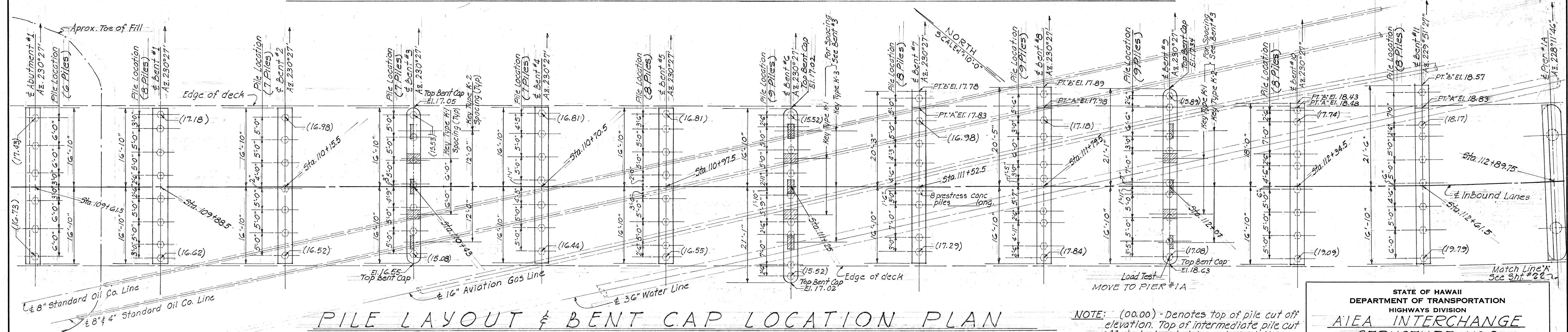


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	6/64
	TRACED BY	"
	DESIGNED BY	"
	QUANTITIES BY	"
	CHECKED BY	"
No.	L. AKASAKI, J.T.O.	



SCALE 1"=10'-0"

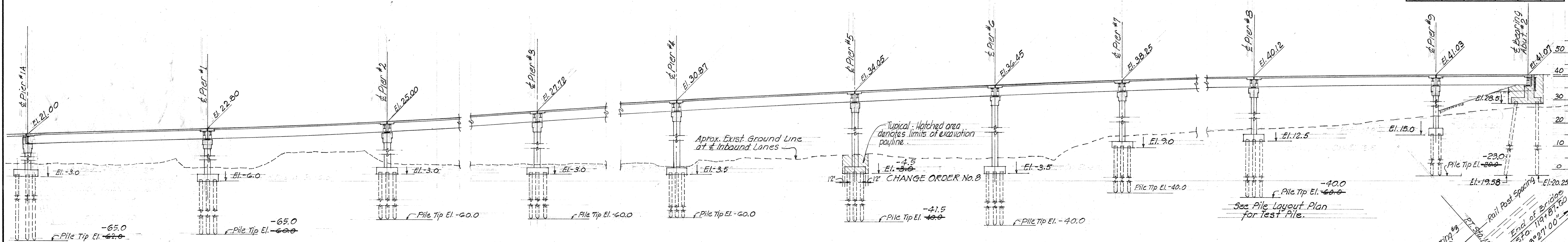
NOTE: All piles to be standard prestress concrete piles type I. See Standard Prestress Concrete Piles #3-2.

IMPORTANT!!! Pile Design Load 40 tons - Abutment #1 thru Bent #11 inclusive

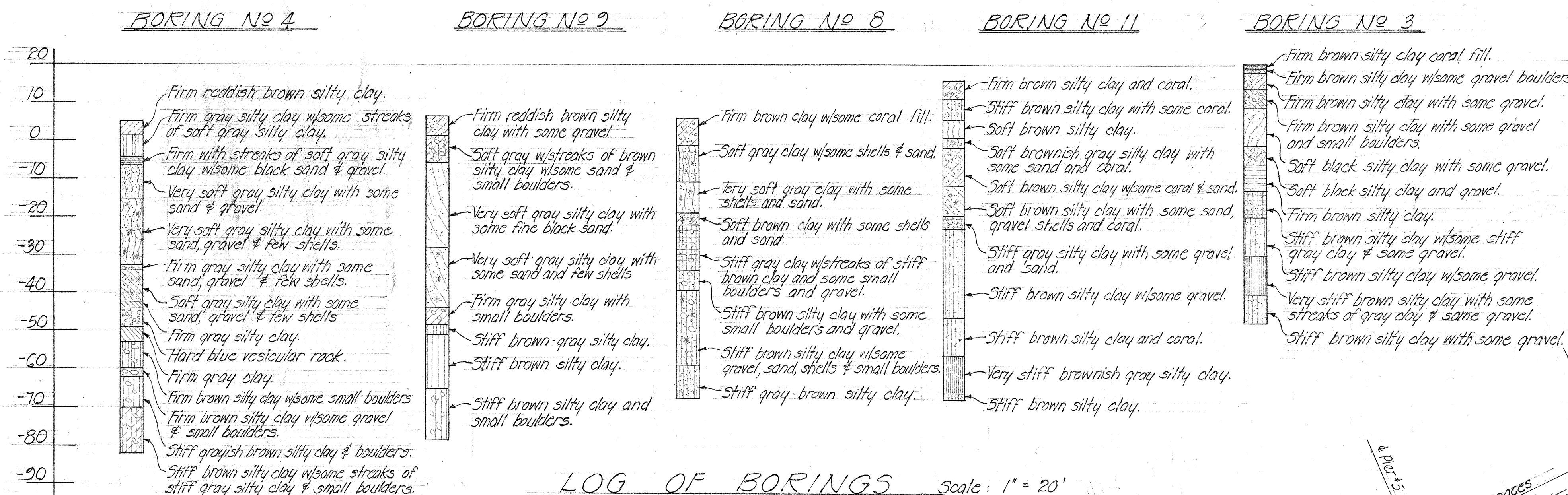
Pile length with in a particular bent shall be of the same length and shall be rounded nearest foot. Pile lengths will be furnished by the Engineer after the Load Test for the bents and the test pile is driven for the piers.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

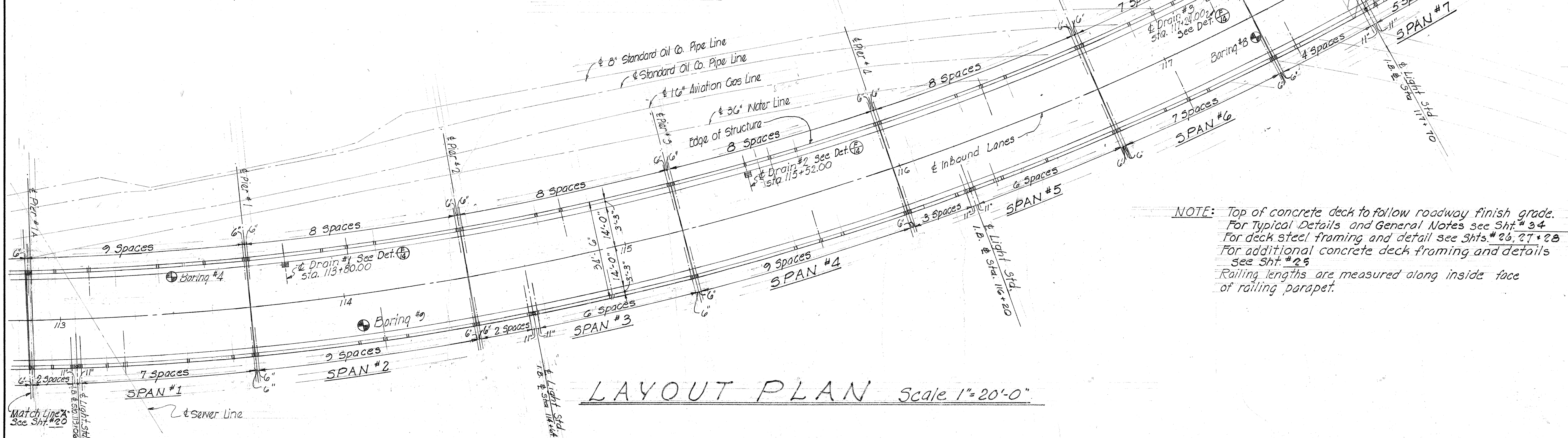
AIEA INTERCHANGE
STRUCTURE NO 2
PART LAYOUT PLAN and DETAILS
I.B. # Sta. 109+52.58 To I.B. # Sta. 112+89.75
Kamehameha Hwy Proj. No F-090-1(10)



LONGITUDINAL SECTION ALONG & INBOUND LANES Scale 1" = 20'-0"



LOG OF BORINGS Scale: 1" = 20'

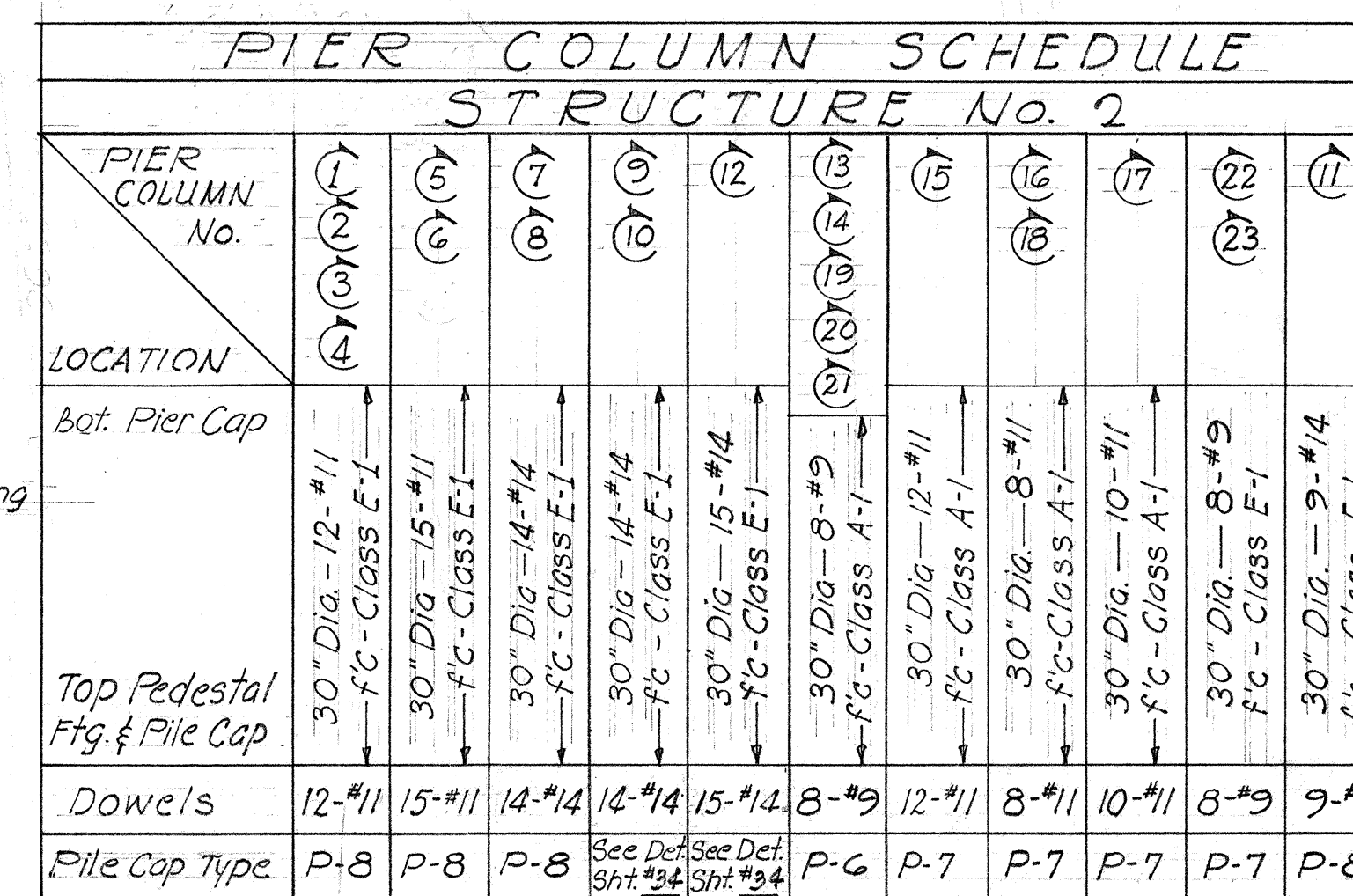


LAYOUT PLAN Scale 1" = 20'-0"

NEOPRENE PAD SCHEDULE			
AT EACH END OF GIRDER	DIMENSIONS		
	SIZE	LENGTH	THICKNESS
G-1 thru G-5 INCL.	8'	22'	1"
G-6 thru G-10 INCL.	8'	22'	1"
G-11 thru G-15 INCL.	8'	22'	1"
G-16 thru G-20 INCL.	8'	22'	1"
G-21 thru G-25 INCL.	8'	22'	1"
G-26 thru G-30 INCL.	7'	22'	3/4"
G-31 thru G-33 INCL.	7'	20'	3/4"
G-34	7'	22'	3/4"
G-35	8'	22'	1"
G-36 thru G-40 INCL.	8'	22'	1"
G-41 thru G-45 INCL.	8'	22'	1"
G-46 thru G-50 INCL.	7'	20'	3/4"

NOTE: Top of concrete deck to follow roadway finish grade. For Typical Details and General Notes see Sht. #24. For deck steel framing and detail see Shts. #26, #27, #28. For additional concrete deck framing and details see Sht. #25. Railing lengths are measured along inside face of railing parapet.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**AIEA INTERCHANGE
STRUCTURE NO. 2**
PART LAYOUT PLAN and DETAILS
I.B. & Sta. 112+89.75 To I.B. & Sta. 119+87.60
Kamehameha Hwy Proj. No. F-090-1(10)

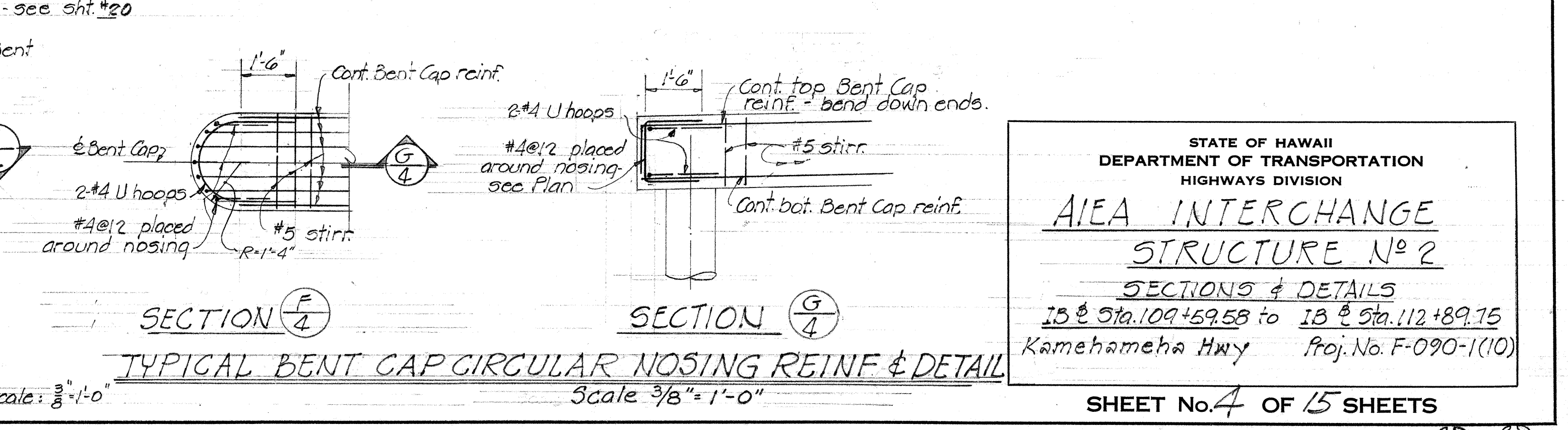


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AIEA INTERCHANGE
STRUCTURE No. 2
PART PILE LAYOUT PLAN & COLUMN SCHEDULE
1.B. & Sta. 112+89.75 to 1.B. & Sta. 119+87.60
Kamehameha Hwy Proj. No. F-090-1(10)

SHEET No. 3 OF 15 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY <u>W.B.</u>	<u>6/64</u>
	TRACED BY <u>W.B.</u>	"
NOTE BOOK	DESIGNED BY <u>C. NAGAMI</u>	"
	QUANTITIES BY <u>ER E. TS.</u>	"
No. _____	CHECKED BY <u>L. AKASAKI, J.T.O.</u>	"



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

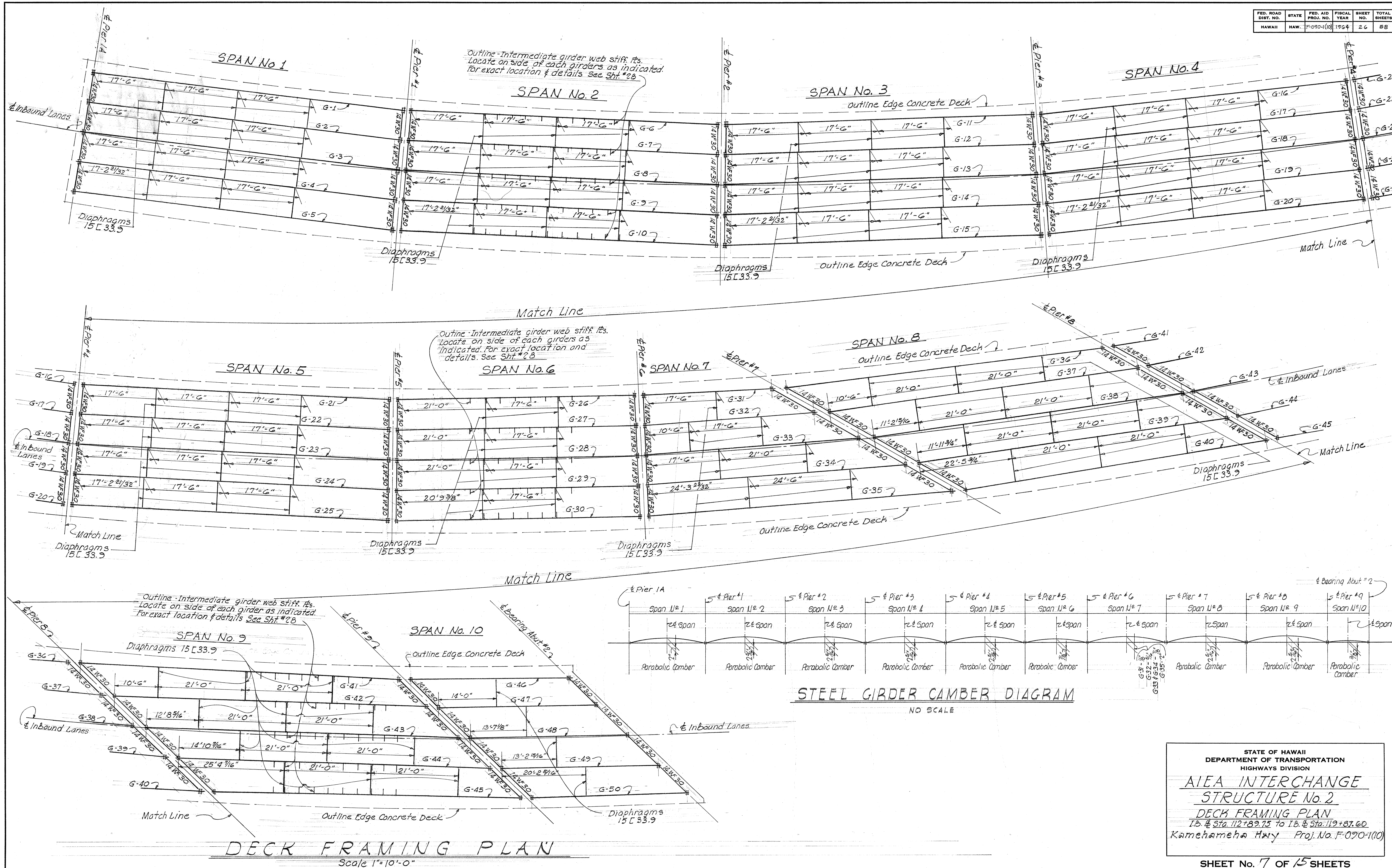
AIEA INTERCHANGE
STRUCTURE No. 2
SECTIONS & DETAILS

13 ± Sta. 109+59.58 to 13 ± Sta. 112+89.75
Kamehameha Hwy Proj. No. F-090-1(10)

SHEET No. 4 OF 15 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY <i>W. F. K.</i>	<i>6/64</i>
	DESIGNED BY <i>W. F. K.</i>	"
	TRACED BY <i>L. TAKAKI</i>	"
	QUANTITIES BY <i>T. S. G.</i>	"
	CHECKED BY <i>J. OKAMOTO</i>	"
No.		

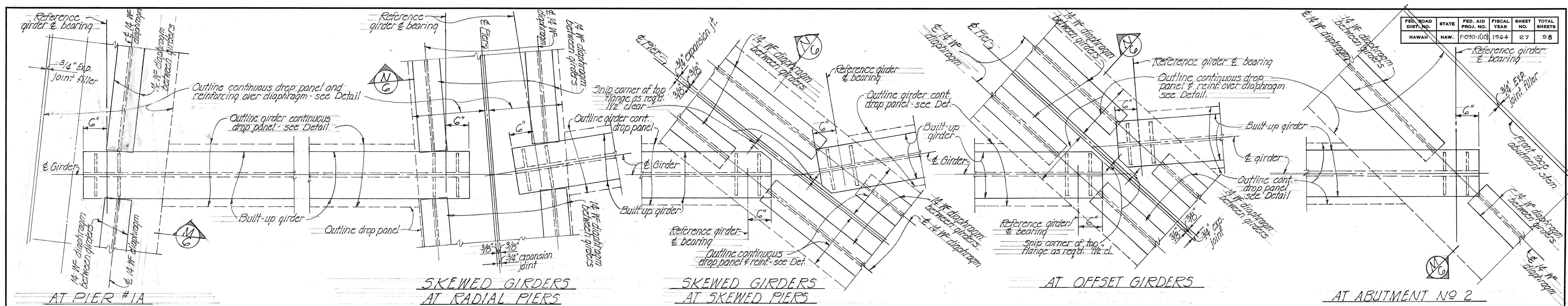




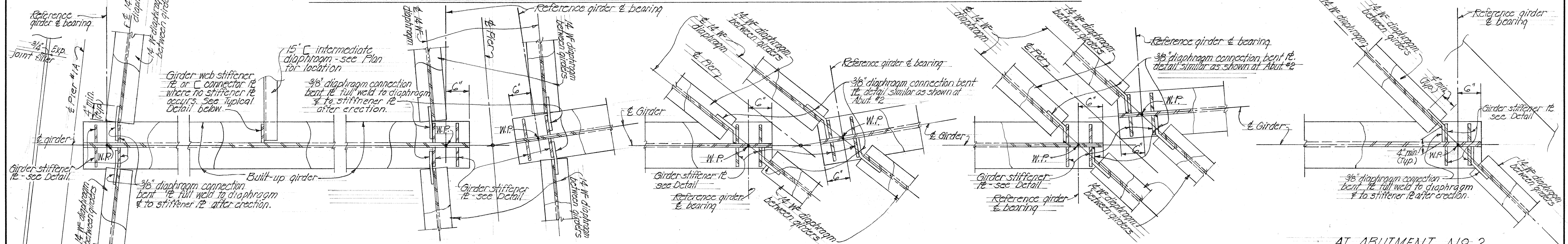
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AIEA INTERCHANGE
STRUCTURE No. 2
DECK FRAMING PLAN
I.B. & Sta. 112+89.75 to I.B. & Sta. 119+87.60
Kamehameha Hwy Proj. No. F-090-1(10)

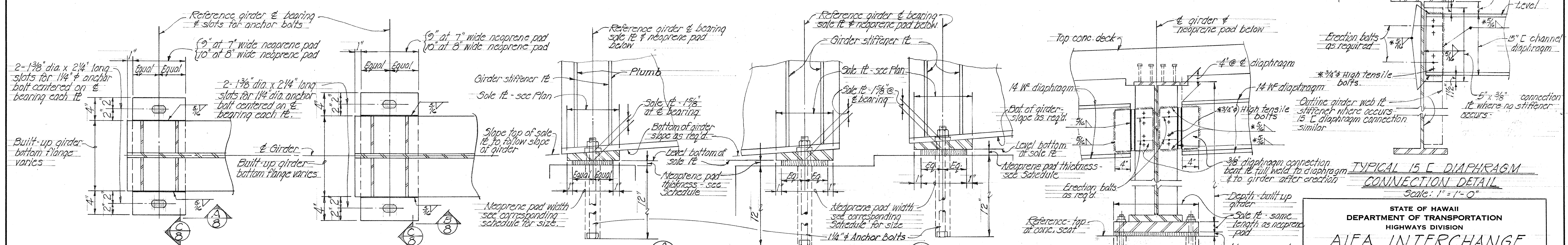
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-090-1(10)	1964	27	58



PLAN - TYPICAL GIRDER TOP FLANGE DETAILS Scale: 1" = 1'-0"



PLAN - TYPICAL GIRDER DIAPHRAGM CONNECTION DETAILS Scale: 1" = 1'-0"



PLAN - TYPICAL GIRDER SOLE PLANK DETAIL Scale: 1 1/2\"/>

SECTION (A) Scale: 1 1/2\"/>

SECTION (B) Scale: 1 1/2\"/>

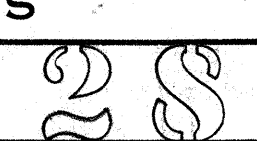
SECTION (C) Scale: 1\"/>

NOTE: All anchor bolts and cut washers to be hot dipped galvanized.
For Anchor Bolt hole See Sht. #30

For Neoprene Pad Schedule see Sht. #21.
* Diaphragm connection may be either welded or bolted

TYPICAL 15\"/>

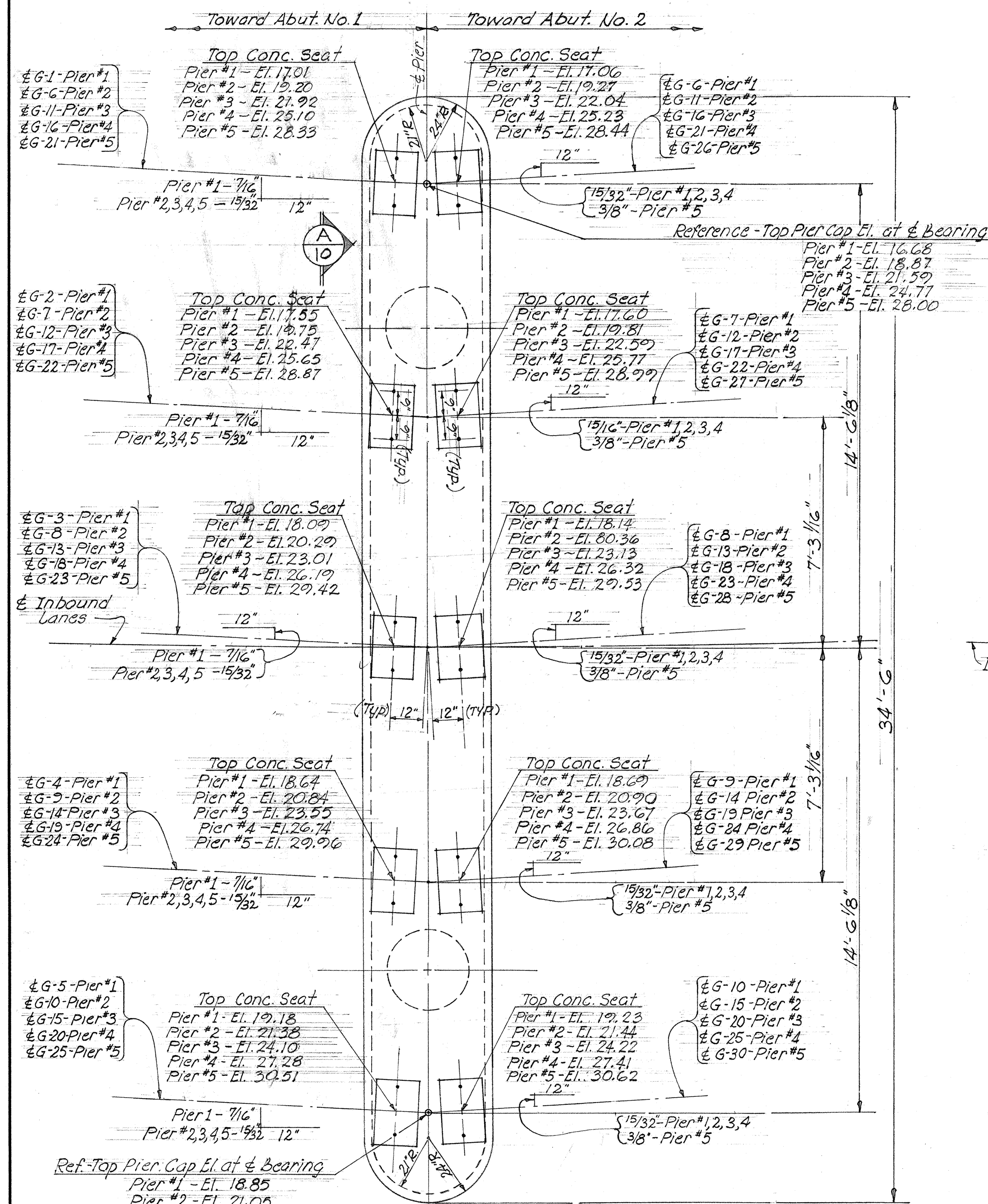
DATE 9/15/64
DESIGNED BY L. ALANZI
CHECKED BY J. OKUNO
ORIGINAL PLAN
NOTE BOOK
No.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-090-1(10)	1964	29	58

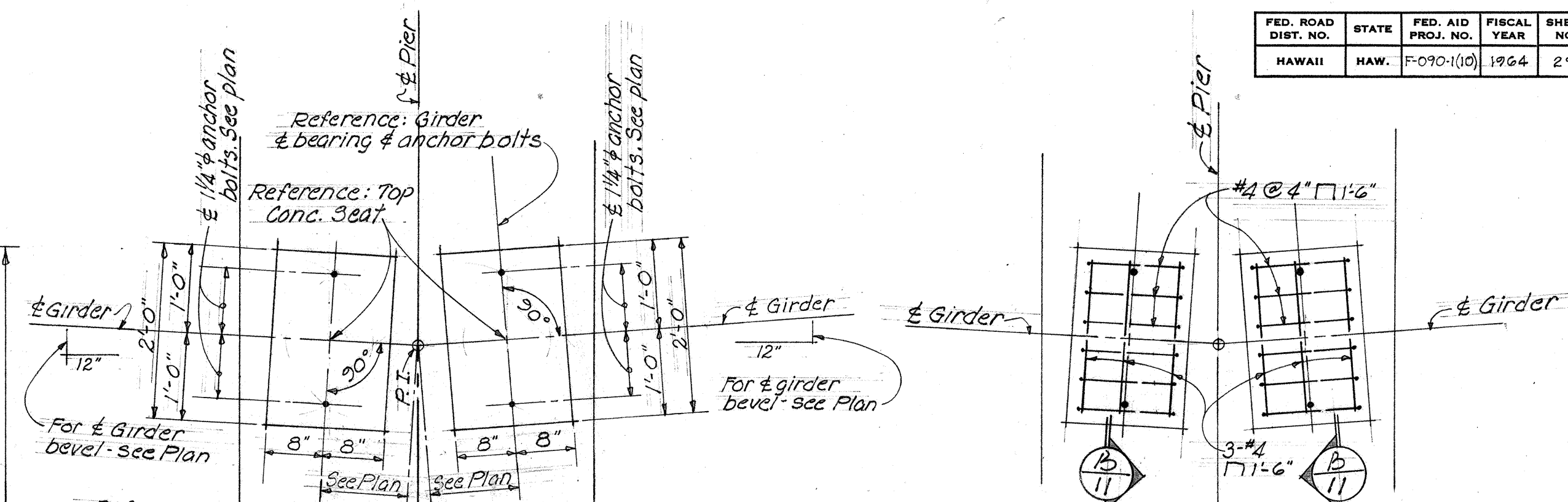
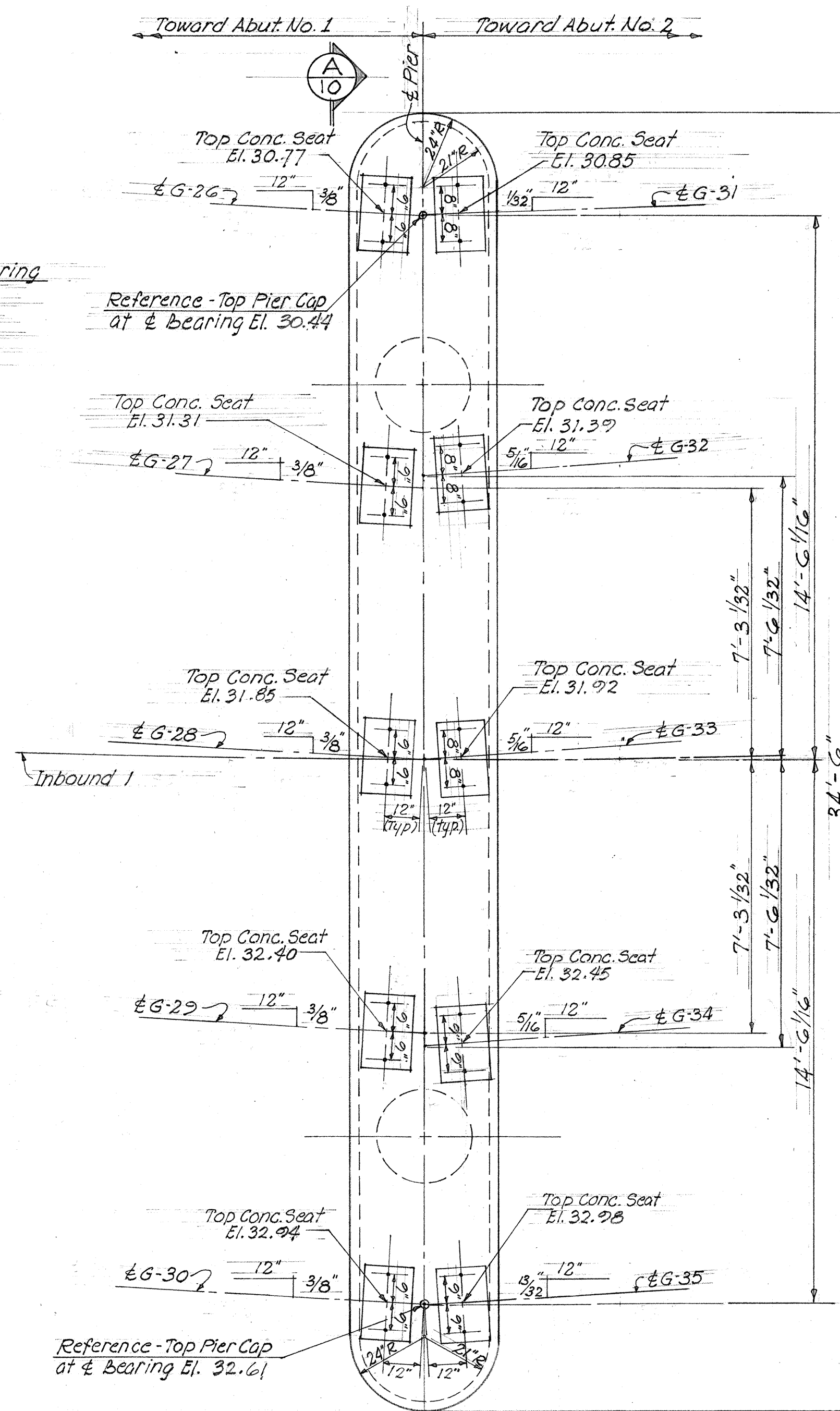
TOP PLAN-PIER No. 1, 2, 3, 4 & 5

Scale 3/8"=1'-0"



TOP PLAN-PIER No. 6

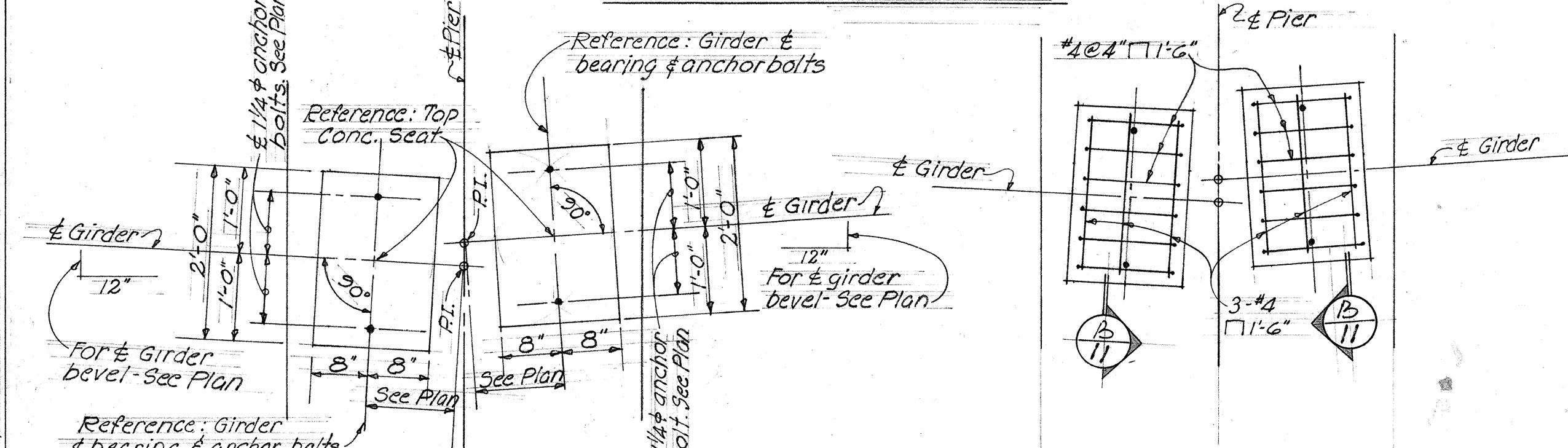
Scale 3/8"=1'-0"



SEAT DETAIL

SEAT REINFORCEMENT

AT TYPICAL SEAT



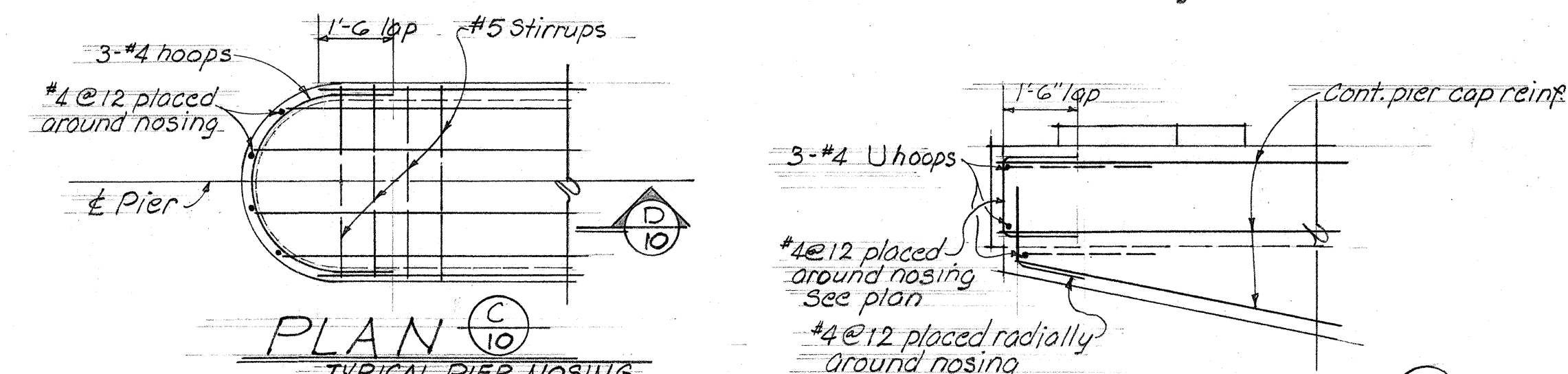
SEAT DETAIL

SEAT REINFORCEMENT

AT OFFSET SEAT

PLAN - TYPICAL CONCRETE SEAT DETAILS Scale 3/4"=1'-0"

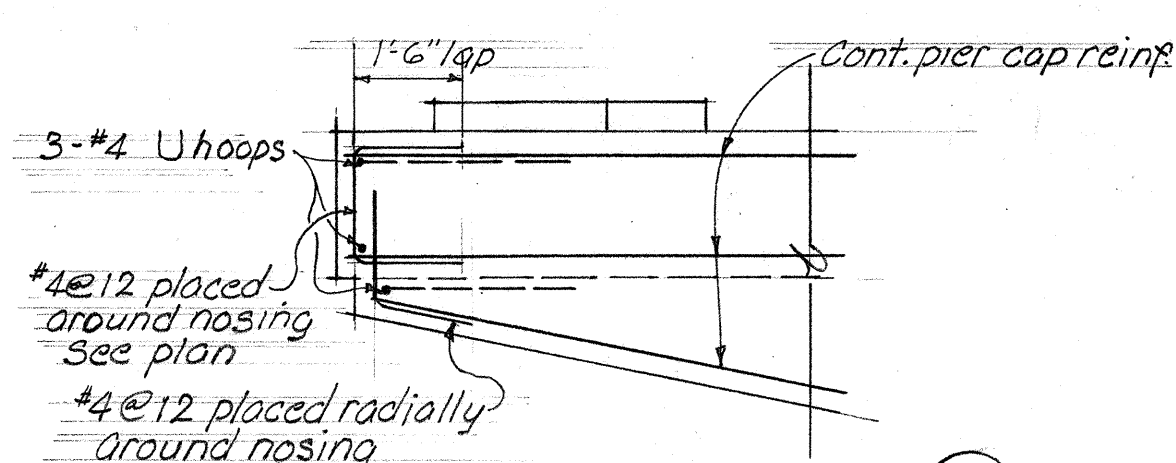
(PIER #1 THRU #6 INCLUSIVE)



PLAN C

TYPICAL PIER NOSING

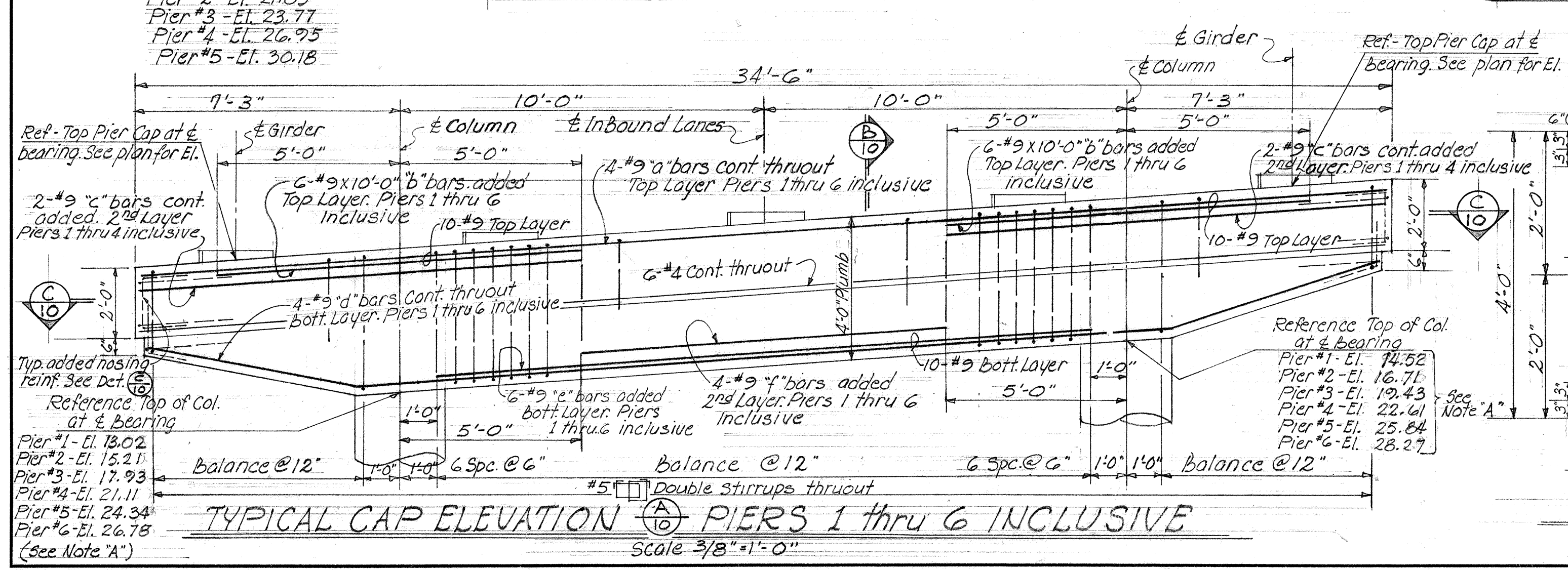
Scale: 3/8"=1'-0"



SECTION D

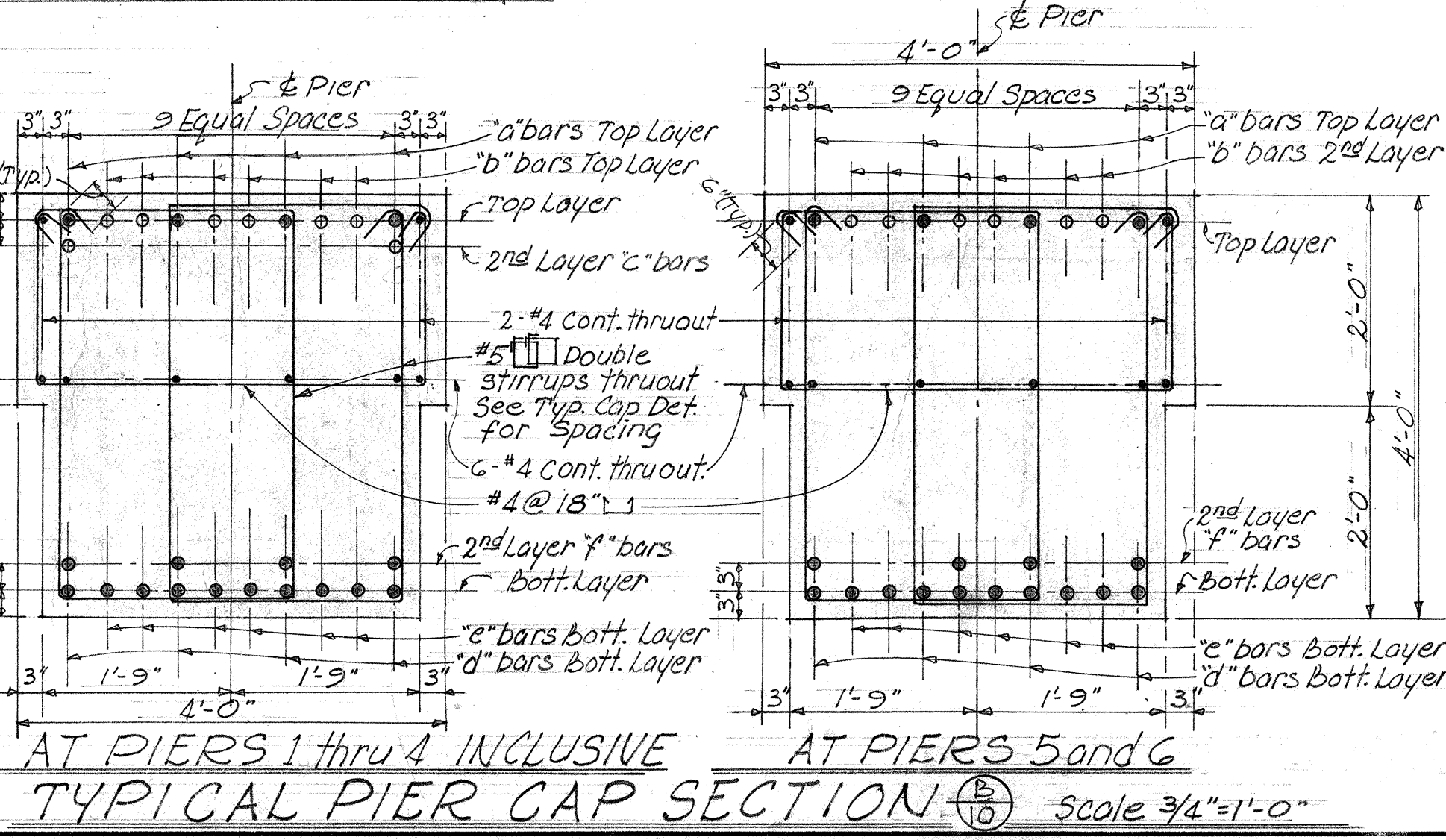
TYPICAL PIER NOSING

Scale 3/8"=1'-0"



TYPICAL CAP ELEVATION A PIER 1 THRU 6 INCLUSIVE

Scale 3/8"=1'-0"



AT PIERS 1 THRU 4 INCLUSIVE

AT PIERS 5 AND 6

TYPICAL PIER CAP SECTION B Scale 3/4"=1'-0"

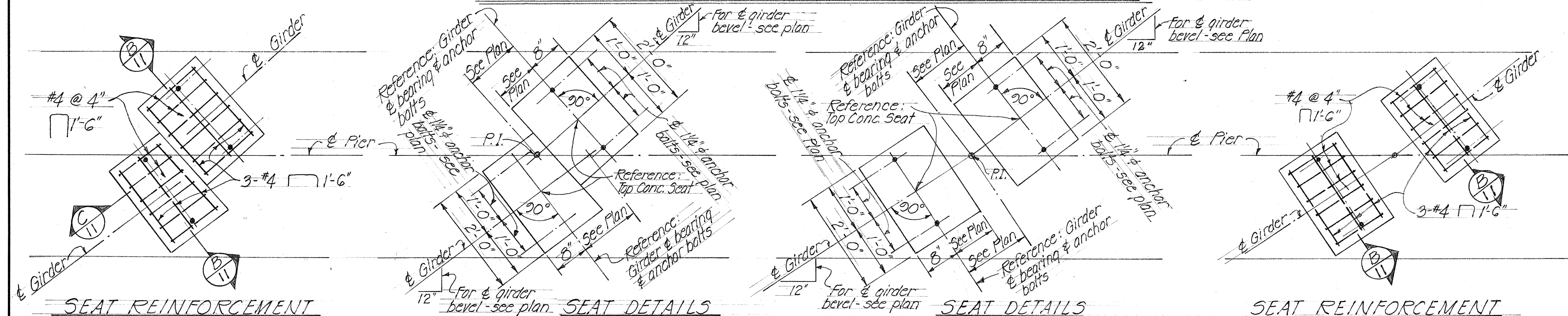
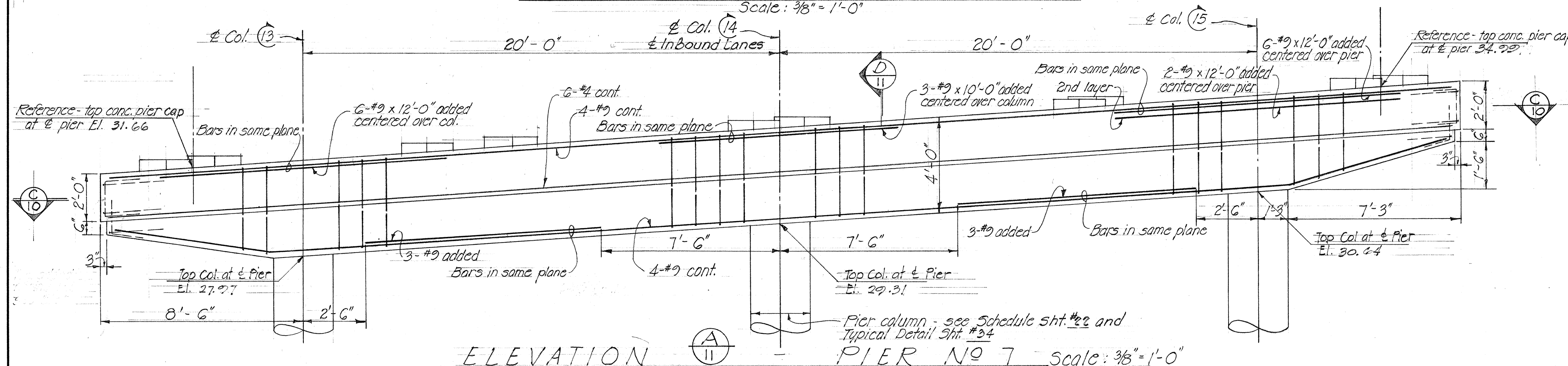
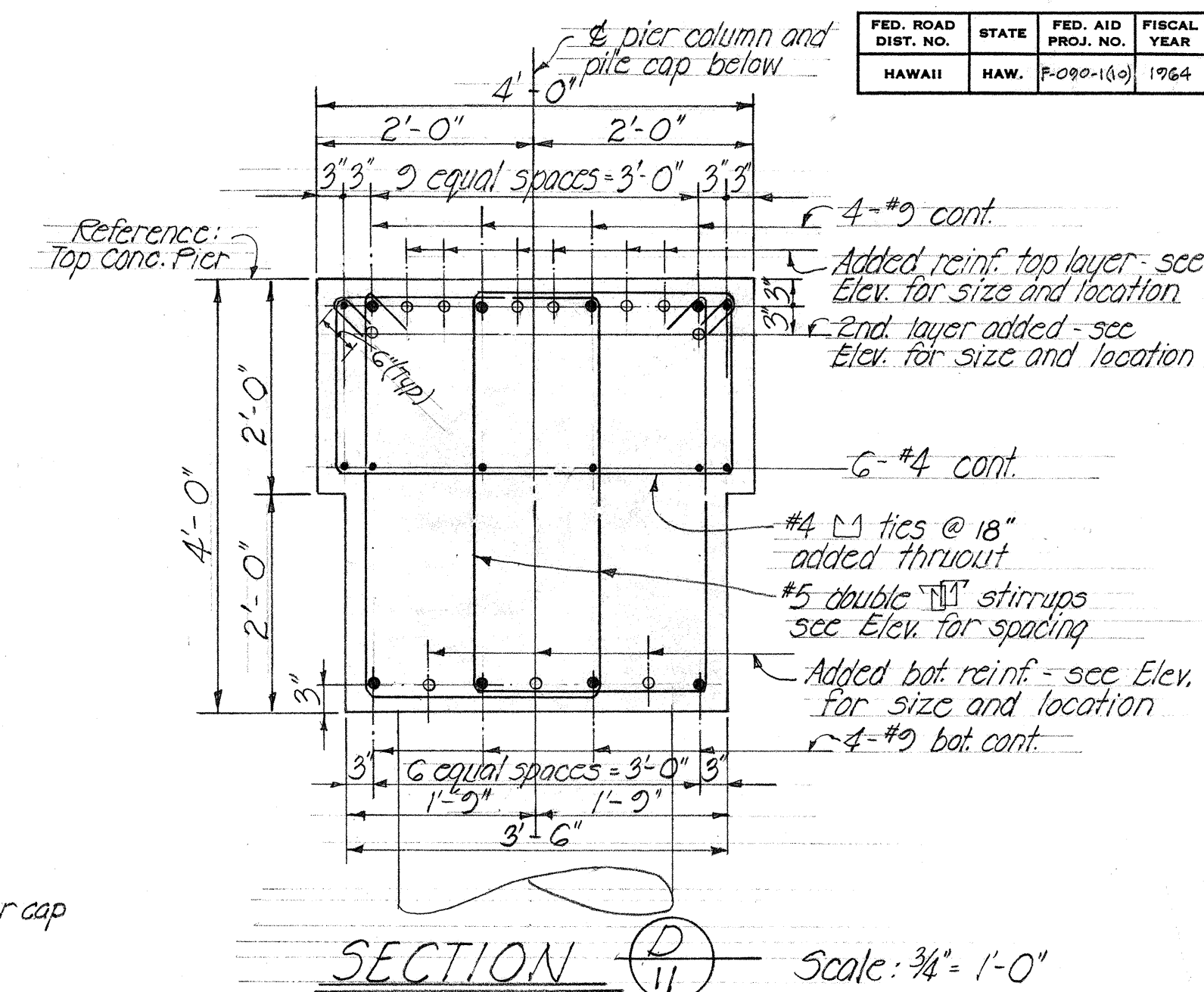
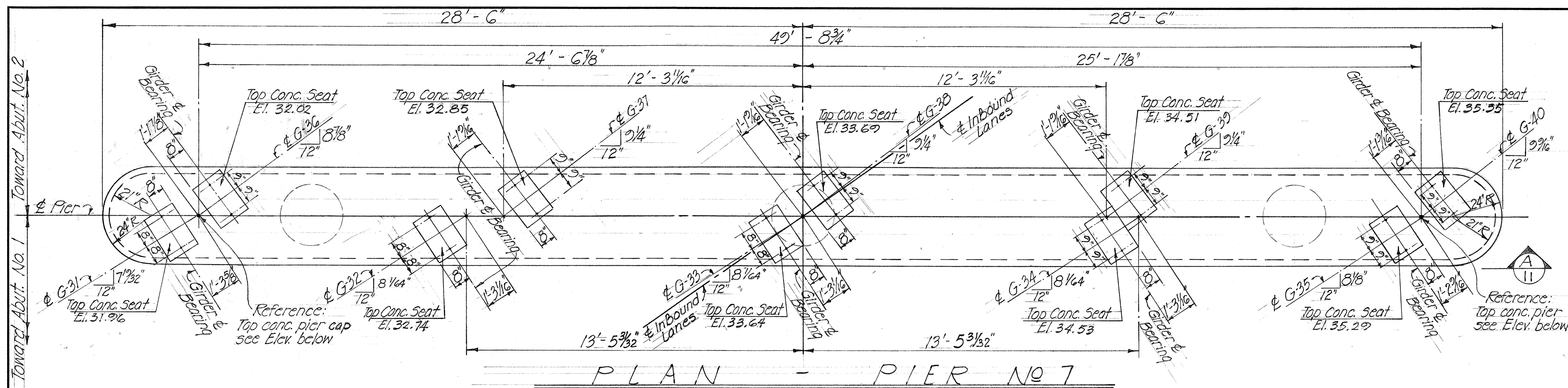
Note "A": Top of pier cap columns to match soffit of pier caps slopes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AIEA INTERCHANGE
STRUCTURE No. 2
TYPICAL PIER No. 1, 2, 3, 4, 5, 6 & DETAILS
13.5 Sta. 112+89.75 to 13.5 Sta. 119+87.60
Kamehameha Hwy. Proj. No. F-090-1(10)

SHEET No. 10 OF 15 SHEETS

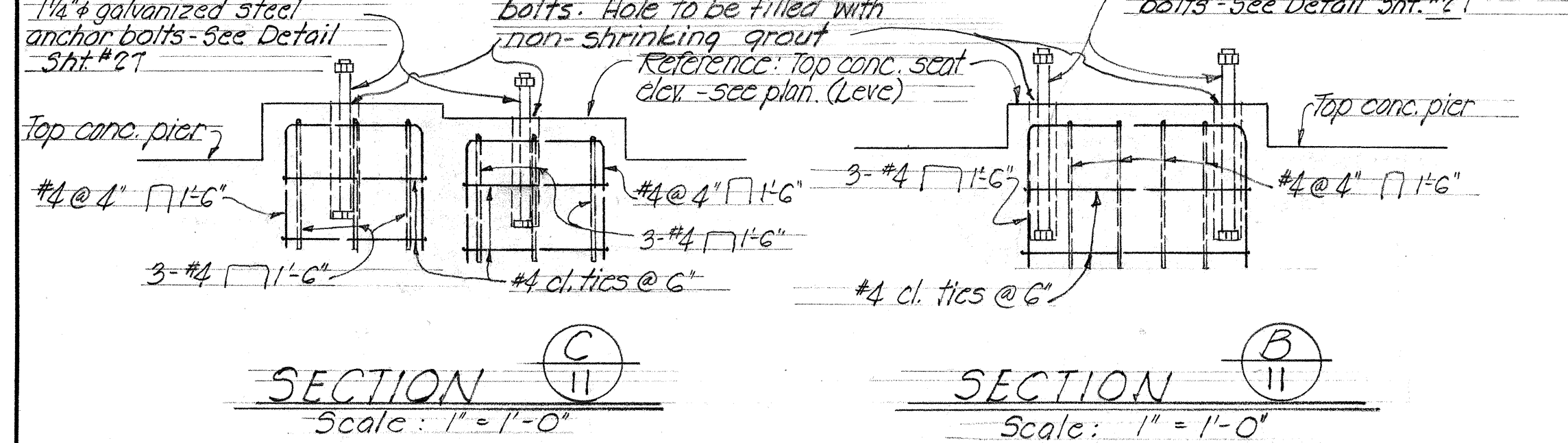
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-090-1(10)	1964	30	58



SEAT REINFORCEMENT AT OFFSET COMBINED SEATS

SEAT REINFORCEMENT AT SINGLE SEAT

PLAN - TYPICAL CONCRETE SEAT DETAILS Scale: 3/4" = 1'-0"



SECTION C-11 Scale: 1" = 1'-0"

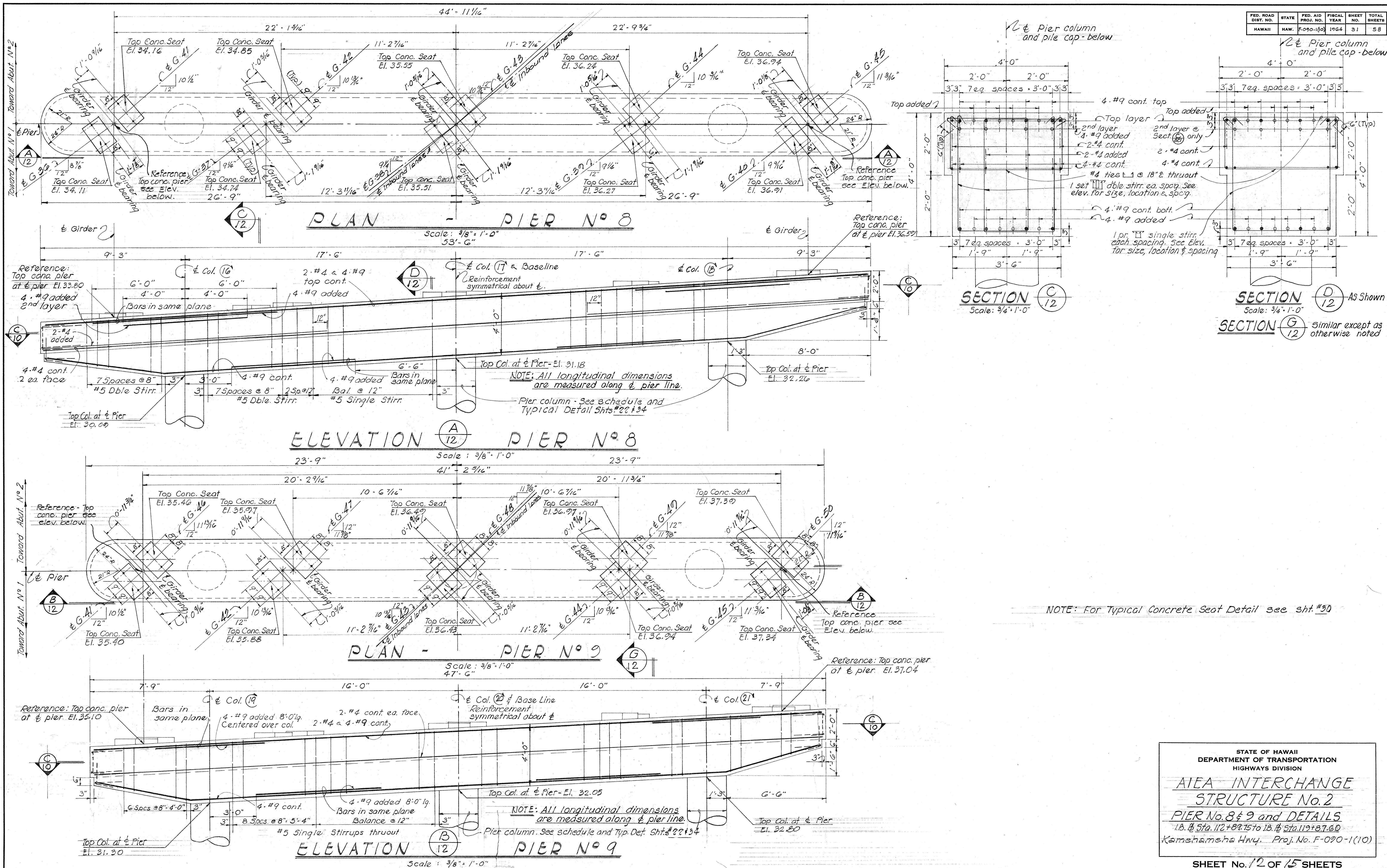
SECTION B-11 Scale: 1" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
AIEA INTERCHANGE
STRUCTURE No. 2
PIER No. 7 and DETAILS
I.B. & Sta. 112+89.75 to I.B. & Sta. 112+87.60
Kamehameha Hwy. Proj. No. F-090-1(10)

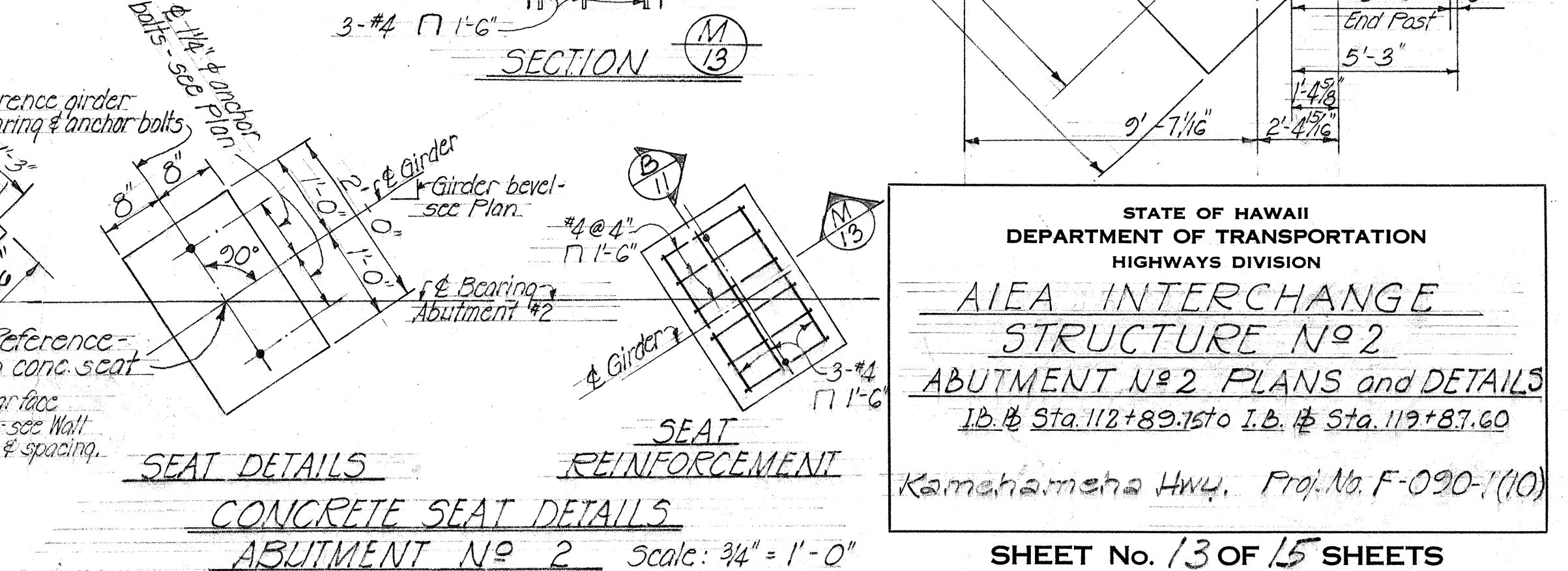
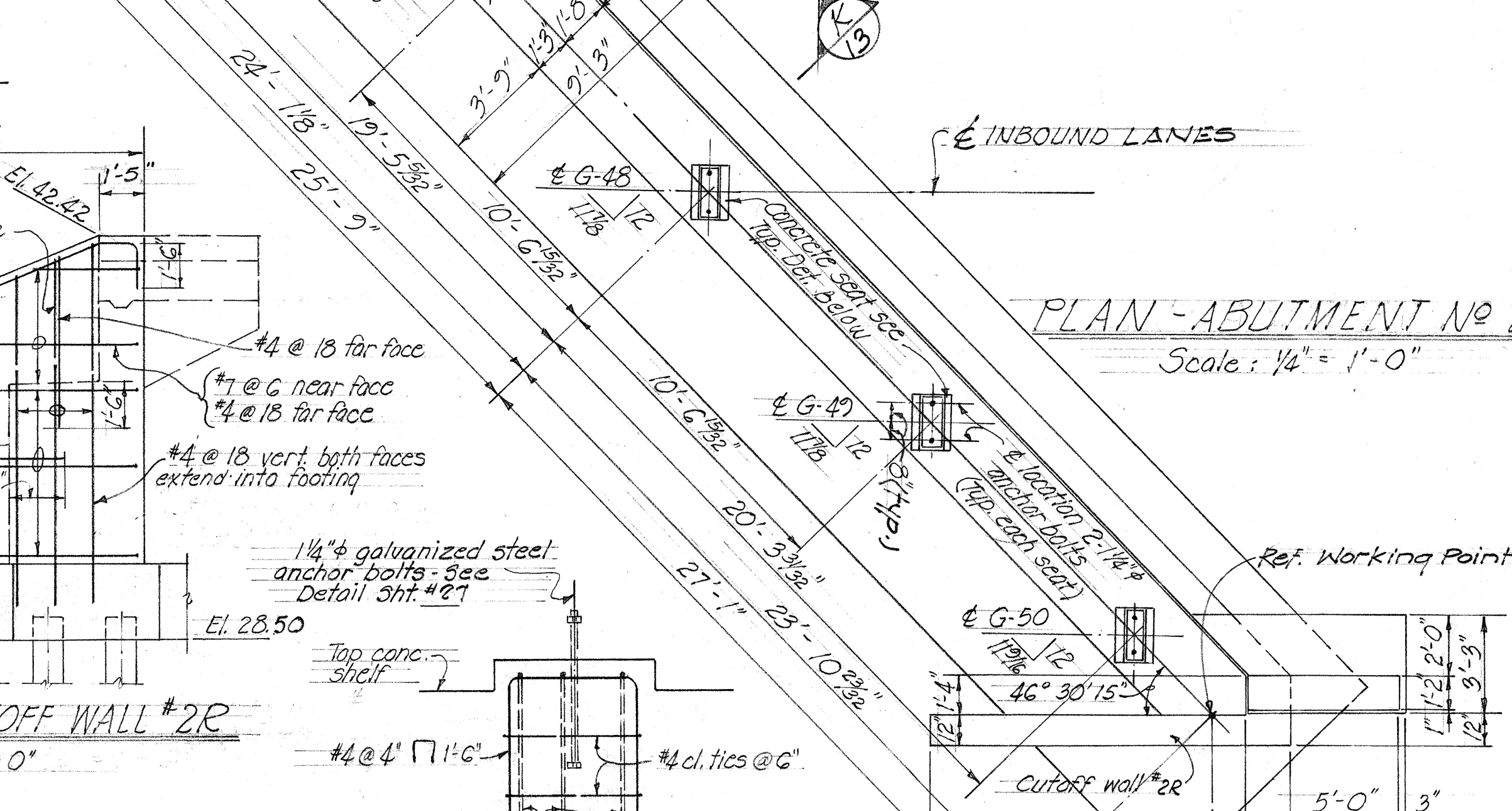
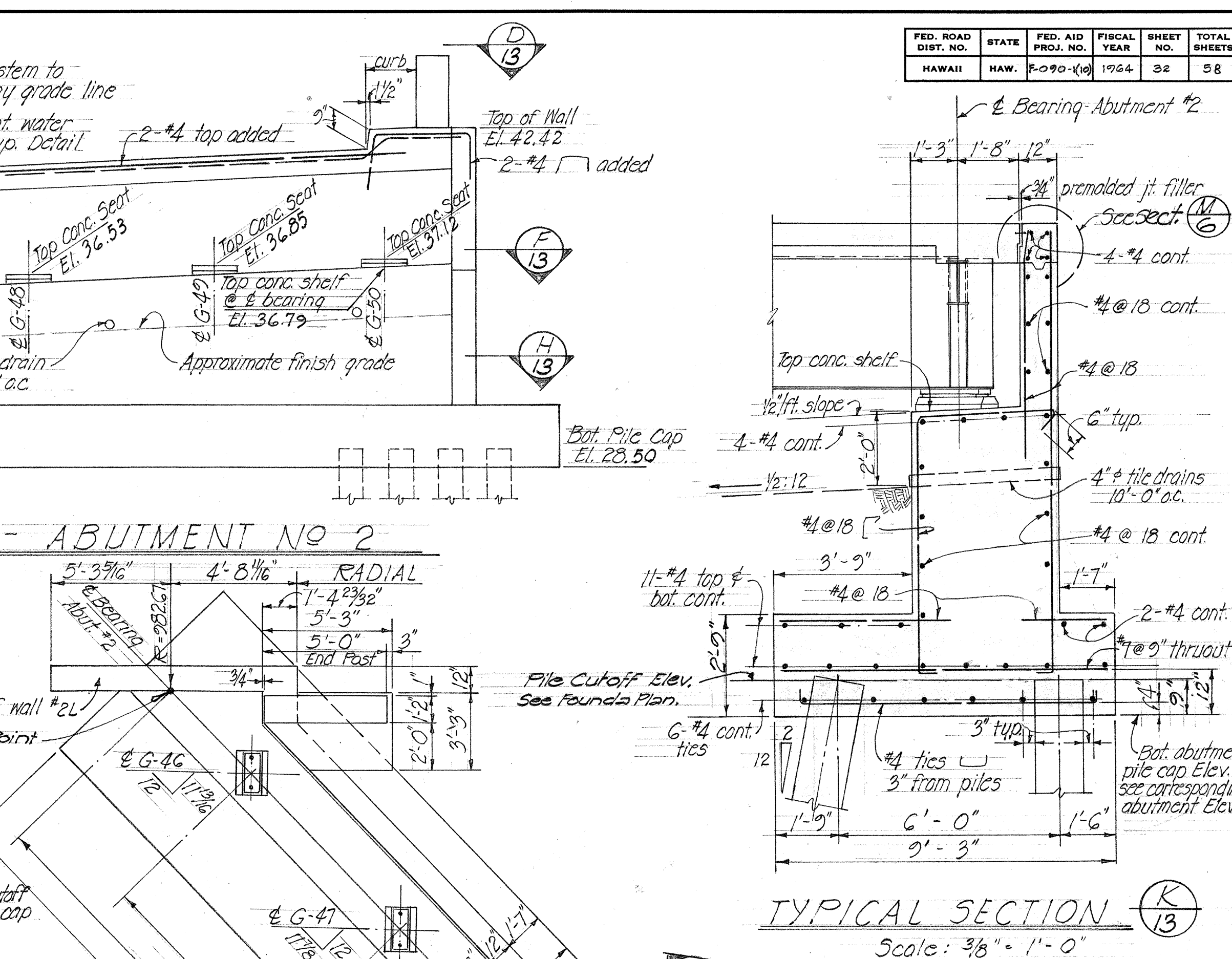
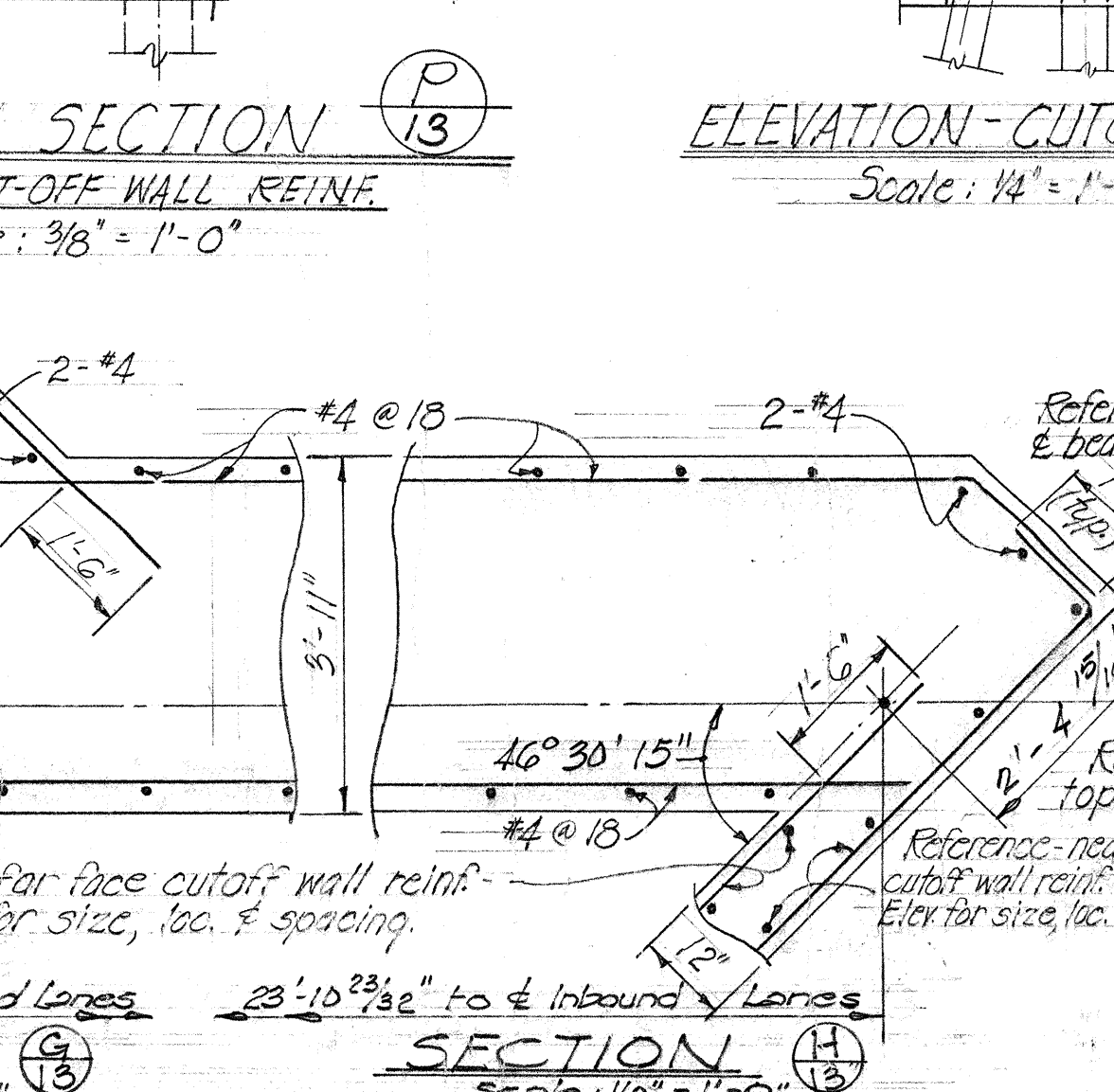
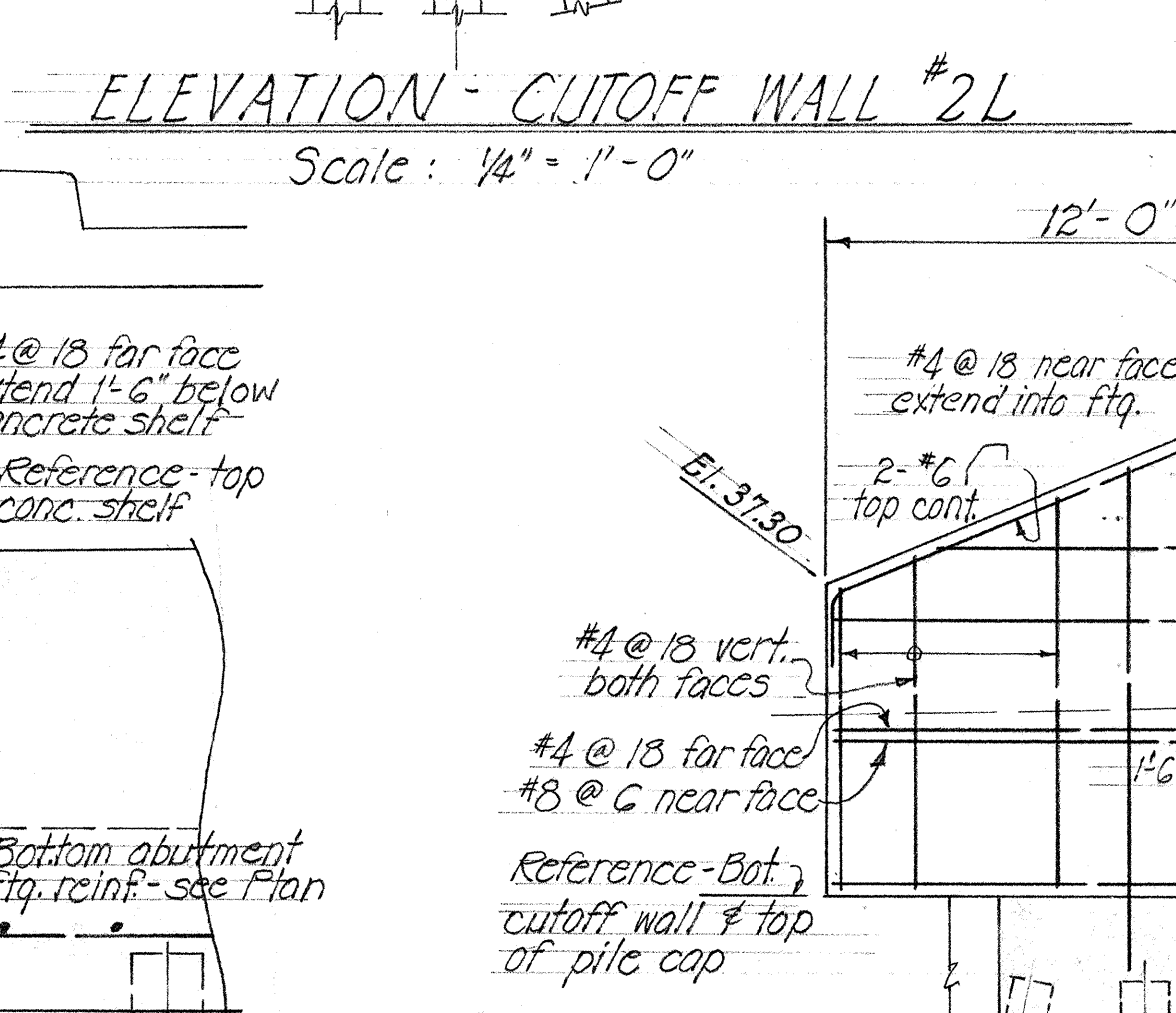
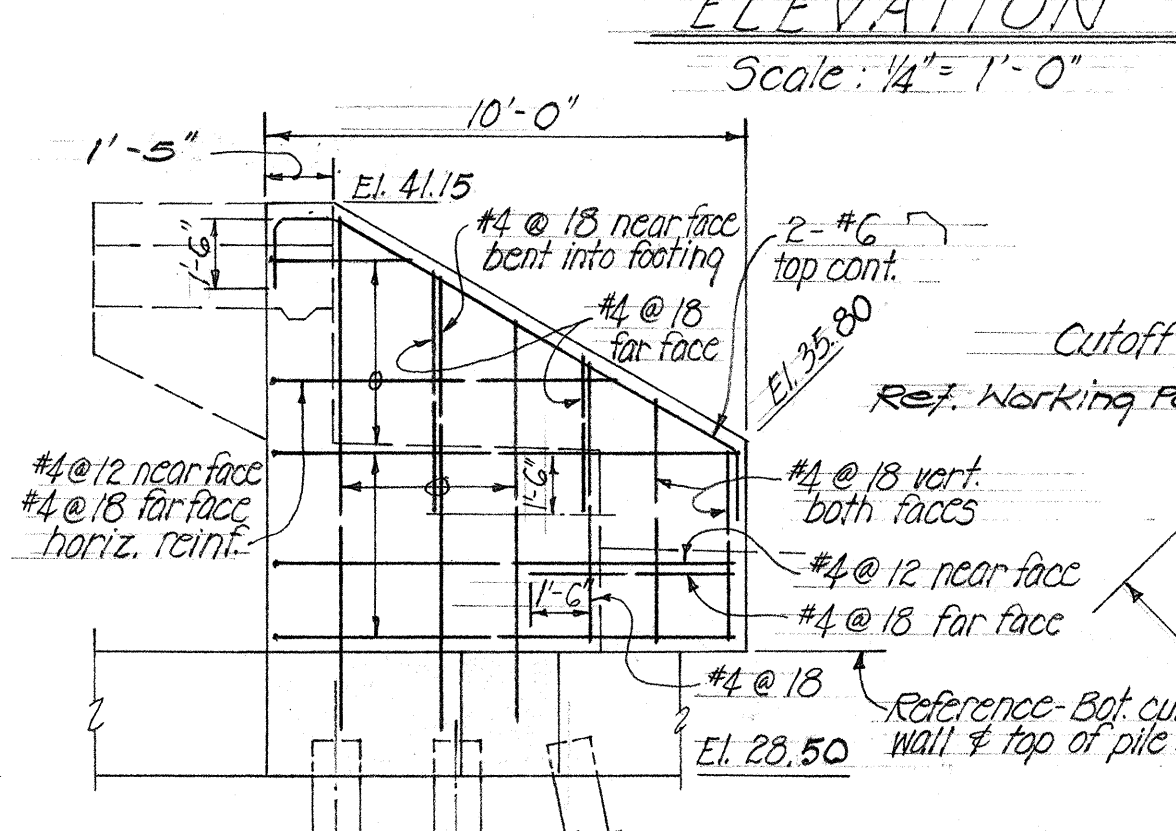
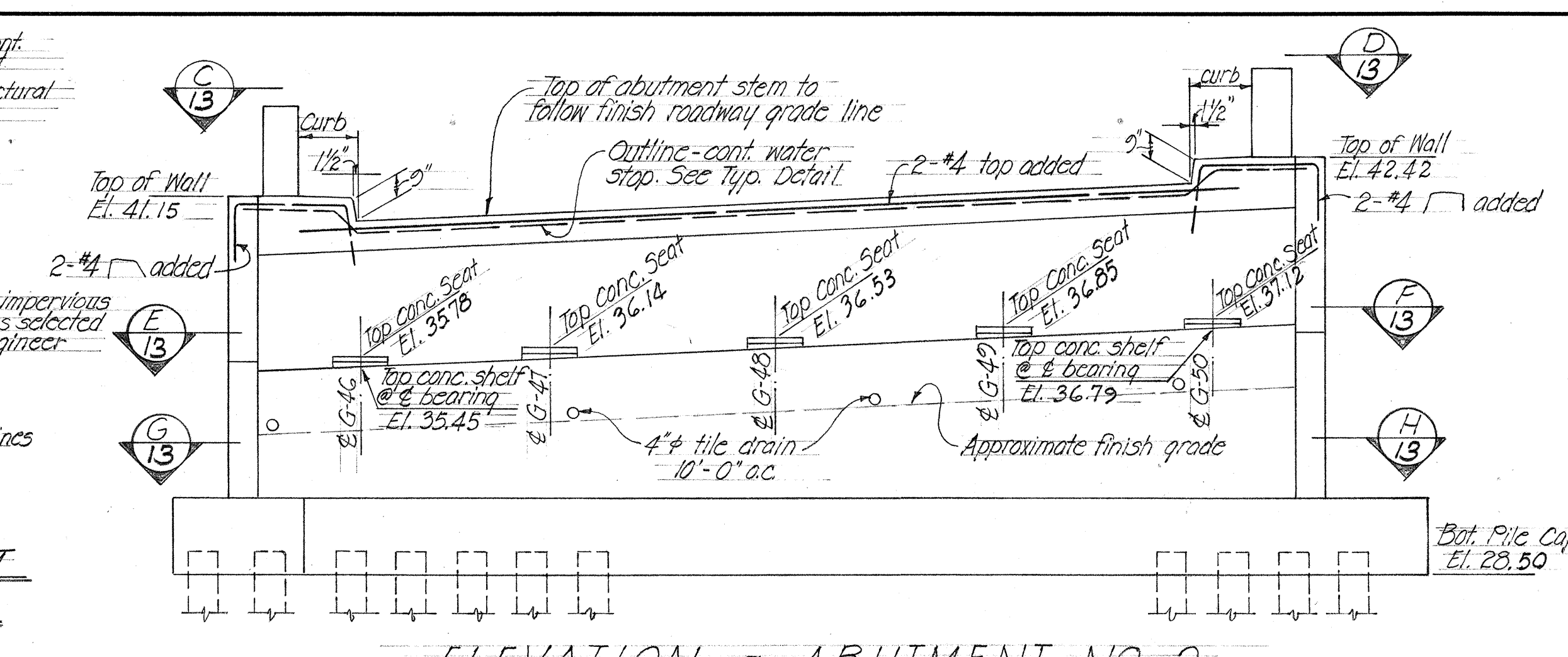
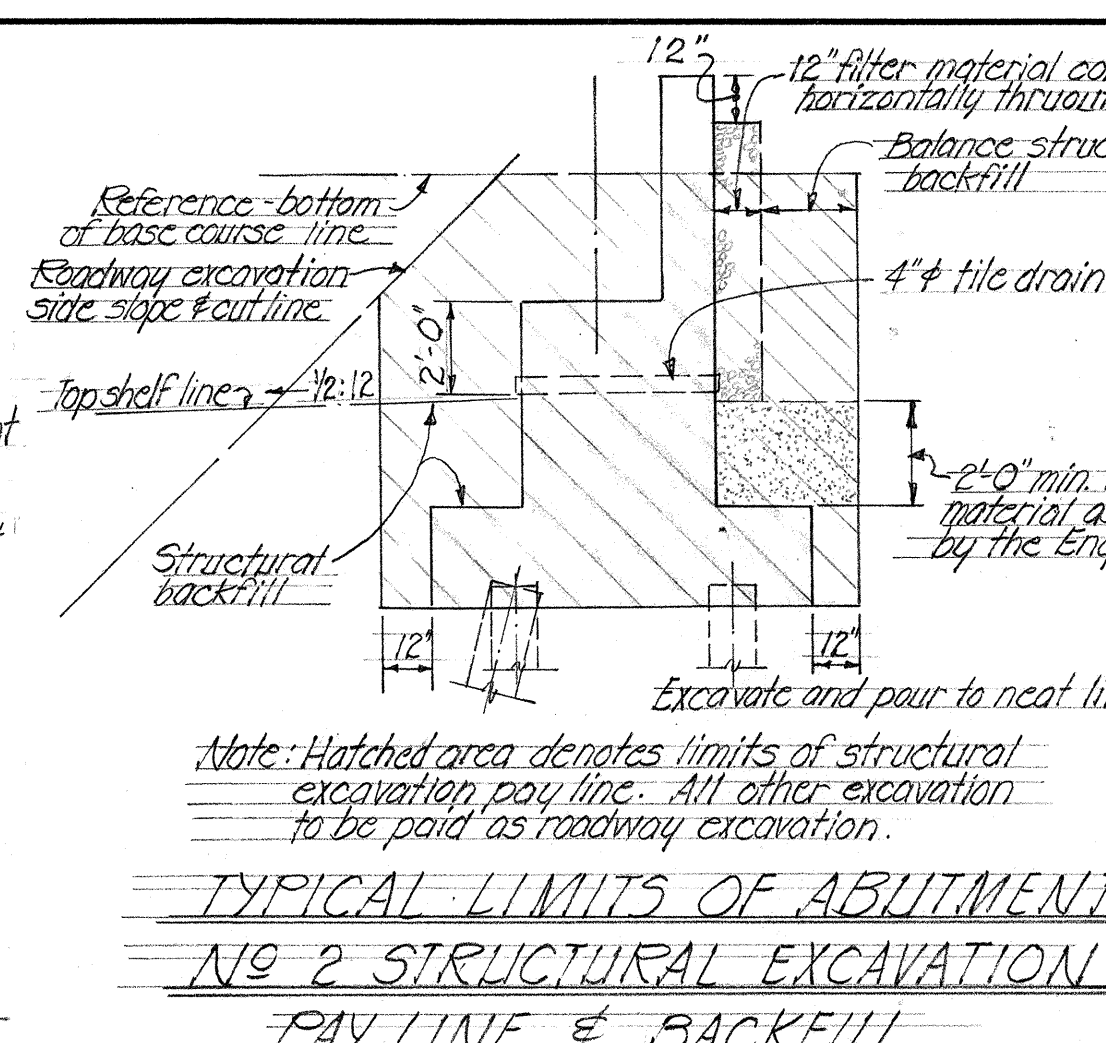
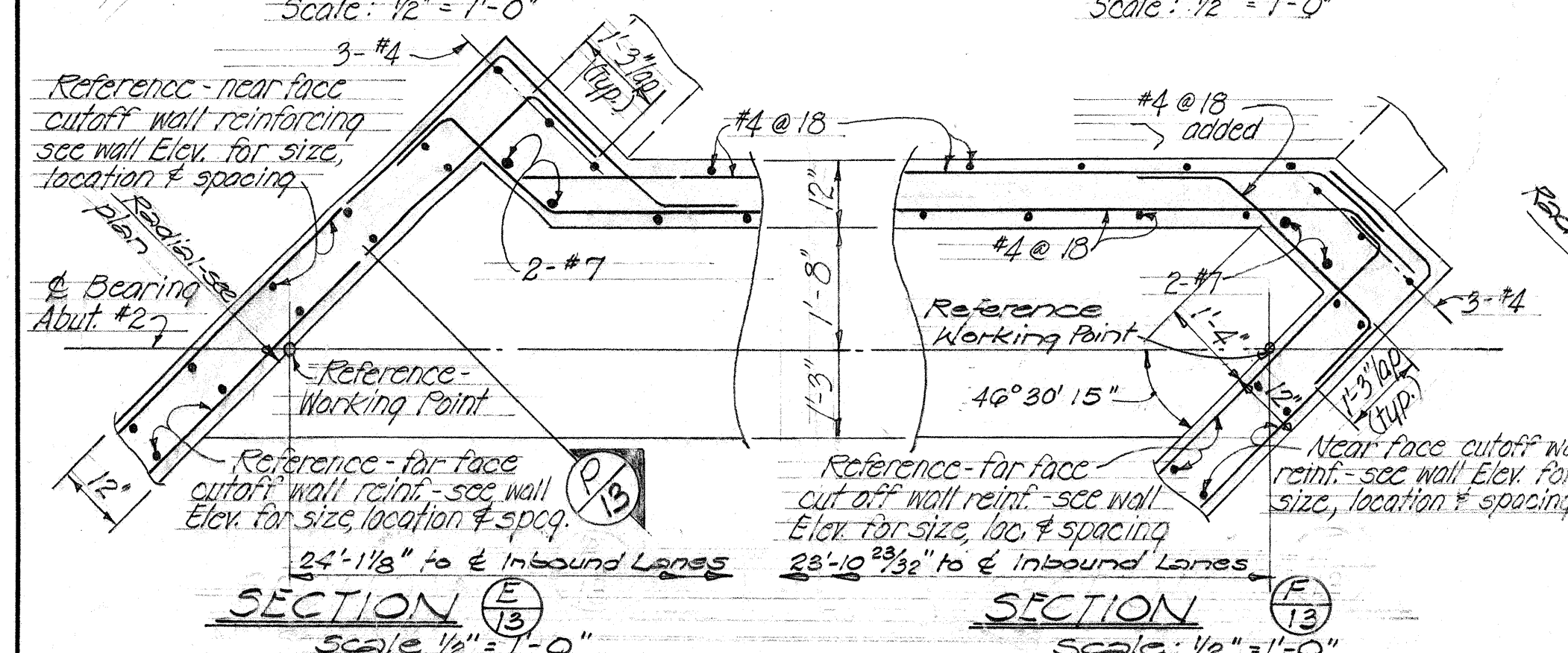
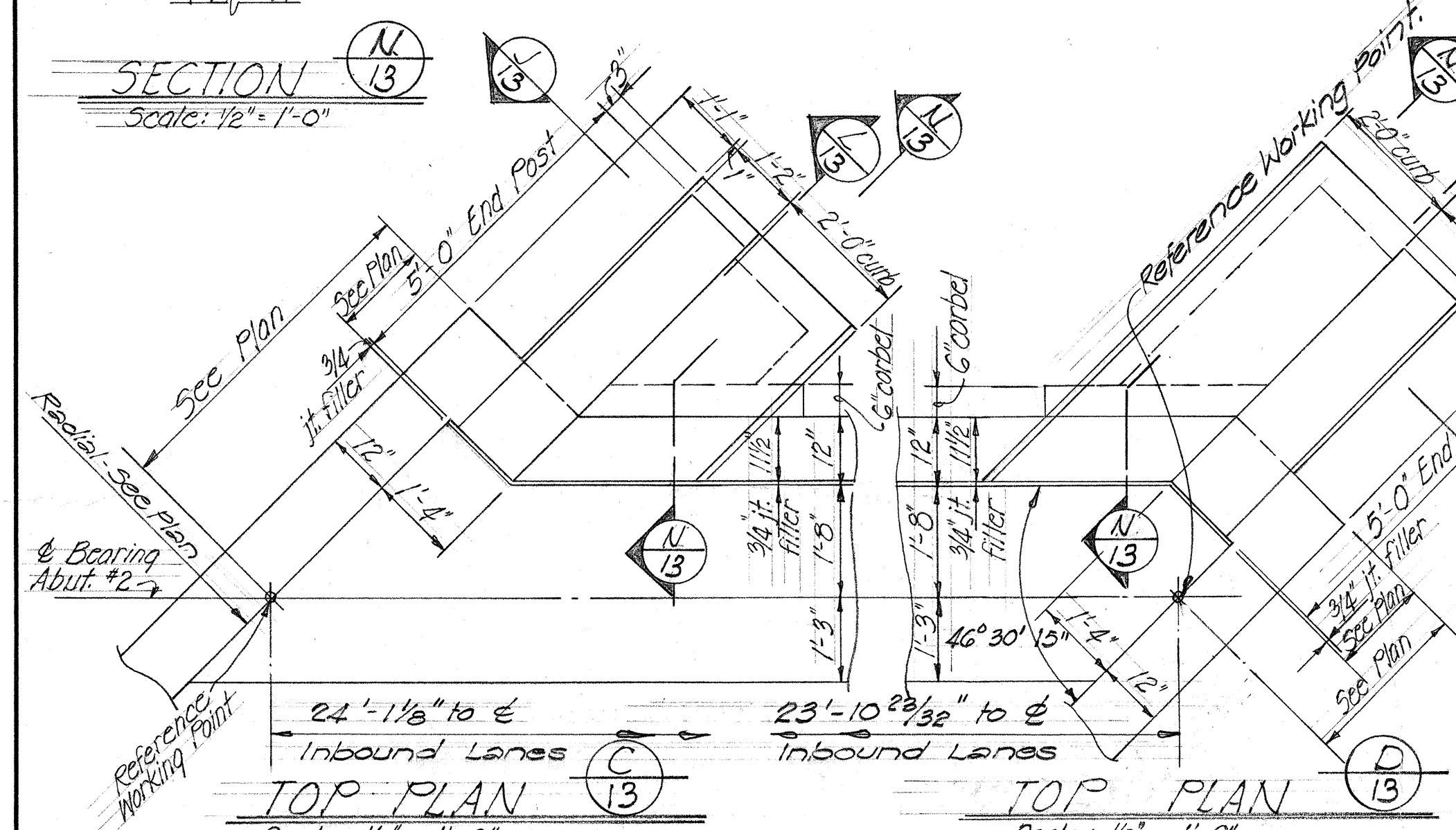
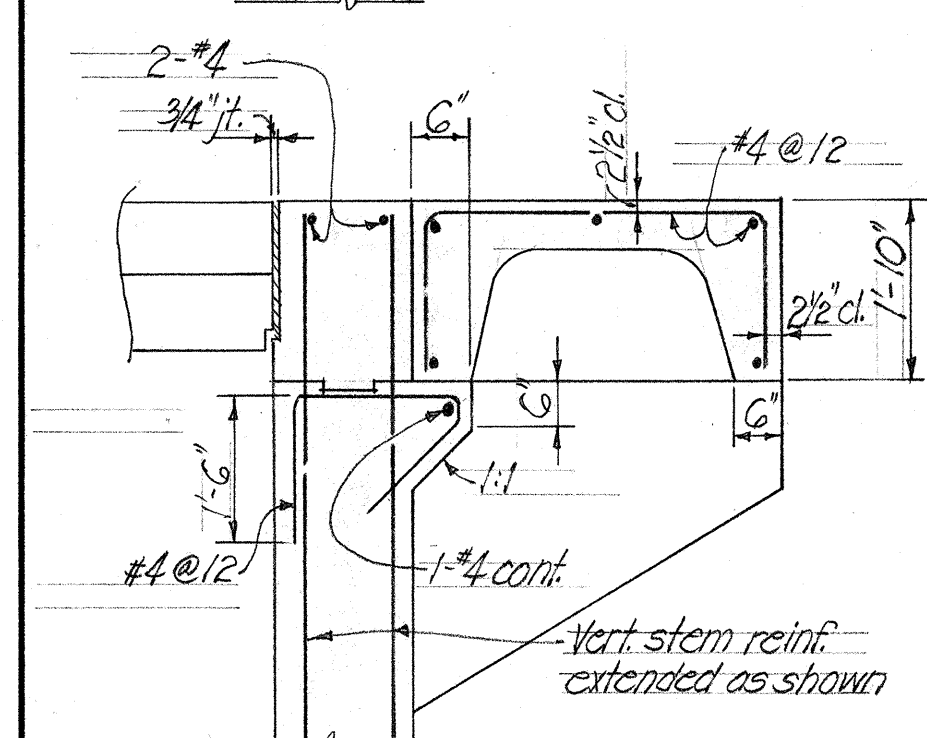
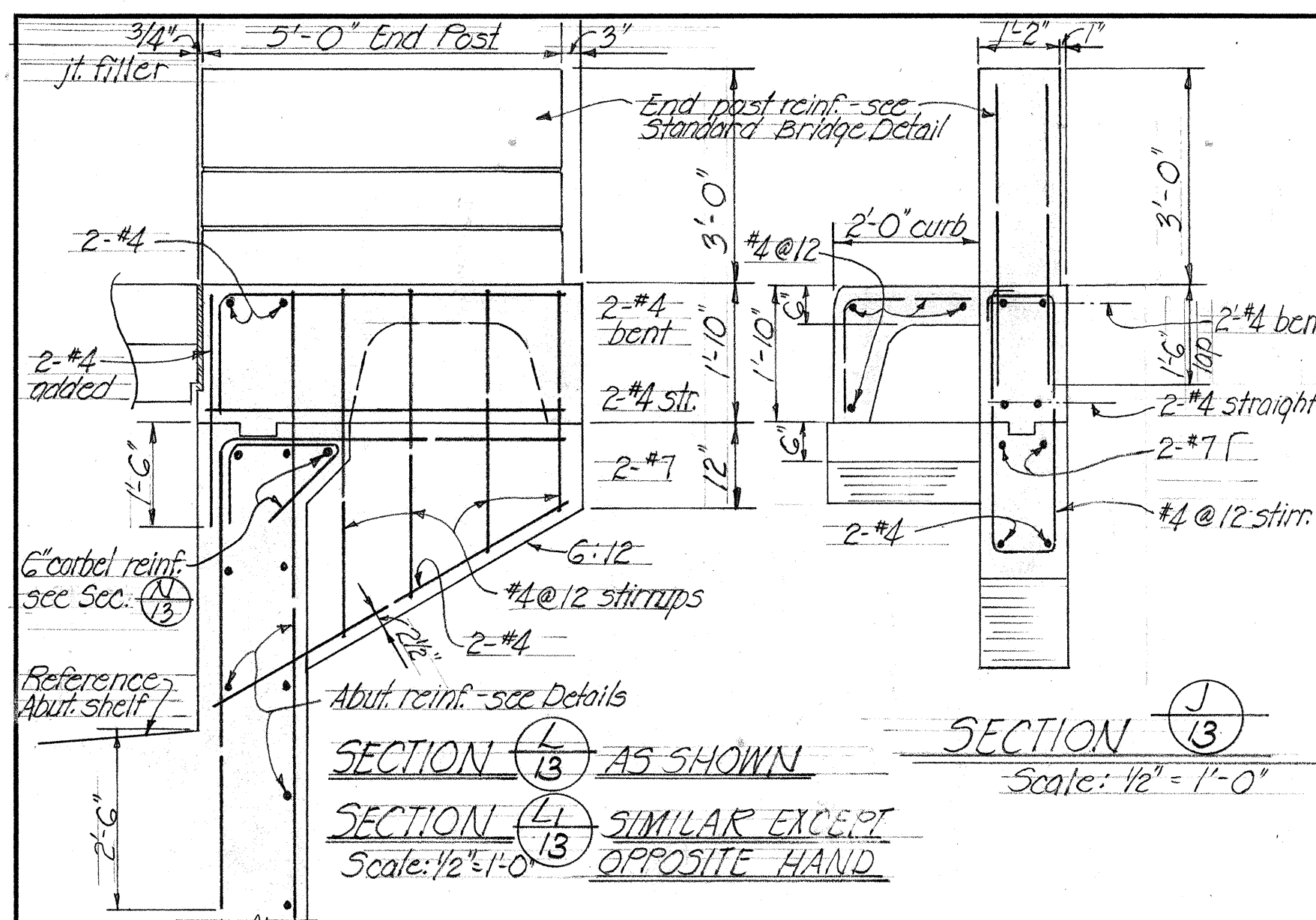
SHEET No. 11 OF 15 SHEETS

SURVEY PLOTTED BY: DATE: 4/64
DESIGNED BY: L.A. 4/64
CHECKED BY: J. 4/64
NOTE BOOK
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	F-090-1(10)	1964	31	58

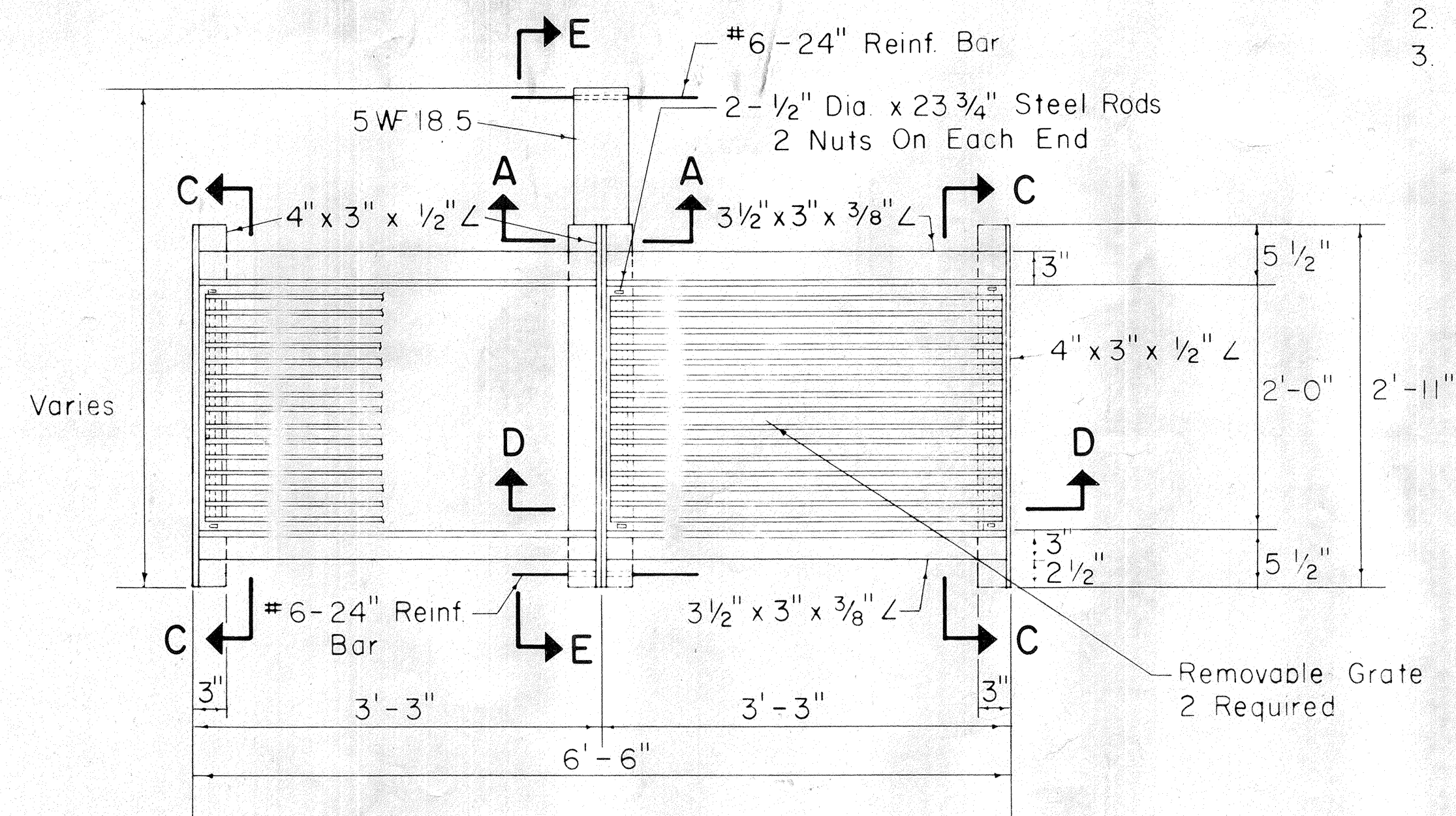


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-090-1(10)	1964	32	58

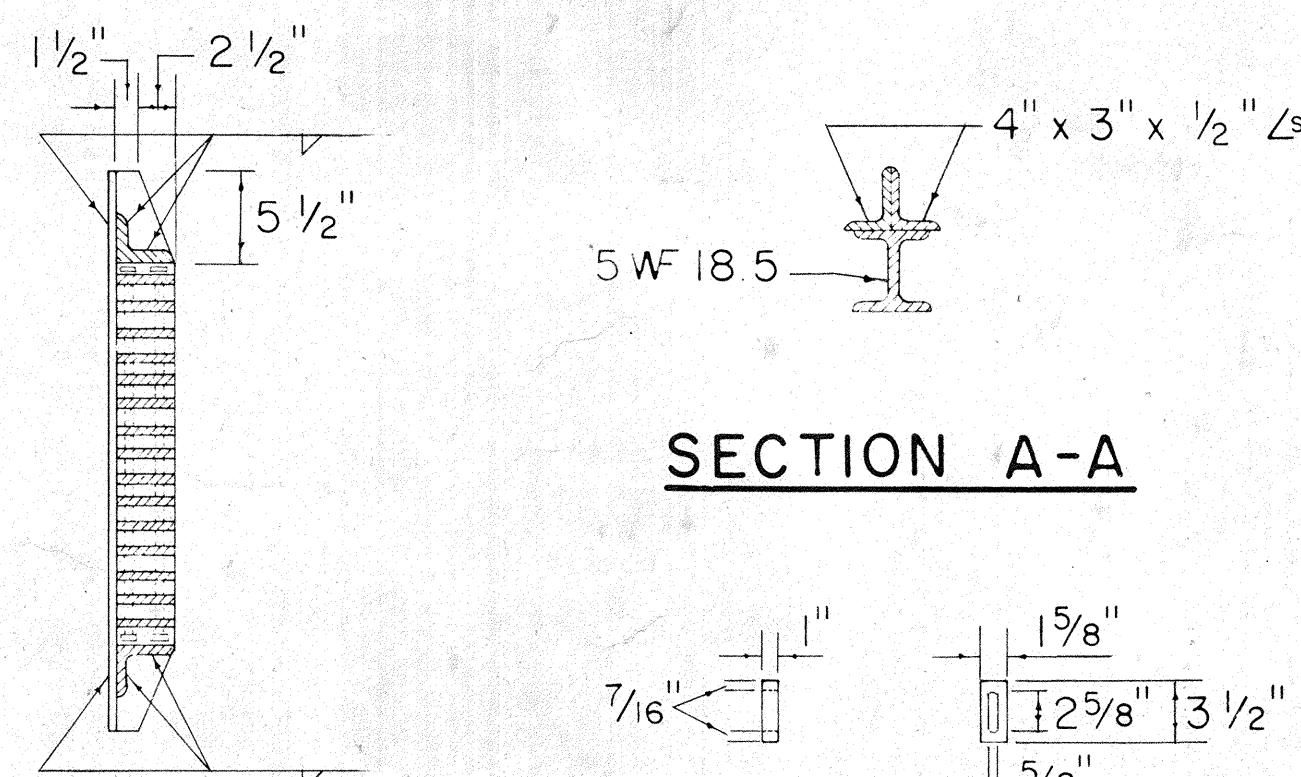


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**AIEA INTERCHANGE
STRUCTURE NO 2**
ABUTMENT NO 2 PLANS and DETAILS
I.D. # Sta. 112+82.15 to I.D. # Sta. 112+87.60
Kamoharua Hwy., Proj. No. F-090-1(10)
SHEET No. 13 OF 15 SHEETS

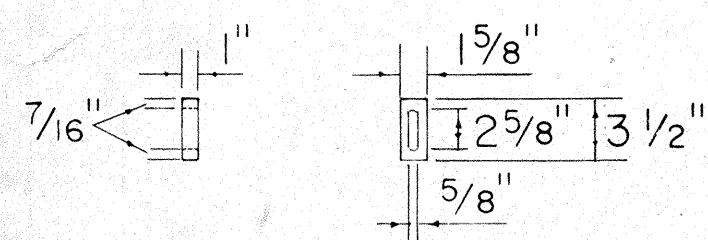
DATE: 6/64
DESIGNED BY: L. A. ASHLEY
CHECKED BY: J. C. HANCOCK
ORIGINAL PLAN
NOTE BOOK
QUANTITIES BY: J. C. HANCOCK



PLAN

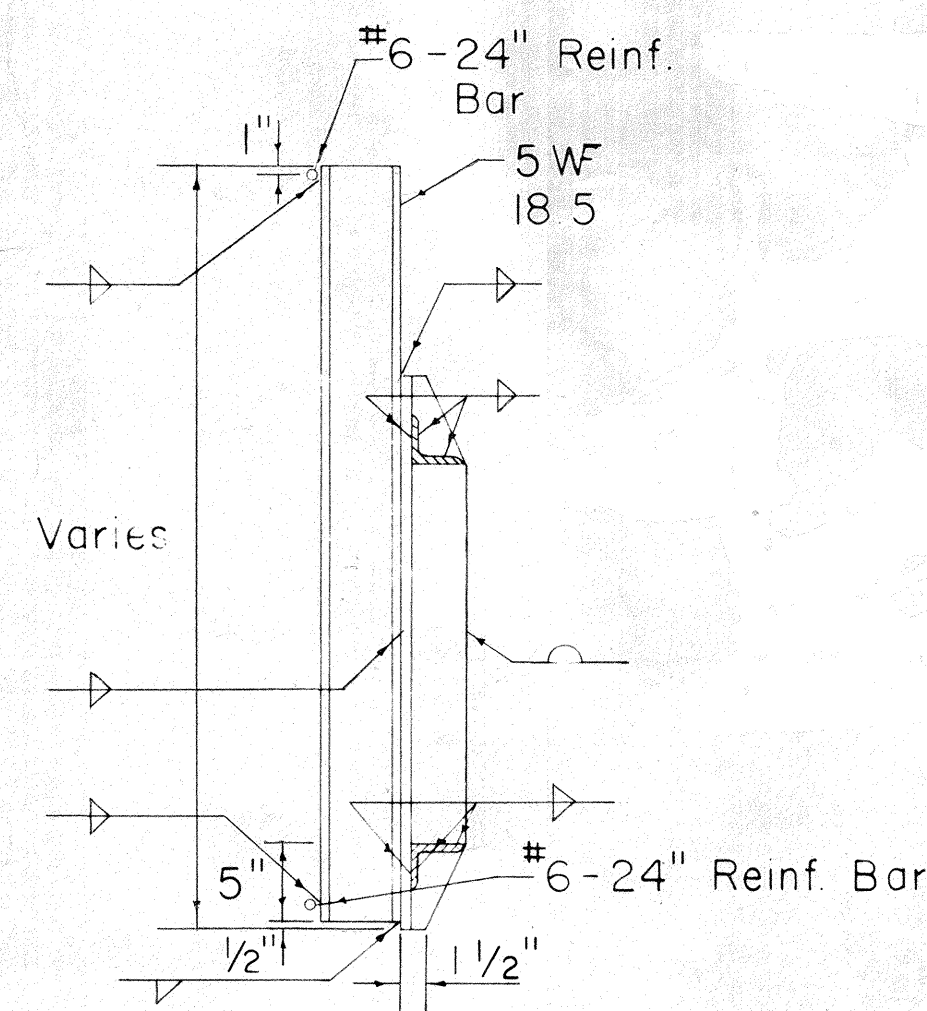


SECTION A-A

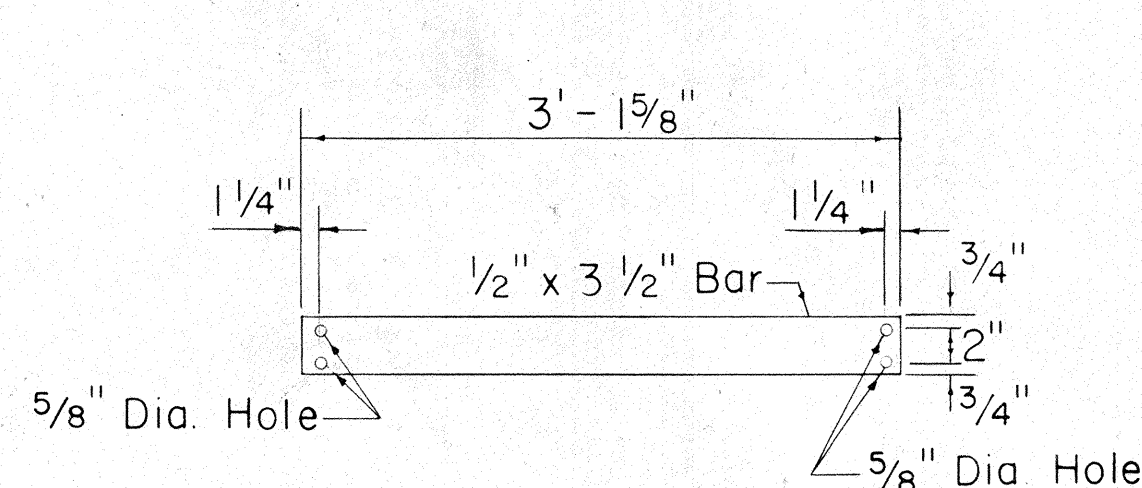


END SPACER

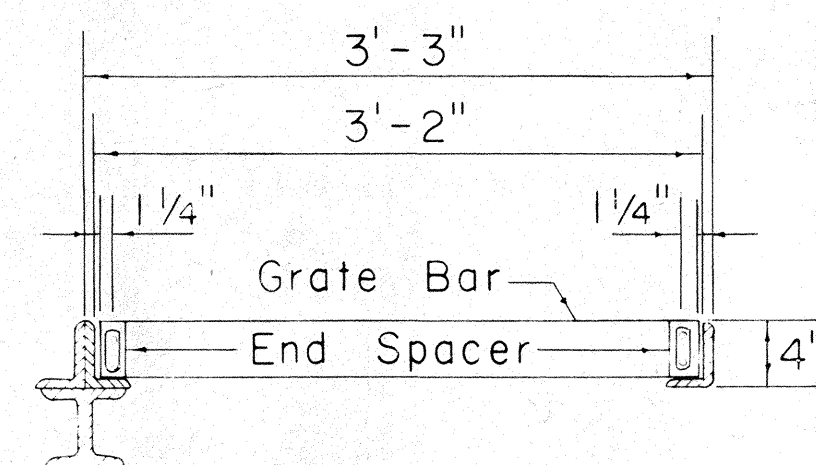
SECTION C-C



SECTION E-E



GRATE BARS

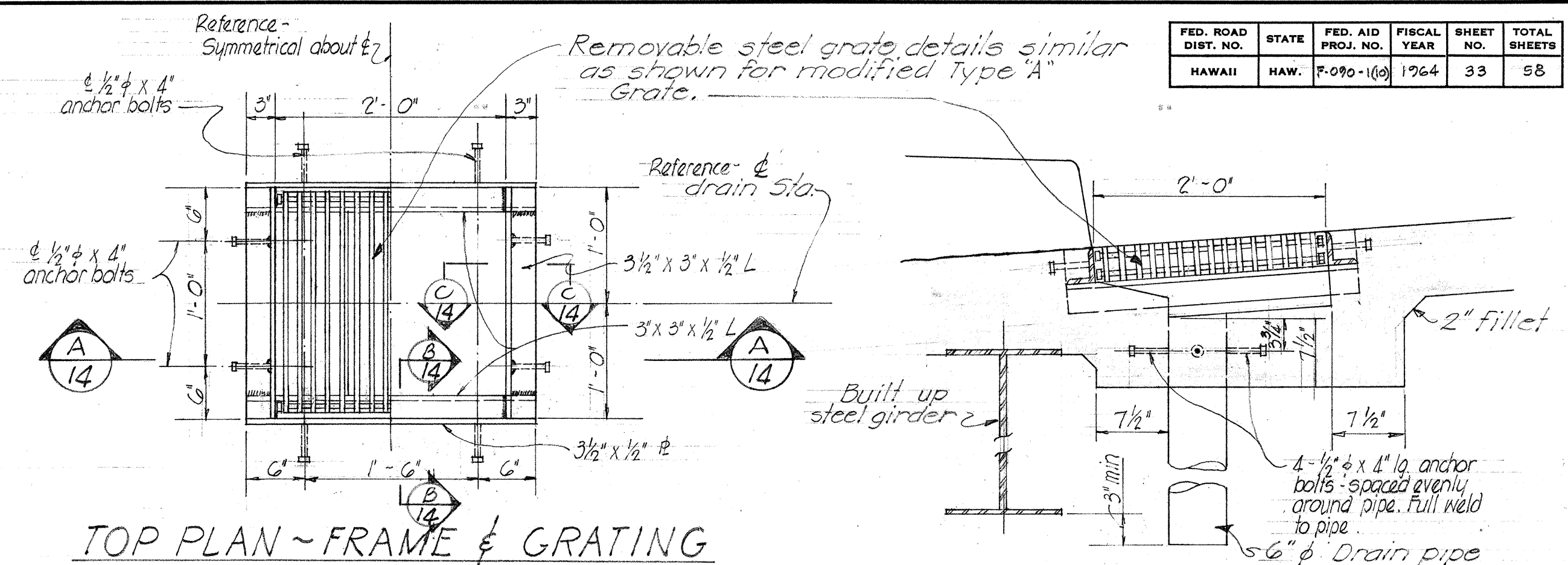


SECTION D-D

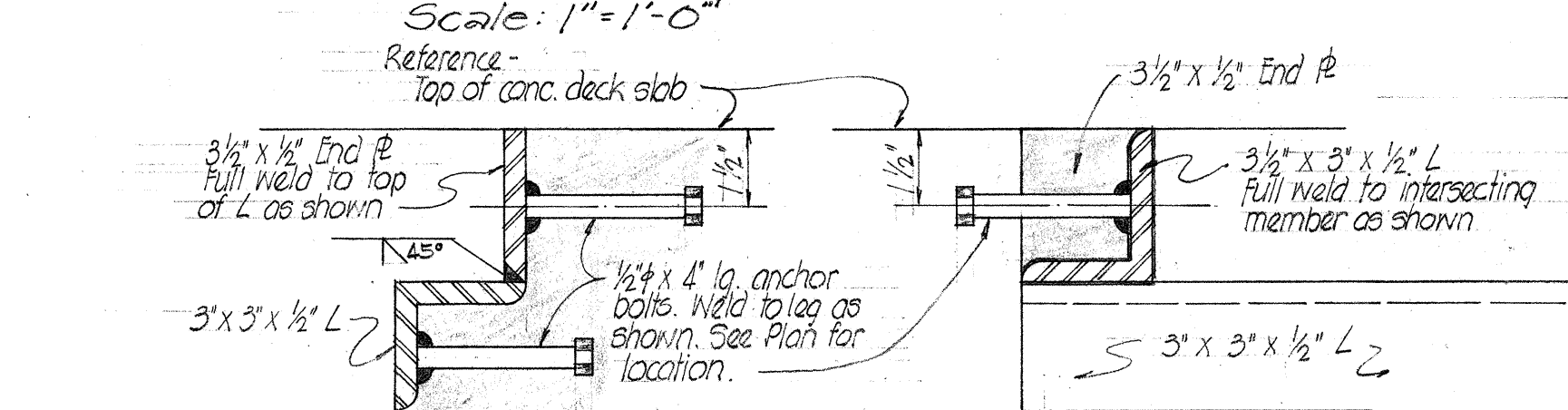
DETAIL OF TYPE "A" STEEL FRAME AND GRATES

Scale: 1" = 1'-0"

- NOTE:
1. All welds $\frac{3}{8}$ " unless otherwise noted.
 2. All steel shall be structural grade
 3. Grates and Frame shall be hot dip galvanized after fabrication in accordance with Section 44(H) of the Standard Specifications.



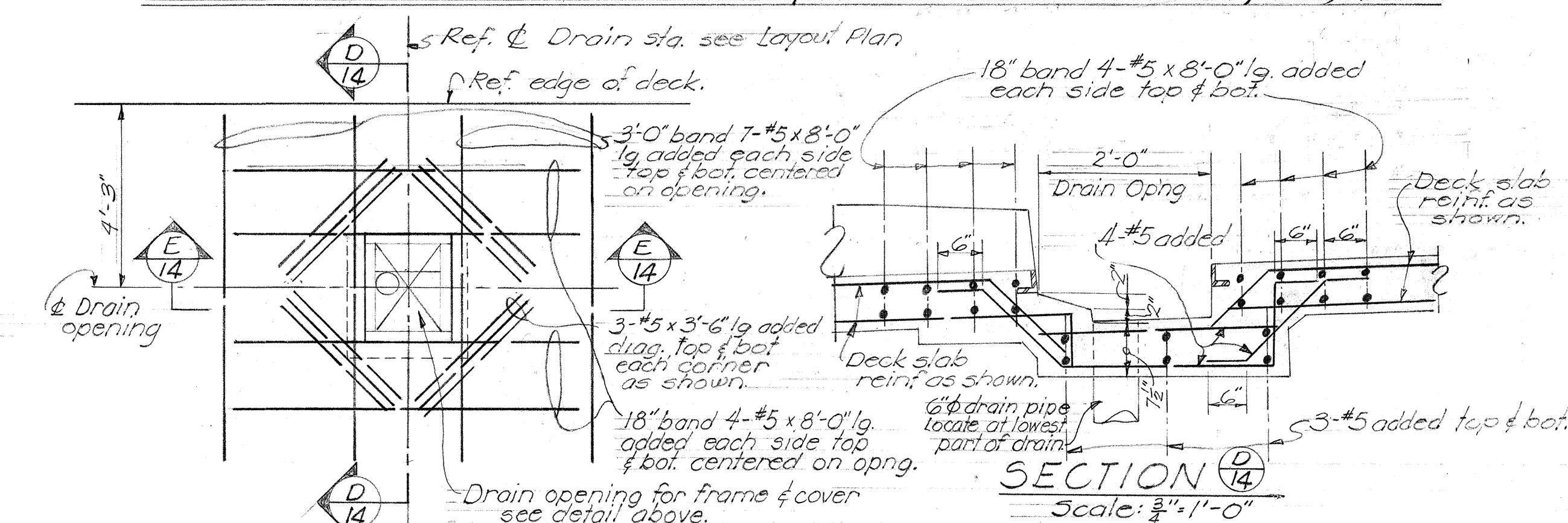
TOP PLAN ~ FRAME & GRATING



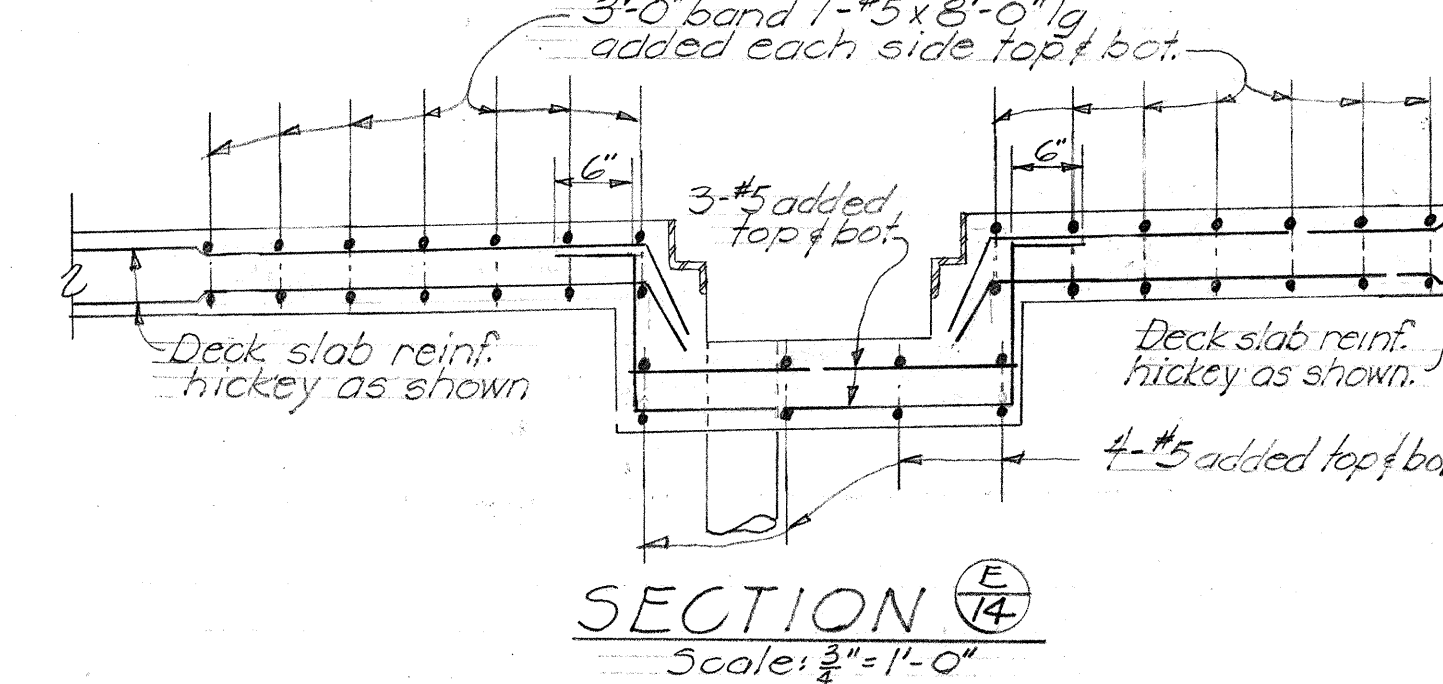
SECTION B-B

SECTION C-C

TYPICAL DETAIL ~ FRAME & COVER ~ DRAIN #1, #2, & #3



PLAN ~ ADDED REINF. AT DRAIN OPENING



SECTION D-D

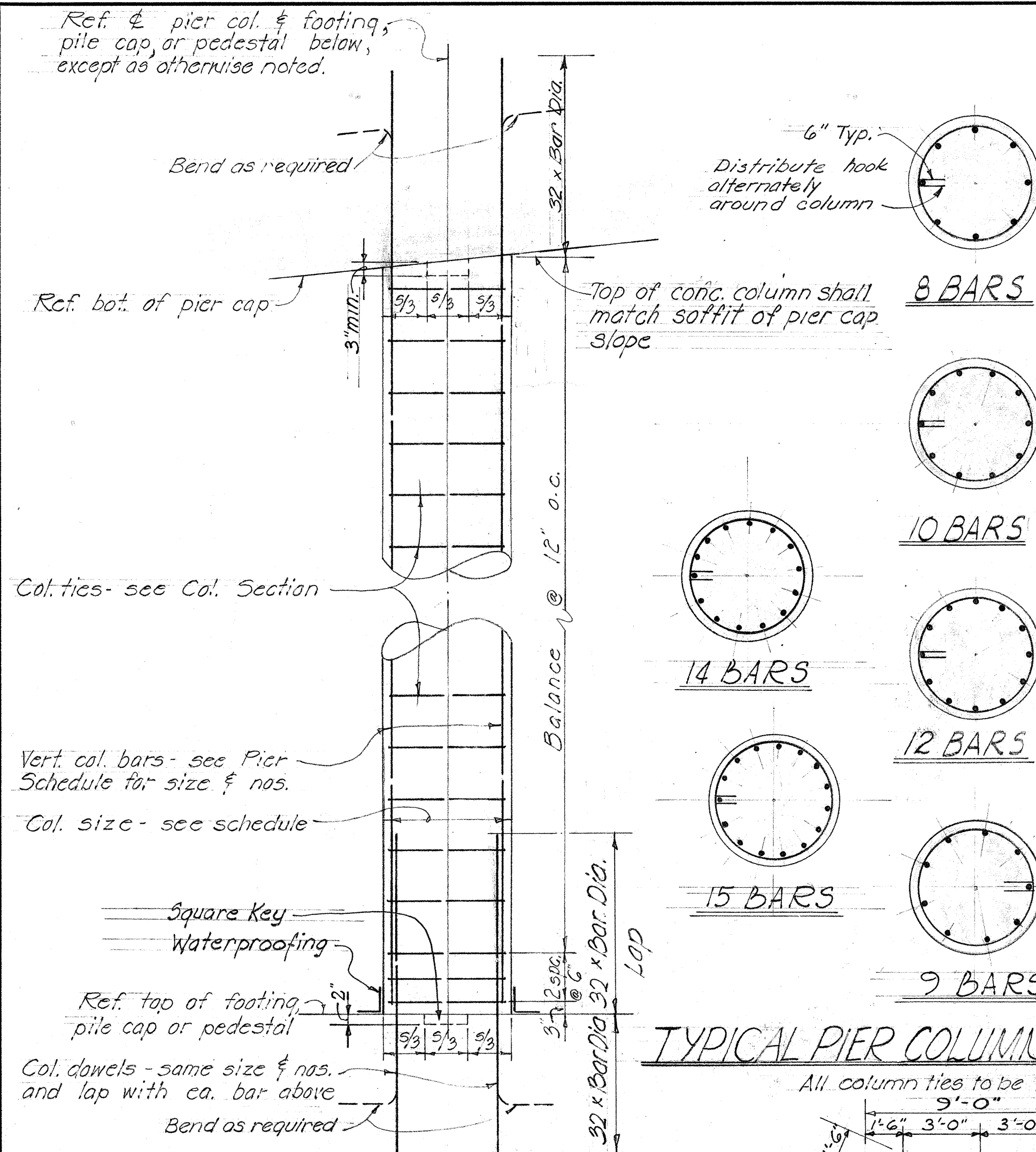
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**AIEA INTERCHANGE
STRUCTURE No. 2**

MISCELLANEOUS DETAILS
I.B. # Sta. 109+59.58 to I.B. # Sta. 119+87.60
Kamehameha Hwy. Proj. No. F-090-1(10)

SHEET No. 14 OF 15 SHEETS

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



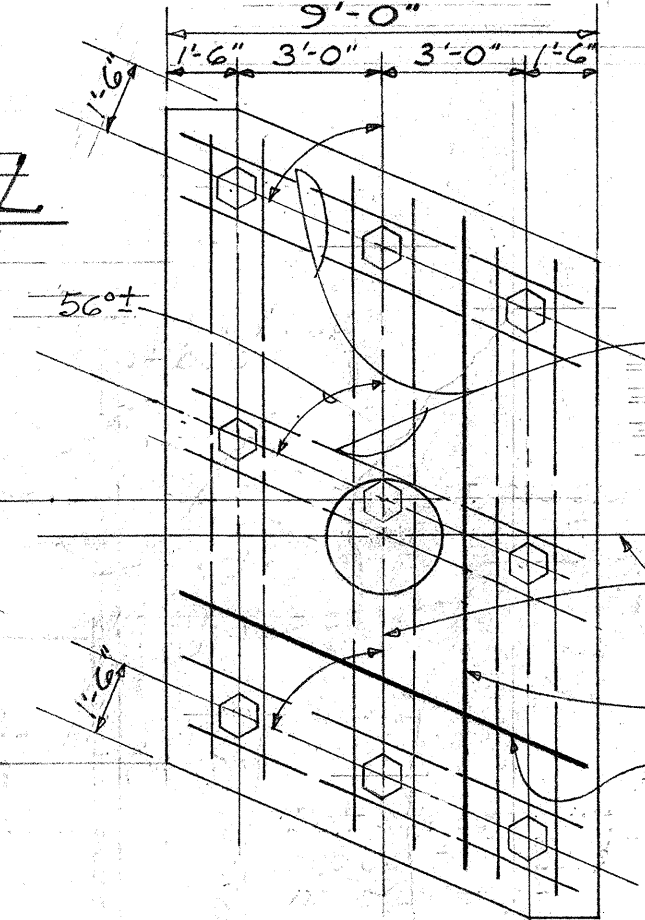
TYPICAL PIER COLUMN SECTIONS

All column ties to be #4 bars.

SHOWING PILE TIE ARRANGEMENT

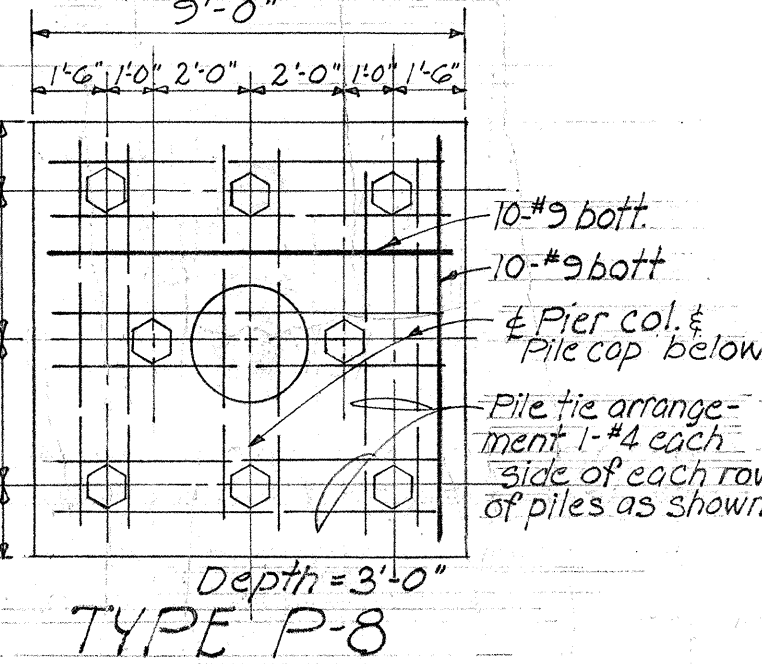
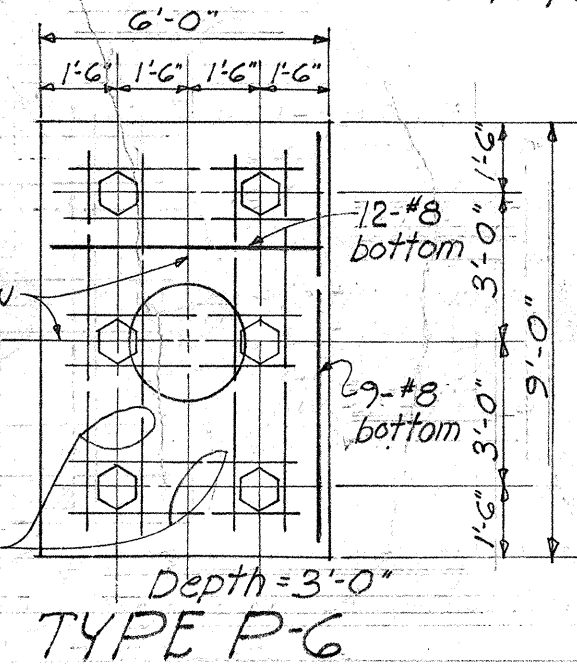
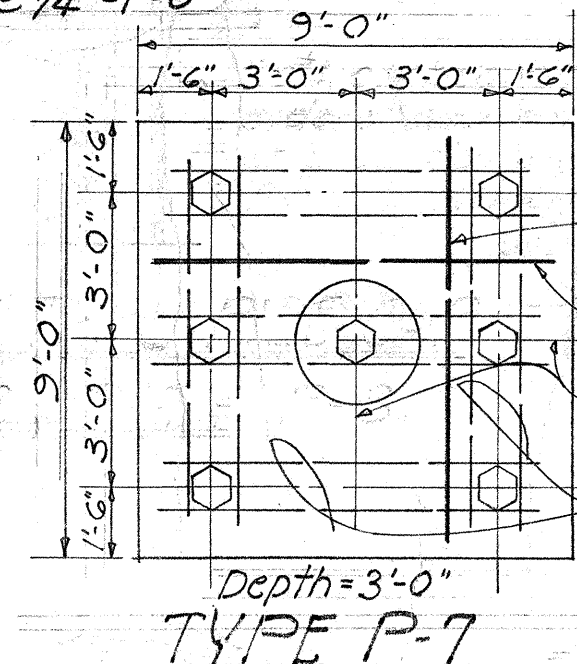
SECTION 15

Scale 3/8"=1'-0"



SHOWING BOTTOM STEEL SHOWING TOP STEEL COMBINED COLS. 9 & 10 PILE CAP DETAIL

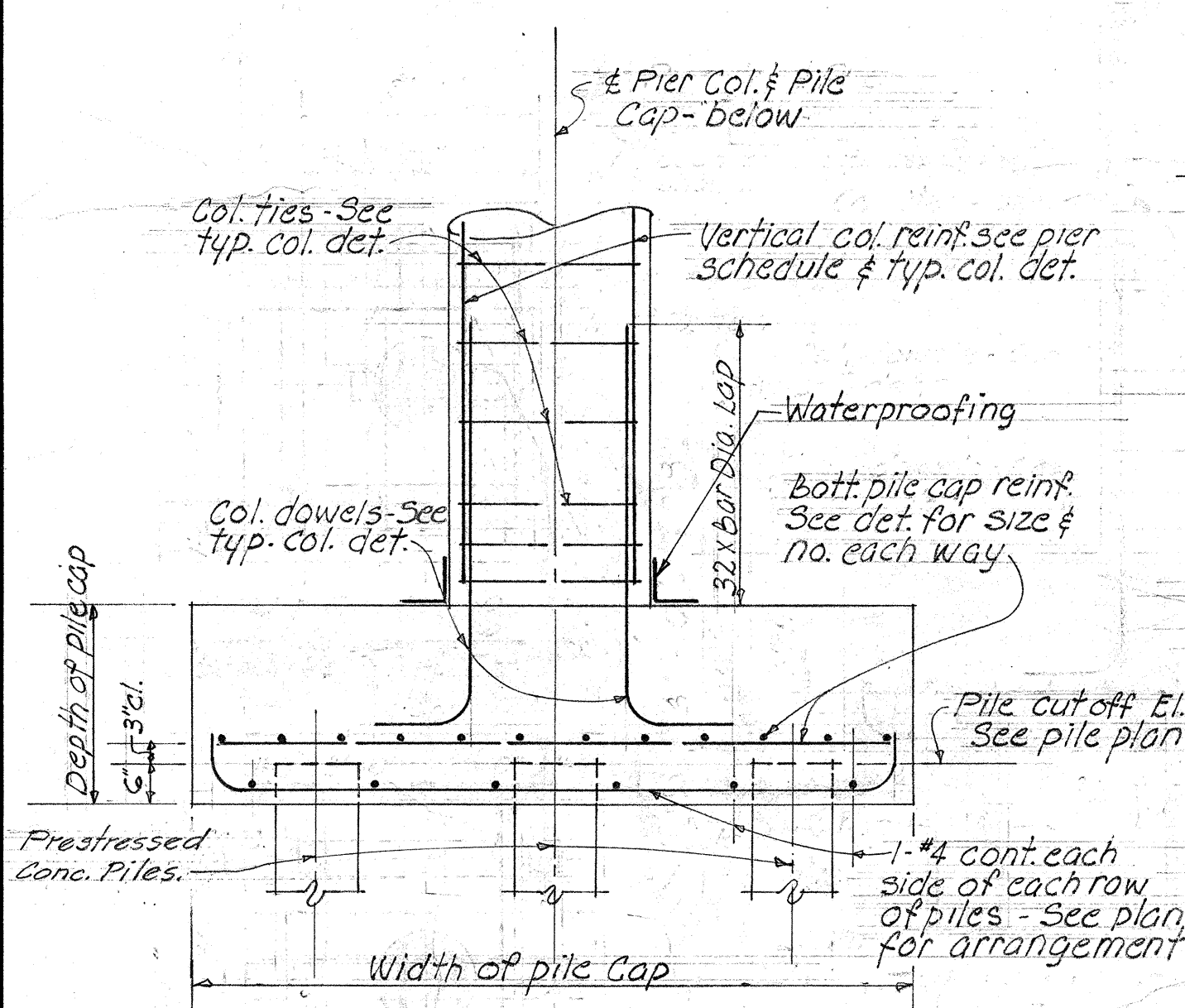
Scale 1/8"=1'-0"



PLAN - TYPICAL PILE CAP DETAIL

Scale 1/4"=1'-0"

TYPICAL PIER COLUMN DETAIL



TYPICAL PIER COLUMN FOUNDATION DETAIL

GENERAL NOTES

Specifications: AASHTO

Standard specifications for Highway Bridges (8th Edition) with subsequent additions & modifications

Design Loads:

Design Stresses:

See AASHTO specifications except otherwise noted.

Materials:

Neoprene pads are incidental to structural steel girders and will not be paid for separately.

Concrete:

- See Special Provision for admixture.
- All concrete shall be class A-1 except as otherwise indicated on column schedule Sht. #22.

- Cover for reinforcing bars shall be as follows unless noted otherwise on plans.

1 1/2" for slabs, stirrups on sides of beams, & walls not exposed to ground.

2" for formed walls exposed to ground.

2 1/2" for main reinforcing of beams.

3" for footings.

- Reinforcing bars shall be detailed in accordance with ACI Manual of Standard Practice for Detailing Reinforced Concrete Highway Structures unless otherwise noted.

- Reinforcing bars shall be securely tied at all intersections & splices & shall be held in place during pouring to maintain their proper location as shown on plans.

Structural Steel - See Sht. #23

Construction Methods:

General - See Standard Specifications.

Welding:

All welding shall conform to the latest specifications for Welded Highway & Railway Bridges of the American Welding Society.

Forms:

Forms for all exposed surfaces of structures shall be plywood except forms for round columns.

Finish:

- For concrete finish - See Special Provisions. Concrete seats to be poured monolithically with piers or abutment structures and receive a hard trowel finish. Seats shall be finished level and true to grade.

- Unless otherwise noted, all exposed corners shall be chamfered 3/4".

Painting:

See Special Provisions.

Symbols:

(N) Denotes pier column number.

Backfill behind Abutment #2 shall be complete in place before pouring concrete for the superstructure.

Important!!! The Contractor shall verify the location of all existing utility lines and notify the respective owners before commencing with the driving of the piles.

For additional details not covered by detailed drawings refer to Standard Drawings 35, 36, 37, & 38.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AIEA INTERCHANGE
STRUCTURE NO. 2

TYPICAL DETAIL and GENERAL NOTES
16+1/2 Sta. 109+59.58 to 18+ Sta. 119+87.60
Kamehameha Hwy. Proj. No. F-070-1(10)

SHEET No. 15 OF 15 SHEETS