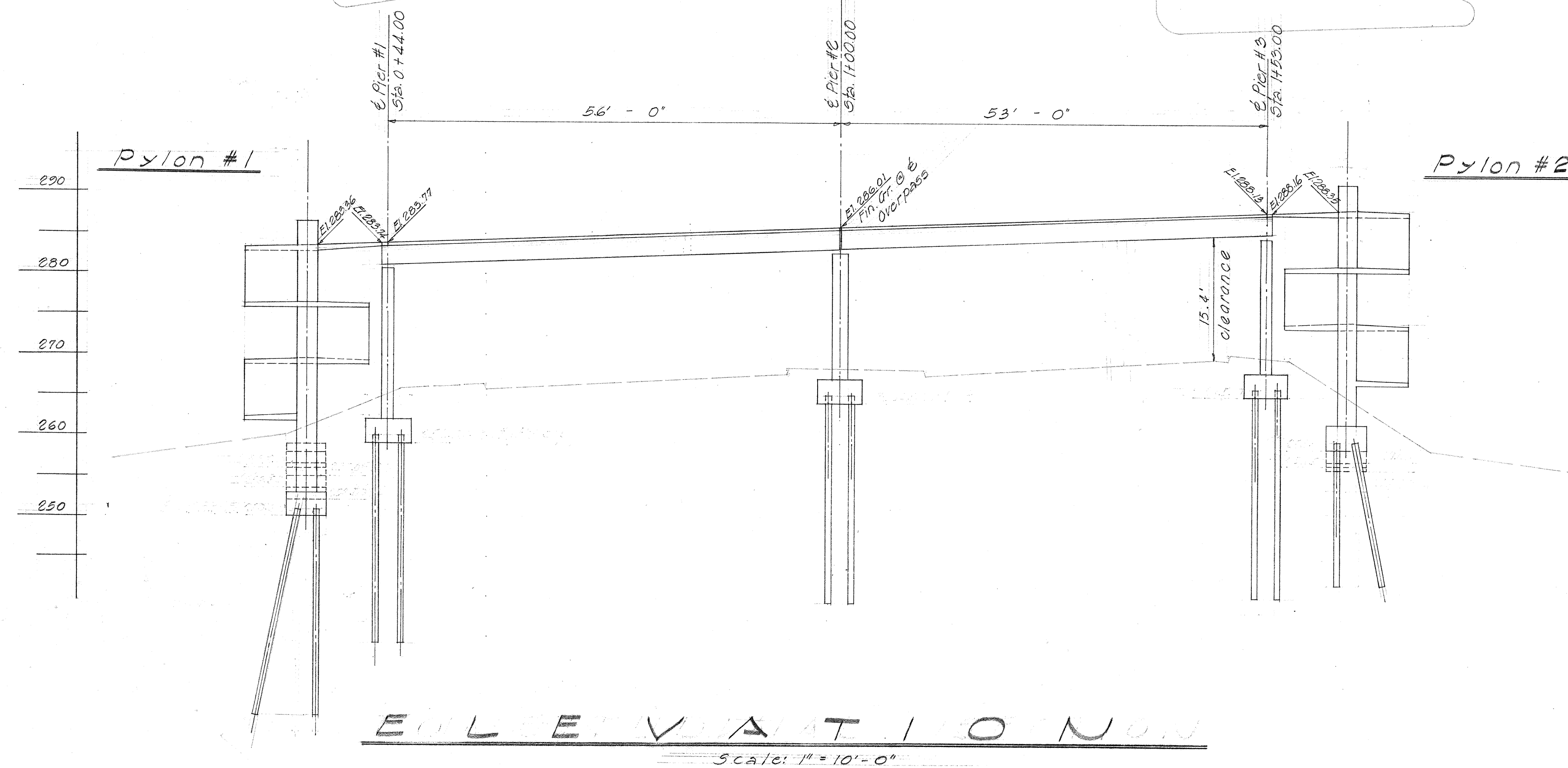
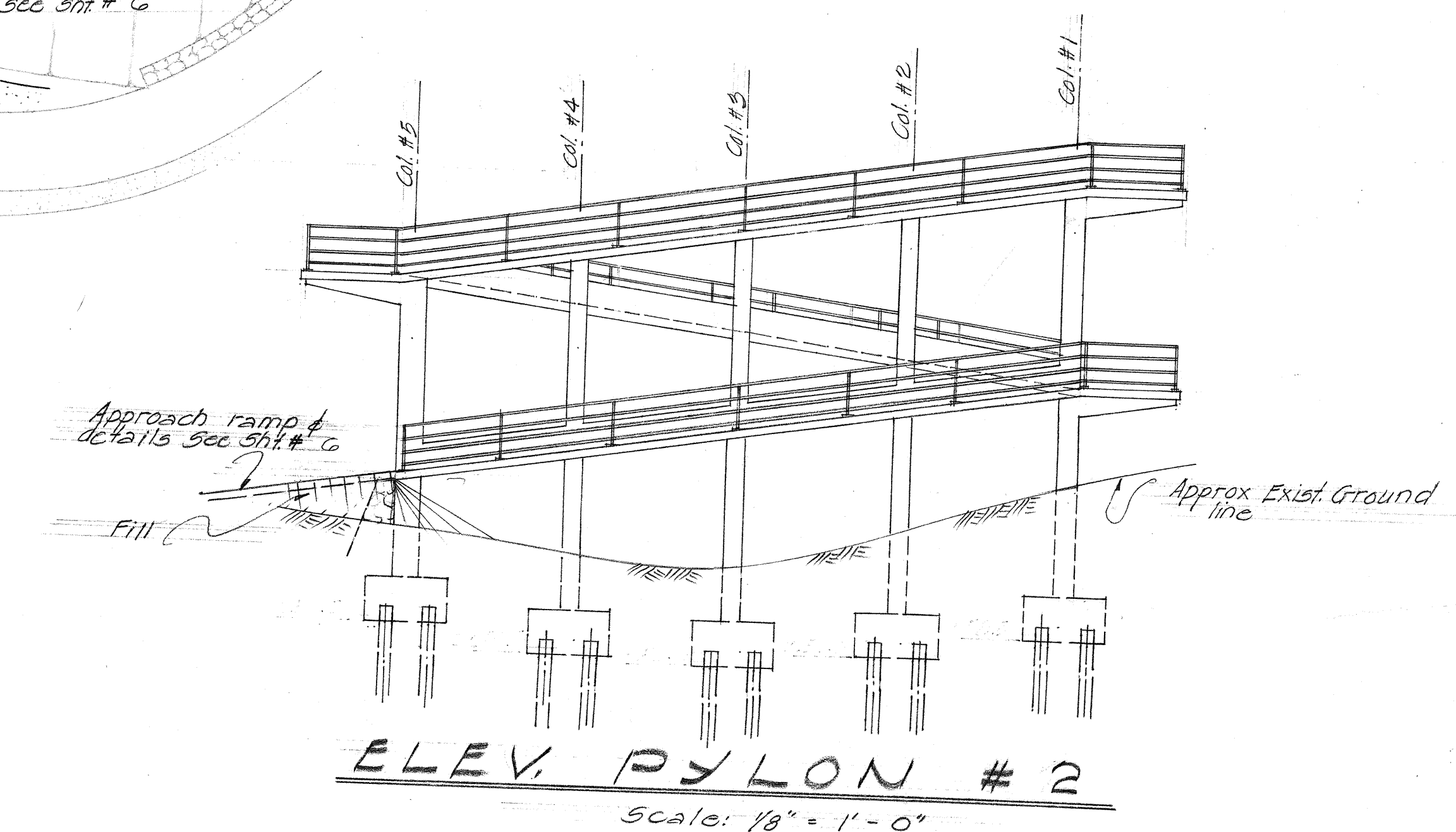
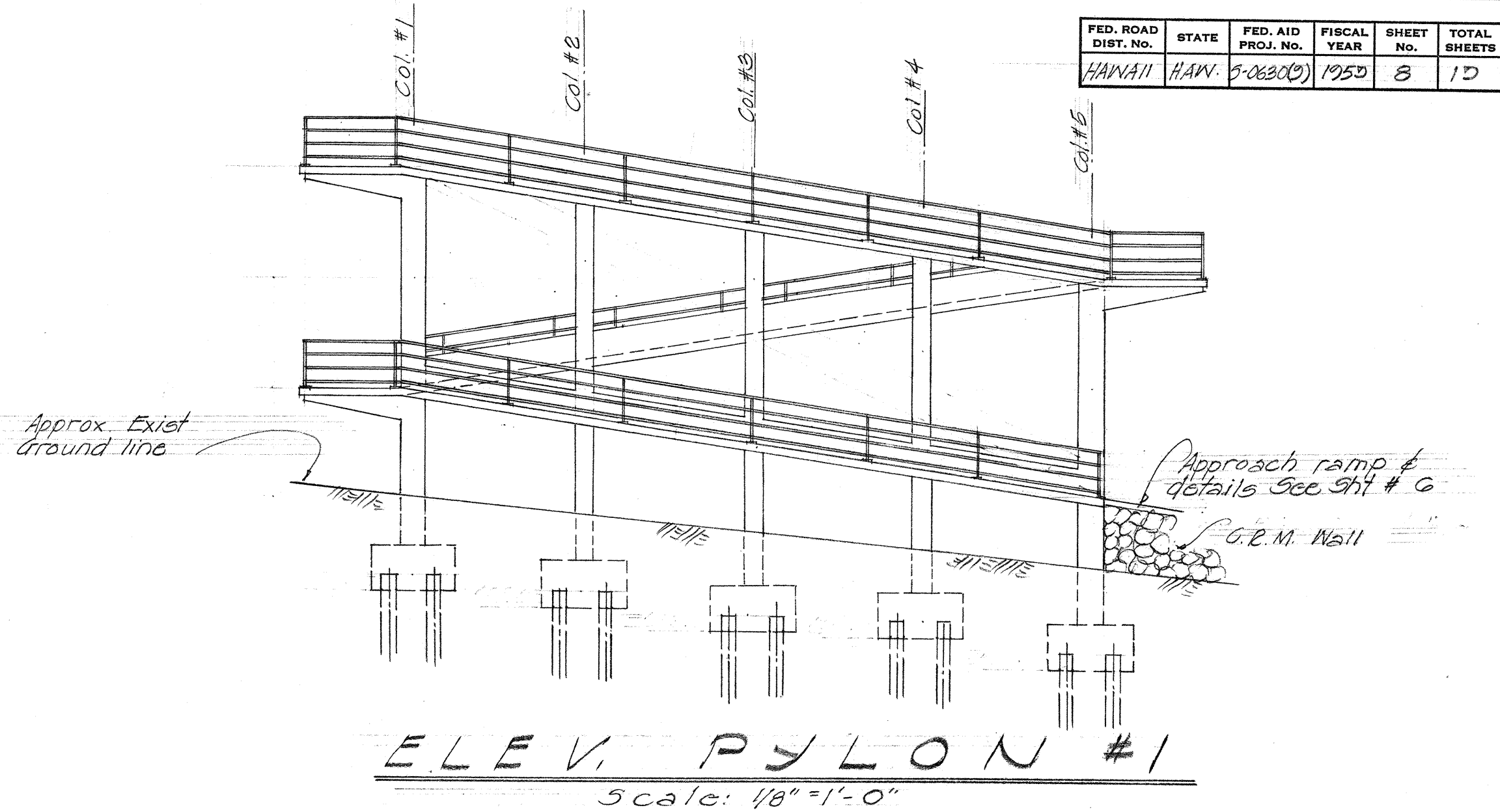
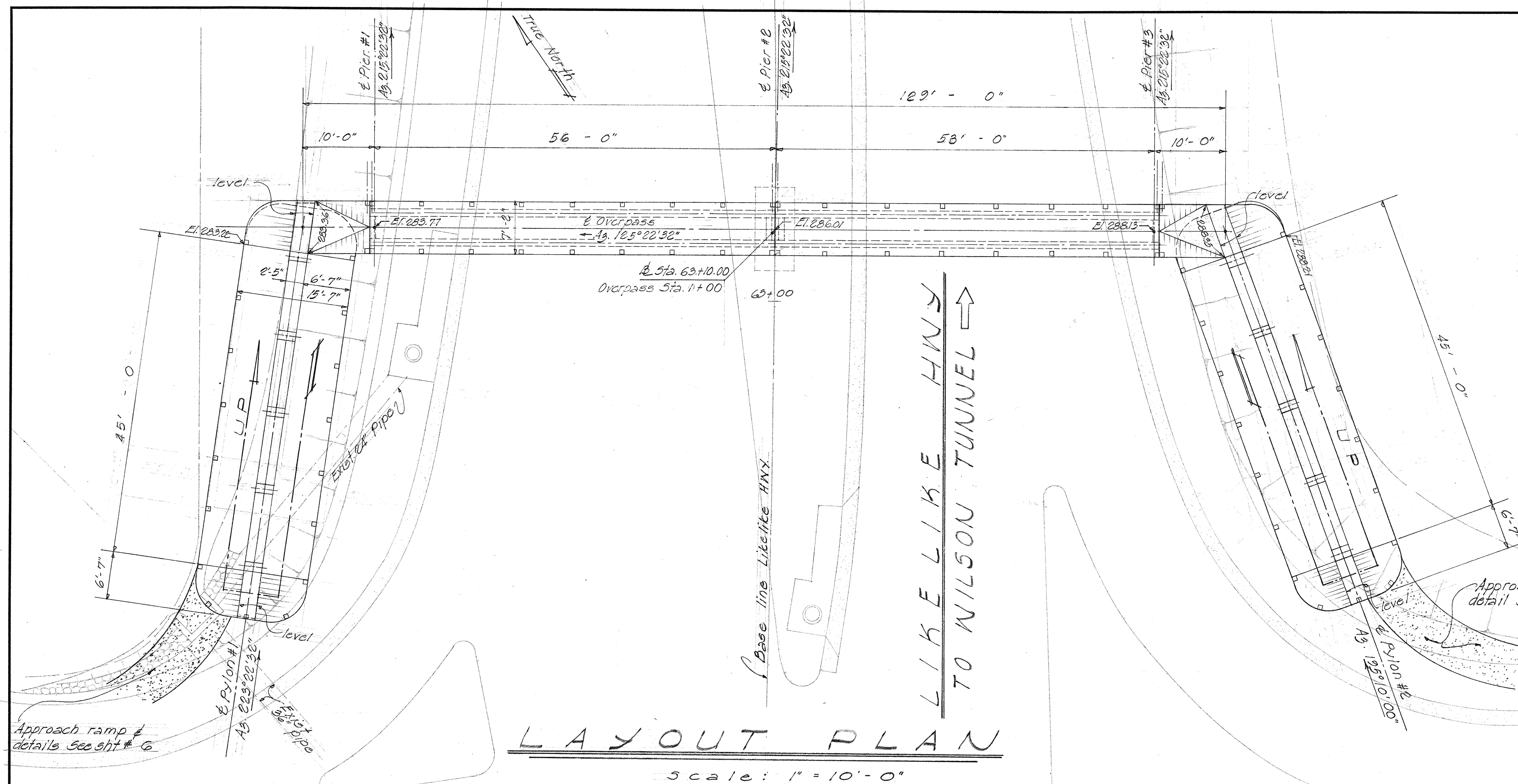


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0630(2)	1959	8	10



ESTIMATED QUANTITIES

Class A-1 Conc.	Lump Sum (186.0 c.y.)	186.0 c.y.
Rein. Steel	Lump Sum (32,170 lbs.)	32,170 lbs.
Structural Exc.	153.0 c.y.	153.0 c.y.
Metal Hand Rail (Type "A")	646 lin. ft.	646 lin. ft.
(Type "B")	245 lin. ft.	245 lin. ft.
Prestressed Conc. Girders	221.0 lin. ft.	221.0 lin. ft.
Prestressed Conc. Piles	1352 lin. ft.	1352 lin. ft.

NOTE!! For pile foundation
see corresponding details & schedule
For General Notes see sheet # 9

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PEDESTRIAN OVERPASS
AT KULA KOEA DRIVE

Likelike Hwy. Proj. 5-0630(2)
NOV. 1959

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES CHECKED BY	
CHECKED BY	

GENERAL NOTES

Prestressed Girder
 P.C. = 4200 psi at transfer
 1 1/2" dia. 7-wire strands
 Tensioning load = 13,900 lbs

Prestressed Piles
 P.C. = 3500 psi at transfer
 3/8" dia. 7-wire strands
 Tensioning load = 14,000 lbs

SPECIFICATION: AASHO

Standard Specifications for Highway Bridges (7th Edition)
 with subsequent additions & modifications

MATERIALS

Concrete - All concrete shall be Class A-1 except concrete for prestressed girders & piles. Concrete for prestressed girders & piles, see Special Provisions.

Admixture - Admixture of "Plastiment" 3 fluid oz. per sack of cement or Pozzolith N#8 1/4 lb. per sack of cement shall be added to all concrete.

CONSTRUCTION METHODS

General - See Standard Specifications.

Welding - All welding shall conform to the latest specifications for Welding Highway & Railway Bridges, Design, Construction and Repair, of the American Welding Society.

Forms - Forms for all exposed surfaces of structure (except prestressed girders & piles) shall be plywood. Forms for prestressed girders shall be made of material that results in a smooth finish & true dimensions as shown in the the plans.

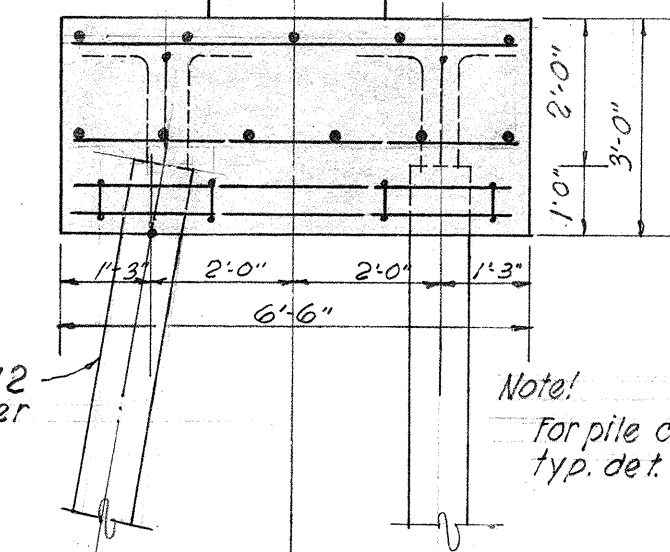
Finish - See Standard Specifications for Finish except as noted on Normal Section on sheet # 10. Top surface of deck, and pylon ramps and landings shall have a rough wearing surface produced by sprinkling 14 lb/sq. ft. of #8, #16 Alloxide or approved equal on fresh concrete and finish with a wood trowel. This item is incidental to Class A-1 concrete and will not be paid for separately. All exposed edges shall be chamfered 3/4" unless otherwise noted.

Repairs to galvanizing on Pipe Railings - See Sect. 44.3 (I) of Standard Specs.

Painting - Two coats of Red Lead and one coat of Aluminum Paint (Paste-Mixing Vehicle) as specified in subarticle 49.2 (B) of Standard Specs. Prepare galvanized surface before painting as specified in subarticle 44.3 (G) 3 of Standard Specs.

PILE SCHEDULE

Location	Col. No.	Pile Cut-off Elev.	Pile Tip Elev.	No. of Piles	Pile length
Pylon #1	1	257.0	231.0	4	26'
	2	256.0	230.0	4	26'
	3	254.5	228.5	4	26'
	4	253.0	227.0	4	26'
	5	251.0	225.0	4	26'
Pylon #2	1	259.5	241.5	4	20'
	2	258.0	240.0	4	20'
	3	257.0	239.0	4	20'
	4	257.5	239.5	4	20'
	5	259.5	241.5	4	20'
Pier #1		260.0	234.0	4	26'
Pier #2		265.0	239.0	6	26'
Pier #3		266.0	240.0	4	26'



ELEVATION A
 TYP AT COLS. #1 thru #5 INCL.
 SCALE: 3/8" = 1'-0"

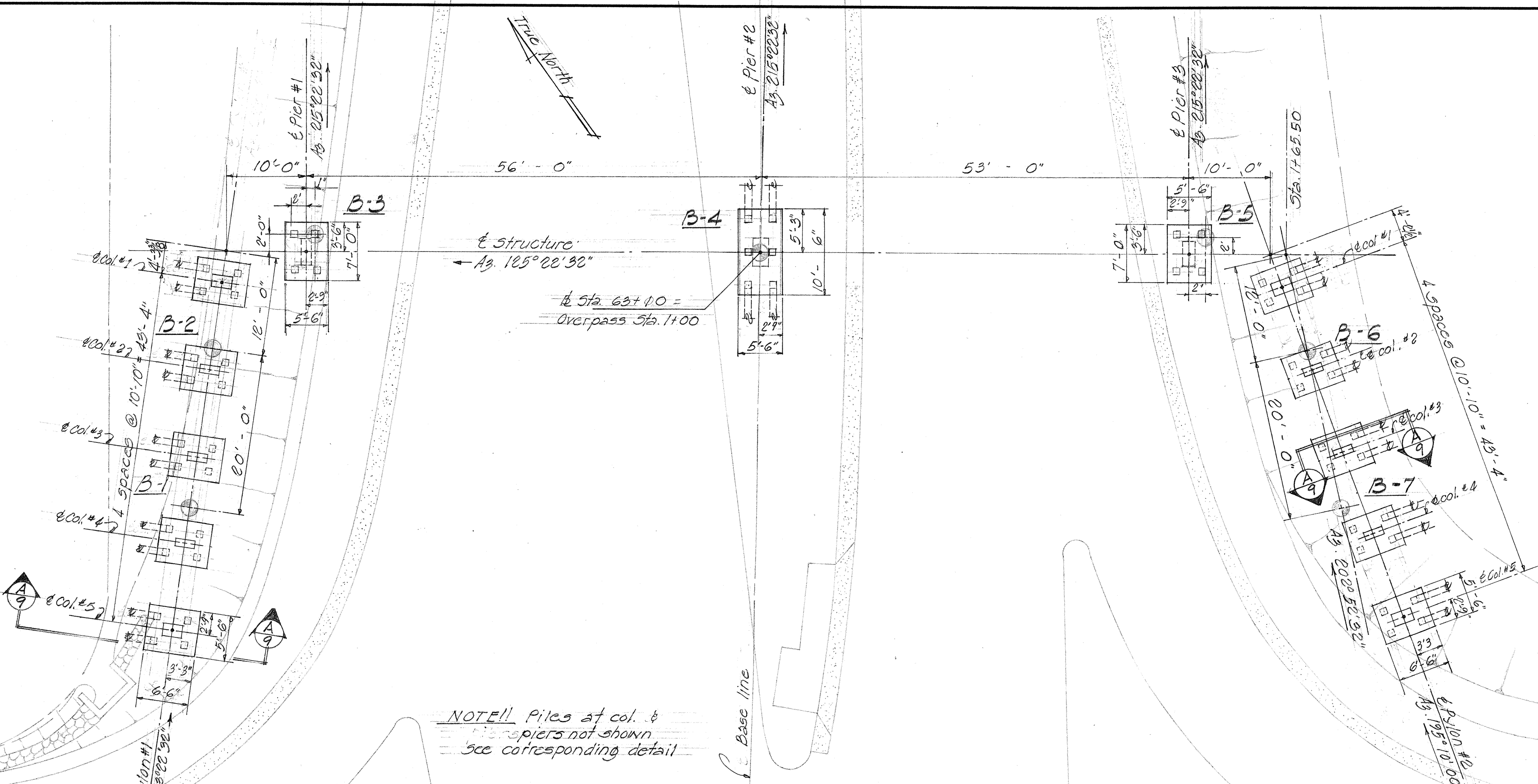
HAWAII STATE HIGHWAY DEPARTMENT
 STATE OF HAWAII

**PEDESTRIAN OVERPASS
 AT KULA KOLEA DRIVE**

LIKELIKE HWY Proj. 5-0630(9)

NOV. 1959

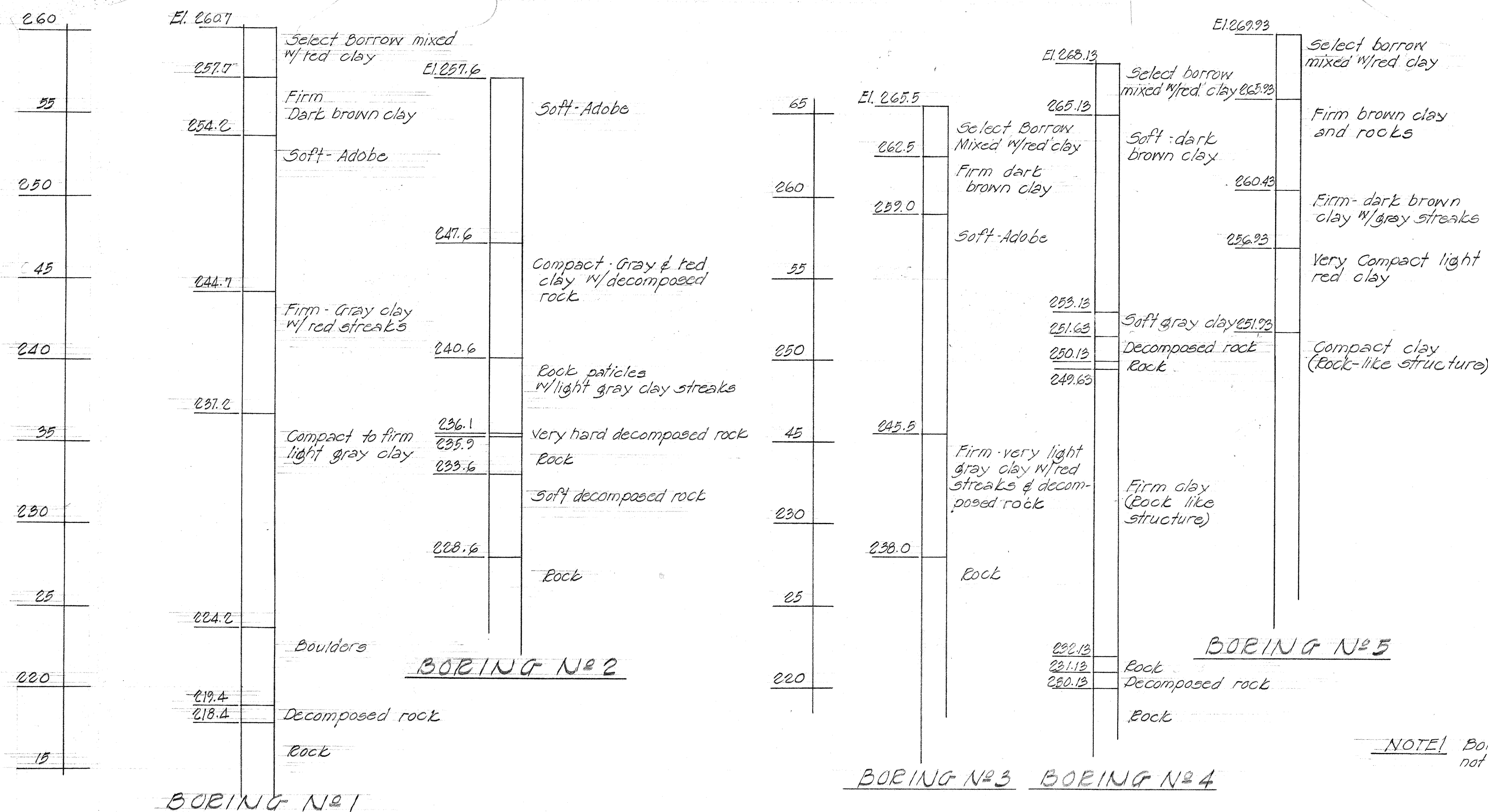
SHEET NO. 5 OF 10 SHEETS

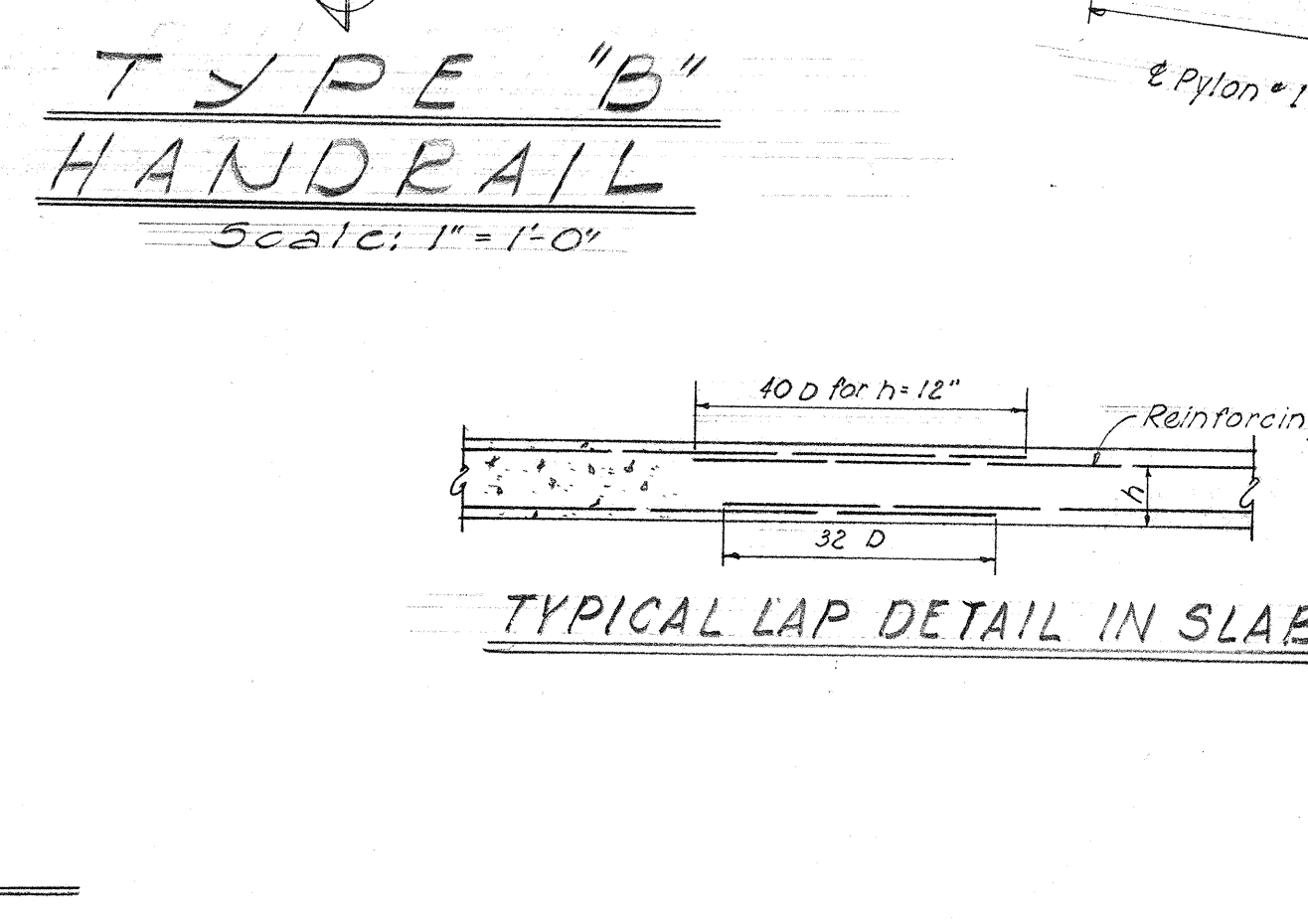
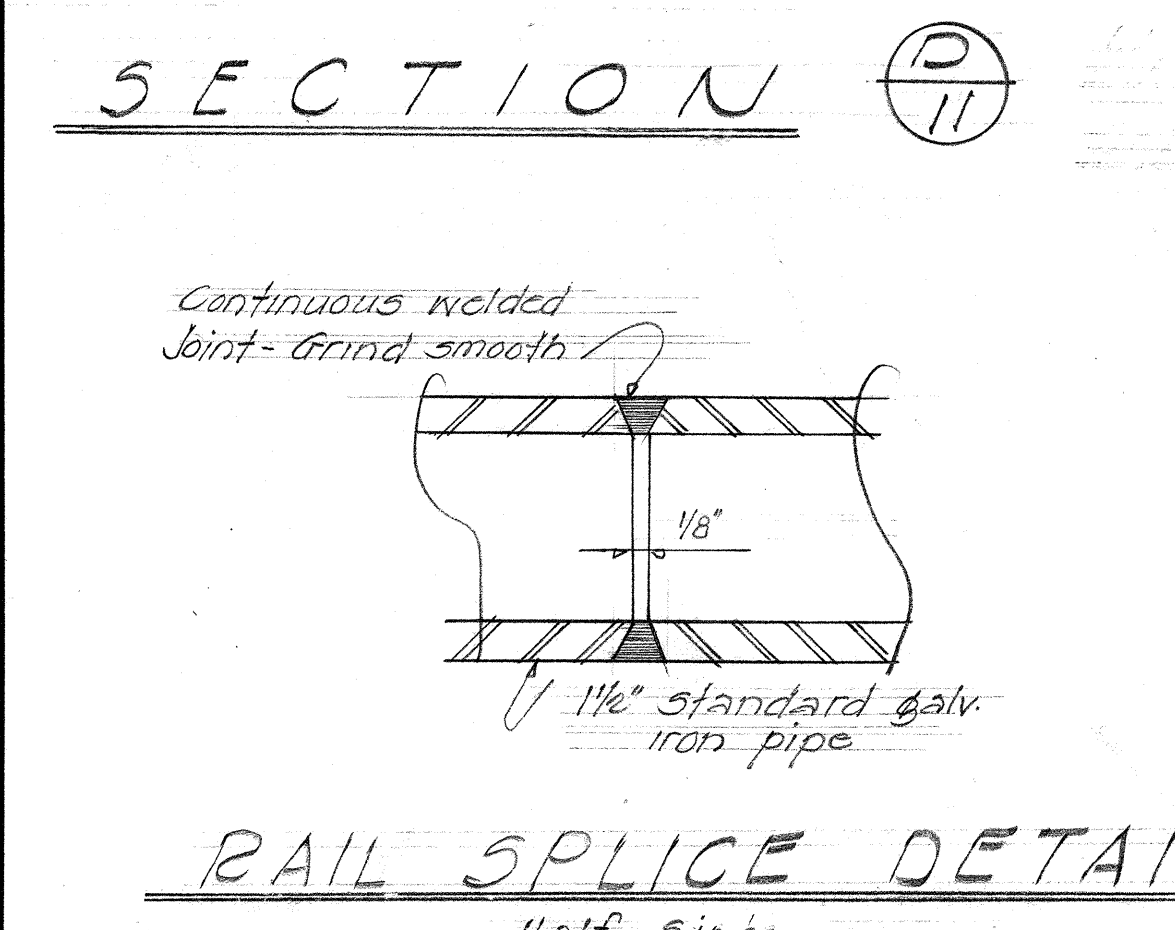
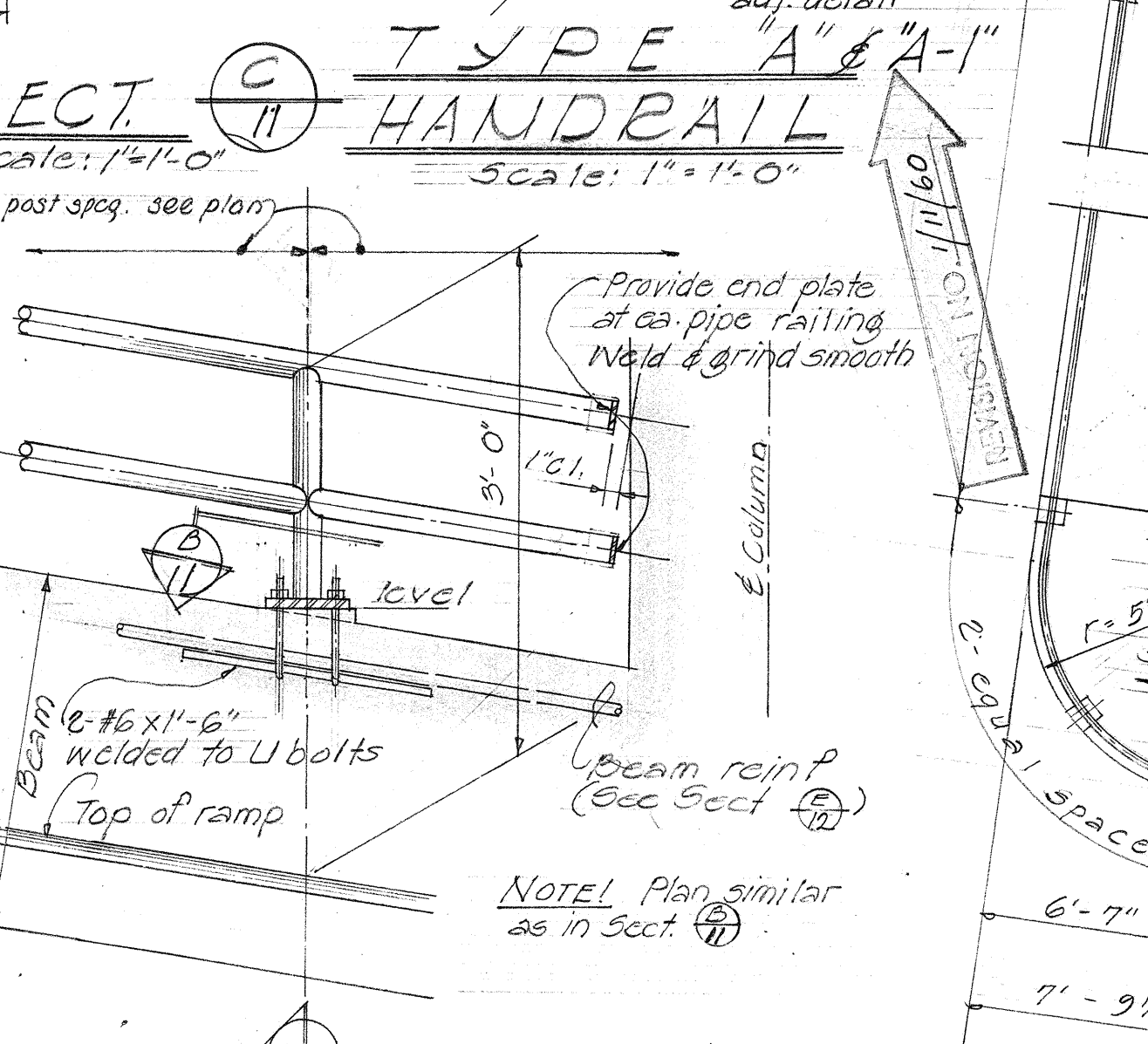
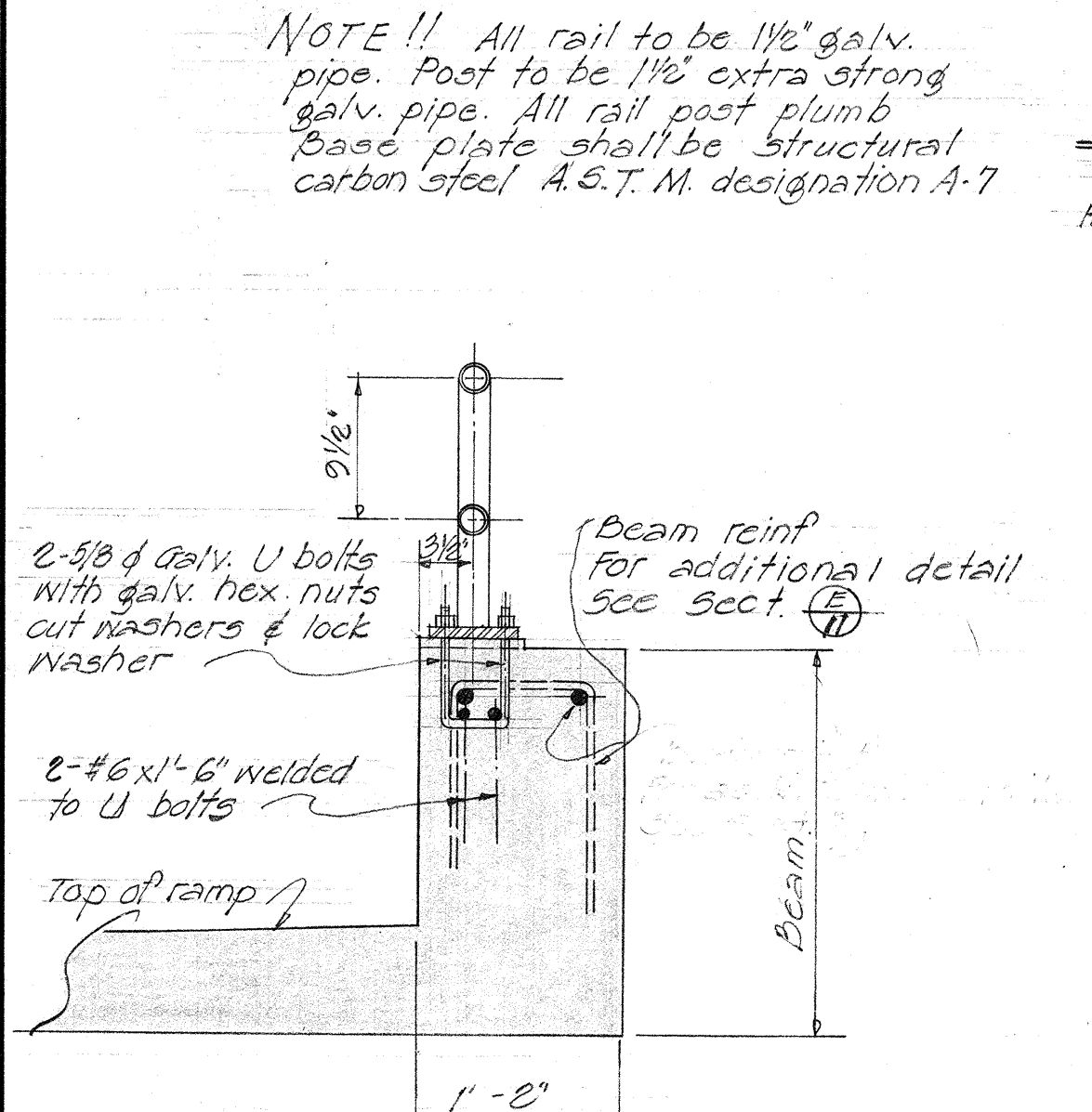
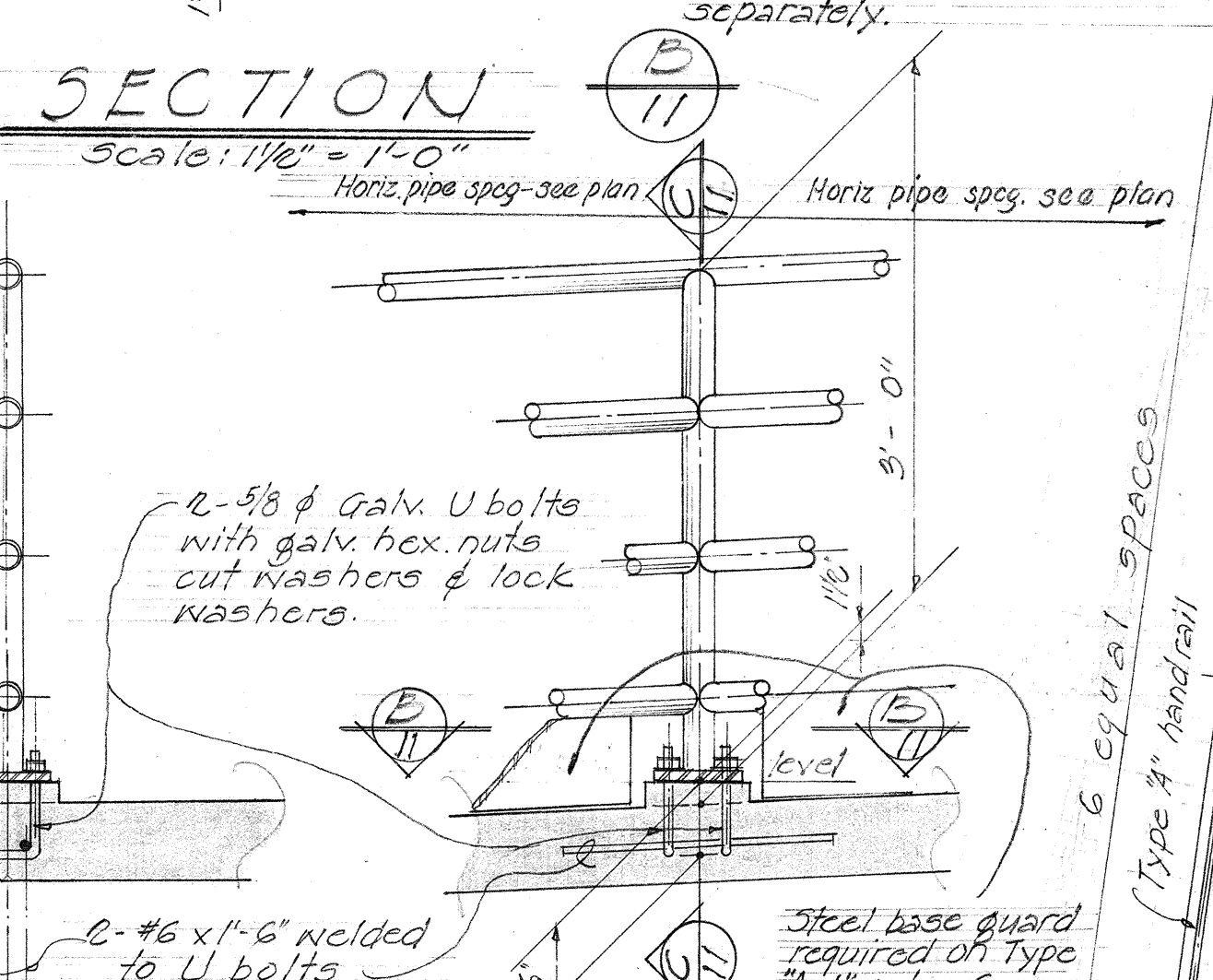
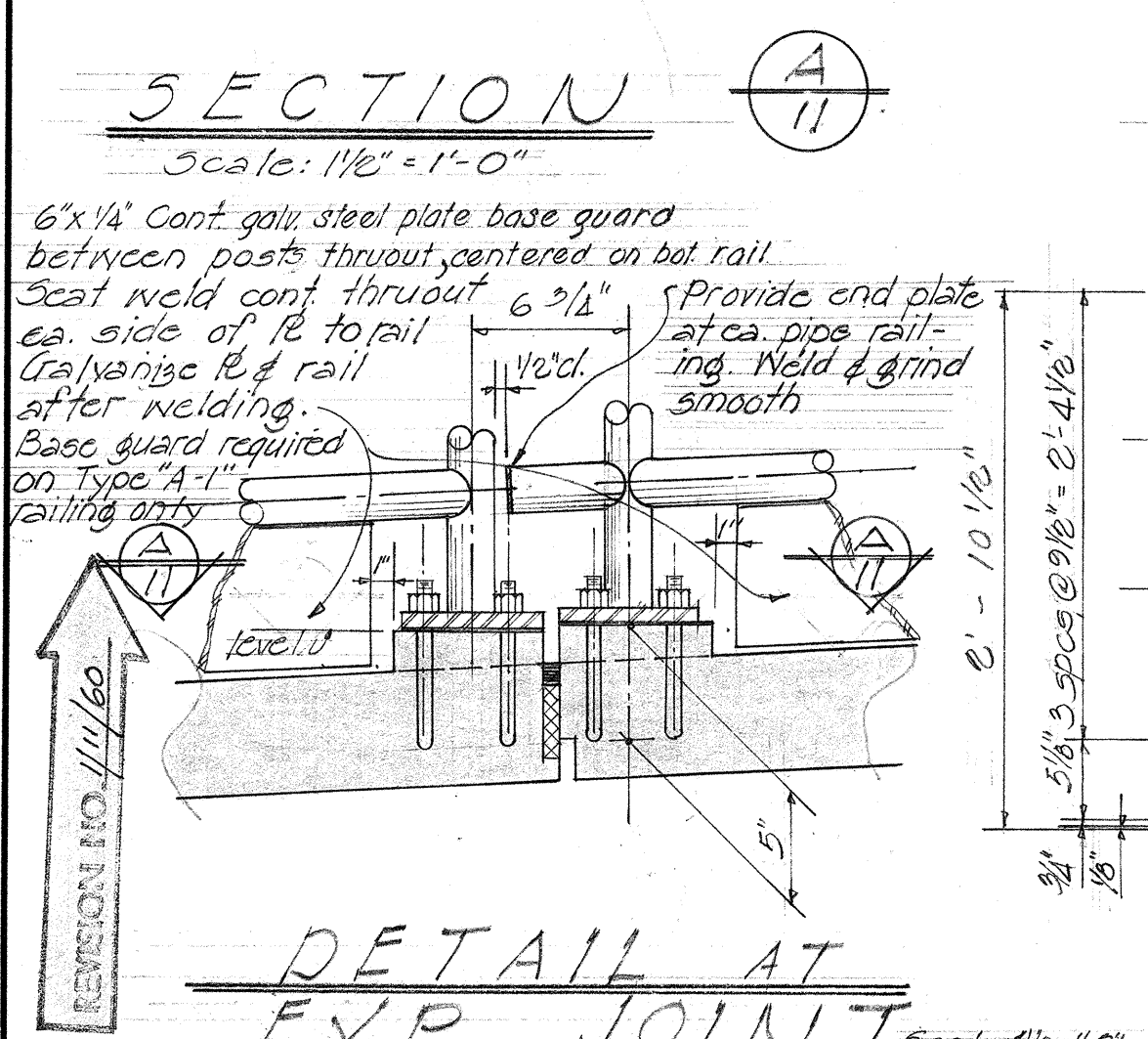
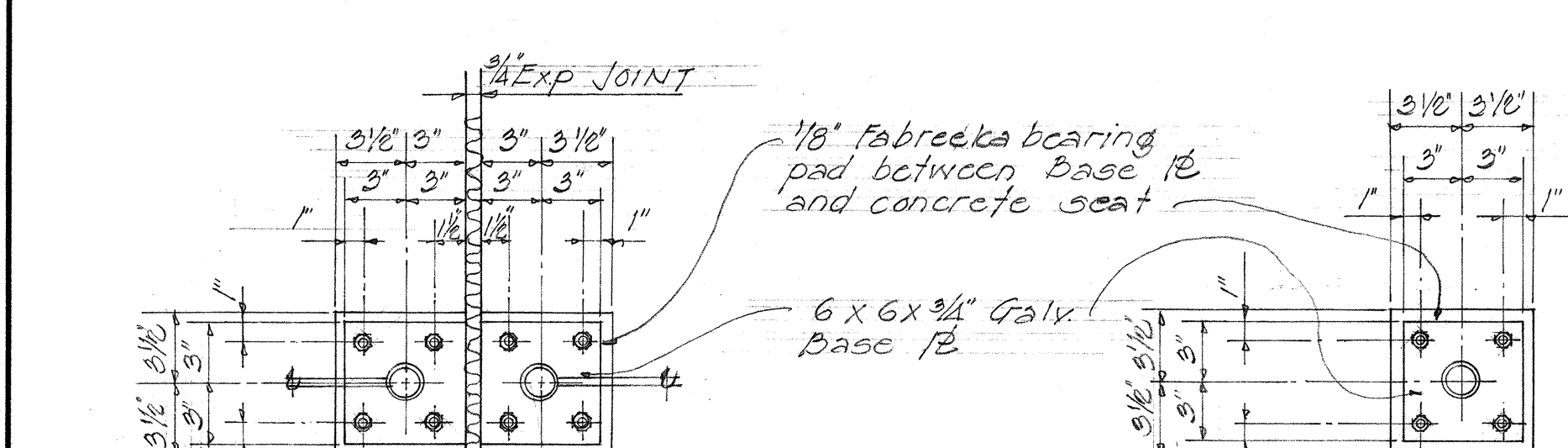


NOTE: Piles at col. & piers not shown
 See corresponding detail

FOUNDATION PLAN

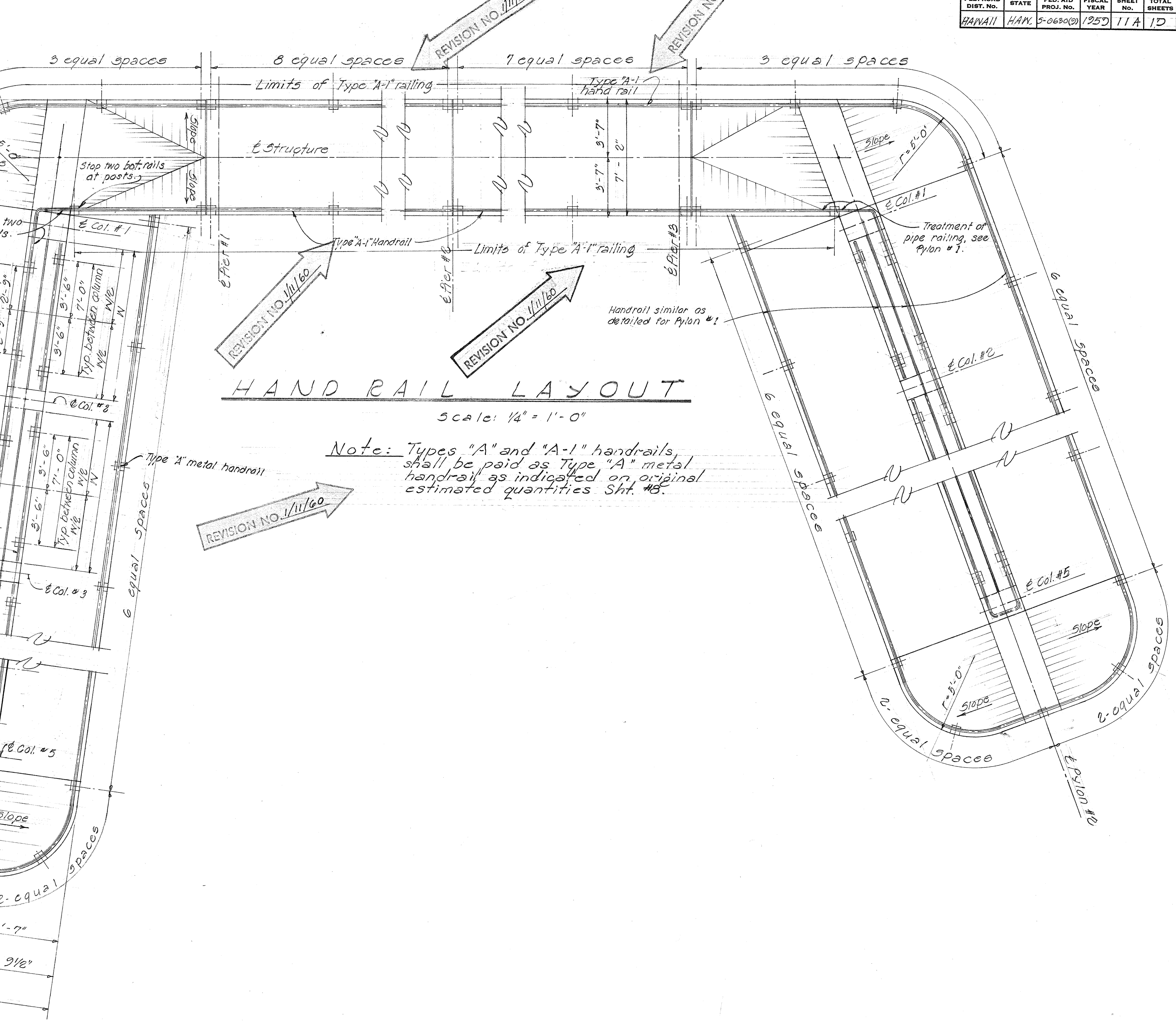
Scale: 1" = 10'-0"



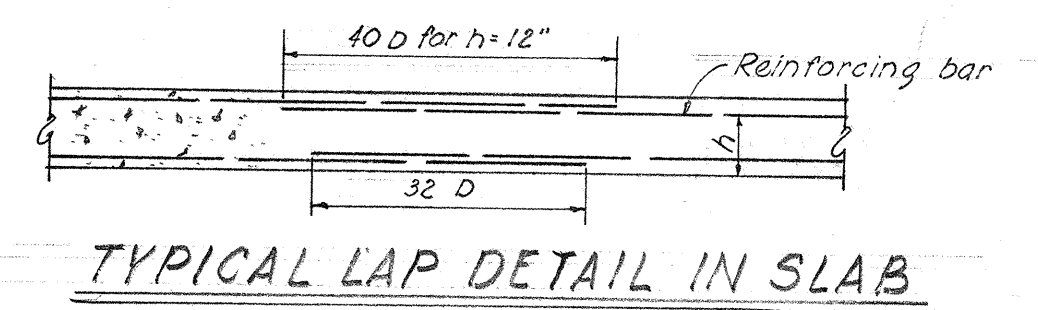


NOTE! Shape intermediate rail into post & full weld. Rail post to be shaped into continuous top rail. Welds on pipe shall be ground smooth. All pipe railings, post & accessories shall be galvanized.

NOTE! 6"x1/4" cont. steel plate base guard, 1/8" Fabreca bearing pad, 6"x6"x1/4" base plate, 3/8" U bolts hex. nuts, cut washers, lock washer & #6 x 1'-6" bars shall be incidental to hand-rail & shall not be paid separately.



Note: Types "A" and "A-1" hand-rails, shall be paid as Type "A" metal handrail as indicated on original estimated quantities Sht. #8.

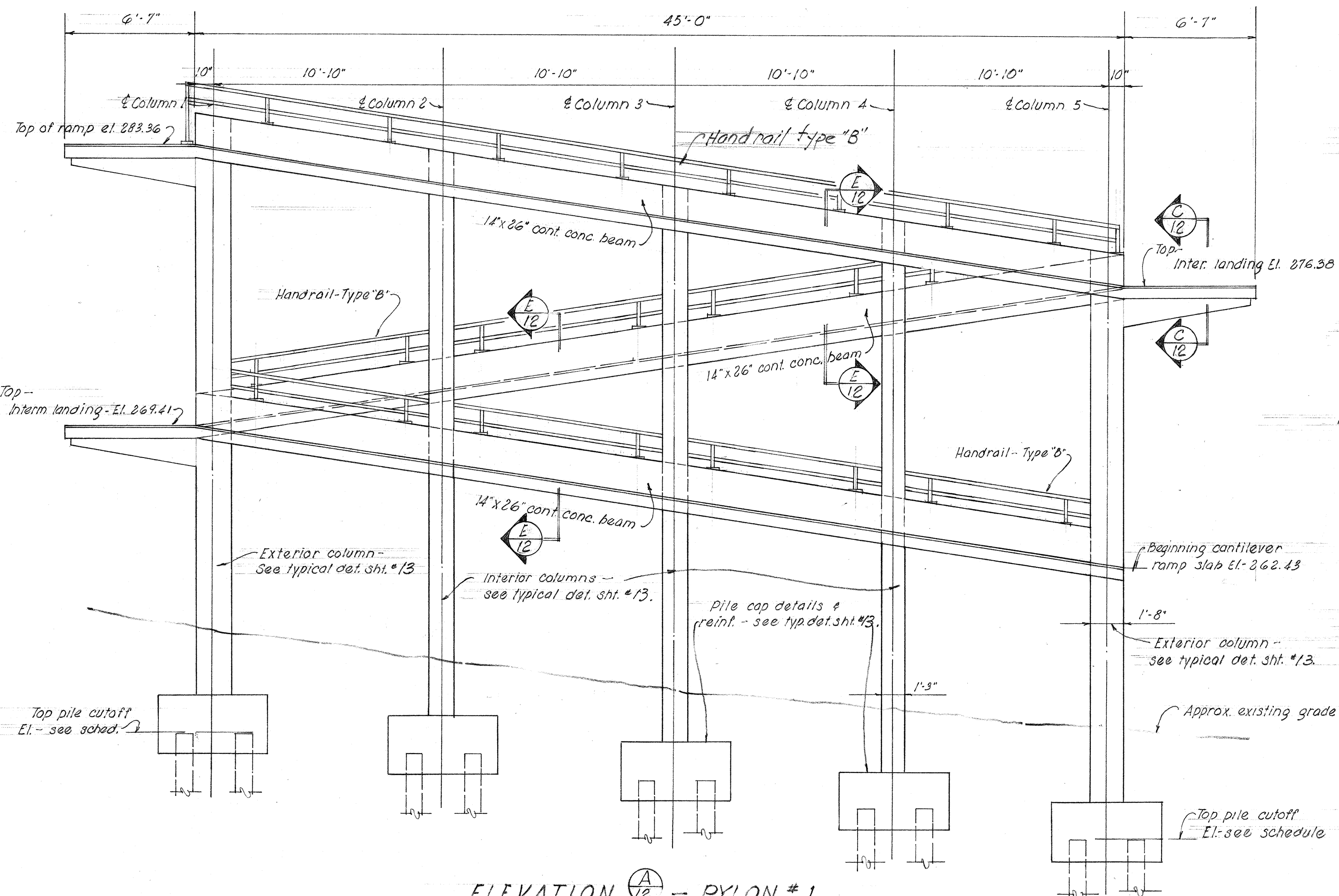


RAIL SPLICE DETAIL
Half size

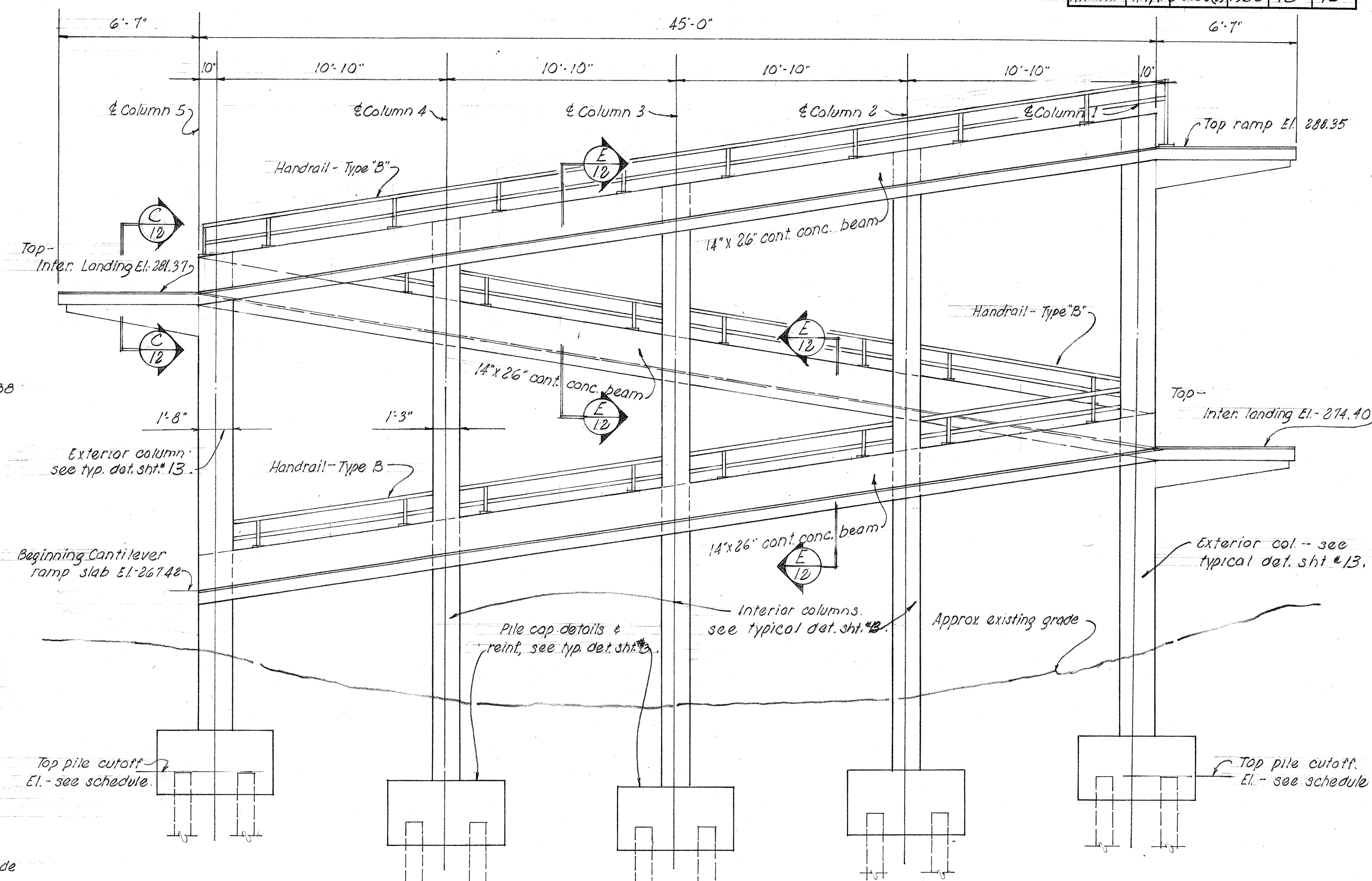
This sheet shall supercede sheet 11, dated Nov. 1959

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PEDESTRIAN OVERPASS
AT KULA KOLEA DRIVE
LIKELIKE HWY Proj. 5-0630(9)
Rev. Jan. 11 1960

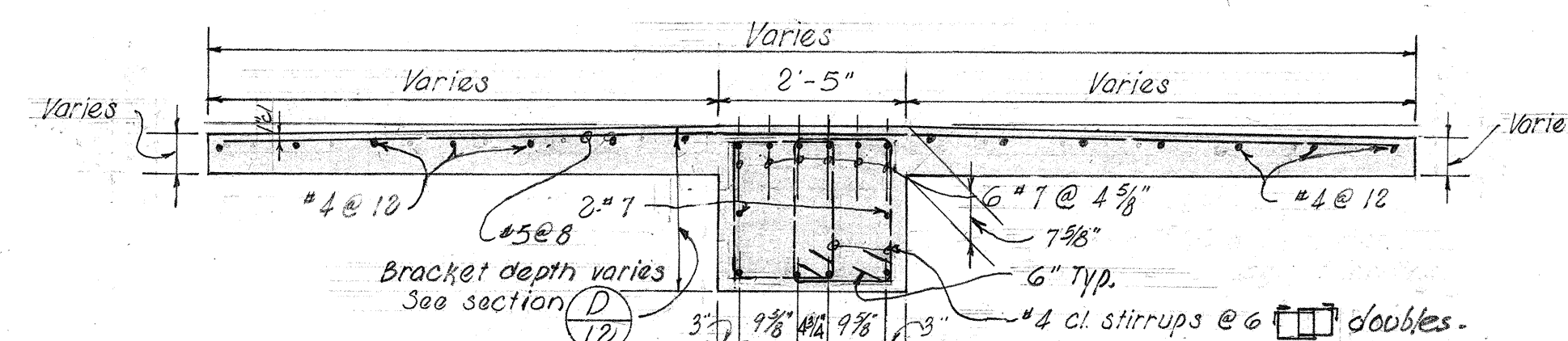
Note:
For type "B" railing & rail-post location & details, see sh. # 11



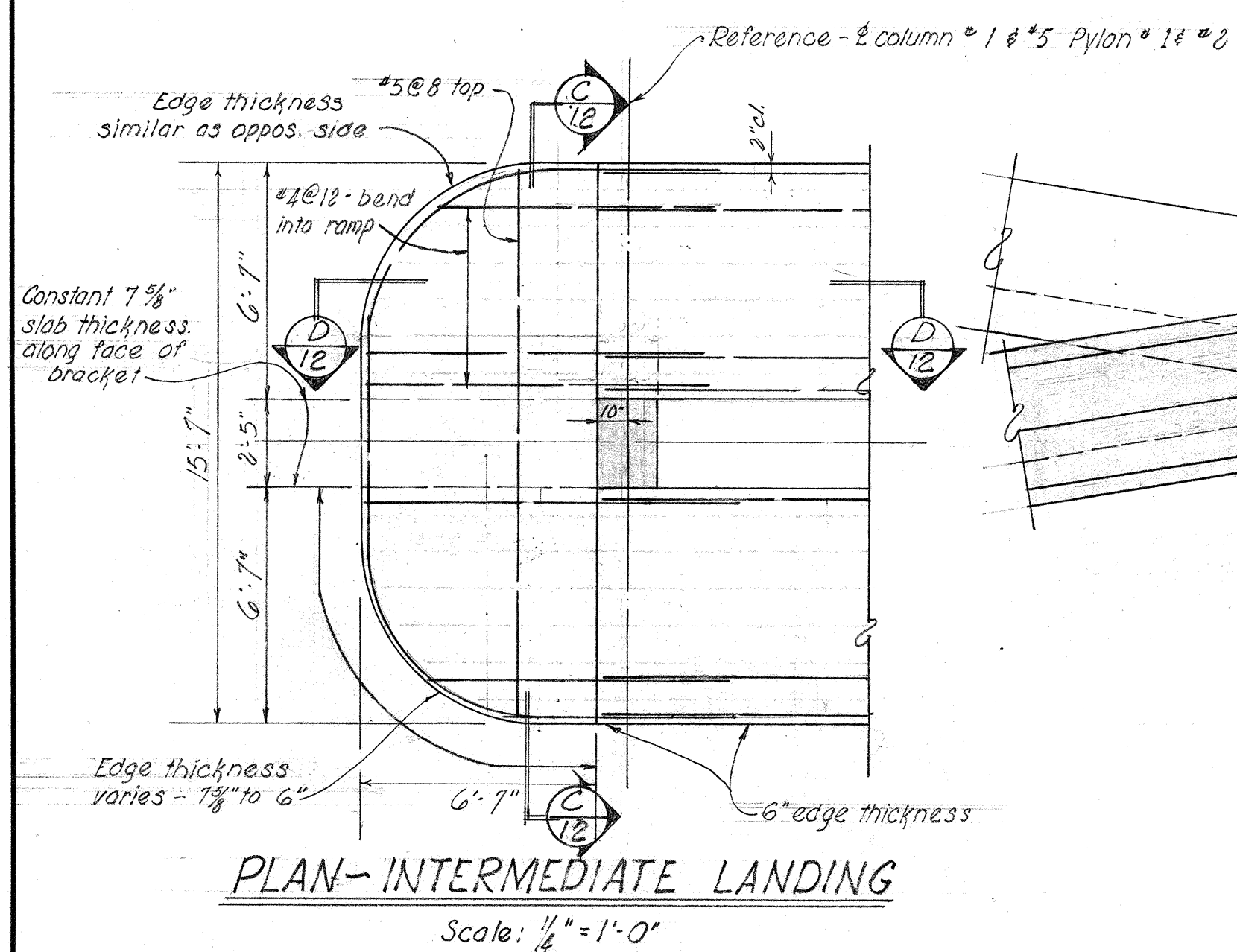
ELEVATION A-2 - PYLON #1
Scale: 1/4" = 1'-0"



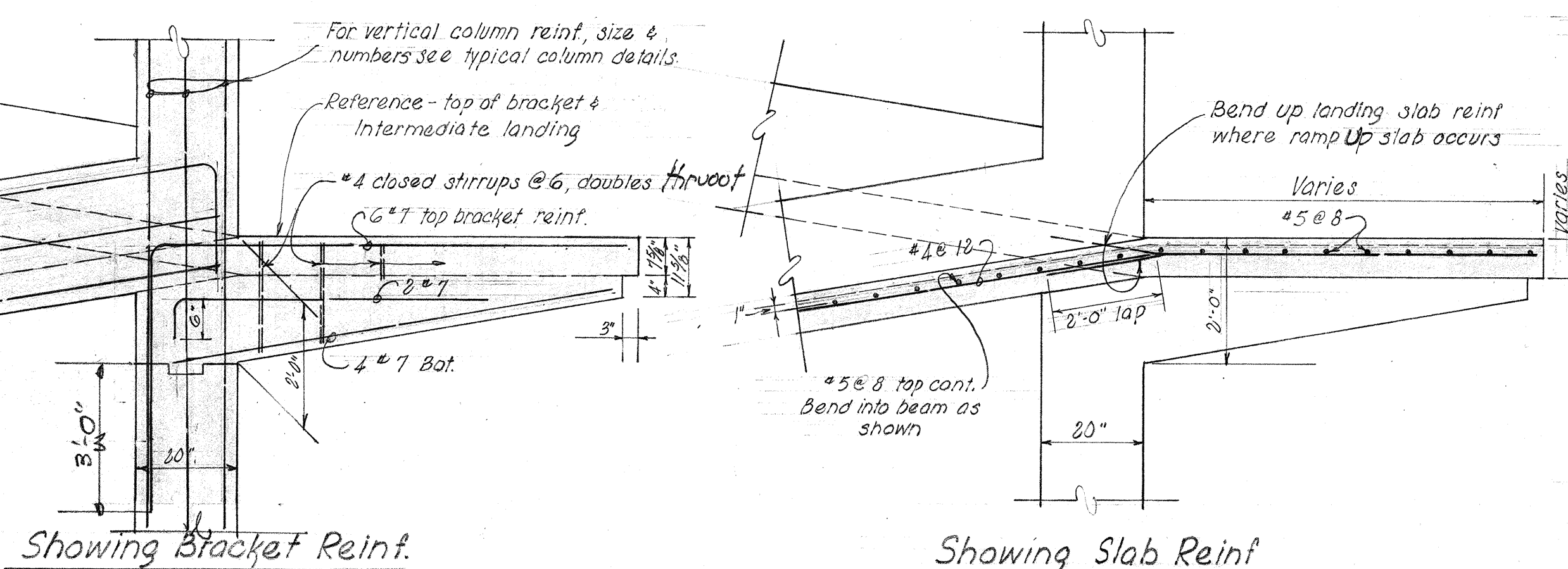
ELEVATION B-2 - PYLON #2
Scale: 1/4" = 1'-0"



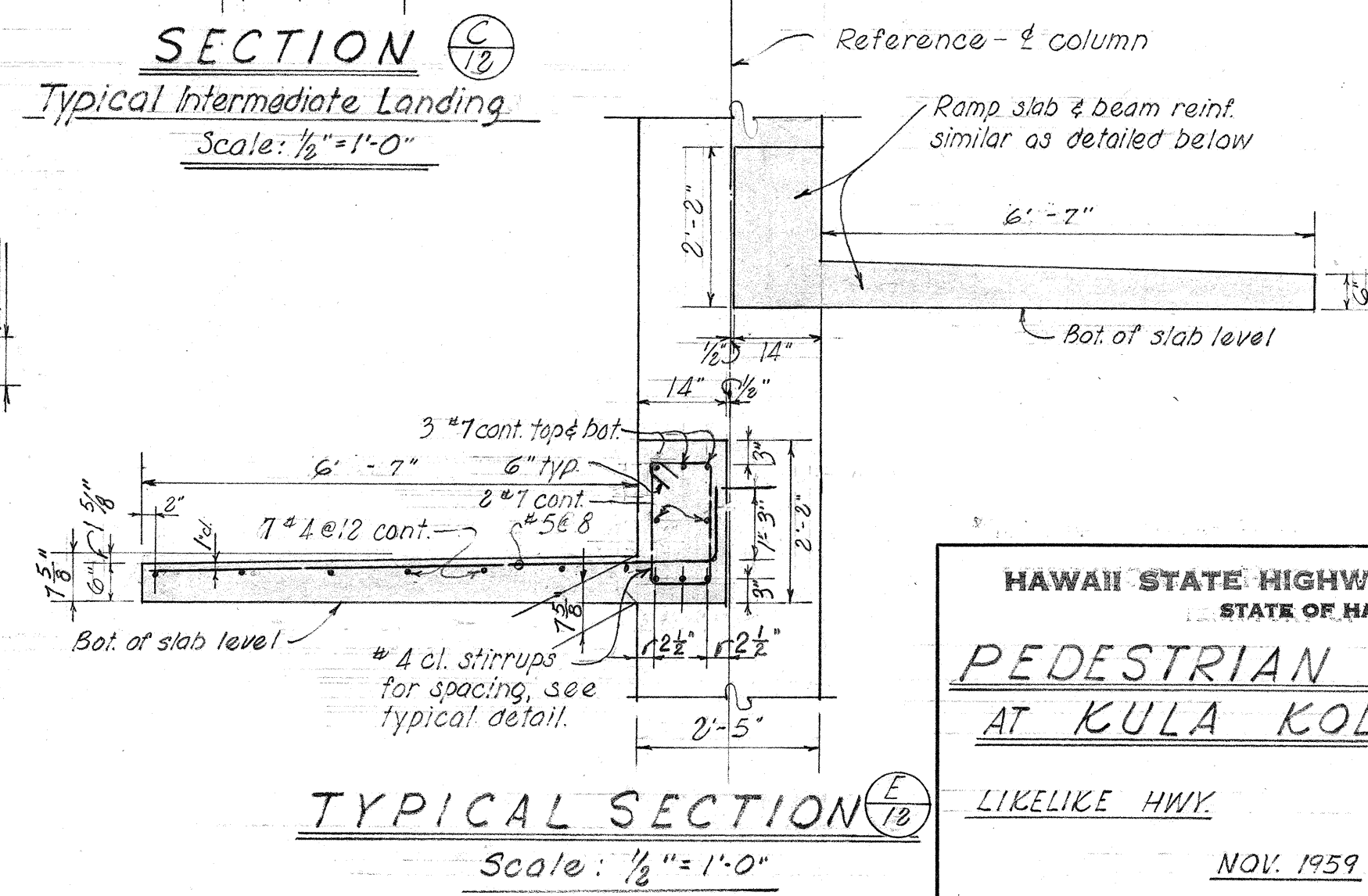
SECTION C-18
Typical Intermediate Landing
Scale: 1/2" = 1'-0"



PLAN - INTERMEDIATE LANDING
Scale: 1/4" = 1'-0"

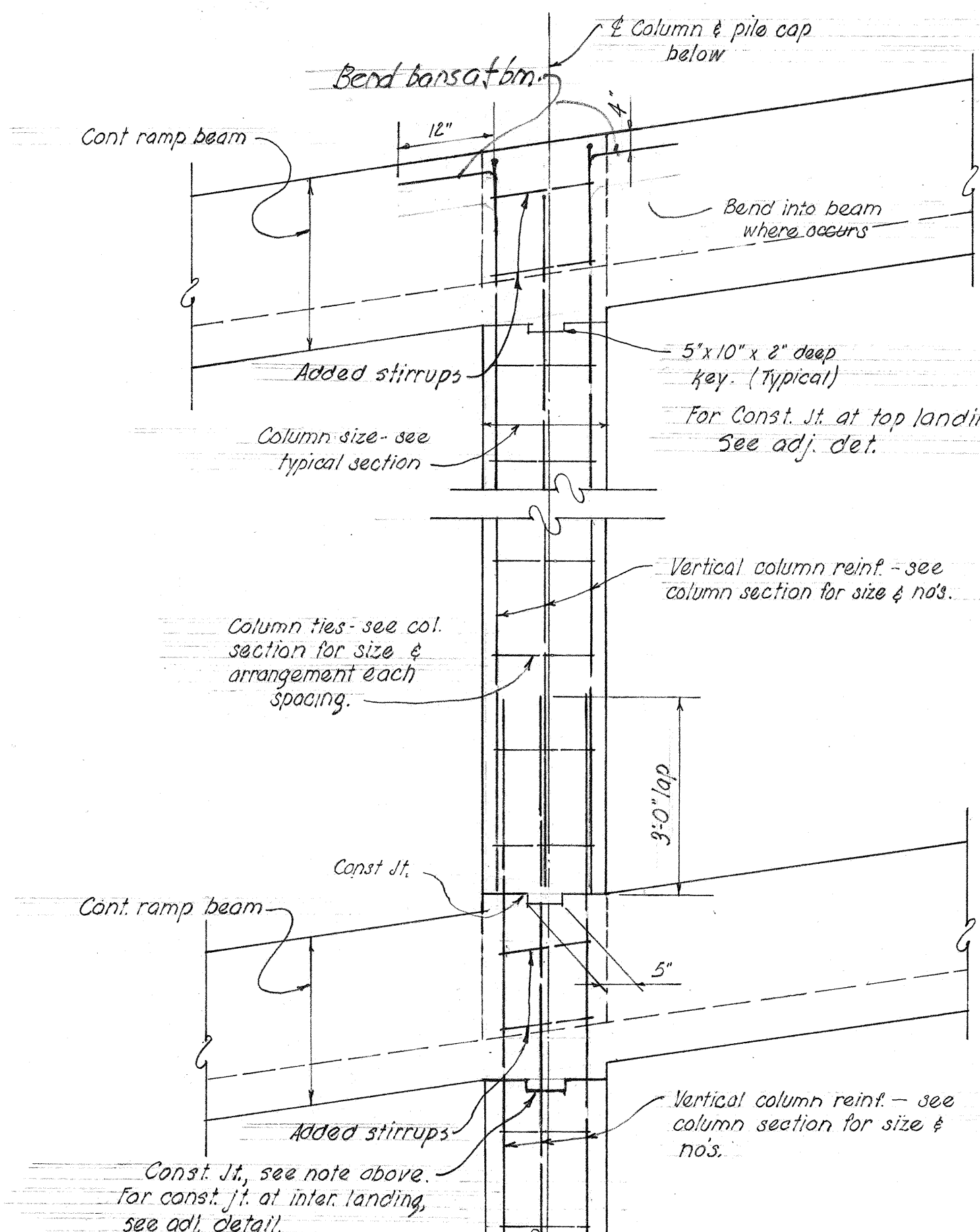


SECTION D-12
Scale: 1/2" = 1'-0"

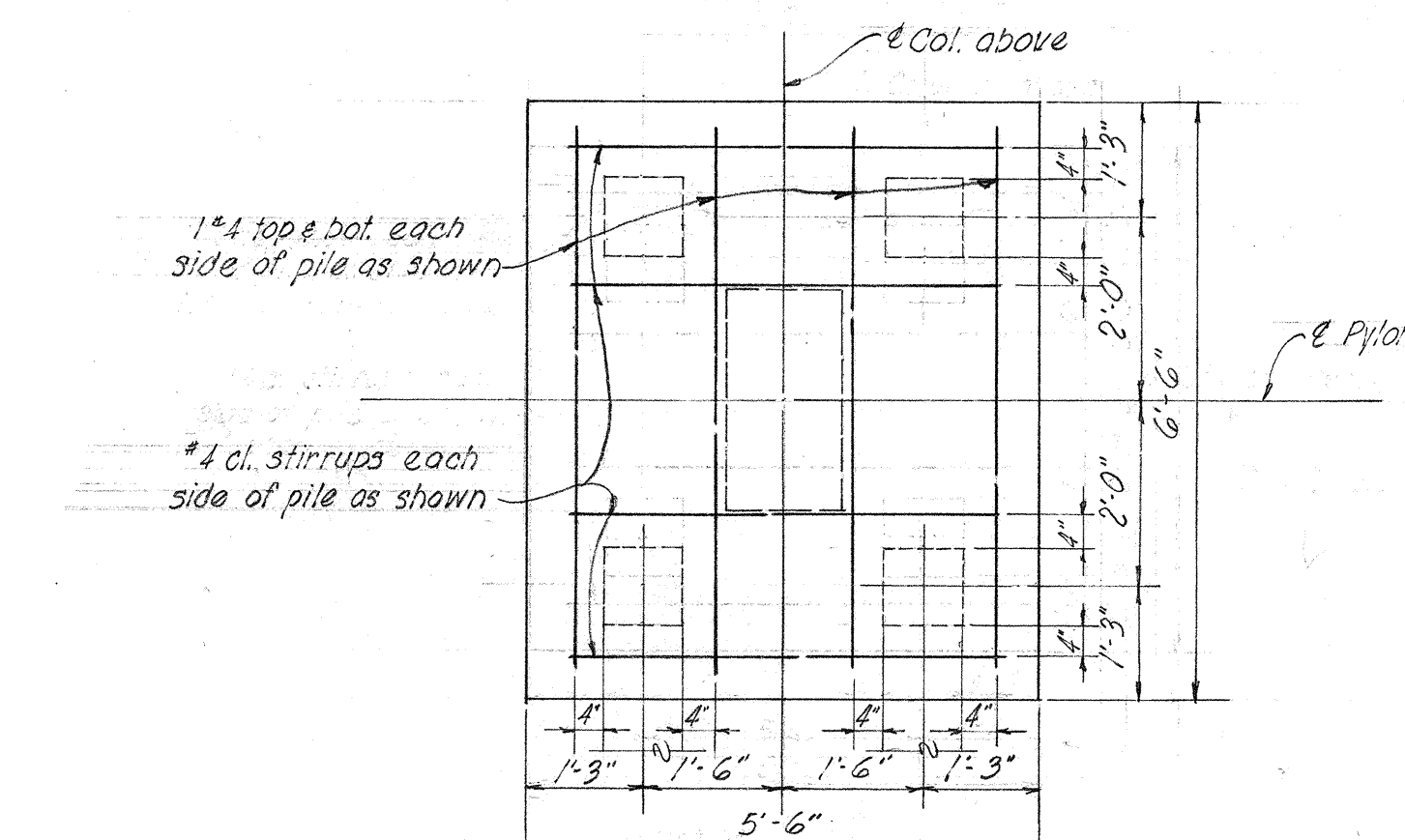


TYPICAL SECTION E-18
Scale: 1/2" = 1'-0"

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
**PEDESTRIAN OVERPASS
AT KULA KOLEA DRIVE**
LIKELIKE HWY. PROJ. S-0630(9)
NOV. 1959

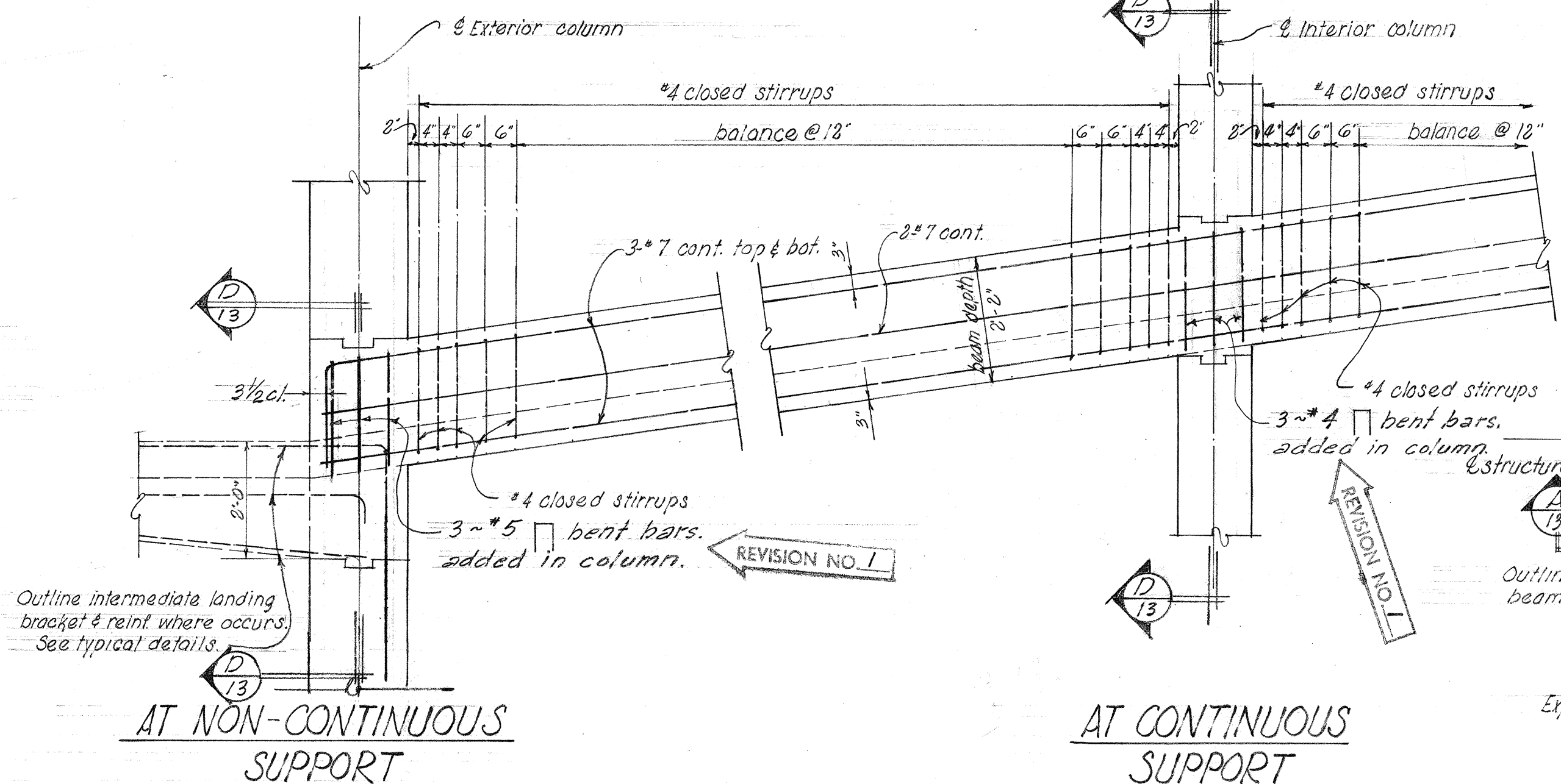


TYPICAL COLUMN DETAIL

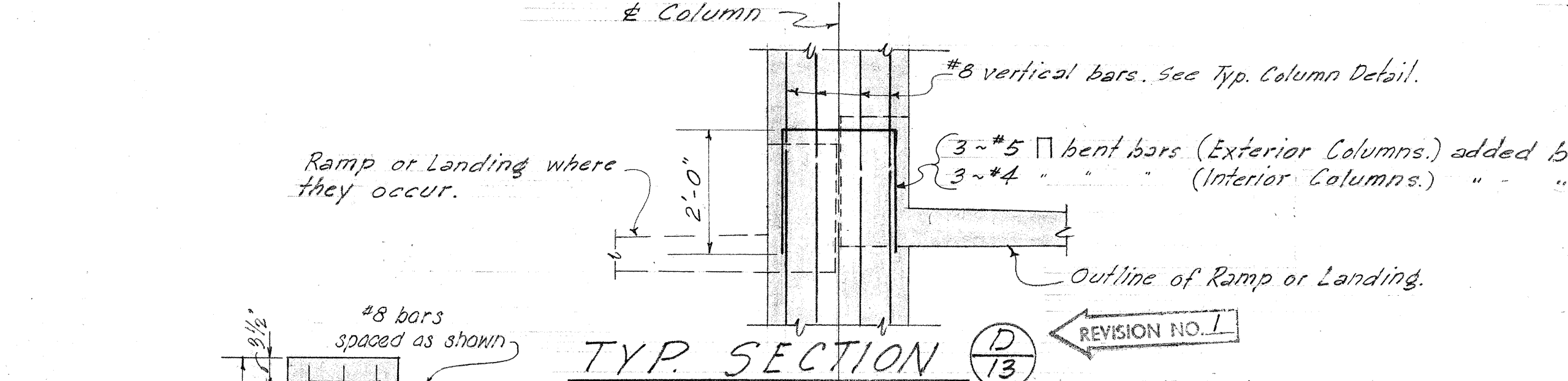


PLAN-PILE CAP (SHOWING PILE TIES)

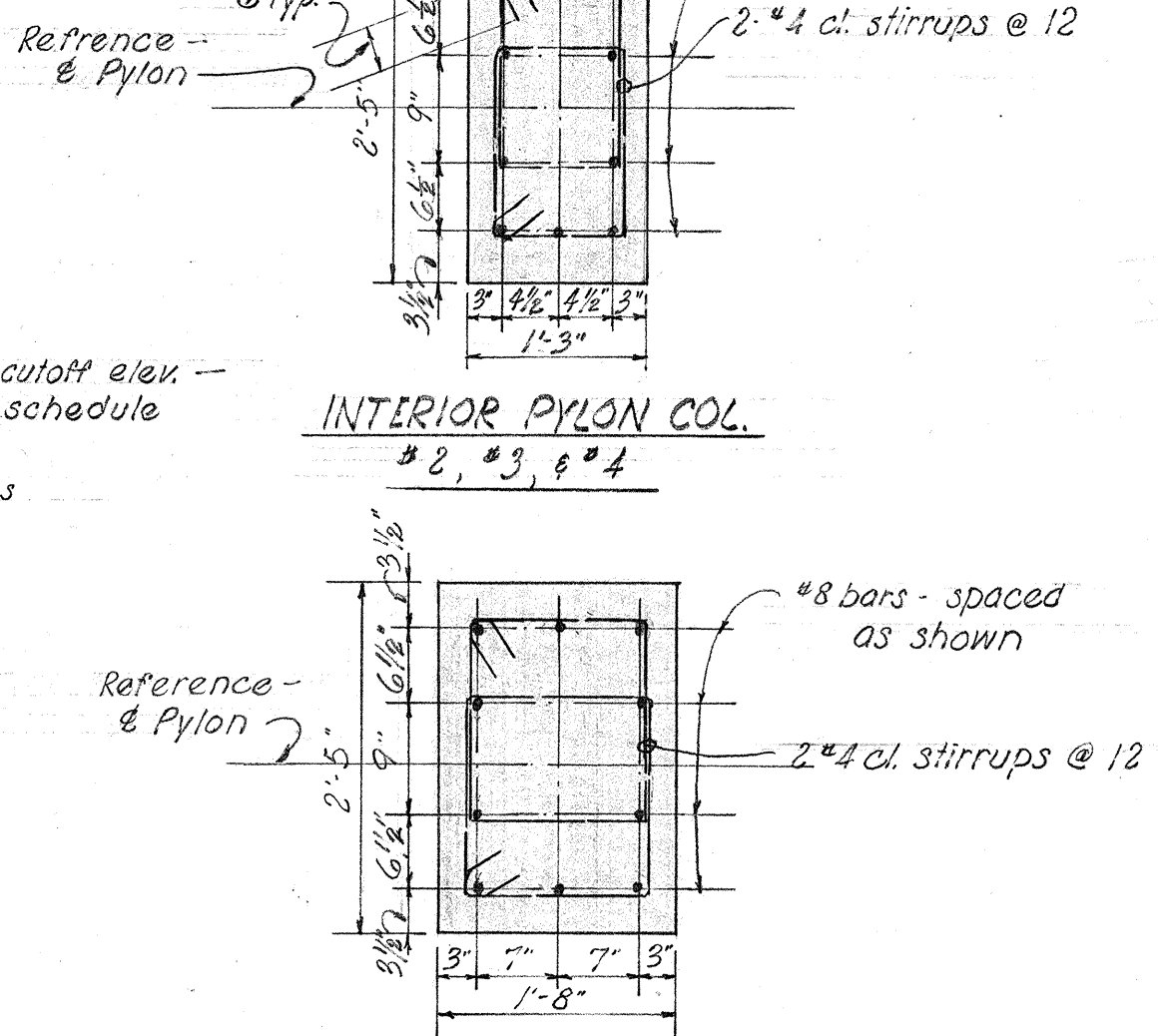
SCALE: 1/4" = 1'-0"



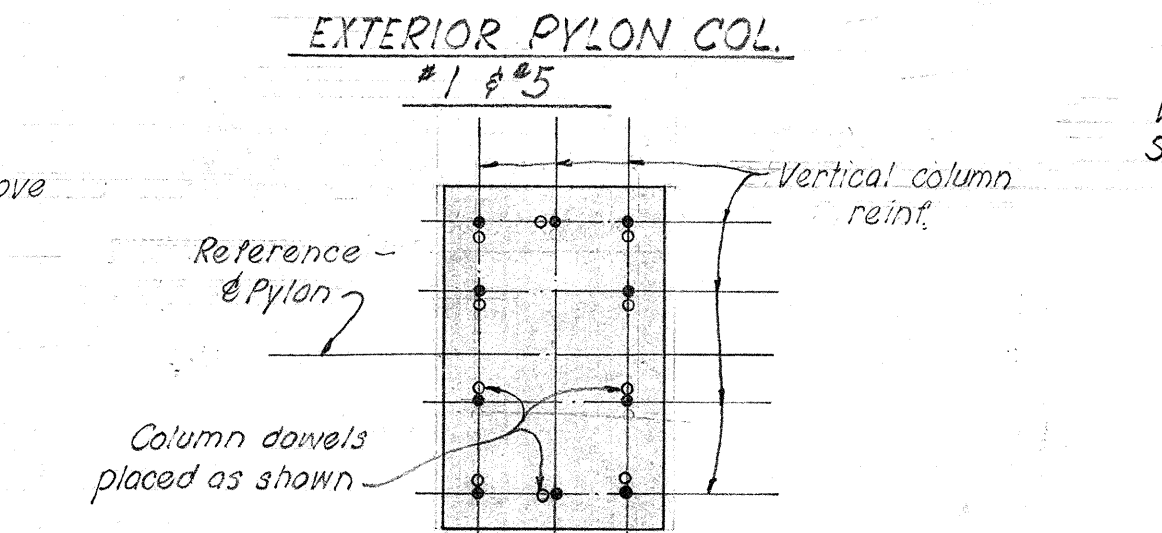
TYPICAL CONTINUOUS RAMP BEAM DETAIL



TYP. SECTION



INTERIOR PYLON COL. #2, #3, #4

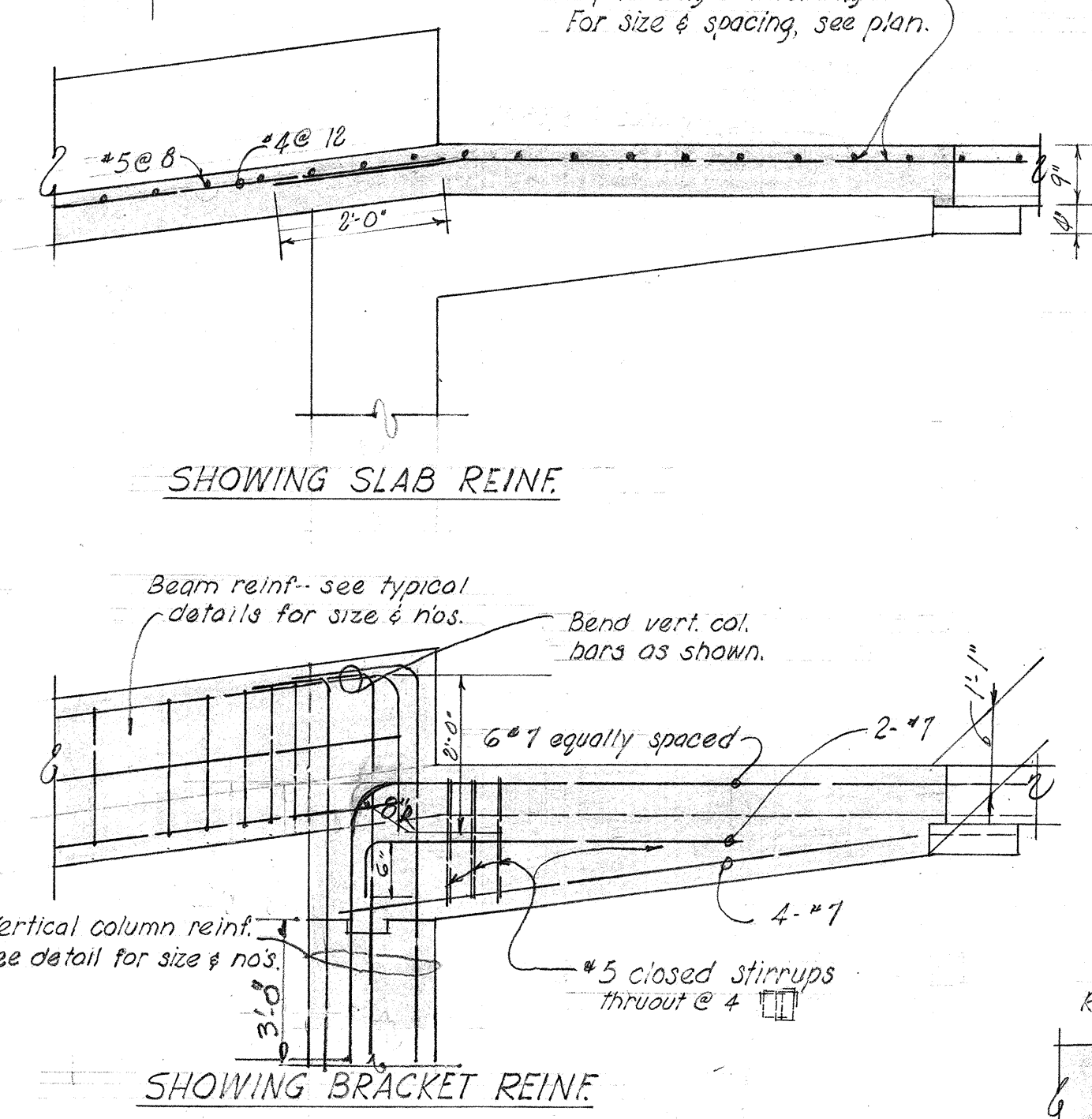


EXTERIOR PYLON COL. #1, #5

TYPICAL COLUMN DOWELS LOCATION AT FOOTING

TYPICAL COLUMN SECTION

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

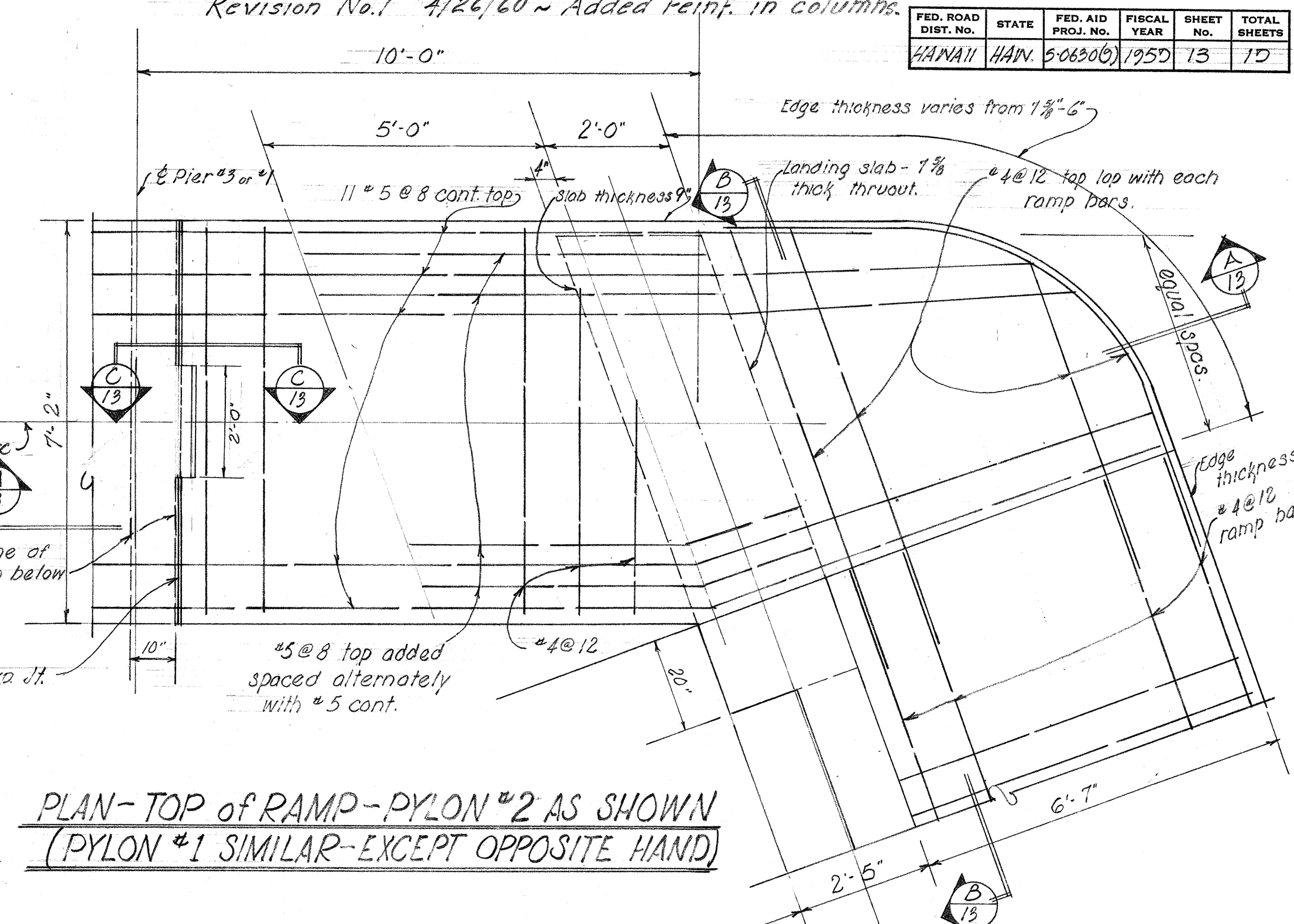


SHOWING SLAB REINF.

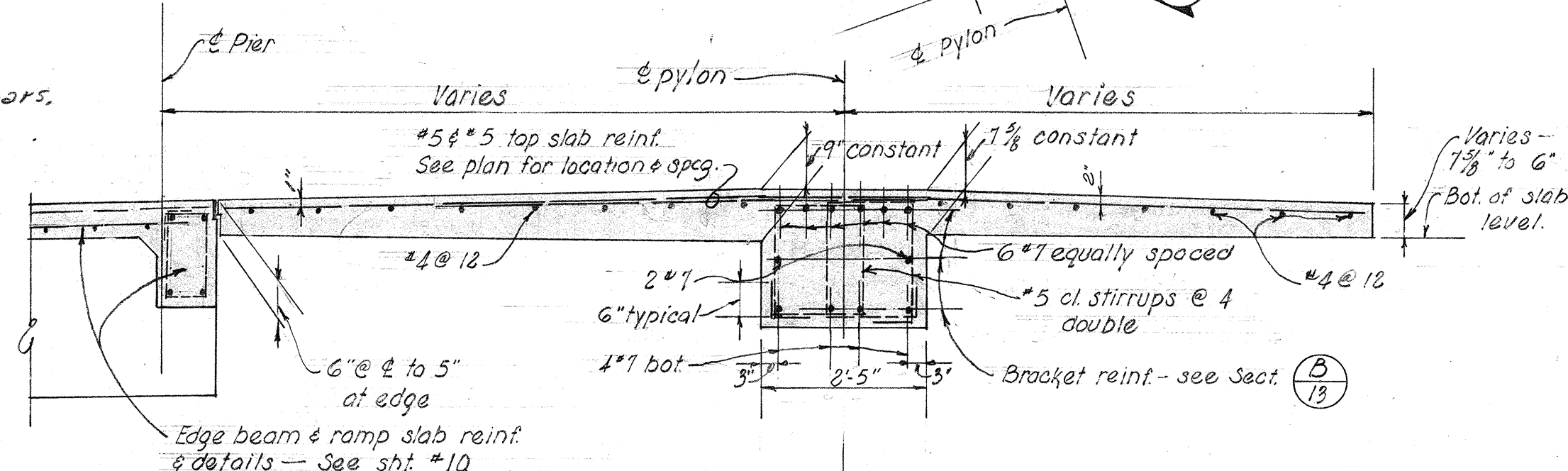
SHOWING BRACKET REINF.

SECTION B

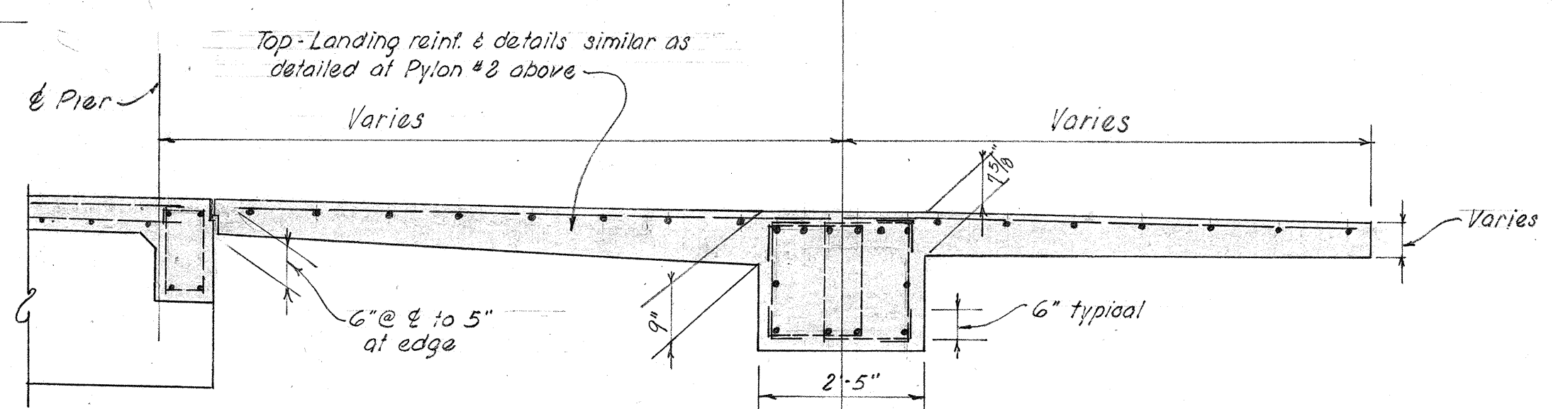
Scale: 1/2" = 1'-0"



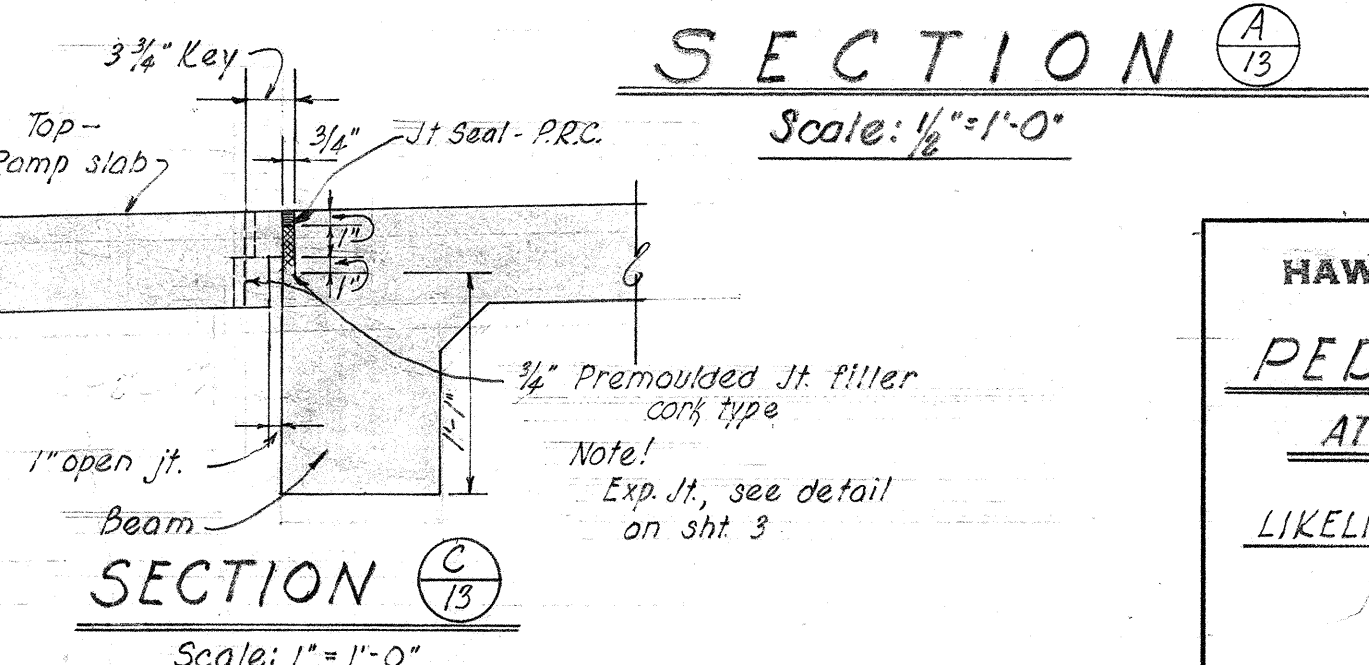
PLAN- TOP of RAMP-PYLON #2 AS SHOWN (PYLON #1 SIMILAR-EXCEPT OPPOSITE HAND)



AT PYLON #2



AT PYLON #1

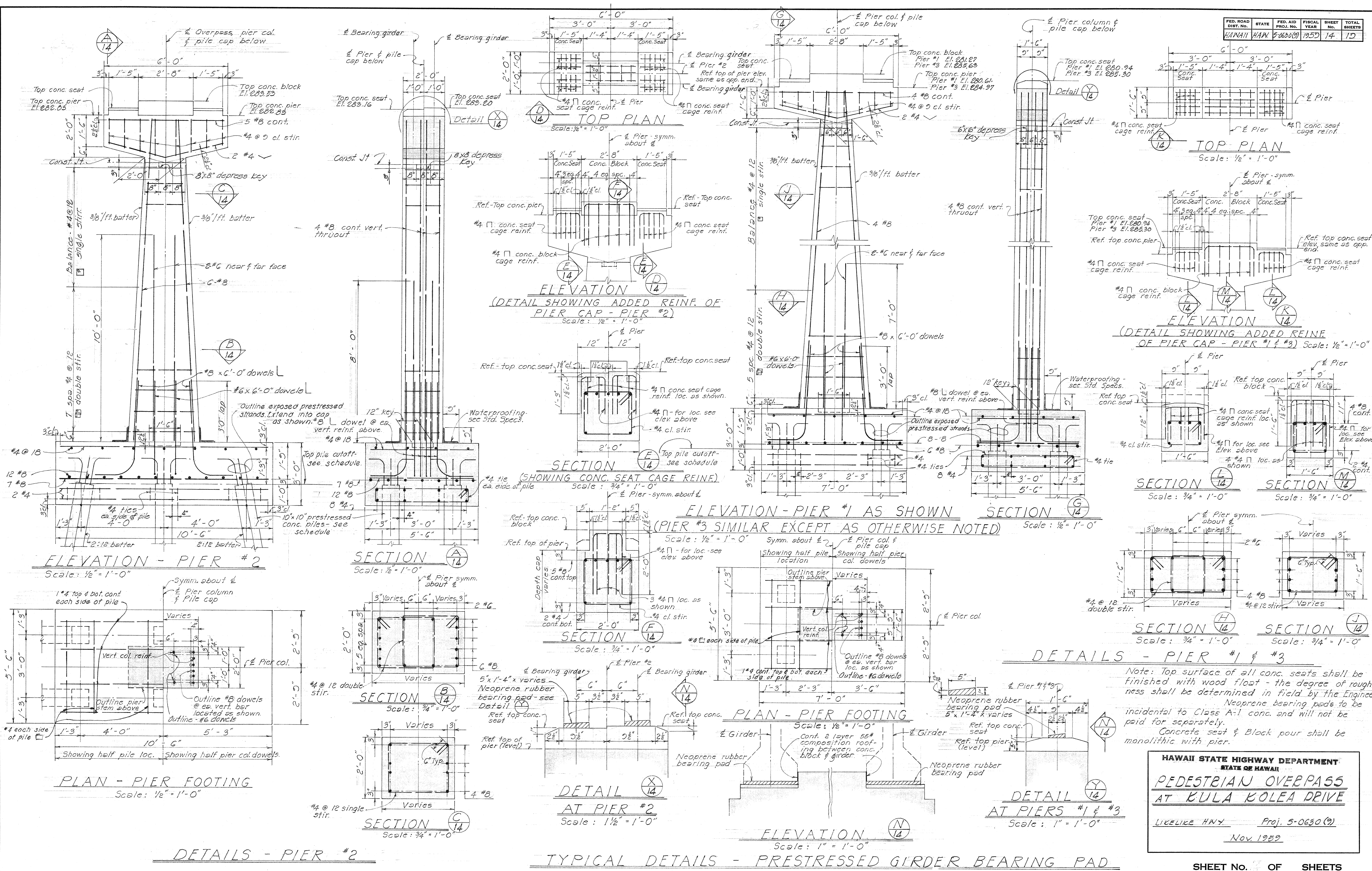


SECTION A

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

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PEDESTRIAN OVERPASS
AT KULA KOLEA DRIVE
LIKELIKE HWY. PROJ. S-0630 (9)
NOV. 1959

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII HAW.	HAW.	5-0630(9)	1953	14	15



Note: Top surface of all conc. seats shall be finished with wood float - the degree of roughness shall be determined in field by the Engineer. Neoprene bearing pads to be incidental to Class A-1 conc. and will not be paid for separately. Concrete seat & Block pour shall be monolithic with pier.

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
PEDESTRIAN OVERPASS
AT KULA KOEA DRIVE
 LIKELIKE HWY. Proj. 5-0630(9)
 Nov. 1952

DATE: 11-15-52
 SURVEY PLOTTED BY: J. B. H.
 DRAWN BY: J. B. H.
 CHECKED BY: J. B. H.
 QUANTITIES CHECKED BY: J. B. H.
 NOTE BOOK NO. 14