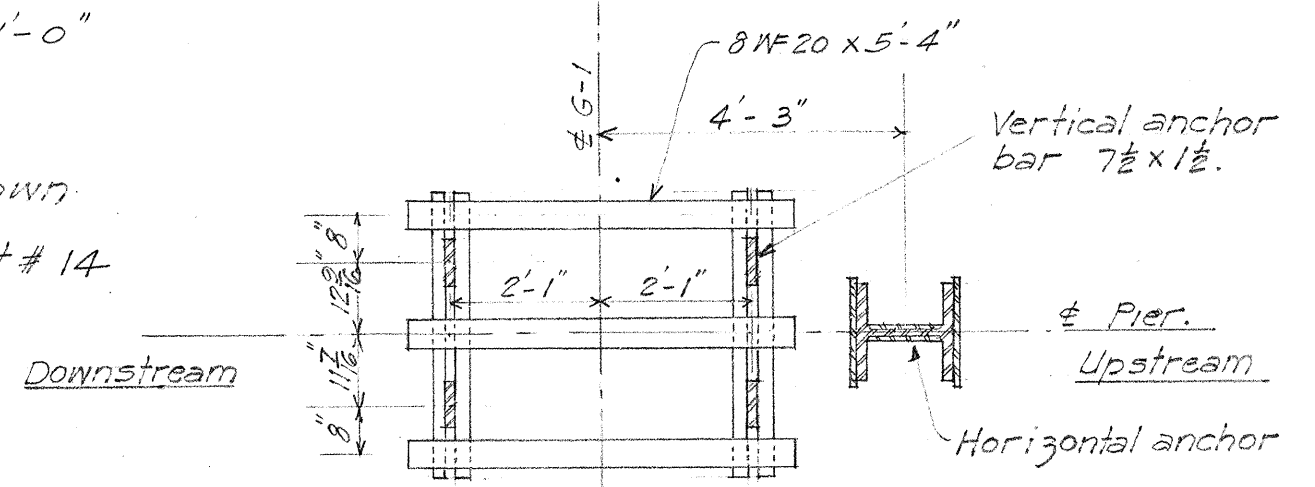


SUGGESTED METHOD OF HOLDING CANTILEVER BEAM ASSEMBLY IN PLACE PRIOR TO WELDING. See corresponding sketch on this sheet.



ANCHOR DETAILS - PIERS #1 AND #4
Scale: 1" = 1'-0"

Note! For Detail A and all sections not shown on this sheet see corresponding sections shown for Piers #2 and #3, sheet # 14

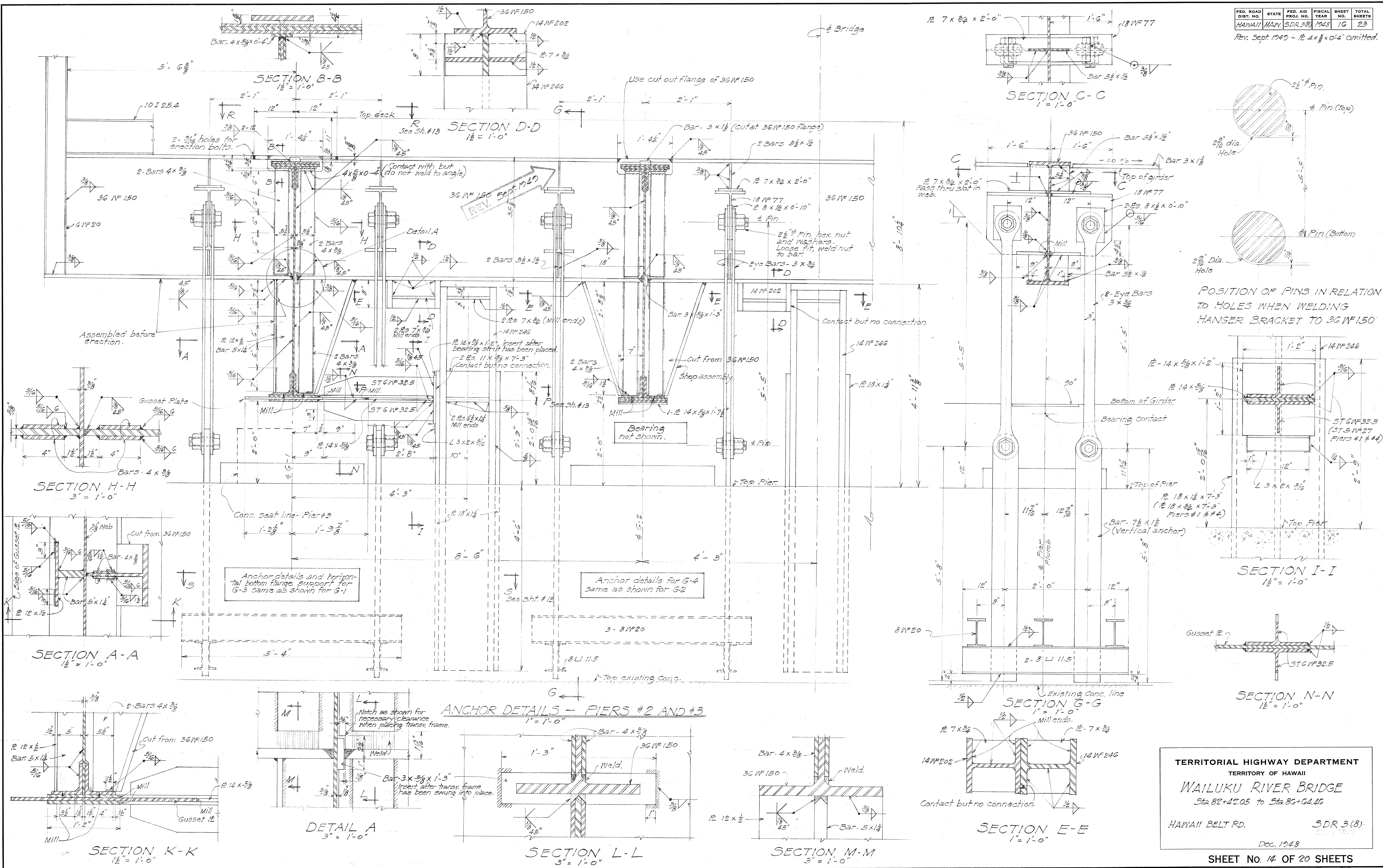


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WAILUKU RIVER BRIDGE
Sta 82+42.05 to Sta 86+64.46
HAWAII BELT RD. SDR 3(8)

Dec. 19
SHEET NO. 13 OF 20 SHEETS

ORIGINAL PLAN
NOTE BOOK
No.

5372.15



SURVEY PLOTTED BY: [Signature]
 DRAWN BY: [Signature]
 TRACED BY: [Signature]
 QUANTITIES CHECKED BY: [Signature]
 DATE: [Date]
 ORIGINAL PLAN NOTE BOOK NO. [Number]

5372.16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	SDR 3(8)	1948	18	23

NOTE: Rivet spacings at panel points revised in accordance with fabricator's requirements.

10 x 5/8 x 2'-2" Gusset Pl. changed to 13 x 5/8 x 2'-2" as shown.

Revised Aug. 1949

REV. Aug. 1949

Symmetrical about C

106'-0" to Pier #2

ALL GUSSET PLATES 5/8 THICK.

BOTTOM FLANGE BRACING - SPAN PIER NO. 1 - PIER NO. 2

(Shown looking up)

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

WAILUKU RIVER BRIDGE

Sta. 82+42.05 to Sta. 86+64.40

HAWAII BELT RD.

SDR 3(8)

Dec. 1948

SHEET NO. 18 OF 20 SHEETS

5372.18

SURVEY PLOTTED BY	DATE
ST. 100	Dec. 1948
DRAWN BY	
TRACED BY	
QUANTITIES CHECKED BY	
CHECKED BY	
NOTE BOOK NO.	

NOTE: Rivet spacings at panel points revised in accordance with fabricator's requirements.

NOTE: Rivet spacings at panel points revised in accordance with fabricator's requirements.



MAILED 11/15/54

5372.19

ORIGINAL PLAN	NOTE BOOK No.
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	SDR 3(8)	1948	20	23

Rev. Aug. 1949

REV. Aug. 1949

NOTE: Rivet spacings at panel points revised in accordance with fabricators requirements.

Symmetrical about ϵ

ϵ Bridge

MATCH LINE

BOTTOM FLANGE BRACING
PIER NO. 2 - PIER NO. 3

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WAILUKU RIVER BRIDGE
Sta 82+42.05 to Sta 86+64.46
HAWAII BELT RD. SDR 3(8)
Dec. 1948

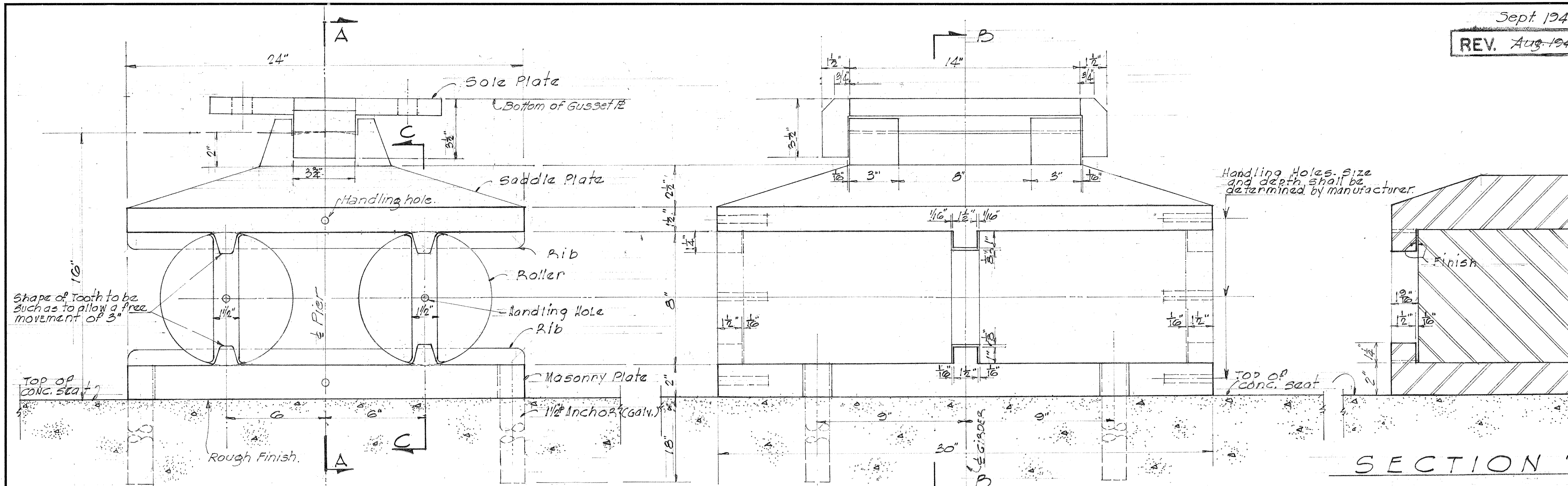
SHEET No. 18 OF 20 SHEETS

5372.20

SURVEY PLOTTED BY	DATE
DESIGNED BY	12-1948
TRACED BY	
QUANTITIES BY	
CHECKED BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	

SURVEY PLOTTED BY: *W. J. ...*
 DATE: *10/12/48*
 DRAWN BY: *W. J. ...*
 TRACED BY: *W. J. ...*
 QUANTITIES CHECKED BY: *W. J. ...*
 NOTE BOOK: *...*
 No. *...*



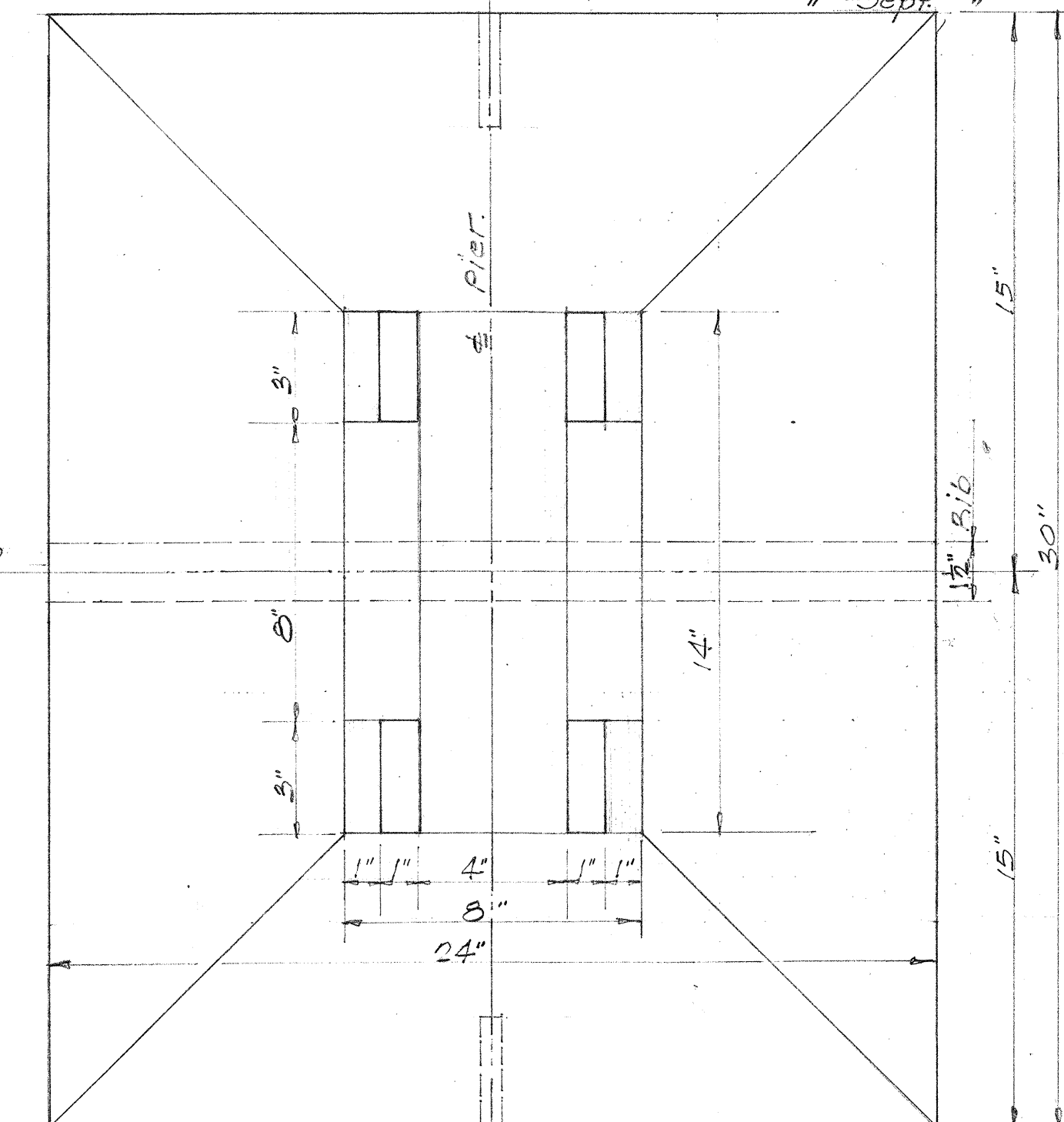
SIDE ELEVATION

END ELEVATION

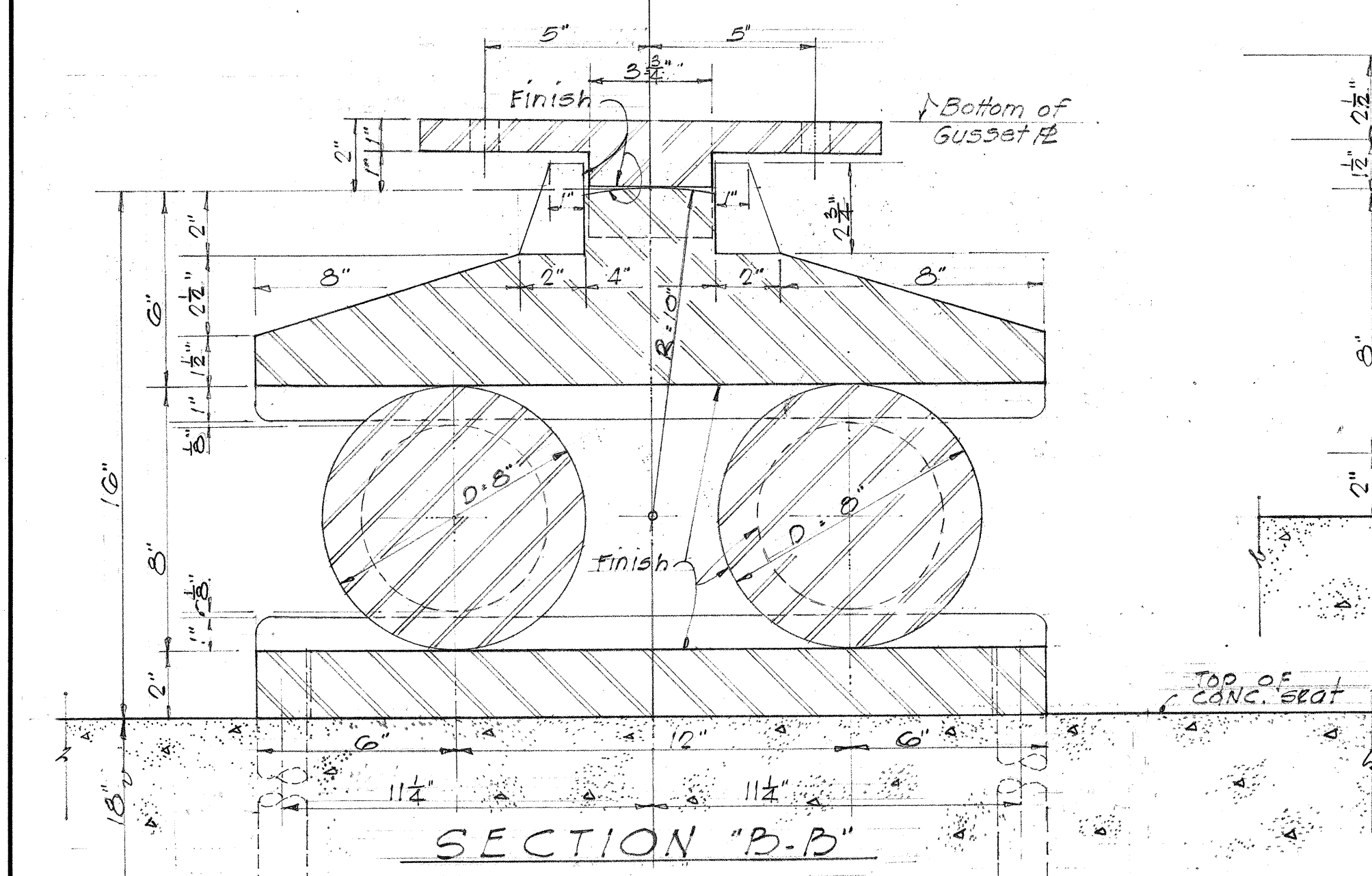
Sept 1949
 REV. Aug 1949

NOTE: Bottom Chord rivet spacings
 at piers changed.

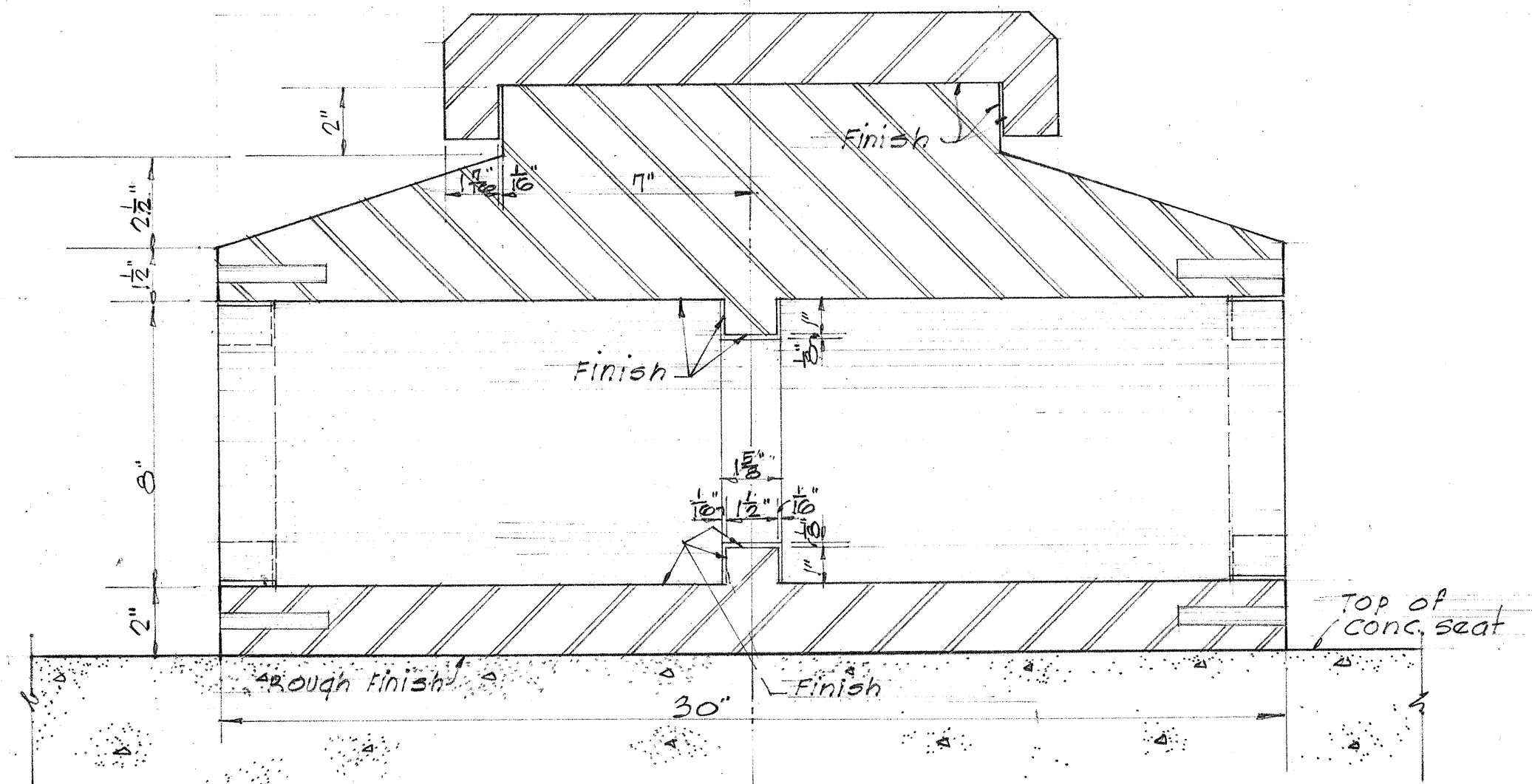
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	SDR 3(8)	1948	21	23



PLAN - SADDLE PLATE



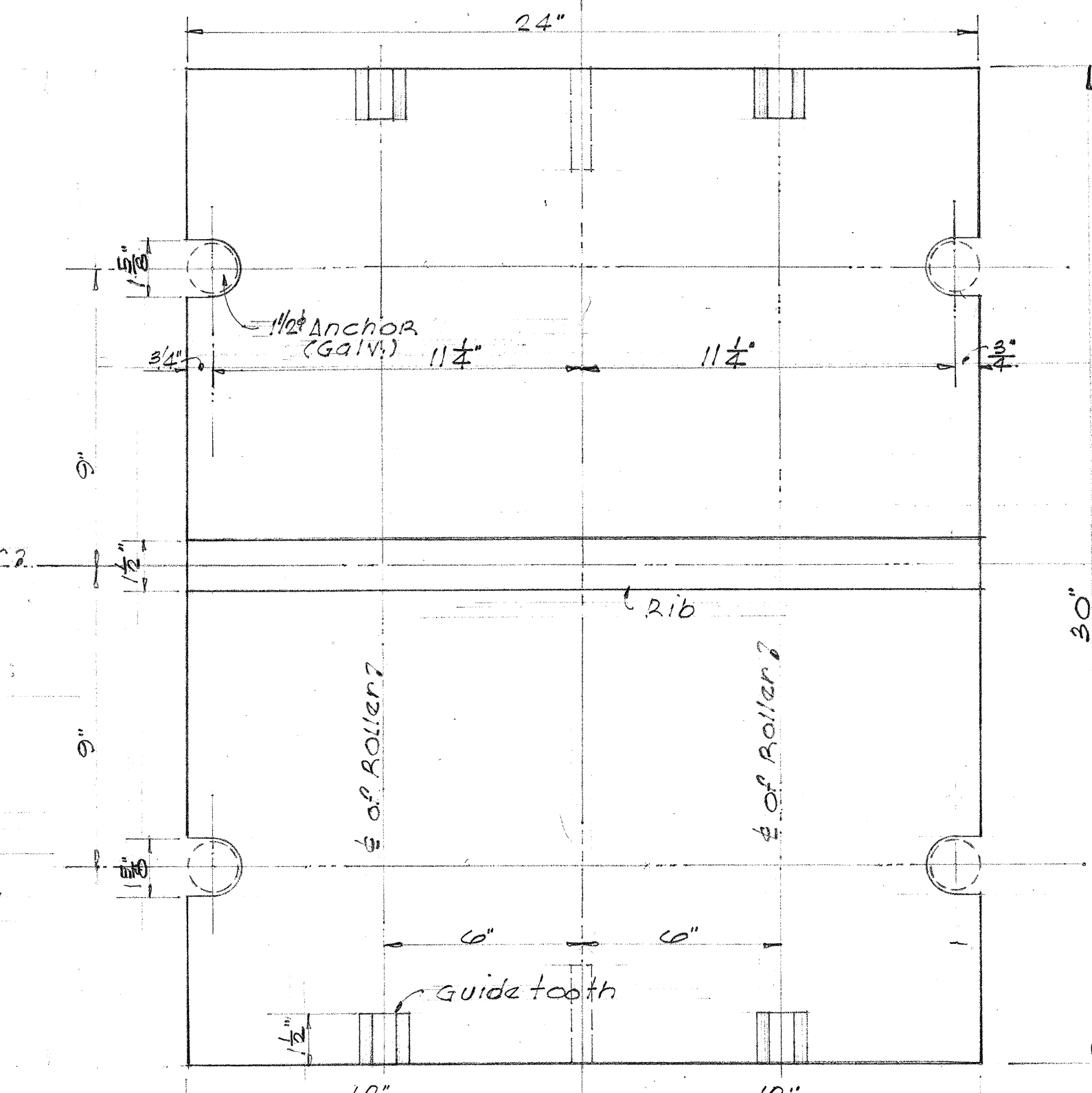
SECTION "B-B"



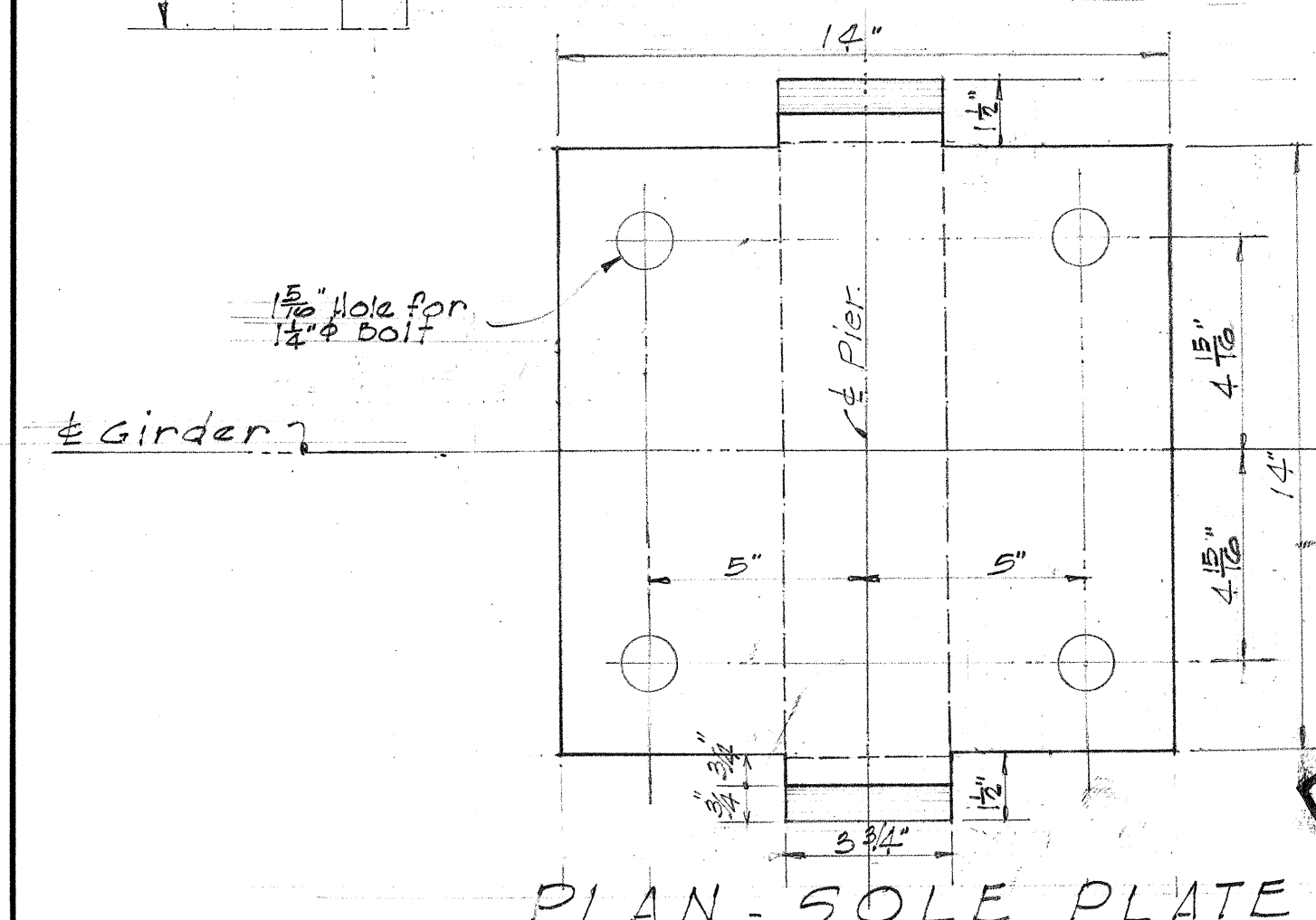
SECTION "A-A"

MATERIALS

All plates for pier bearings shall be Carbon Steel castings, A.S.T.M. Designation: A27 (Grade B-1).
 Rollers shall be structural carbon steel, A.S.T.M. Designation: A225 (Class C-1). They shall be accurately turned to the dimension shown on the drawings & shall be straight, smooth, and free from flaws. They shall be forged & annealed.

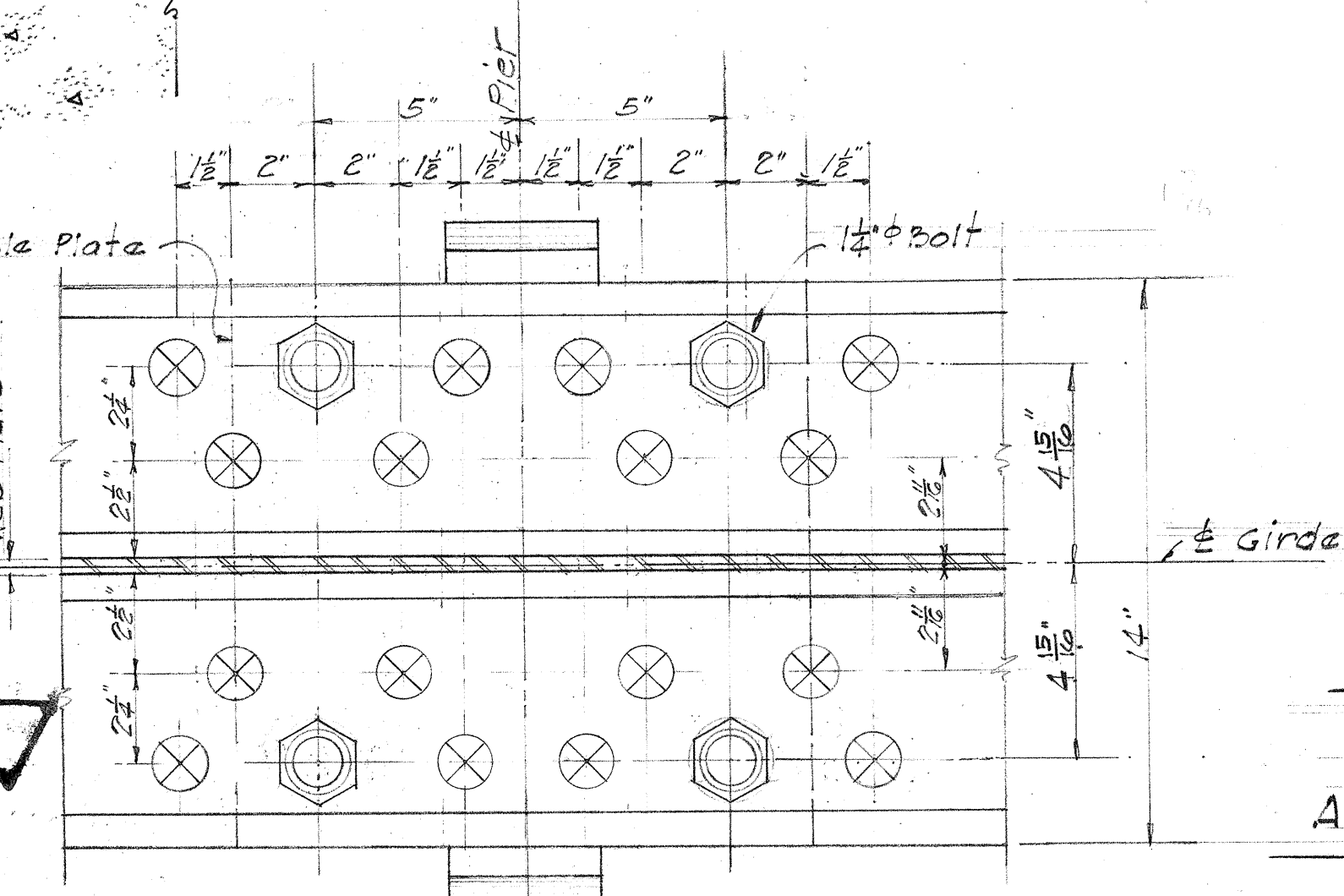


PLAN - MASONRY PLATE



PLAN - SOLE PLATE

Sept 1949
 REV. Aug 1949



PLAN OF BOTTOM FLANGE (SHOWN AT PIER #2)

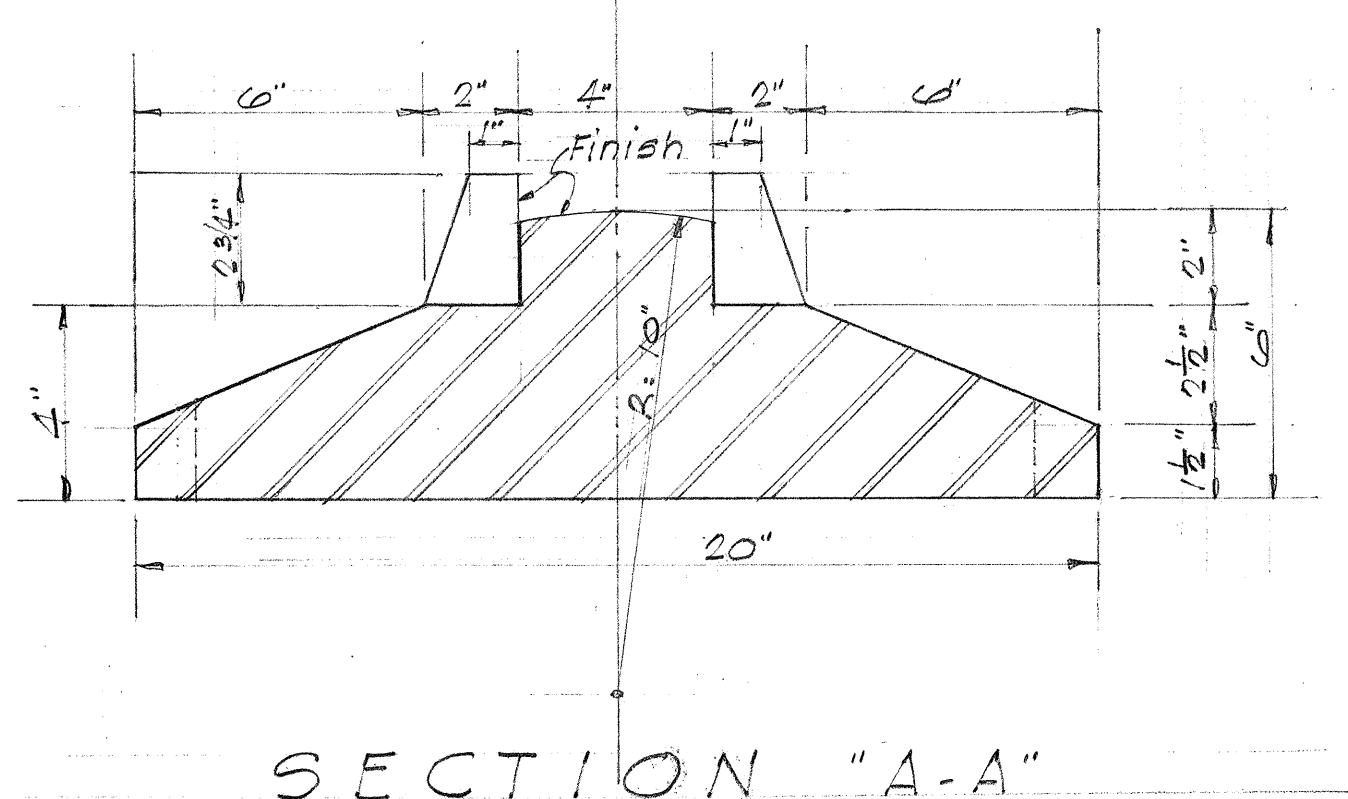
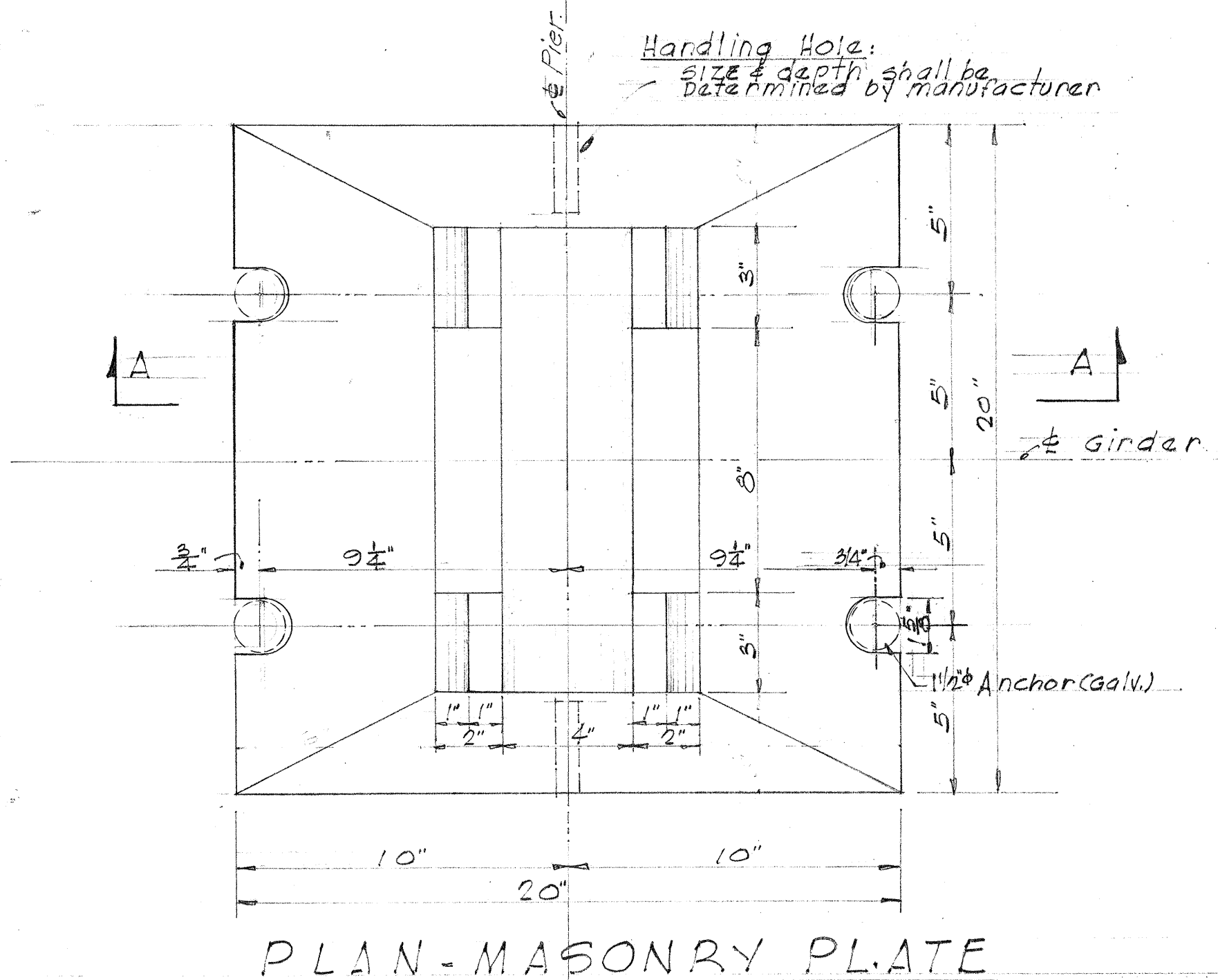
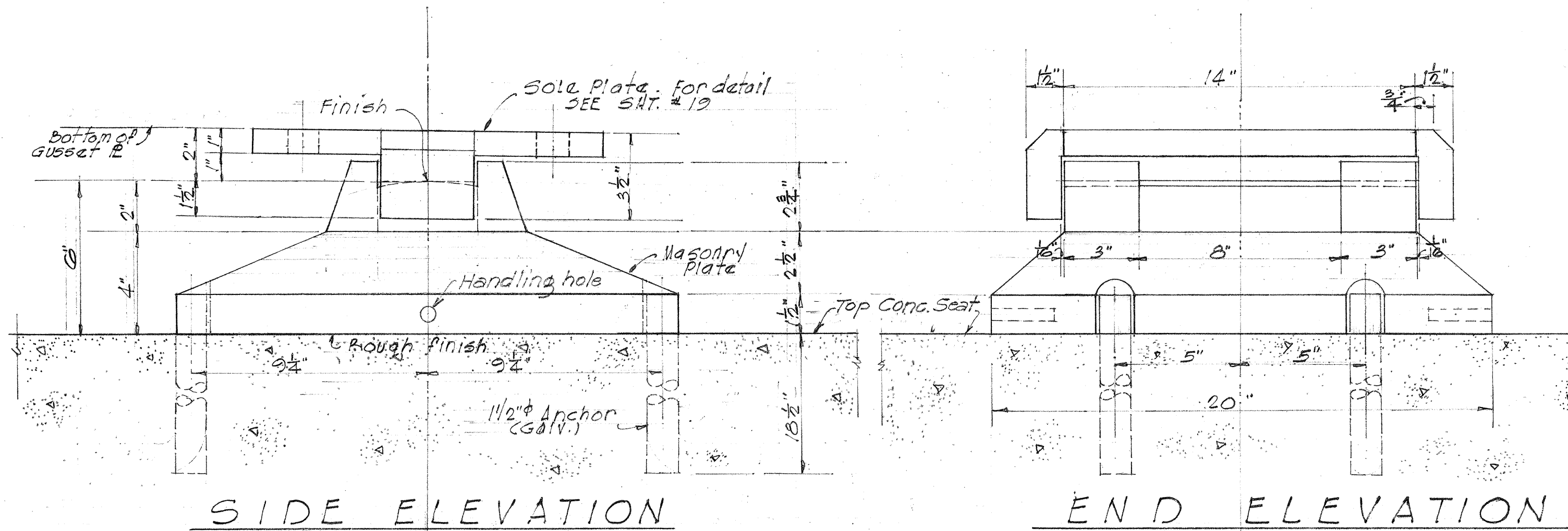
EXPANSION BEARING AT PIER NOS. 1, 2, 4.

SCALE: 3" = 1'-0"
 12 Sets required.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 WAILUKU RIVER BRIDGE
 Sta 82+42.05 to Sta 86+64.46
 HAWAII BELT RD. SDR 3(8)
 Dec. 1948

SHEET No. 19 OF 20 SHEETS

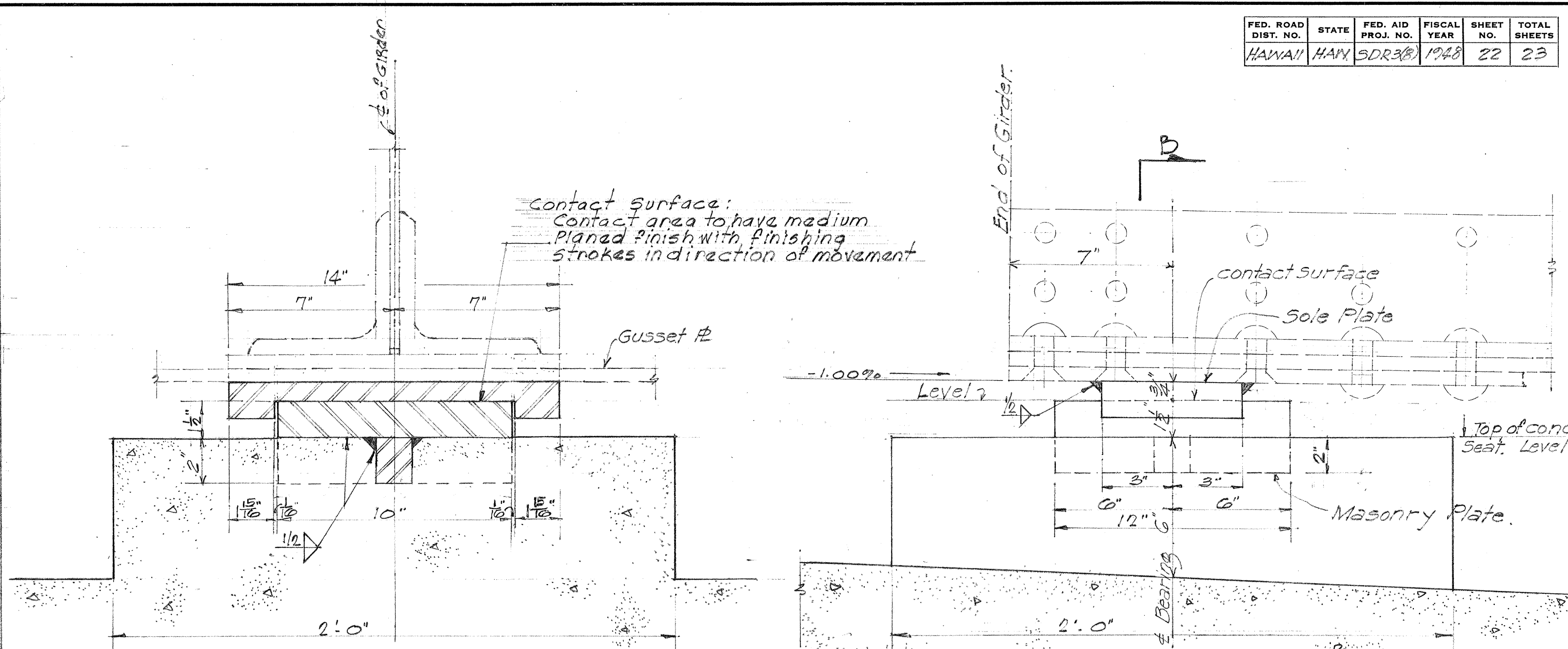
5372.21



FIXED BEARING AT PIER #3

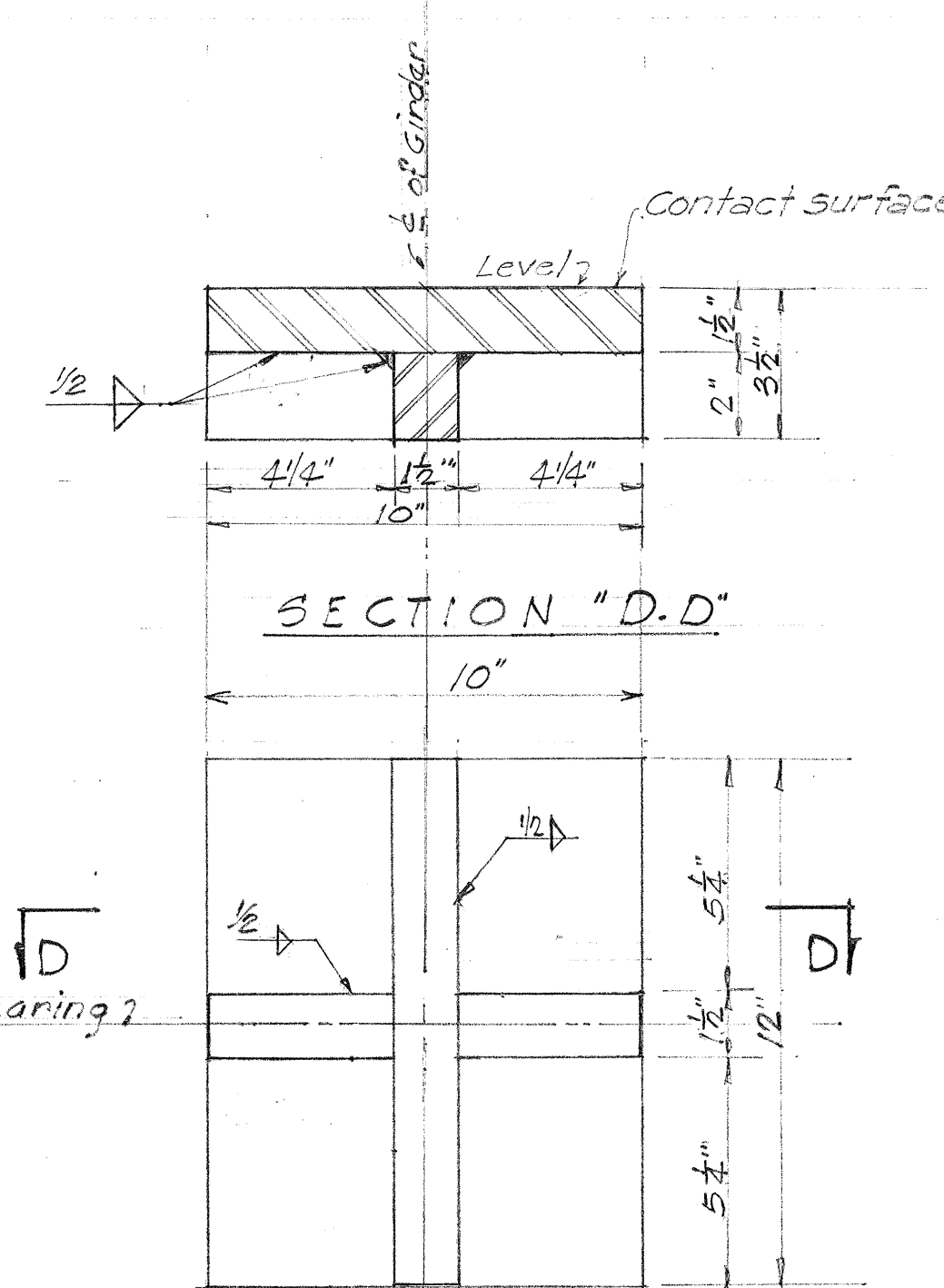
SCALE: 3" = 1'-0"

4 sets required.

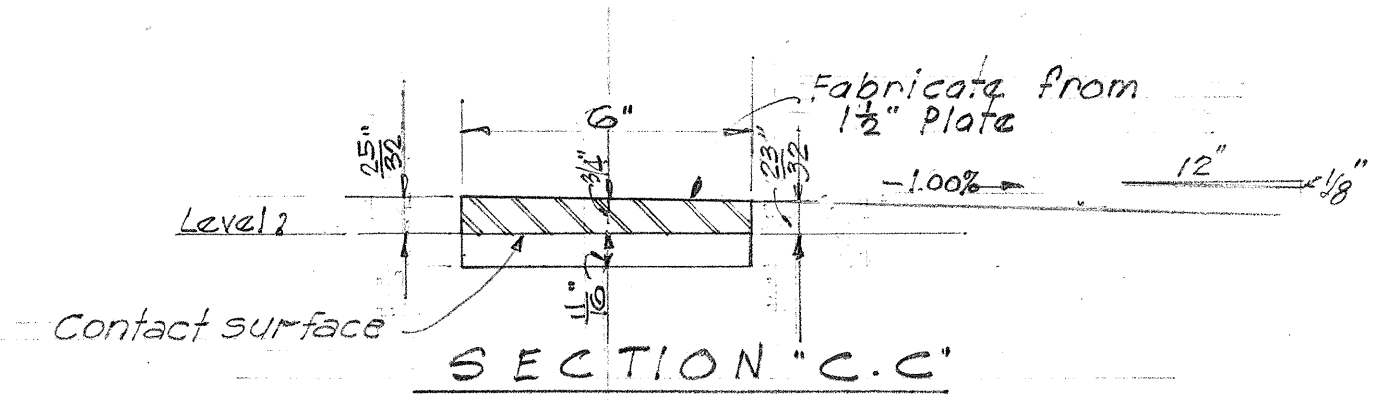
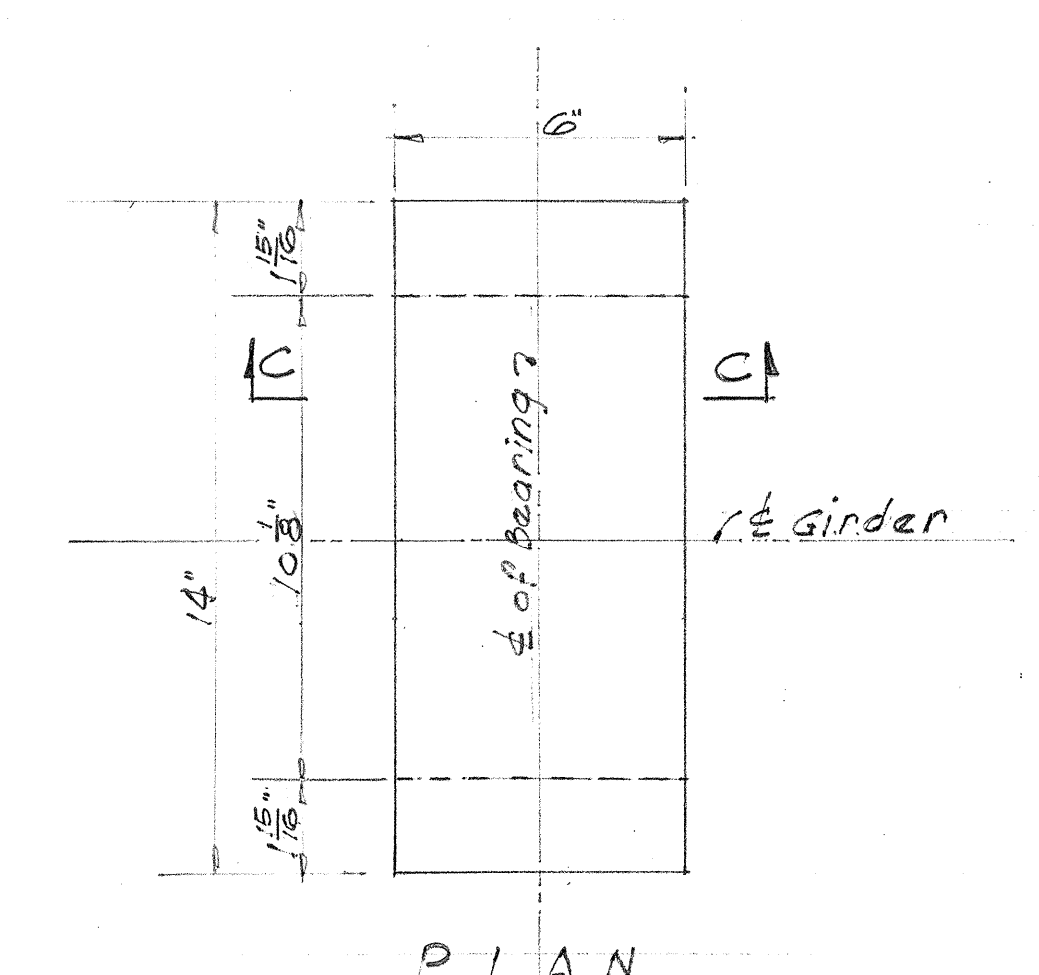


SECTION "B-B"

SIDE ELEVATION



DETAIL OF MASONRY PLATE



DETAIL OF SOLE PLATE

EXPANSION BEARING ON ABUTMENTS

SCALE: 3" = 1'-0"

8 sets required.

MATERIALS:

Bearing plates shall be structural carbon steel
A.S.T.M. Designation: A-7.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WAILUKU RIVER BRIDGE
Sta 82+42.05 to Sta 86+64.06
HAWAII BELT RD. SDR 3(8)
Dec. 1948

SHEET NO. 20 OF 20 SHEETS

5372.22

DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]