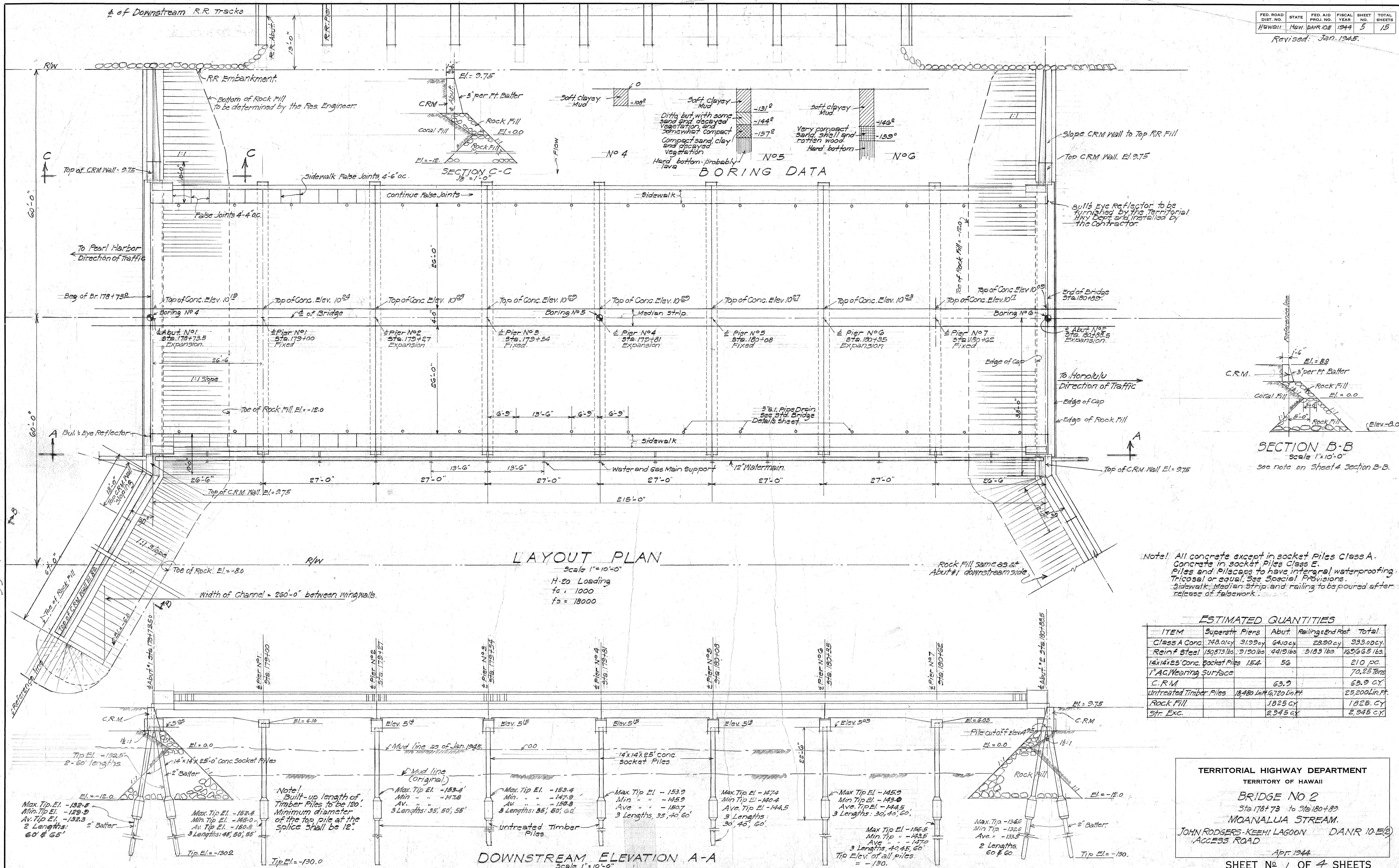
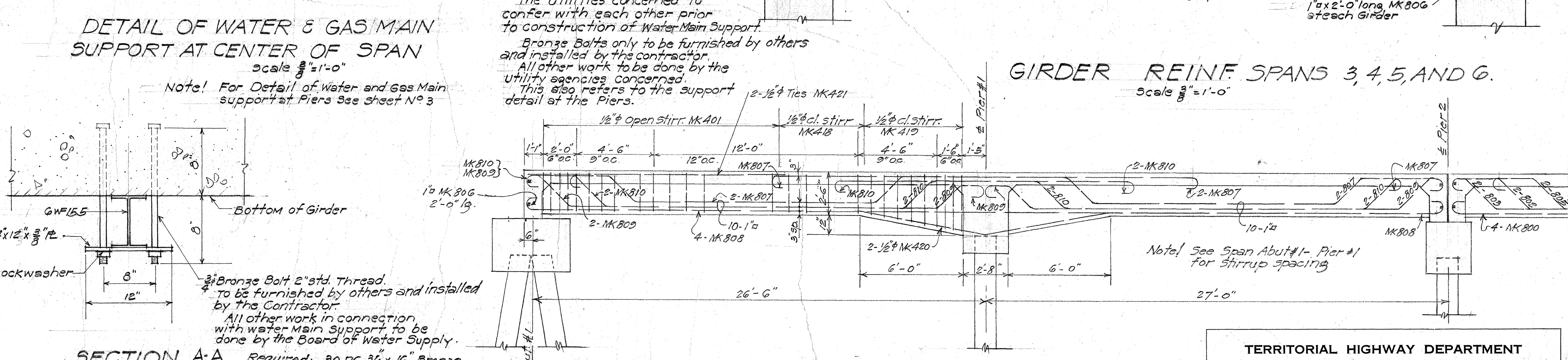
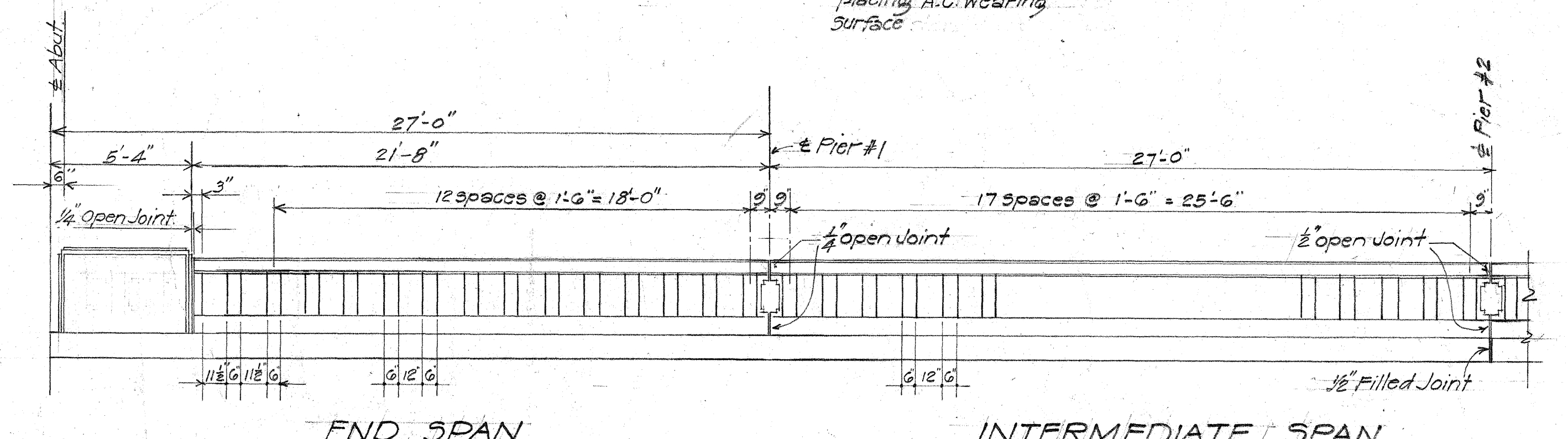
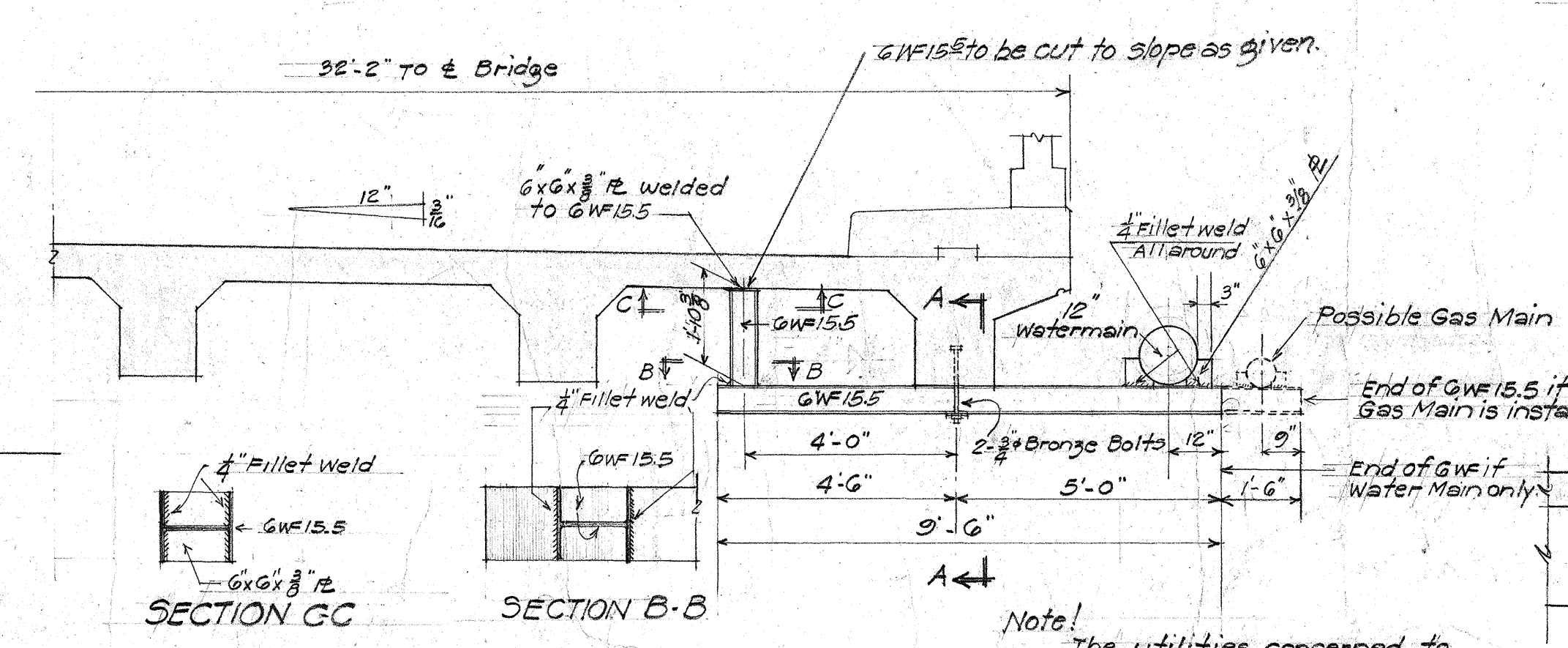
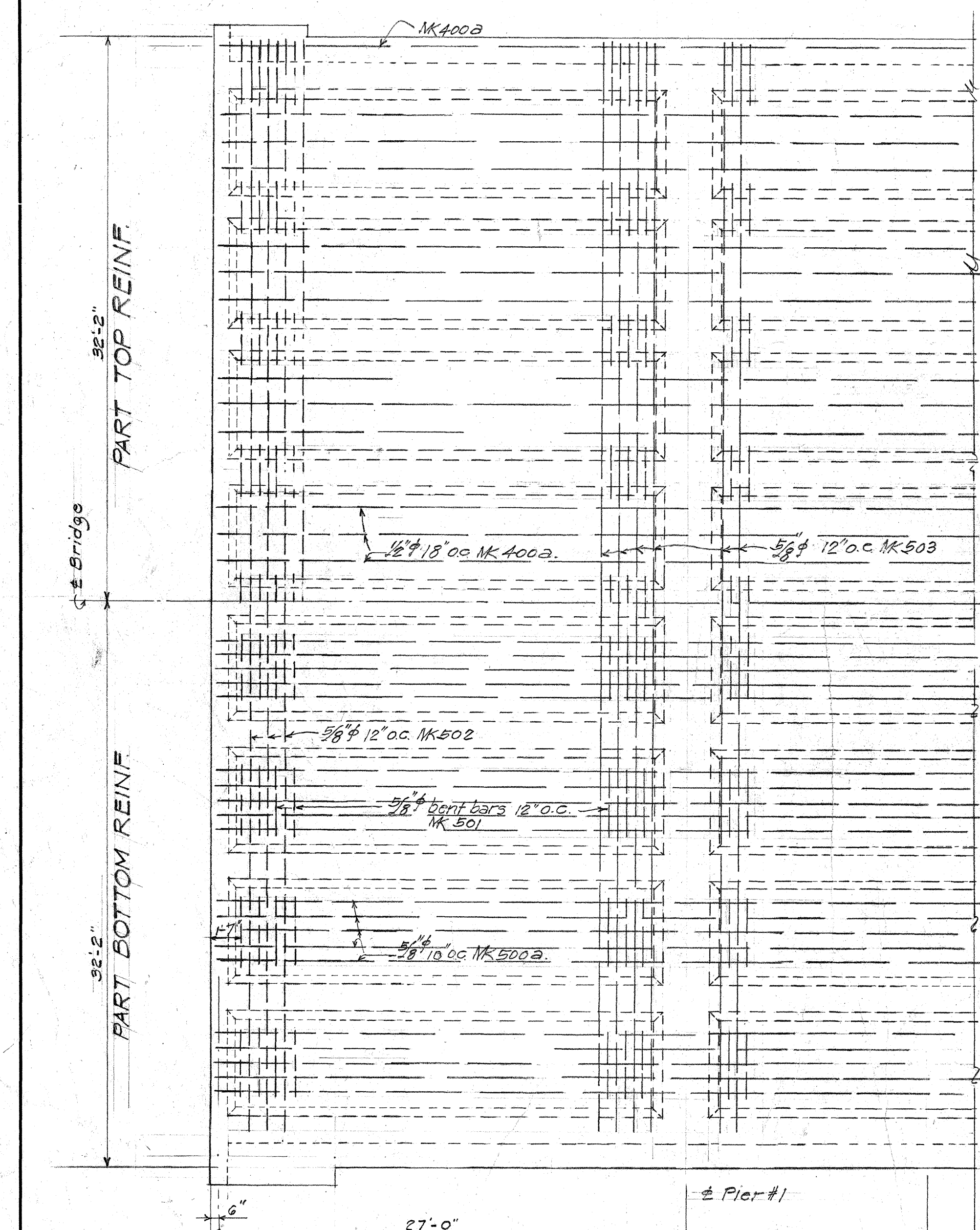
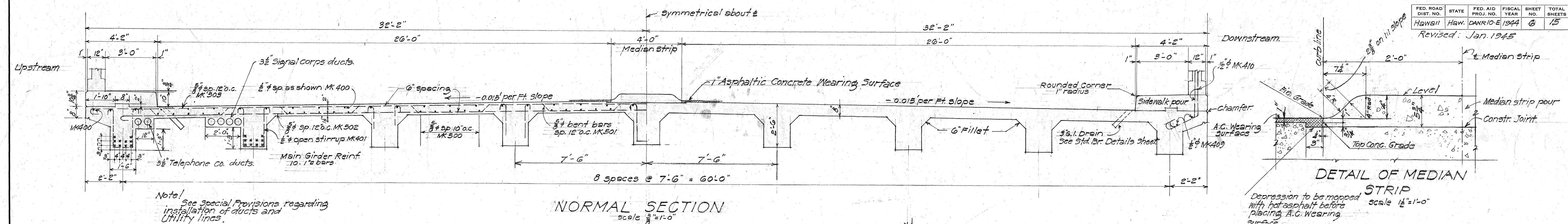


Revised: Jan. 1945.



5139.5



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 2
Sta. 173+73 to Sta. 180+89
MOANALUA STREAM
JOHN RODGERS KEEHI LAGOON
ACCESS ROAD

Revision: Location of Signal Corps ducts changed. Girder Reinf. for Span 1 & 2 added.

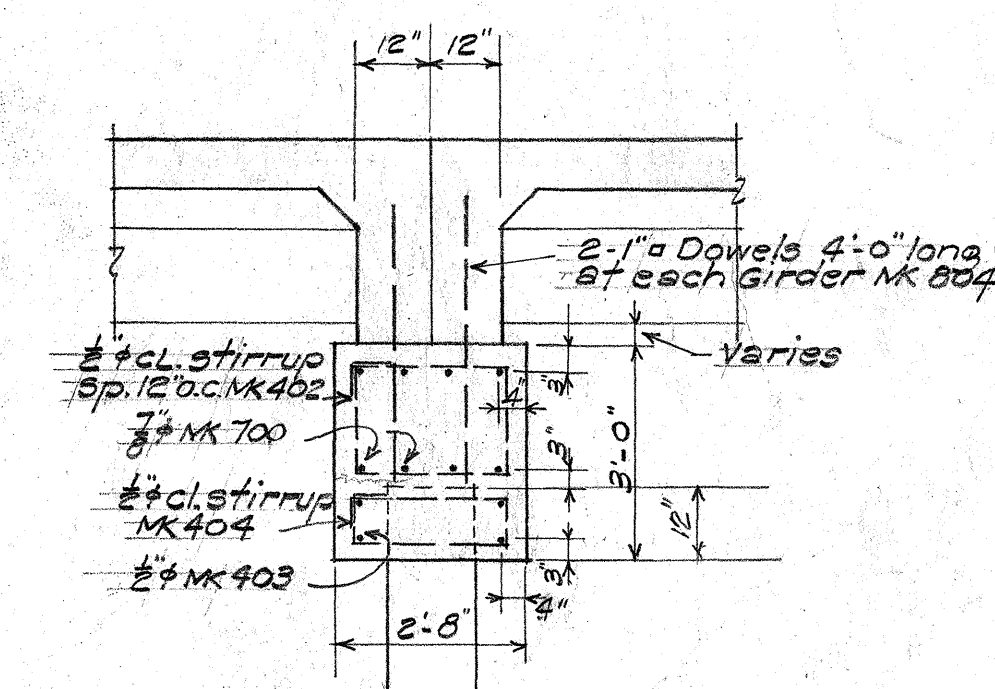
DATE	BY	REASON
April 1944	W. H. G. G.	Location of Signal Corps ducts changed.
May 1944	W. H. G. G.	Girder Reinf. for Span 1 & 2 added.



Technical drawing of a bracket assembly. The drawing shows a side view of a bracket with a horizontal base and a vertical support. Key dimensions and components are labeled:

- Base Dimensions:** The base has a total width of 1'-4" and a central opening of 1'-4". The distance from the centerline to the edge of the base is 8".
- Support Dimensions:** The vertical support has a width of 12" and a height of 3". The distance from the centerline to the edge of the support is 8".
- Components:** The assembly includes a "Lockwasher" and "2-3/4\" Bolt 8\"std. Thread".
- Other Labels:** "Main", "8\" x 4\" 2", "6W=155", "0.0", and "0.0" are also present.

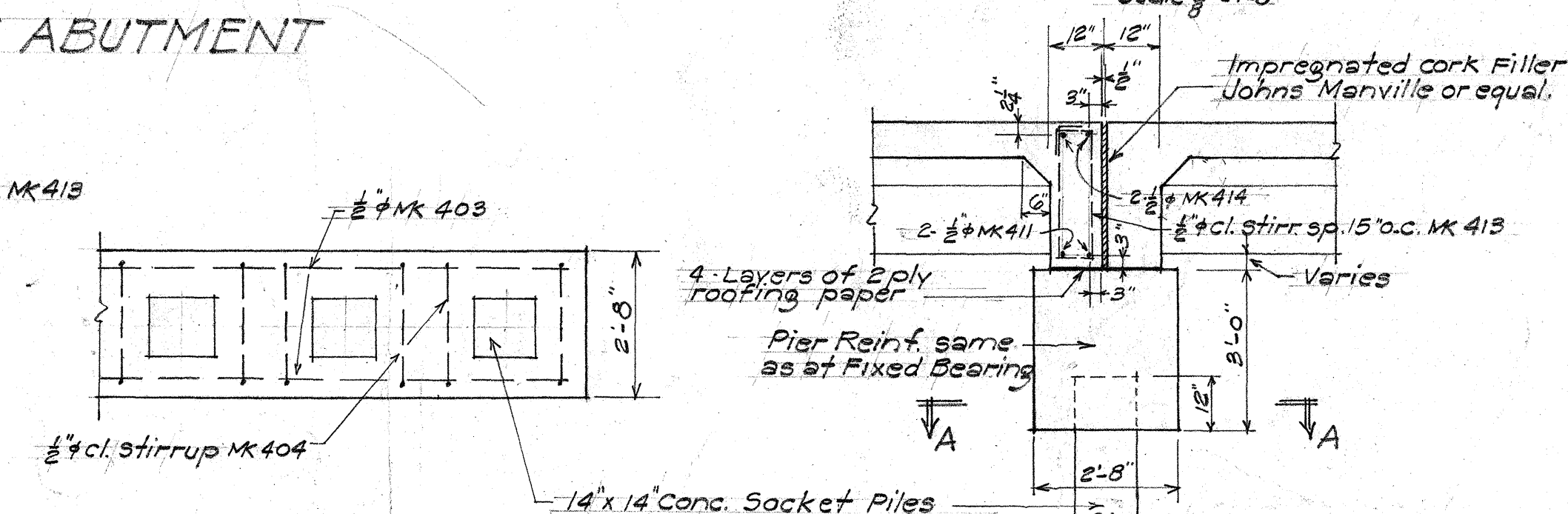
CAP REINF. PIERS NO. 2, 3, 4, 5 AND 6



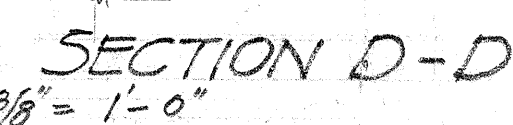
TRANSVERSE BEAM REINF AT PIER



SECTION A-A
scale 1/8" = 1'-0"

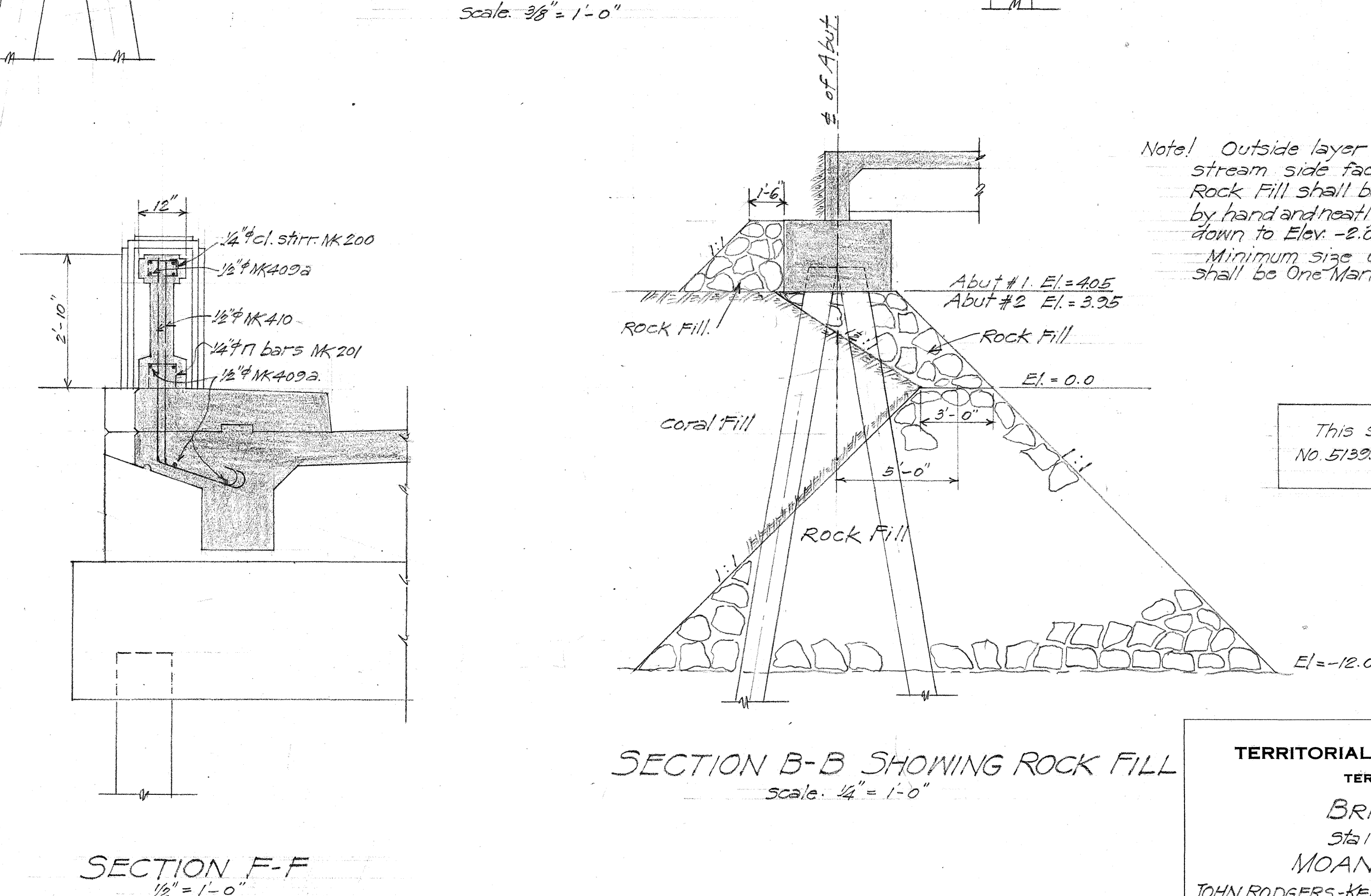
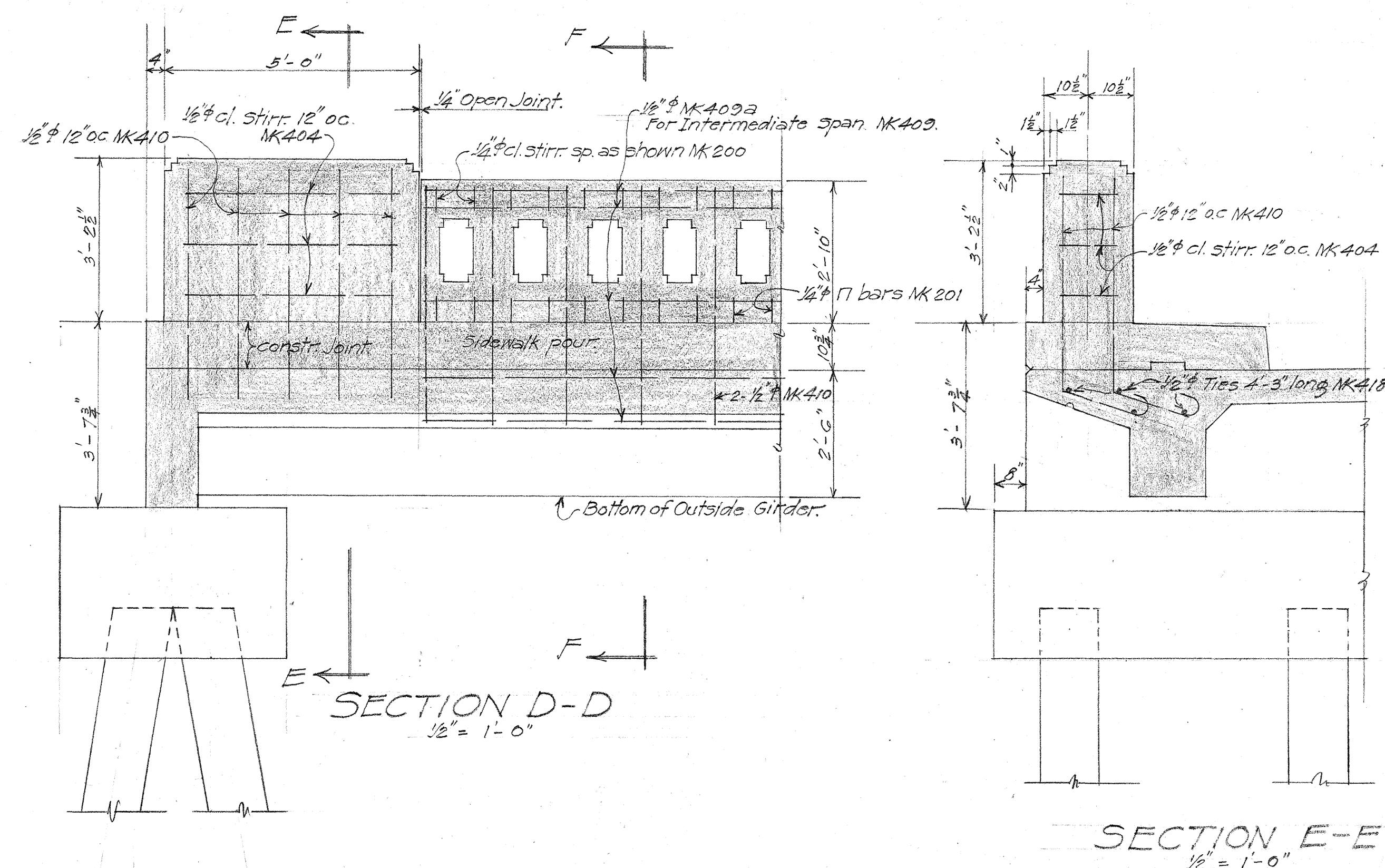
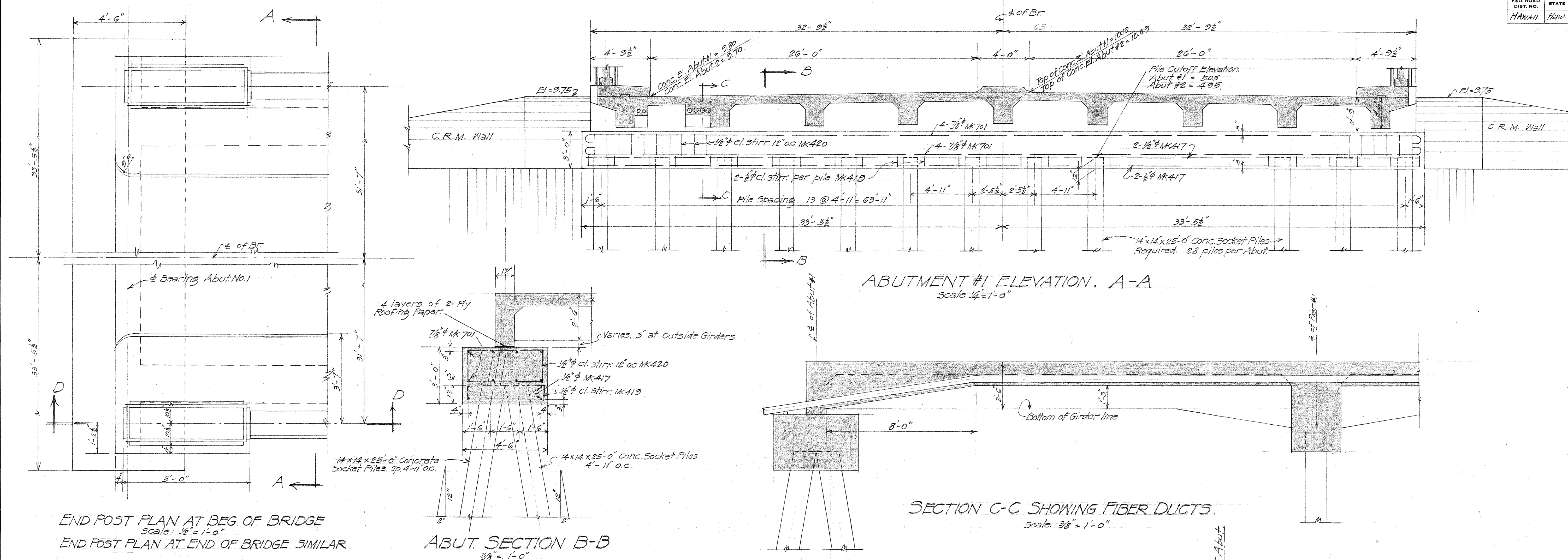


SECTION PIERS NO. 2 & 6.
EXPANSION BEARING
 $\frac{3}{8}'' = 1'-0''$



SHEET No 3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	DANR 106	1944	8	15



Note! Outside layer of the stream side face of the Rock Fill shall be placed by hand and neatly trimmed down to Elev. -2.0.

Minimum size of stone shall be One Man.

This sheet supersedes sheet
No. 5139.8 of original plans.

L

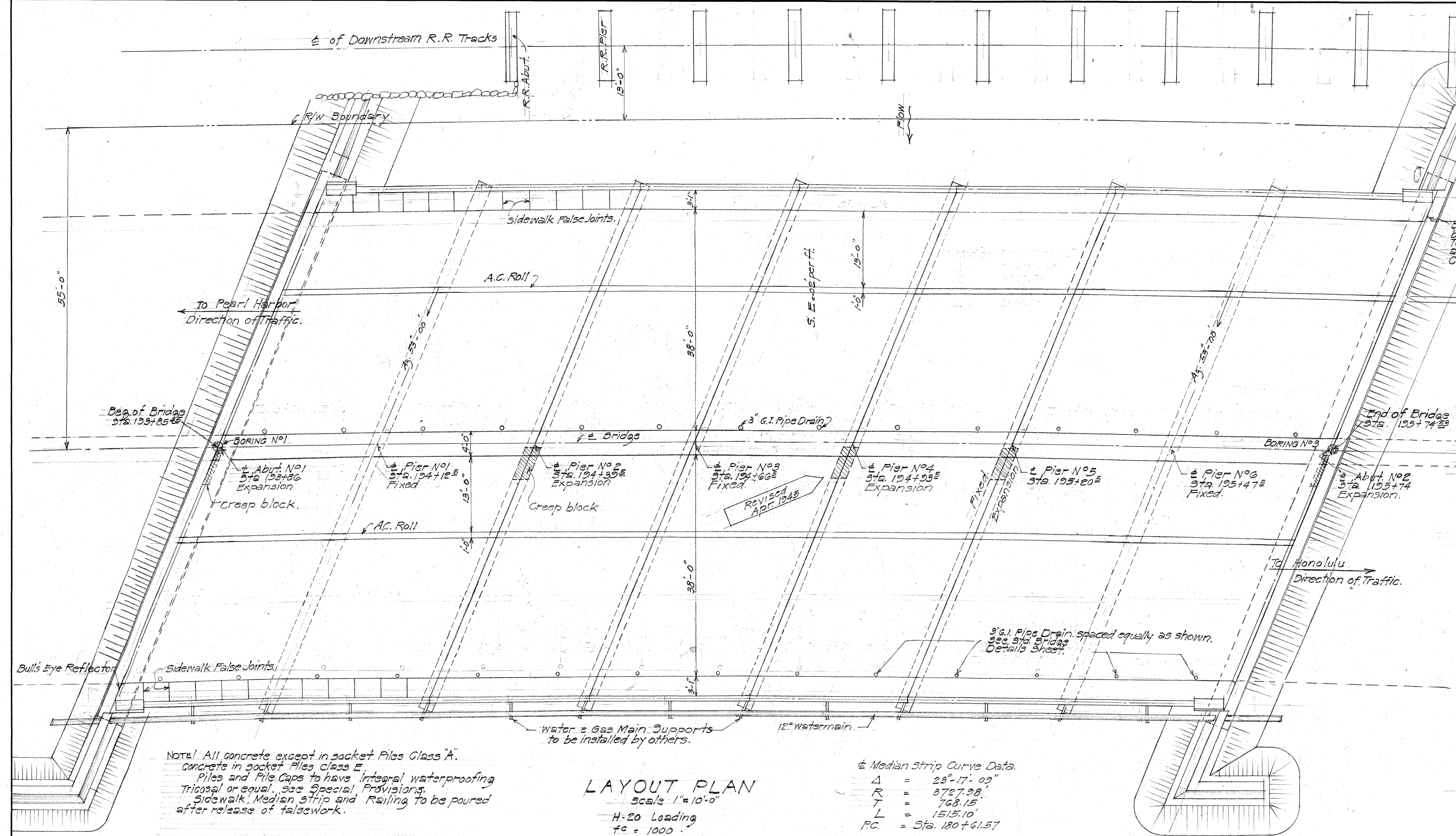
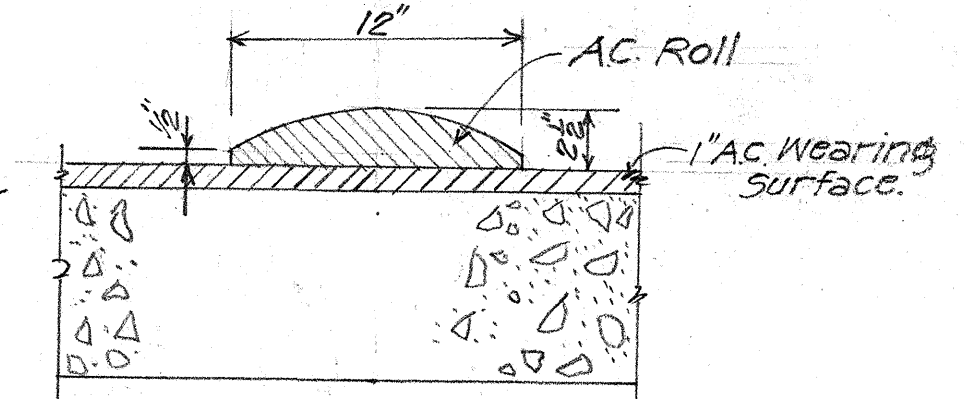
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 2
Sta 178+73 to Sta 180+89.
MOANALUA STREAM
JOHN RODGERS-KEEHI LAGOON DANIR-IOE
ACCESS ROAD
Jan. 1945

SHEET №42 OF 4 SHEETS

5139.5A

ORIGINAL PLAN	SURVEY PLOTTED BY DESIGNED BY DRAWN BY TRACED BY	DATE
	W. R. Batte's P. Yanasaba	4/19/47 BR 1946
NOTE BOOK	QUANTITIES BY QUANTITIES CHECKED BY	" "
	P. Yanasaba P. Y	" "
No.	CHECKED BY W. R. B.	" "

Revised: Jan. 1945
Apr. 1945

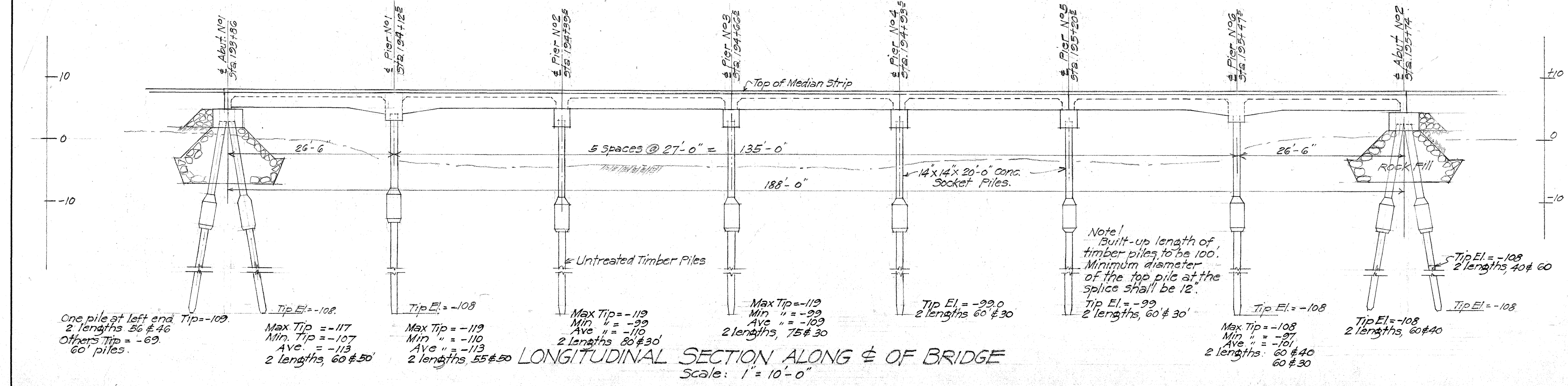


BORING DATA

Station	Soil Description	Depth (ft)
No. 1	Soft Mud	0-3
	Loose Gravel & Sand	3-6
	Soft Loose sand, Gravel & Rotten Wood	6-10
	Very soft clay, some material, 37 Moanua, 37 Moanua, 37 Moanua	10-12
	Fairly compact sand, clay & Rotten Wood	12-15
No. 3	Soft Soil	0-1
	Loose sand, gravel & Rotten Wood	1-2
	Very soft clay	2-3

ESTIMATED QUANTITIES

Item	Superstr.	Piers	Abut.	Railing & End Post.	Total
Class "A" Conc.	885.83 CY	108.37 CY	97.10 CY	25.63 CY	1,116.93 CY
Reinf. Steel	199,093 lbs	10,861 lbs	6,182 lbs	4,580 lbs	219,616 lbs
Str. Exc.			1700 CY		1700 CY
14x14x20-0 Conc. Socket Piles		174 pcs.	84 pcs.		258 pcs.
Untreated Timber Piles		17,400 Lin Ft.	8,400 Lin Ft.		25,800 Lin Ft.
Rock Fill			1,520 CY		1,520 CY
C.R.M.			37.6 CY		37.6 CY
1" AC Wearing Surface					89.8 Tons
A.C. Roll					2.5 Tons



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

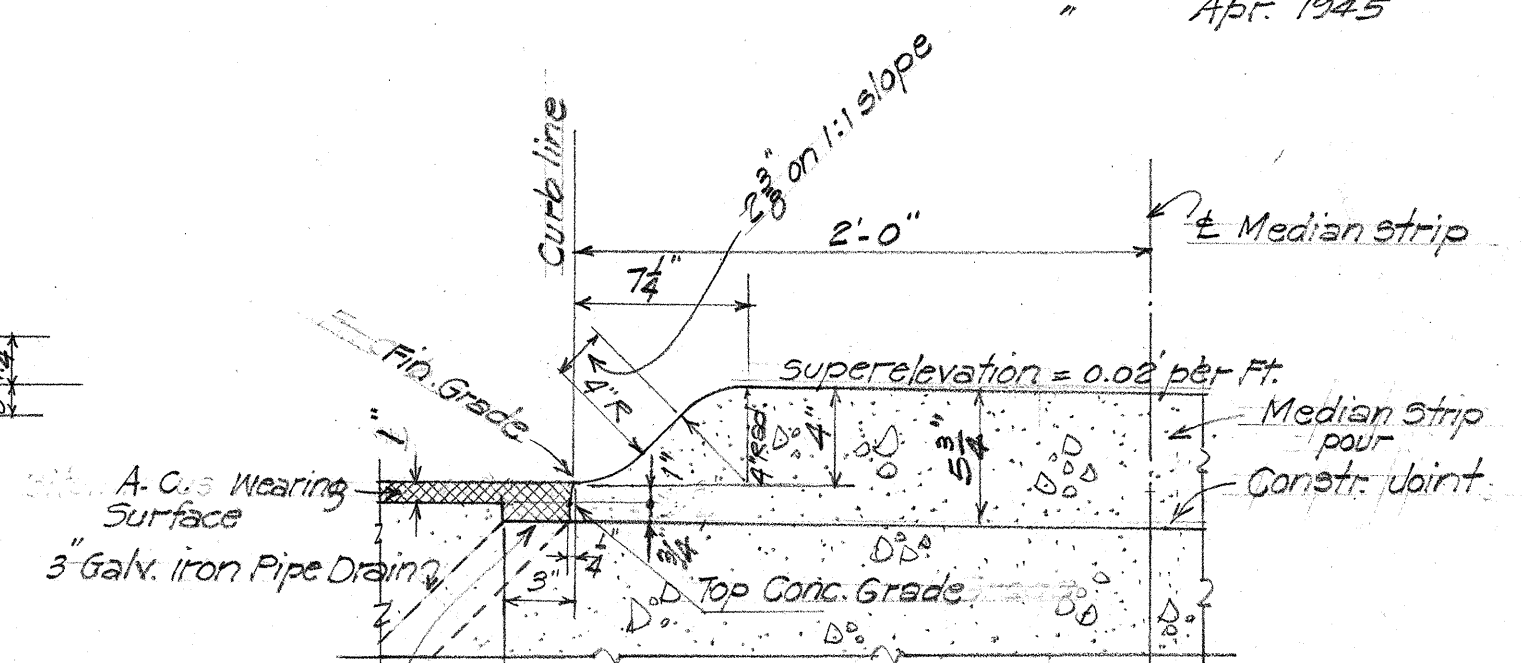
BRIDGE NO. 1
Sta. 123+35.4 to Sta. 125+74.5

KALIHI STREAM

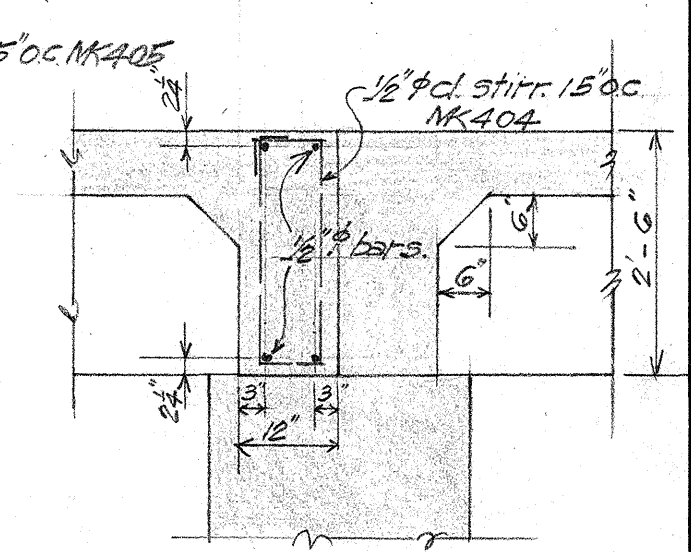
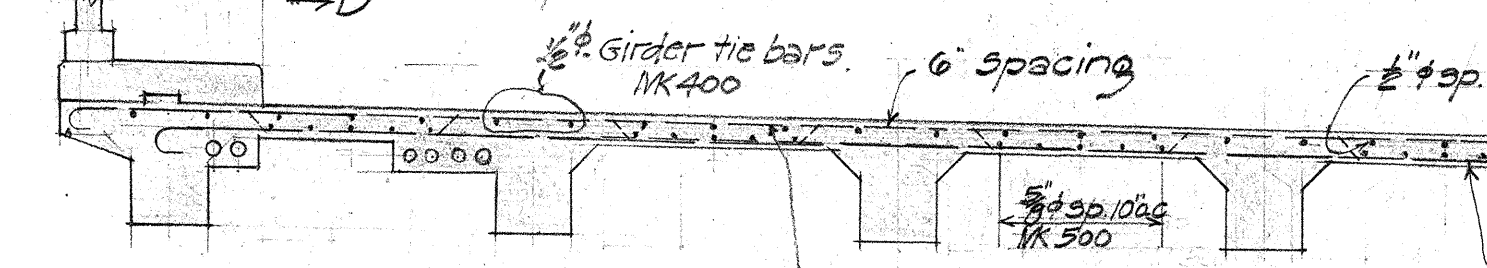
JOHN RODGERS KEELI LAGOON
ACCESS RD. DANR 10E(2)
June 1944

SHEET NO. 1 OF 8 SHEETS

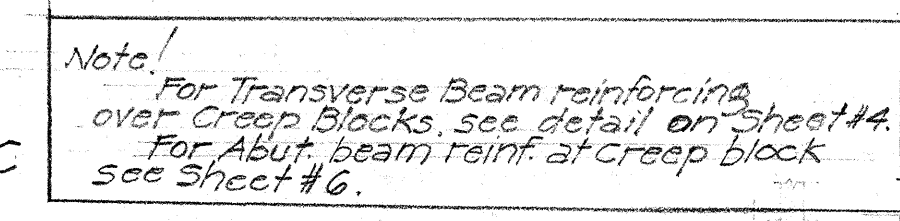
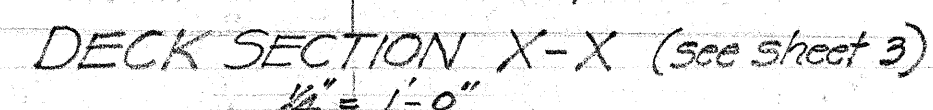
5139.9



DETAIL OF MEDIAN
STRIP
369/8 1/2 = 1'-0"



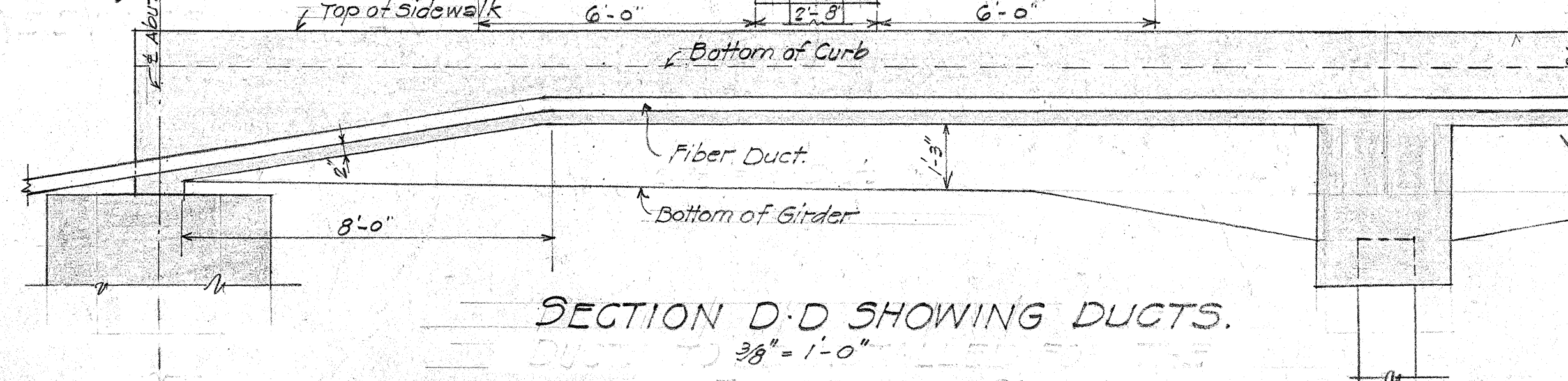
SECTION C-C.
1/2" = 1'-0"



TRANSVERSE BEAM REINF.
OVER PIERS #2, 3, 4, & 5



SECTION D-D SHOWING DUCTS.

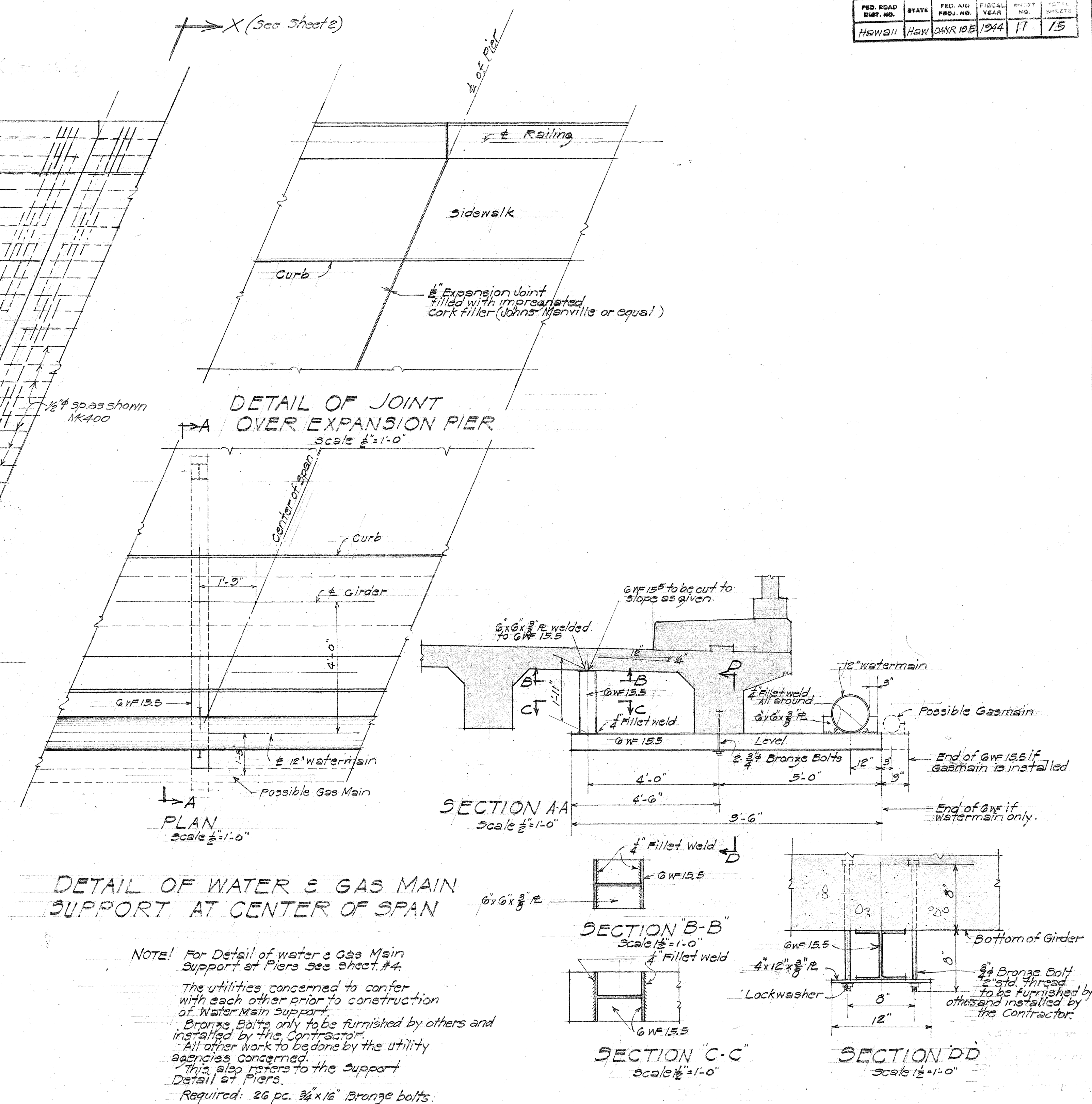


SHEET N° 2 OF 8 SHEETS

Original: 2015.05.05. Improved. New Revision:
 Girder Reinf for 2 Spans at beginning and
 end of Bridge added.
 2nd Revision: Note regarding beam reinf.
 at creep blocks added.

No.	
NOTEBOOK	
CHECKED BY	WRB
QUANTITIES BY	P.R.Y.
TRAINED BY	D.K. Jongsomjit

SURVEY PLOTTED BY
 DESIGNED BY *M.R. Barteis*
 DRAWN BY *M.R. Yansingh*
 TRACED BY
 QUANTITIES BY *G.S.V.*
 CHECKED BY *W.R.B.*
 No.



NOTE! For Detail of water & Gas Main Support at Piers See Sheet #4.

The utilities concerned to confer with each other prior to construction of Water Main Support.

Bronze Bolts only to be furnished by others and installed by the Contractor.

All other work to be done by the utility agencies concerned.

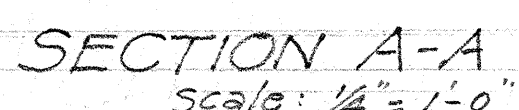
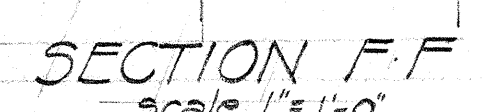
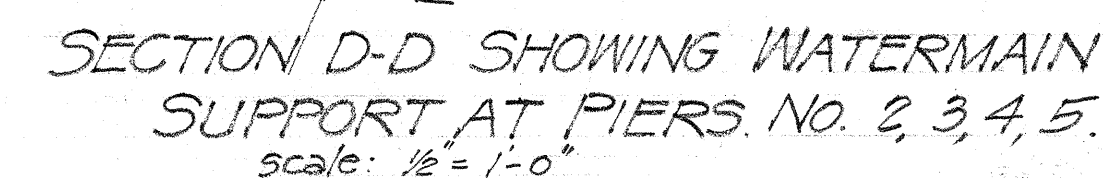
This also refers to the Support Detail at Piers.

Required: 26 pc. 3/4" x 16" Bronze bolts.

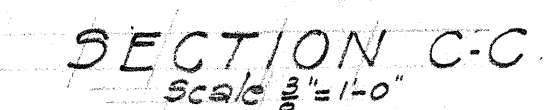
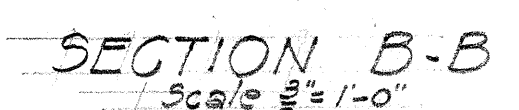
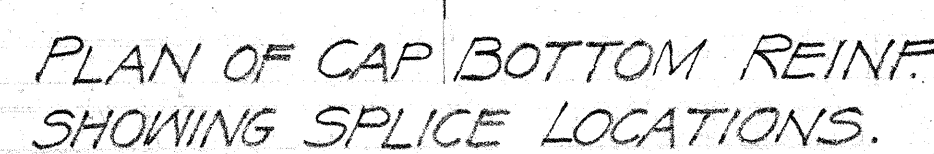
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO 1
Sta. 123485¹⁵ To Sta 125474⁵³
KALIHI STREAM
JOHN RODGERS KEEHI LAGOON
ACCESS- RD. DAN R 101E(2)
June, 1944

SHEET N° 3 OF 8 SHEETS

5139.11



PLAN H-H OF CAP TOP REINF.
SHOWING SPLICE LOCATIONS.

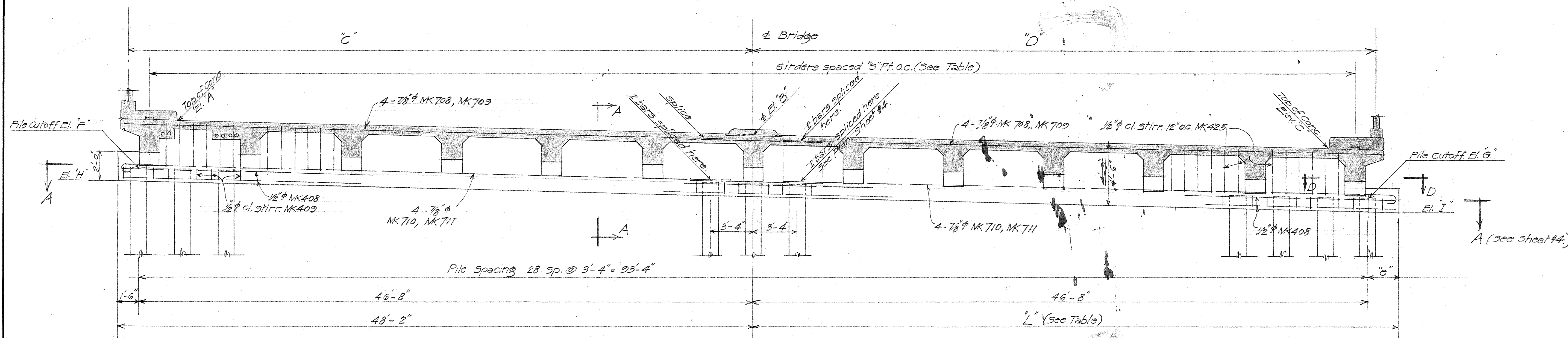


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO 1
Sta. 123+65⁴⁵ to Sta 123+74⁵³
KALIHI STREAM
JOHN RODGERS KEEHI LAGOON DAN R/O E (2)
ACCESS RD
June 1944

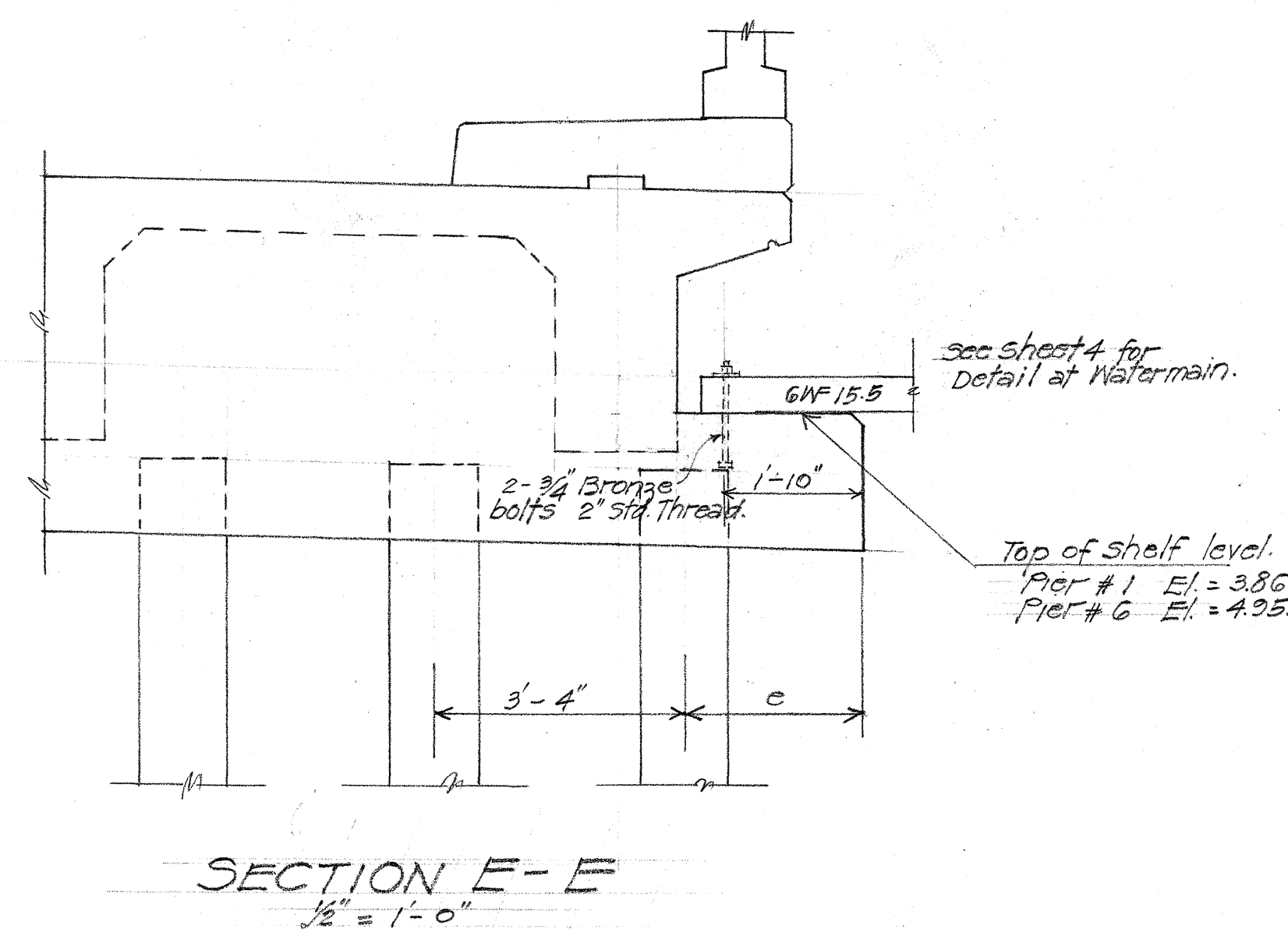
NOTES BOOK	DATE	BY	QUANTITIES	CHECKED BY	REVISION
		EWB	255	NRB	2nd Revision:
Bottom of cap and tie coat elev. for Pier #1 and #6 changed Section for Pier #5 added Creep blocks added to piers #2, 4, & 5.					

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	DANR 10E(2)	1944	12A	15

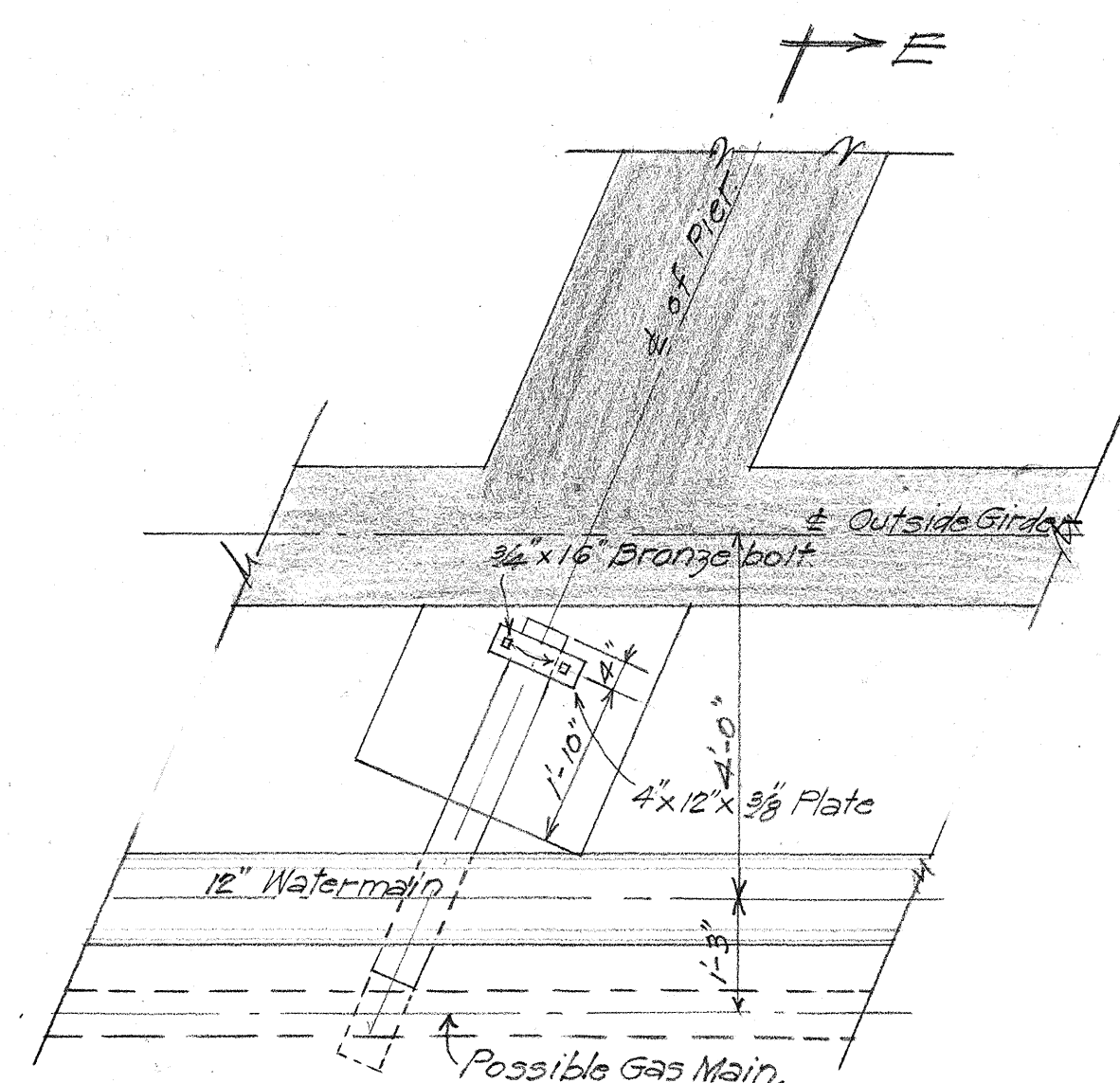
Revised: June 1945



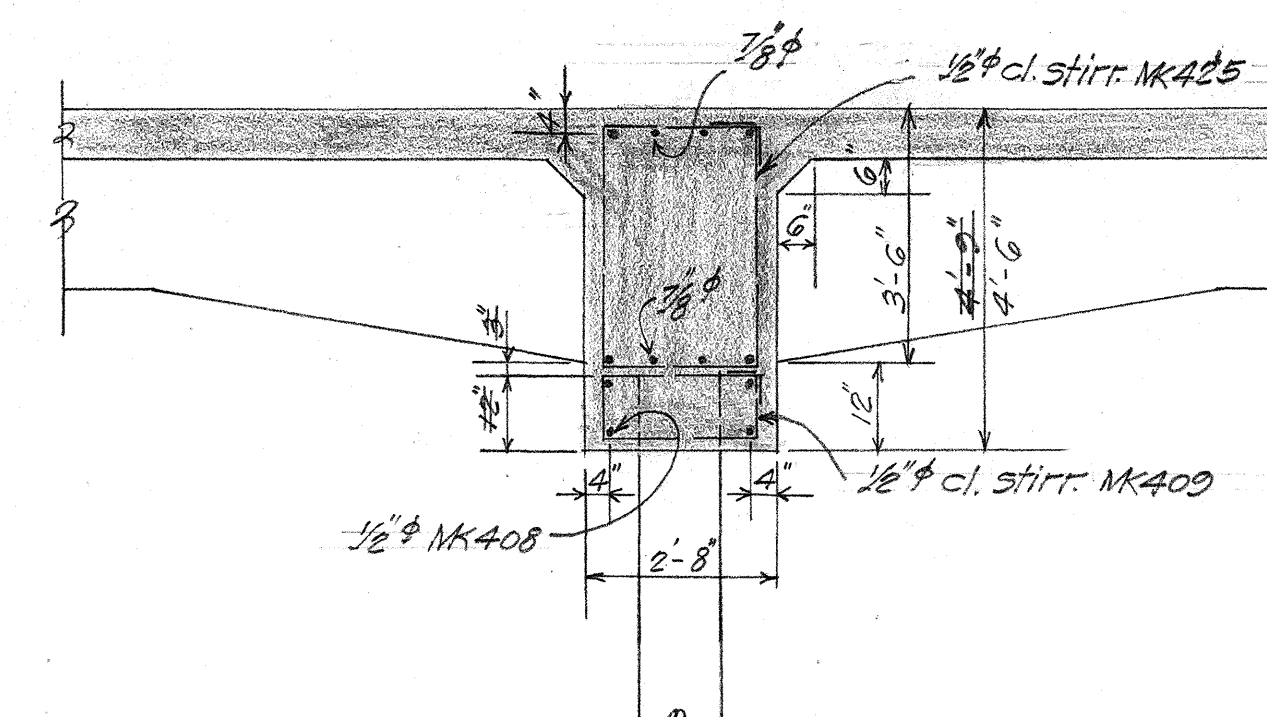
ELEVATION PIERS NO. 1 AND 6
4" = 1'-0"



SECTION E-E
1/2" = 1'-0"



SECTION D-D SHOWING WATERMAIN SUPPORT AT PIERS NO. 1 & 6.



SECTION A-A
3/8" = 1'-0"

This sheet is an addition to the original plans.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE No. 1
Sta 123 + 15.45 to Sta 125 + 74.53
KALIHI STREAM
JOHN RODGERS KEEHI LAGOON DANR 10E(2)
ACCESS ROAD

Jan. 1945
SHEET No 5 OF 8 SHEETS

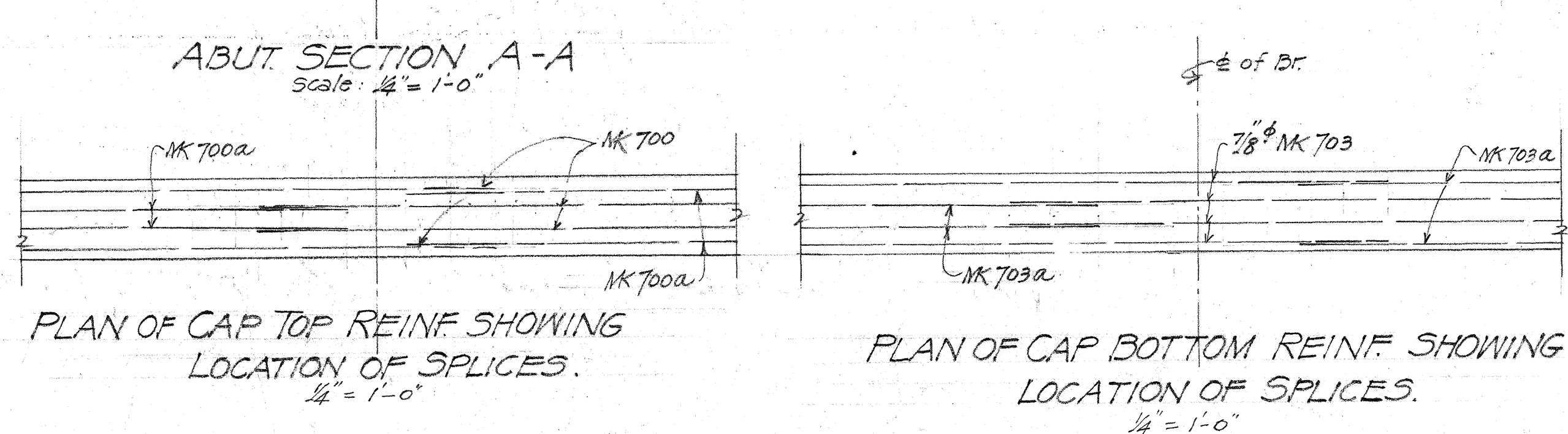
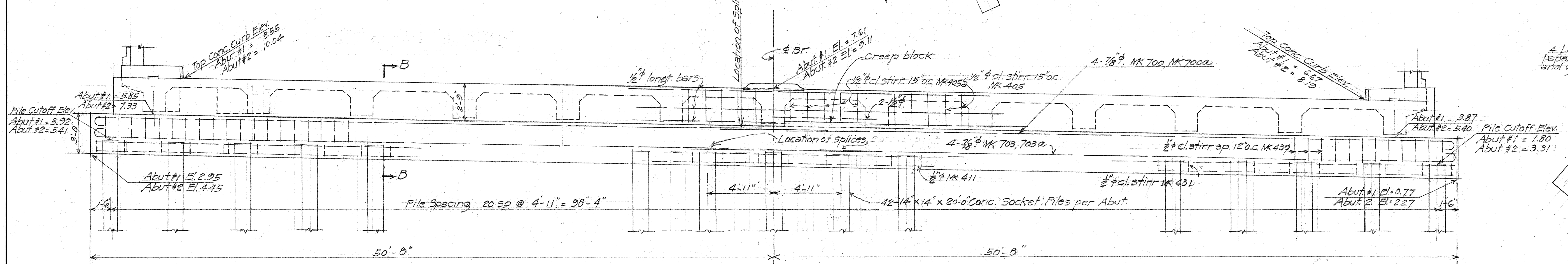
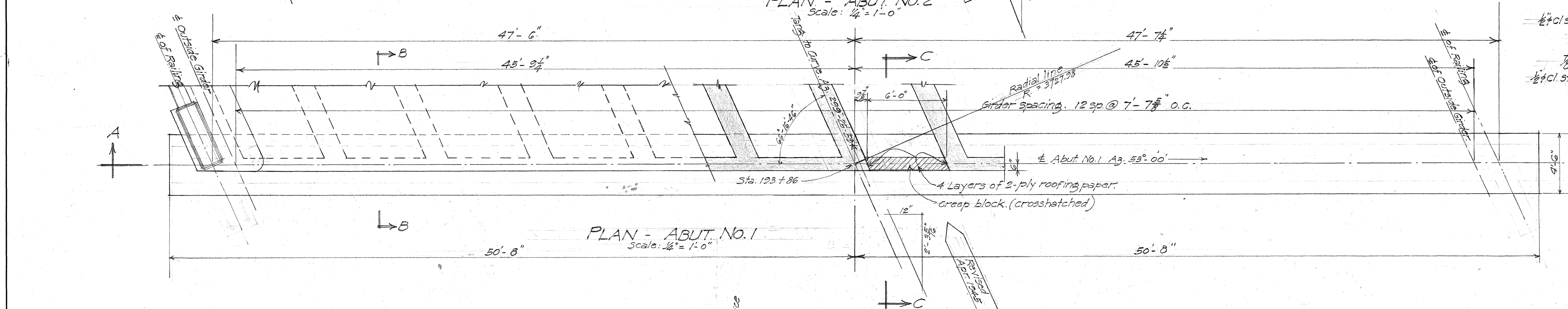
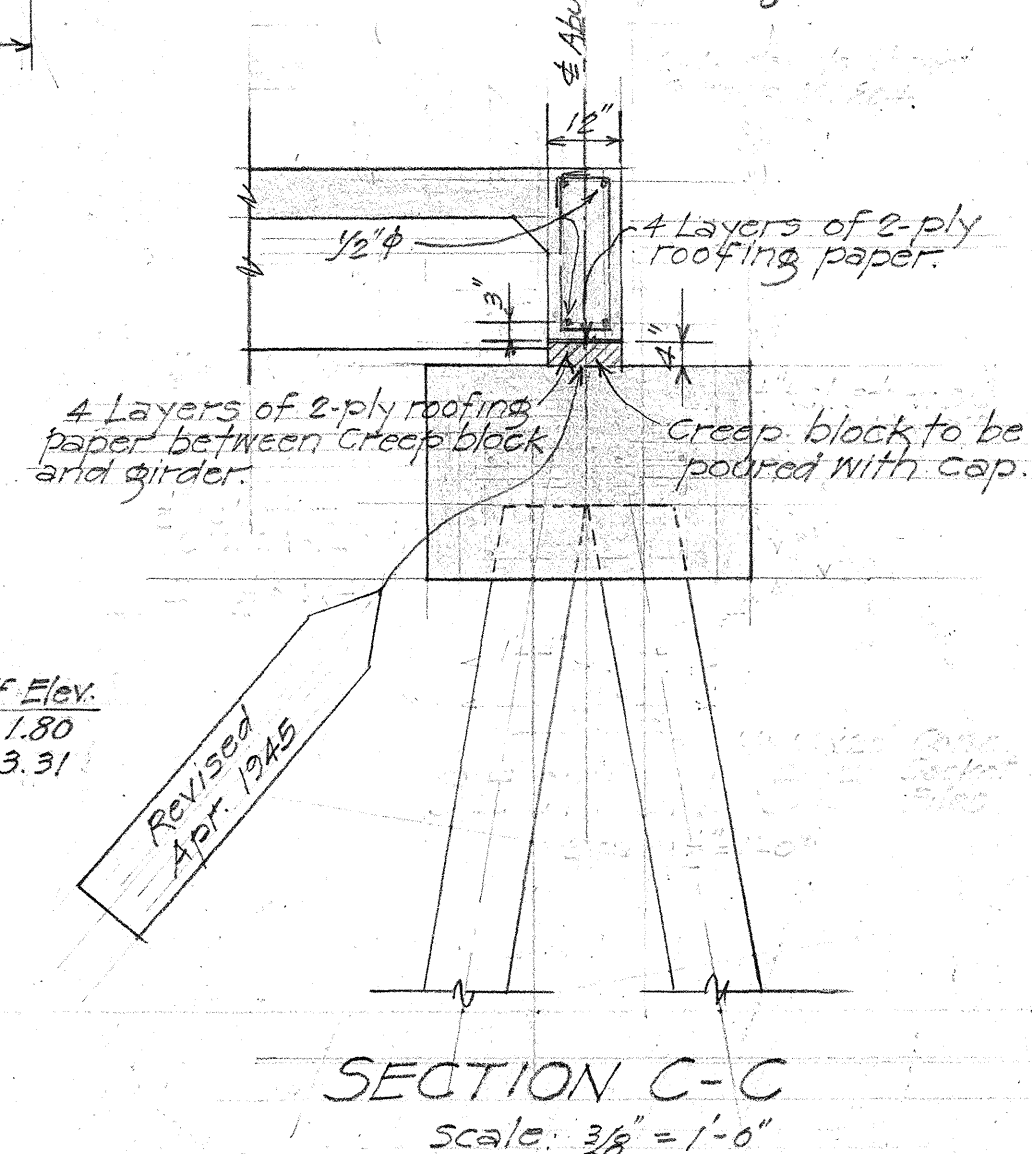
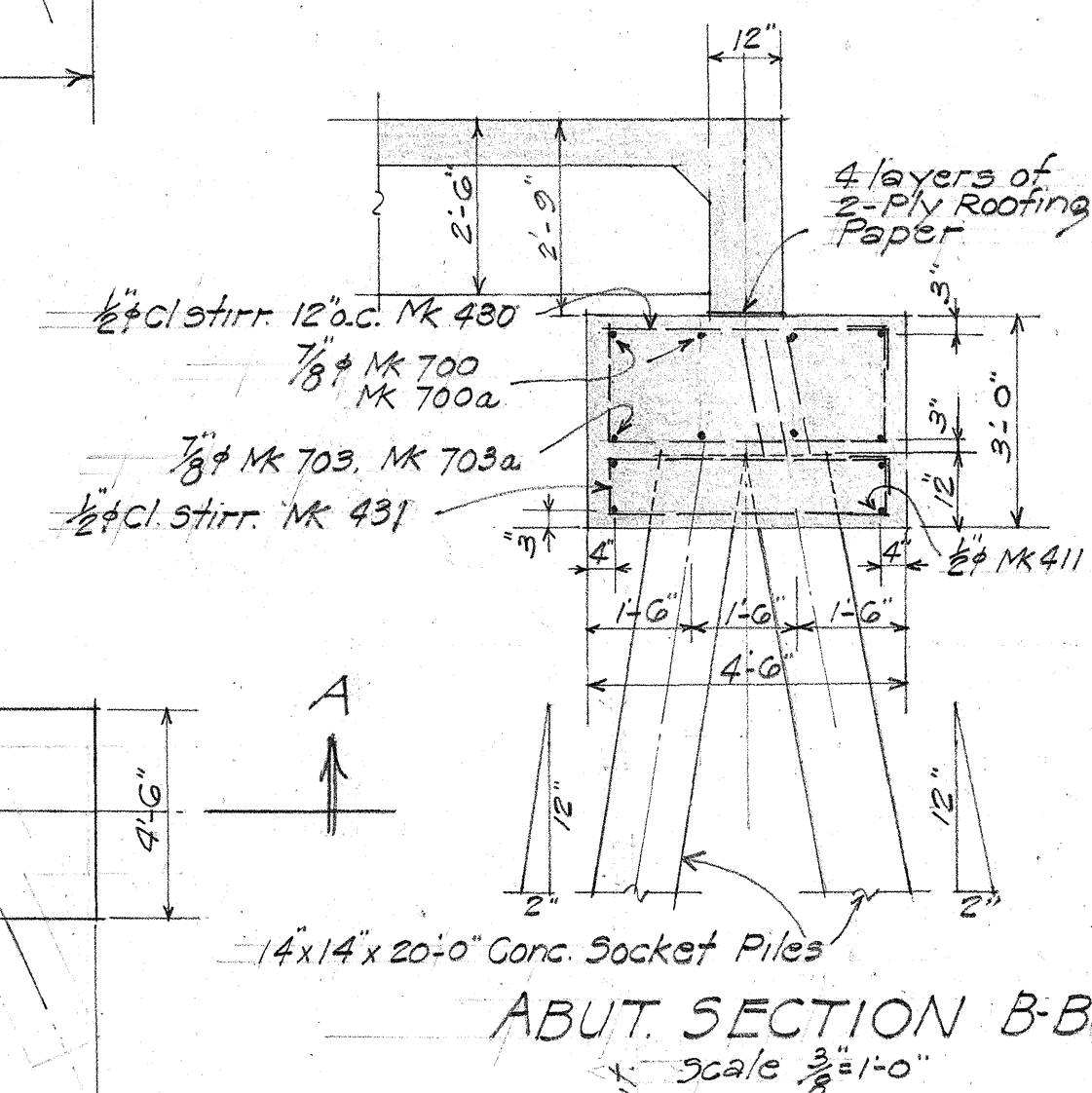
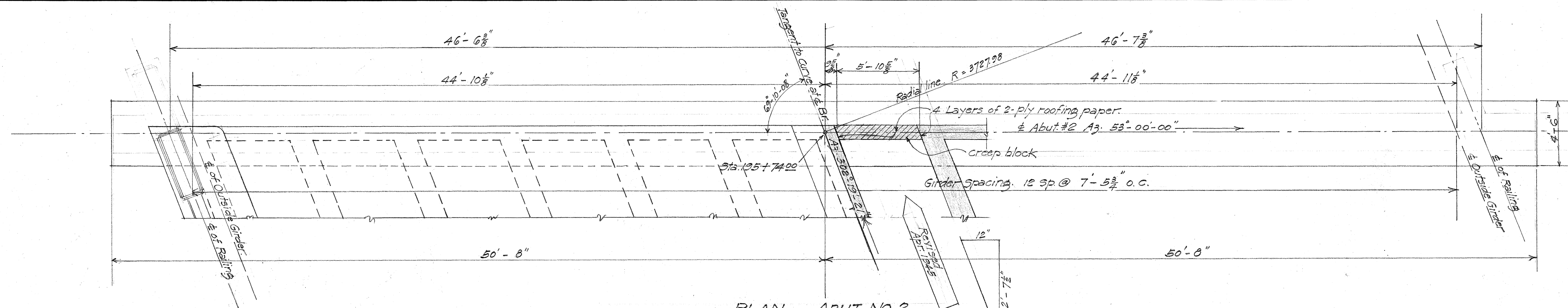
5139.12 A

Revision: Change made in dimension of Pier depth.

ORIGINAL PLAN	NOTE BOOK
DESIGNED BY: [Signature]	DATE: [Date]
TRACED BY: [Signature]	DESIGNED BY: [Signature]
QUANTITIES BY: [Signature]	TRACED BY: [Signature]
CHECKED BY: [Signature]	QUANTITIES BY: [Signature]
CHECKED BY: [Signature]	CHECKED BY: [Signature]

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Hawaii	DANR 100	1944	13	15

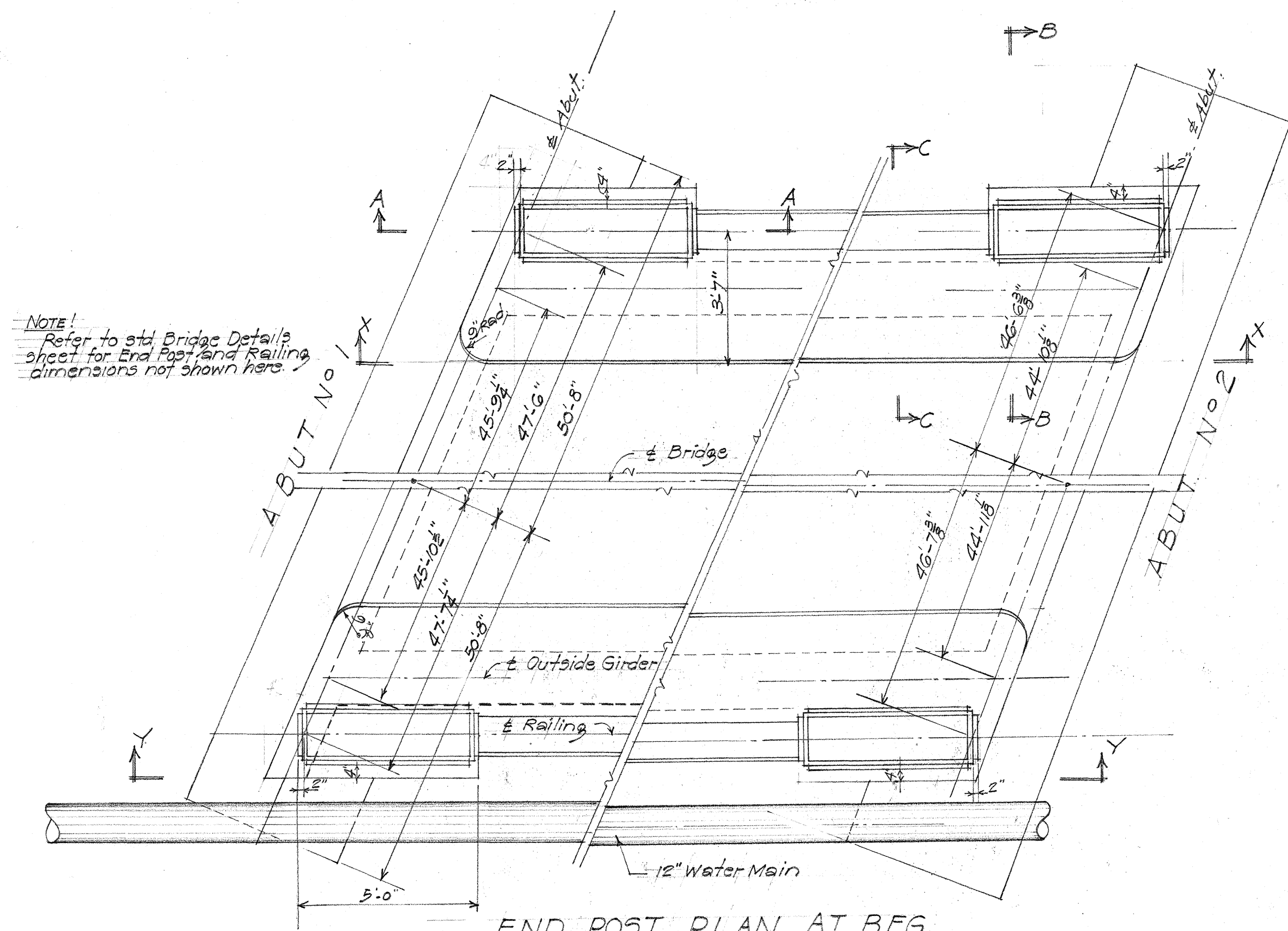
Revised: Jan. 1945.
" Apr. 1945



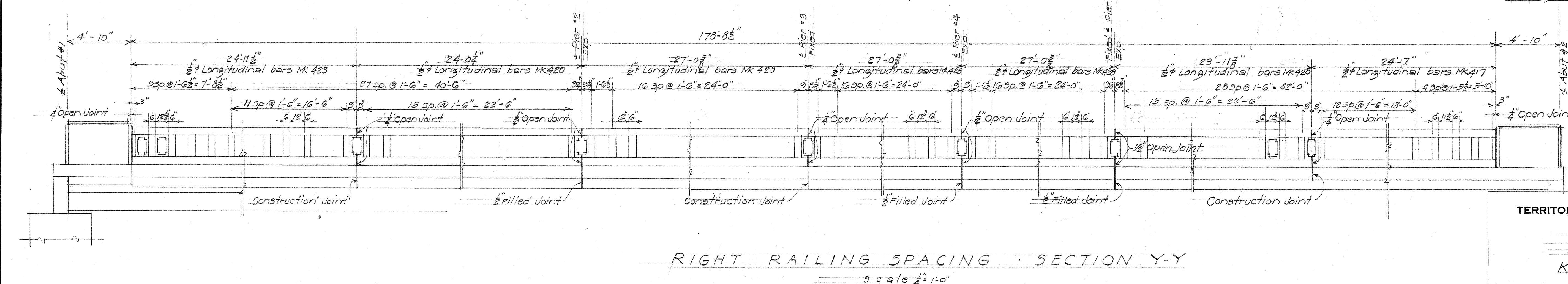
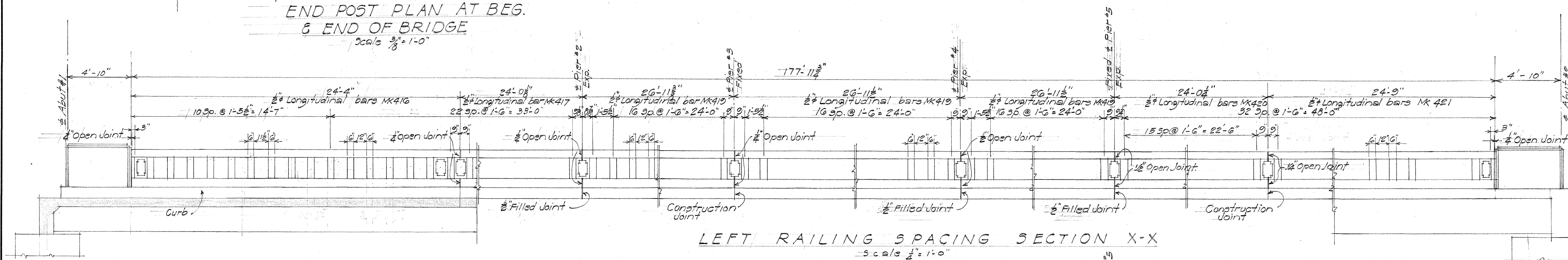
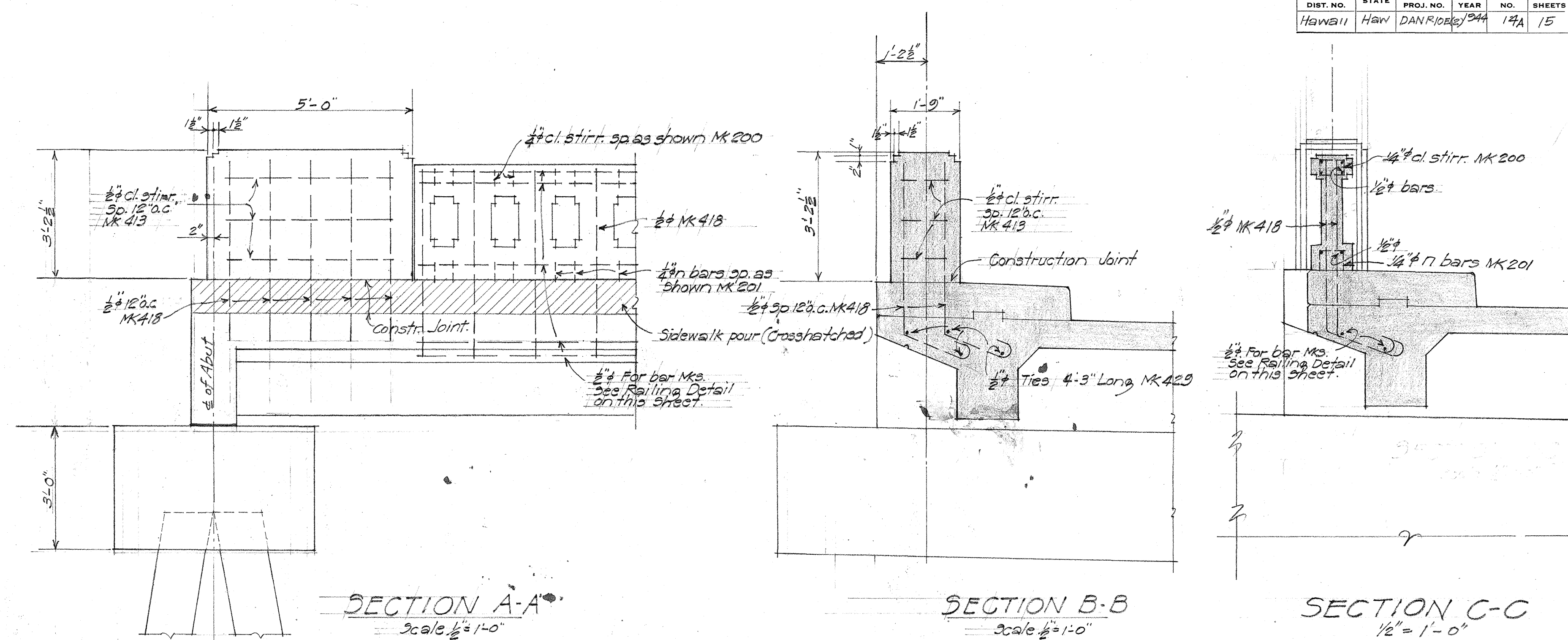
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 1
31a, 193+85 to 31a, 195+74.53
KALIHI STREAM
JOHN RODGERS KEEHI LAGOON
ACCESS RD. June 1944
DANR 100 (2)
SHEET NO. 6 OF 8 SHEETS

5139.13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
Hawaii	HAW	DAN R10E(2)	944	17A	15



END POST PLAN AT BEG.
S END OF BRIDGE



This sheet supersedes
sheet No. 5/39.14 of original
plans.

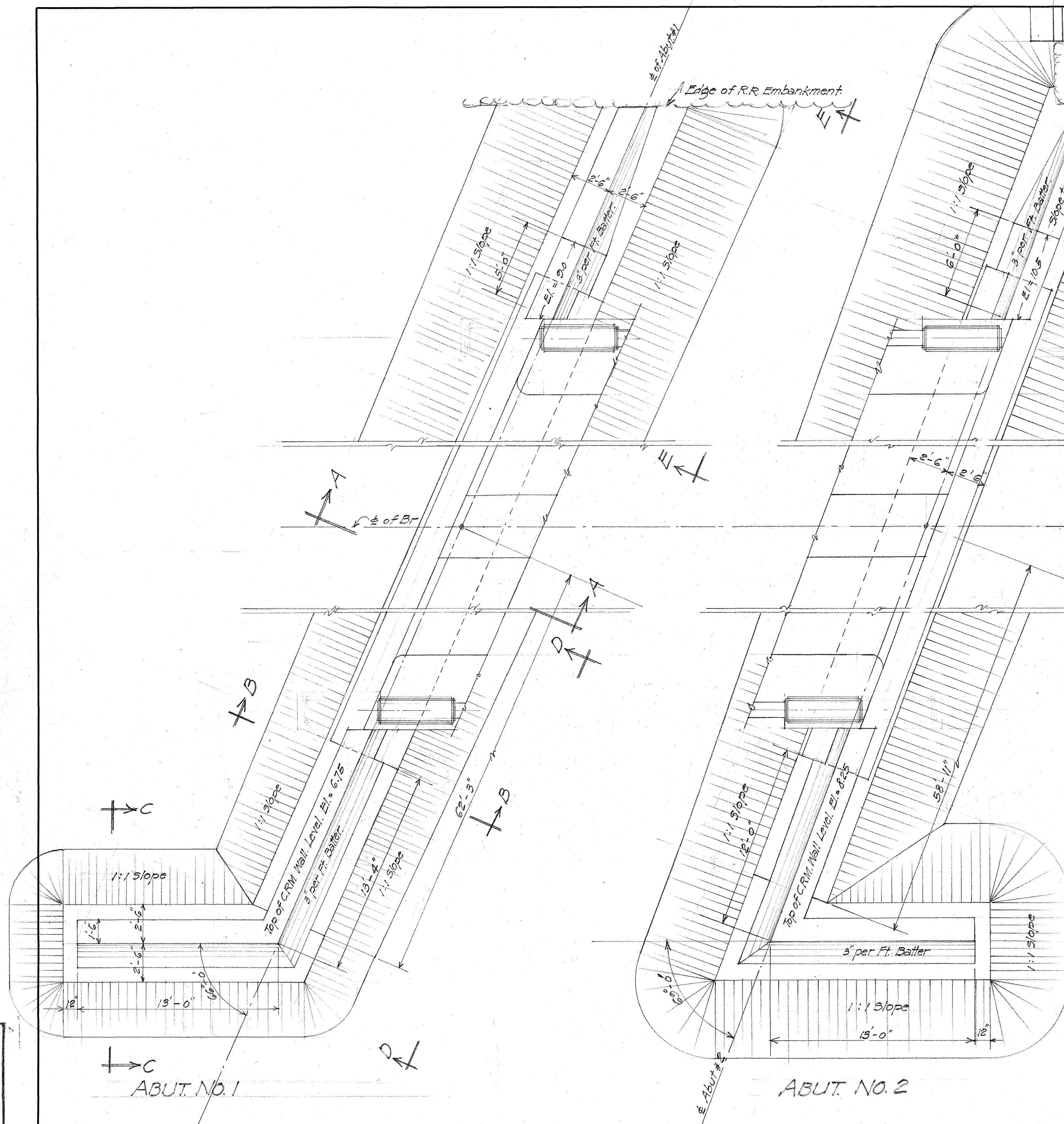
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO 1
Sta. 193+85.45 to Sta. 193+74.23
KALIHU STREAM
JOHN RODGERS KEEHI LAGOON DANIR JOE
ACROSS RD. June 1944

SHEET № 7 OF 8 SHEETS

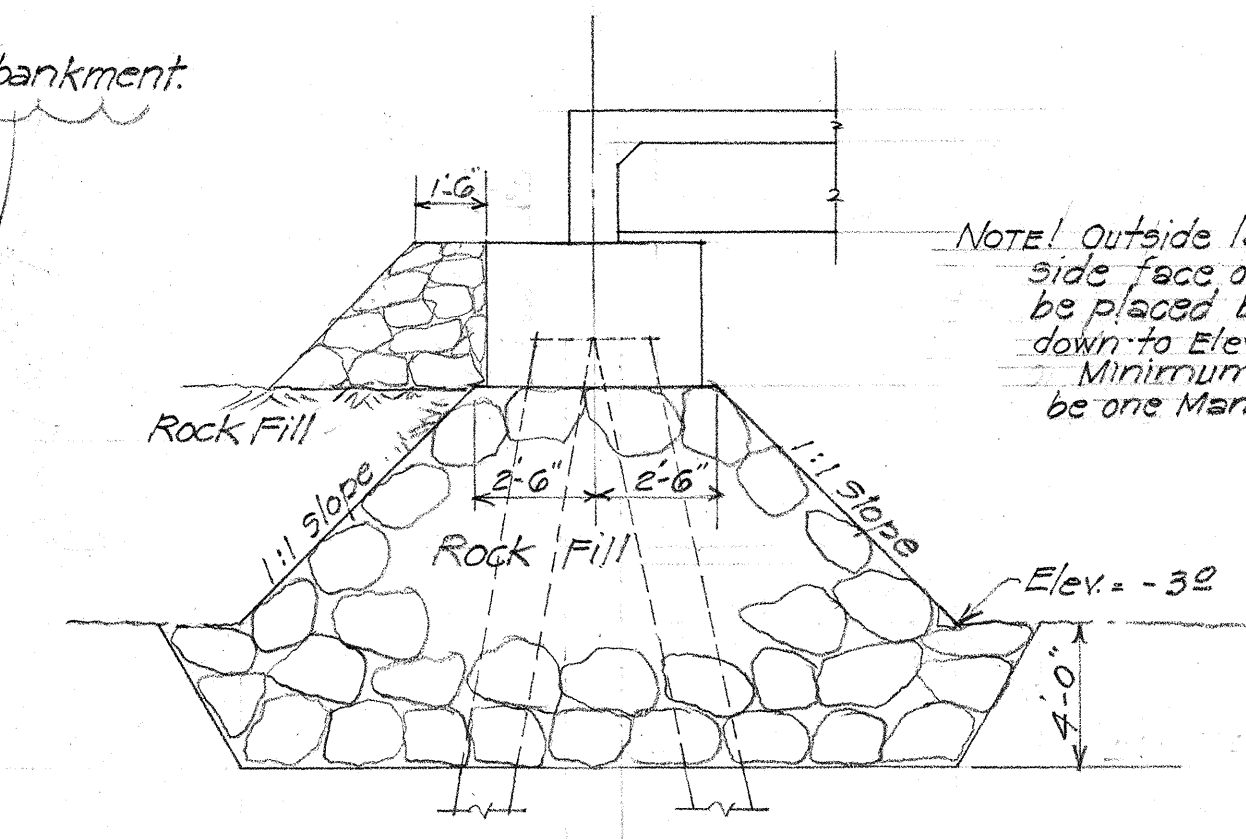
5139214A

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
144511	HAWAII	DANR 1062	1944	15	15

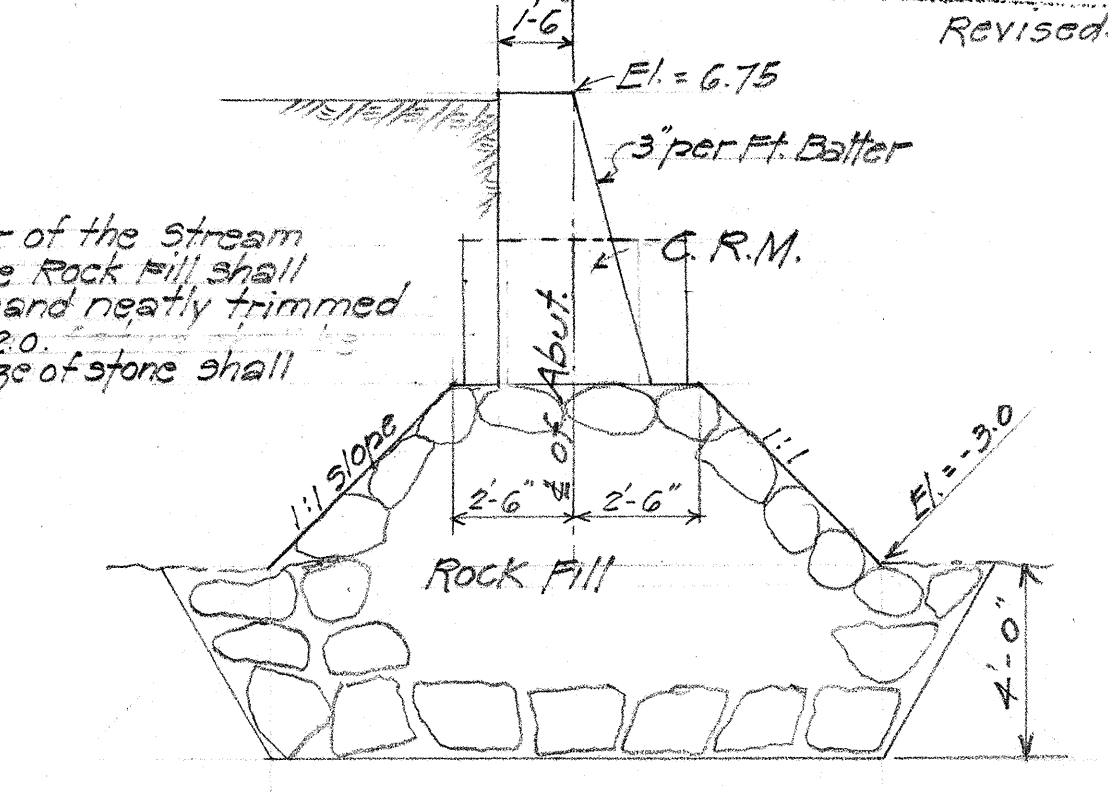
Revised: Jan. 1945



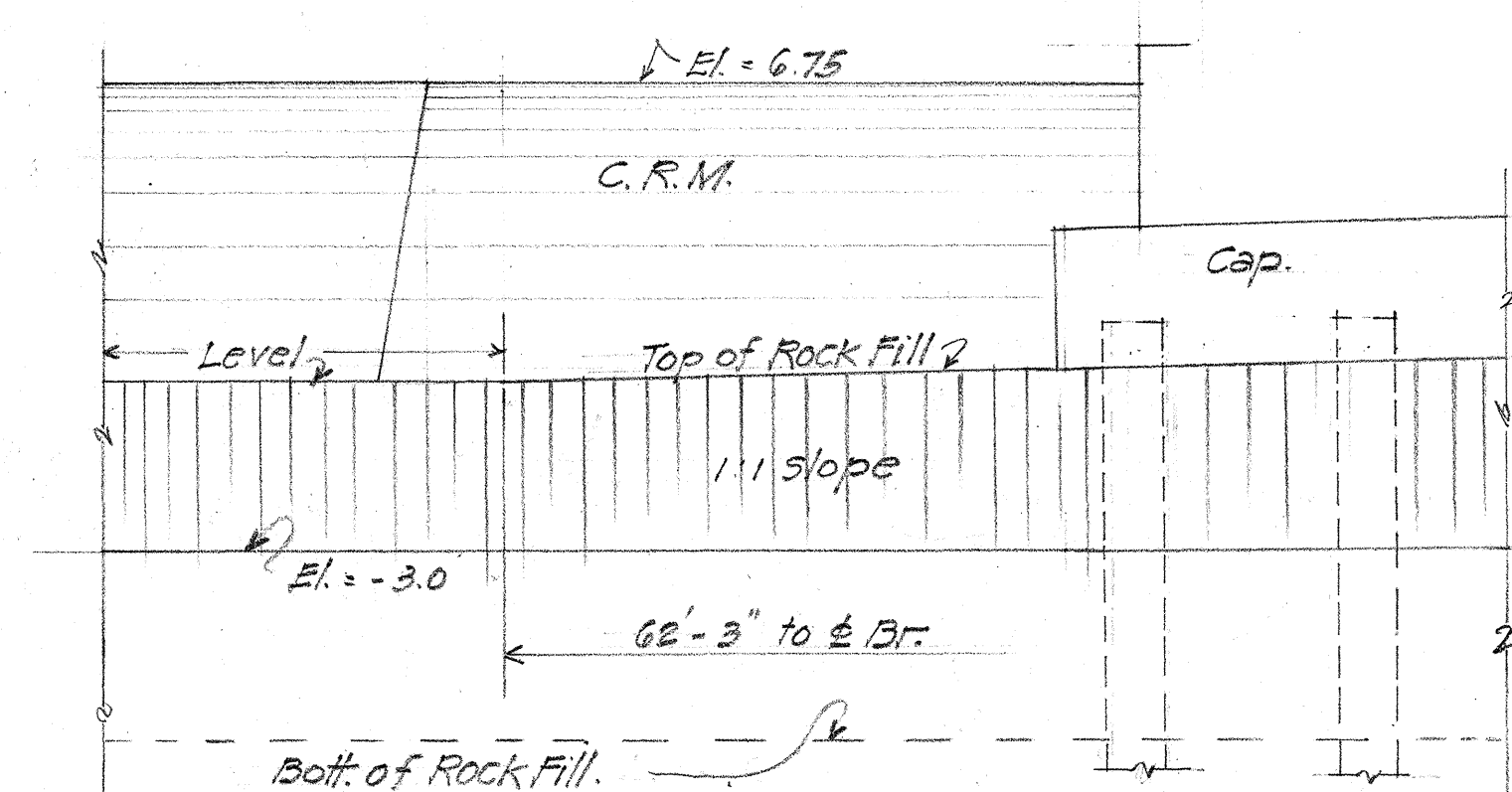
PLAN OF ROCK FILL AND C.R.M. WALL AT ABUT. Scale: $\frac{1}{4}'' = 1'-0''$



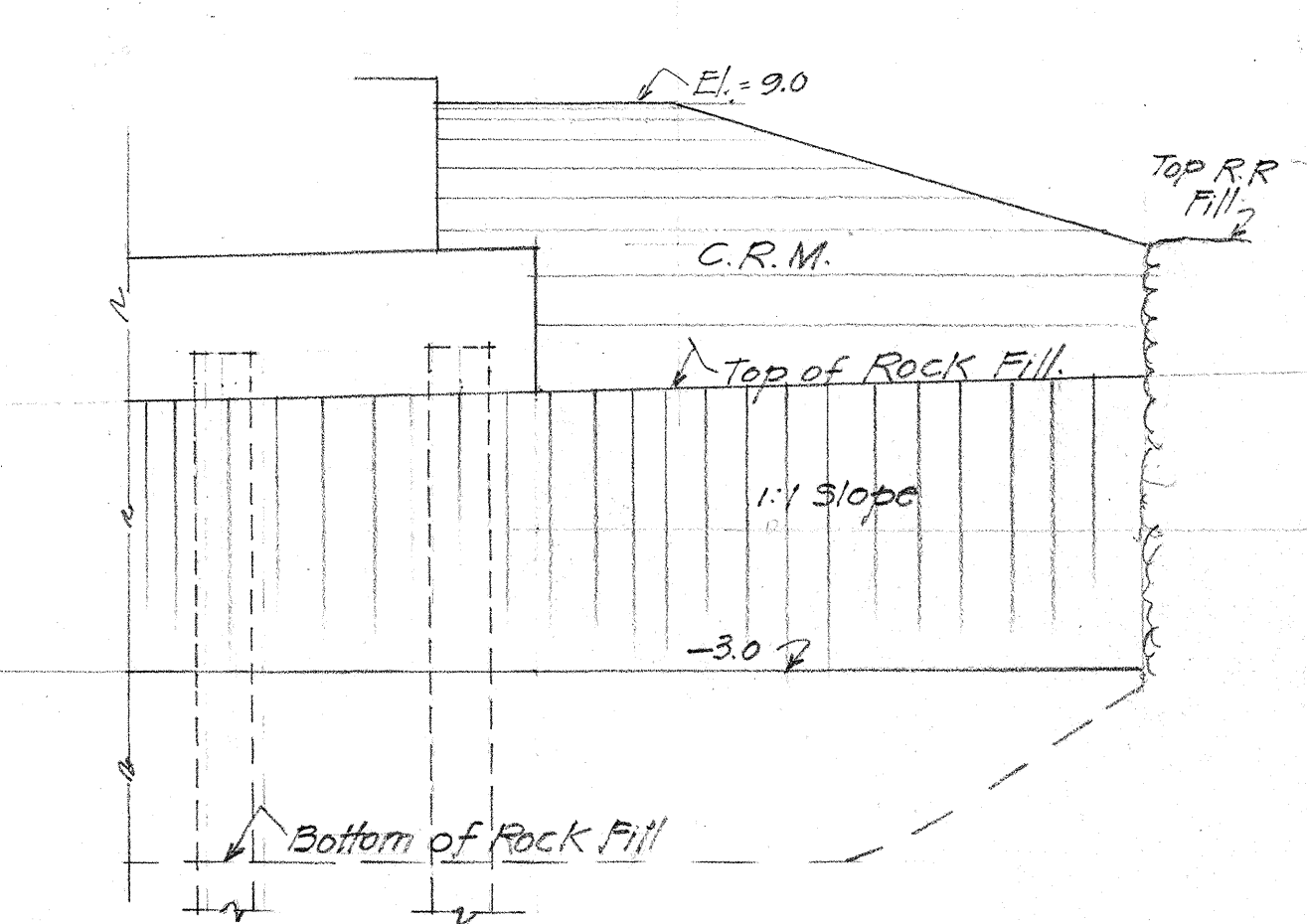
ABUT. SECTION A-A SHOWING ROCK FILL. Scale: $\frac{1}{4}'' = 1'-0''$



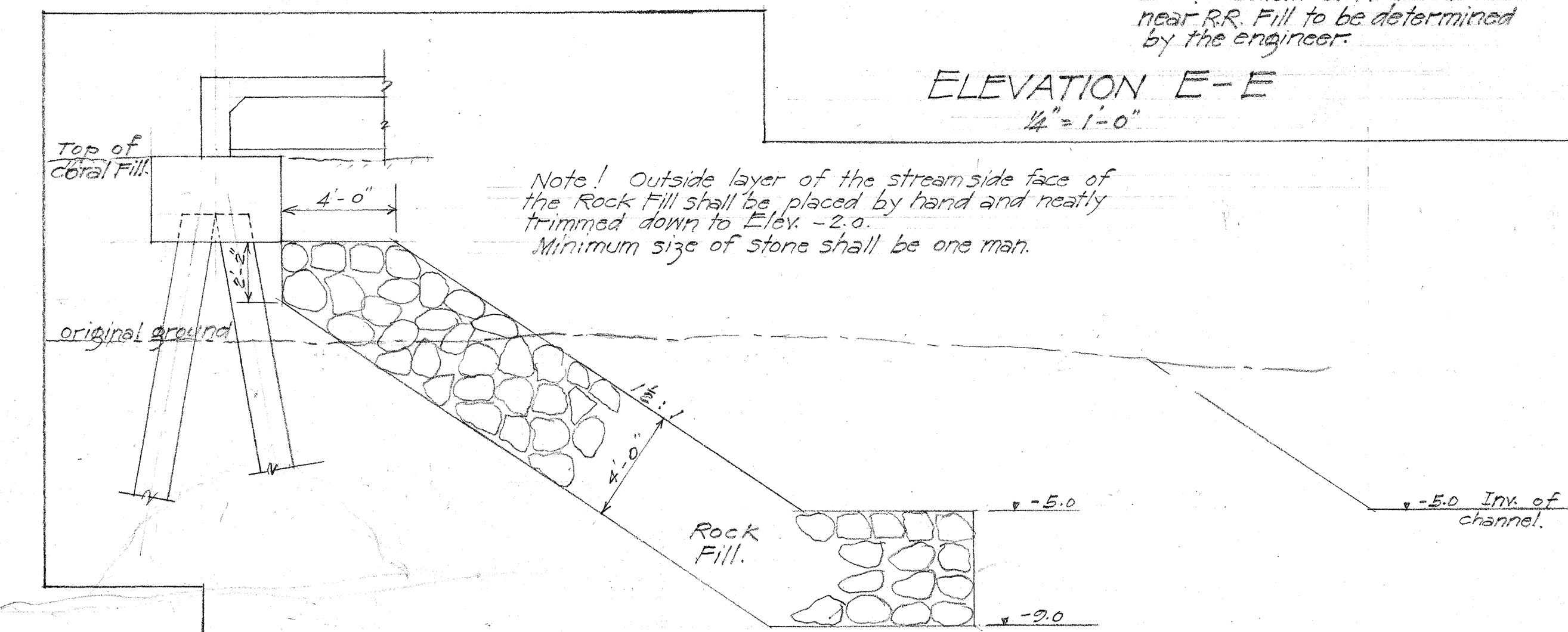
WINGWALL SECTION B-B Scale: $\frac{1}{4}'' = 1'-0''$



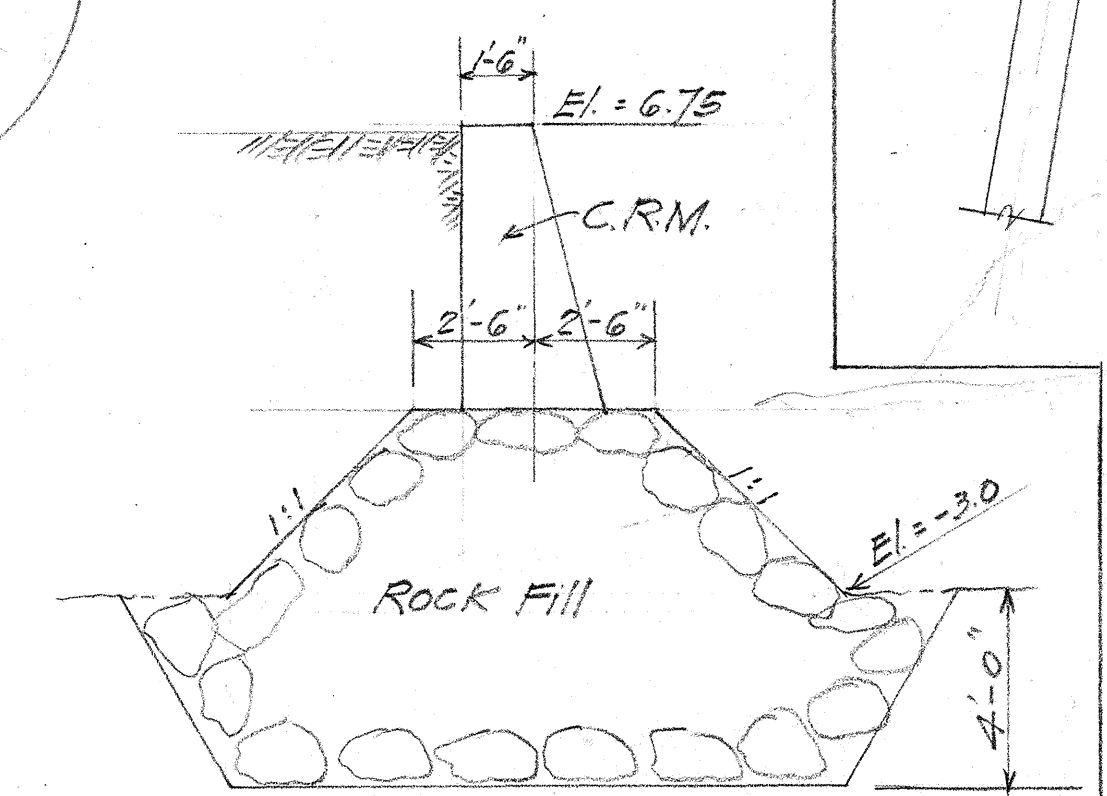
WINGWALL ELEVATION D-D Scale: $\frac{1}{4}'' = 1'-0''$



ELEVATION E-E Scale: $\frac{1}{4}'' = 1'-0''$



ABUT. SECTION SHOWING ROCK FILL. Scale: $\frac{1}{4}'' = 1'-0''$



WINGWALL SECTION C-C Scale: $\frac{1}{4}'' = 1'-0''$

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE No. 1
 STA. 193+54.5 TO STA. 195+74.53
KALIHI STREAM
 JOHN RODGERS-KEEHI LAGOON
 ACCESS RD. DANR 1062
 June 1944

SHEET No 8 OF 8 SHEETS

8139.15

Revision: End Post made to rest on deck.
 DATE: May 44
 DESIGNED BY: H. R. B. (H. R. B.)
 CHECKED BY: W. R. B.
 NO. 1