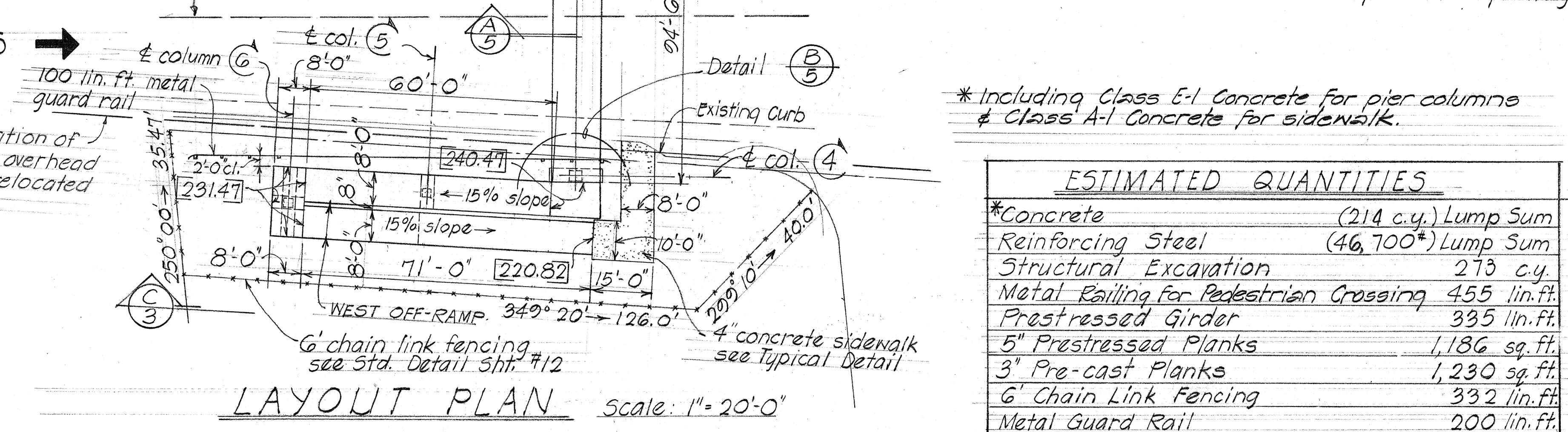
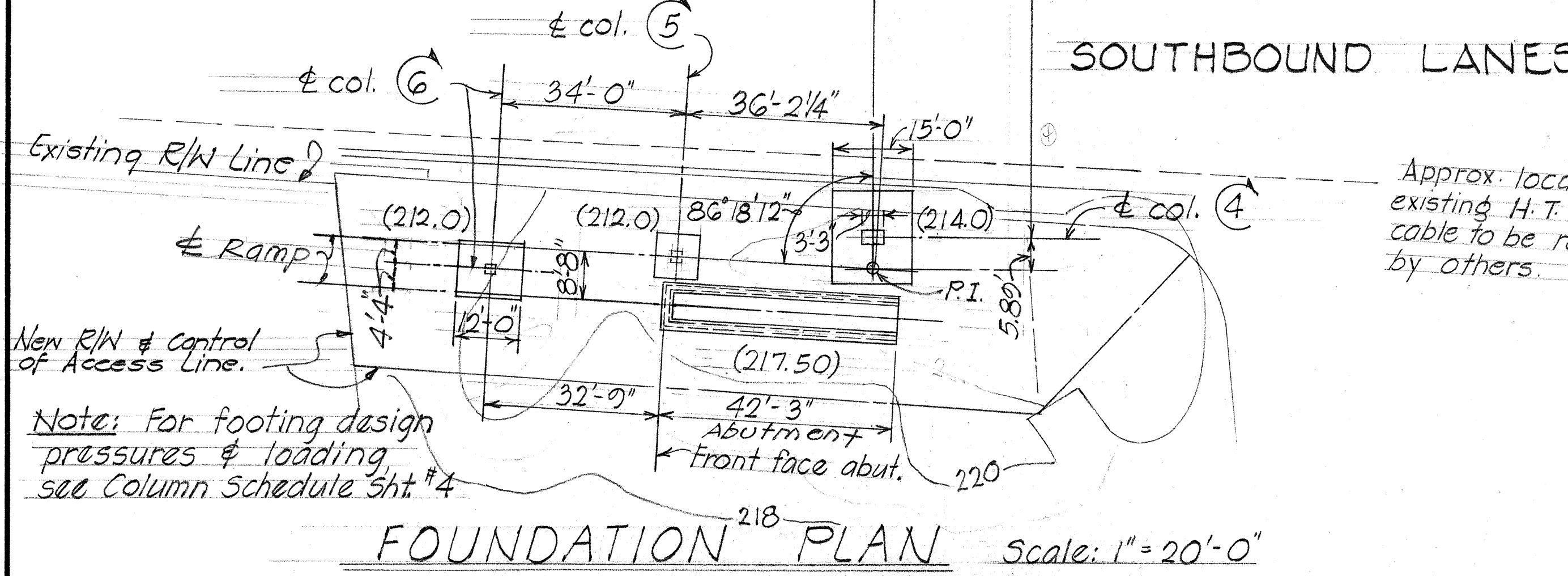
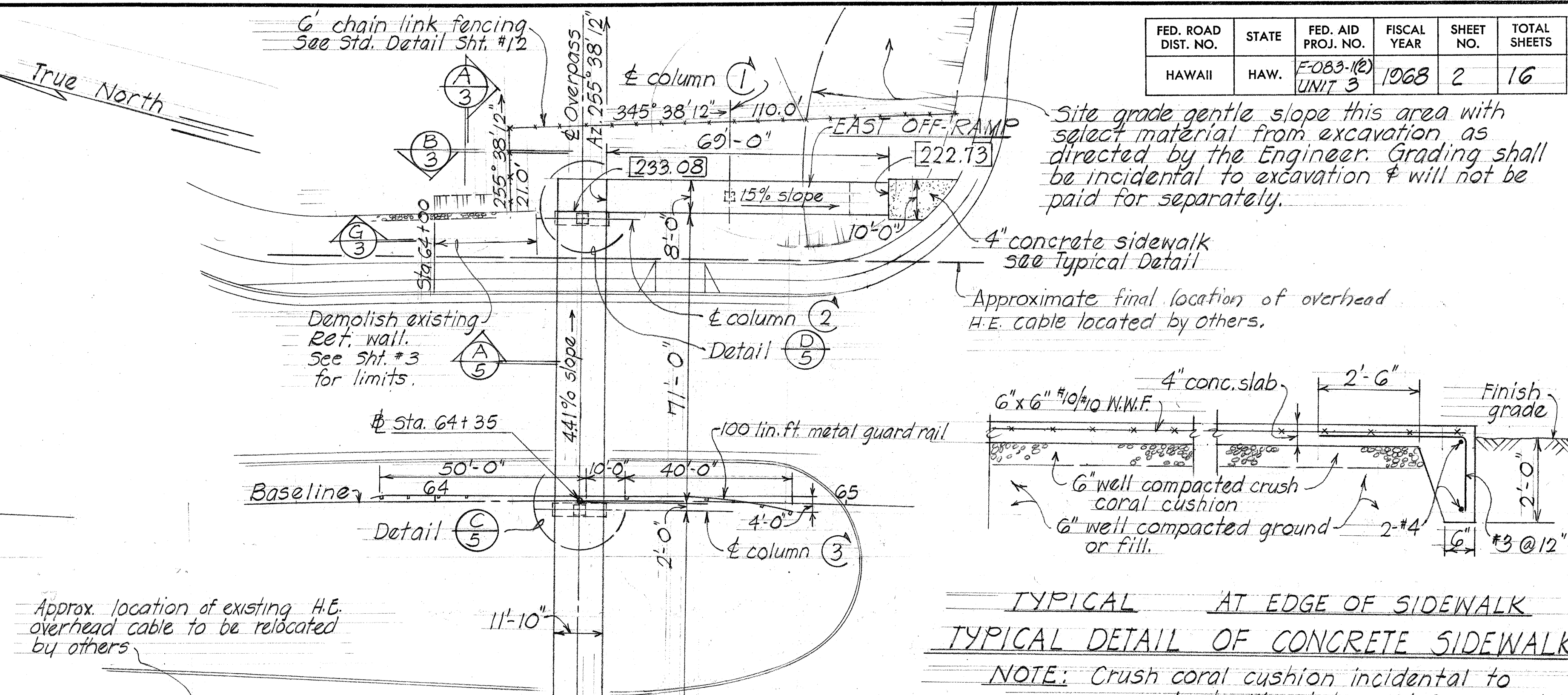
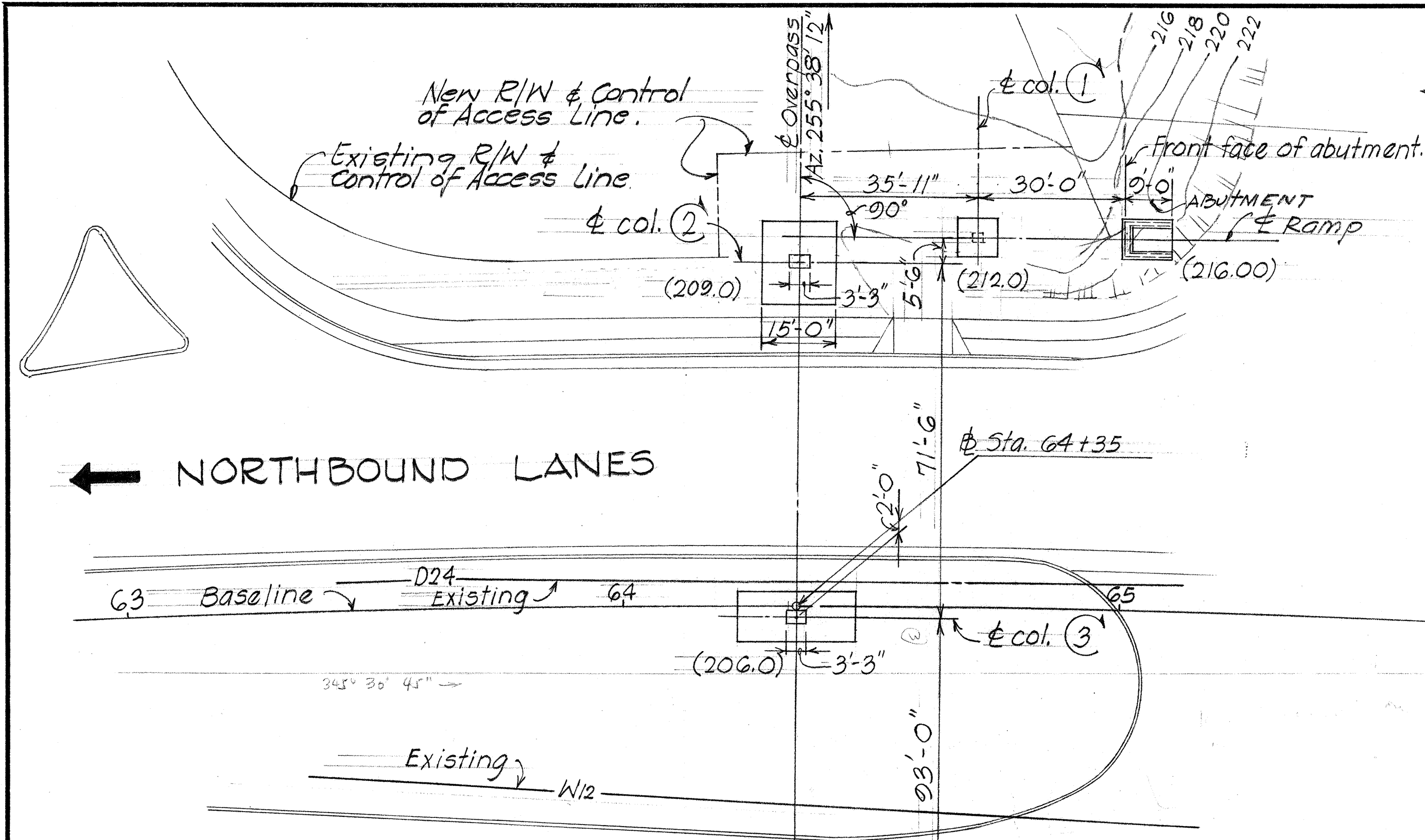


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(2) UNIT 3	1968	2	16



GENERAL NOTES

SPECIFICATIONS: AASHTO
Standard Specifications for Highway Bridges (9th Edition) with subsequent additions & modifications.

MATERIALS
CONCRETE: All concrete shall be Class A-1 except as otherwise noted. Concrete for prestressed girders & planks, see Special Provisions and as noted under Design Stresses.
See Special Provisions for admixture in concrete.
Class E-1 Concrete for all columns. See Pier Column schedule.

ELASTOMERIC BEARING PAD: To be incidental to prestressed girders and will not be paid for separately.
WELDED WIRE FABRIC: 6" x 6" #4/10 W.W.F. to be incidental to concrete & will not be paid for separately.
Top surfaces of deck, ramps and approach ramps shall have a rough wearing surface produced by sprinkling 1/4" #16 abrasive aggregate on fresh concrete and finishing with a wood trowel. This item to be incidental to class A-1 concrete and will not be paid for separately.

CONSTRUCTION METHODS
GENERAL: See Standard Specifications & Special Provisions.
WELDING: All welding shall conform to the latest Specifications for Welding Highway & Railway Bridges. Design, Construction & Repair of the American Welding Society.
Prestressed girders may be fabricated at the project site provided that the Contractor clears the shoulder area after each days work. All railings to be galvanized after fabrication. See Specifications and special provisions for galvanizing, refinishing of damaged galvanizing and finishing of welds.
Contractor shall use caution when excavating and working around existing utility lines. Any damage to utility lines shall be the Contractors responsibility & expense.
Contractor shall submit shop drawings for prestressed girders, pre-cast planks, prestressed planks, steel bearings and railings for approval by the Engineer before fabrication.

DESIGN DATA
LOADING: 85 psf. Live Load

ALLOWABLE STRESSES
1. R.C. Beams, Slabs, Columns & Footings.
See AASHTO specifications except as otherwise noted and see special provisions.
(Class A-1) (Class E-1)
fc = 3,000 psi 4,500 psi
fc = 1,200 psi 1,800 psi
n = 10 8
fs = 20,000 psi tension
2. Prestressed Girders & Prestressed Planks.
fc = 5,500 psi 1/2" dia. 7 wire strands
fsi = 4,000 psi tensioning load = 25,200 lbs per strand.
Design load = 20,160 lbs. per strand.
Forms must be removed and the beam inspected before the strands are cut.

TYPICAL AT EDGE OF SIDEWALK
TYPICAL DETAIL OF CONCRETE SIDEWALK
NOTE: Crush coral cushion incidental to concrete & will not be paid for separately.

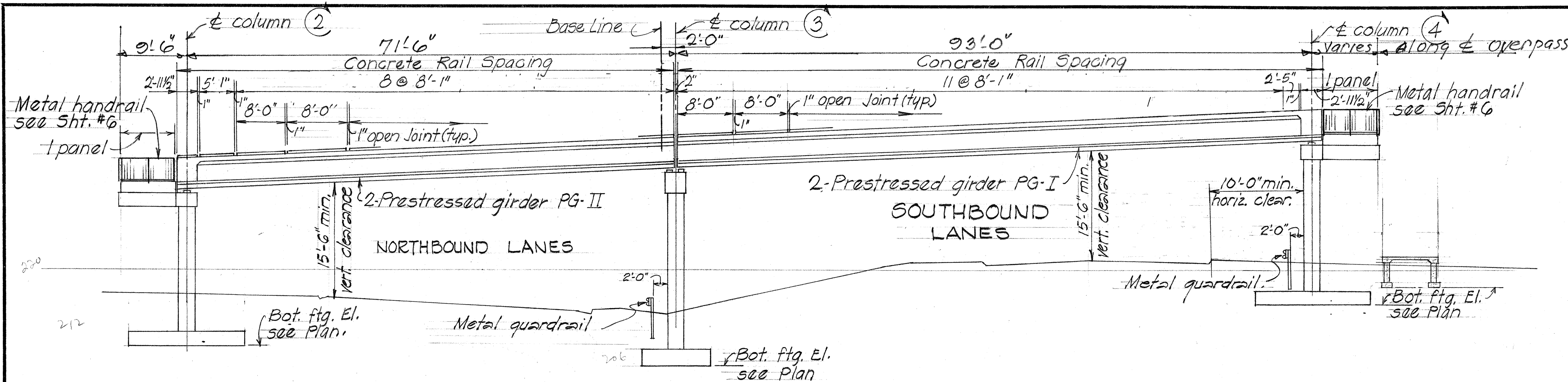
* Including Class E-1 Concrete for pier columns & Class A-1 Concrete for sidewalk.

ESTIMATED QUANTITIES	
*Concrete	(214 c.y.) Lump Sum
Reinforcing Steel	(46,700*) Lump Sum
Structural Excavation	273 c.y.
Metal Railing for Pedestrian Crossing	455 lin.ft.
Prestressed Girder	335 lin.ft.
5" Prestressed Planks	1,186 sq.ft.
3" Pre-cast Planks	1,230 sq.ft.
6' Chain Link Fencing	332 lin.ft.
Metal Guard Rail	200 lin.ft.
Removal of Existing Wall	Lump Sum

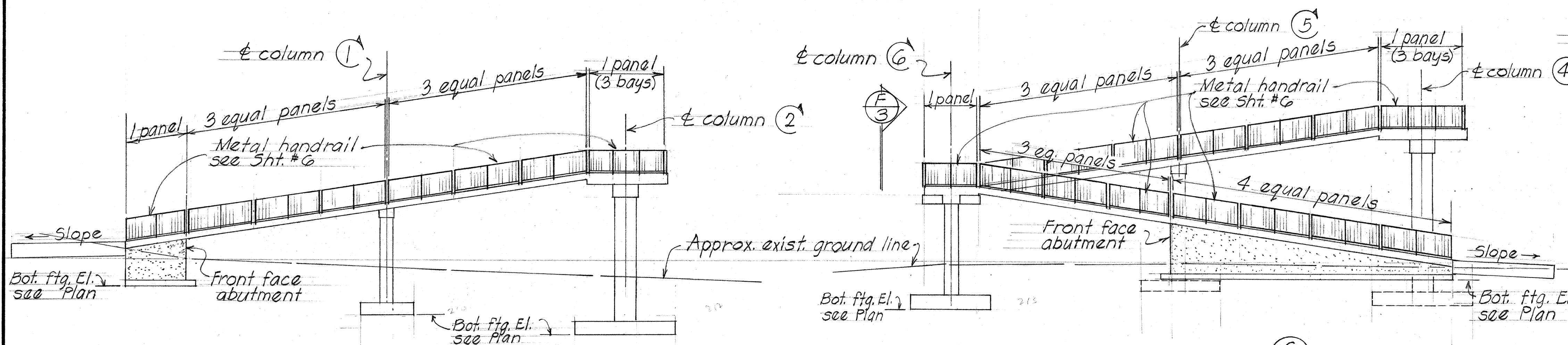
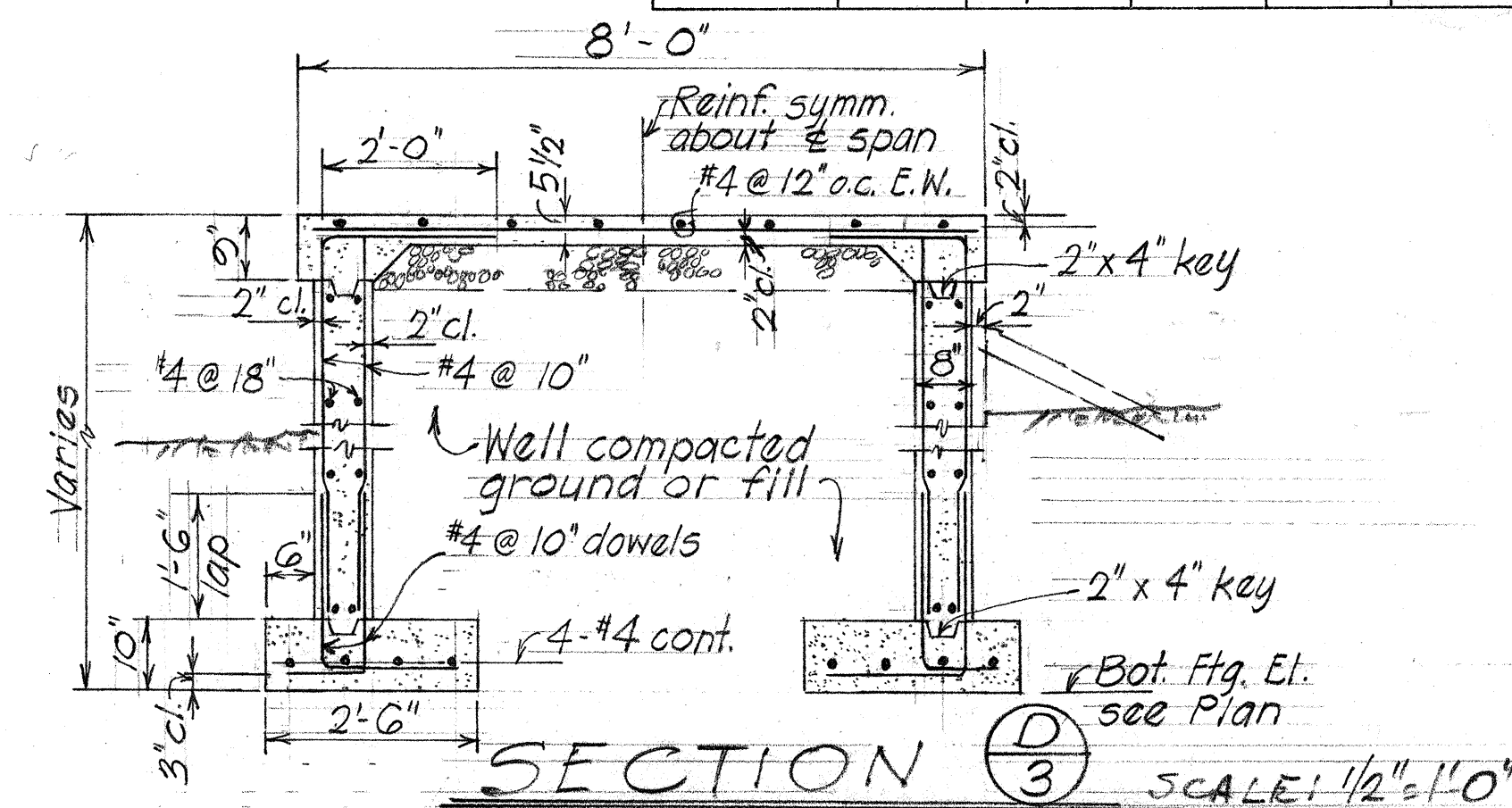
SYMBOLS & ABBREVIATIONS
(A) Section designation.
(3) Sht. no. detail is drawn on.
(2) Pier column no.
(00.0) Denotes bottom footing elevation.
(00.2) Denotes top finish deck slab elevation.
W.W.F. Welded wire fabric
Baseline
P.I. Point of intersection

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PEDESTRIAN OVERPASS
OVER KAMEHAMEHA HIGHWAY
AT KANEIHE ELEMENTARY SCHOOL
PROJECT No. F-083-1(2) UNIT 3
MAY, 1968
SHEET No. 2 OF 16 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(2) UNIT 3	1968	3	16

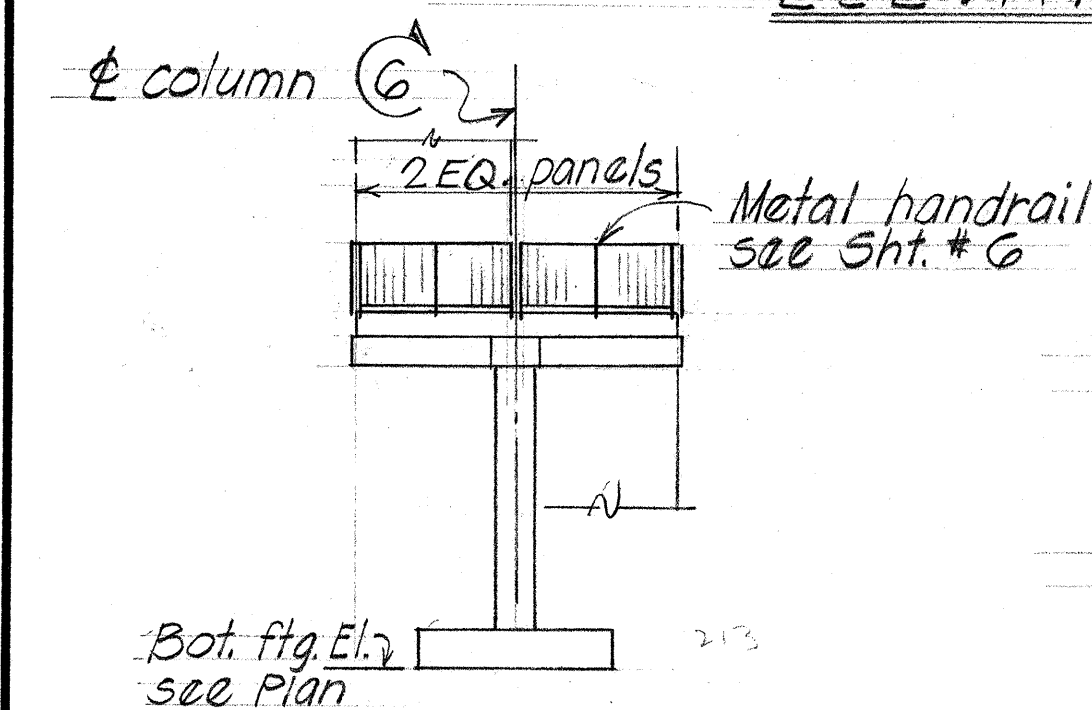
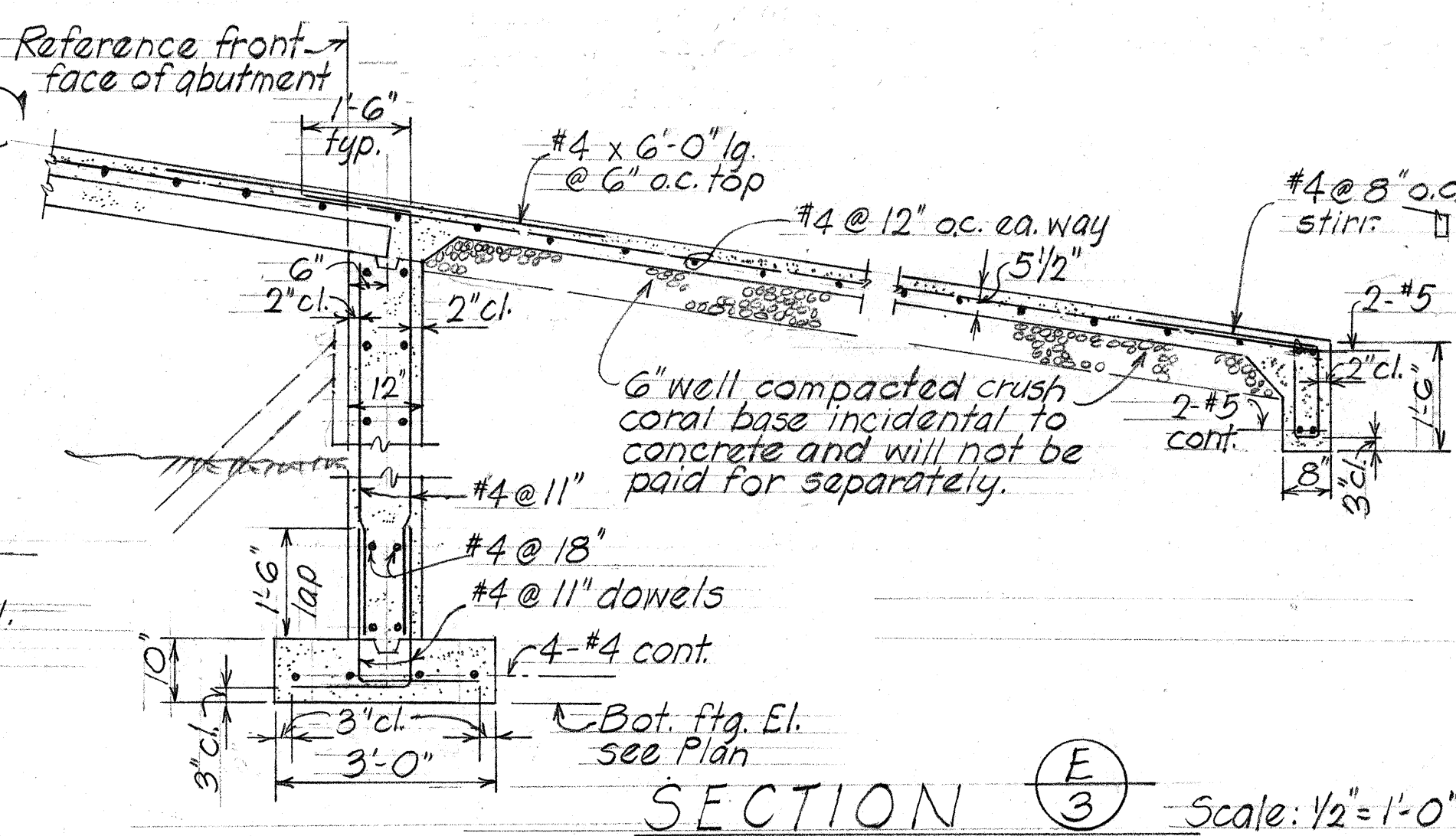


ELEVATION (A) Scale: 1"=10'-0"



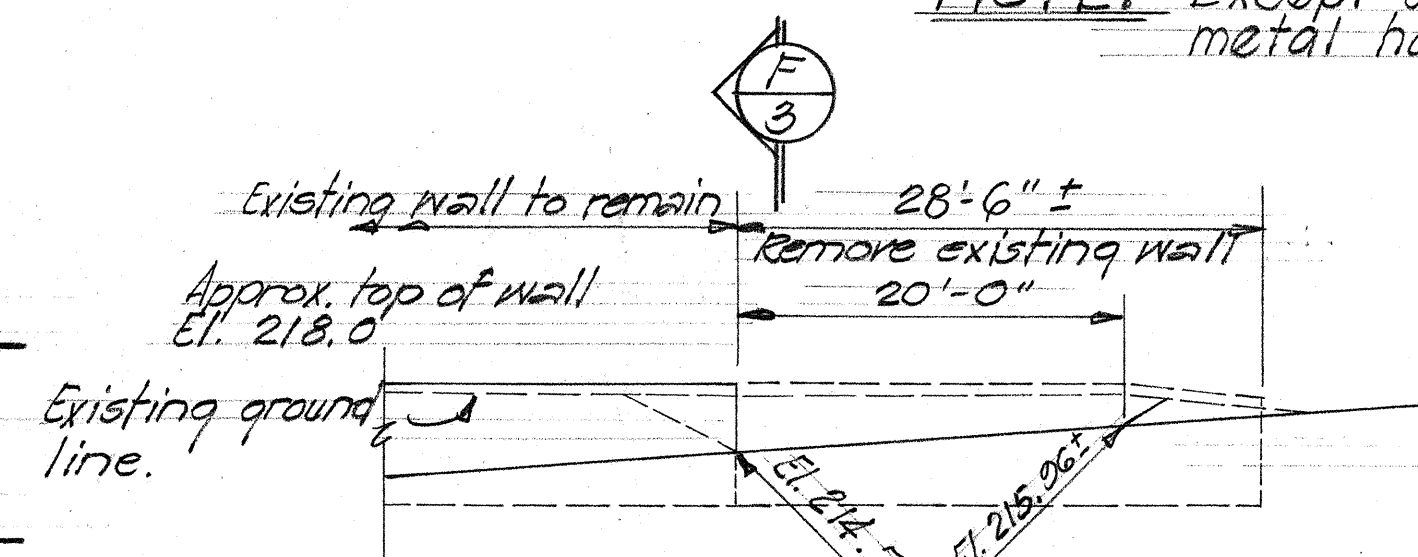
ELEVATION (B) Scale: 1"=10'-0"

ELEVATION (C) Scale: 1"=10'-0"



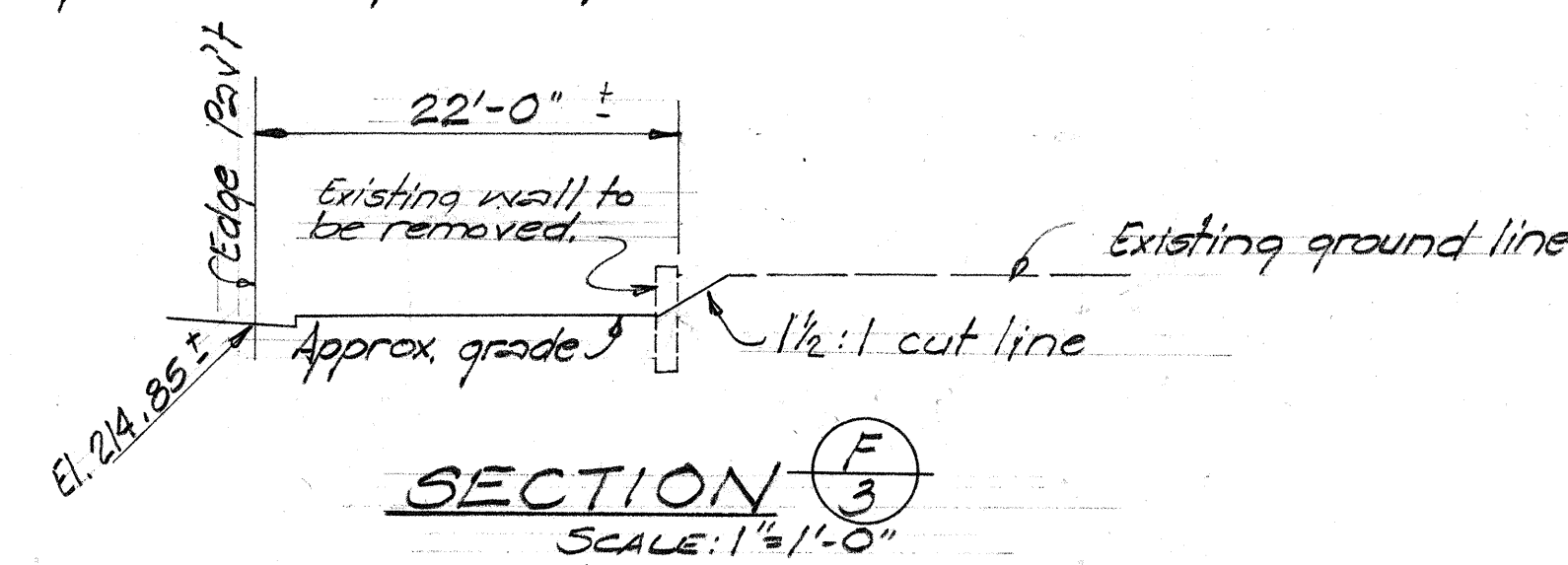
ELEVATION (F) Scale: 1"=10'-0"

NOTE: Except as otherwise noted each panel of metal handrail to be 2 bay panels.

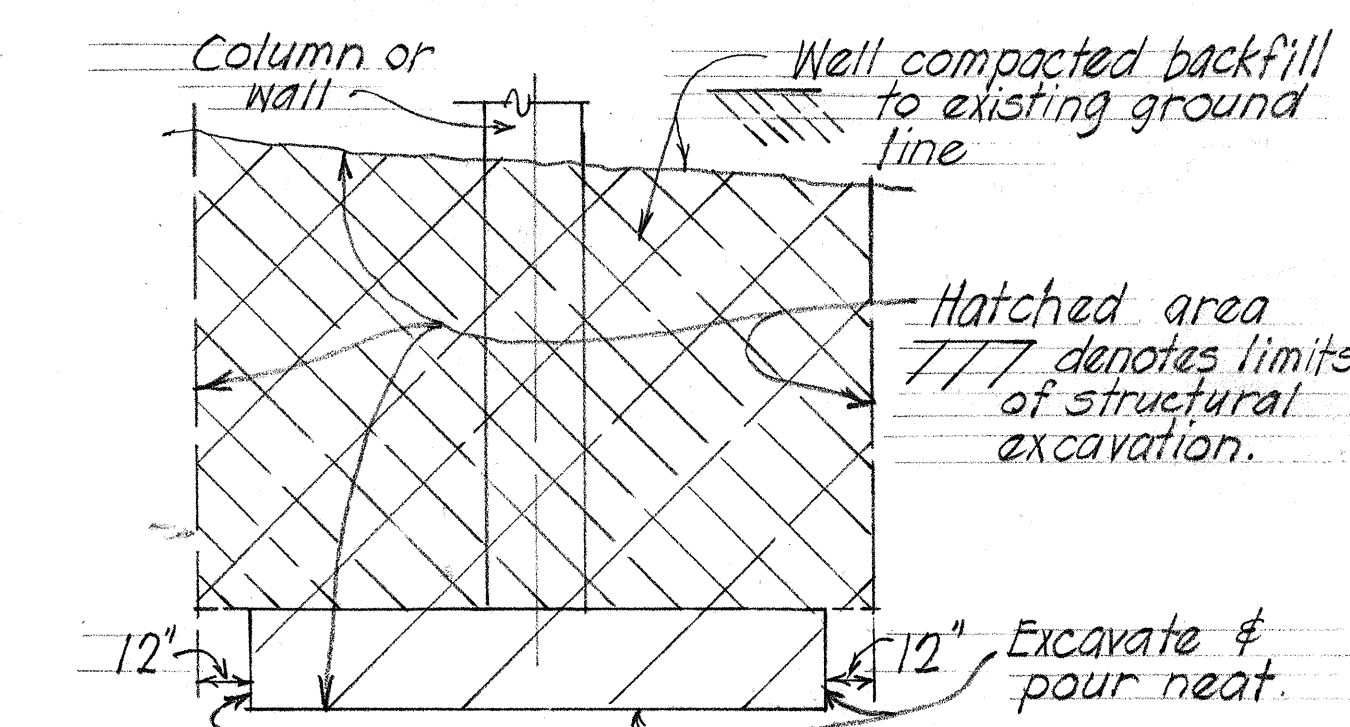


ELEVATION (G) Scale: 1"=1'-0"

NOTE 11: Excavation at wall to be incidental to structural excavation and will not be paid for separately.



SECTION (F) Scale: 1"=1'-0"

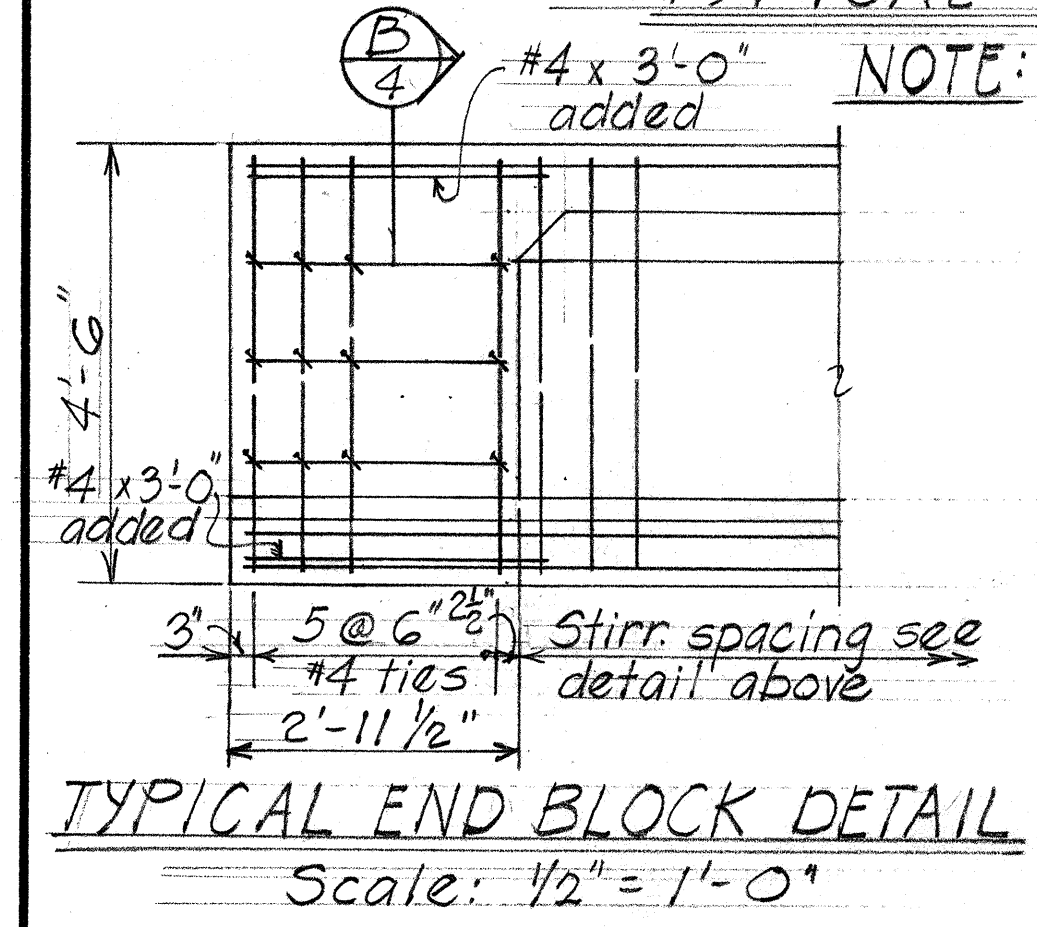
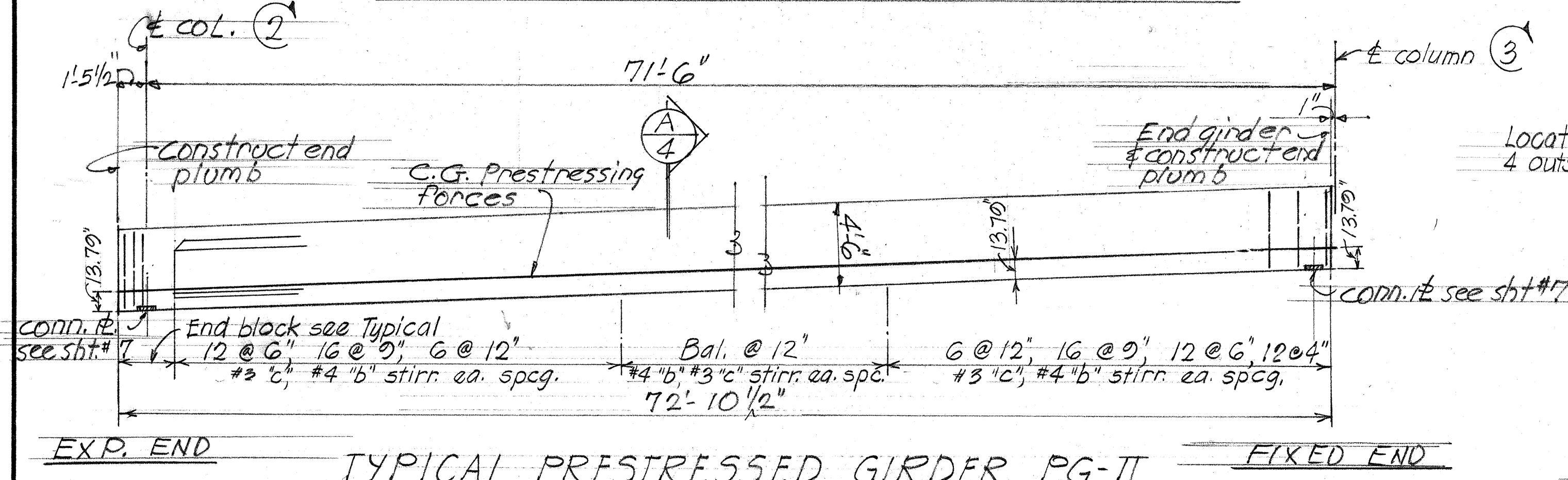
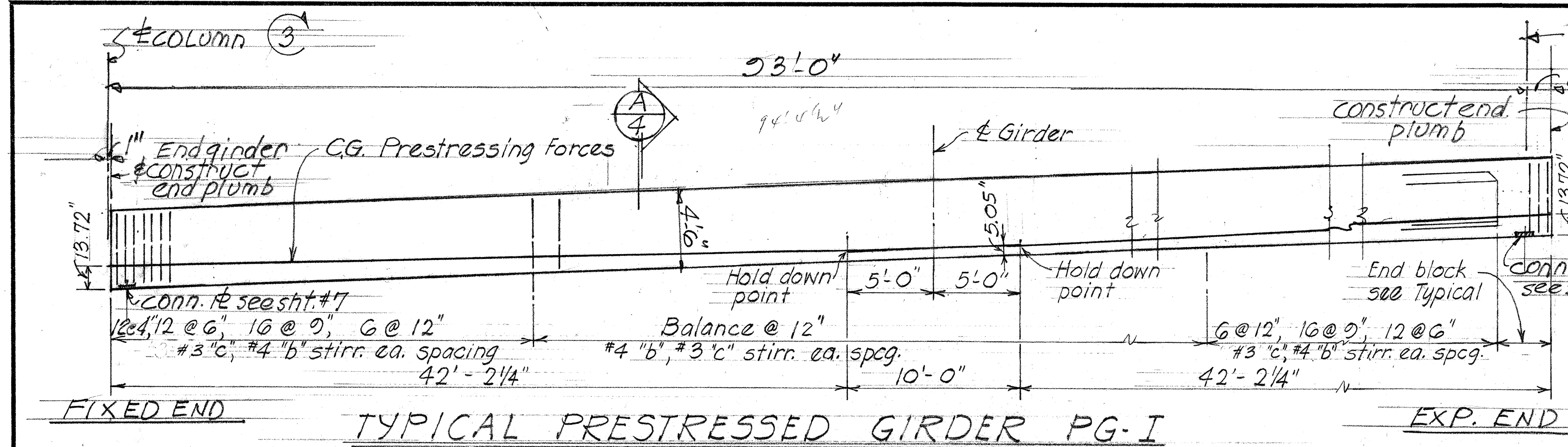


TYPICAL LIMITS OF STRUCTURAL EXCAVATION PAYLINE & BACKFILL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PEDESTRIAN OVERPASS
OVER KAMEHAMEHA HIGHWAY
AT KANEOHE ELEMENTARY SCHOOL
PROJECT No. F-083-1(2) UNIT 3
MAY, 1968
SHEET No. 3 OF 16 SHEETS

DATE	
SURVEYED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(2) UNIT 3	1968	4	16

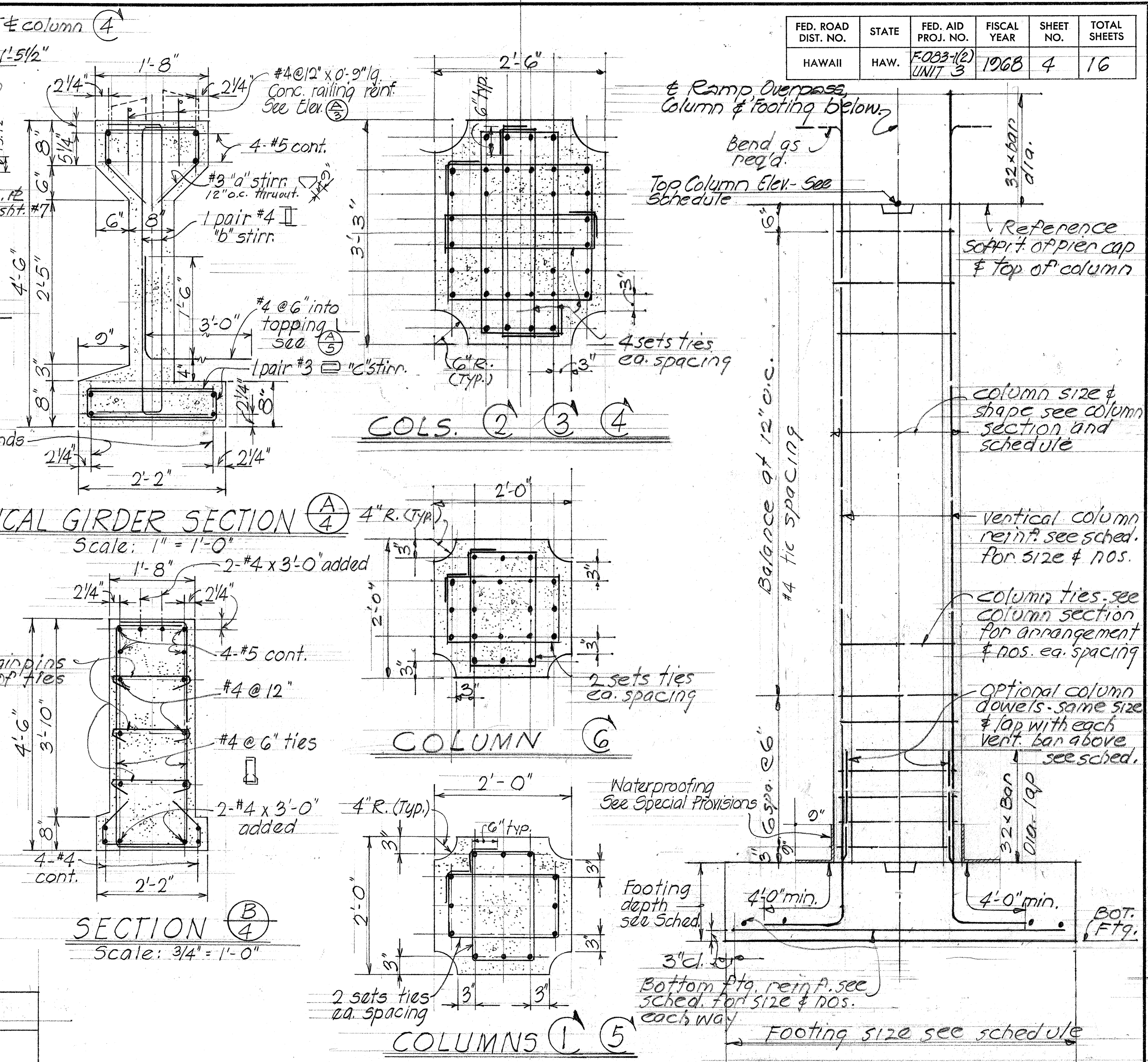


NOTE: Length of girders are horizontal measurements - the Contractor shall determine the actual length of girder.

PRESTRESS GIRDER WORKING FORCE	
GIRDER TYPE	WORKING FORCE P _f
PG-I	606 KIPS
PG-II	485 KIPS

PRESTRESSED GIRDERS:
All reinforcing steel, prestress steel, steel bearing assemblage & anchors are incidental to prestress girders & will not be paid for separately.

PIER COLUMN SCHEDULE						
COLUMN NO.	1	2	3	4	5	6
TOP COLUMN ELEVATION	226.39	229.57	231.68	236.82	233.78	228.80
BOT. PIER CAP						
TOP FTG	Class II Concrete					
DOWELS	12 #11	32 #11	32 #11	32 #11	12 #11	20 #11
FOOTING TYPE	F1	F4	F3	F4	F1	F2
FOOTING PRESSURE			2,500 psf			
GROUP LOADING	VII	I	VII	I	VII	I



FOOTING SCHEDULE				
TYPE	SIZE	DEPTH	BOTTOM REINFORCEMENT	
			SHORT DIRECTION	LONG DIRECTION
F1	8'-0" x 8'-0"	1'-9"	11-#6	11-#6
F2	10'-0" x 12'-0"	1'-9"	16-#8	20-#8
F3	10'-0" x 24'-0"	2'-6"	24-#6	20-#11
F4	15'-0" x 17'-0"	2'-0"	34-#8	20-#11

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

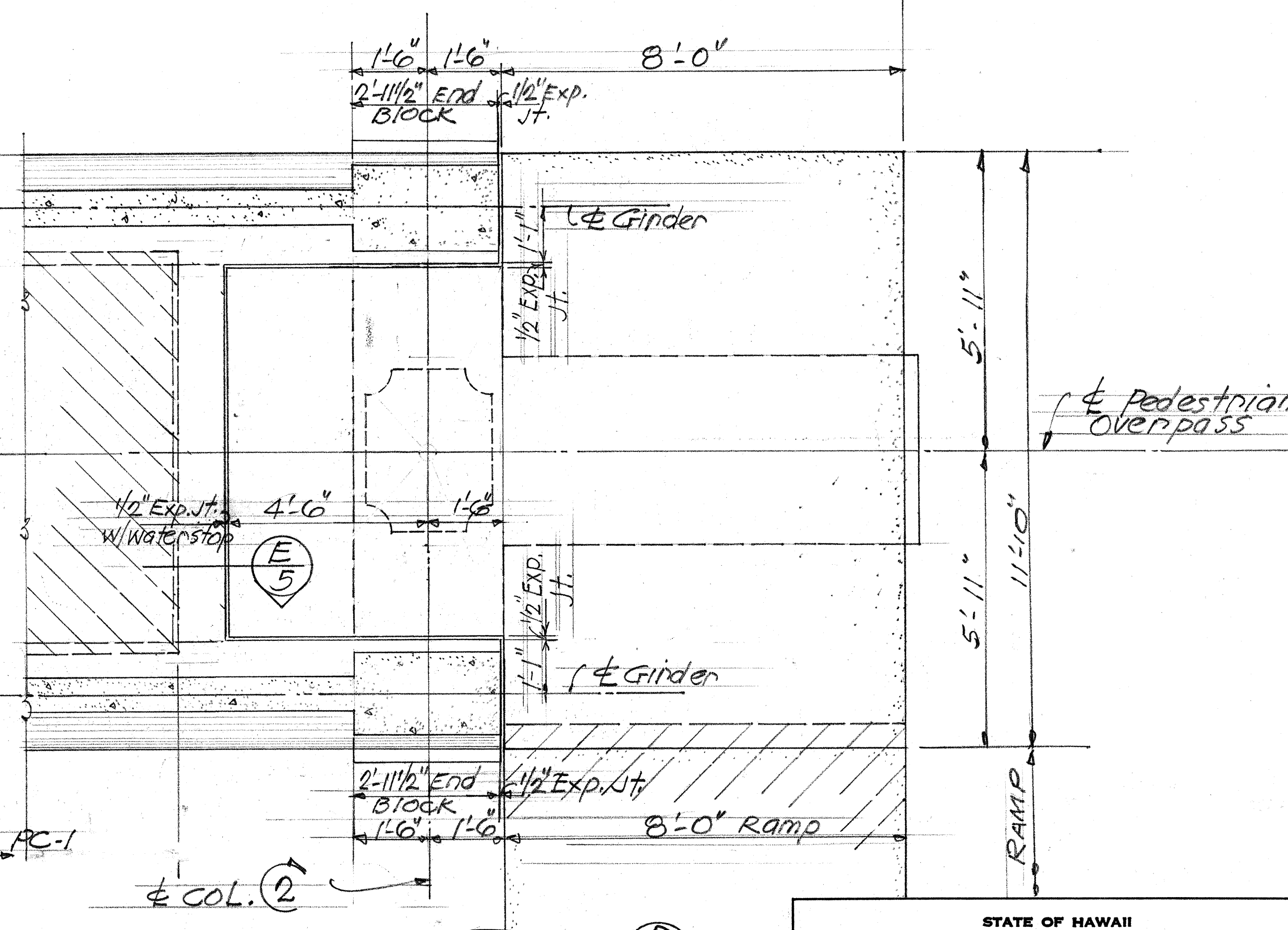
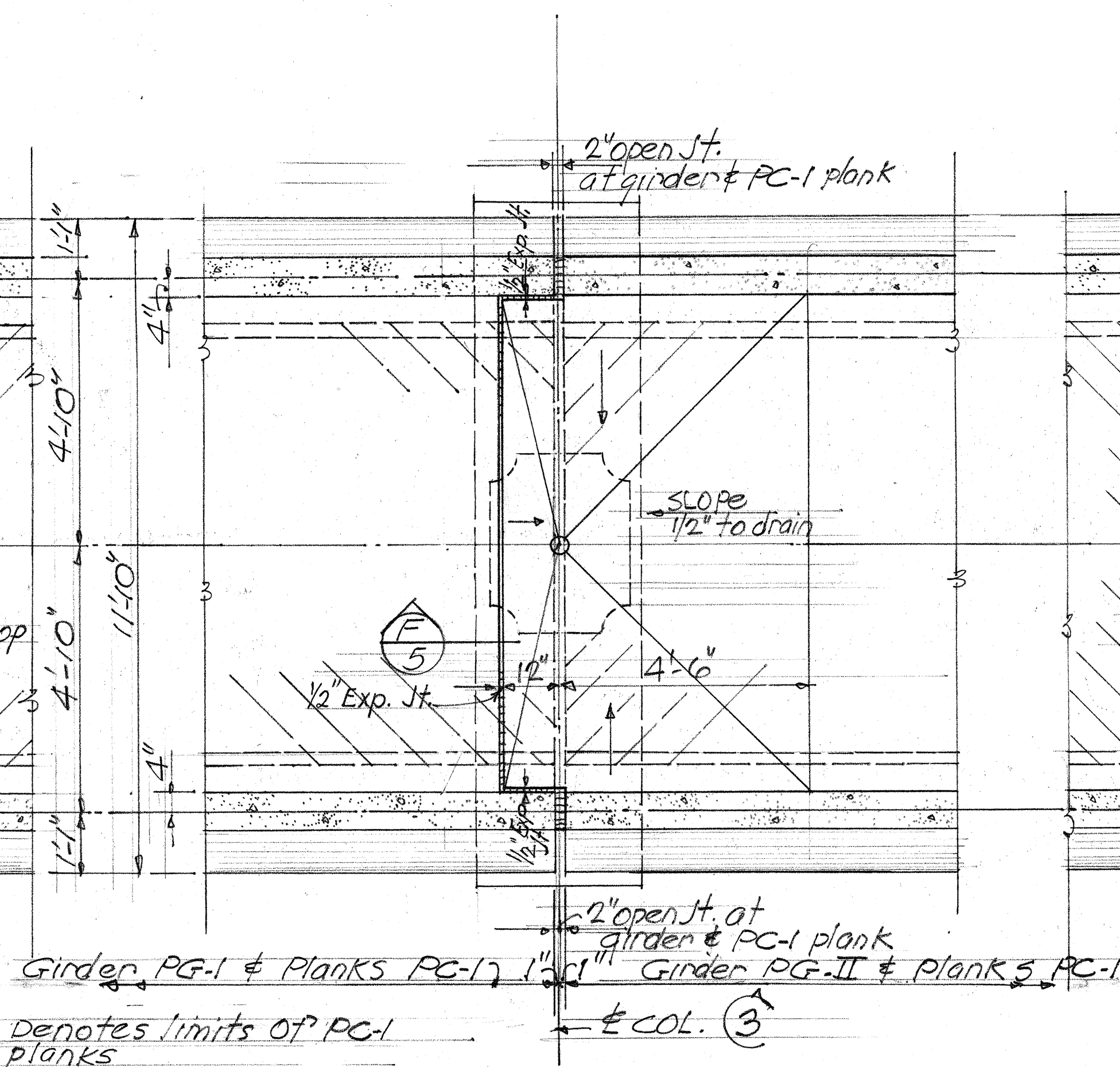
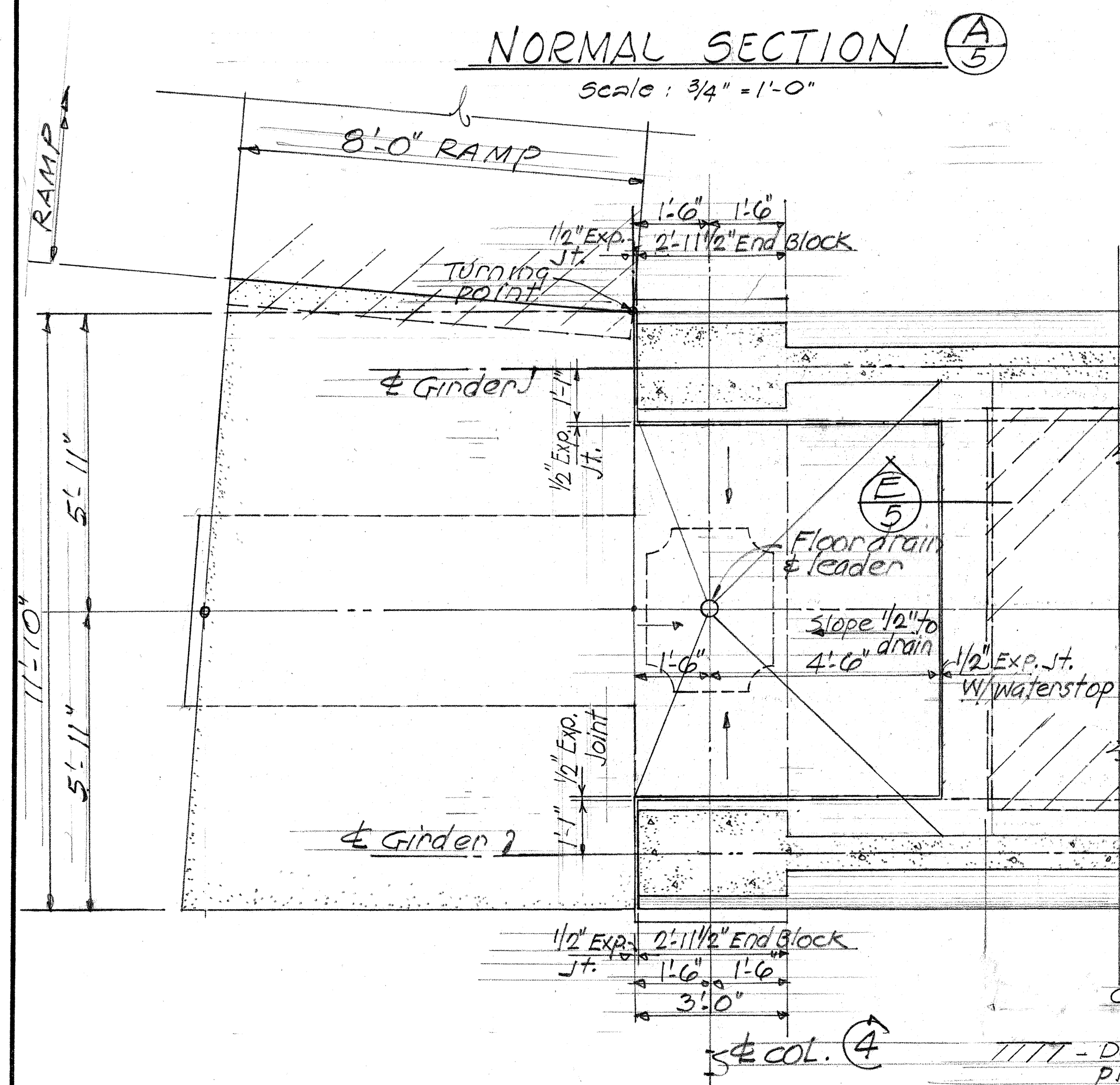
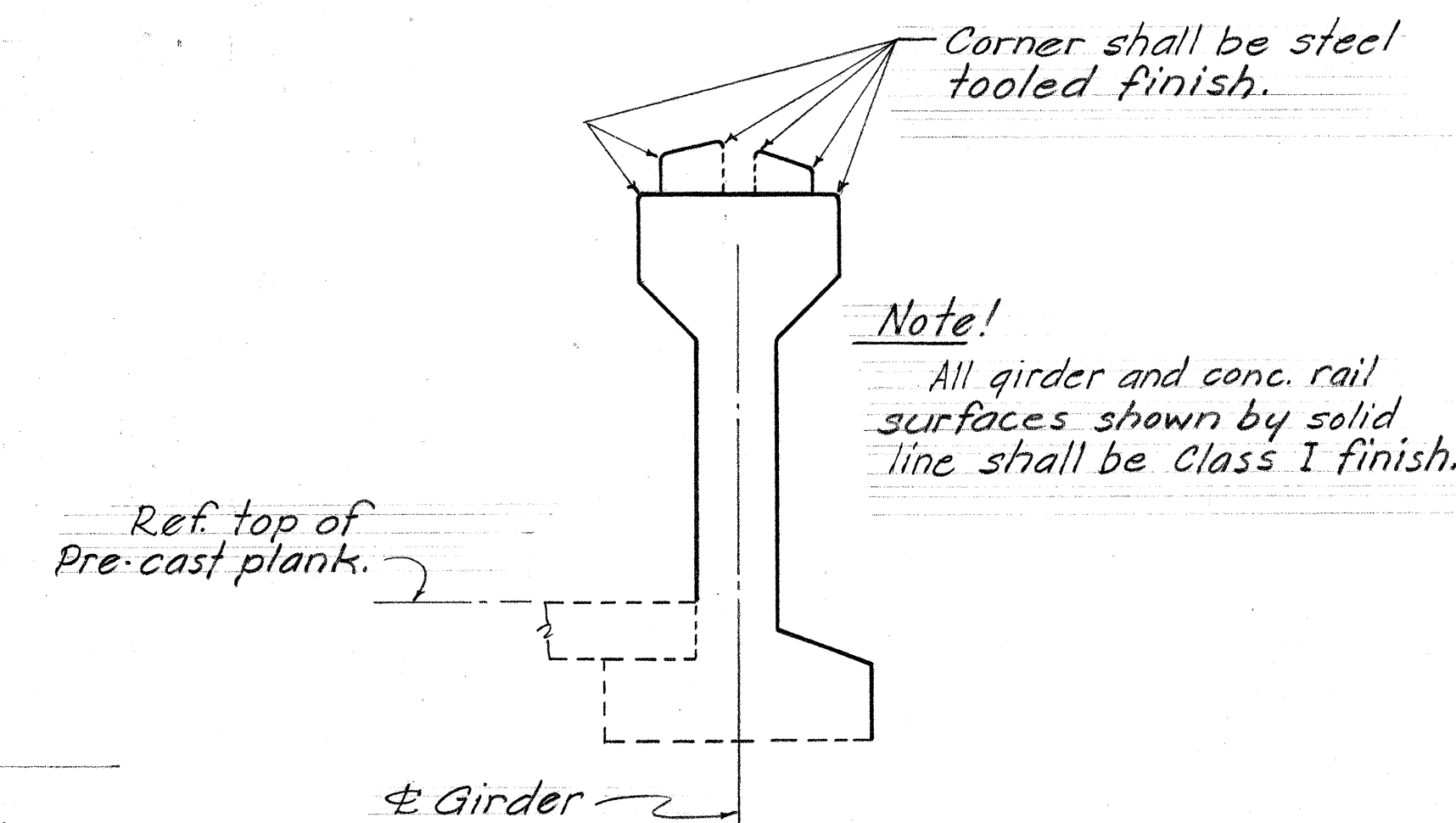
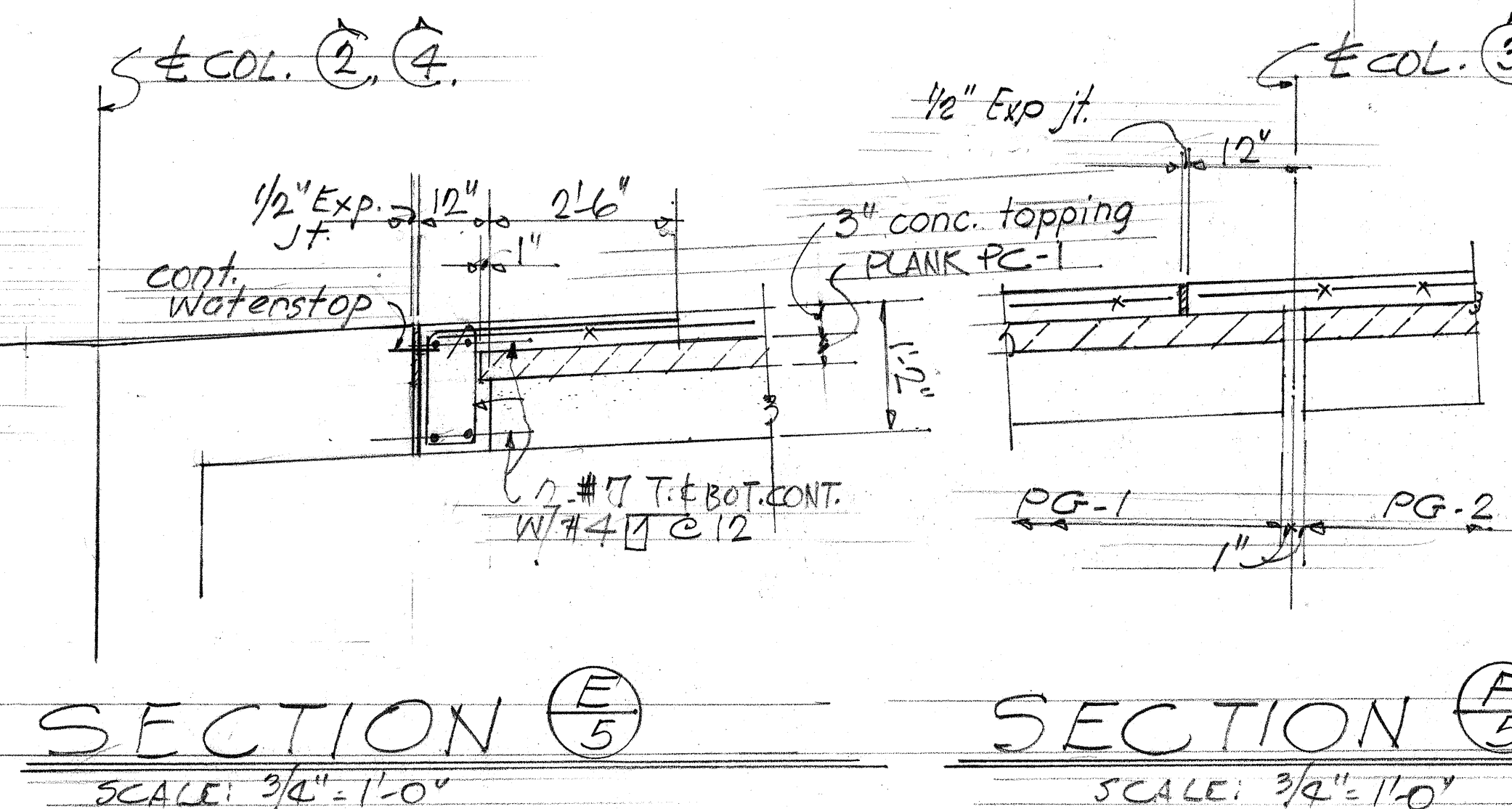
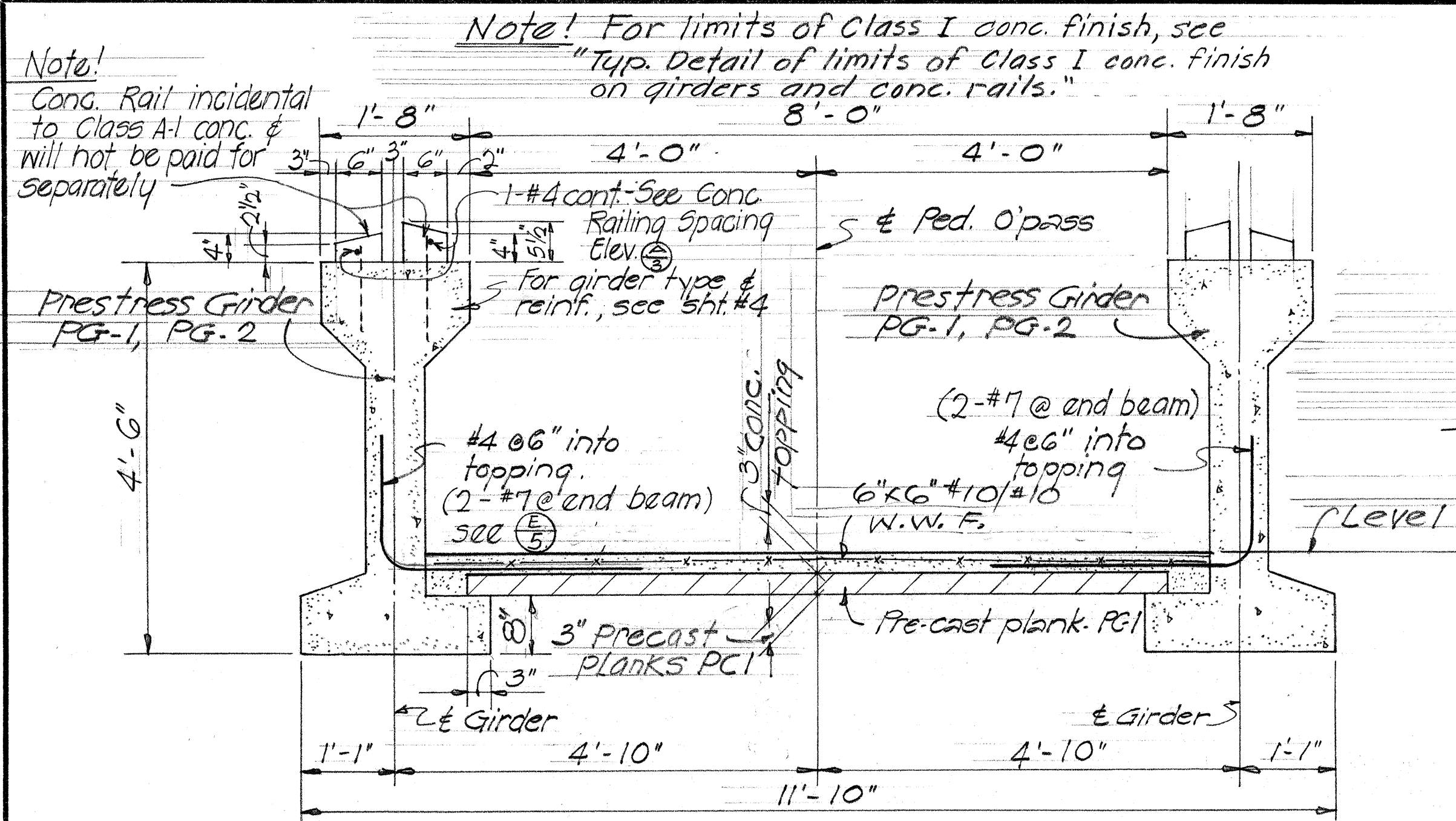
PEDESTRIAN OVERPASS
OVER KAMEHAMEHA HIGHWAY
AT KANEIHE ELEMENTARY SCHOOL

PROJECT No. F-083-1(2) UNIT 3
MAY, 1968

SHEET No. 4 OF 16 SHEETS

DATE
DRAWN BY
CHECKED BY
DESIGNED BY
NOTED BY
QUANTITIES BY
COUNCIL BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(2) UNIT 3	1968	5	16



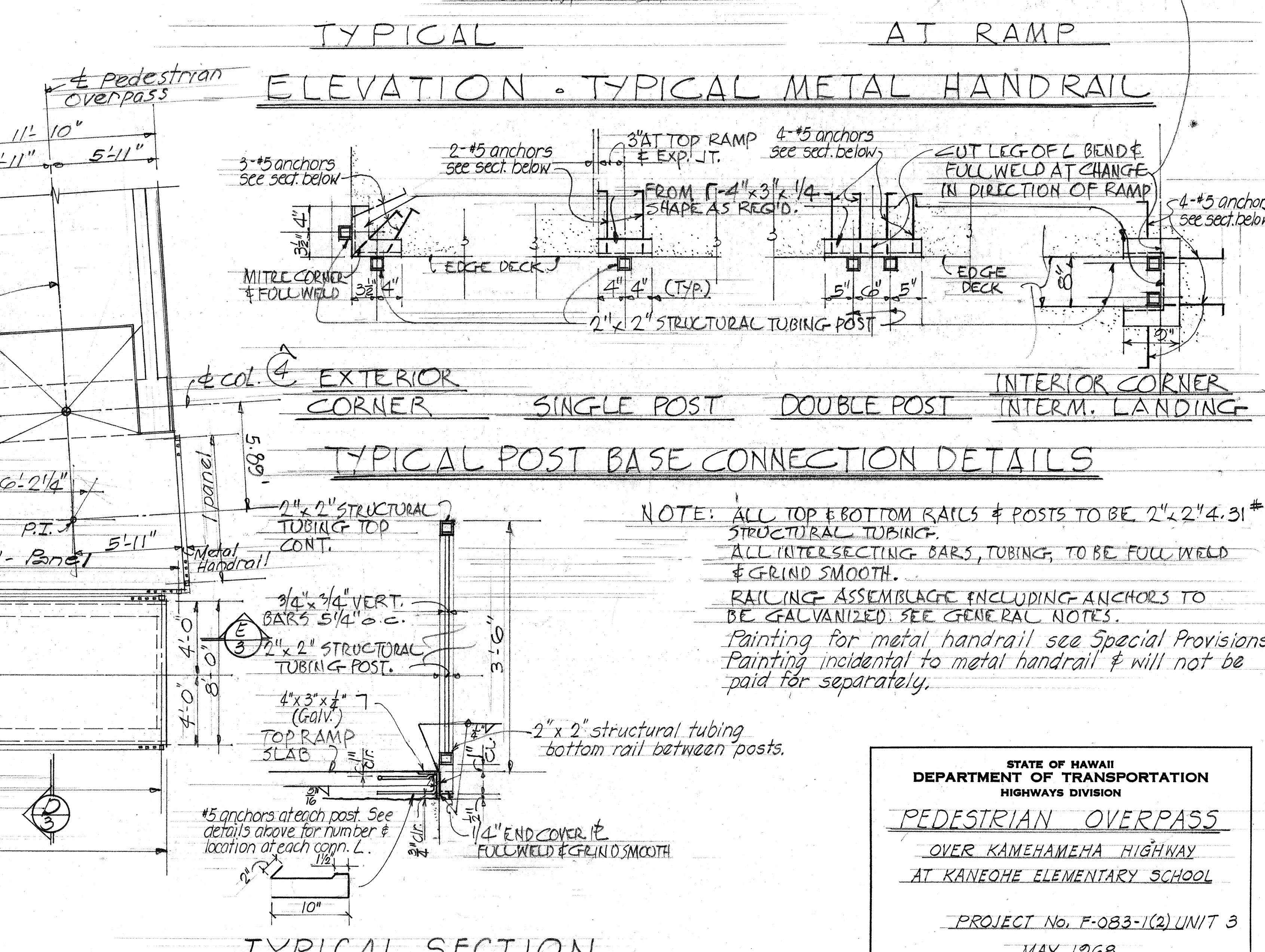
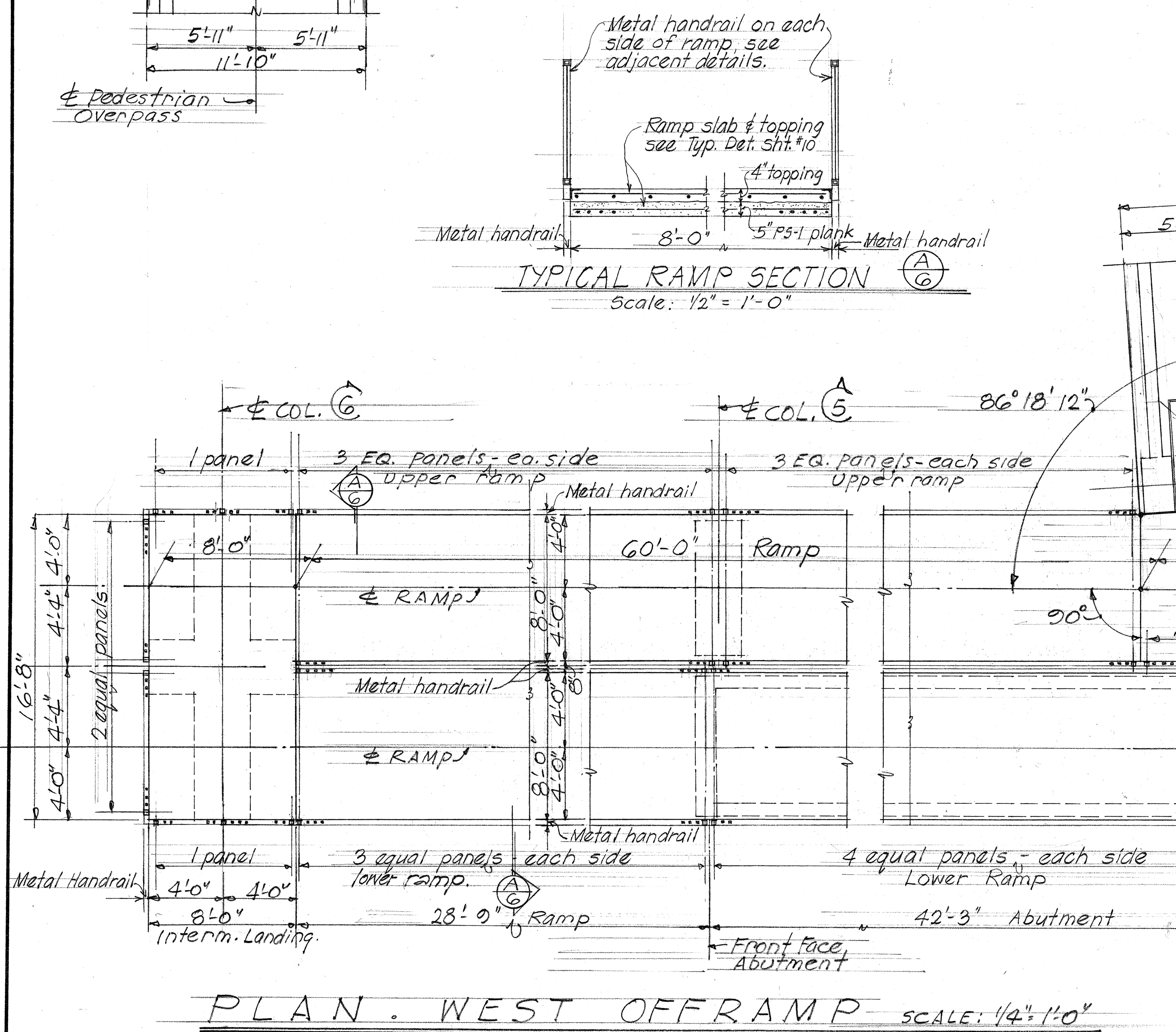
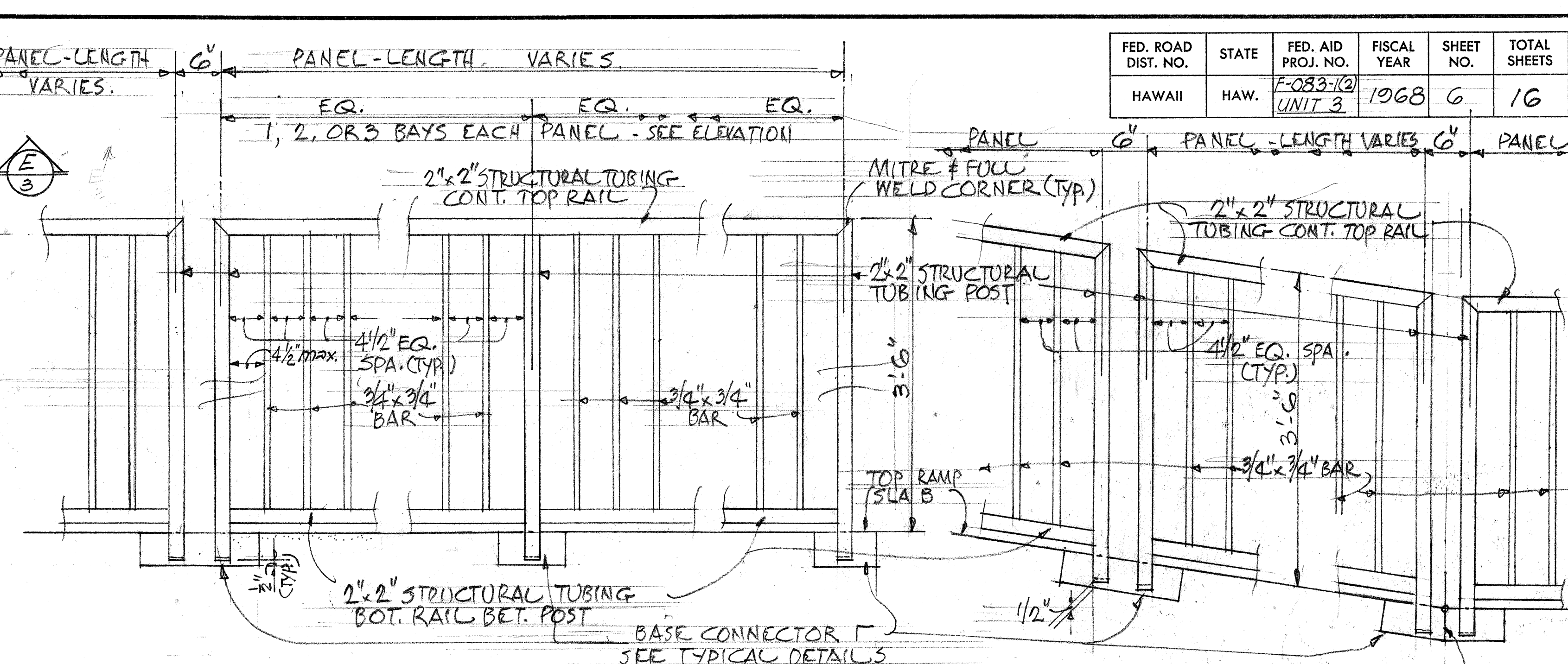
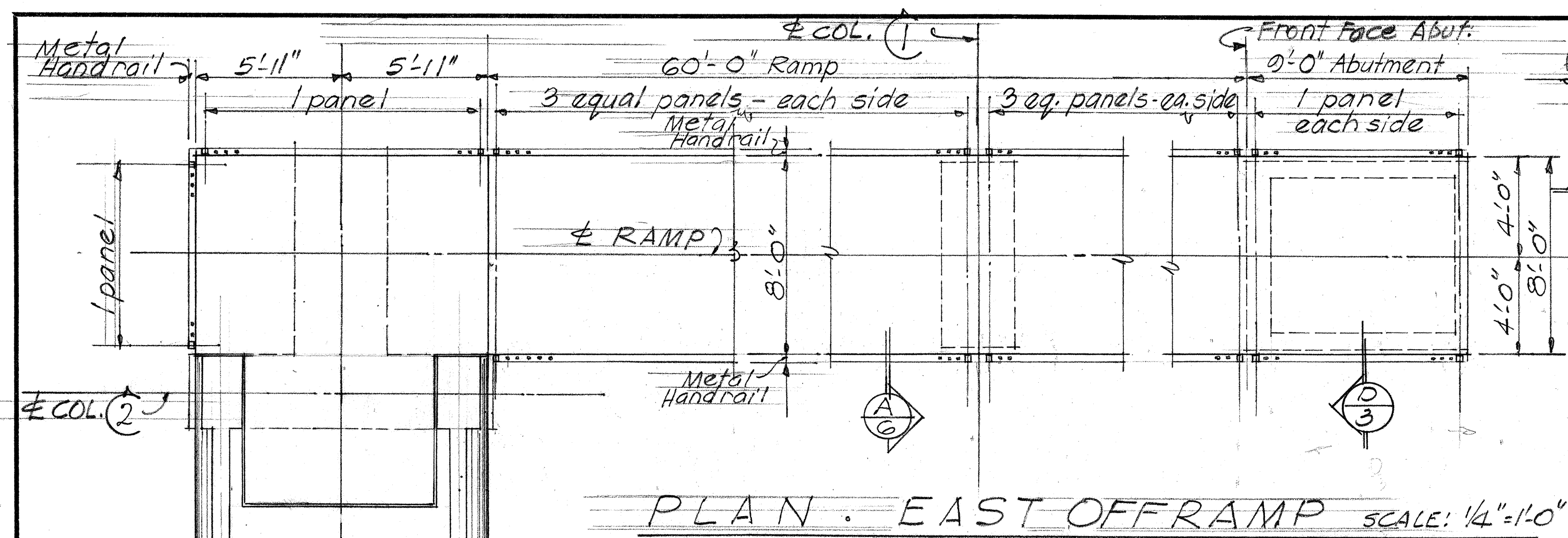
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PEDESTRIAN OVERPASS
OVER KAMEHAMEHA HIGHWAY
AT KANEIHE ELEMENTARY SCHOOL

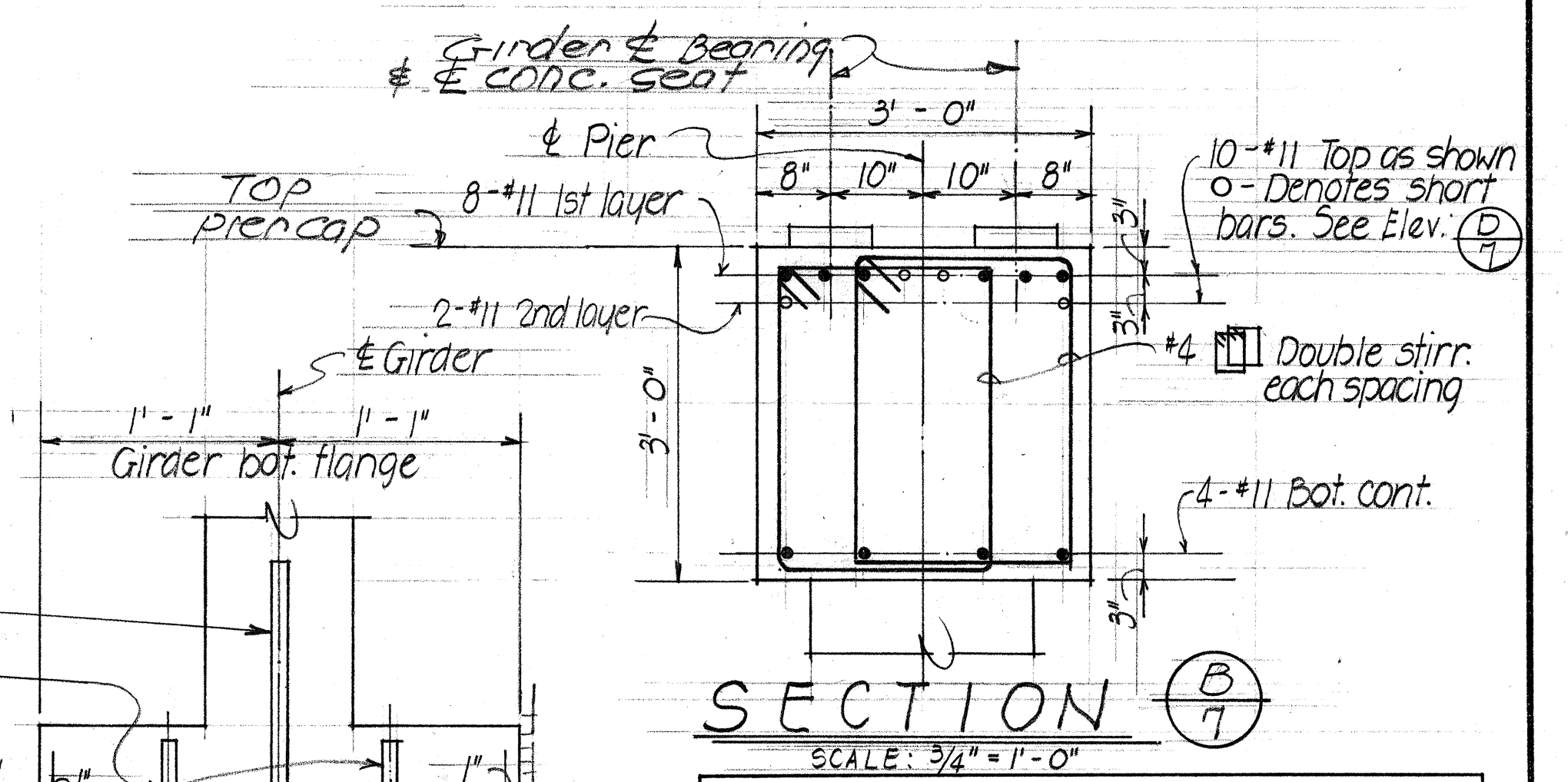
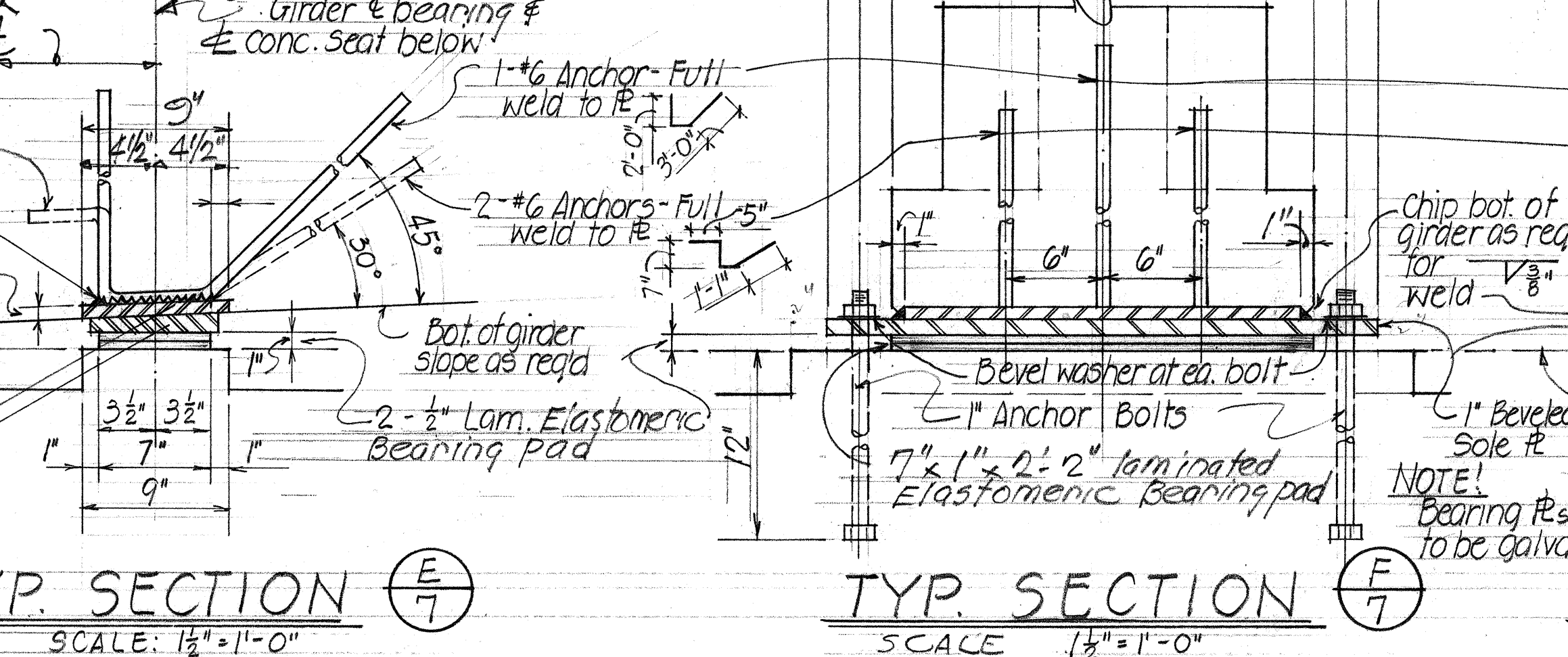
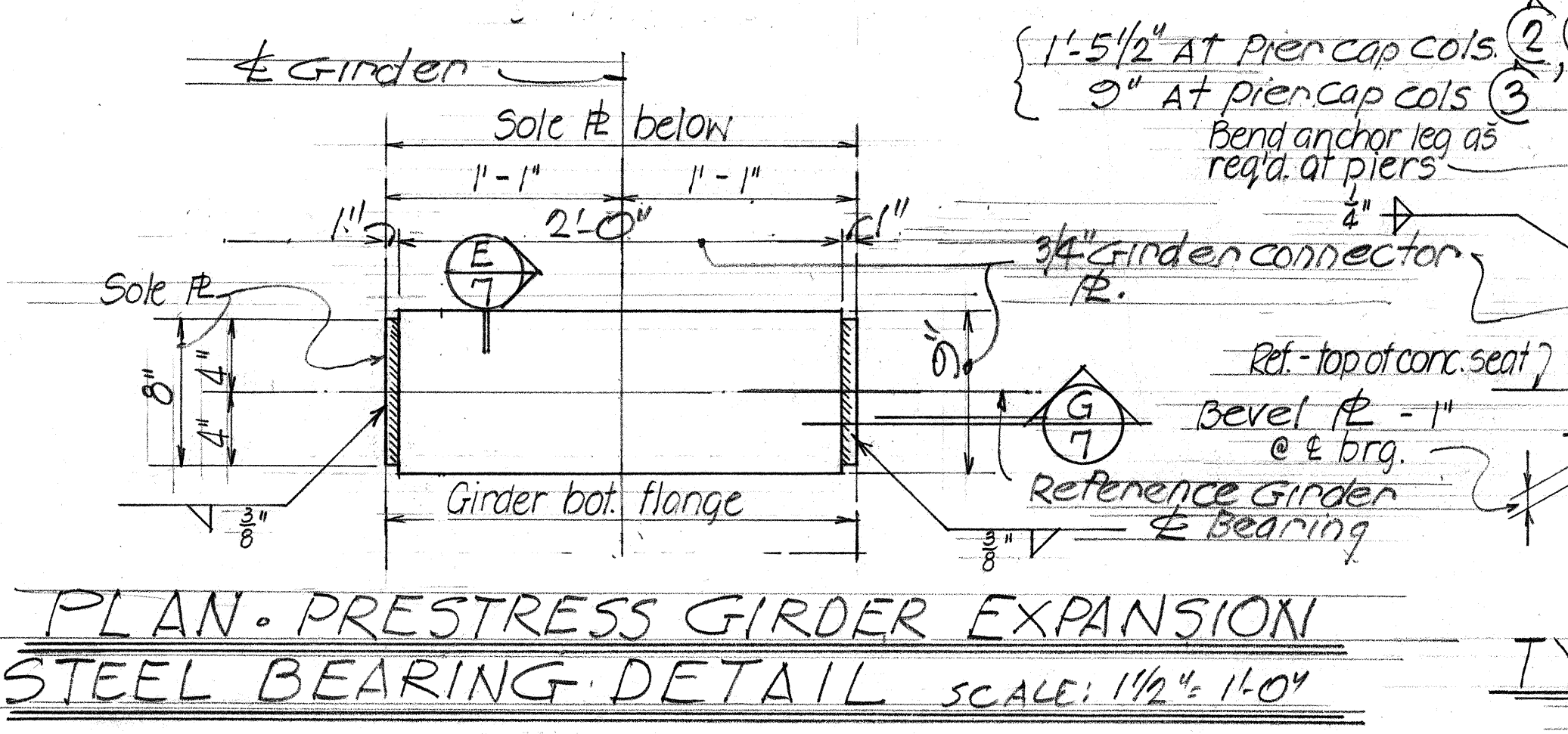
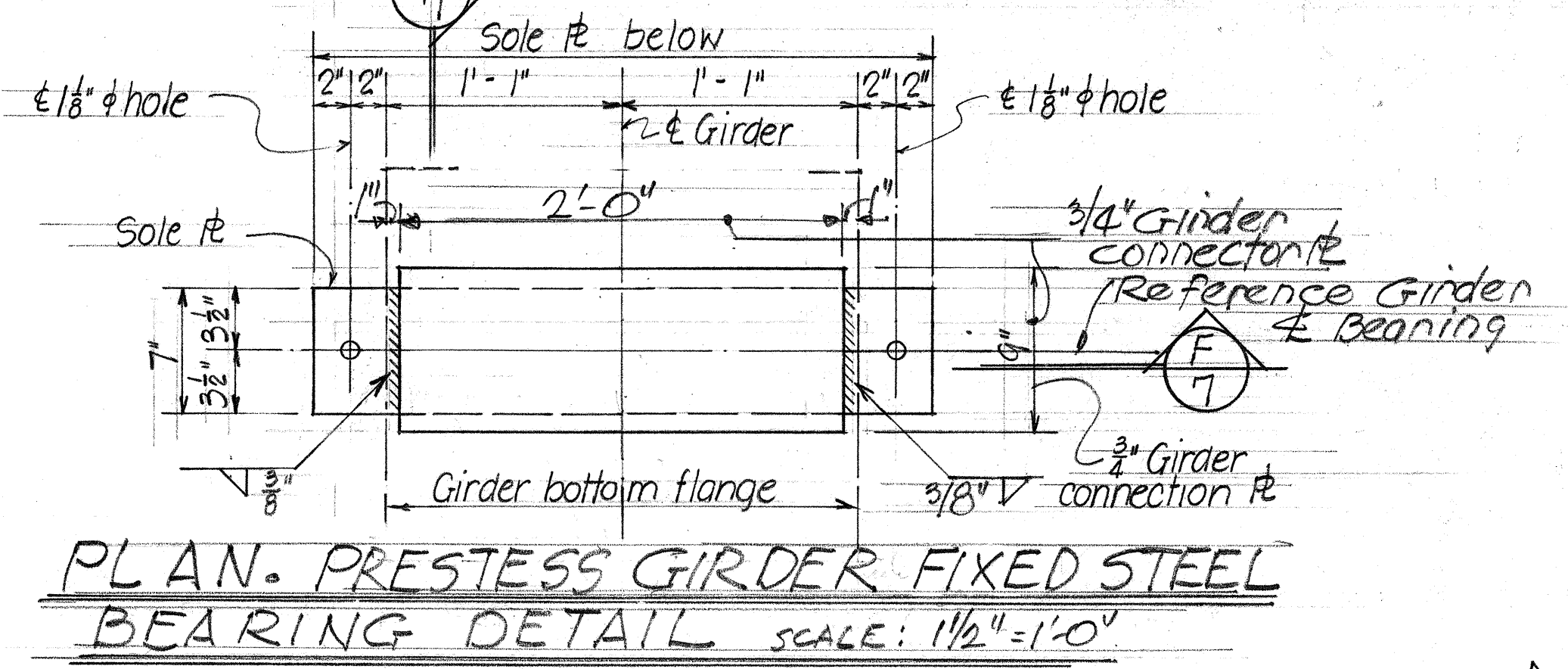
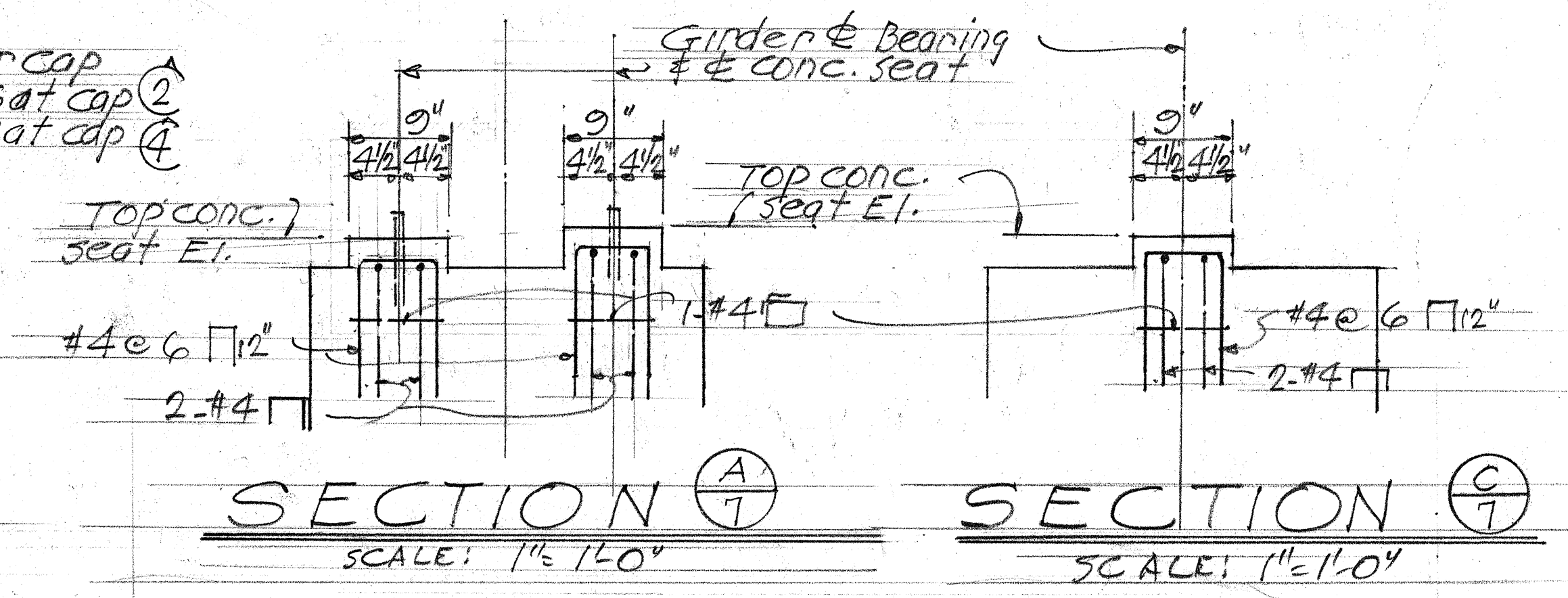
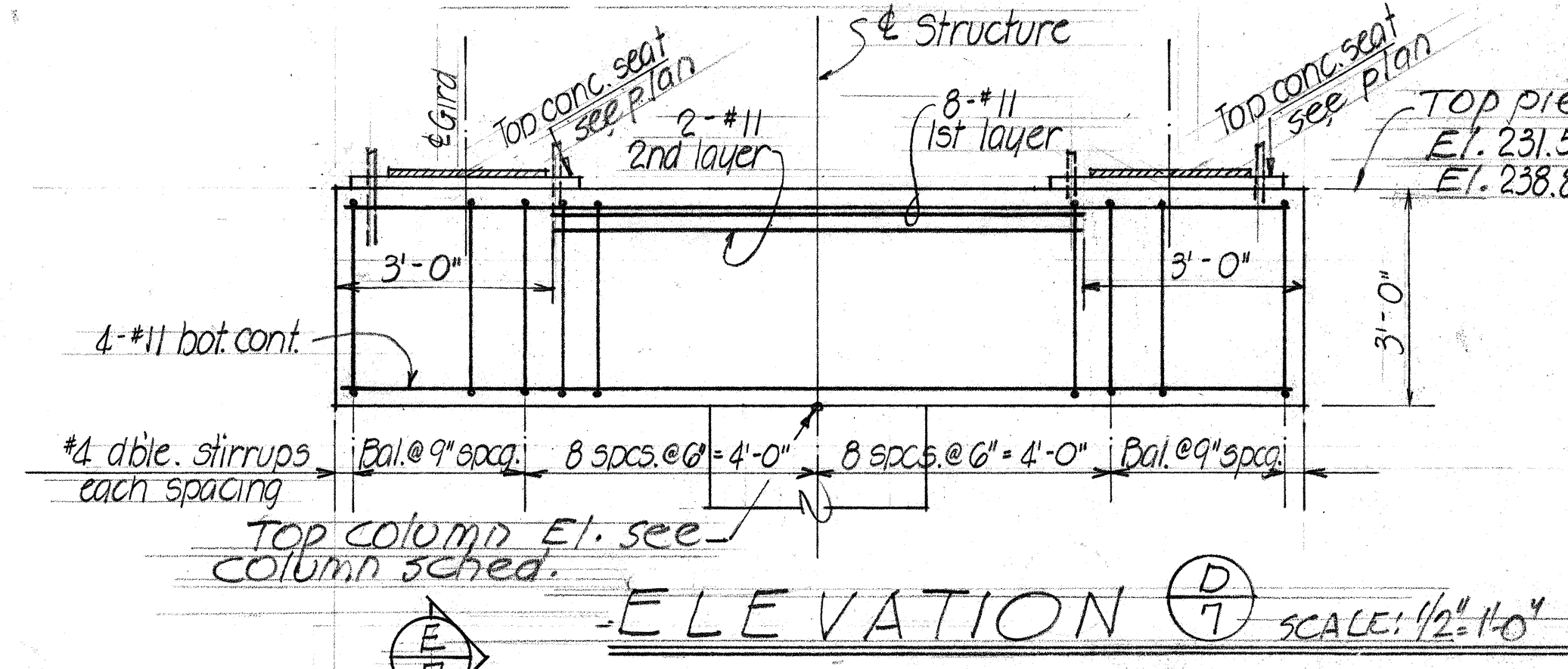
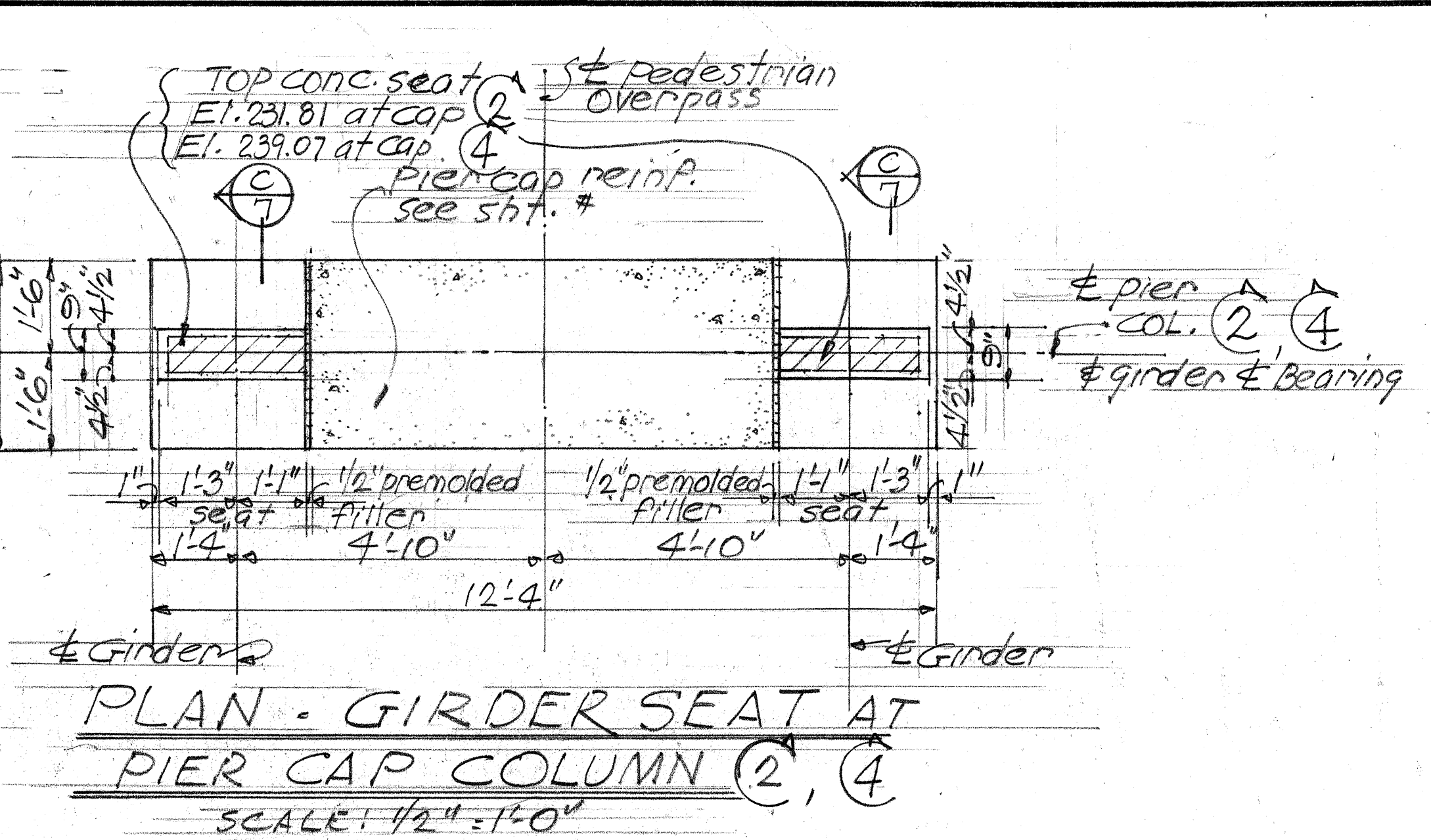
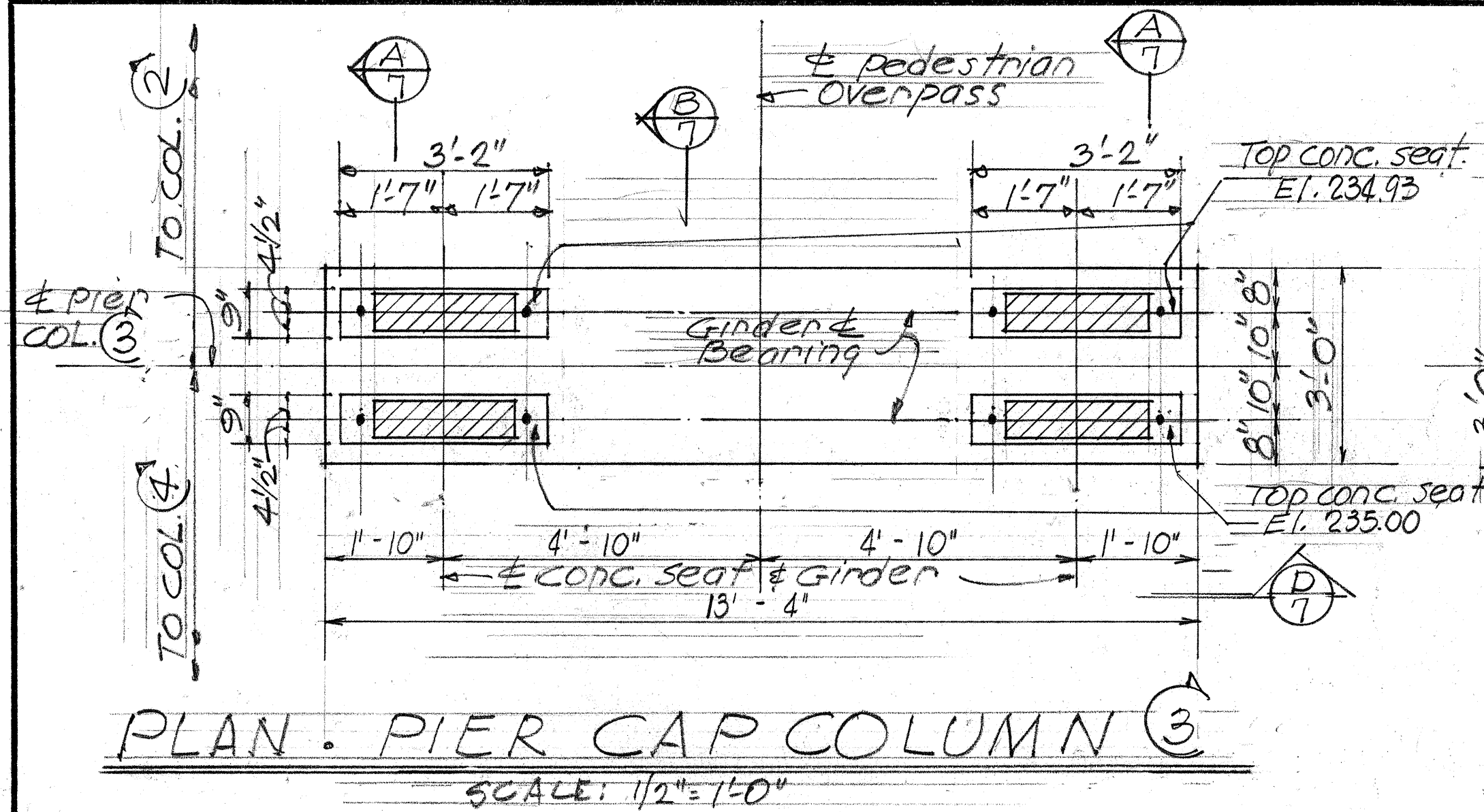
PROJECT No. F-083-1(2) UNIT 3
MAY 1968
SHEET No. 5 OF 16 SHEETS

DATE	10/1/68
DESIGNED BY	W. J. B. / J. B. B.
DRAWN BY	W. J. B. / J. B. B.
CHECKED BY	W. J. B. / J. B. B.
NOTED BY	W. J. B. / J. B. B.
ORIGINAL PLAN	W. J. B. / J. B. B.
NOTE BOOK	W. J. B. / J. B. B.
No.	W. J. B. / J. B. B.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-(2) UNIT 3	1968	6	16



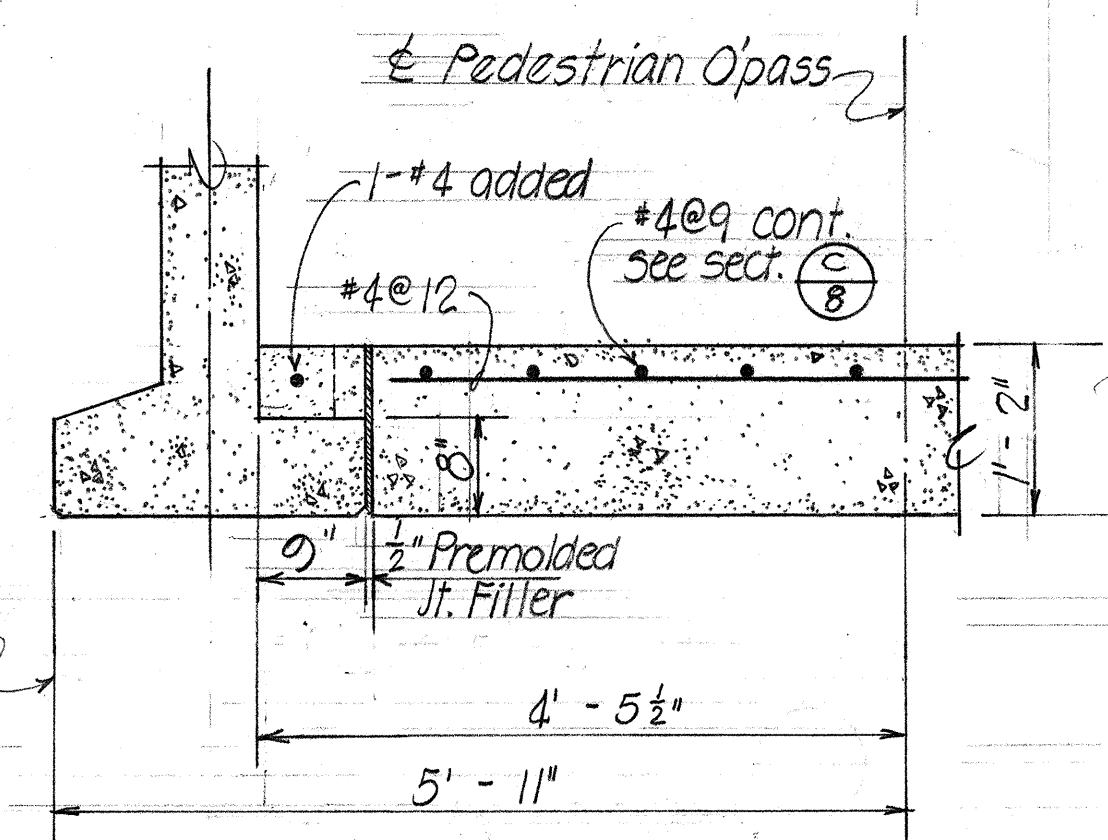
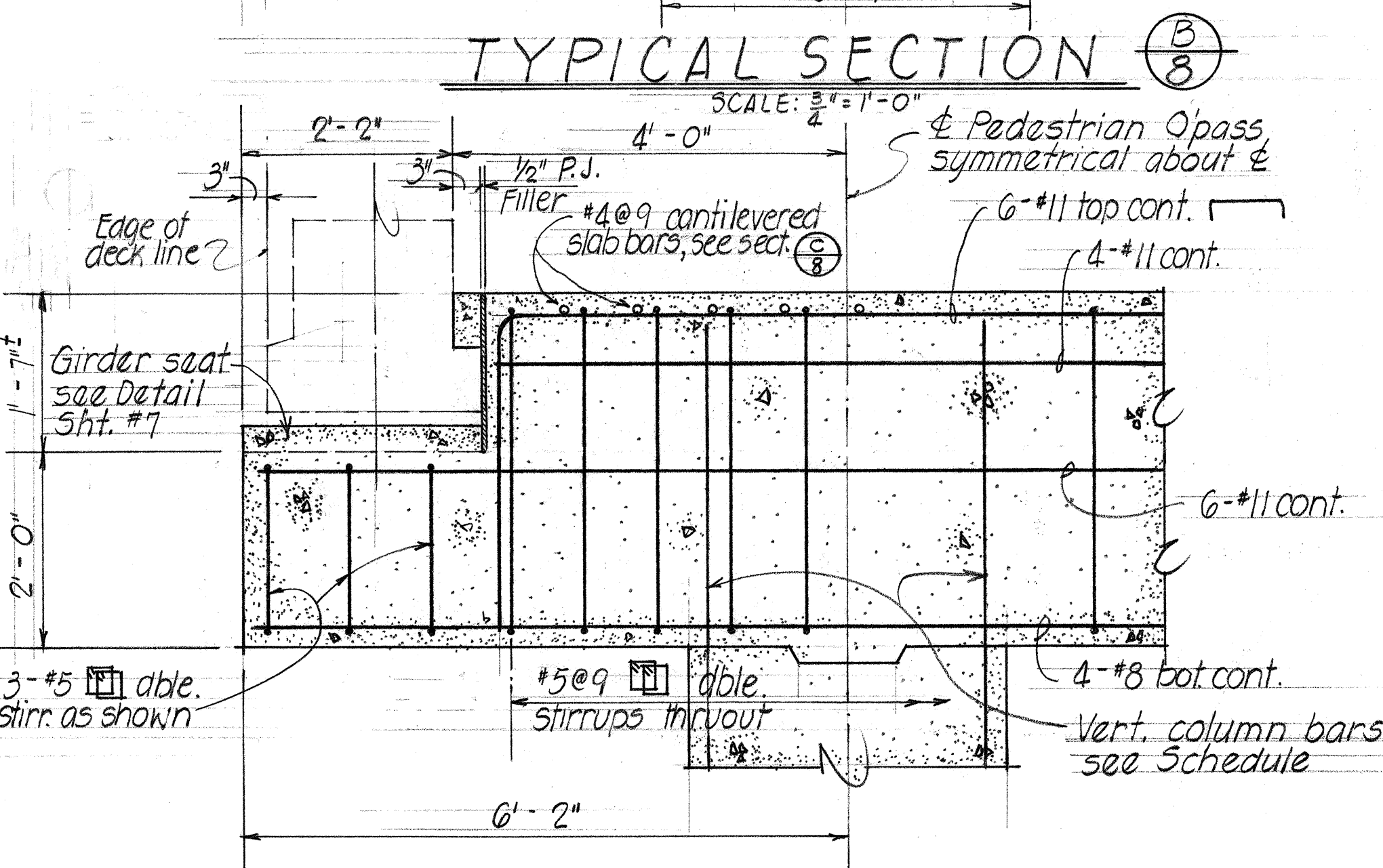
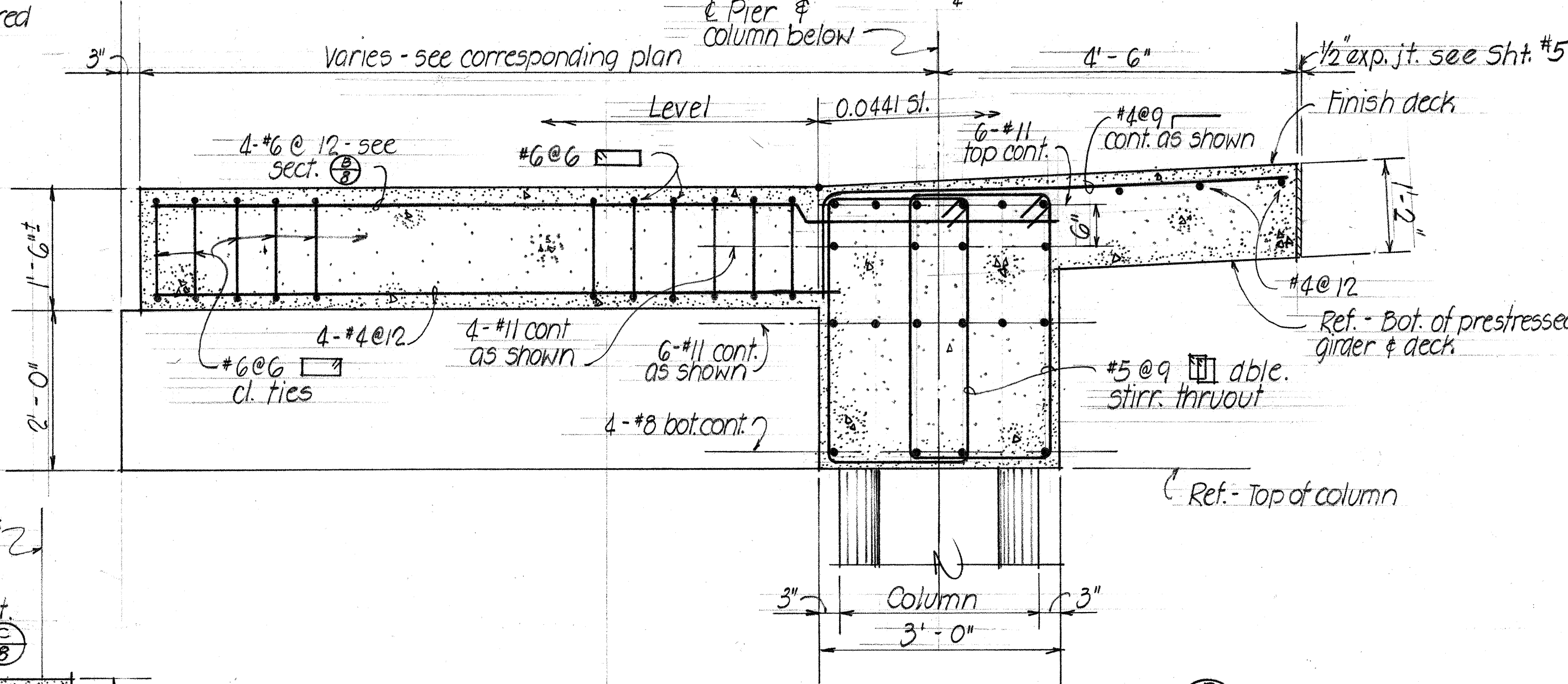
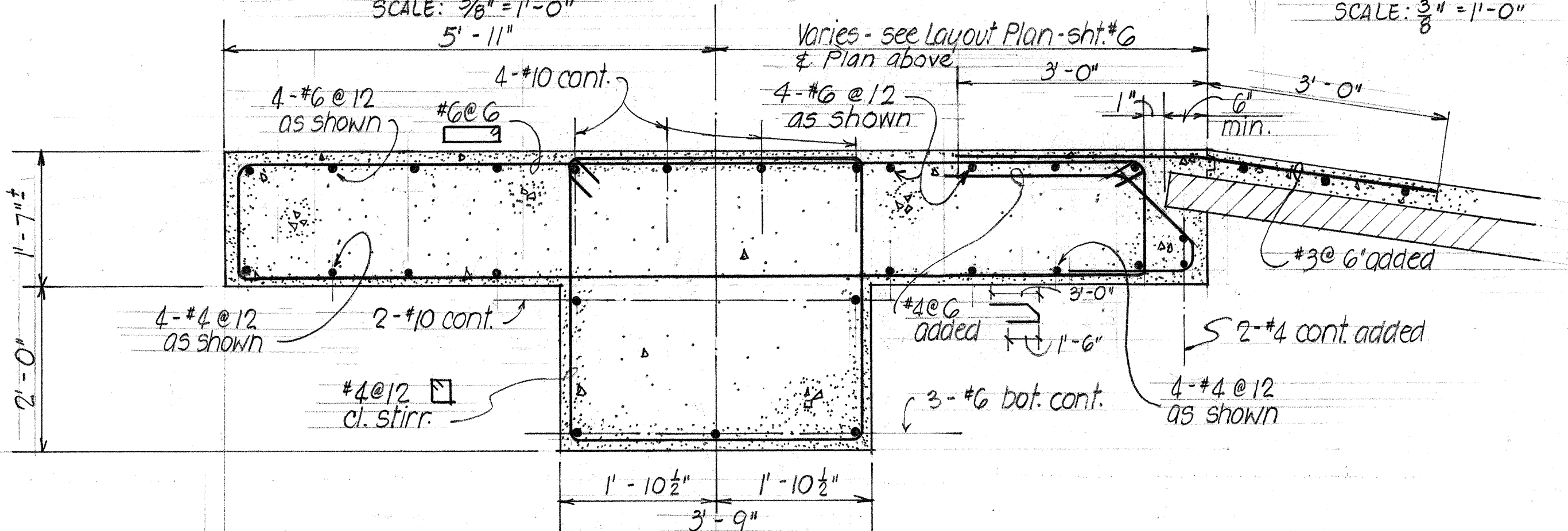
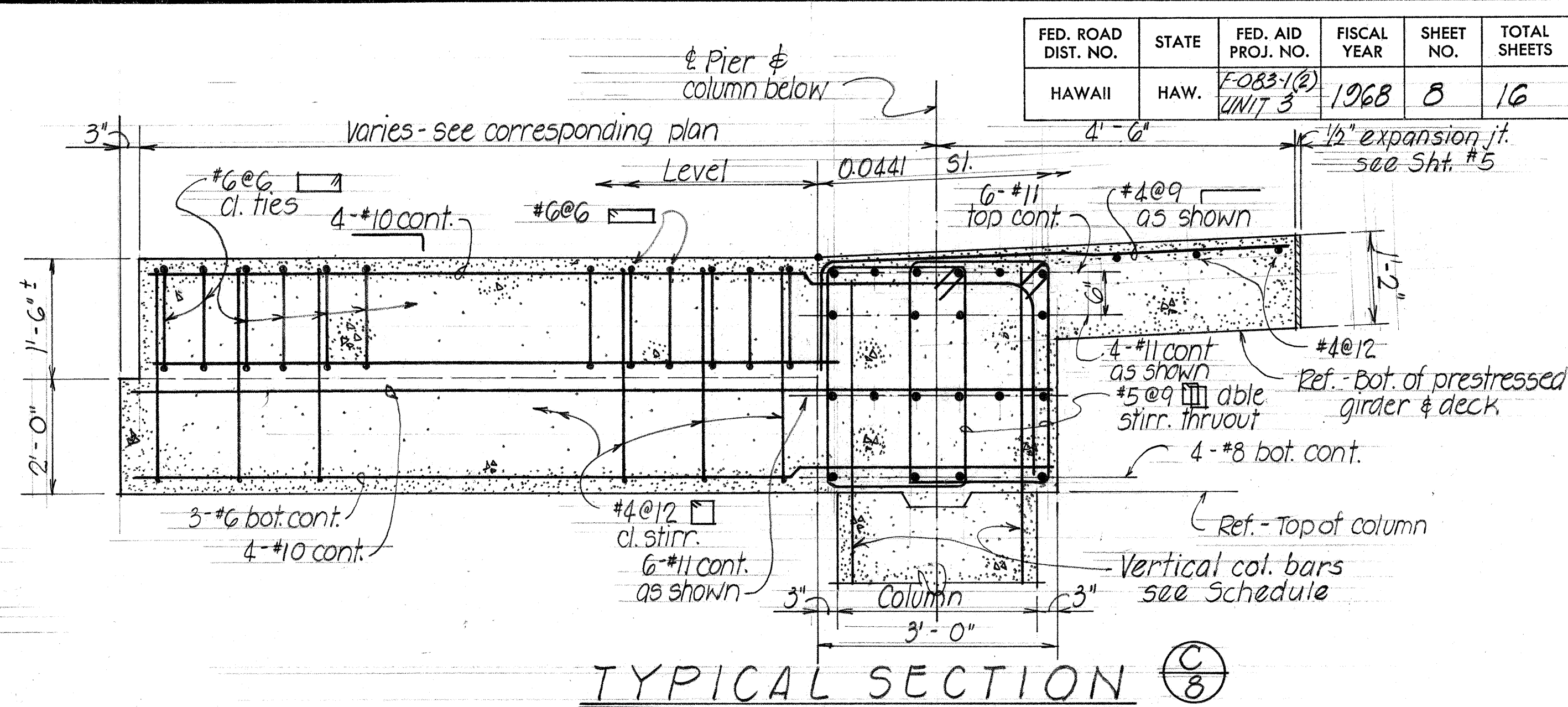
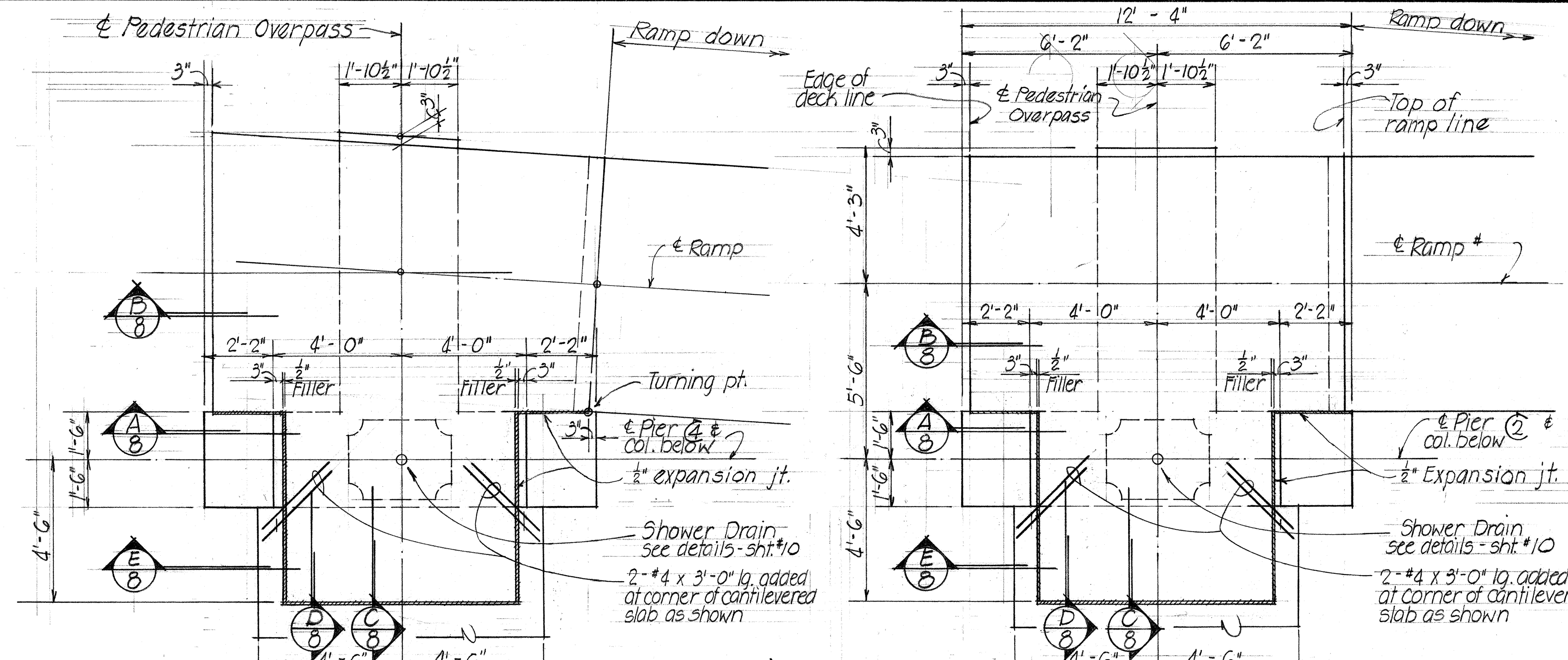
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(2) UNIT 3	1968	7	16



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PEDESTRIAN OVERPASS
OVER KAMEHAMEHA HIGHWAY
AT KANEIHE ELEMENTARY SCHOOL
PROJECT No. F-083-1(2) UNIT 3
MAY, 1968
SHEET No. 7 OF 16 SHEETS

DATE: _____
DESIGNED BY: _____
CHECKED BY: _____
DRAWN BY: _____
ORIGINAL PLAN: _____
NOTE BOOK: _____
No. _____

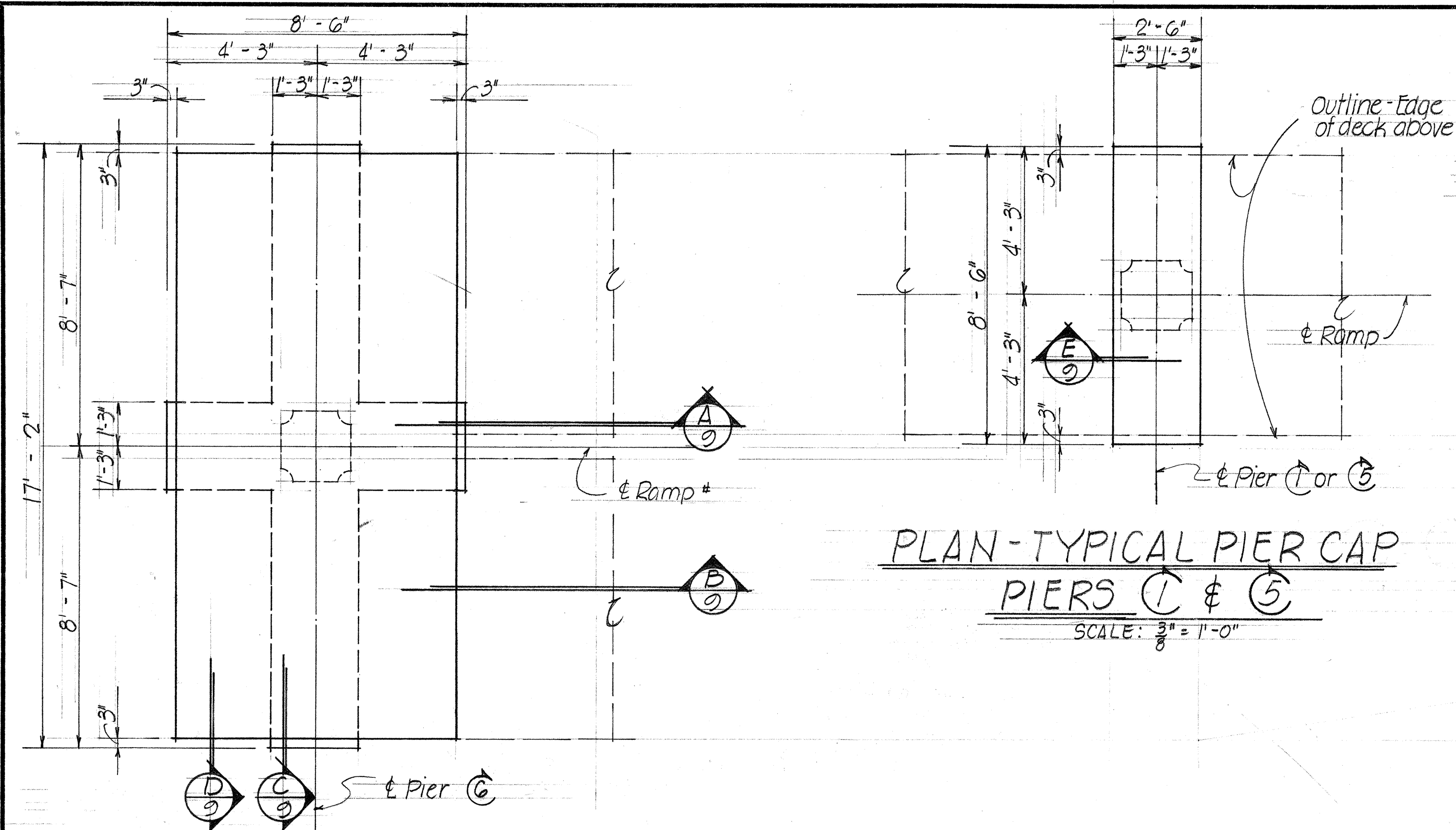
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(2) UNIT 3	1968	8	16



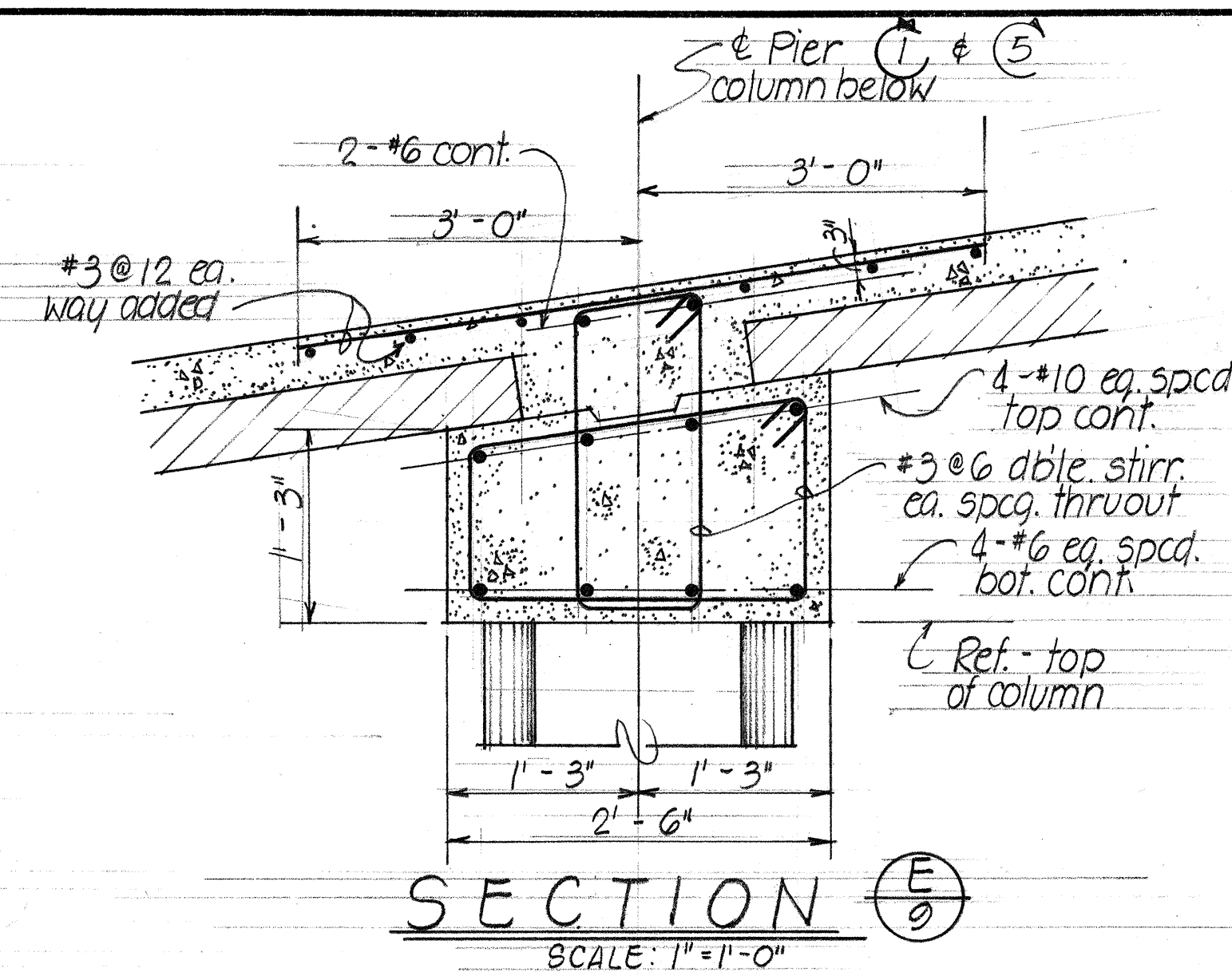
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PEDESTRIAN OVERPASS
OVER KAMEHAMEHA HIGHWAY
AT KANEHOE ELEMENTARY SCHOOL
PROJECT No. F-083-1(2) UNIT 3
MAY, 1968
SHEET No. 8 OF 16 SHEETS

DATE	
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
ORIGINAL PLAN	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(2) Unit 3	1968	9	16

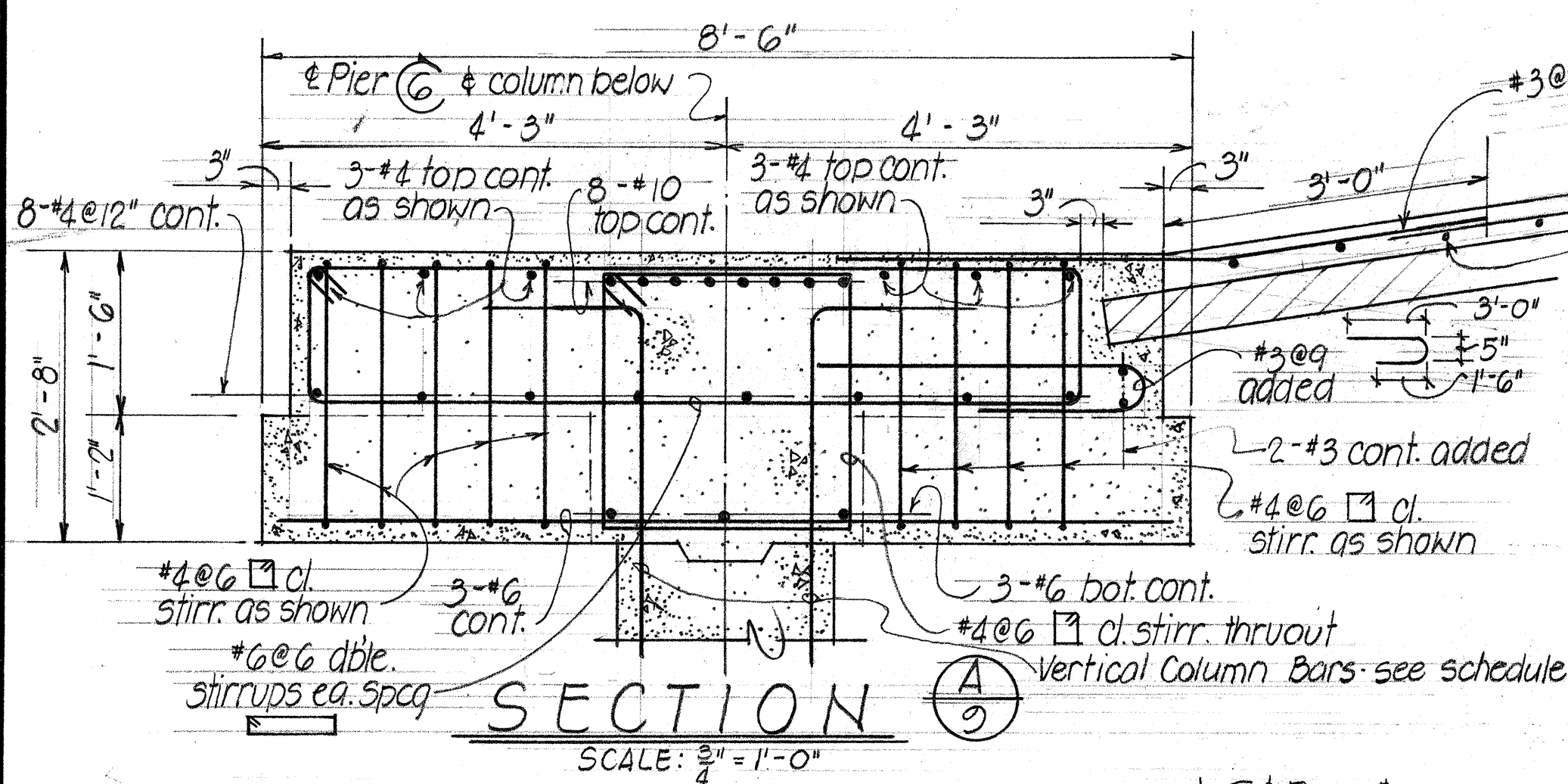


PLAN-TYPICAL PIER CAP
PIERS 1 & 5
SCALE: $\frac{3}{8}$ " = 1'-0"

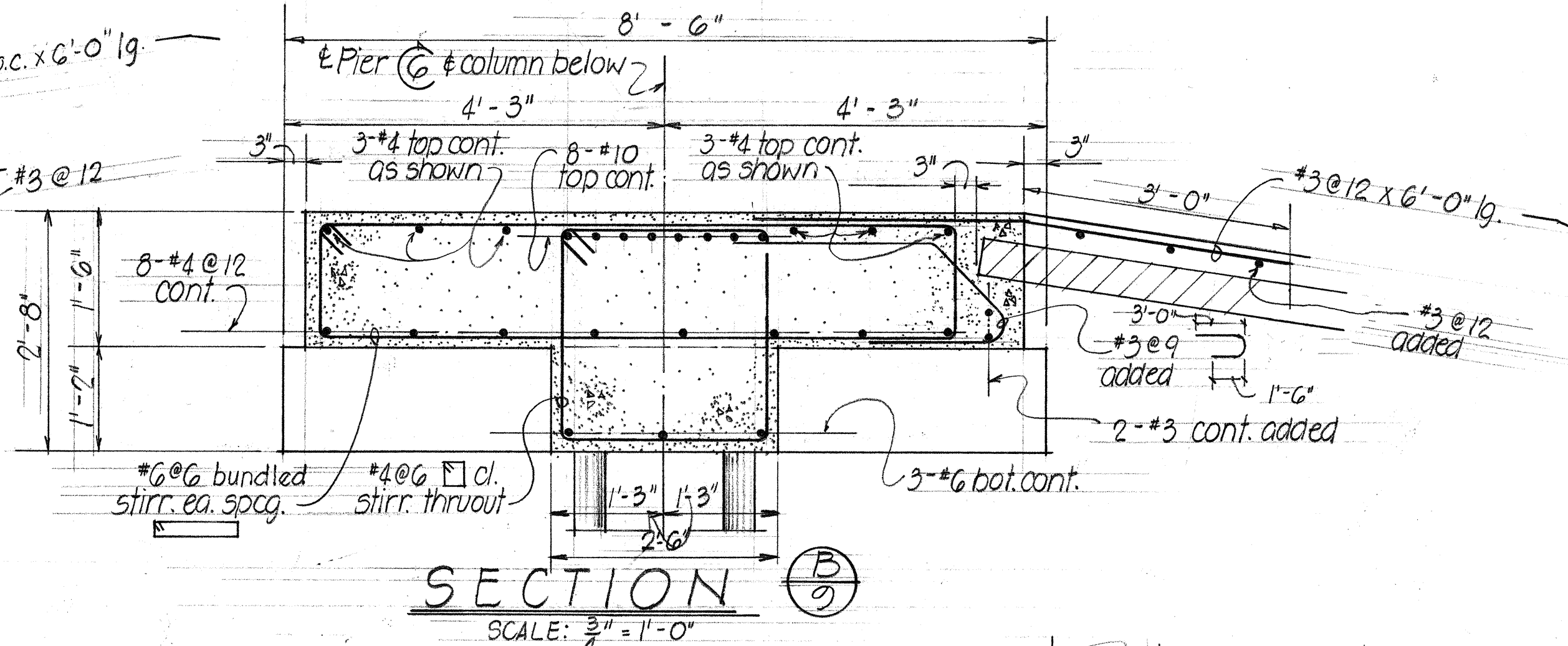


SECTION E-E
SCALE: 1" = 1'-0"

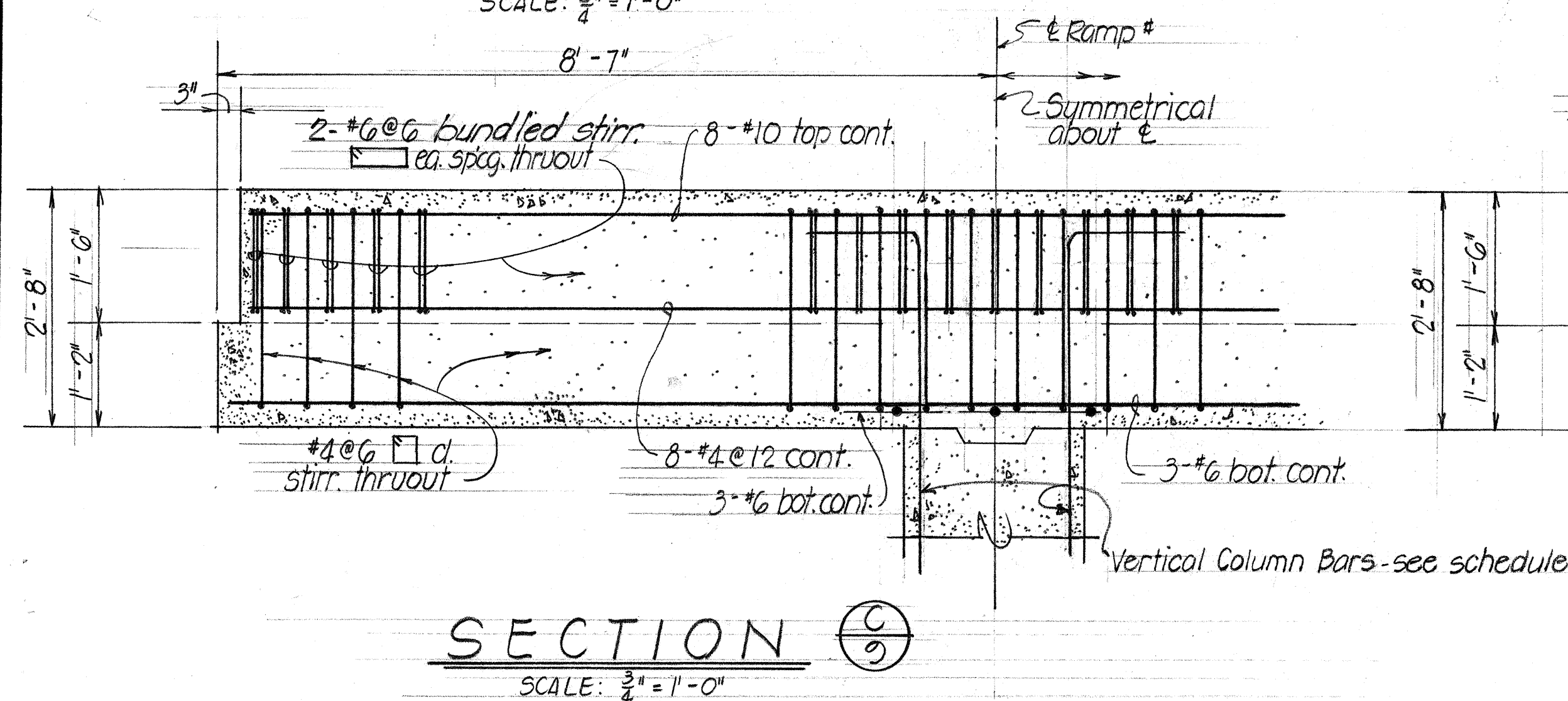
PLAN-PIER CAP AT PIER 6
SCALE: $\frac{3}{8}$ " = 1'-0"



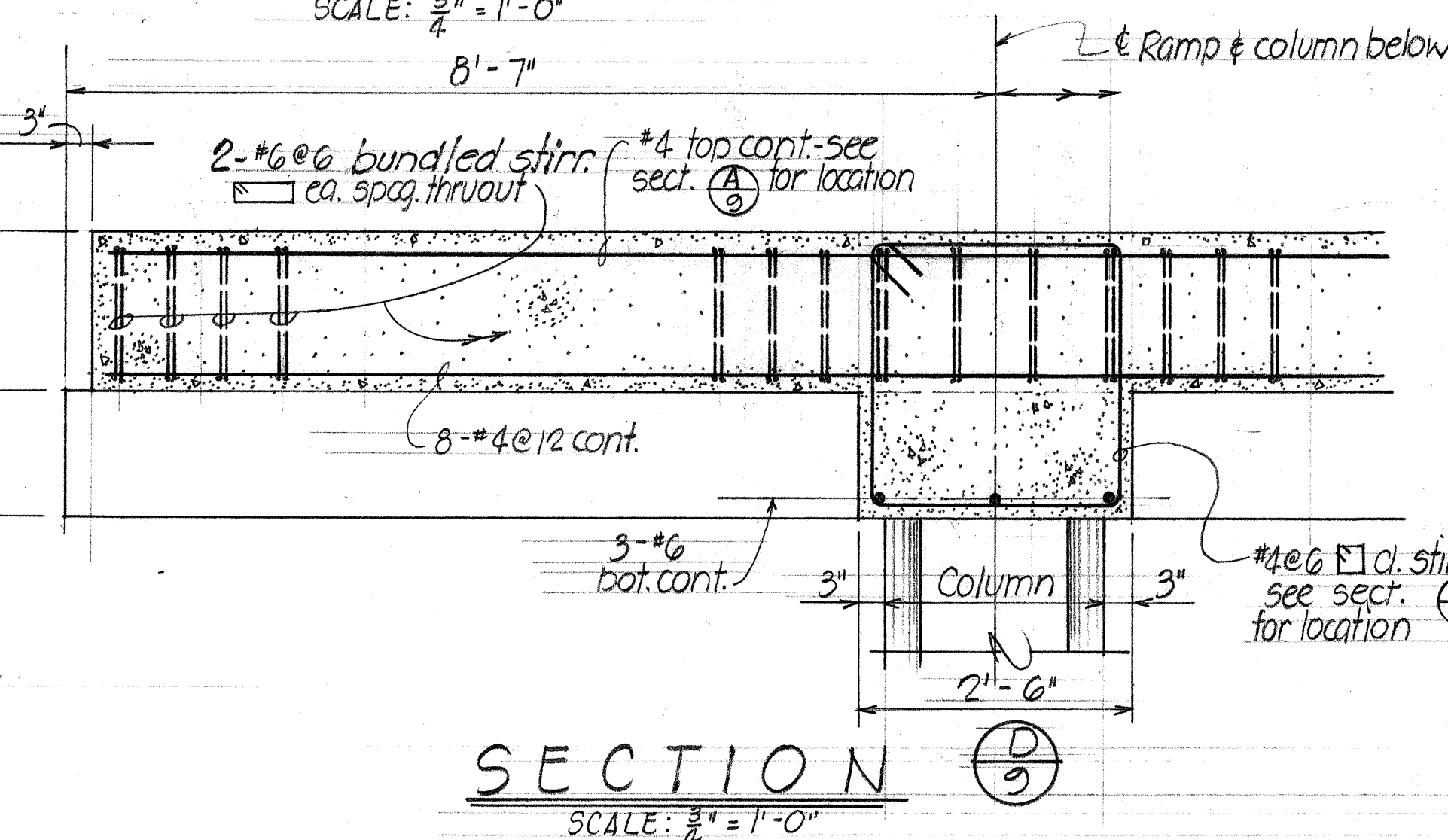
SECTION A-A
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION B-B
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION C-C
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION D-D
SCALE: $\frac{3}{4}$ " = 1'-0"

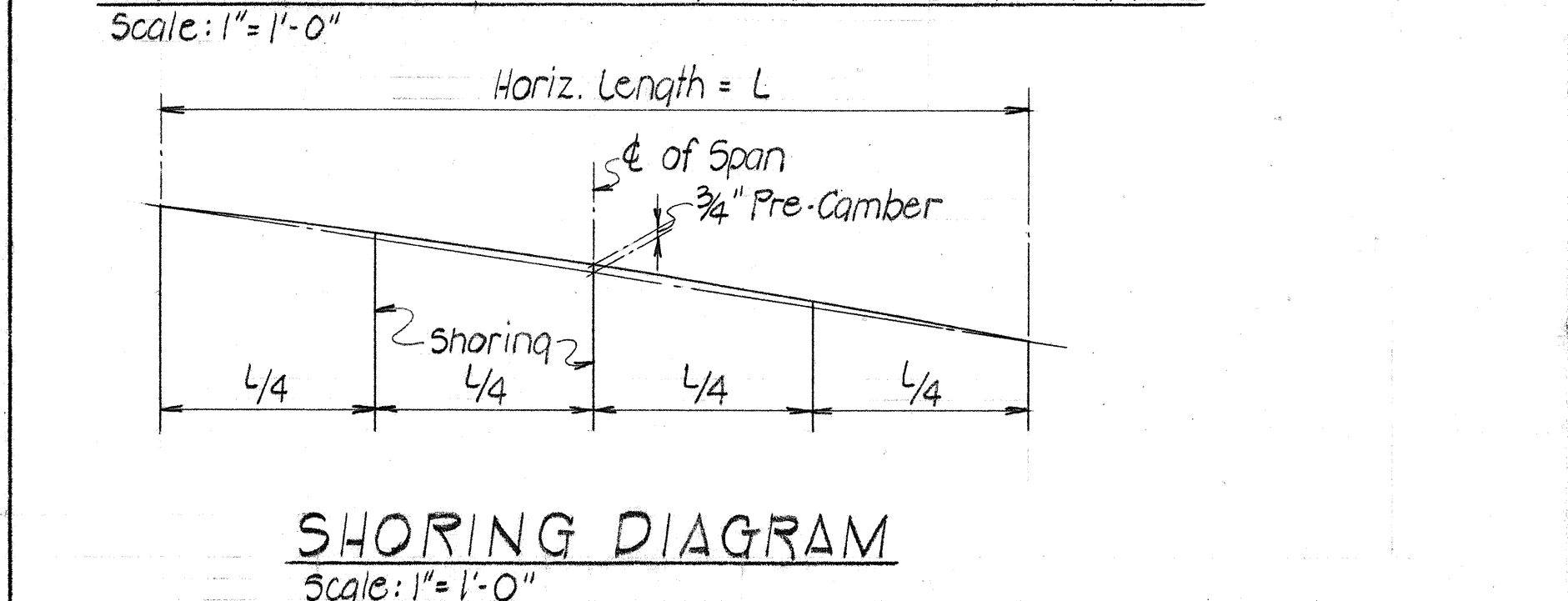
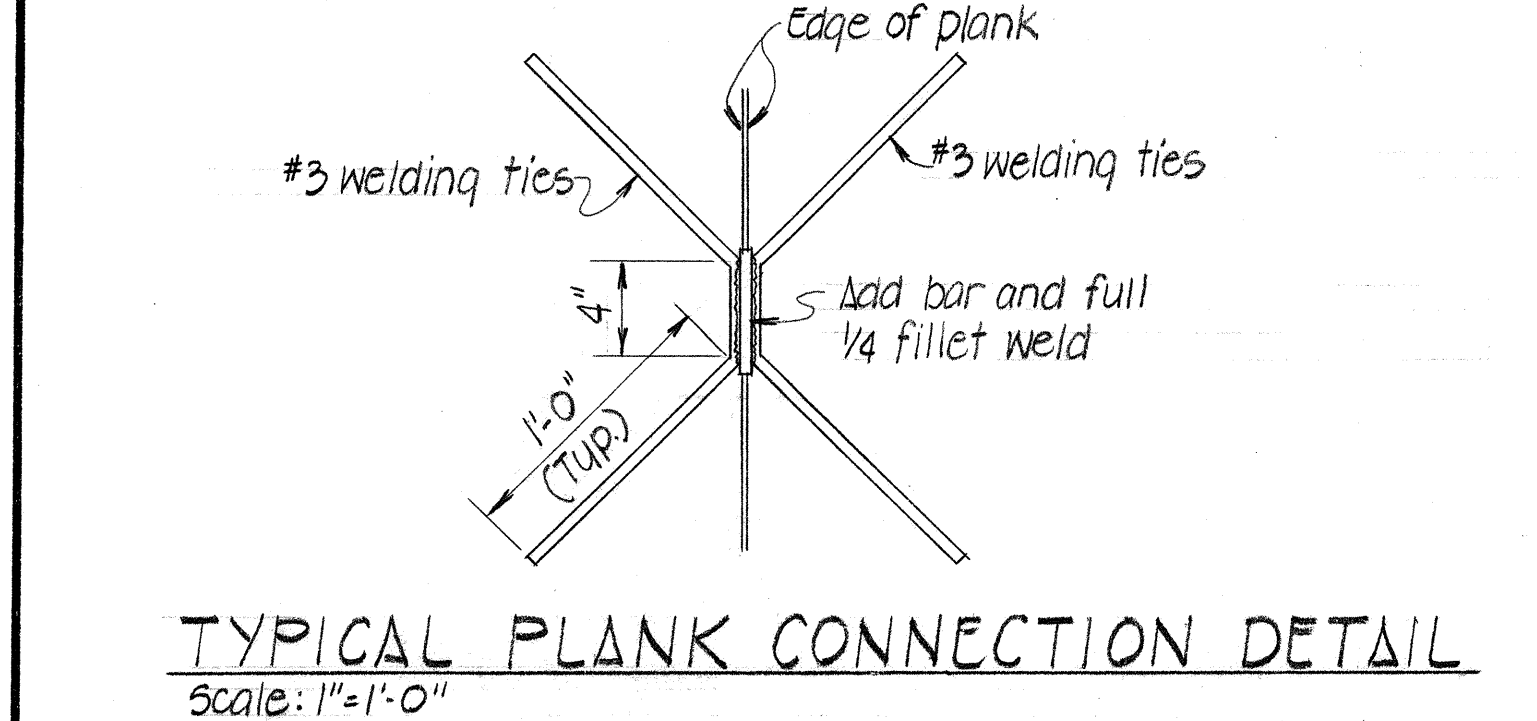
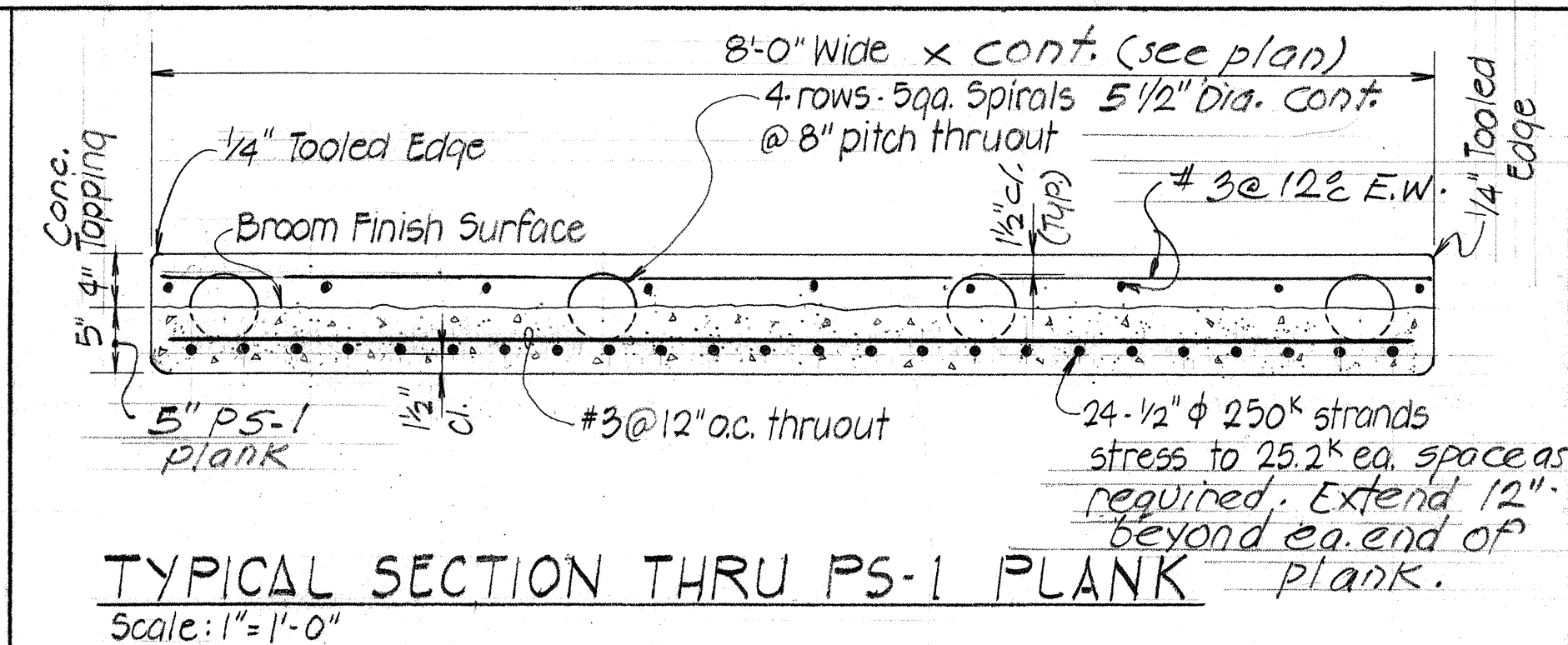
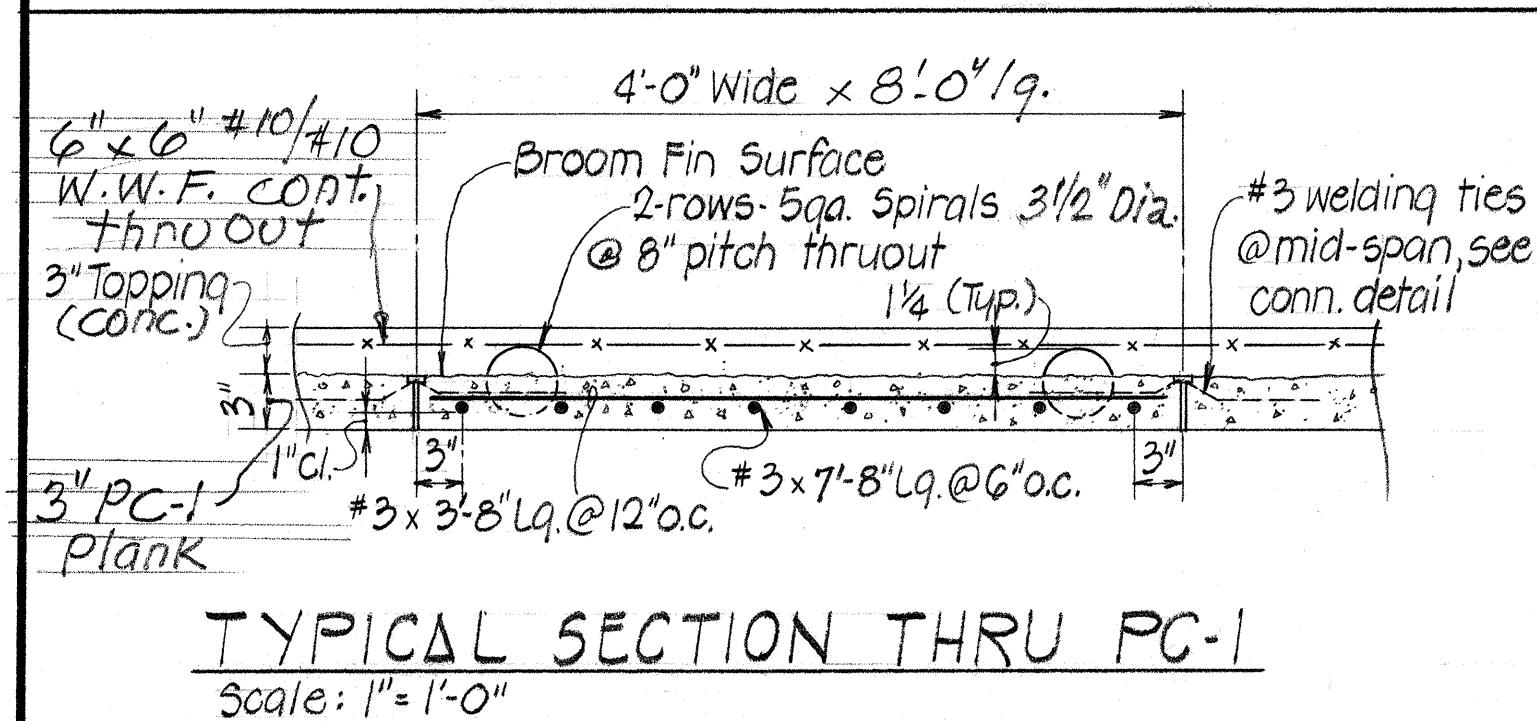
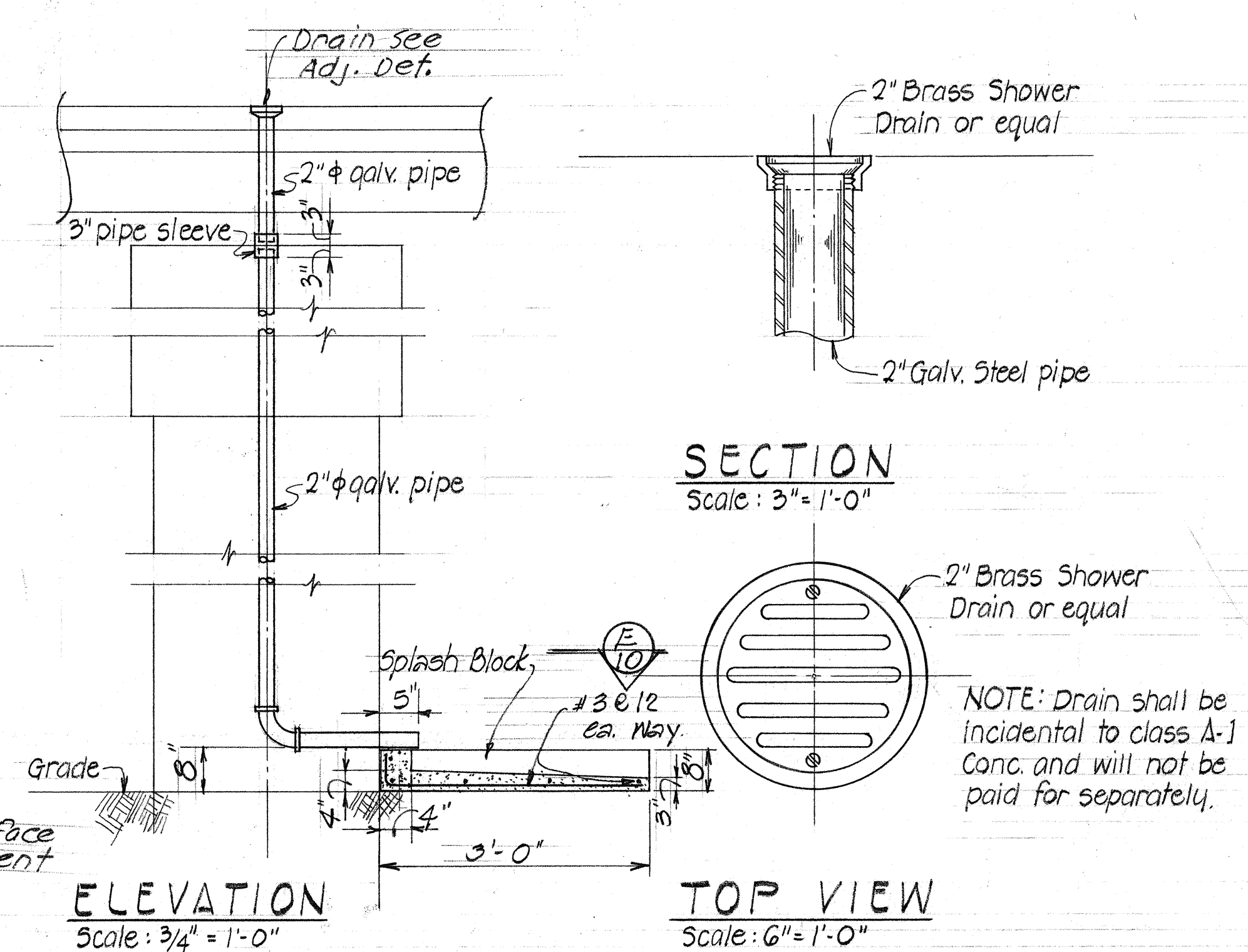
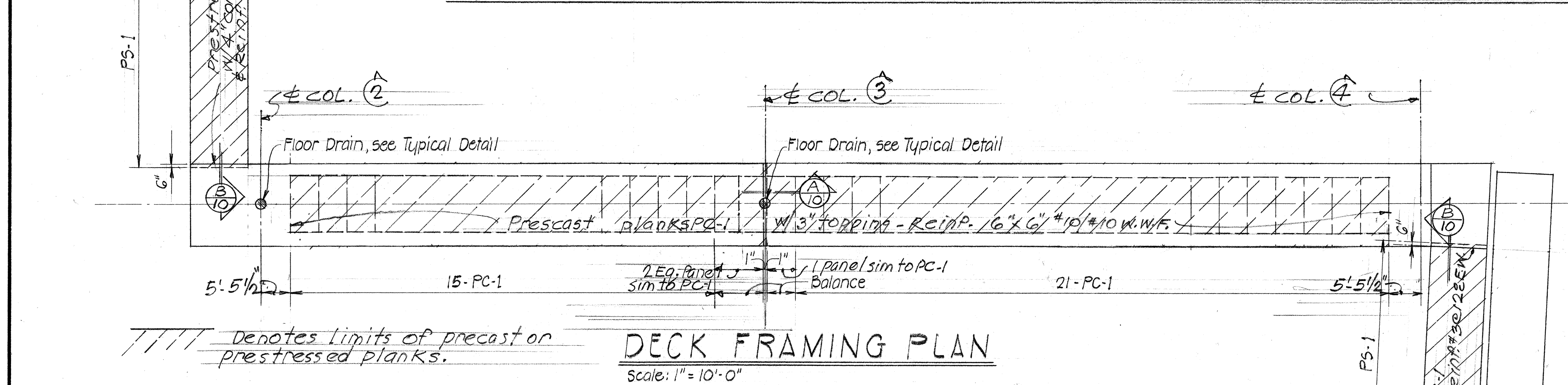
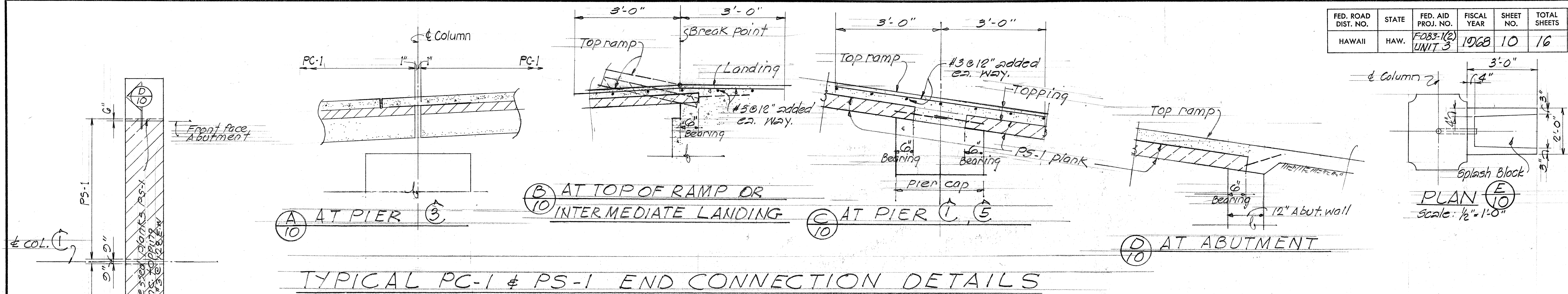
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PEDESTRIAN OVERPASS
OVER KAMEHAMEHA HIGHWAY
AT KANEHOE ELEMENTARY SCHOOL

PROJECT No. F-083-1(2) UNIT 3
MAY, 1968

SHEET No. 9 OF 16 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F083-1(2) UNIT 3	1968	10	16



TYPICAL PRE-CAST PLANK PC-1 DETAIL

TYPICAL PRESTRESSED PLANK PS-1 DETAIL

PRECAST & PRESTRESSED PLANKS (PC-1, PS-1)
 1. ALL REINFORCING STEEL, PRESTRESSING STEEL, SPIRALS AND WELDING TIES ARE INCIDENTAL TO PLANKS & WILL NOT BE PAID FOR SEPARATELY.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PEDESTRIAN OVERPASS
 OVER KAMEHAMEHA HIGHWAY
 AT KANEOHE ELEMENTARY SCHOOL

PROJECT NO. F-083-1(2) UNIT 3
 MAY, 1968
 SHEET No. 10 OF 16 SHEETS