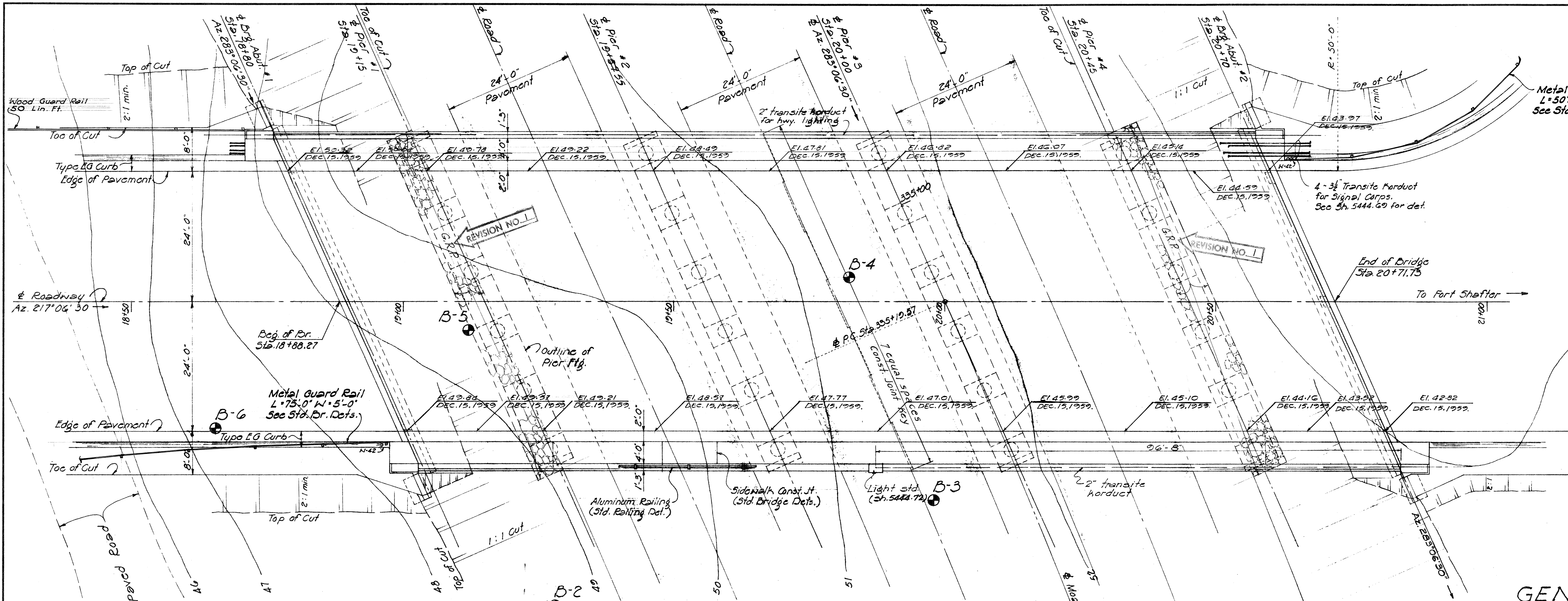


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50720	1958	67	109

REVISION

№1 April 27, 1959
G.R.P. within struct. limits on roadway cut.

Metal Guard Rail
L=50'-0" W=3'-0"
See Std. Br. Dets.



NOTE: For boring log - See Sht. 5444.72

LAYOUT PLAN

Scale = 1" = 10'-0"

GENERAL NOTES

DESIGN DATA:

H20-S-18-44 Loading
K = 20,000
L = 1,200
n = 10

MATERIALS:

All concrete class A-1.

CONSTRUCTION METHODS:

- Sidewalk and parapet shall be poured after release of falsework.
- All backfill behind abutments shall be complete in place before pouring concrete for the superstructure.

SPECIFICATION FOR ROLLED LEAD PLATE:

These plates shall be rolled from one or other material by process of reduction and refining. The use of reclaimed lead shall not be permitted. The material shall contain a minimum of 99.85% of lead and shall fulfill the requirements of the "Standard Specification for Pig Lead", ASTM Designation B-29.

ADMIXTURE:

Admixture of "Plastiment" or approved equal shall be added to concrete in accordance with manufacturer's recommendations.

NOTE!!

For estimated quantities see Sht. 5444.72

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

FT. SHAFTER SEPARATION

Sta. 18+88.27 to Sta. 20+71.75

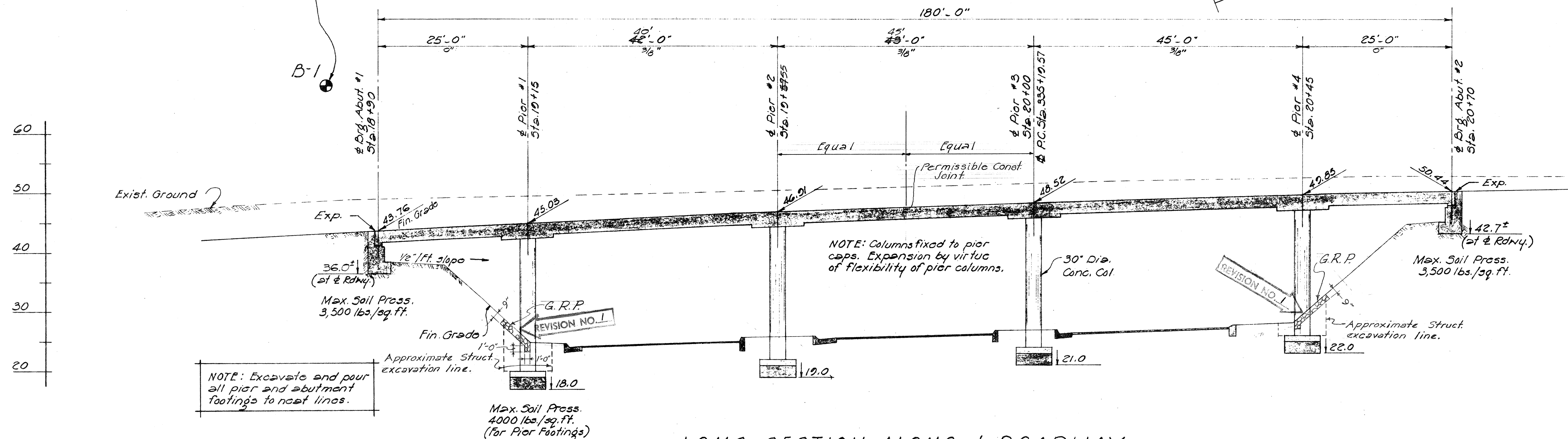
MOANALUA RD. S-0720 (1)

June 1957 Unit - 2

SHEET No. 1 OF 6 SHEETS

5444.67

This boring is part of Plan.



Scale = 1" = 10'-0"

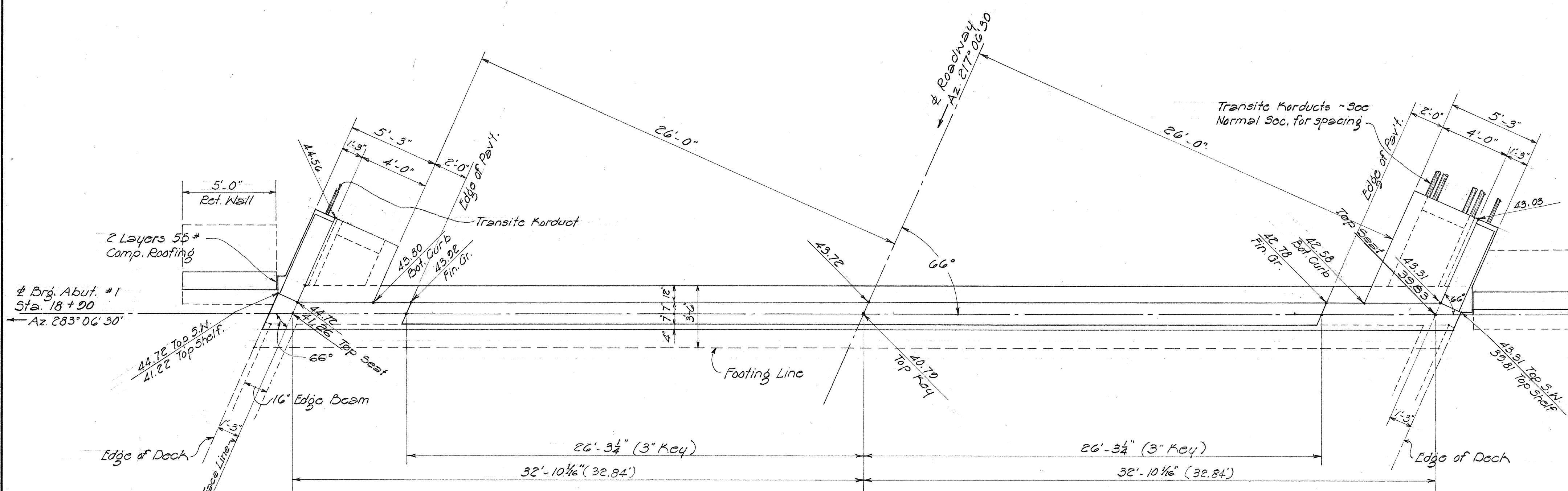
SURVEY PLOTTED BY	DATE
TRACED BY	DATE
QUANTITIES CHECKED BY	DATE
NOTE BOOK NO.	

NOTE: Excavate and pour all pier and abutment footings to neat lines.

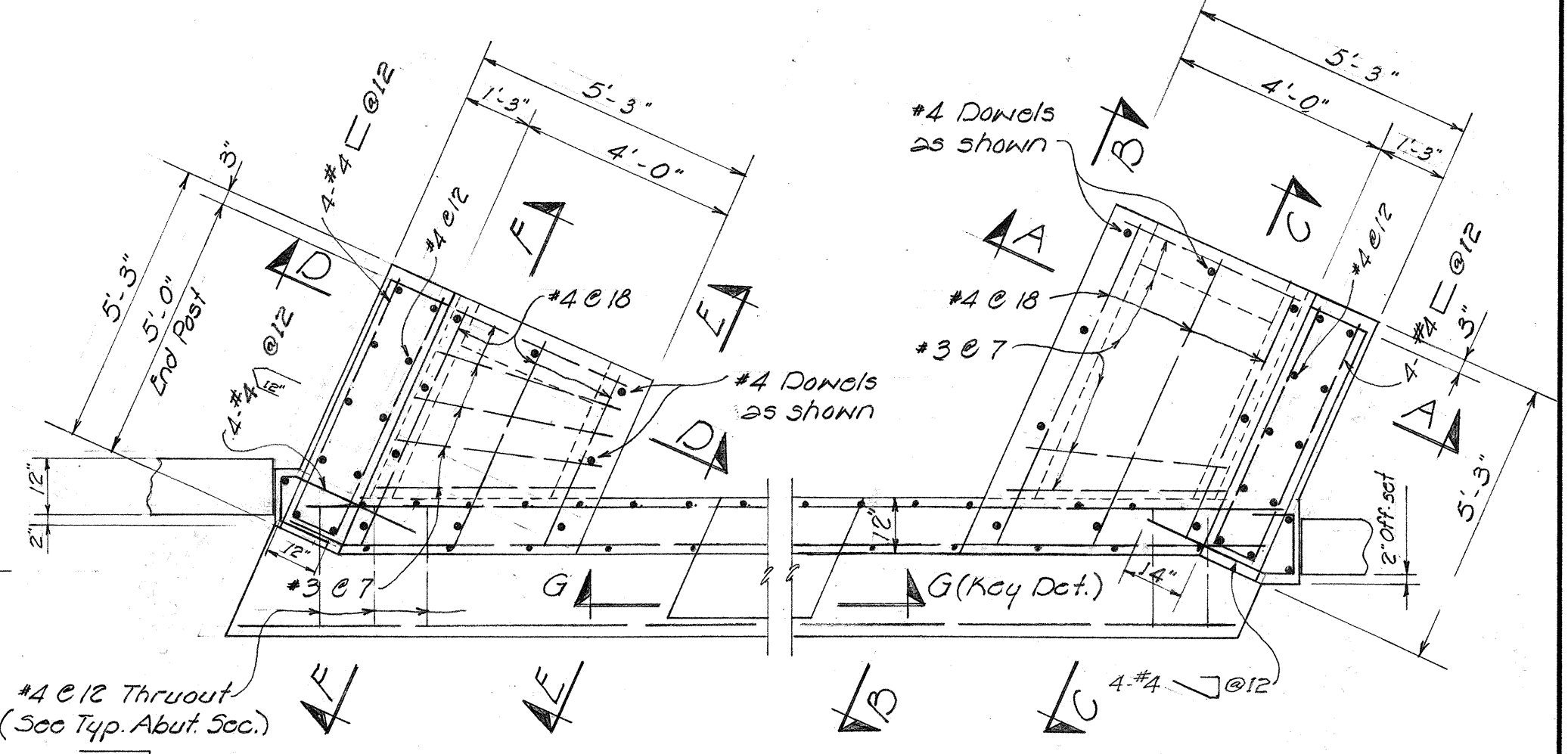
NOTE: Columns fixed to pier caps. Expansion by virtue of flexibility of pier columns.

Max. Soil Press. 4000 lbs./sq. ft. (for Pier Footings)

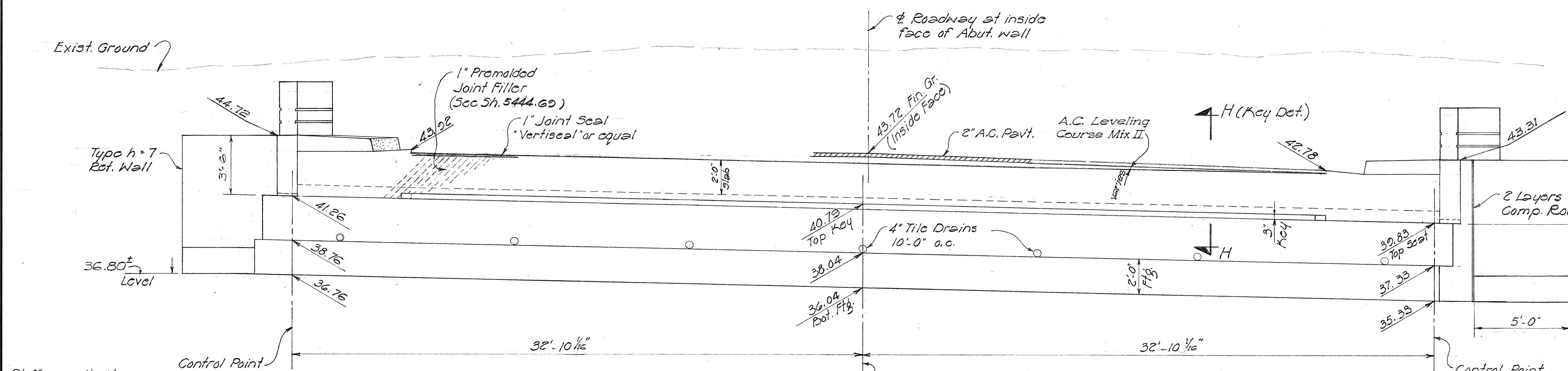
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0720	1958	68	109



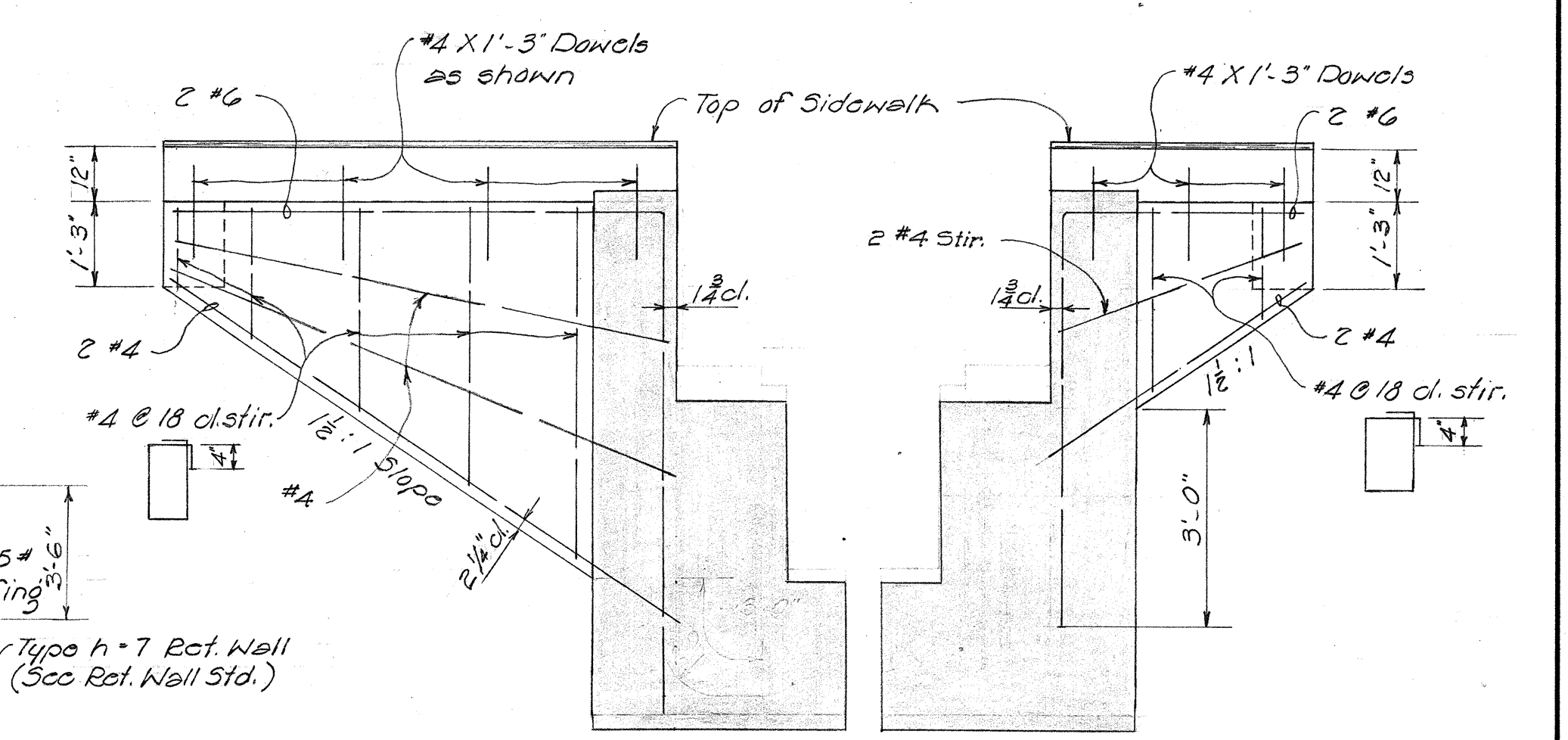
PLAN - ABUTMENT #1
Scale - 1/4" = 1'-0"



PART PLAN - ABUT. #1
ABUT. #2 OPPOSITE HAND
Scale - 3/8" = 1'-0"

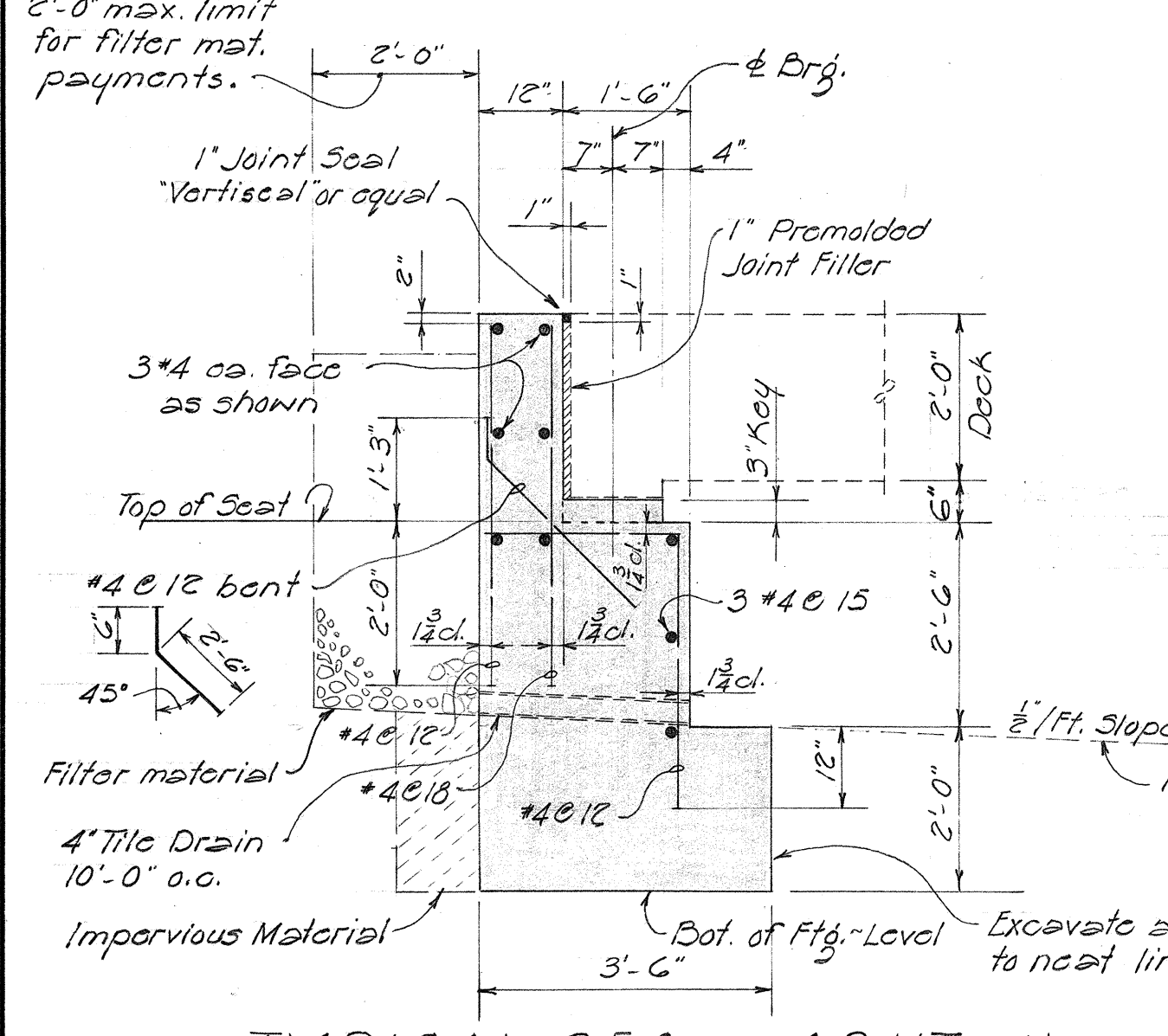


ELEVATION - ABUT. #1
Scale - 1/4" = 1'-0"

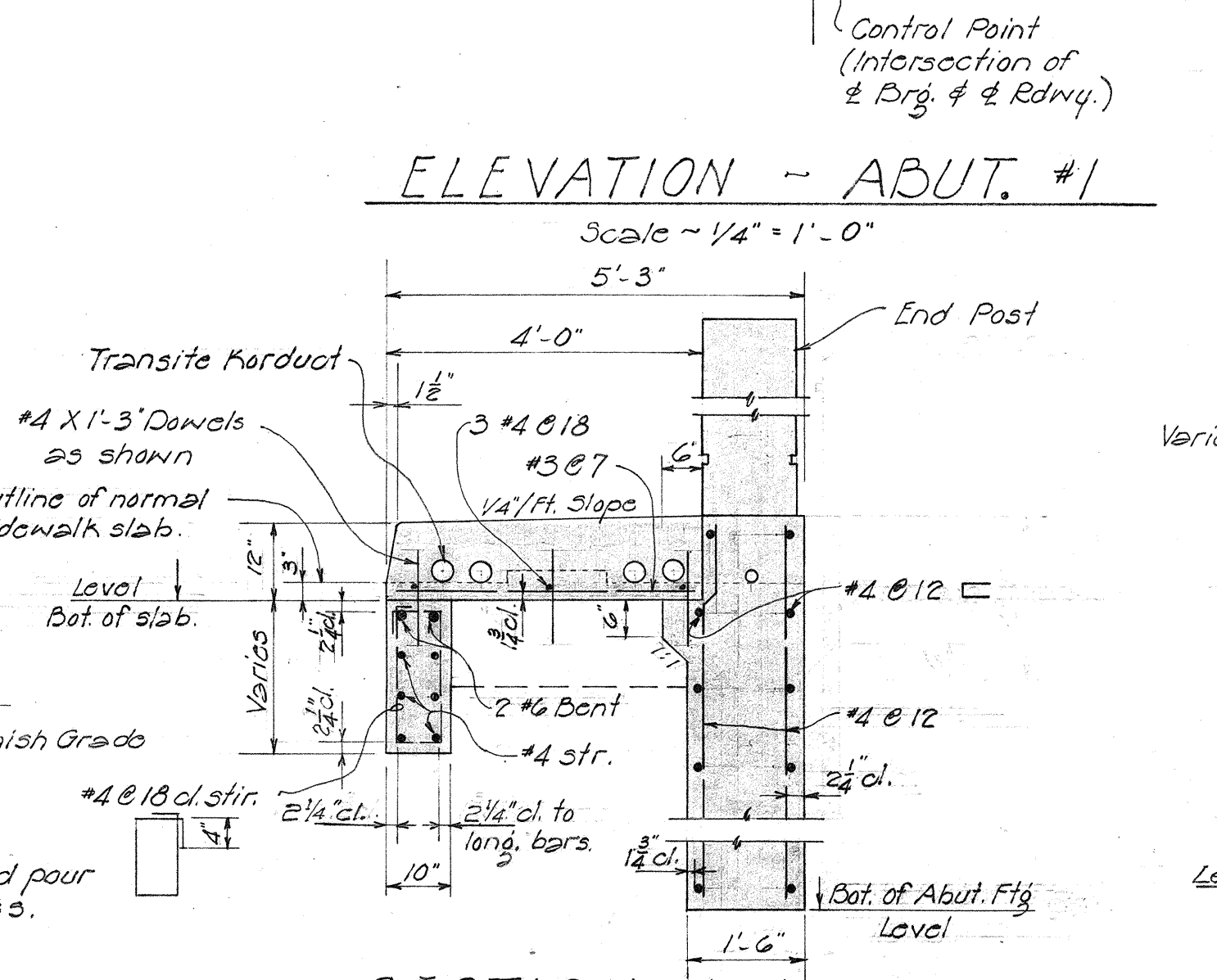


SECTION B-B
Scale - 1/2" = 1'-0"

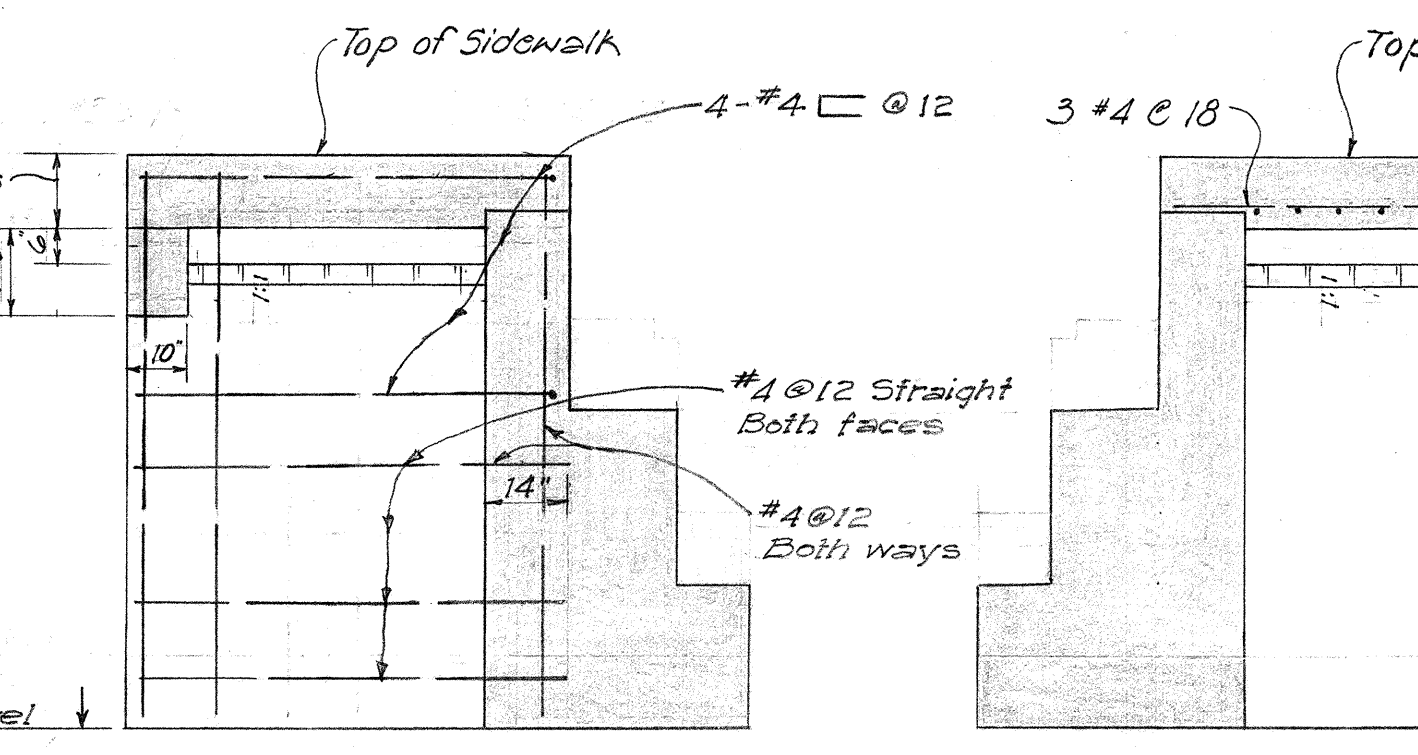
SECTION E-E
Scale - 1/2" = 1'-0"



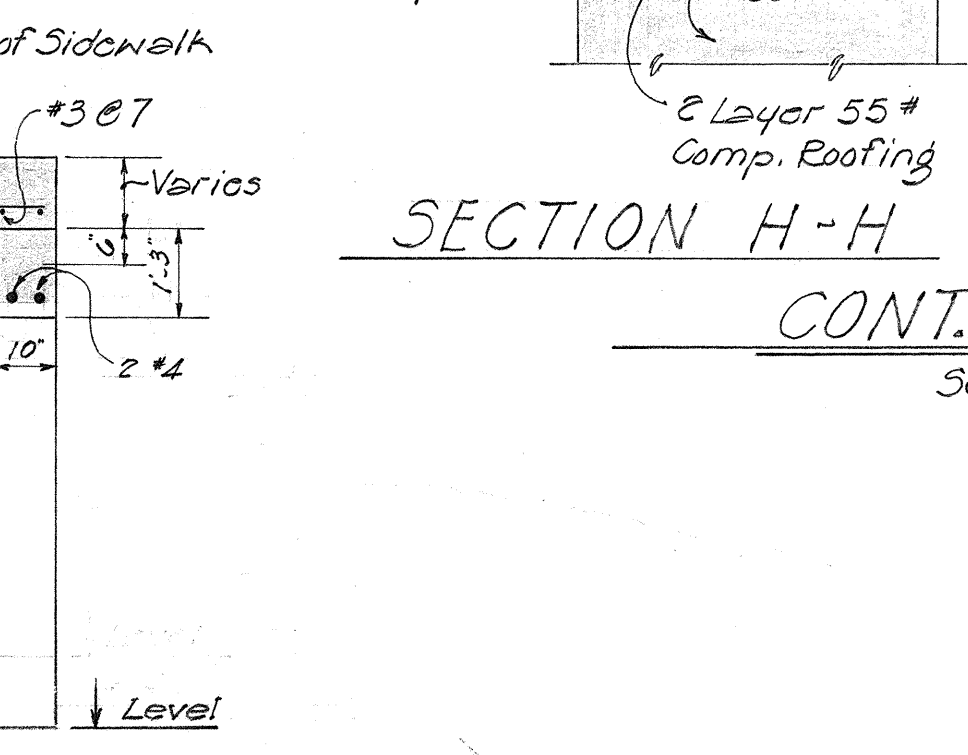
TYPICAL SEC. - ABUT. #1
ABUT. #2 SIMILAR
Scale - 1/2" = 1'-0"



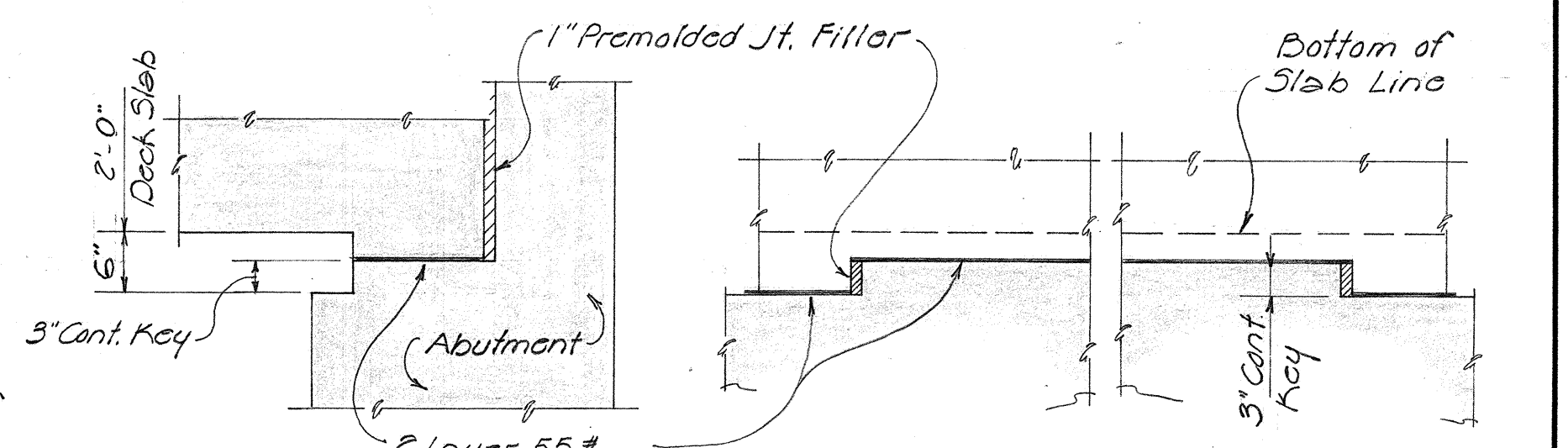
SECTION A-A
SEC. D-D OPPOSITE
Scale - 1/2" = 1'-0"



SECTION C-C
Scale - 3/8" = 1'-0"



SECTION F-F
Scale - 3/8" = 1'-0"



SECTION H-H
Scale - 3/4" = 1'-0"

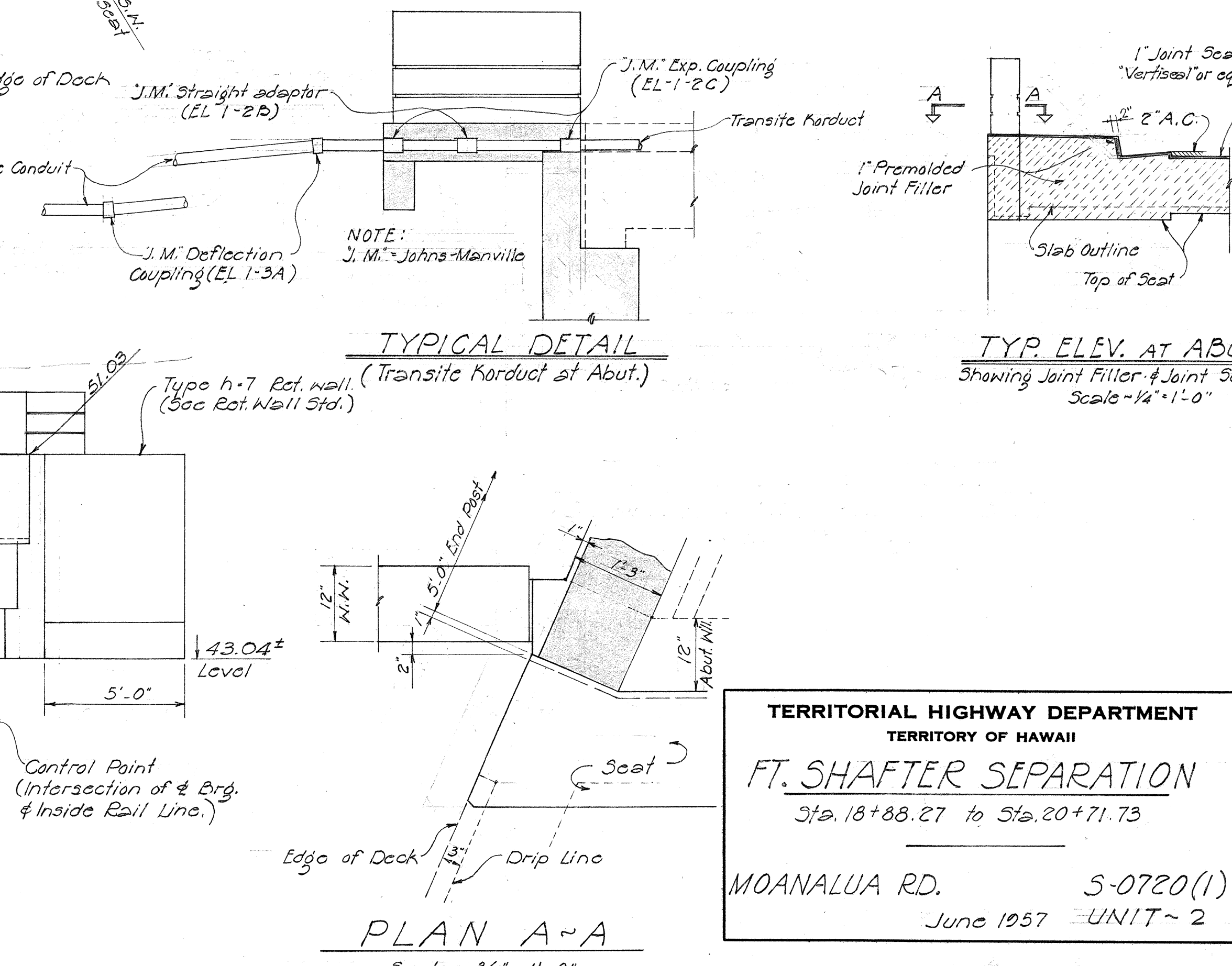
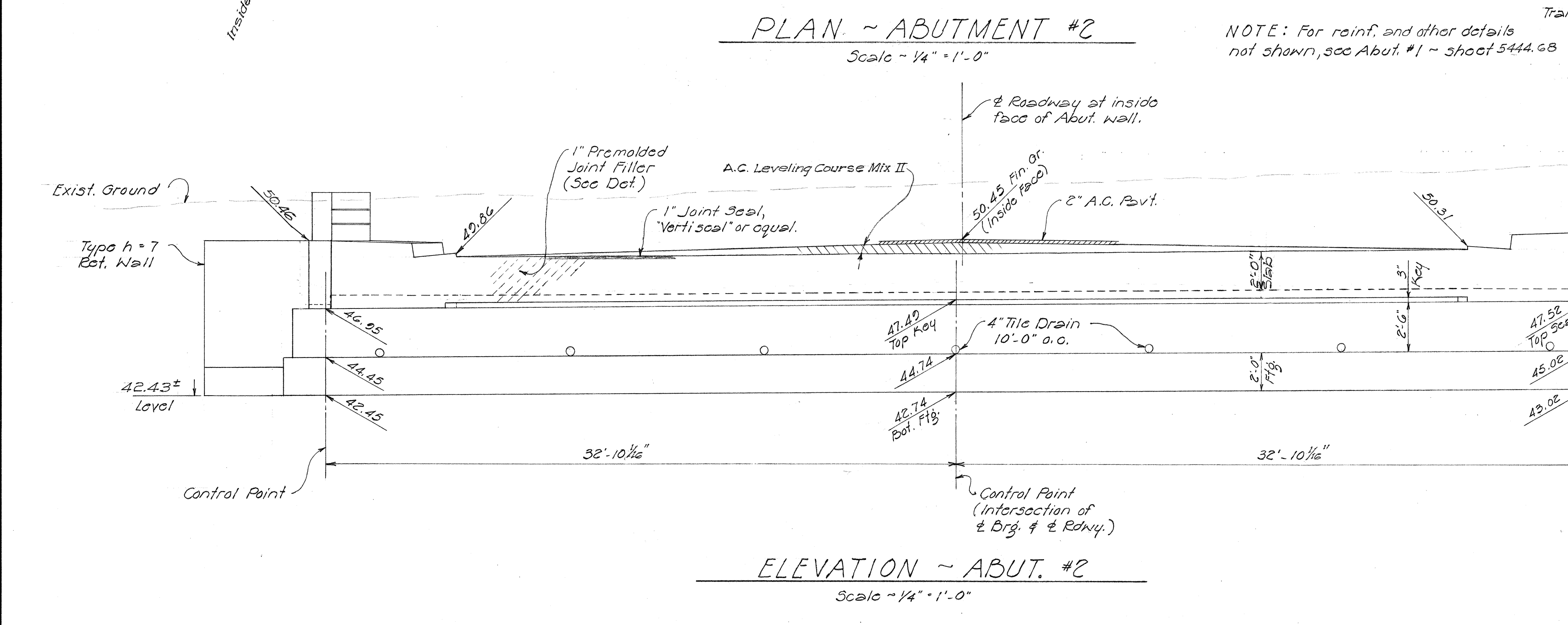
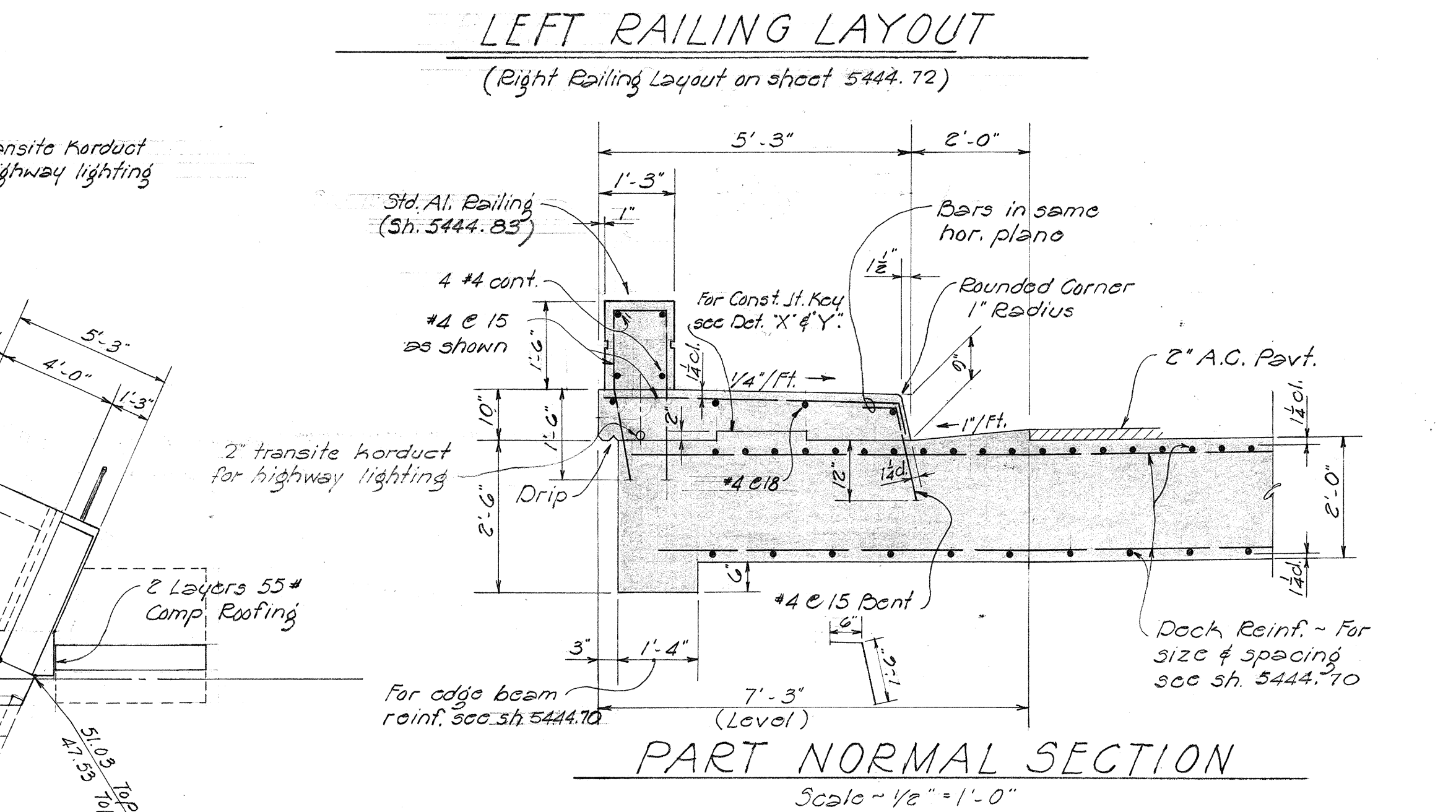
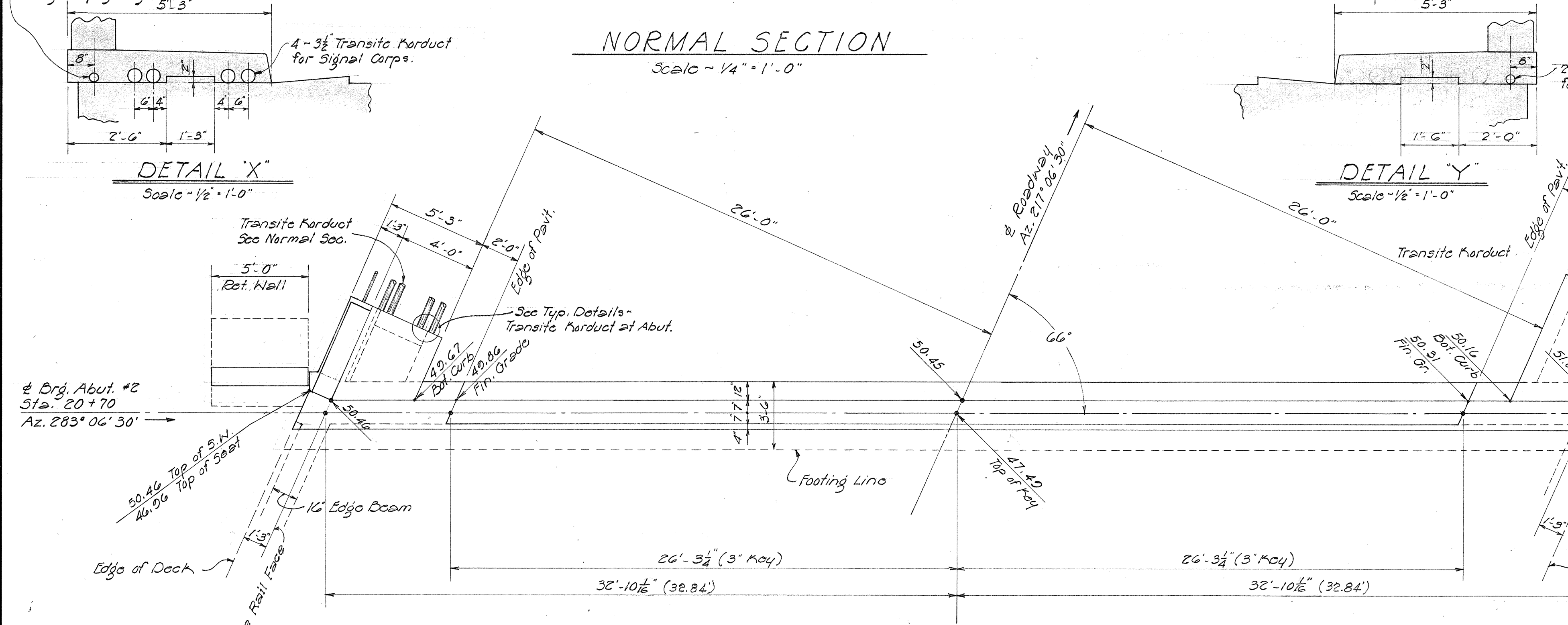
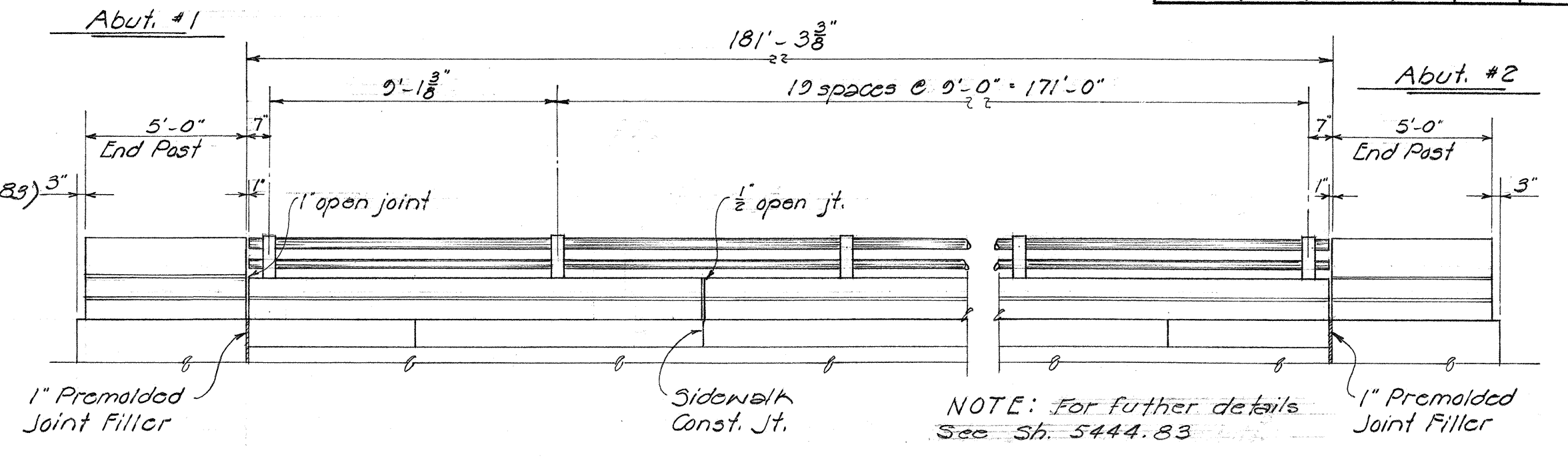
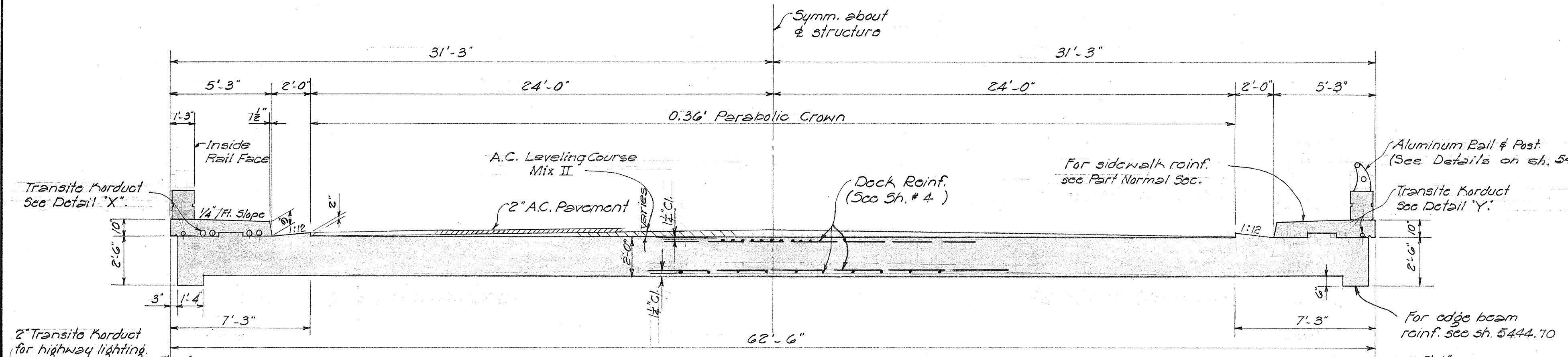
SECTION G-G
Scale - 3/4" = 1'-0"

CONT. KEY DETAIL

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
FT. SHAFTER SEPARATION
Sta. 18+88.27 to Sta. 20+71.73
MOANALUA RD. 5-0720 (1)
June 1957 UNIT - 2

SURVEY PLOTTED BY	DATE
DESIGNED BY	2-57
DRAWN BY	2-57
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0720 UNIT-2	1958	69	109



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

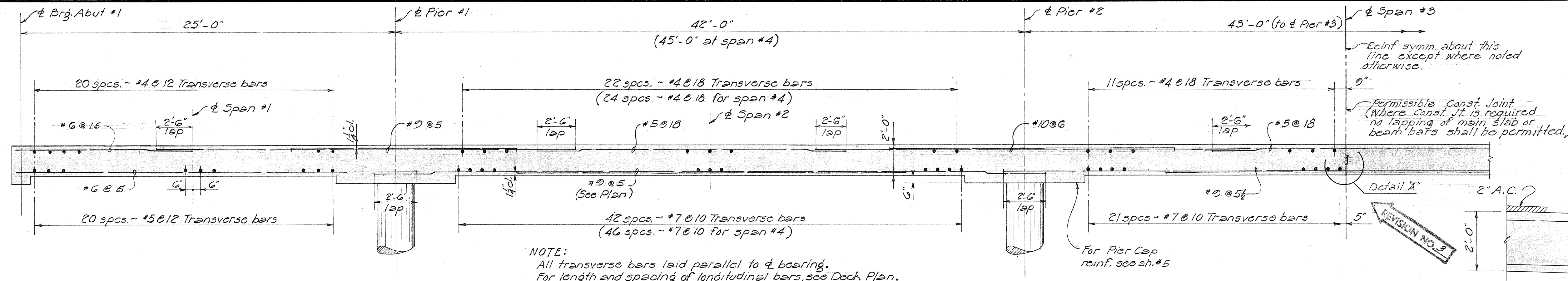
FT. SHAFTER SEPARATION
Sta. 18+88.27 to Sta. 20+71.73

MOANALUA RD. 5-0720(1)
June 1957 UNIT - 2

SHEET NO. 3 OF 6 SHEETS

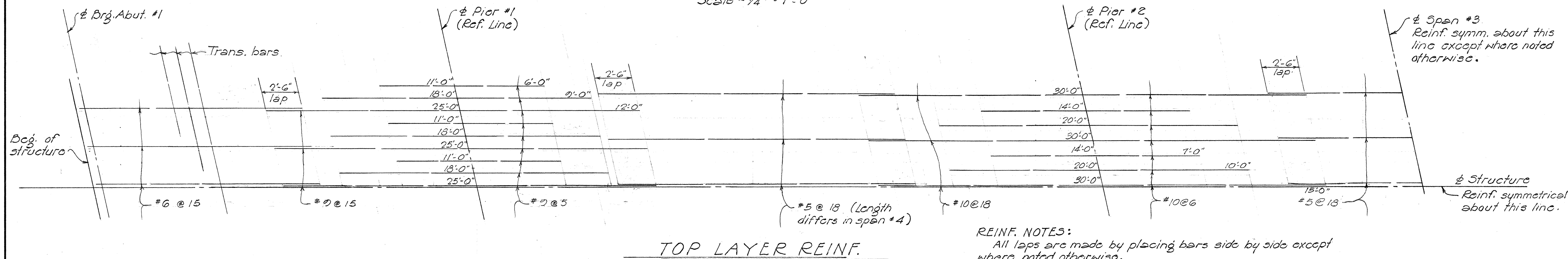
SURVEY PLOTTED BY	DATE
DESIGNED BY	6-57
DRAWN BY	6-57
CHECKED BY	6-57
QUANTITIES CHECKED BY	
NOTE BOOK	
NO.	

Revision #3 ~ 9/24/59 Revised Slab Const. Jt. Detail.



LONG. SECTION SHOWING DECK REINF.

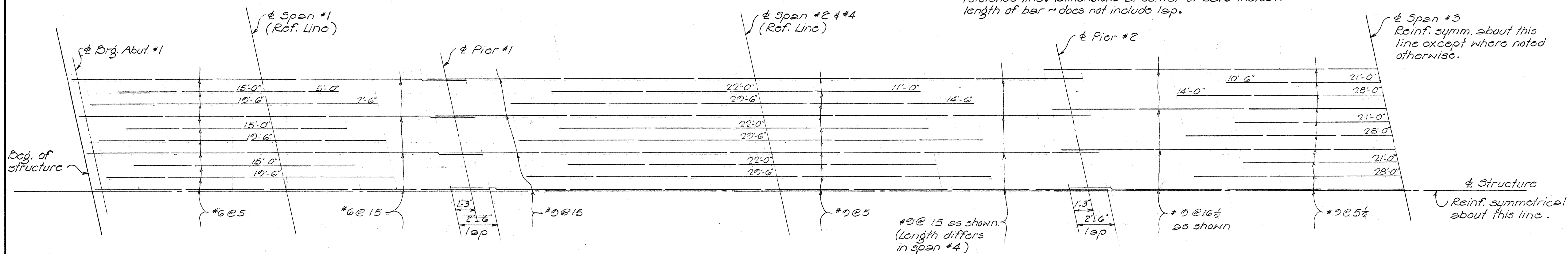
Scale - 1/4" = 1'-0"



TOP LAYER REINF.

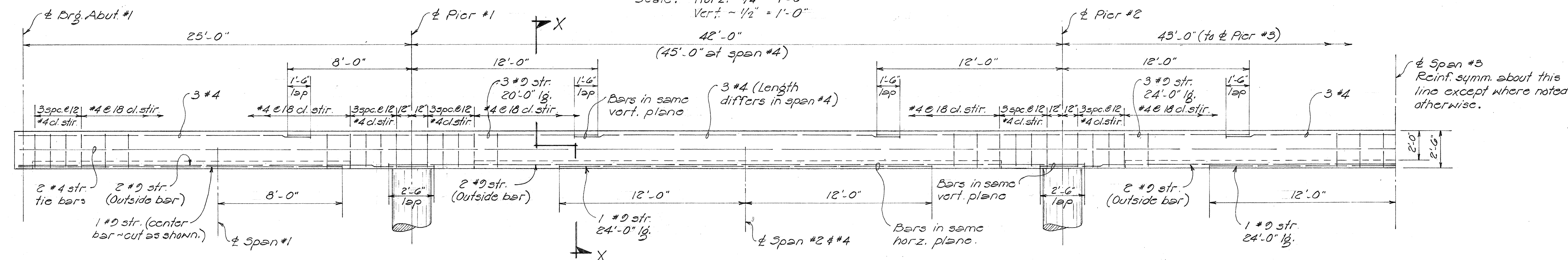
REINF. NOTES:

All laps are made by placing bars side by side except where noted otherwise.
Dimensions at end of bars indicate distance from reference line. Dimensions at center of bars indicate length of bar - does not include lap.



BOT. LAYER REINF.
DECK REINF. PLAN

Scale: Horiz. 1/4" = 1'-0"
Vert. 1/2" = 1'-0"

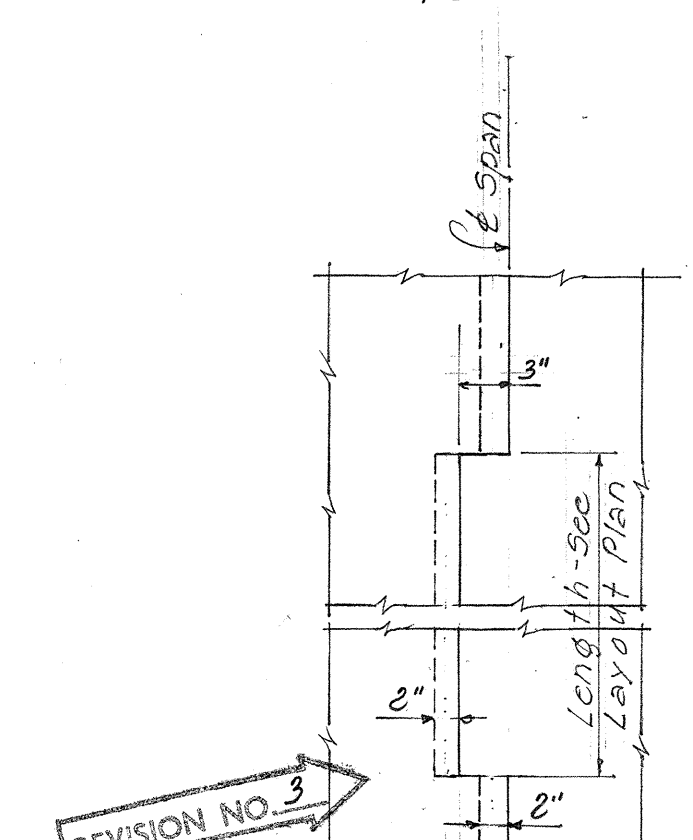


ELEVATION SHOWING EDGE BEAM REINF.

Scale - 1/4" = 1'-0"

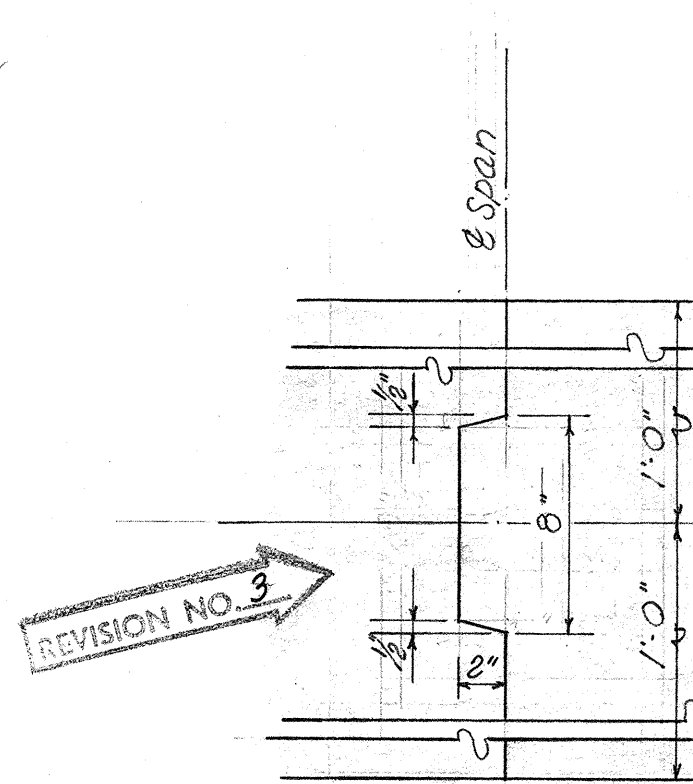
SECTION X-X

Scale - 1/2" = 1'-0"



PLAN

Scale: 1" = 1'-0"



DETAIL "A"

Scale: 1 1/2" = 1'-0"

SLAB CONST. JT. DETAIL

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

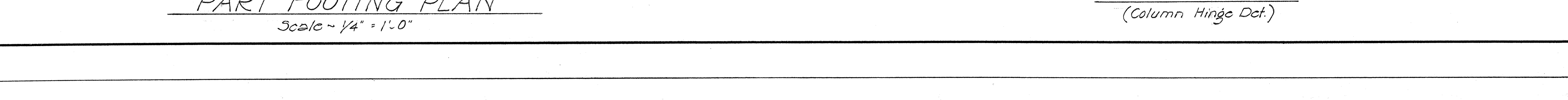
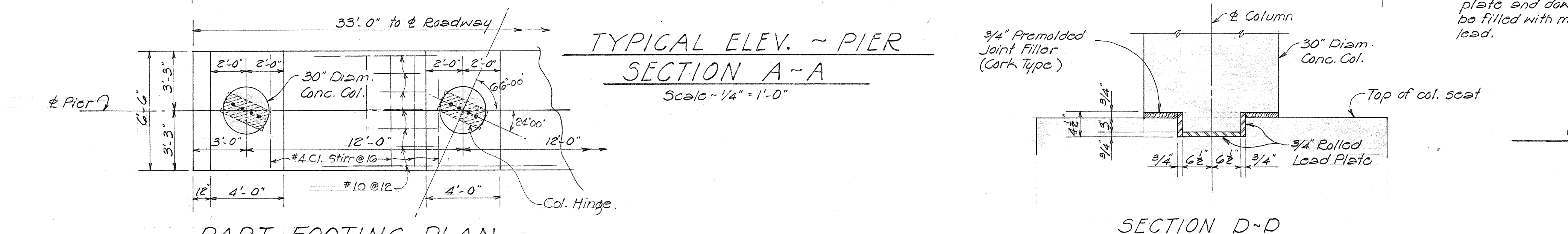
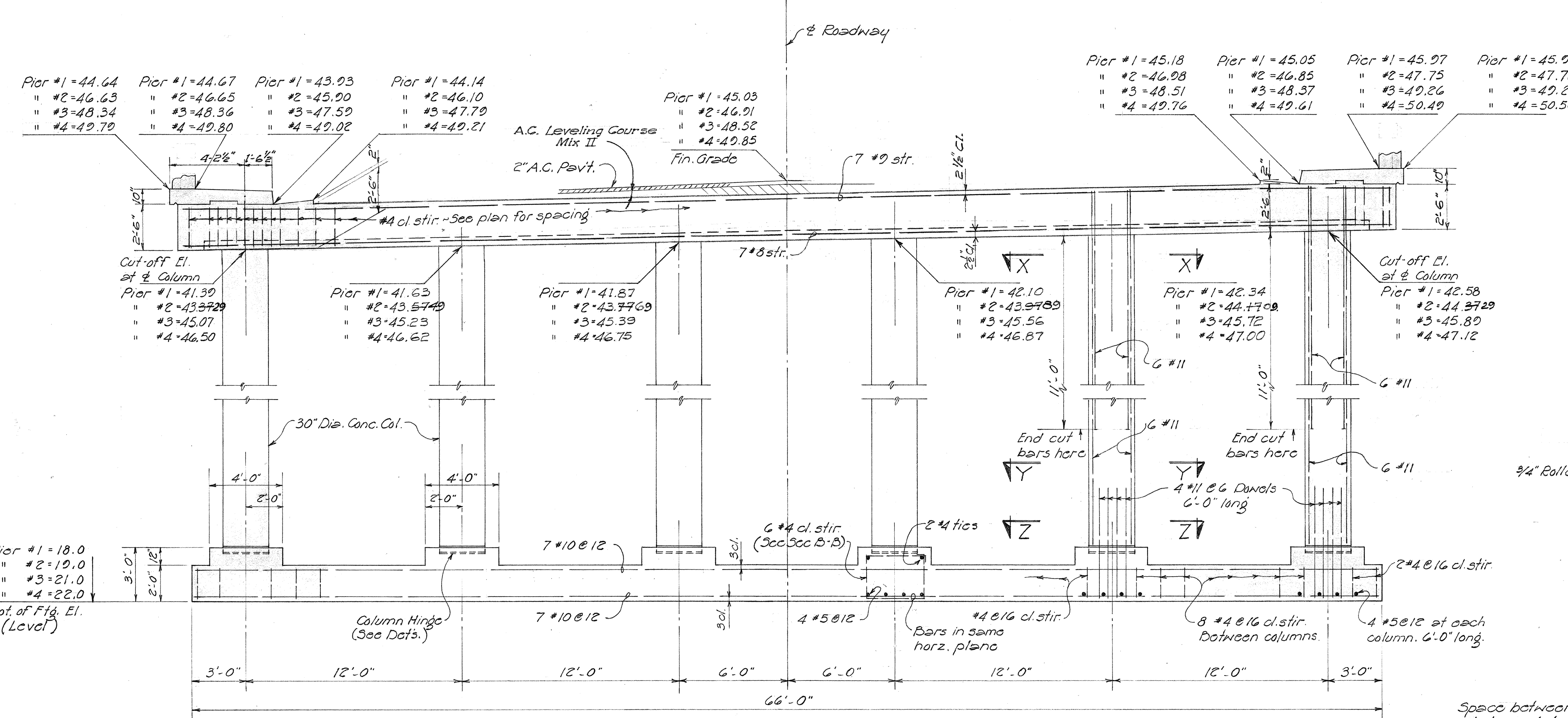
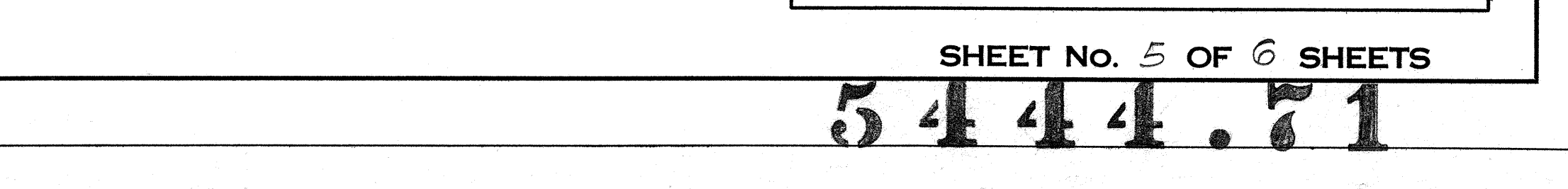
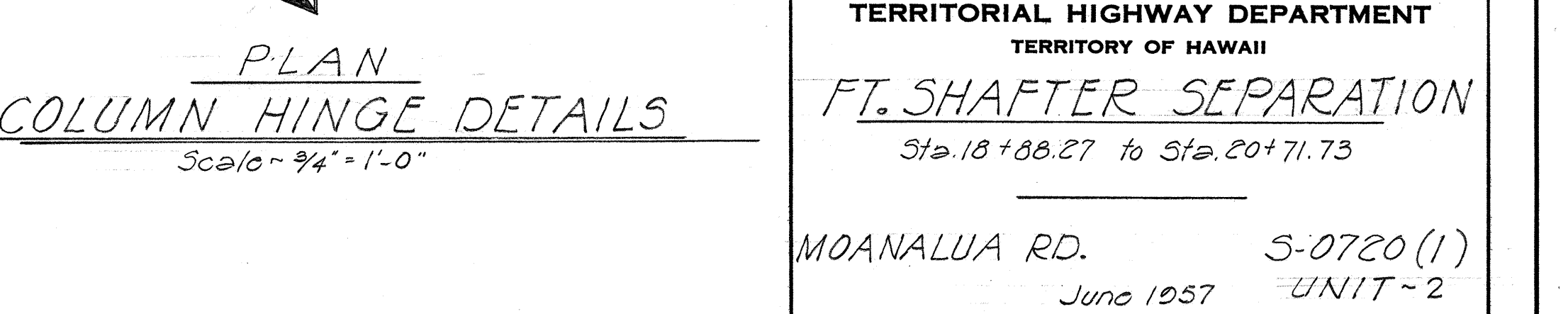
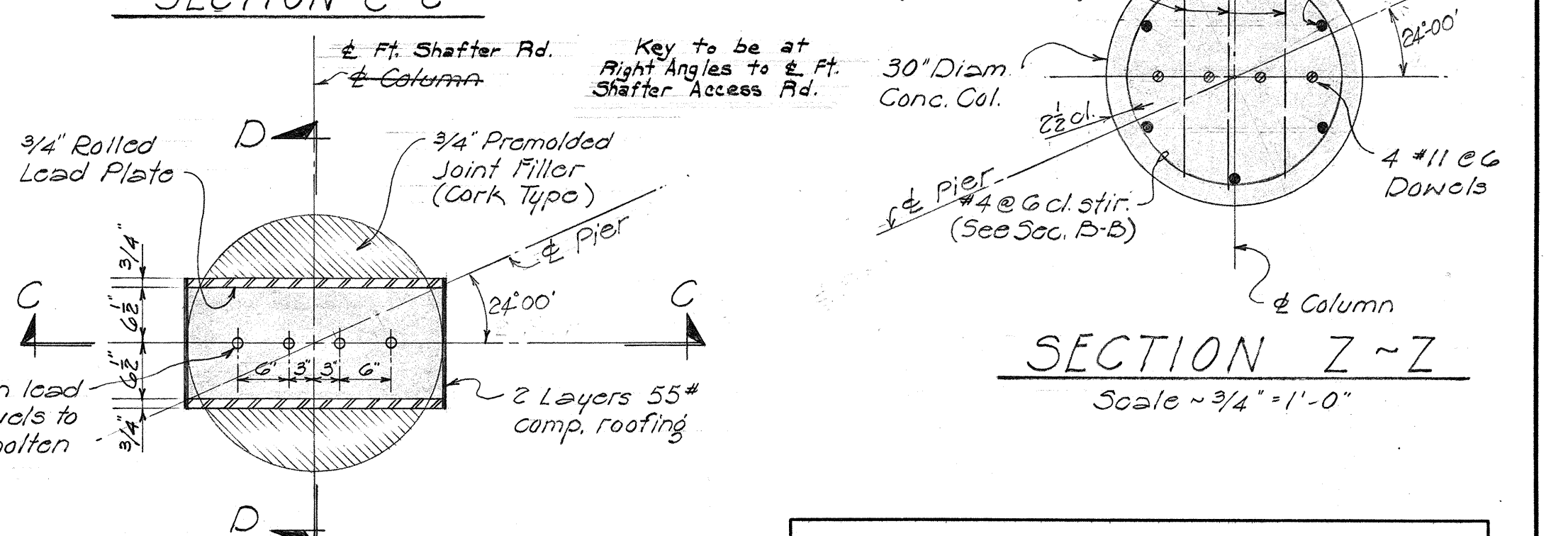
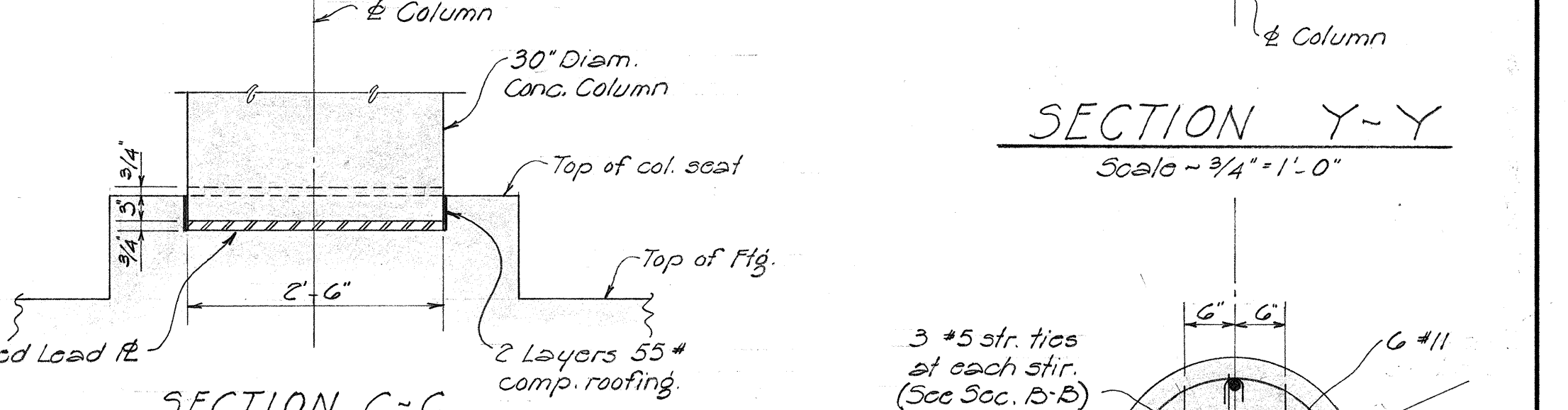
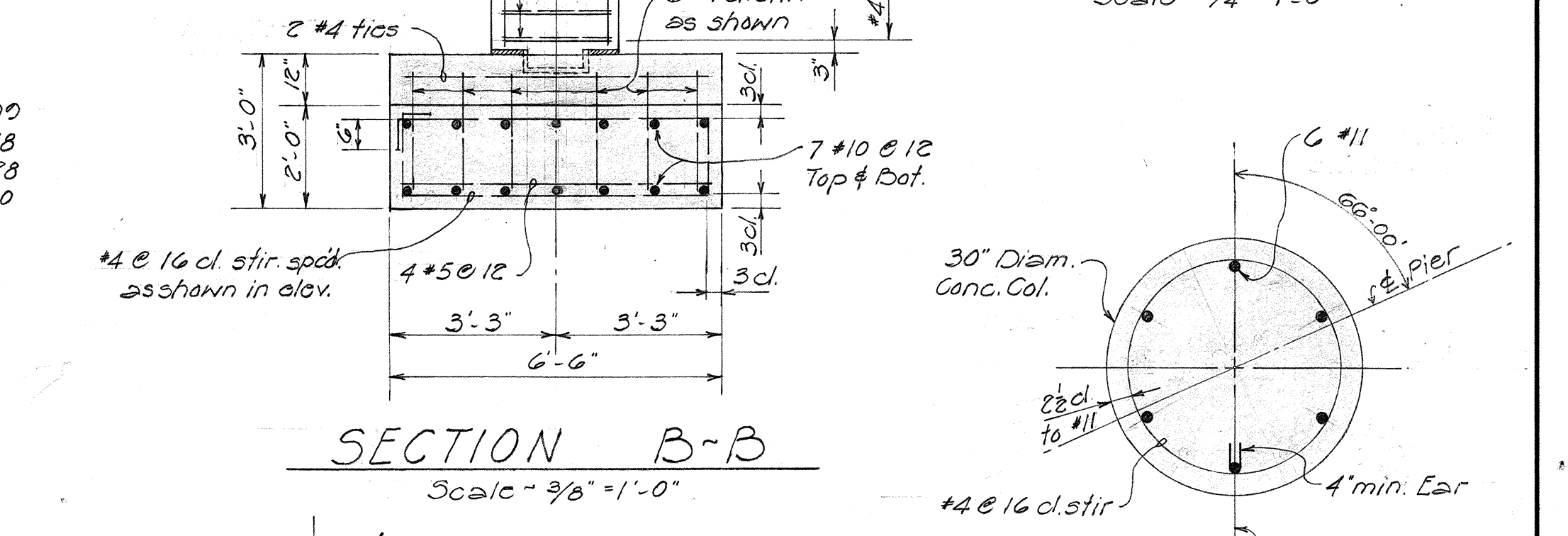
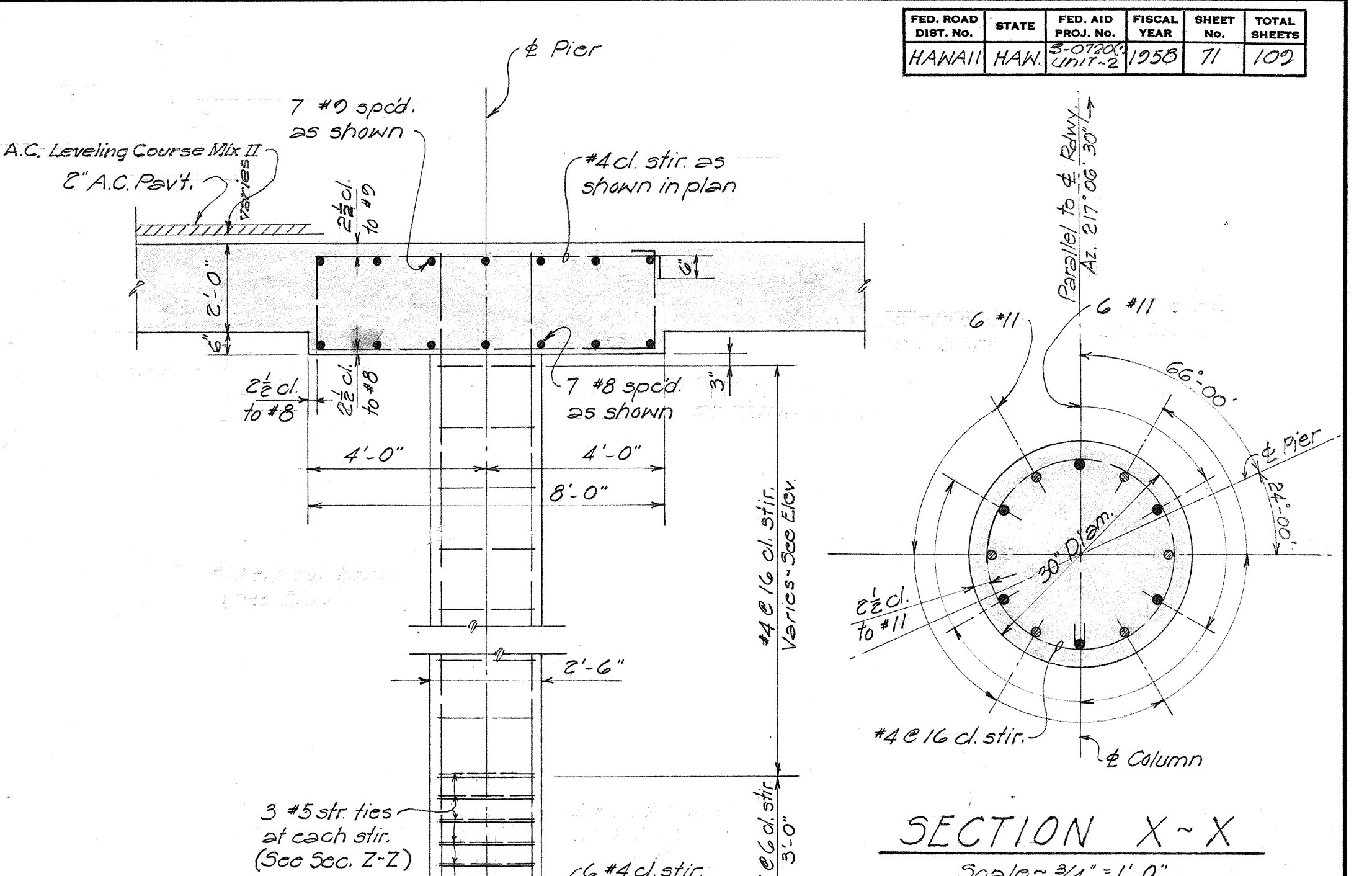
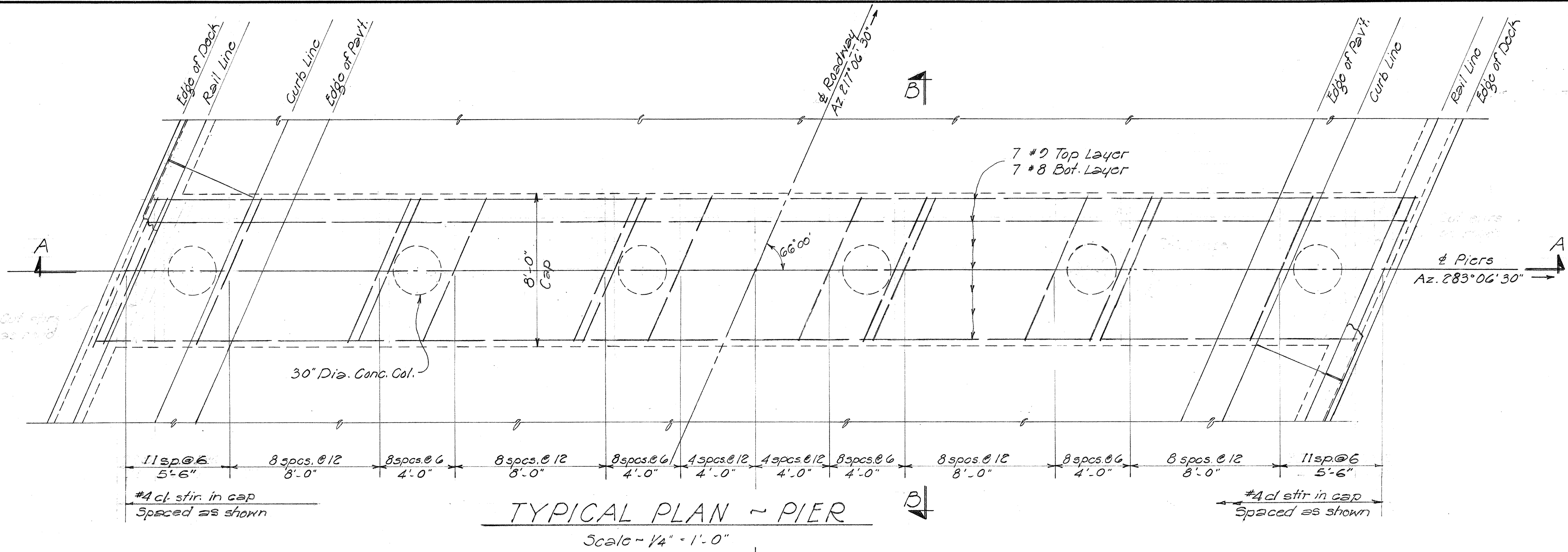
FT. SHAFTER SEPARATION
Sta. 18+88.27 to Sta. 20+71.73

MOANALUA RD. 5-0720 (1)
June 1957 UNIT-2

SHEET No. 4 OF 6 SHEETS

5444.70

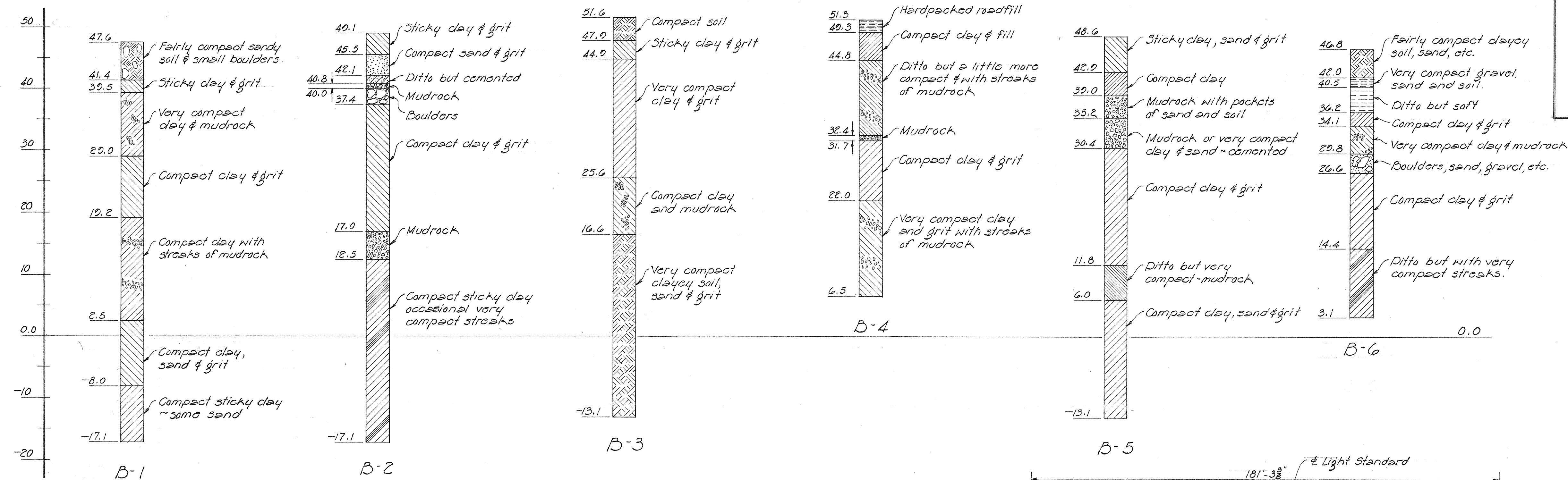
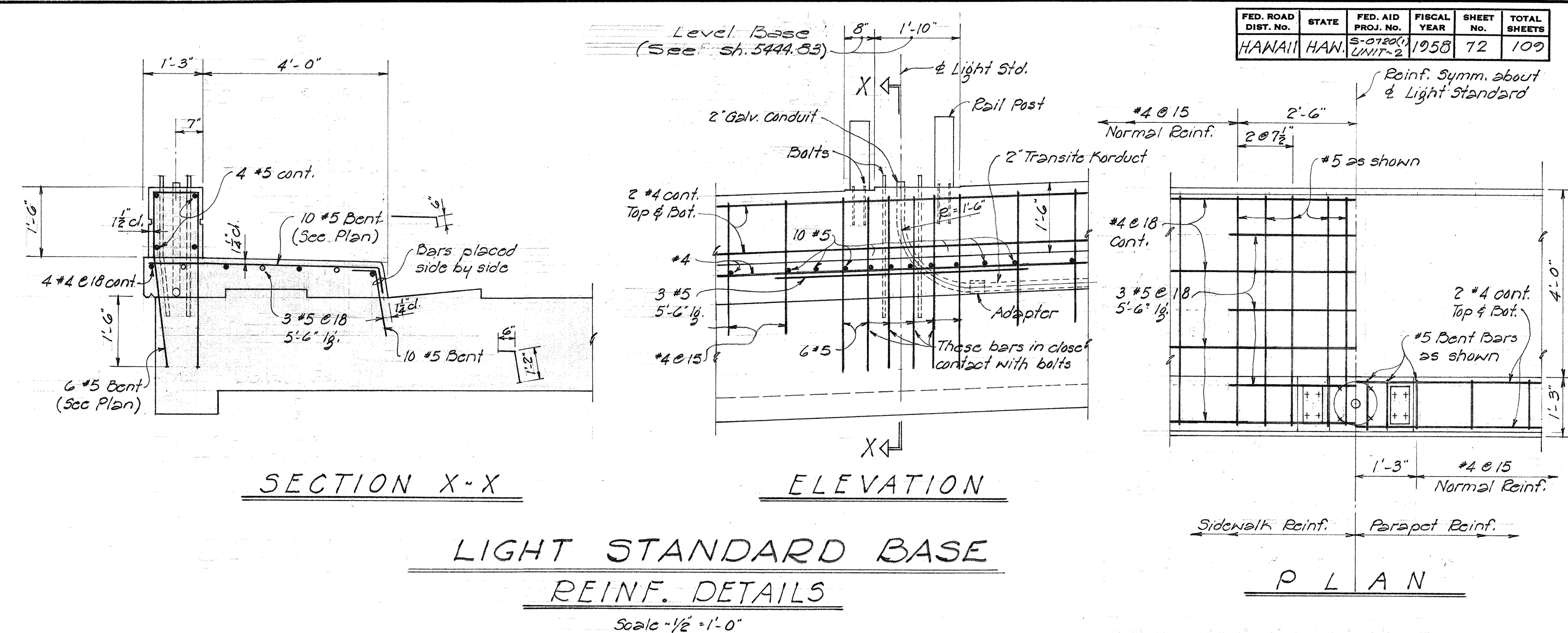
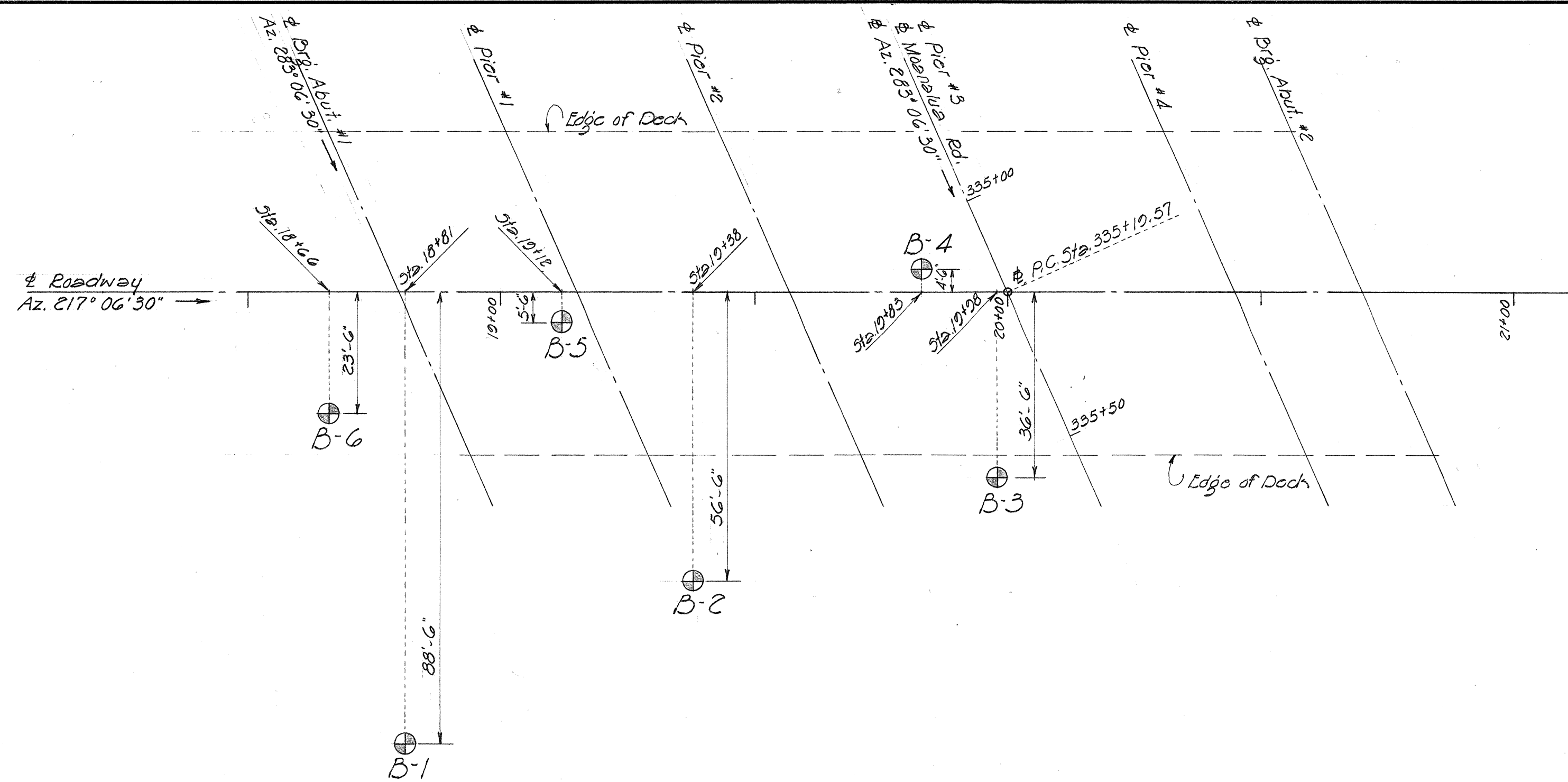
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DRAWN BY: 4-57
CHECKED BY: 4-57
ORIGINAL PLAN
NOTE BOOK
No.



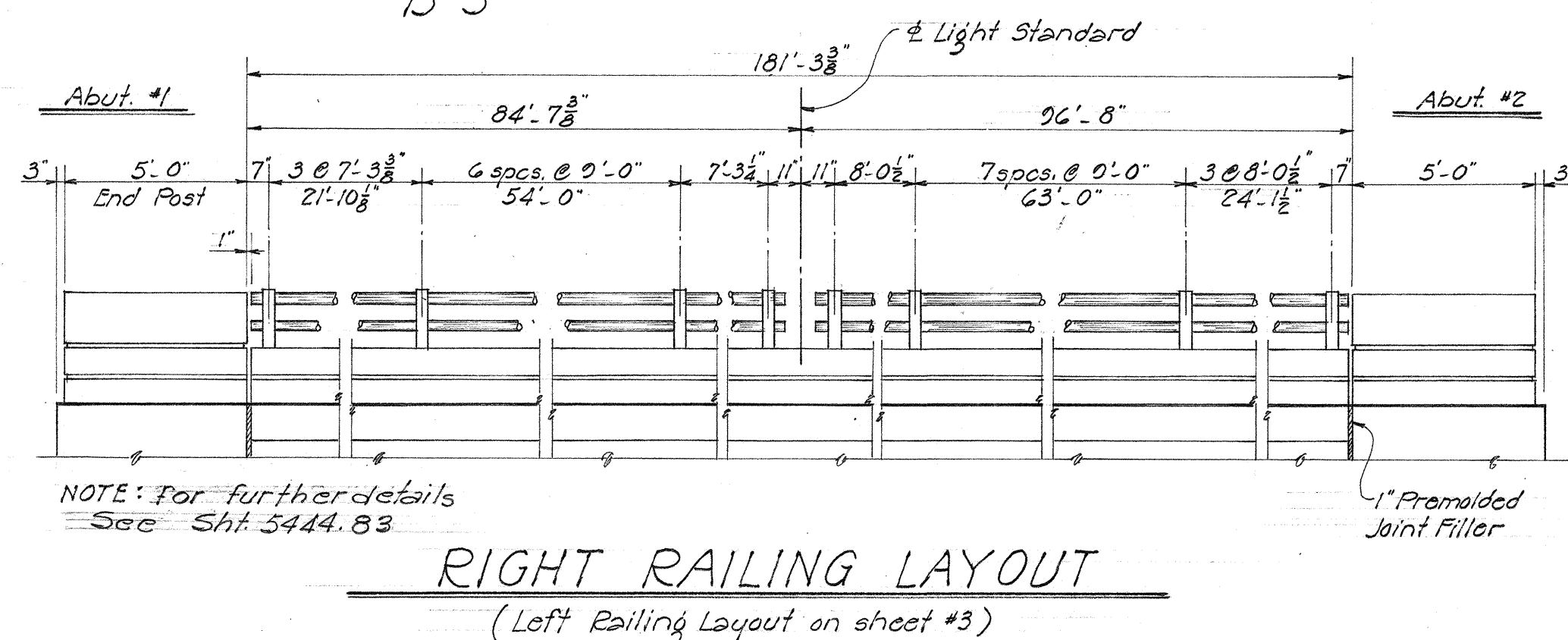
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
FT. SHAFTER SEPARATION
Sta. 18+88.27 to Sta. 20+71.73
MOANALUA RD. S-0720(1)
June 1957 UNIT-2

SHEET NO. 5 OF 6 SHEETS
5444.71

DESIGNED BY: **W. H. HARRIS**
DRAWN BY: **W. H. HARRIS**
CHECKED BY: **W. H. HARRIS**
DATE: **6-57**
ORIGINAL PLAN NO. **2-57**
NOTE BOOK NO. **2-57**



<u>ESTIMATED QUANTITIES</u>	
REINF. STEEL	LUMP SUM (106,000 LBS.)
CONC. IN BRIDGE	LUMP SUM (Class A-1 ~ 1315 C.Y.)
STRUCT. EXC.	280 C.Y.
A.C. PAV'T Mix I	114 TON
A. C. PAV'T Mix II	132 TON
TACK COAT	245 GAL
FILTER MATERIAL	43 C.Y.
ALUMINUM RAILING	363 LIN. FT.
METAL GUARD RAIL (Edwiy Contr. Item)	125 LIN. FT.
Wood GUARD RAIL (Edwiy Contr. Item)	50 Lin. Ft.



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
FT. SHAFTER SEPARATION
Sta. 18+88.27 to Sta. 20+71.73

MOANALUA RD. 5-0780 (1)
June 1957 UNIT-2