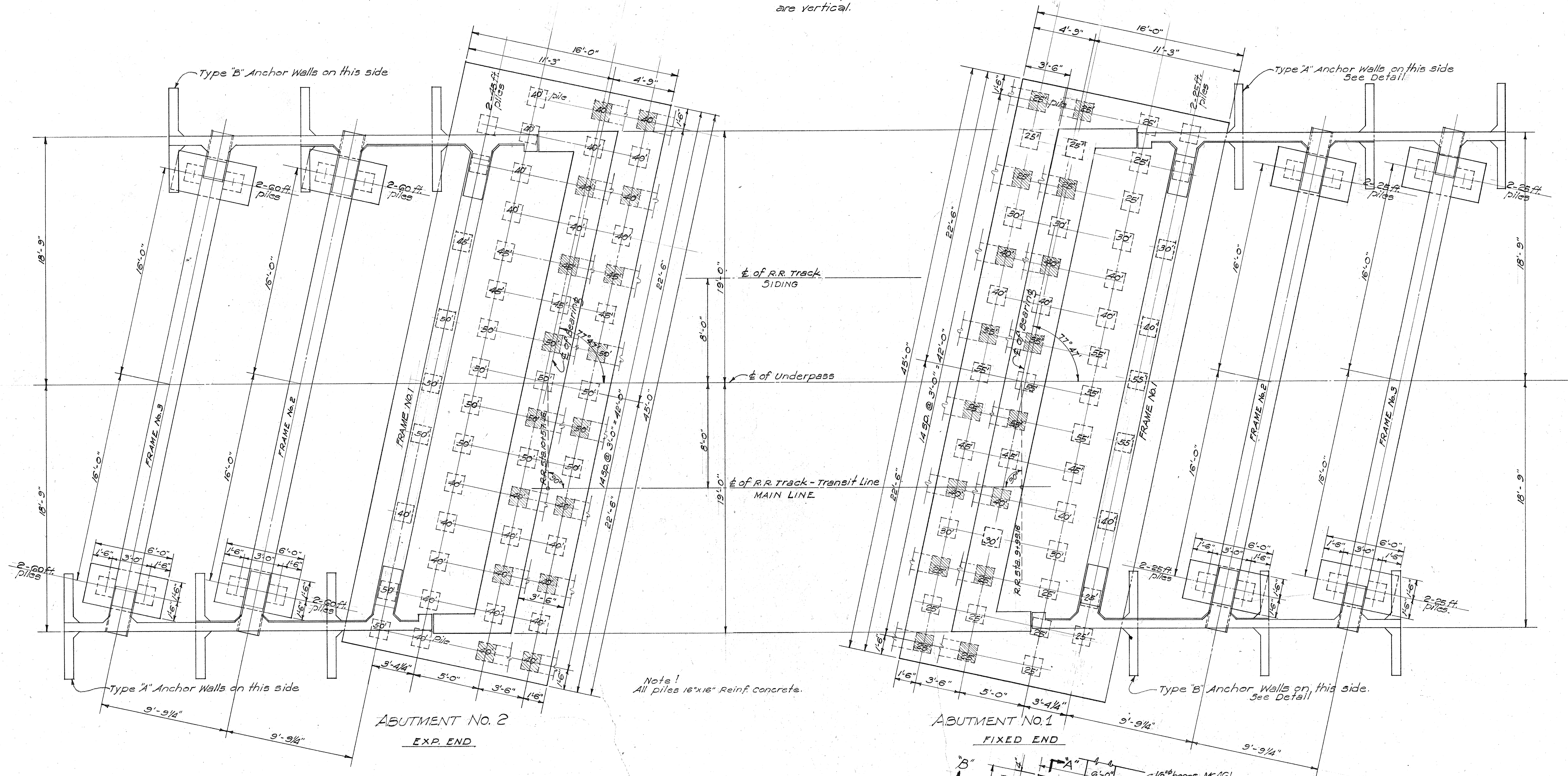


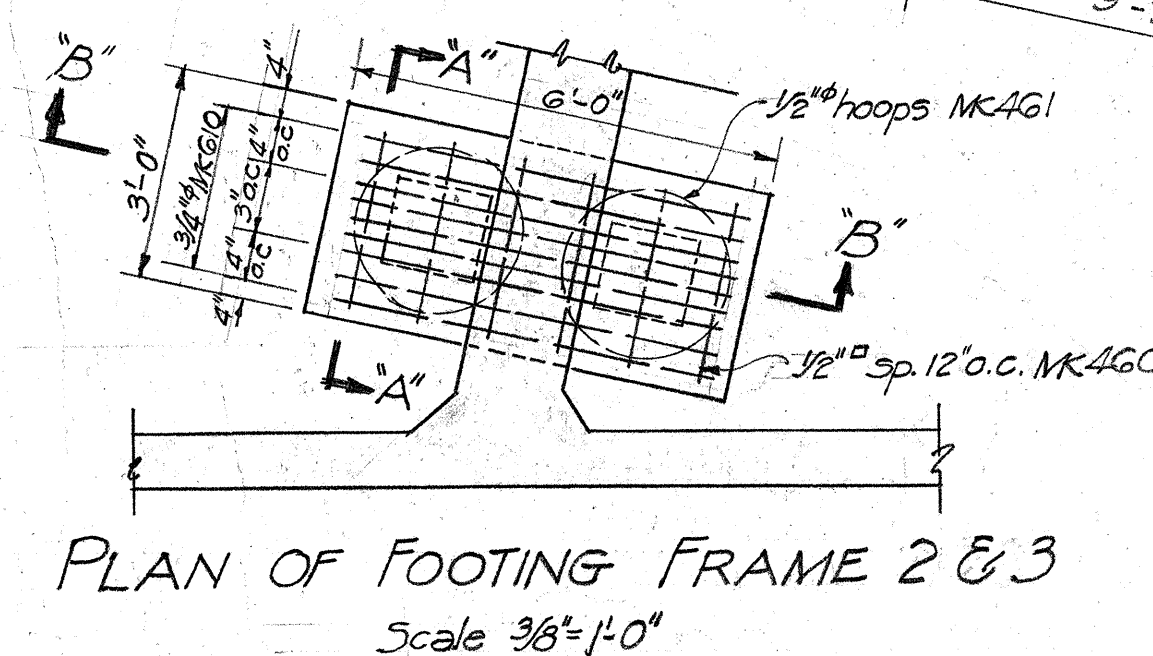
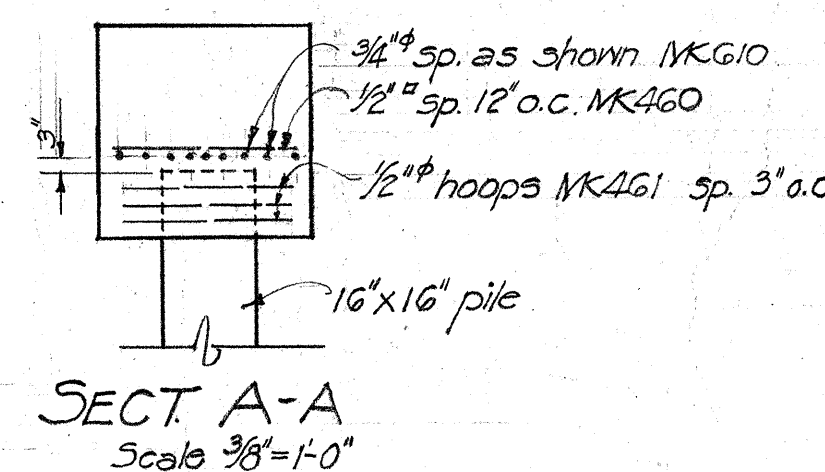
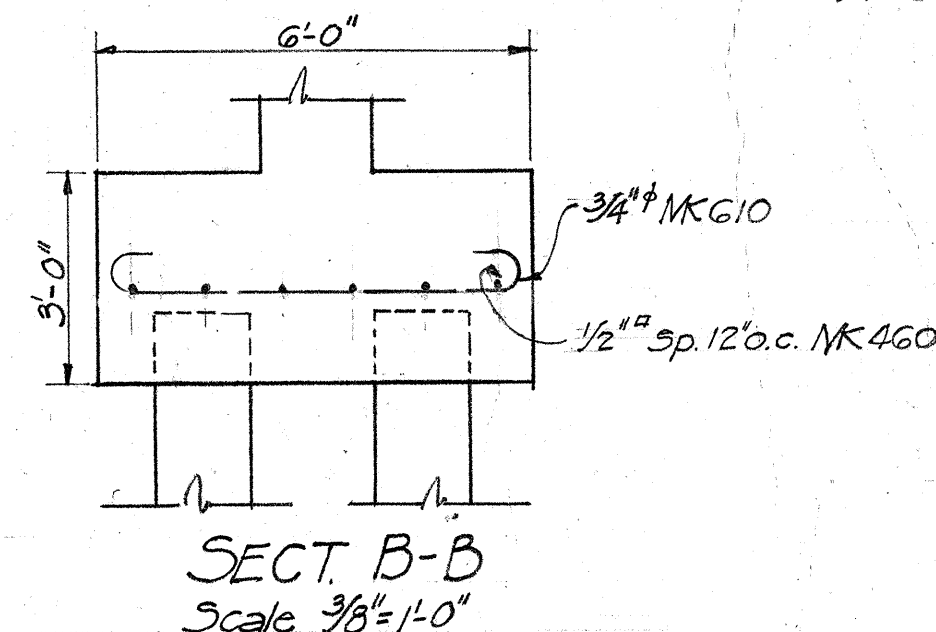
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F.A.G.H. 3520	1939	19	53

REVISED Feb 20, 1940

NOTE! Piles shown cross hatched are battered 4" per ft. all other piles are vertical.



FOOTING & PILE LAYOUT
1/2" Scale



Additional piles required due to revision Feb. 20, 1940
 1 pile 30ft. long
 3 " 40ft. "
 1 " 45ft. "
 3 " 50ft. "
 2 " 55ft. "

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
HIGHWAY UNDERPASS
 STA. 45+07.26
 WAIALUA-KAENA RD. F.A.G.H. 3520
 SEPT. 1939
 SHEET No 2 OF 14 SHEETS

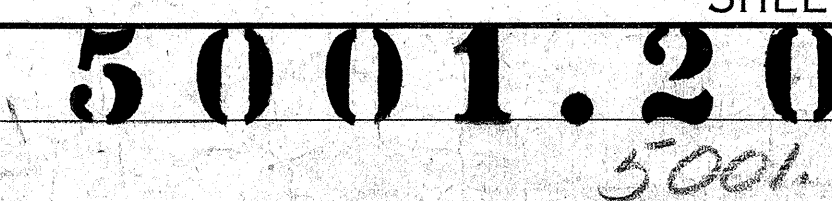
5001.19

5001.19

12

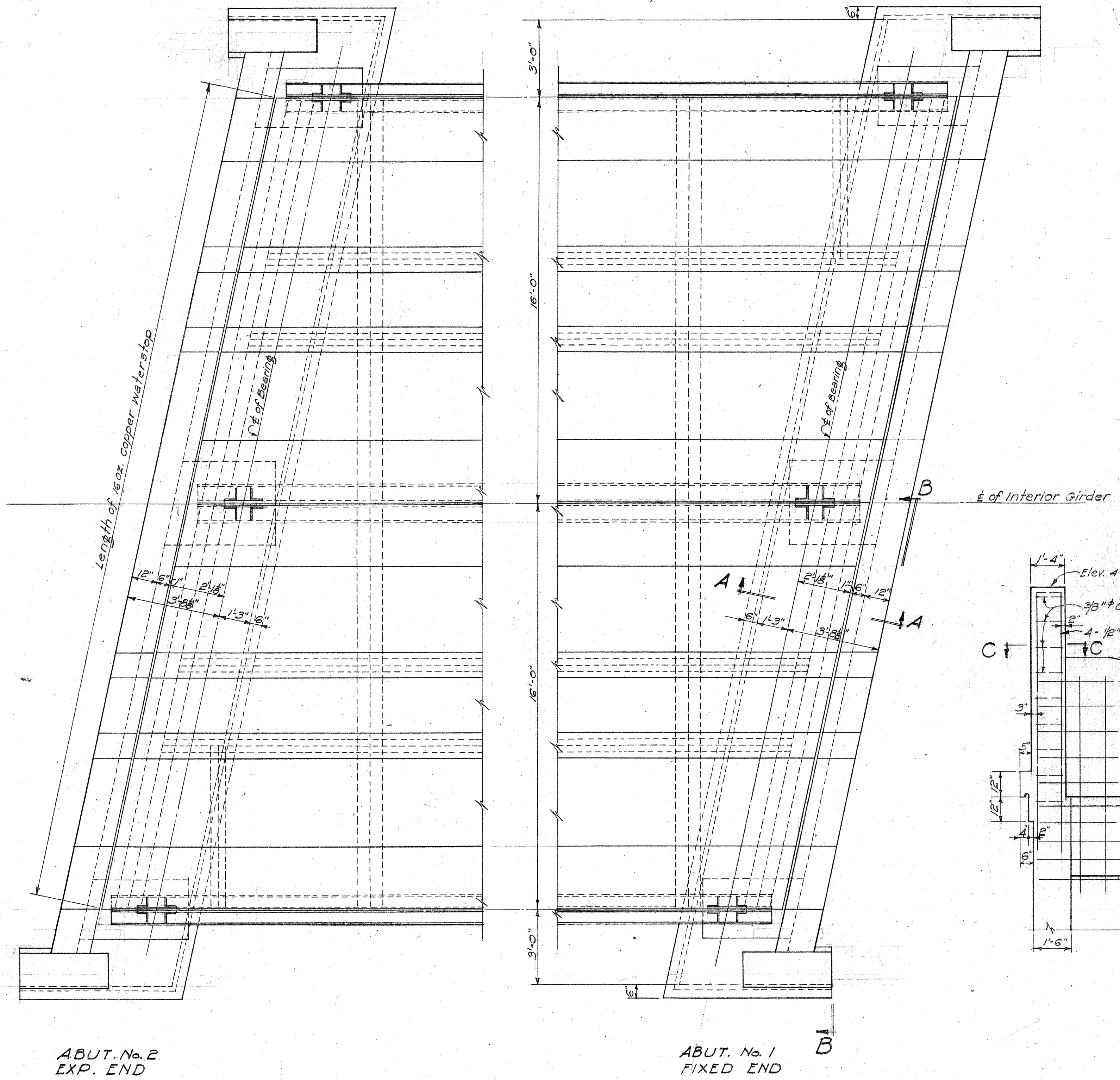
REVISION Feb. 20, 1940 Reinf. for footings frames 2 & 3 added. Abutment footing, one row of piles added. Number of batter piles reduced.

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	

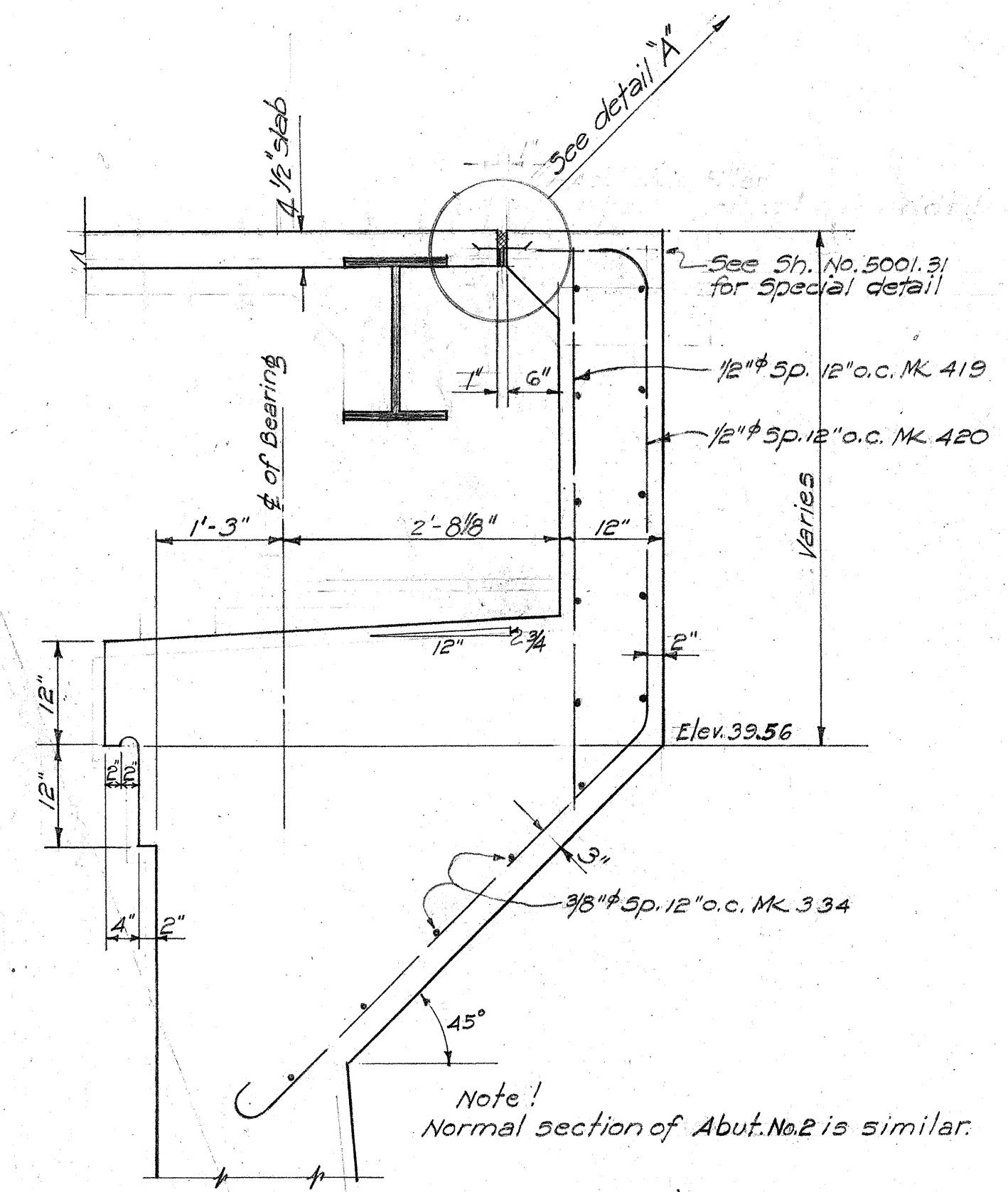


ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DESIGNED BY	"
	DRAWN BY	"
	TRACED BY	"
NOTE BOOK	QUANTITIES BY	"
	QUANTITIES CHECKED BY	"
N _o .	CHECKED BY	"

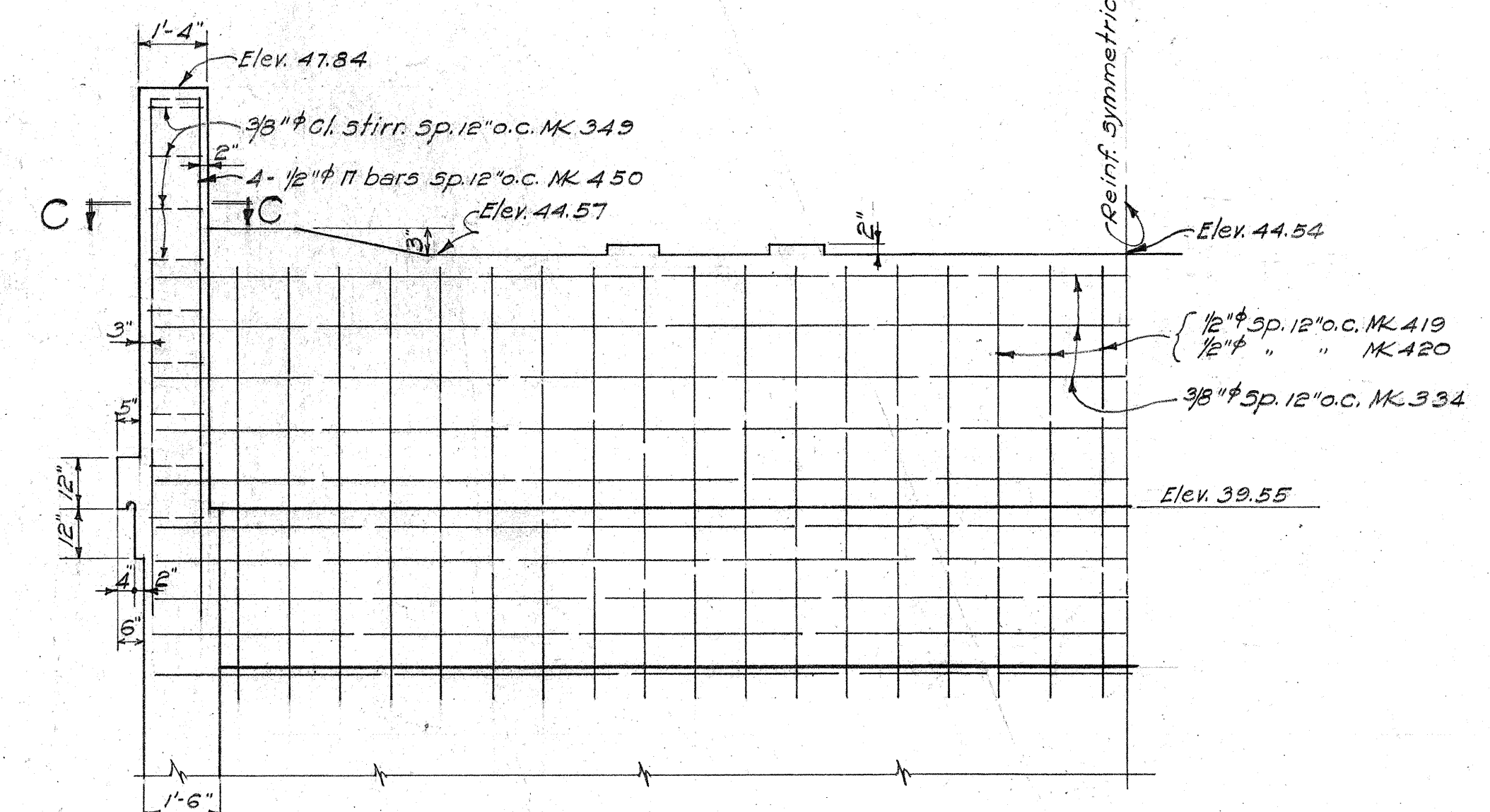
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	FAA H 300(1)	1939	21	53



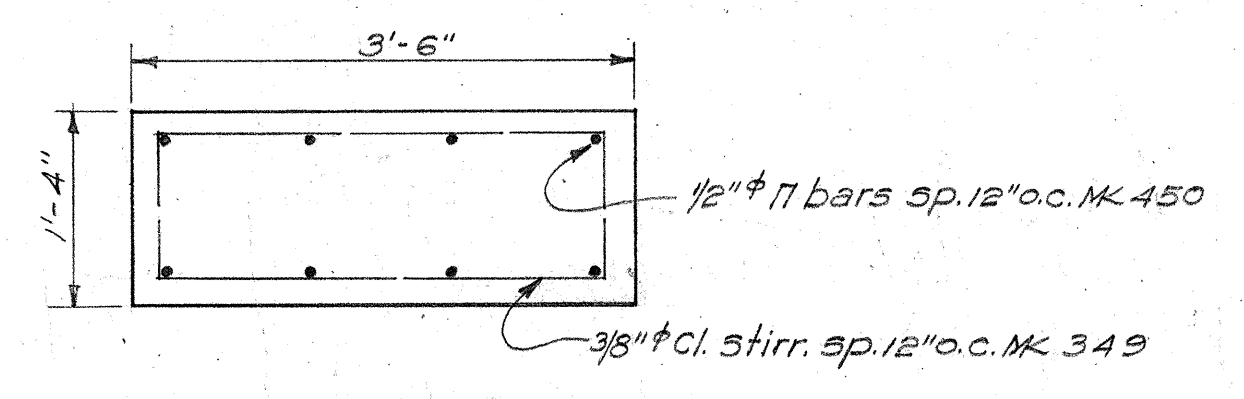
PART PLAN - END OF DECK
3/8" Scale



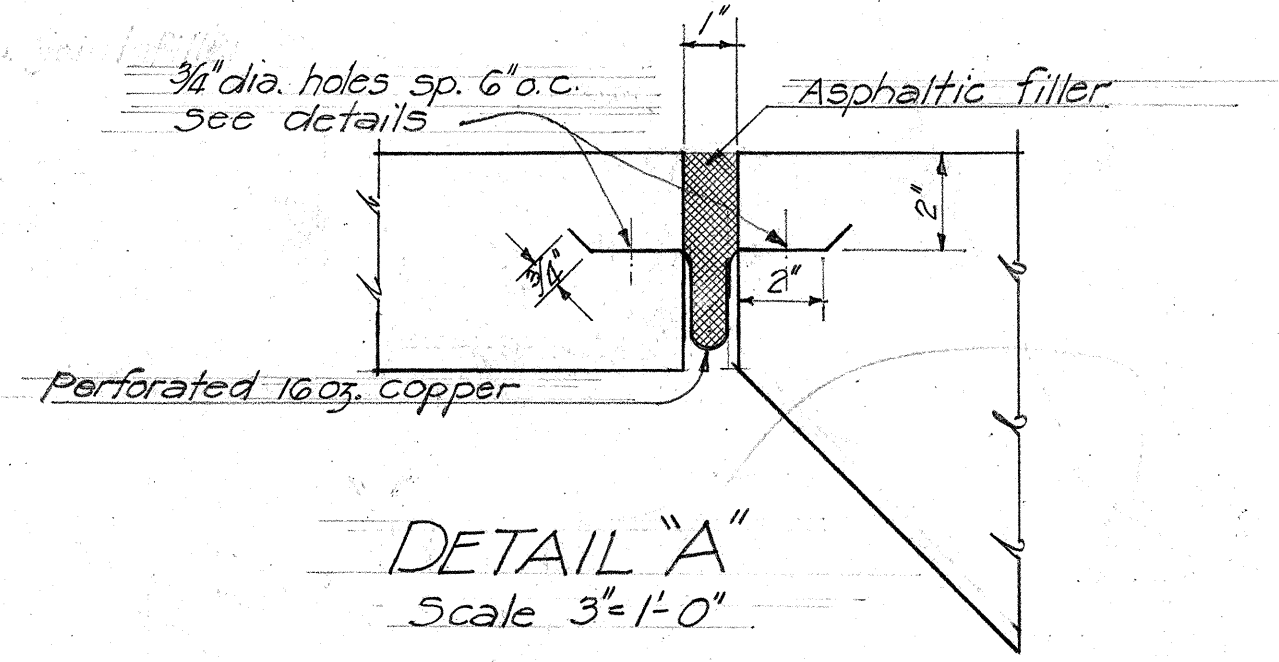
SECTION A-A
3/4" Scale



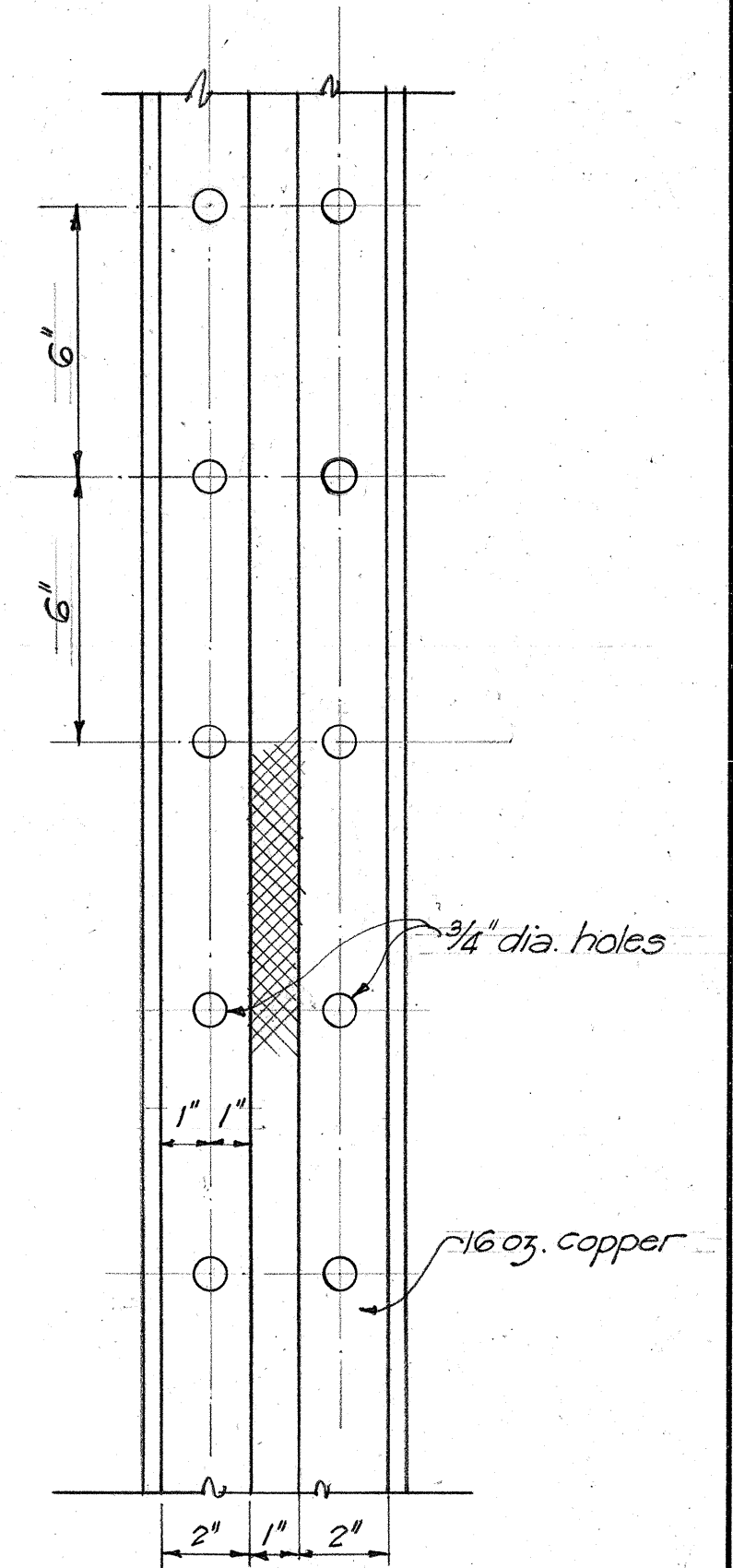
SECTION B-B
3/8" Scale



SECTION C-C
3/4" Scale



DETAIL "A"
Scale 3" = 1'-0"



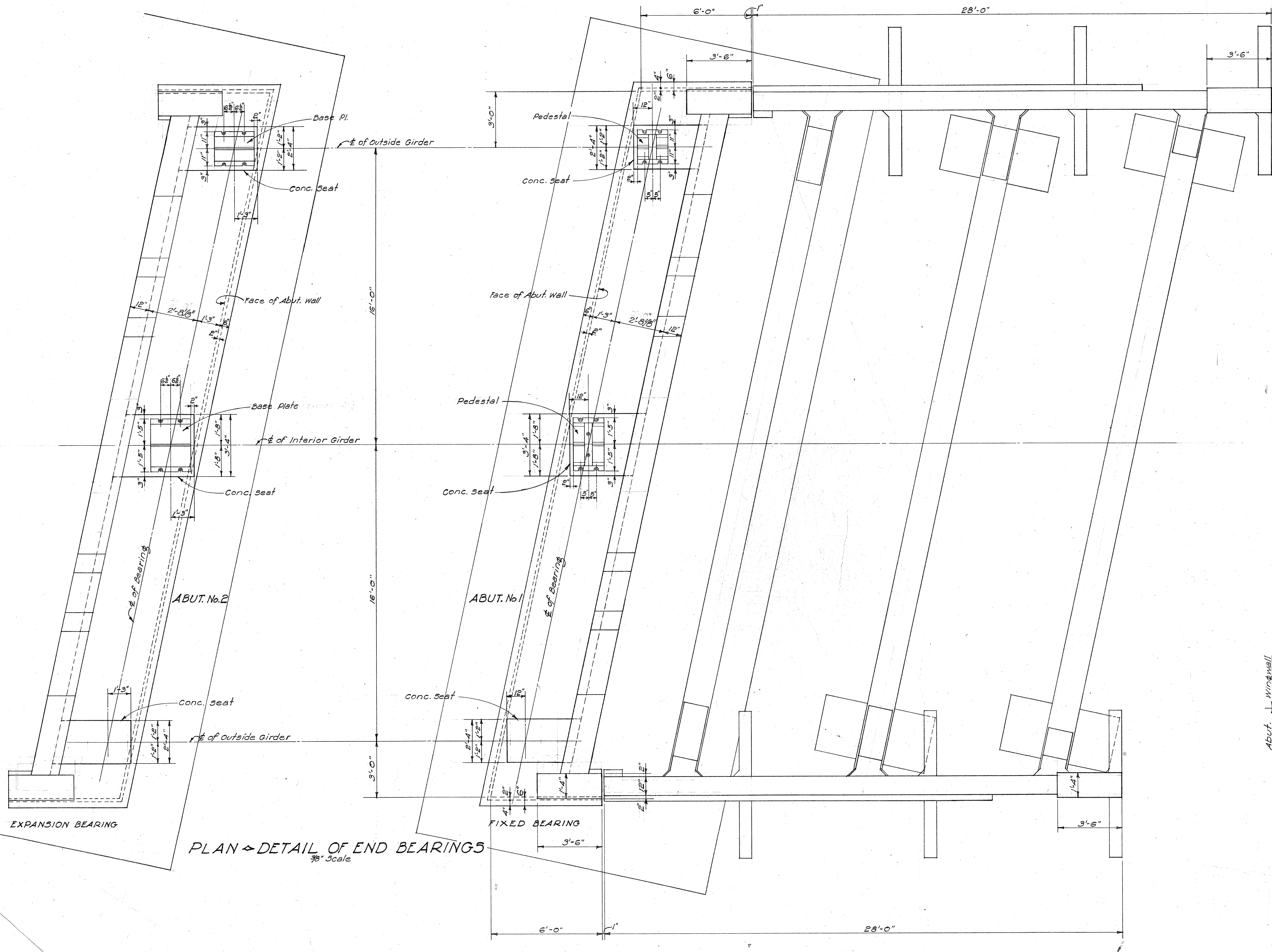
PLAN OF 16 OZ. COPPER
SHOWING PERFORATIONS
Scale 3 1/2" = 1'-0"

SURVEY PLOTTED BY	DATE
DESIGNED BY	1939
TRACED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

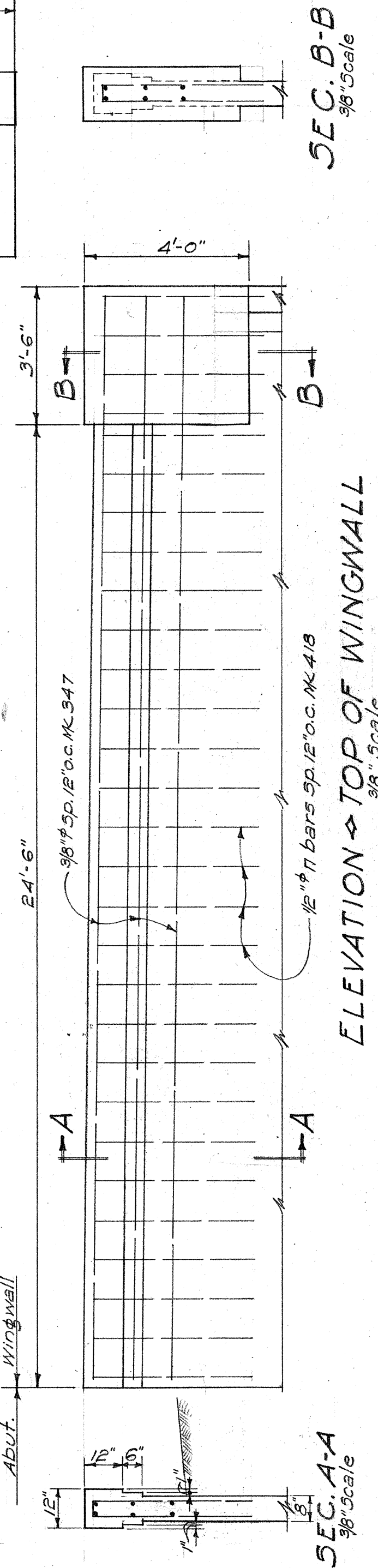
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY UNDERPASS
STA. 45+07.25
WAIALUA - KAENA RD. F.A.G.H. 35 B (1)
SEPT. - 1939.
SHEET No 4 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	1939	1939	22	58

SURVEY NOTED BY	DATE
DESIGNED BY	
DRAWN BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



PLAN & DETAIL OF END BEARINGS
3/8" Scale



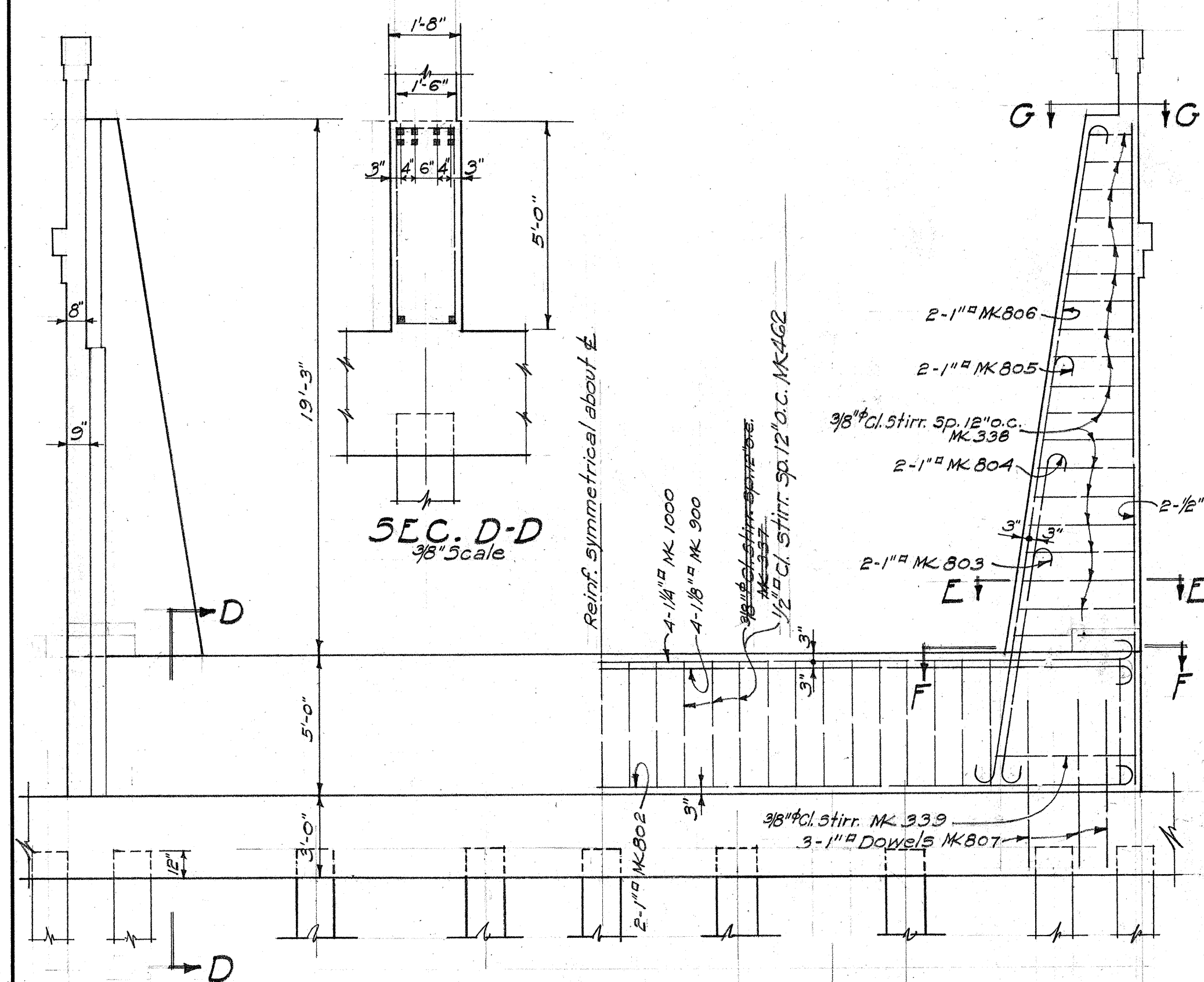
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY UNDERPASS
STA. 45+07.25
WAIALUA - KAENA RD. F.A.G.H. 35 B(1)
SEPT. - 1939
SHEET No 5 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	145H 3020	1939	24	52

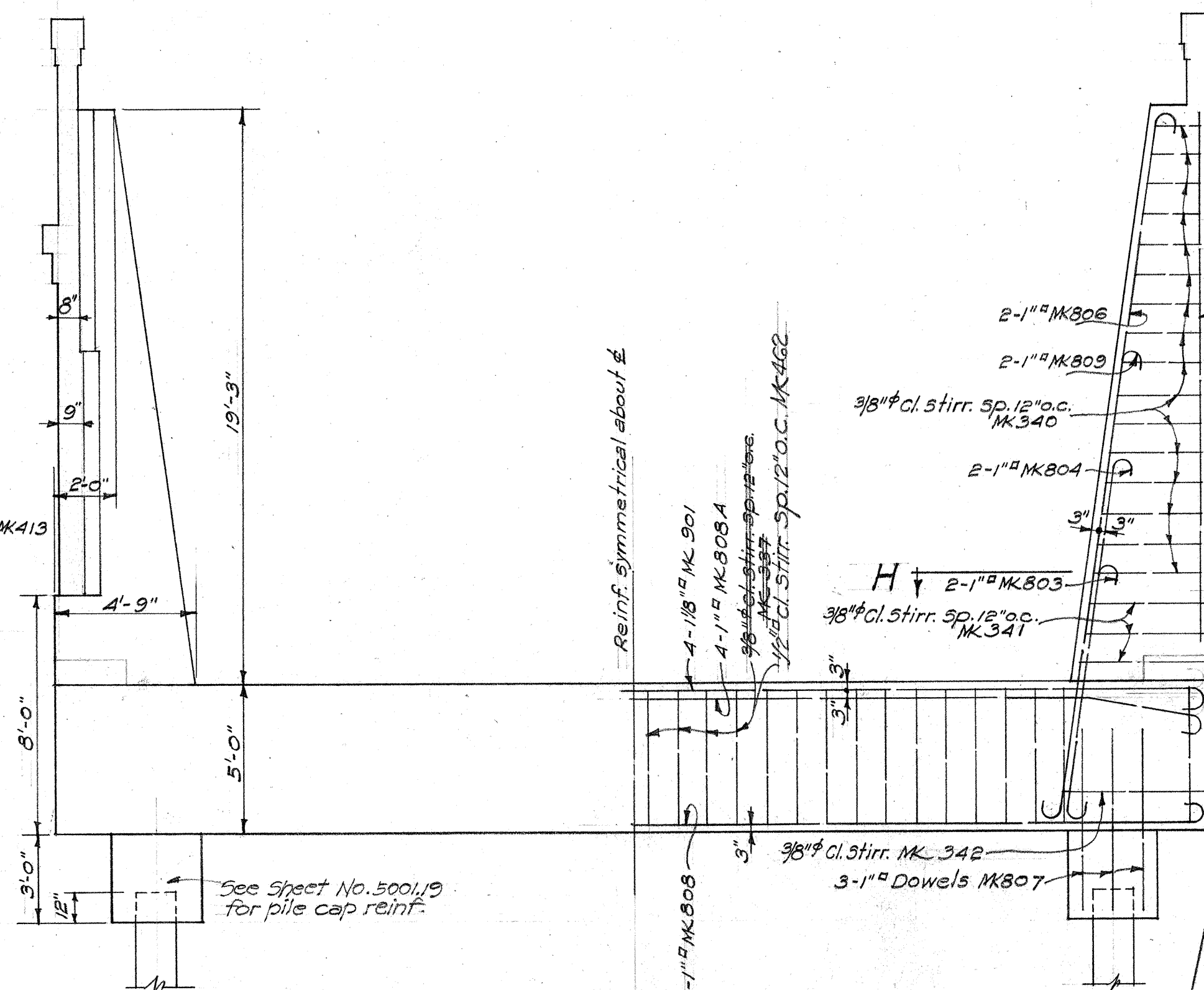
REVISED Feb. 20, 1940

REVISION: Feb. 20, 1940 3/8" bars MK 343 & 3/8" changed to 1/2" MK 402 & 403.

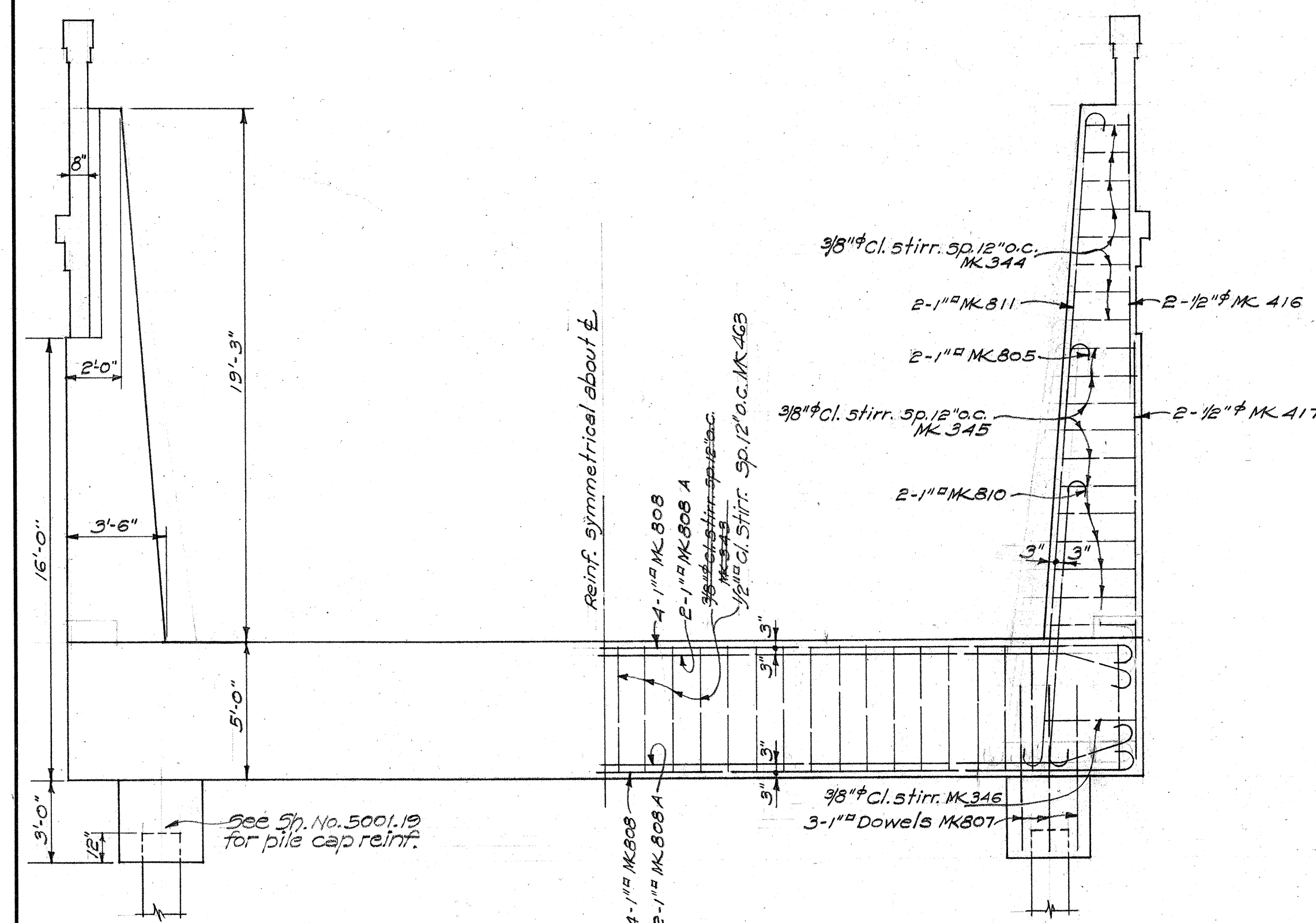
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



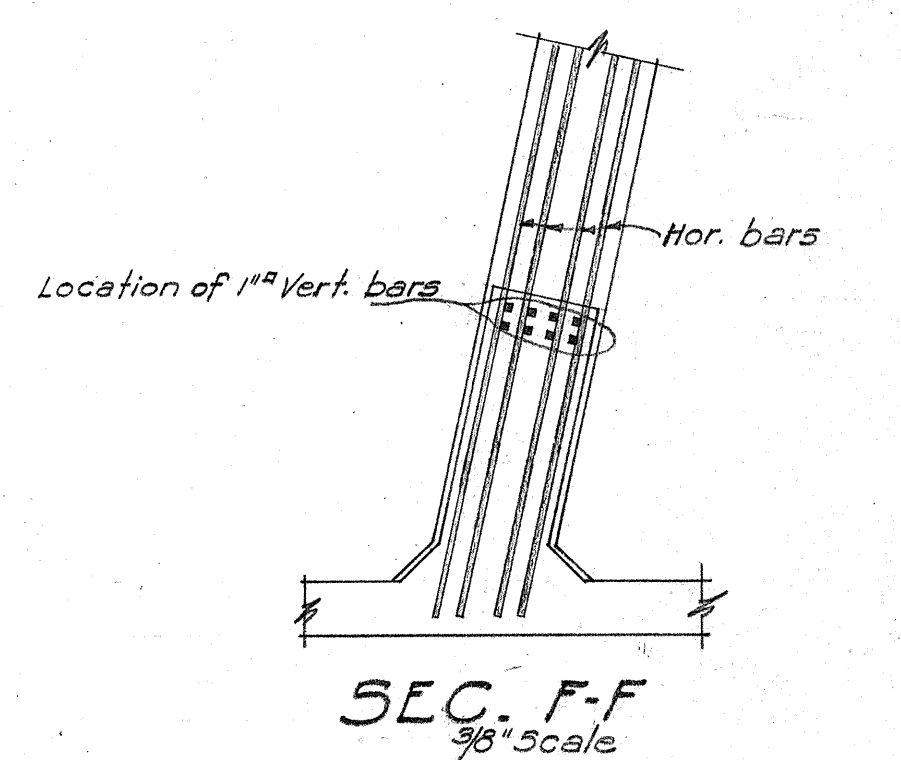
SECTION A-A FRAME No. 1
1/4" scale



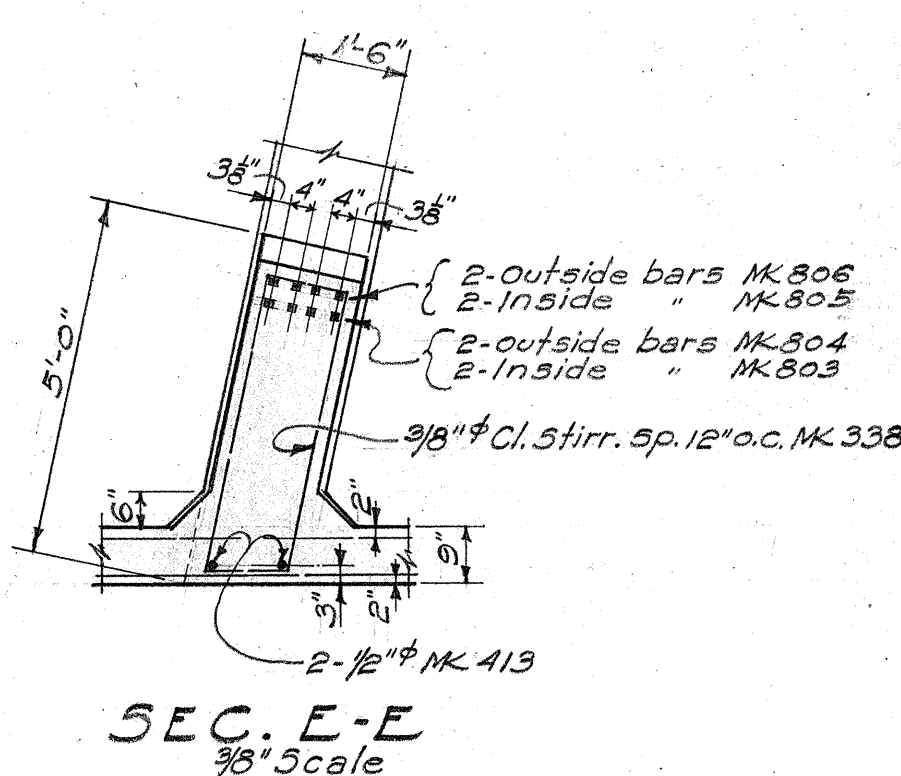
SECTION B-B FRAME No. 2
1/4" scale



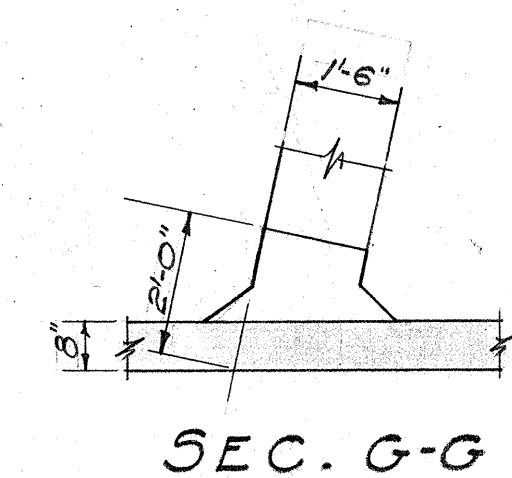
SECTION C-C FRAME No. 3
1/4" scale



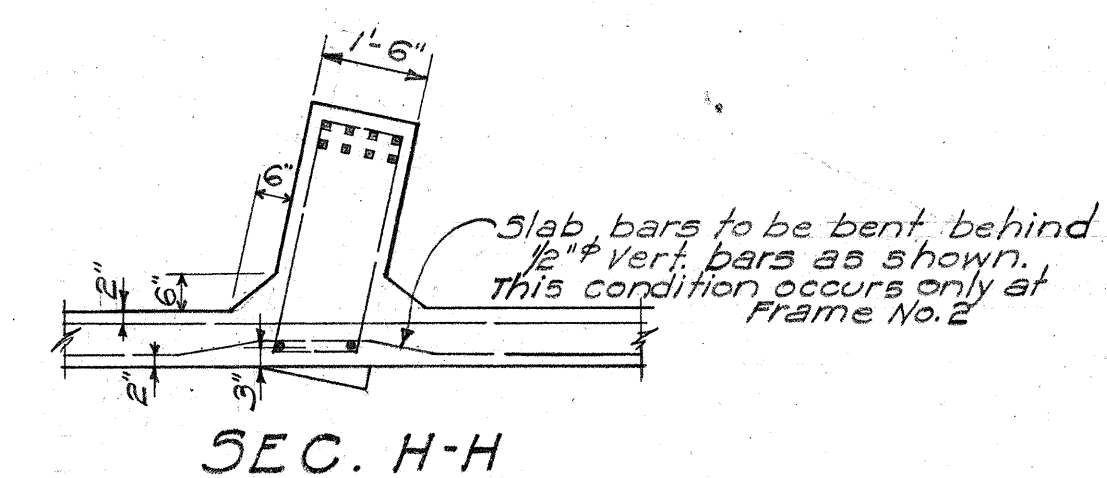
SECTION F-F
3/8" scale



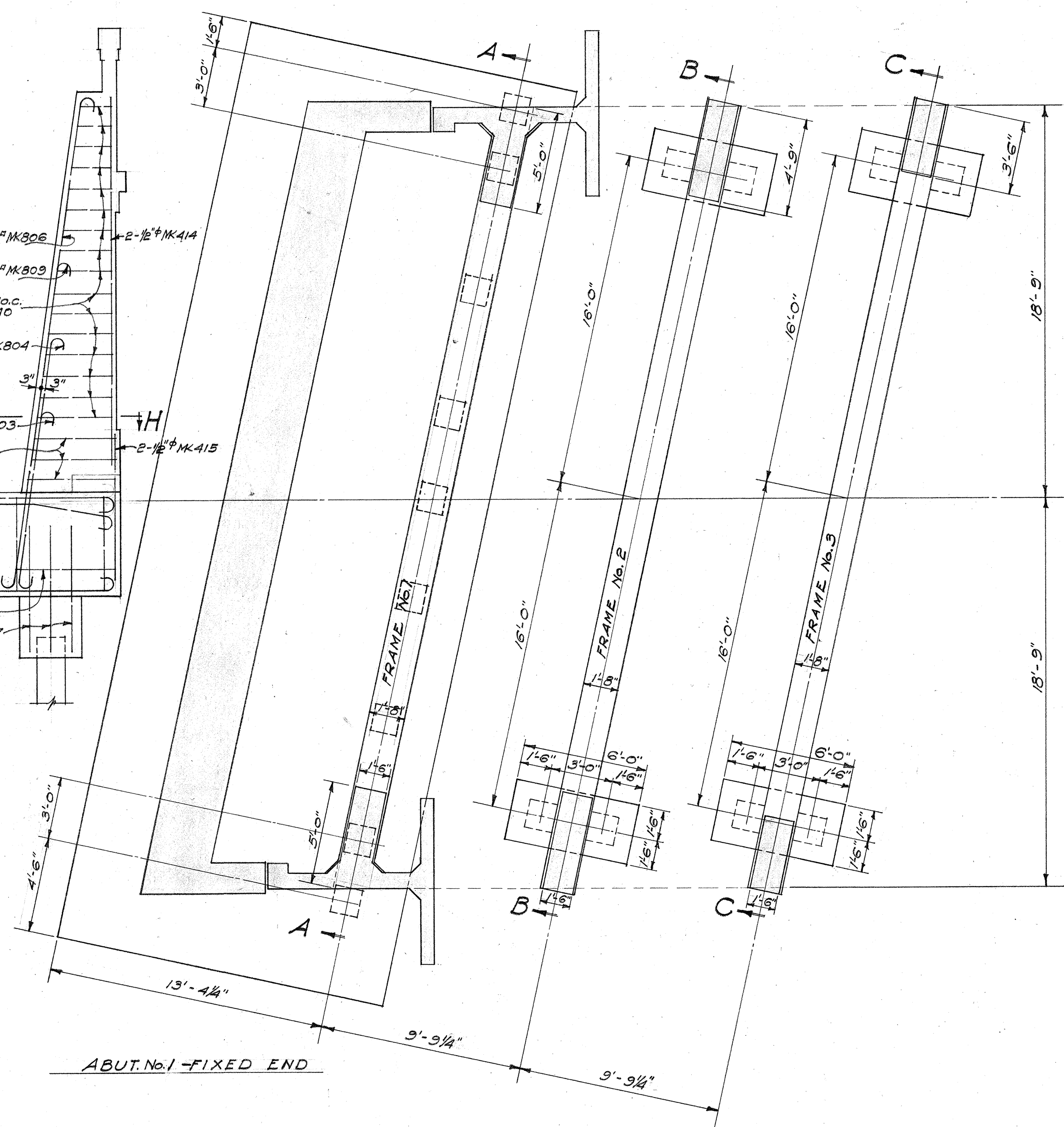
SECTION E-E
3/8" scale



SECTION G-G



SECTION H-H



ABUT. No. 1 - FIXED END

Notes:
1- Details of Frame No. 1, 2 & 3 also applies to Expansion End wingwalls.
2- Tie beams, ribs, and walls to be poured monolithically.

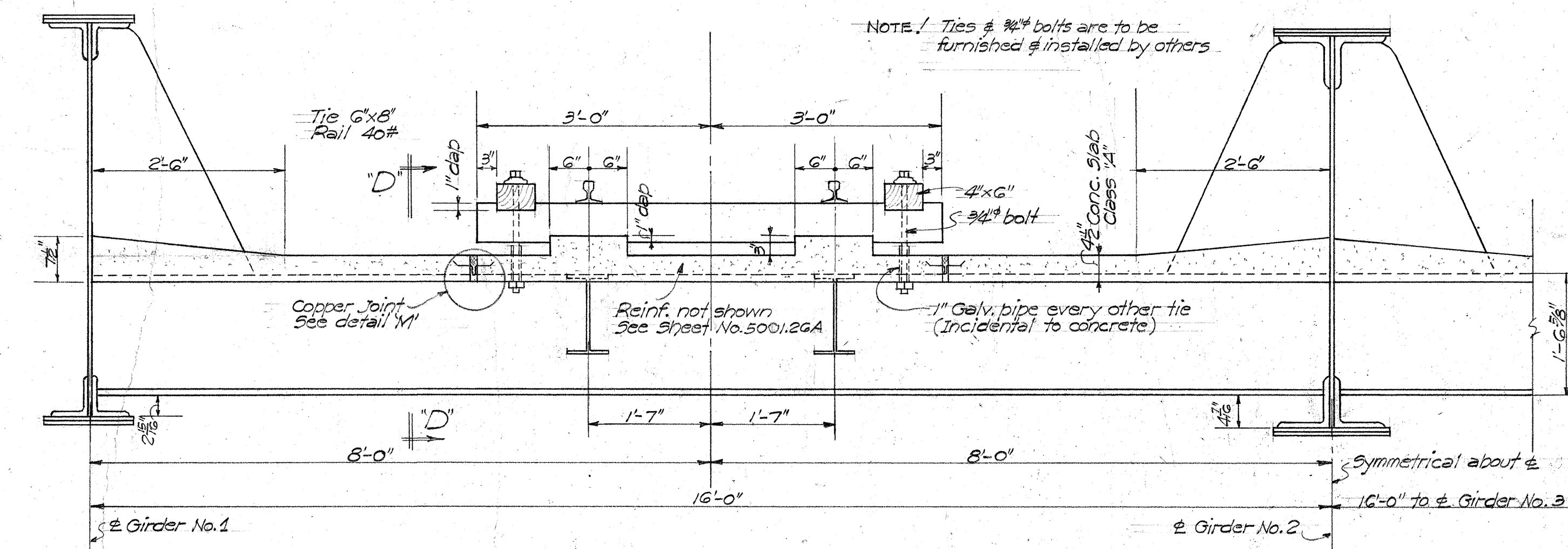
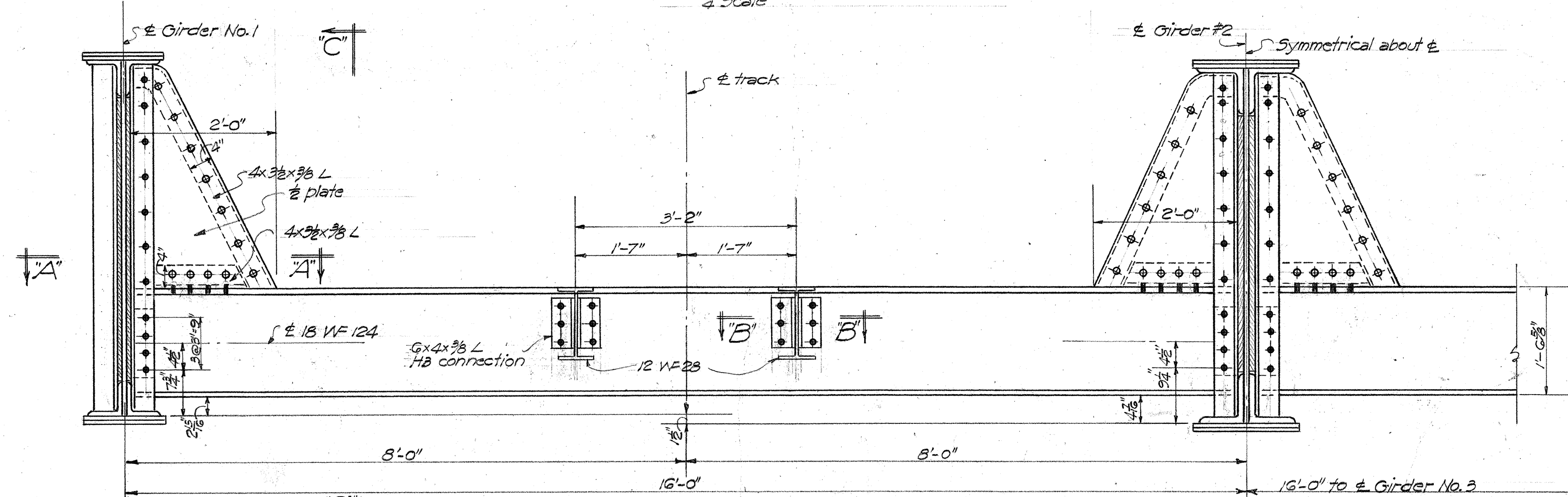
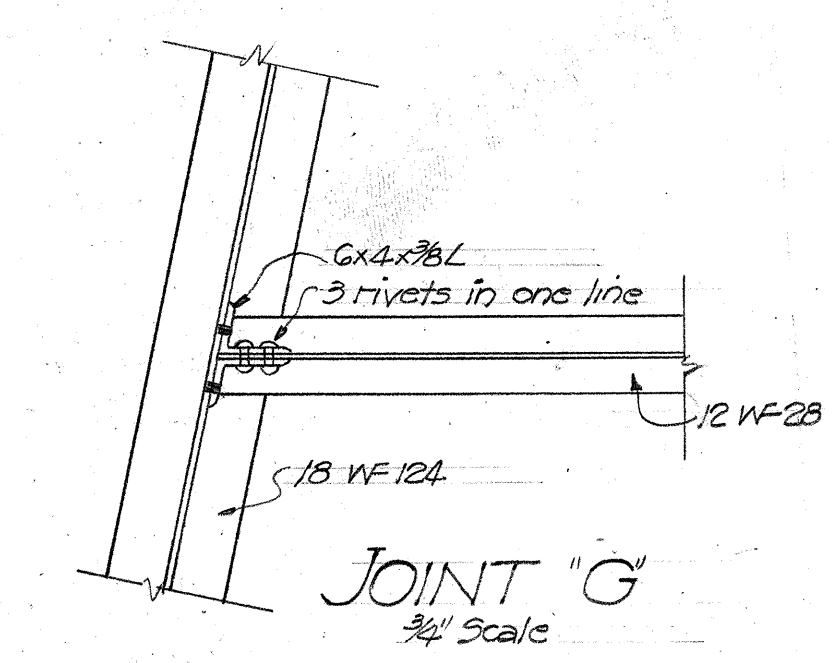
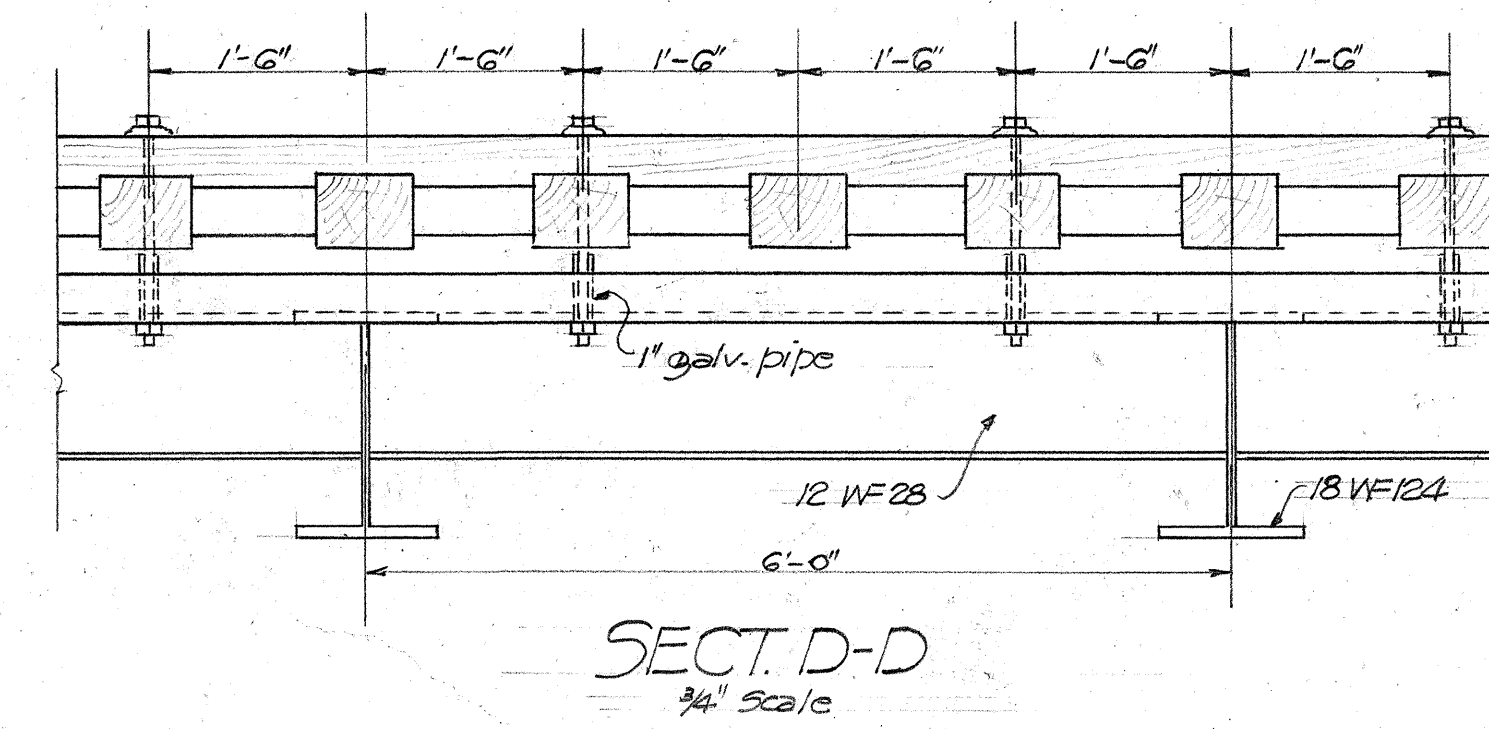
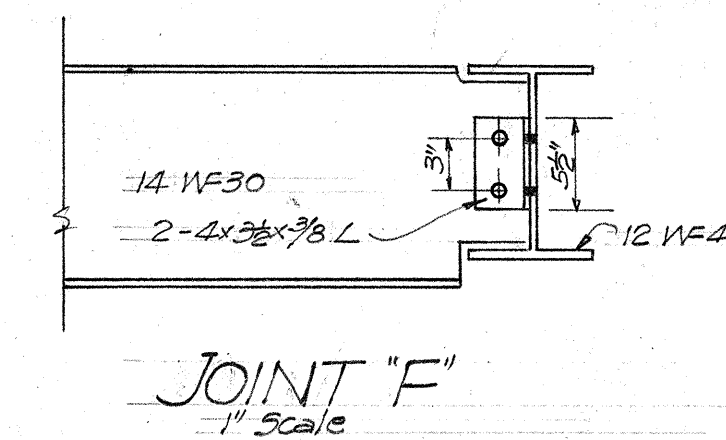
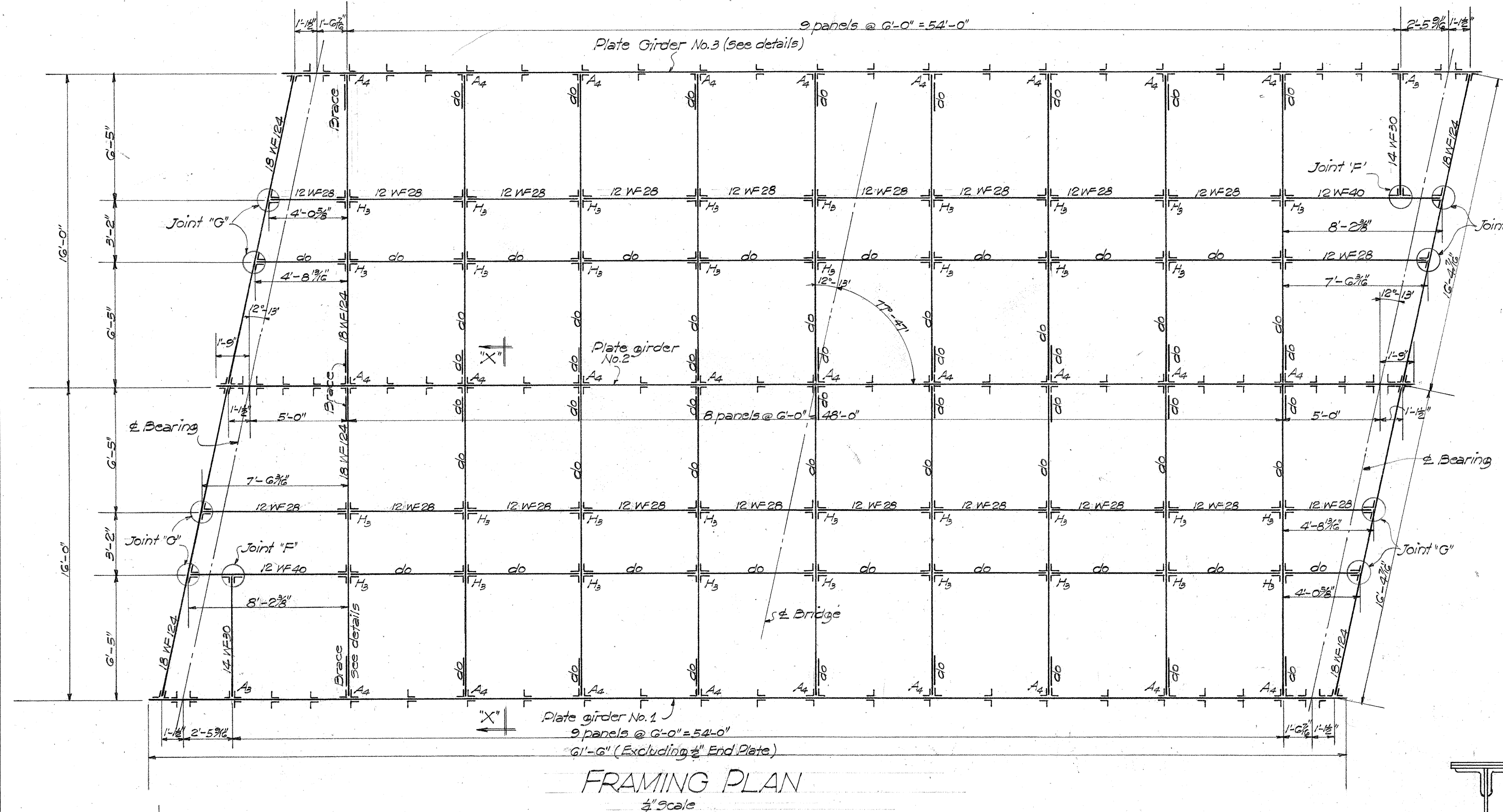
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

HIGHWAY UNDERPASS
STA. 45+07.25

WAIALUA-KAENA RD. F.A.G.H. 25 B (1)
SEPT. 1939.

SHEET No 7 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	5001.23 B (1)	1939	25 B	58



SPECIFICATION FOR ASPHALT FILLER
Melting Point 190-200 (A.S.T.M. D36-26)
Penetration 30-40 (A.S.T.M. D5-25)
Flash Point min. 400 (A.S.T.M. D93-36)

SECT. A-A
3/4" Scale

SECT. B-B
3/4" Scale

SECT. C-C
3/4" Scale

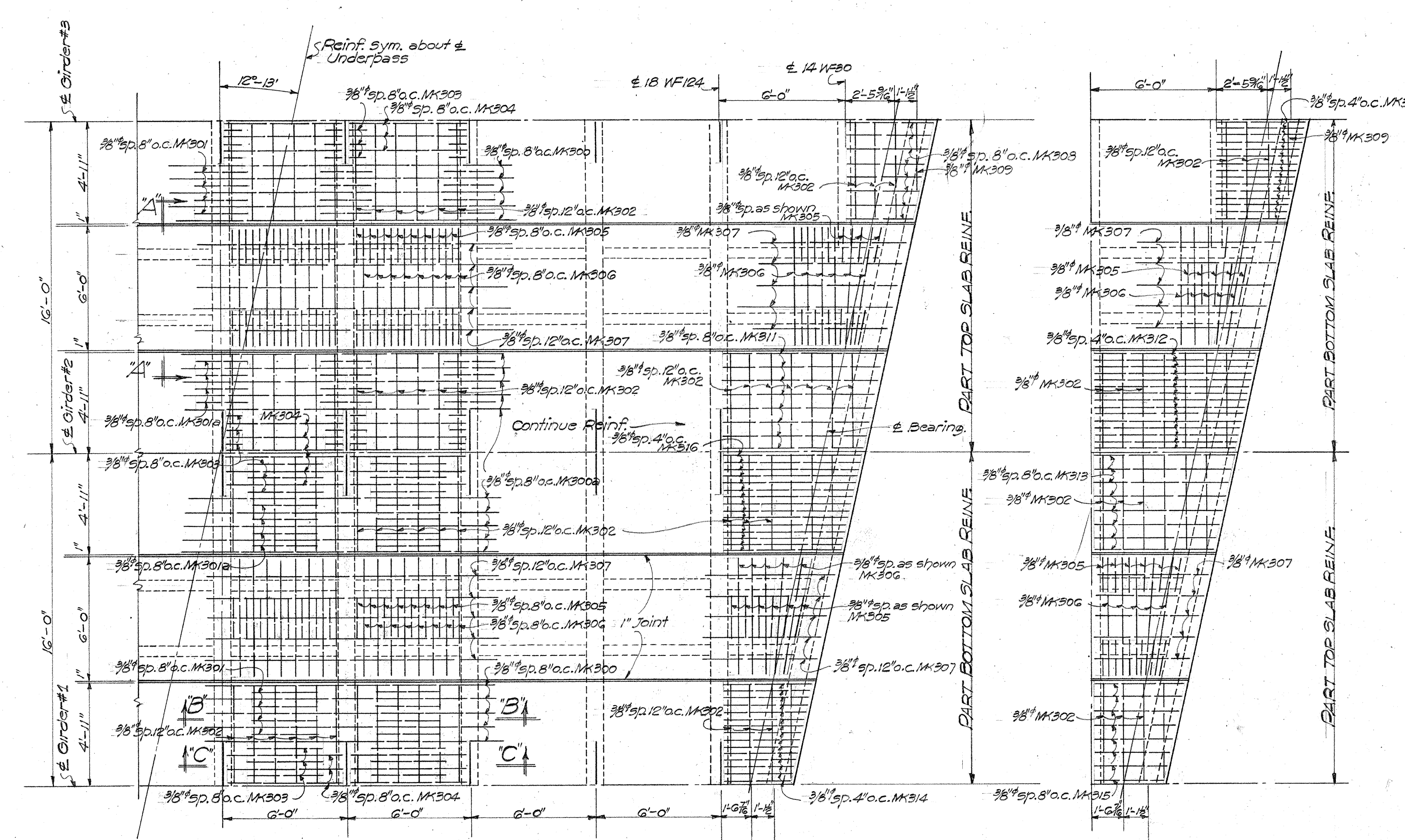
DETAIL "M"
3" Scale

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY UNDERPASS
STA. 45+07.25
WAIALUA-KAENA RD. F.A.G.H. 35 B (1)
MAR. 1940

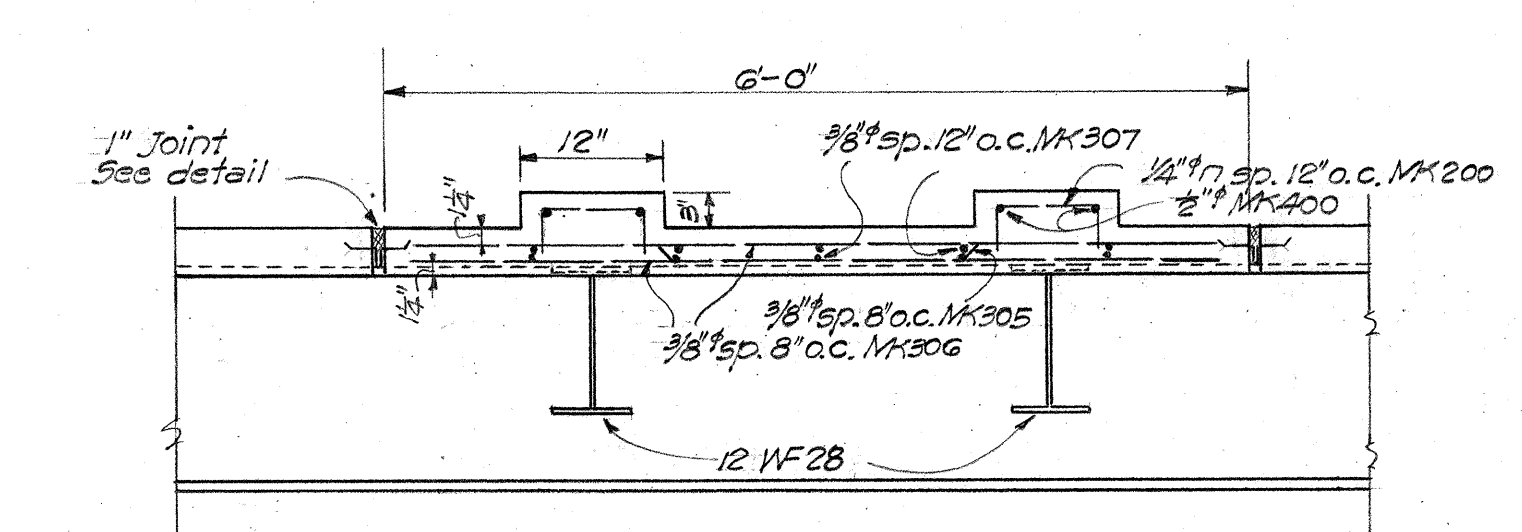
SHEET NO. 25 B OF 14 SHEETS

5001.23 B

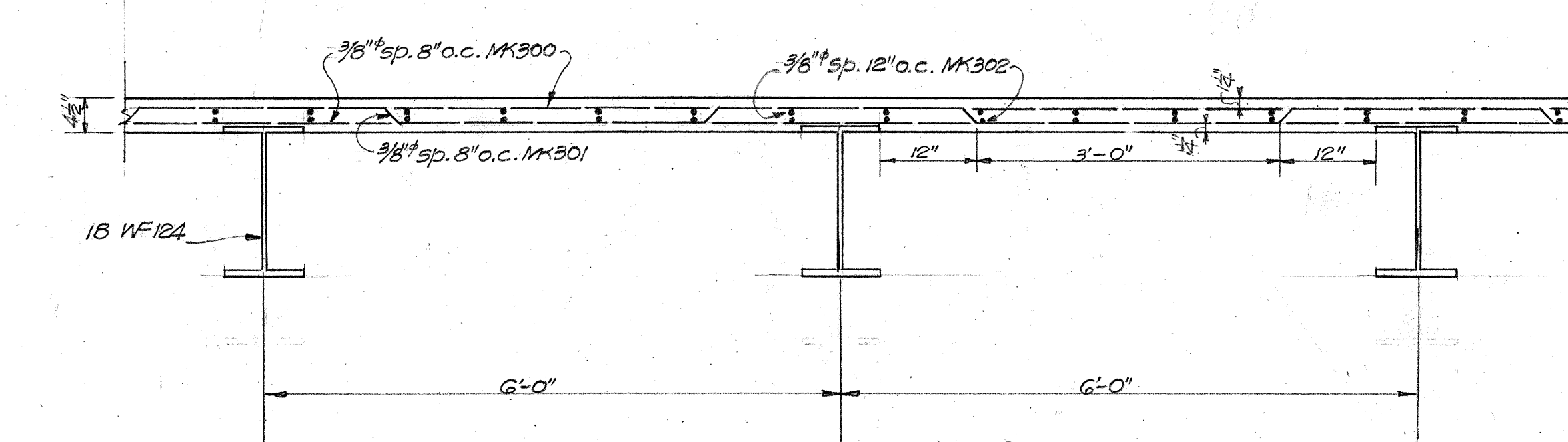
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



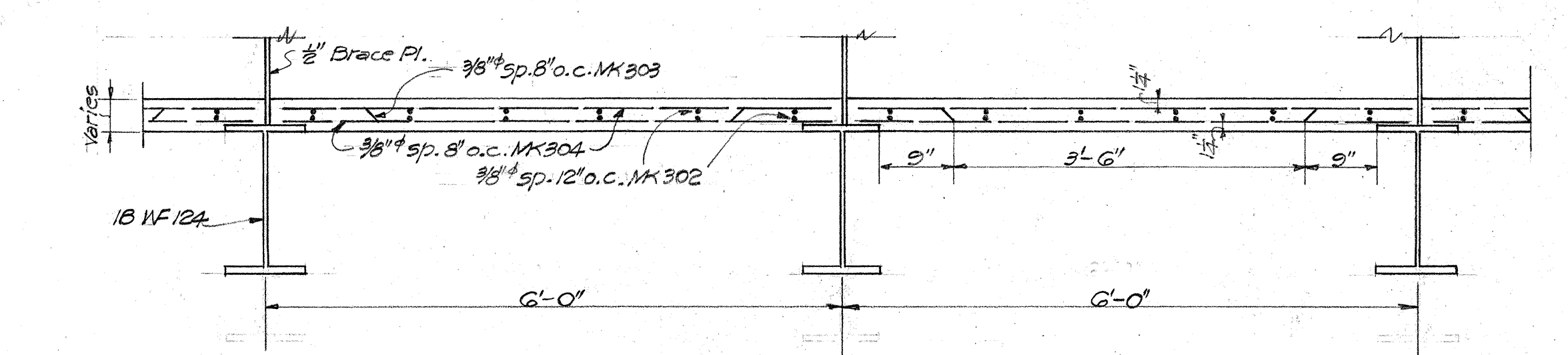
PART SLAB REINF.
Scale 1/4" = 1'-0"



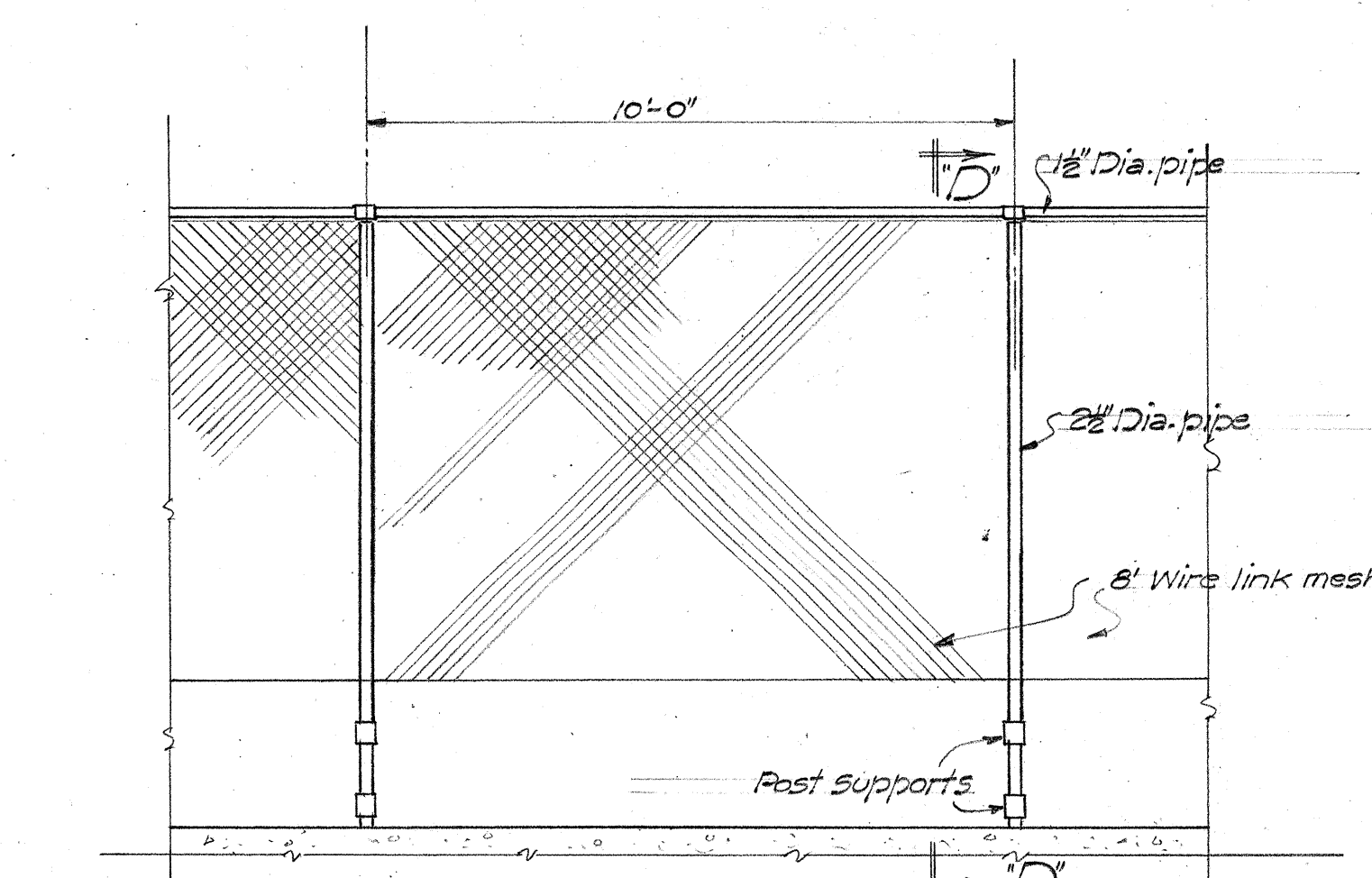
SECT. A-A
Scale 3/4" = 1'-0"



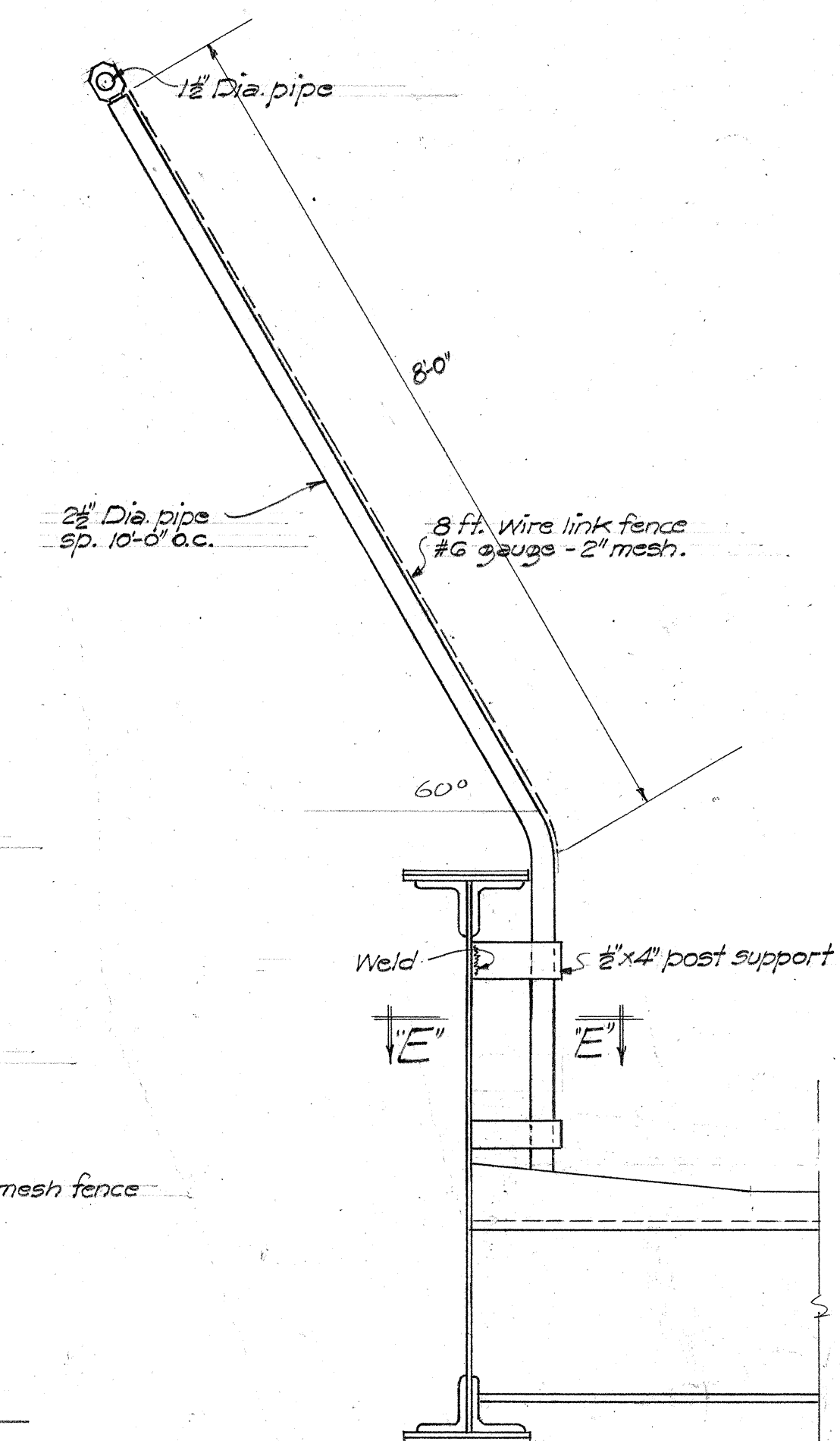
SECT. B-B
Scale 3/4" = 1'-0"



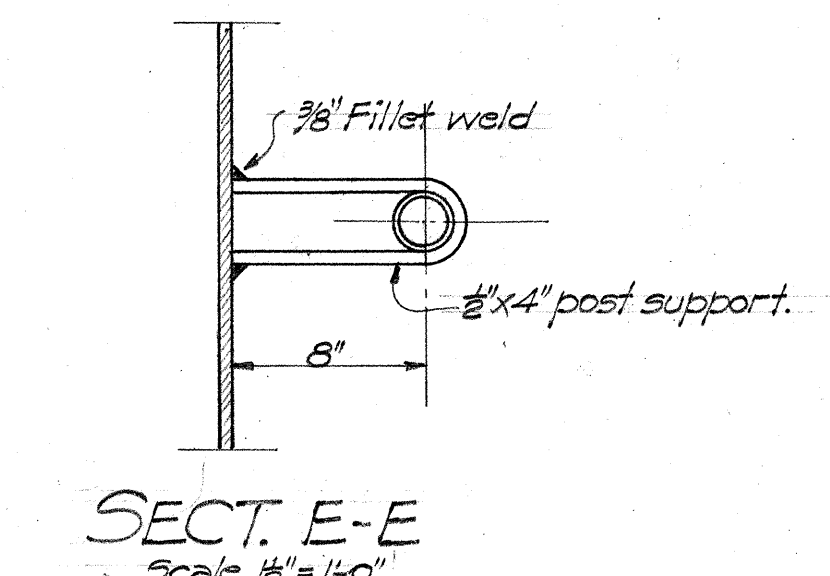
SECT. C-C
Scale 3/4" = 1'-0"



ELEV. WIRE LINK FENCE CANE GUARD.
Scale 3/8" = 1'-0"



SECT. D-D
Scale 3/4" = 1'-0"



SECT. E-E
Scale 1/2" = 1'-0"

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY UNDERPASS.
STA. 45+07.25
WAILUA-KAENA RD. F.A.G.H. 25B(1)
FEB. 1940

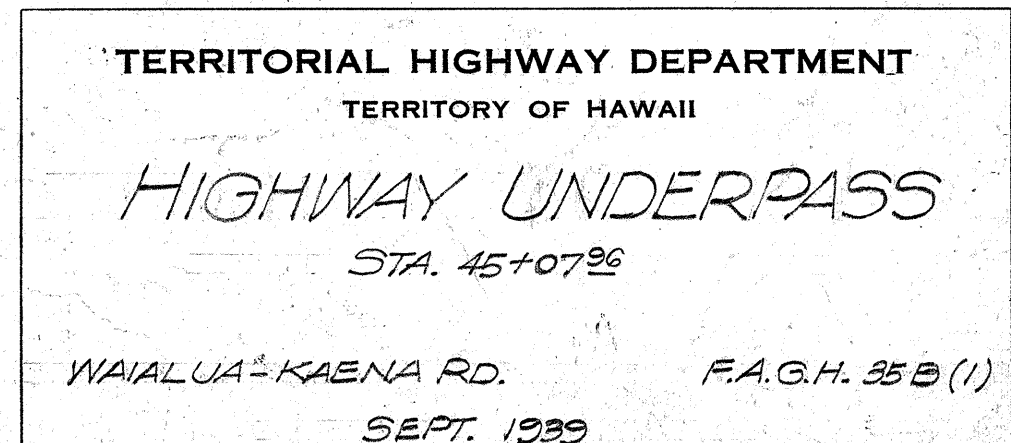
SHEET No 26 OF 14 SHEETS

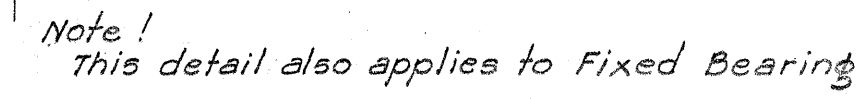
3001.26A

ORIGINAL
PLAN
NOTE BOOK
No.

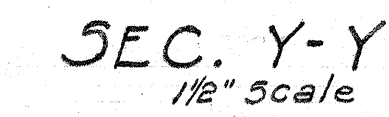
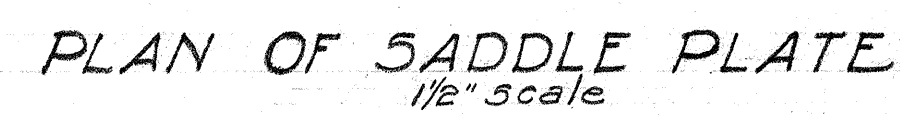
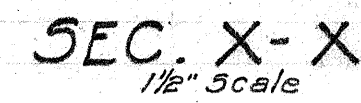
SURVEY PLOTTED BY
DESIGNED BY
TRACED BY
QUANTITIES BY
CHECKED BY

DATE
1/25/40
1/25/40
1/25/40
1/25/40
1/25/40

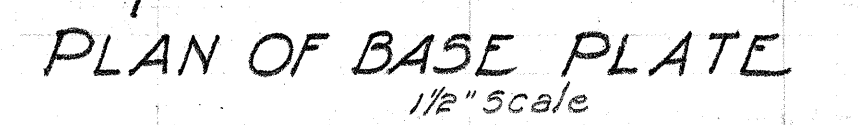




PLAN OF CONNECTION BETWEEN
GIRDER & SOLE PLATE
1 1/2" Scale



Note!
Detail of Side Elevation is similar
to Interior Girder.



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

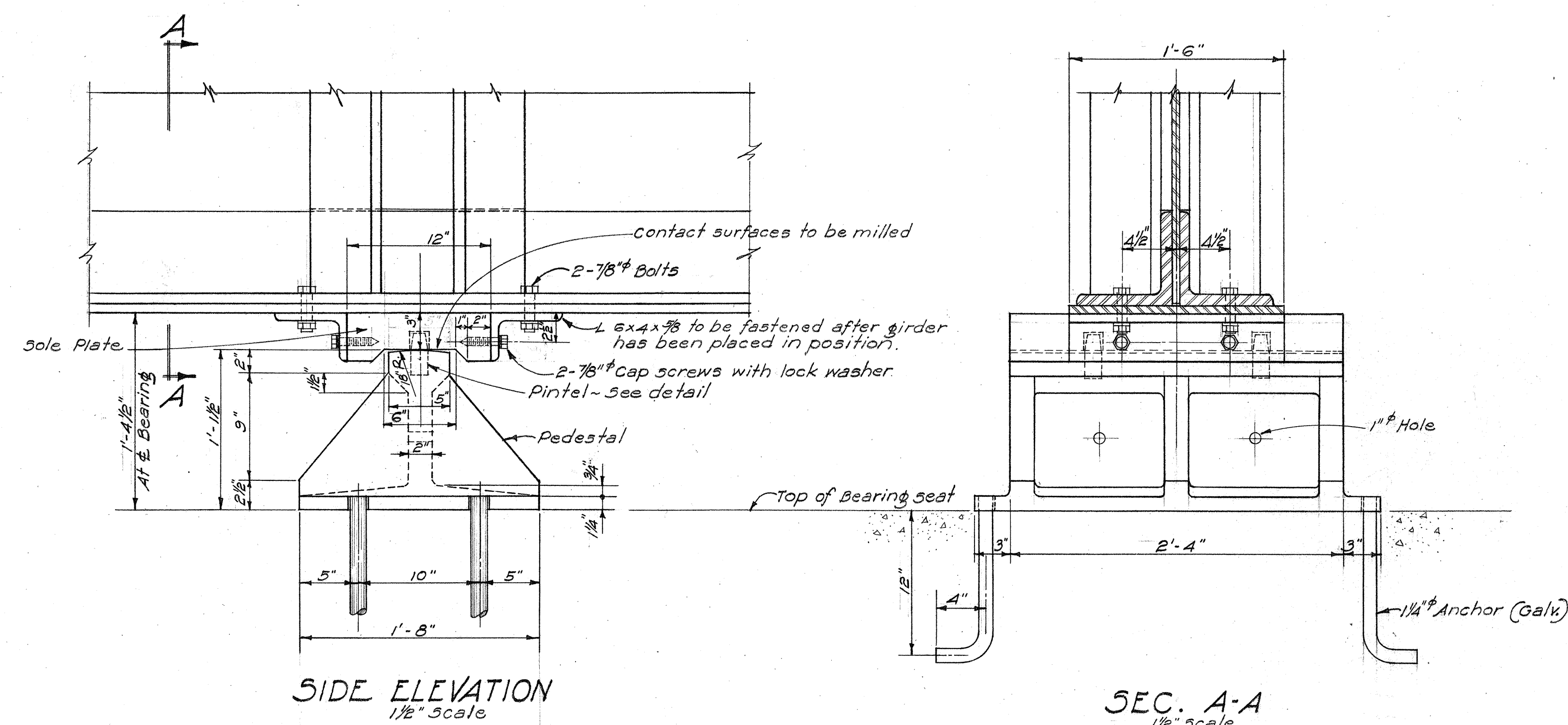
HIGHWAY UNDERPASS
STA. 45+07.96

WAIALUA - KAENA RD. F.A.G.H. 35B(1)
SEPT. 1959.

SHEET № 12 OF 14 SHEETS

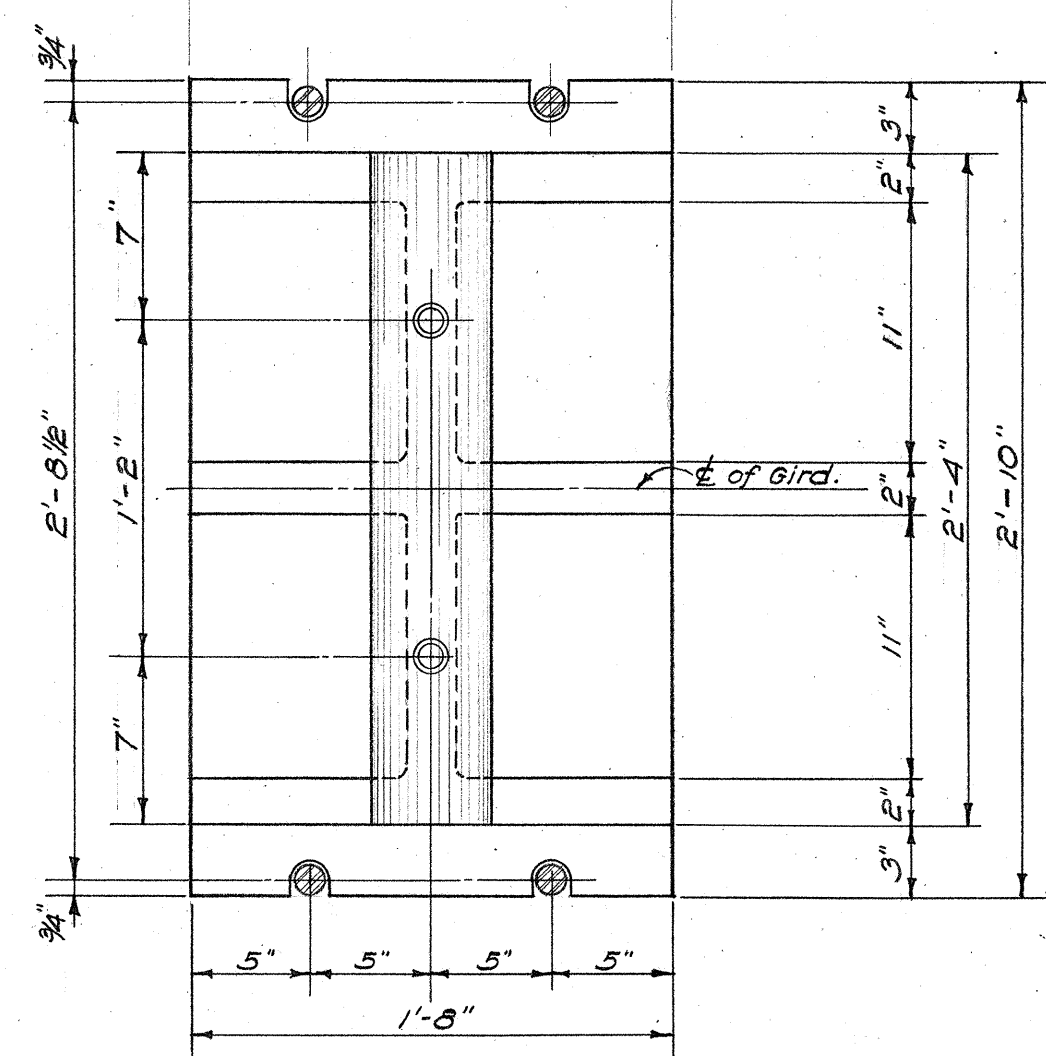
ORIGINAL PLAN	SURVEY PLOTTED BY <u>M. R. BARTZ</u>	DATE <u>Aug. 1832</u>
	DESIGNED BY <u>M. R. BARTZ</u>	44
	DRAWN BY <u>M. R. BARTZ</u>	44
	TRACED BY <u>M. R. BARTZ</u>	44
	QUANTITIES BY <u>T. TING</u>	44
	QUANTITIES CHECKED BY <u>P. KANG</u>	44
	CHECKED BY <u>M. R. BARTZ</u>	44
NOTE BOOK		
No. _____		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	783H 35B(1)	1939	30	58

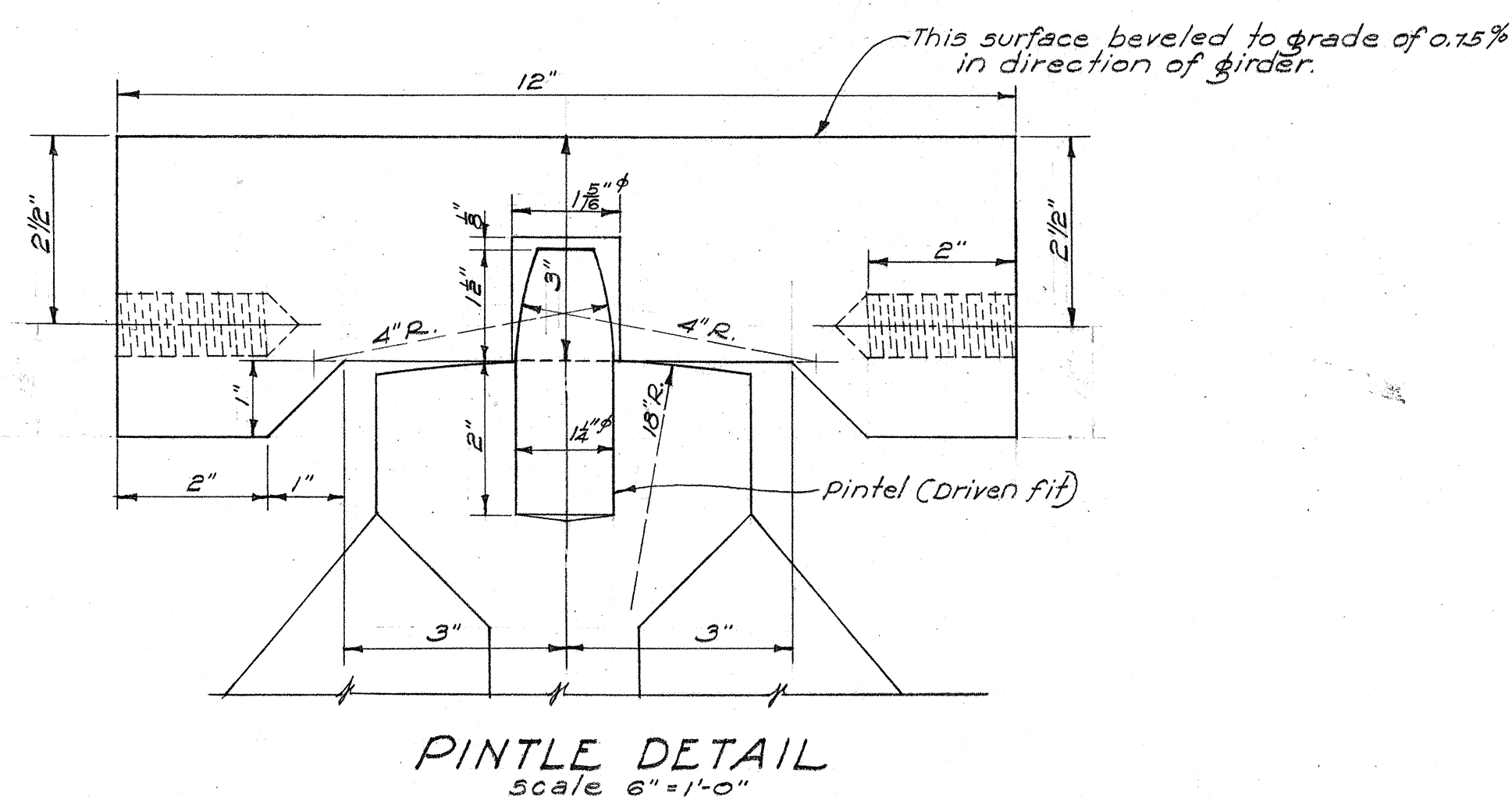


SIDE ELEVATION
1/2" scale

SEC. A-A
1/2" scale



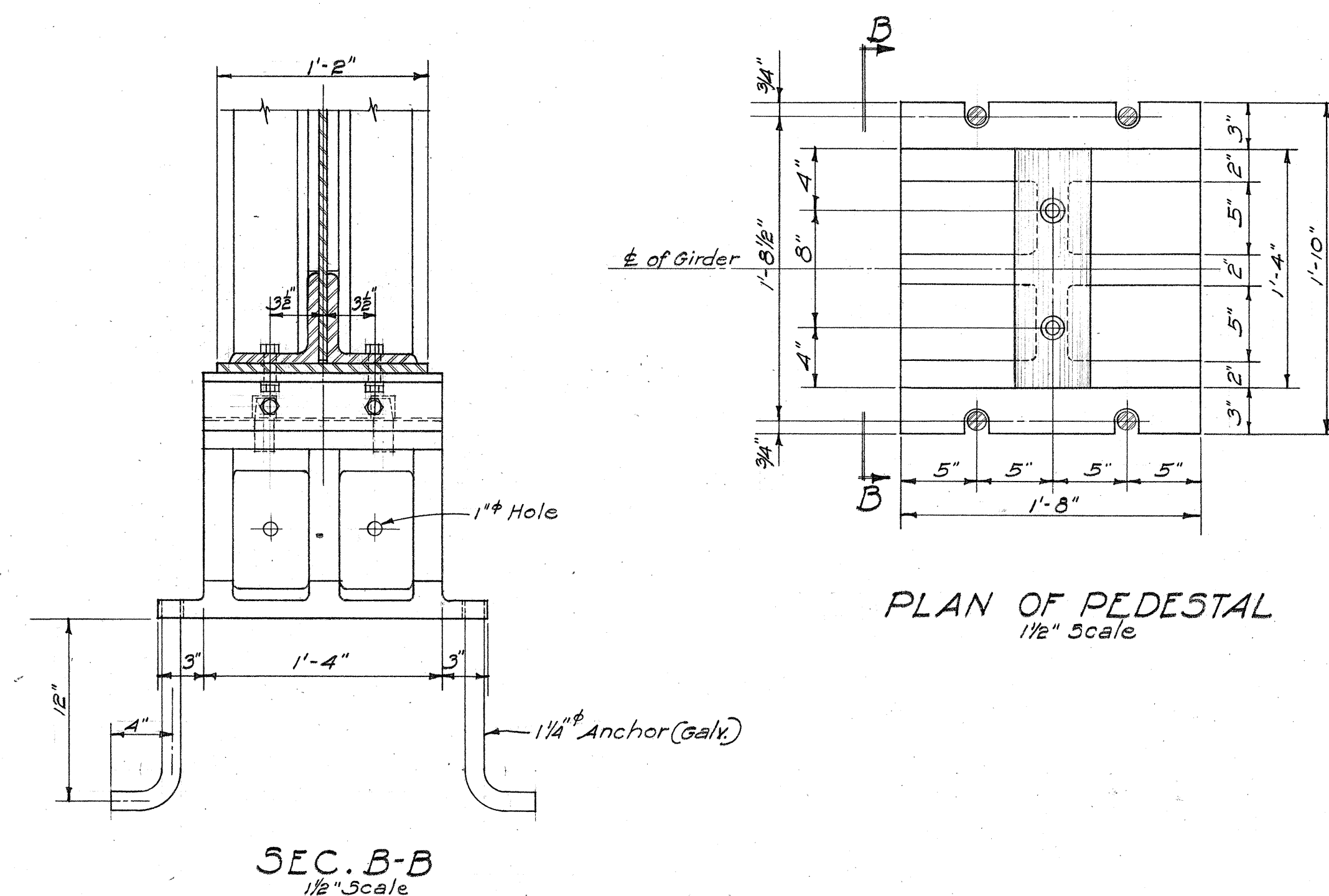
PLAN OF PEDESTAL
1/2" scale



PINTLE DETAIL
Scale 6" = 1'-0"

Note!
Exp. Bearing Pintel similar.

DETAILS OF FIXED BEARING - INTERIOR GIRDER



PLAN OF PEDESTAL
1/2" scale

SEC. B-B
1/2" scale

Note!
Detail of side Elevation is similar to interior girder pedestal.

DETAILS OF FIXED BEARING - OUTSIDE GIRDERS

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY UNDERPASS
STA. 45+07.25
WAIALUA - KAENA RD. F.A.G.H. 35B(1)
SEPT. 1939.
SHEET No 13 OF 14 SHEETS

5001.30

5001.30

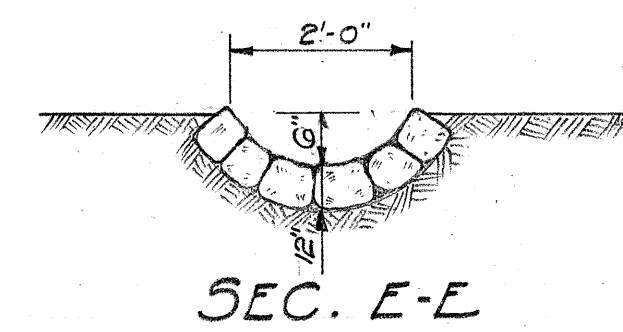
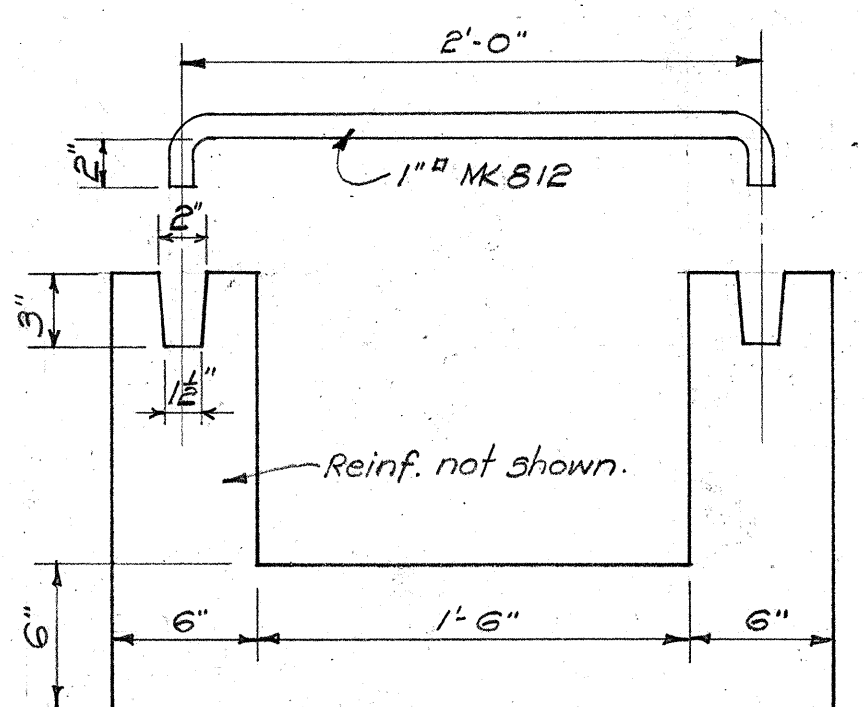
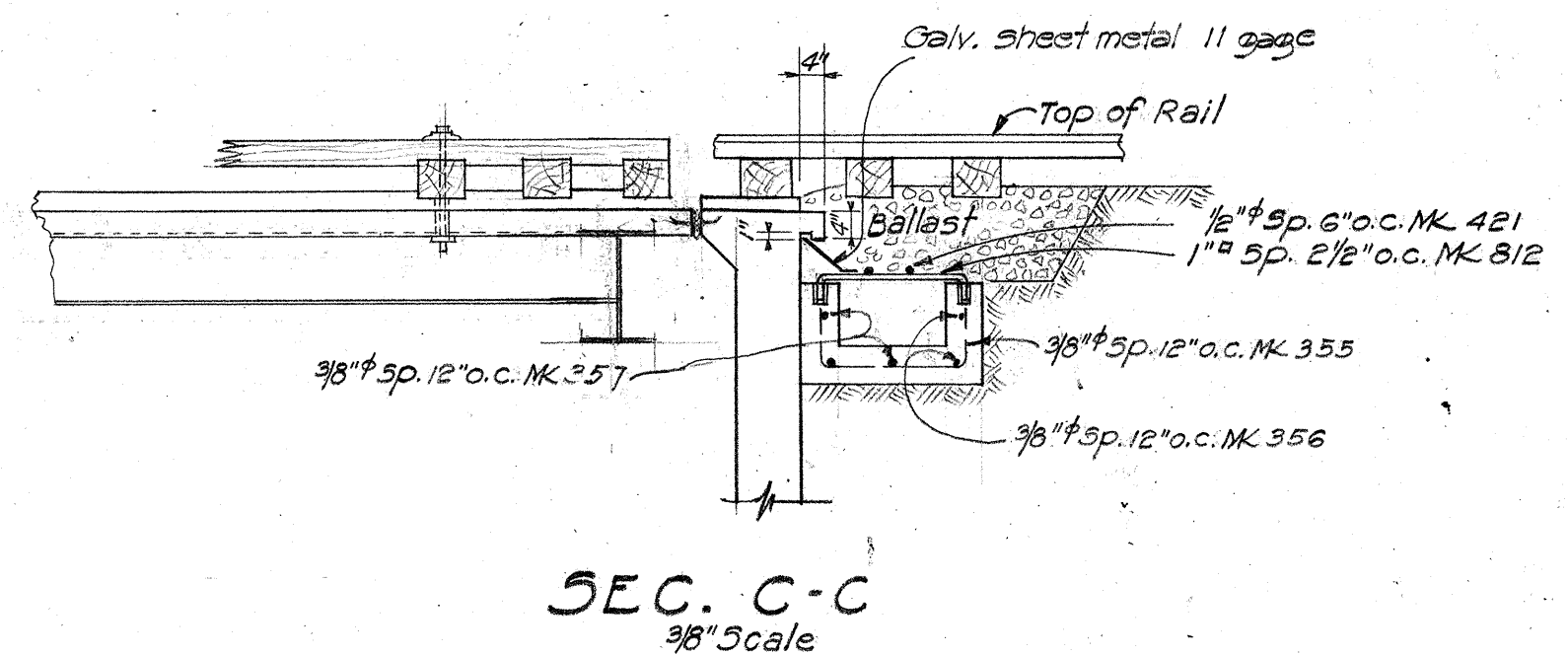
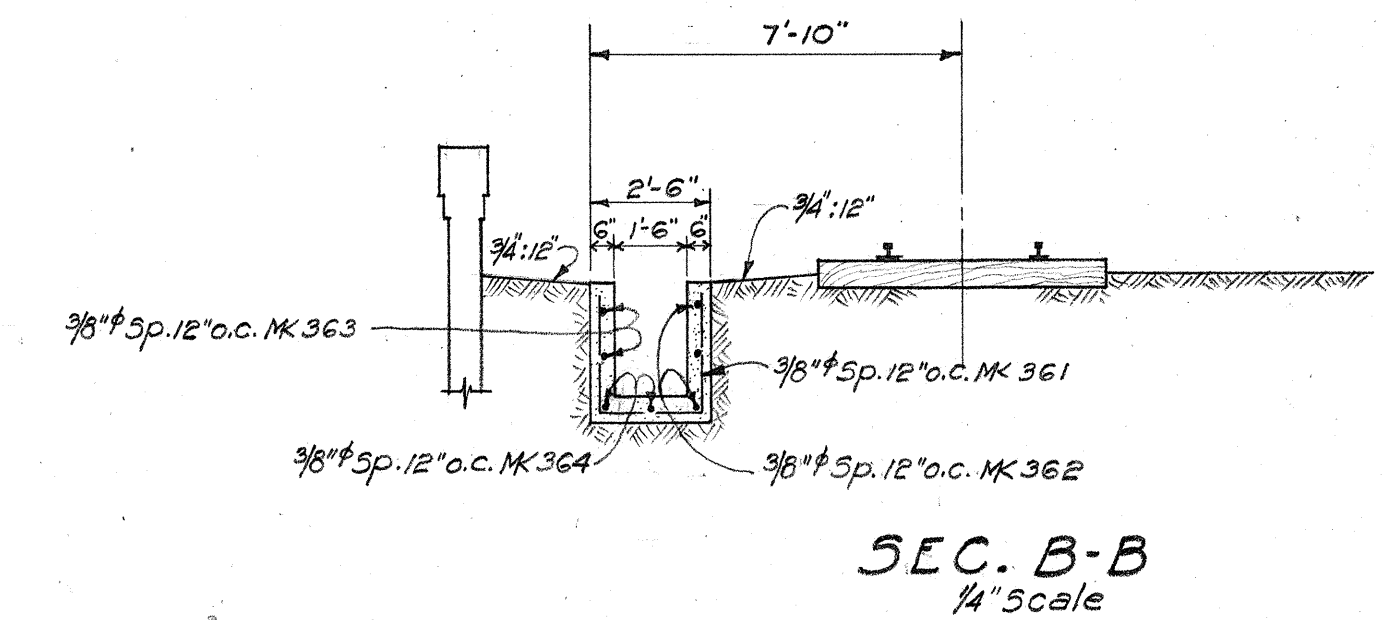
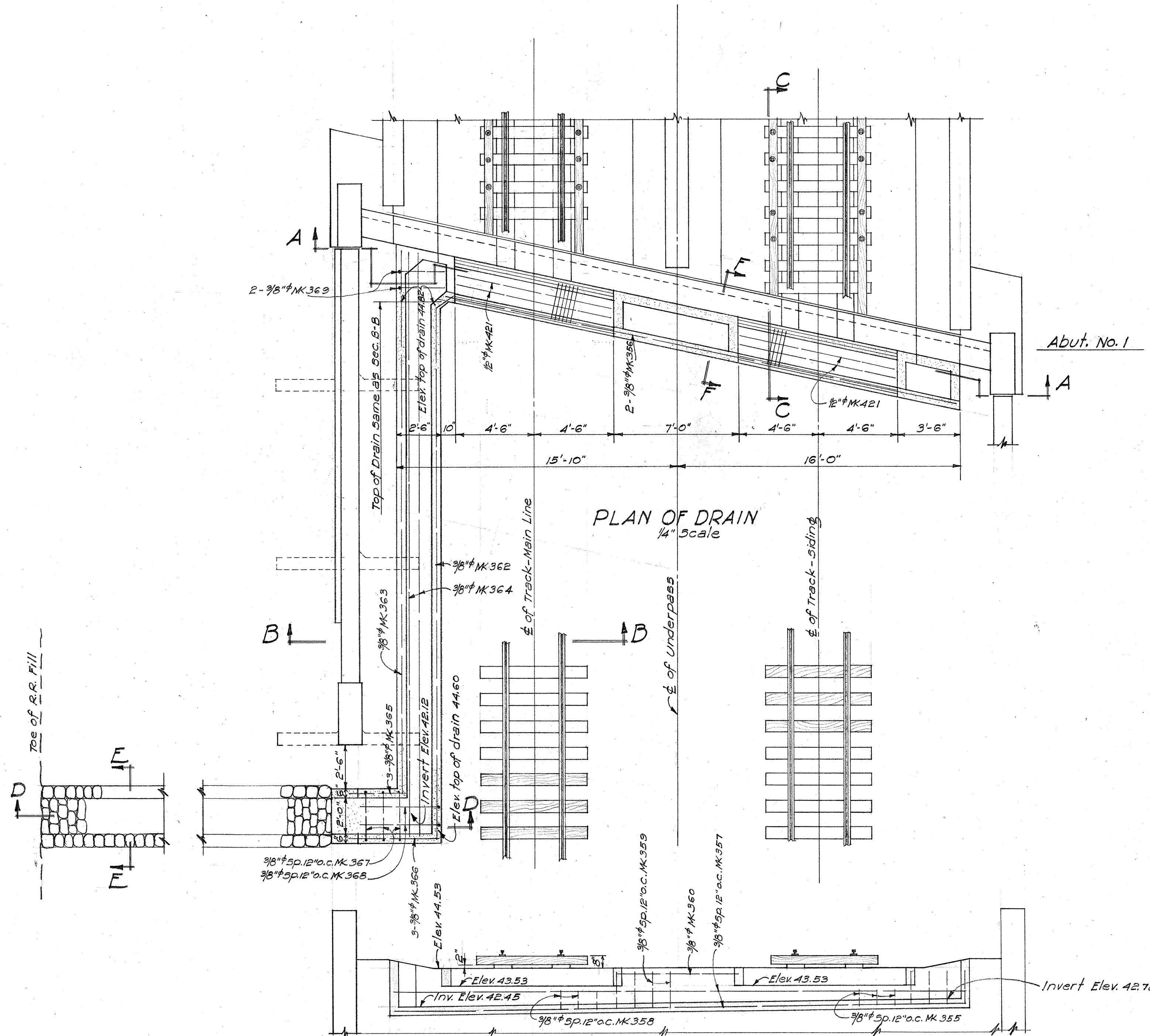
SURVEY PLOTTED BY	DATE
DESIGNED BY	10/23/39
DRAWN BY	10/23/39
QUANTITIES BY	10/23/39
CHECKED BY	10/23/39
NOTED BY	10/23/39
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	PRGH 300(1)	1939	31	58

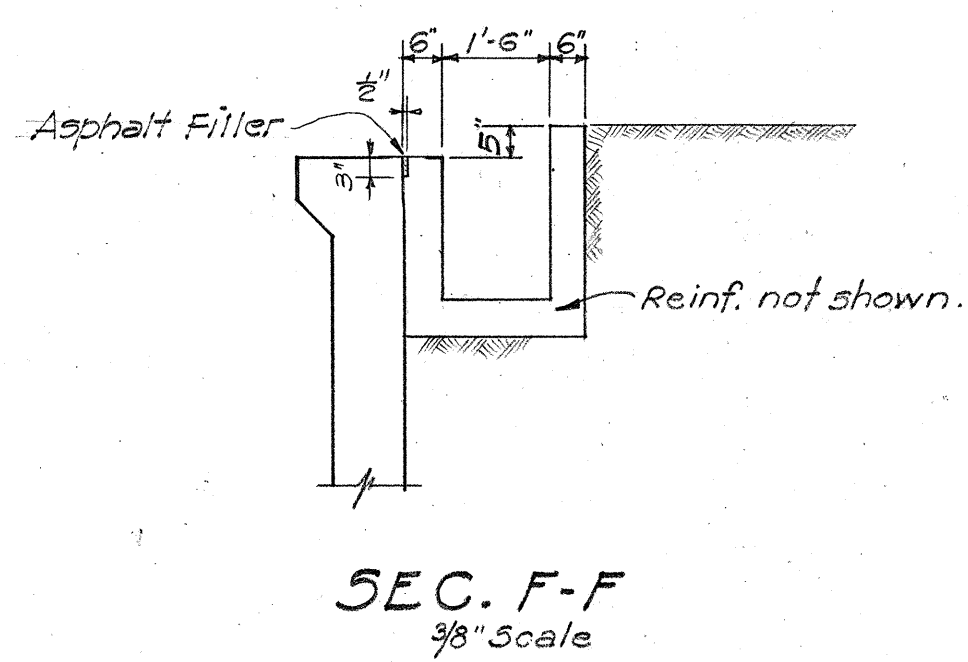
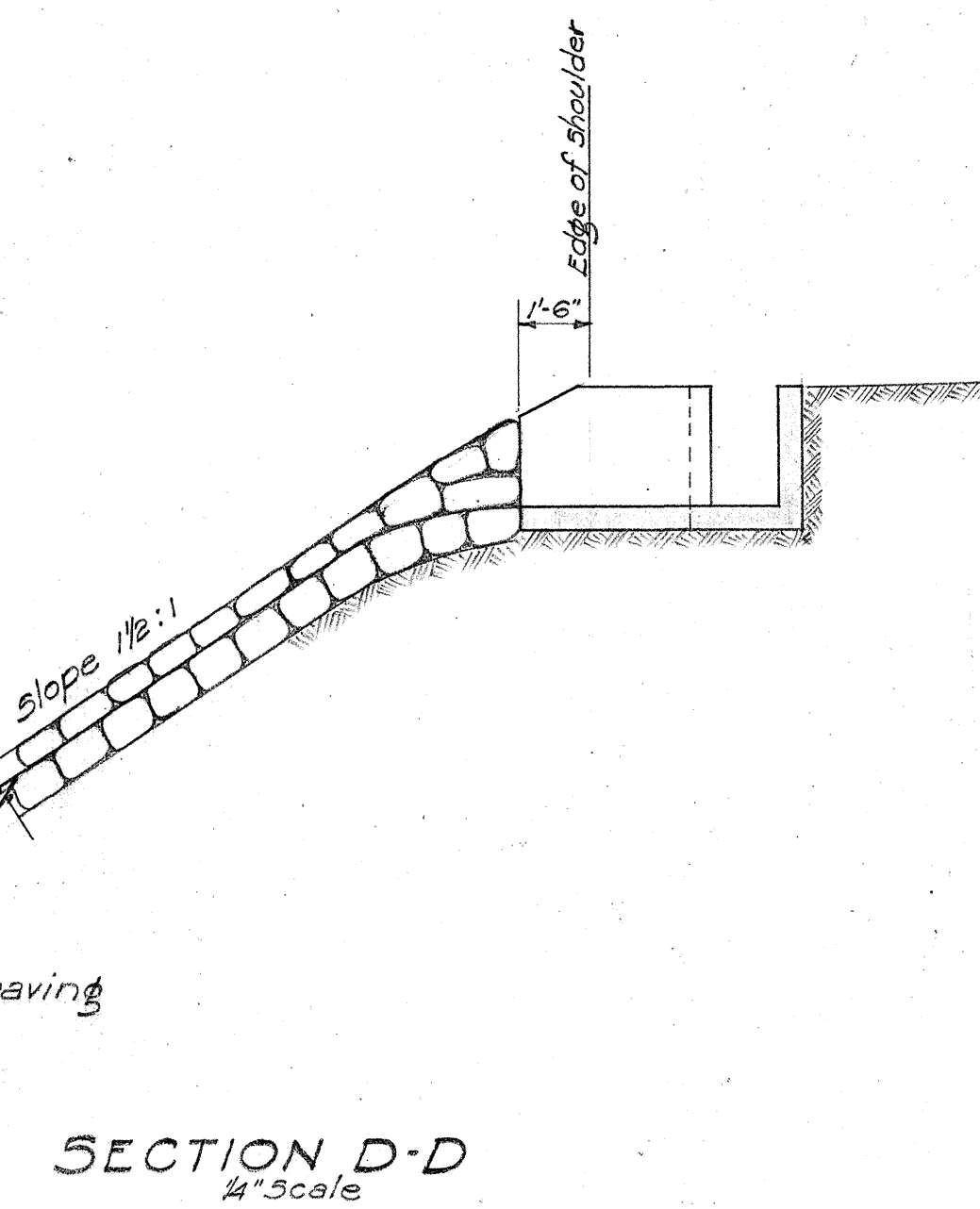
Revised Mar. 1940

Revision: Waterproofing Abutment wall.

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



SEC. A-A
1/4" Scale



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
HIGHWAY UNDERPASS
STA. 45+07.25
WAIALUA-KAENA RD. F.A.G.M. 35 B (1)
SEPT. - 1939.

SHEET NO. 4 OF 14 SHEETS