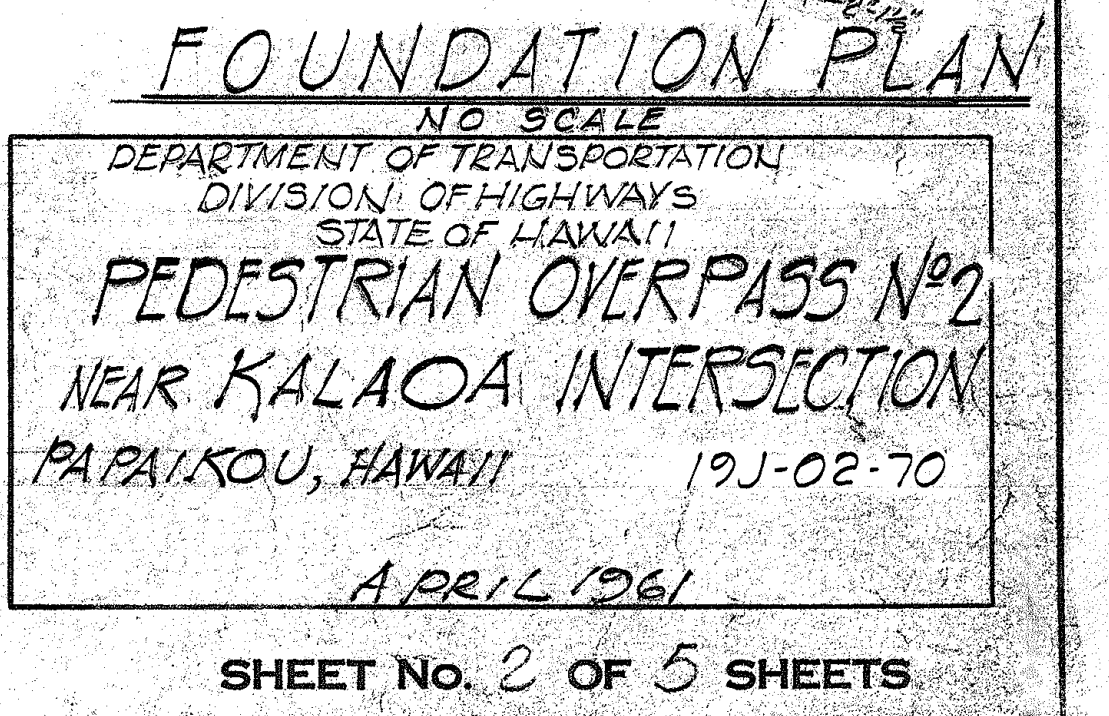
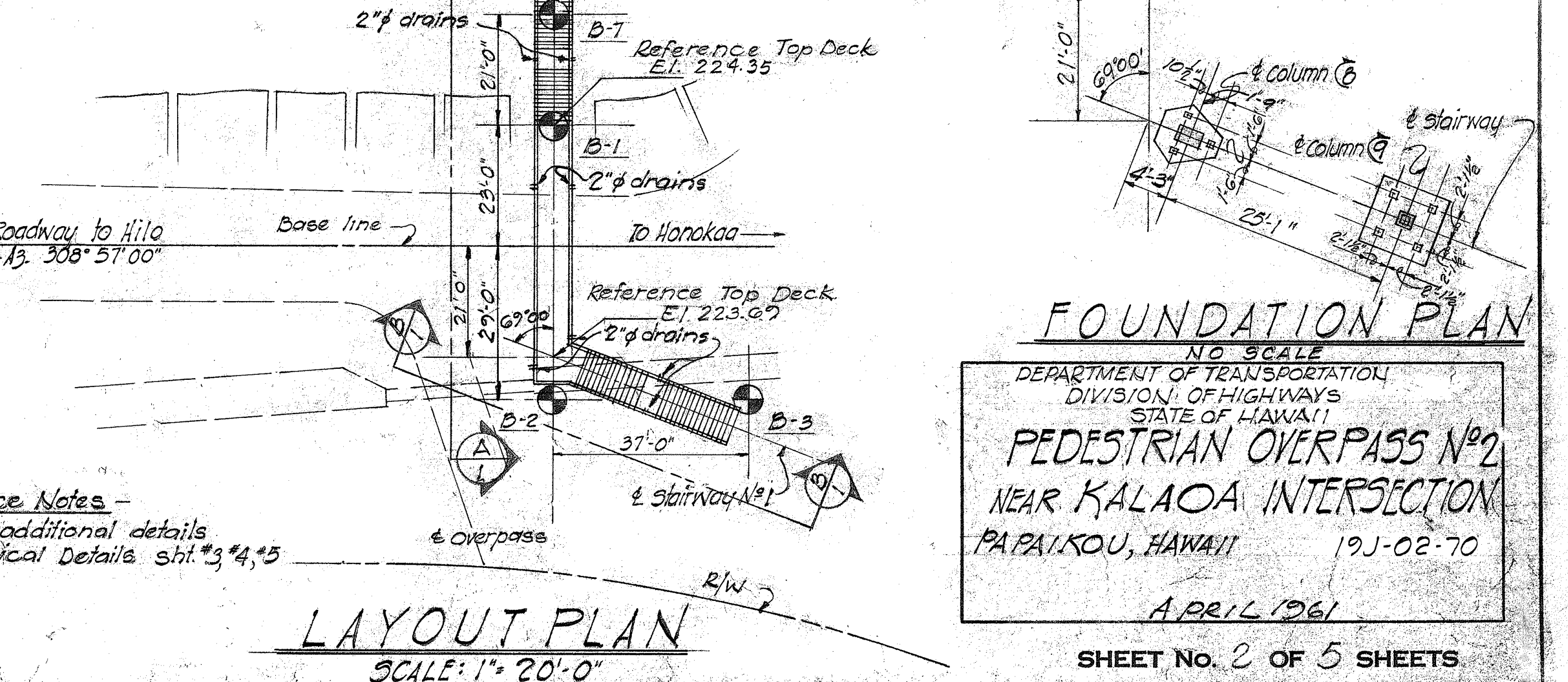
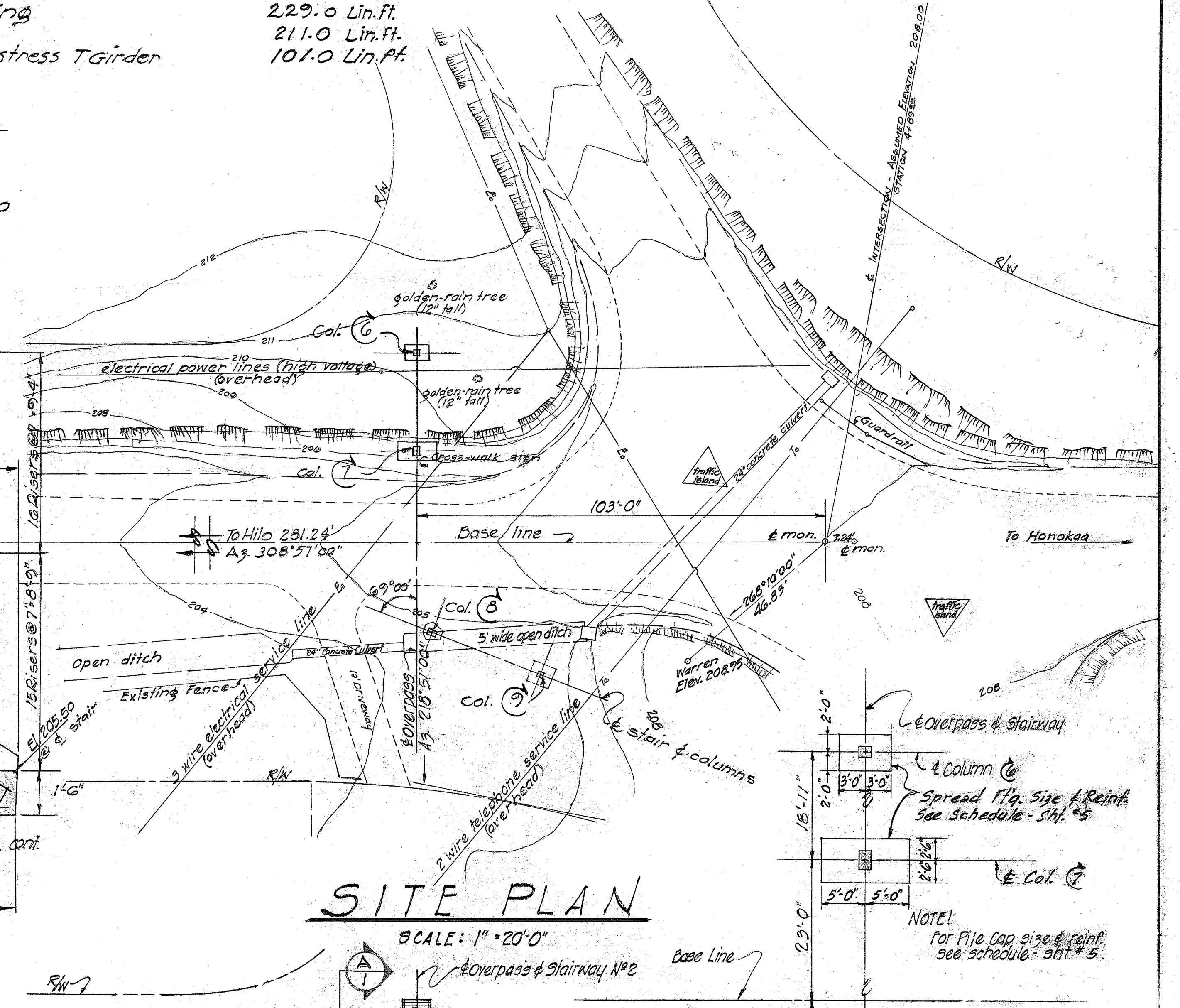
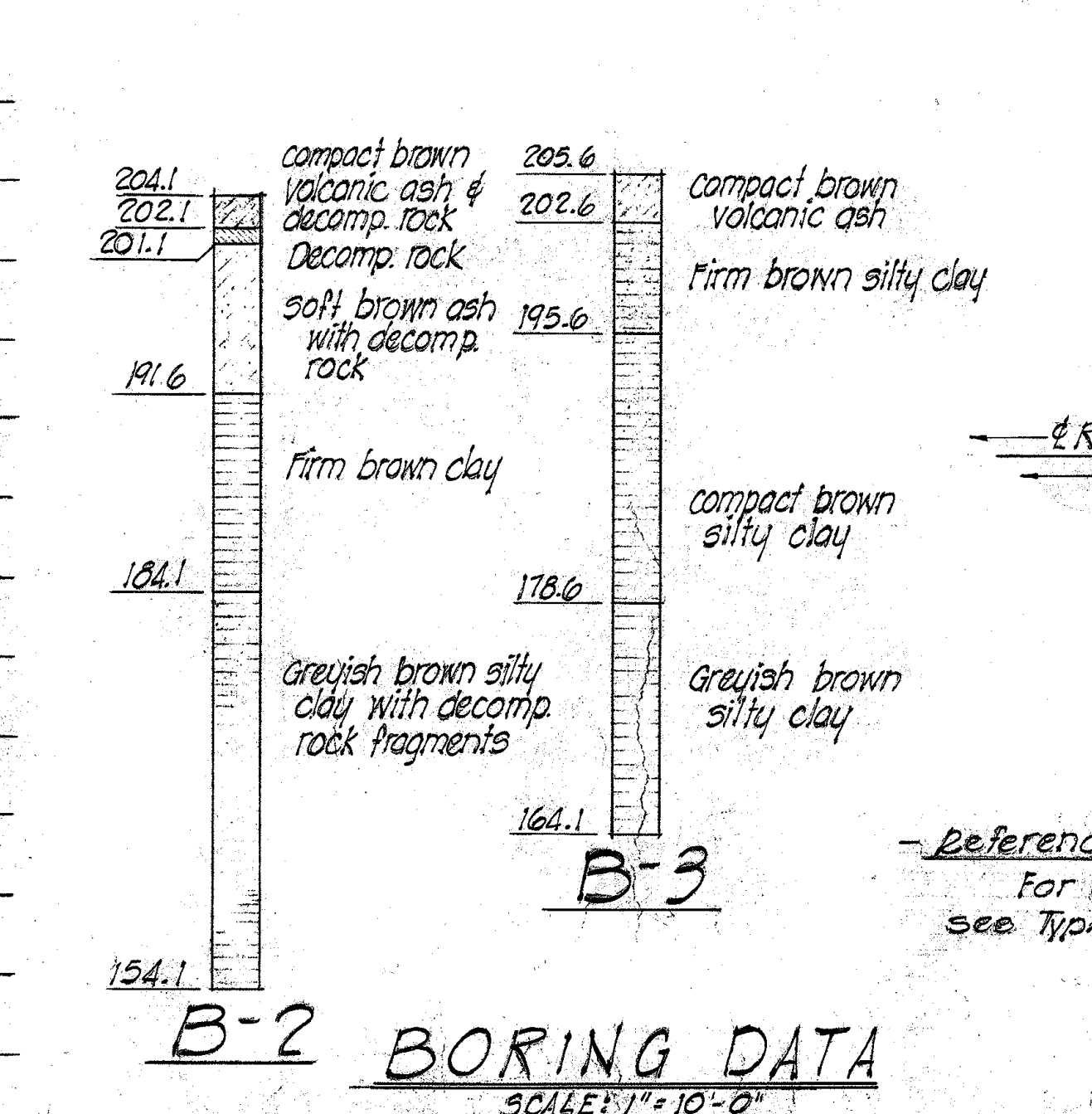
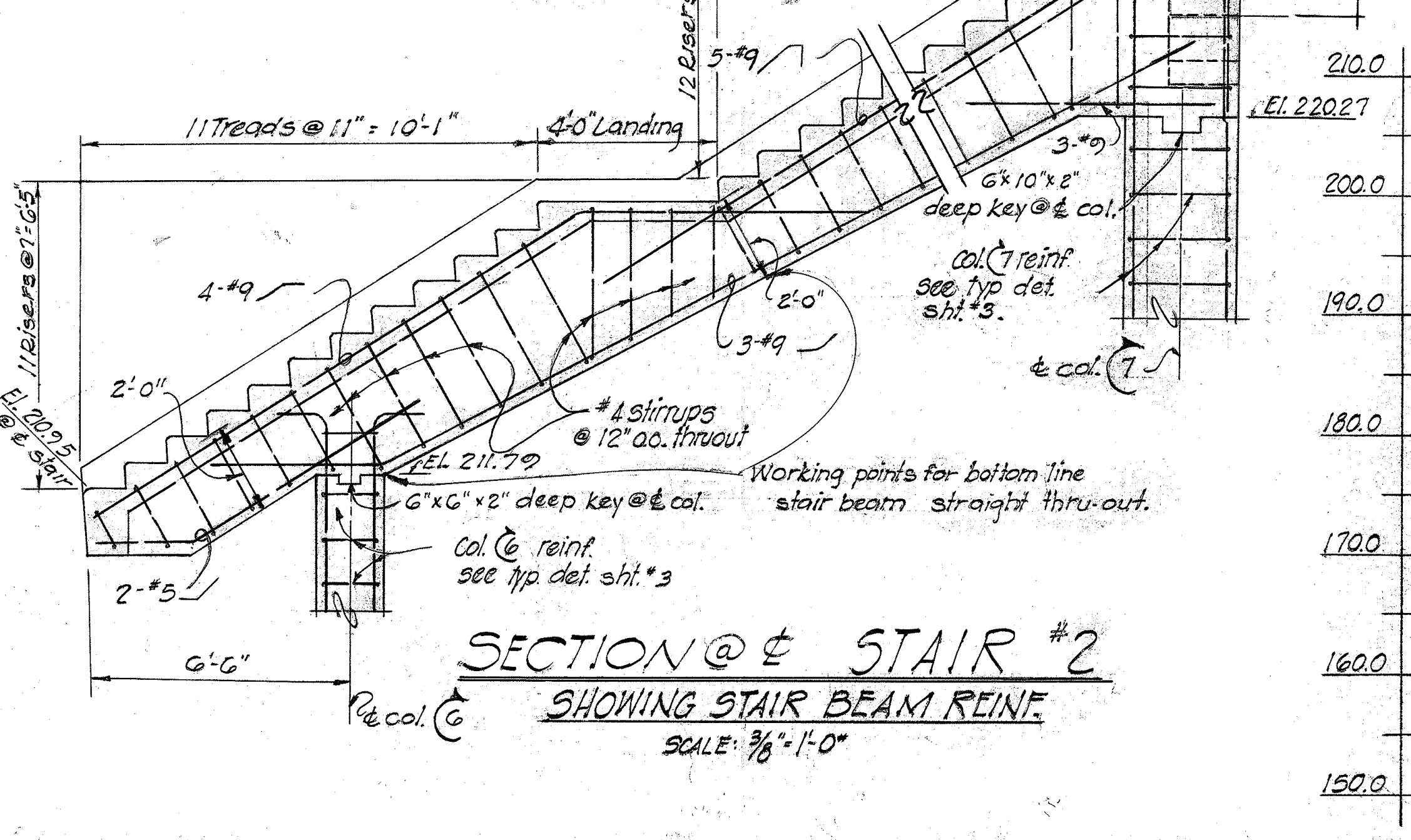
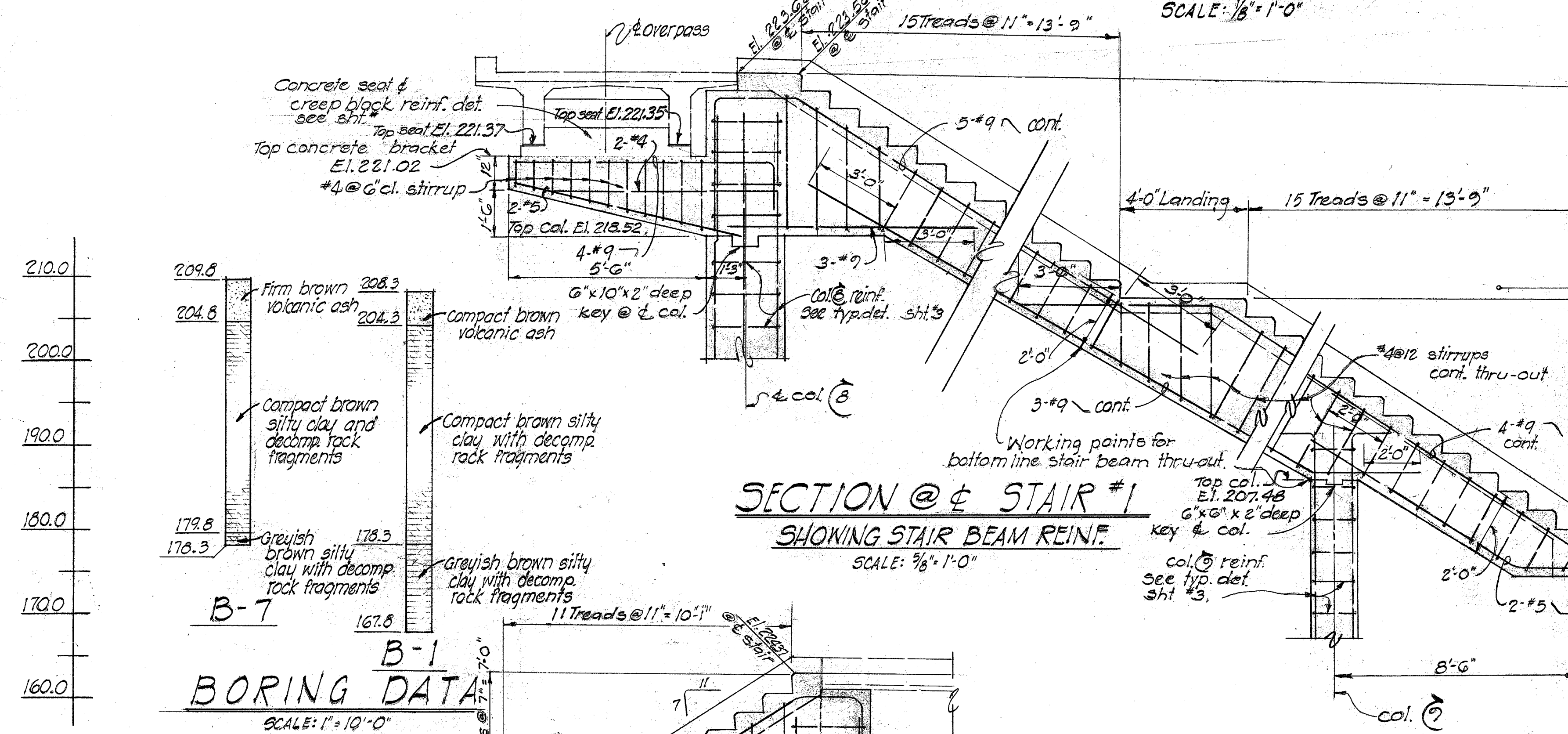
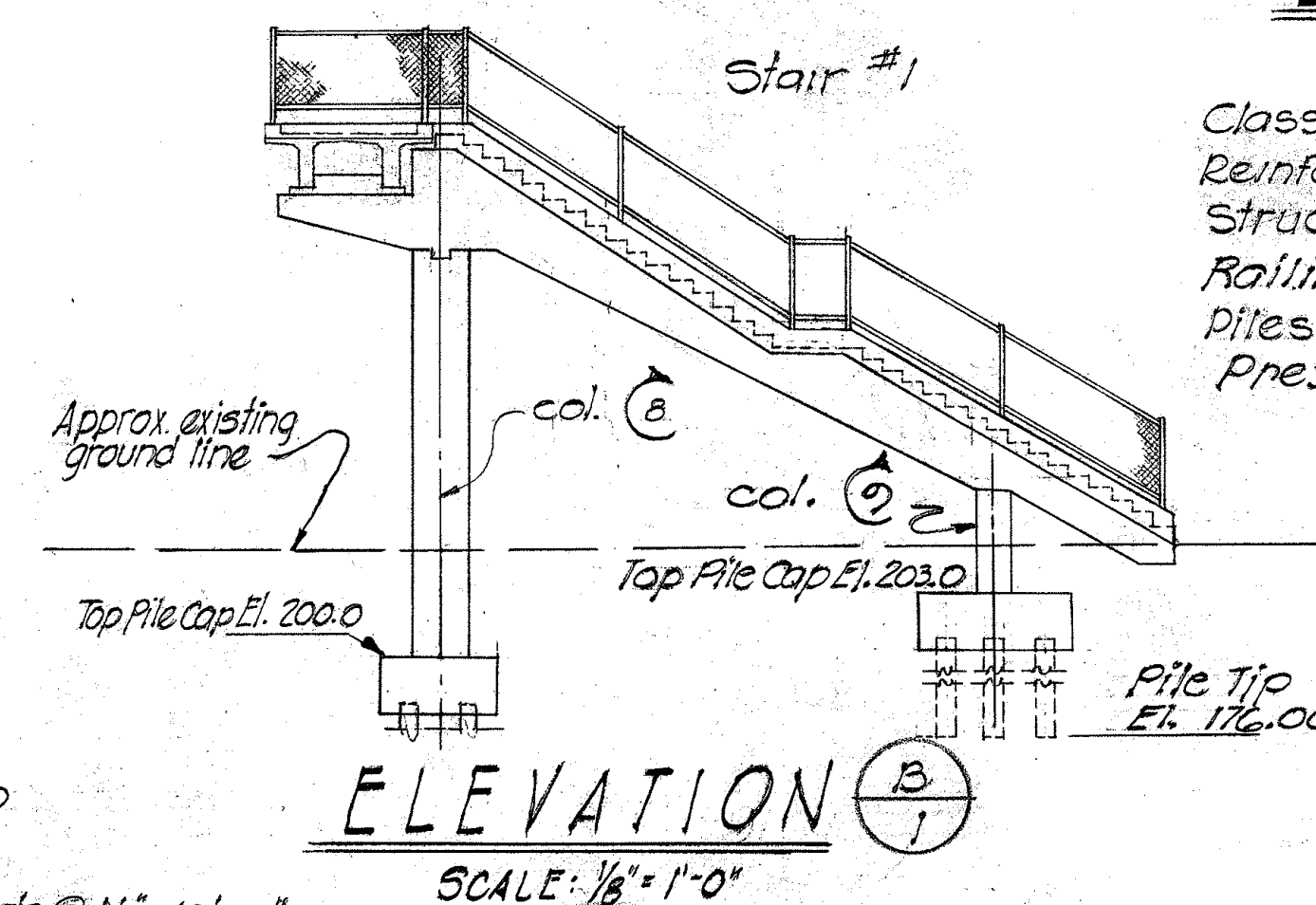
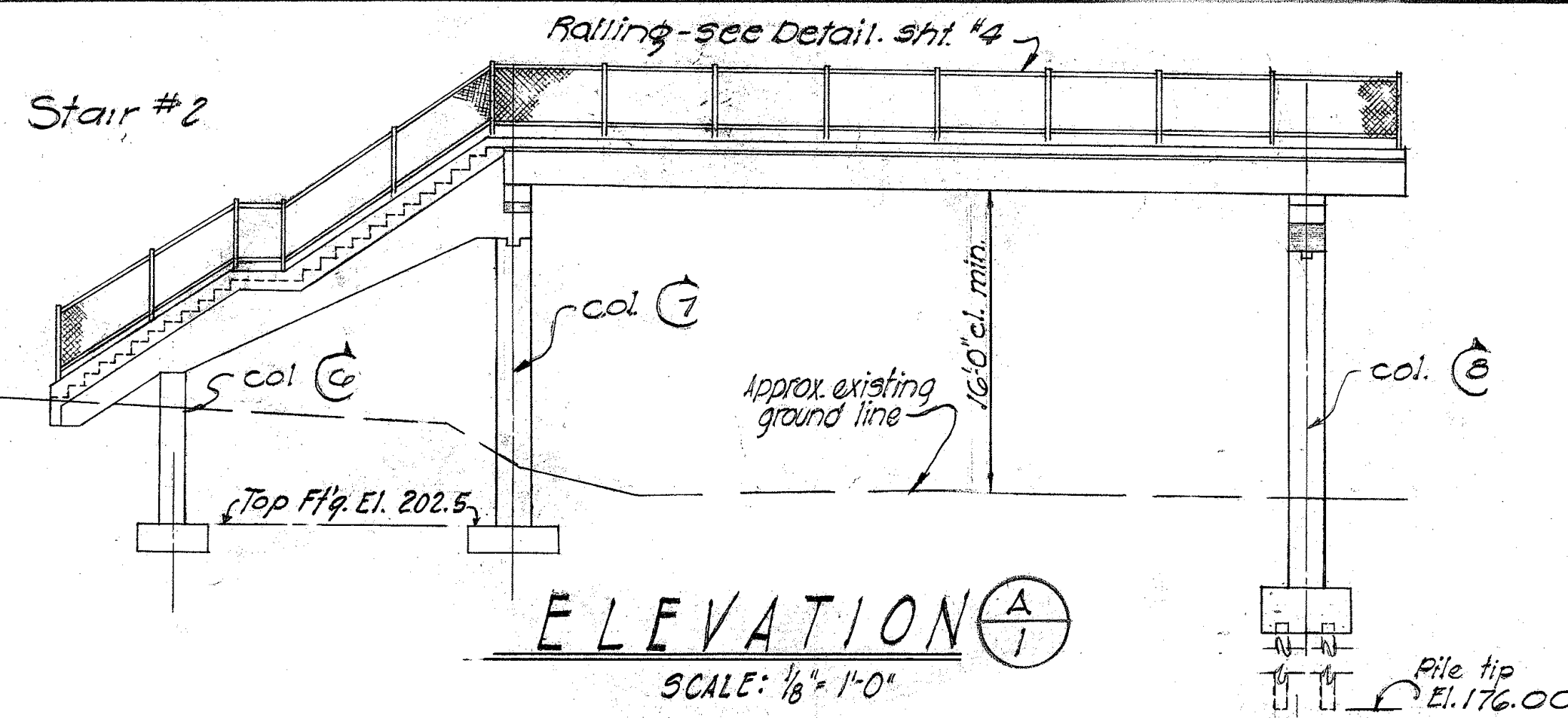


FED. ROAD DIST. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
	HAW.	19J-02-70	1969	3	6

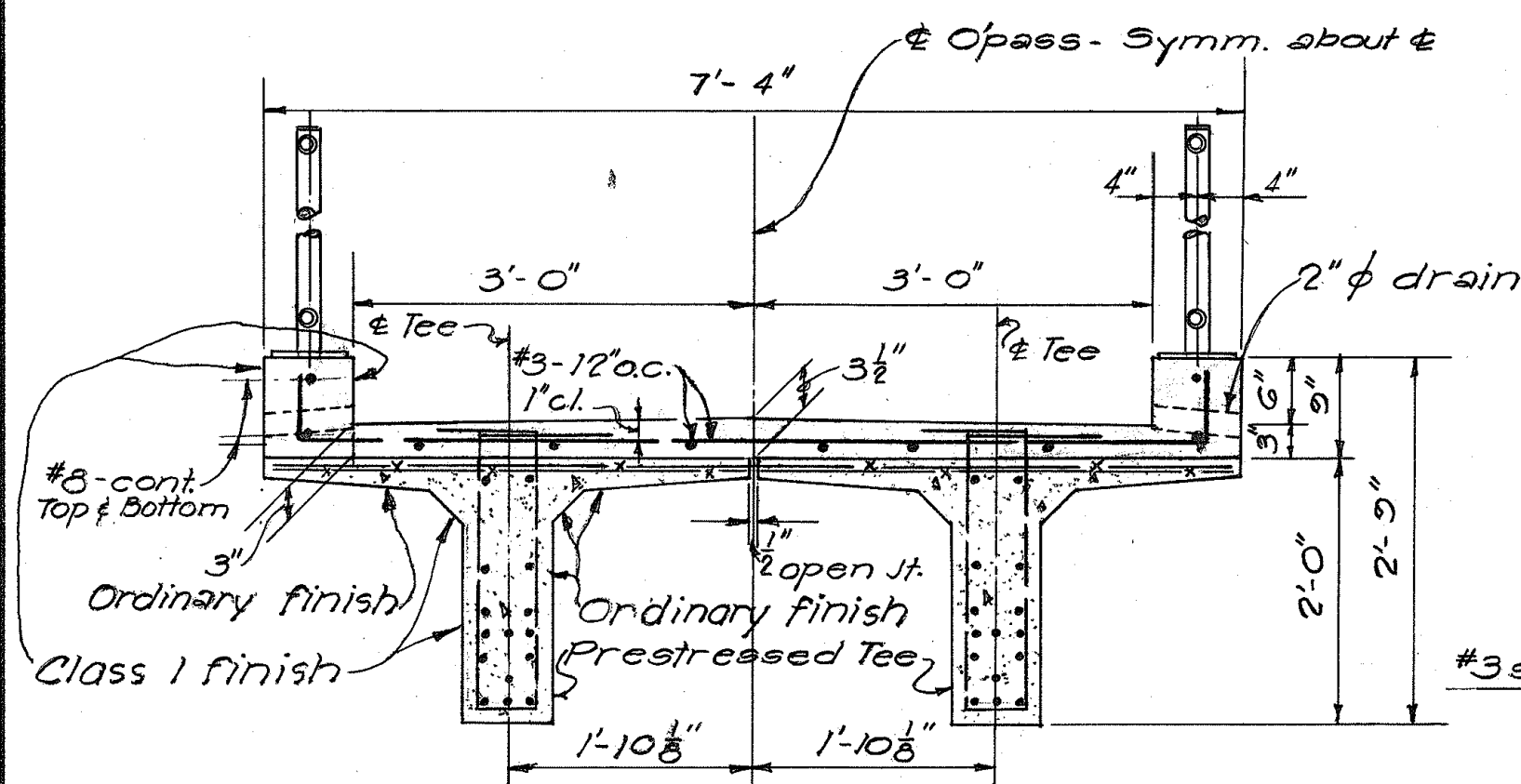
ESTIMATED QUANTITIES

Class A-1 concrete
Reinforcing Steel
Structural Exc.
Railing
Piles
Prestress T Girders

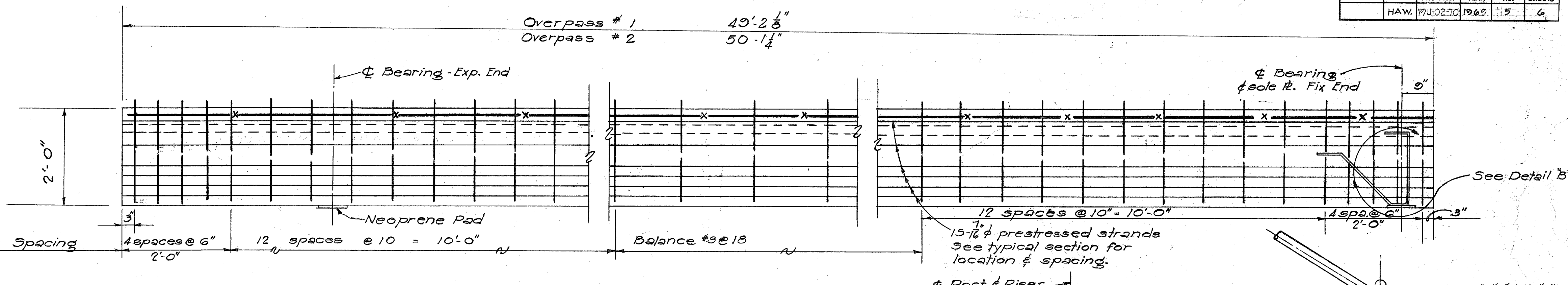
Lump sum (48.00¢)
Lump sum (7,900/lbs)
49.00¢
229.0 Lin.ft.
211.0 Lin.ft.
101.0 Lin.ft.



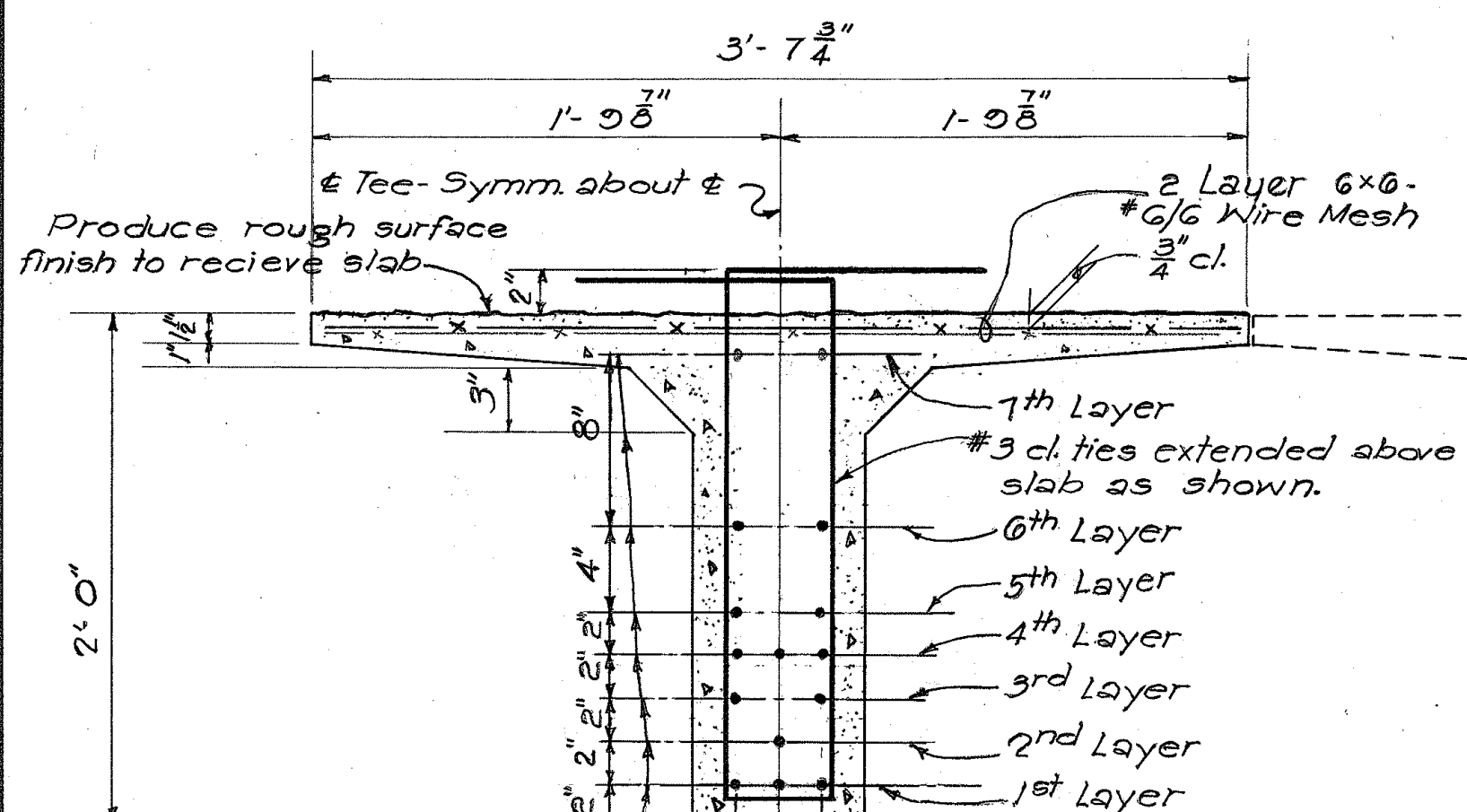
ORIGINAL PLAN	SURVEY PLOTTED BY <i>C. M. C. R. V.</i>	DATE " "
	DRAWN BY <i>W. B. S. F.</i>	" "
	TRACED BY _____	" "
NOTE BOOK	QUANTITIES BY <i>C. M.</i>	" "
	QUANTITIES CHECKED BY <i>T. E.</i>	" "
No.	CHECKED BY <i>C. M.</i>	" "



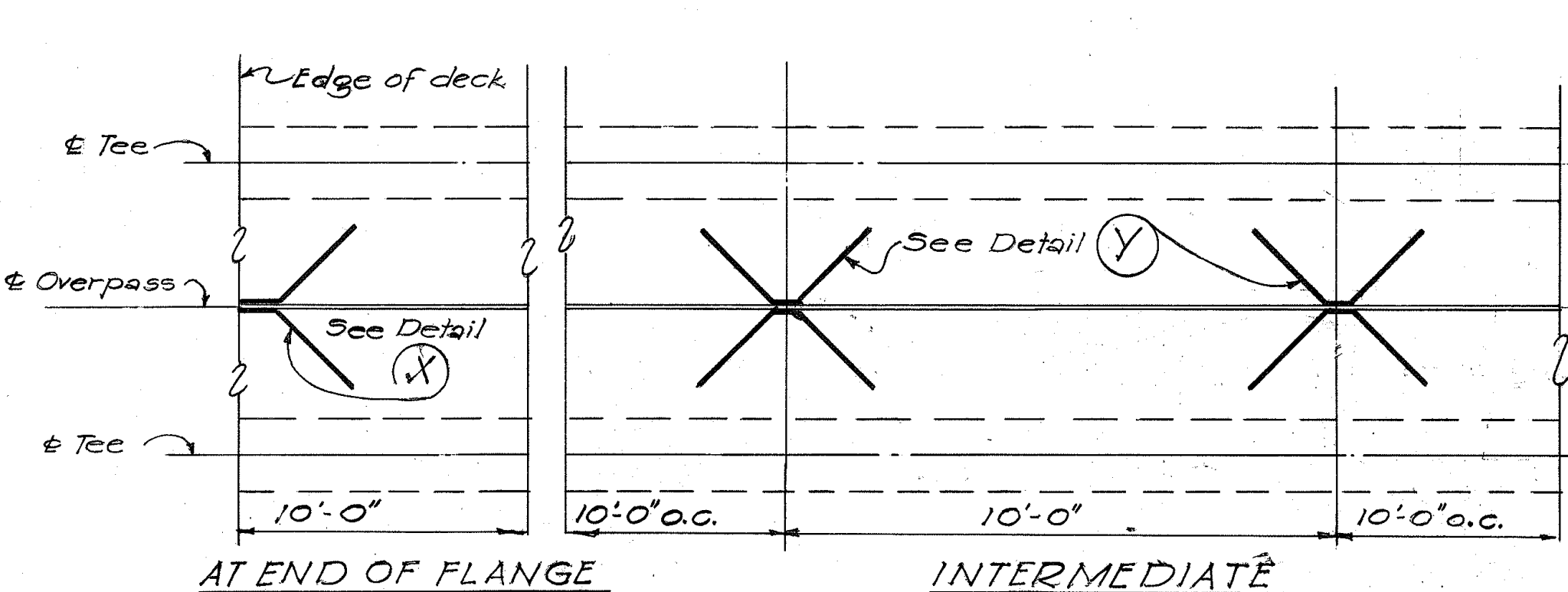
NORMAL SECTION THRU OVERPASS
Scale: $\frac{3}{4}$ " = 1'-0"



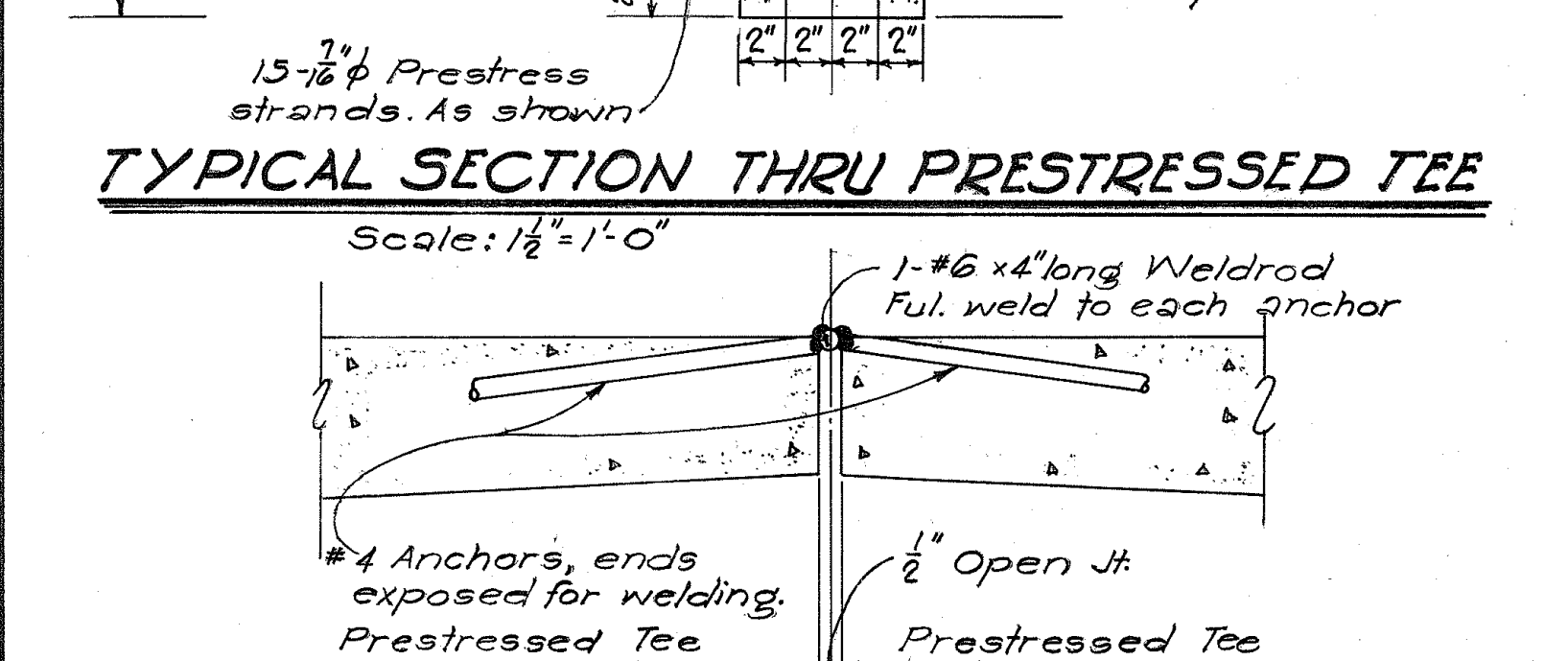
TYPICAL PRESTRESSED TEE DETAIL
Scale: $\frac{3}{4}$ " = 1'-0"



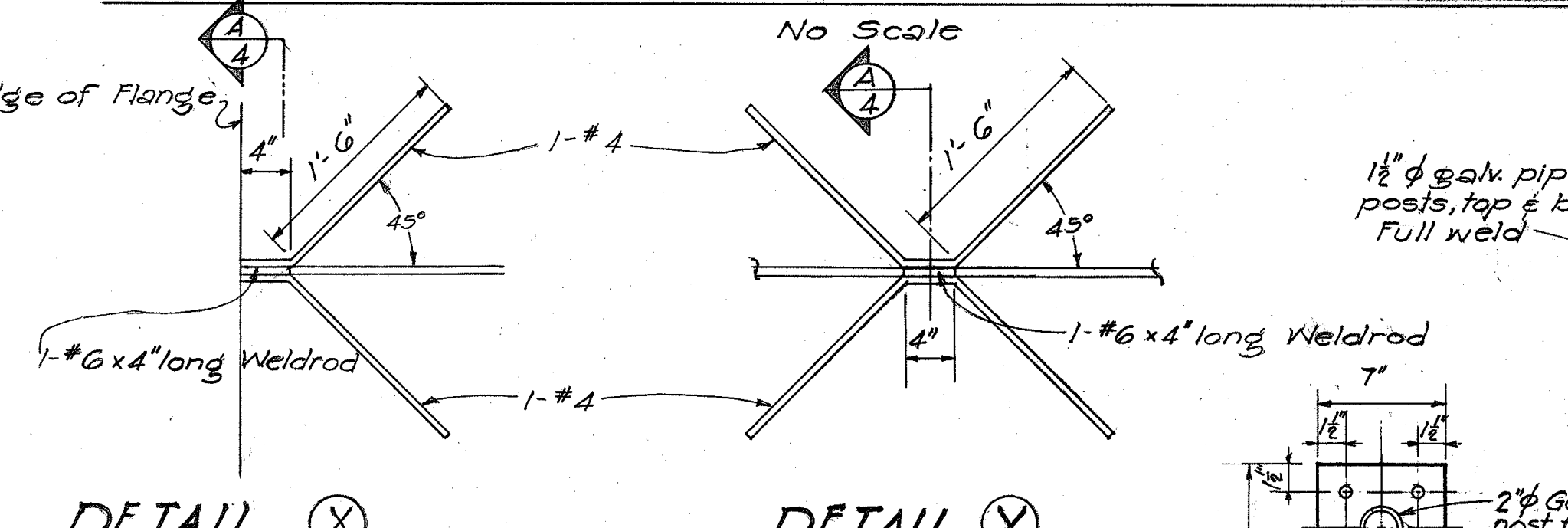
TYPICAL SECTION THRU PRESTRESSED TEE
Scale: $\frac{1}{2}$ " = 1'-0"



PLAN-LOCATION TYPICAL PRESTRESSED TEE FLANGE CONNECTOR
Scale: 1" = 1'-0"

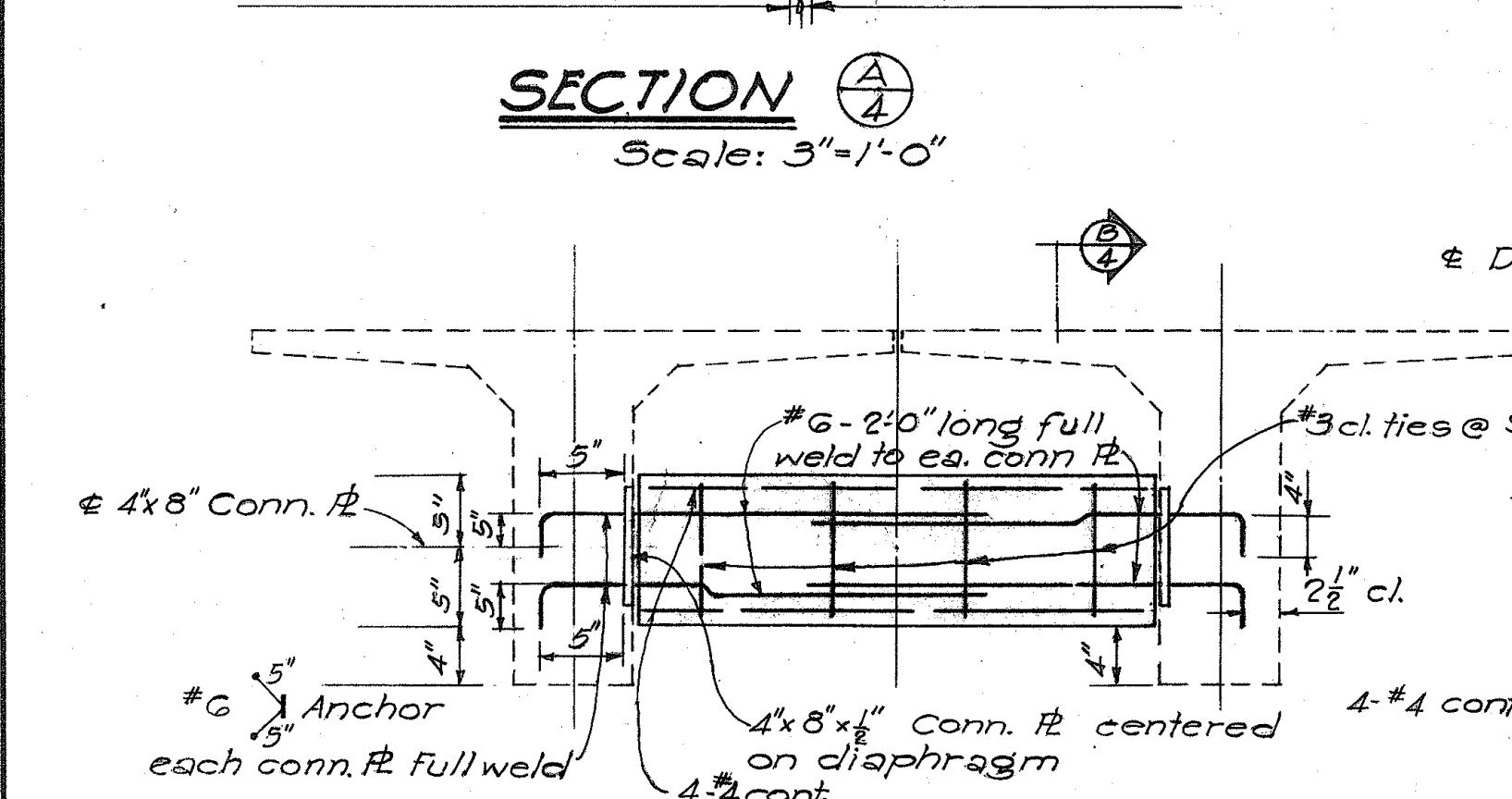


SECTION A
Scale: 3" = 1'-0"

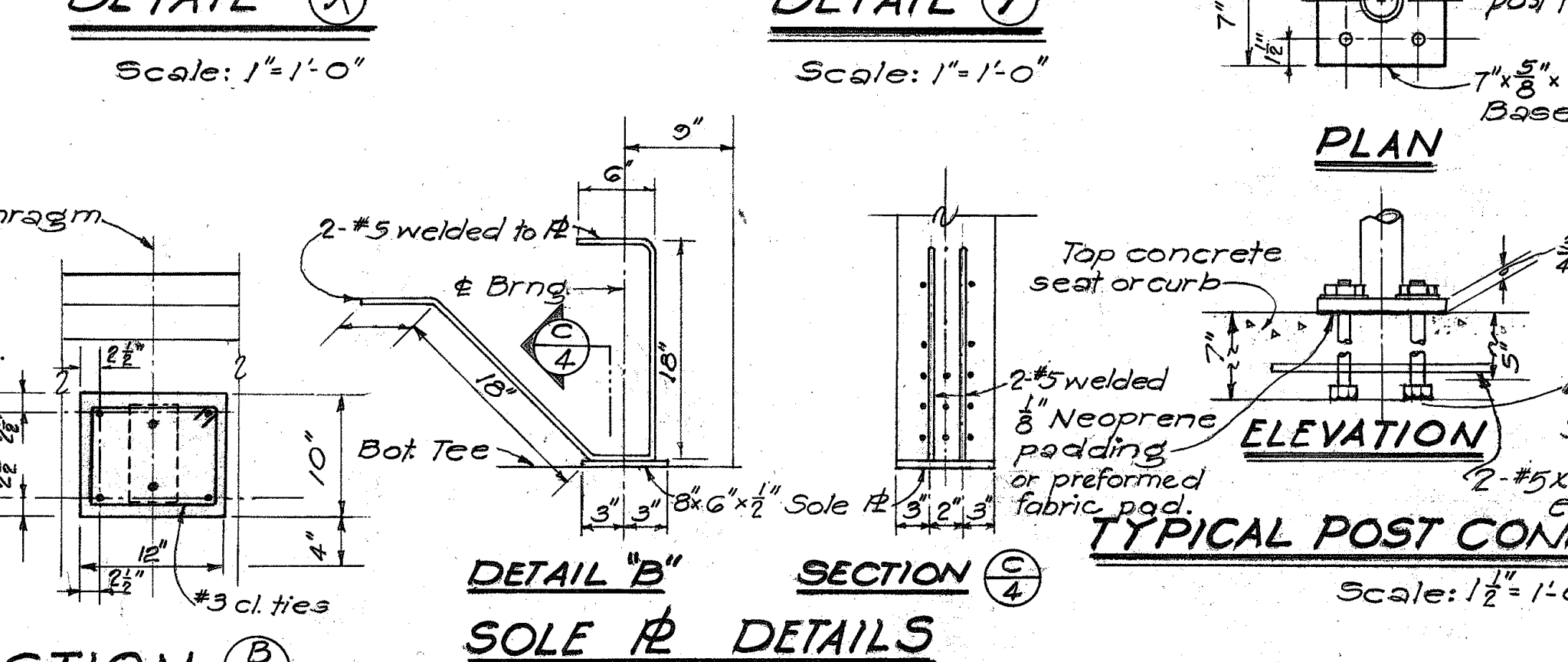


DETAIL X
Scale: 1" = 1'-0"

DETAIL Y
Scale: 1" = 1'-0"

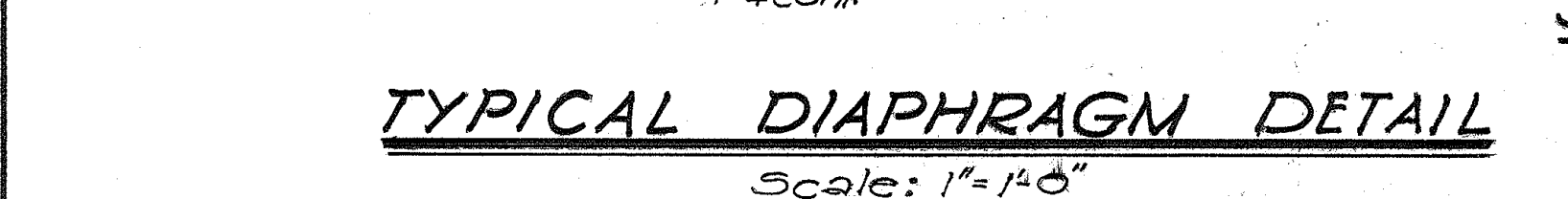


TYPICAL DIAPHRAGM DETAIL
Scale: 1" = 1'-0"



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

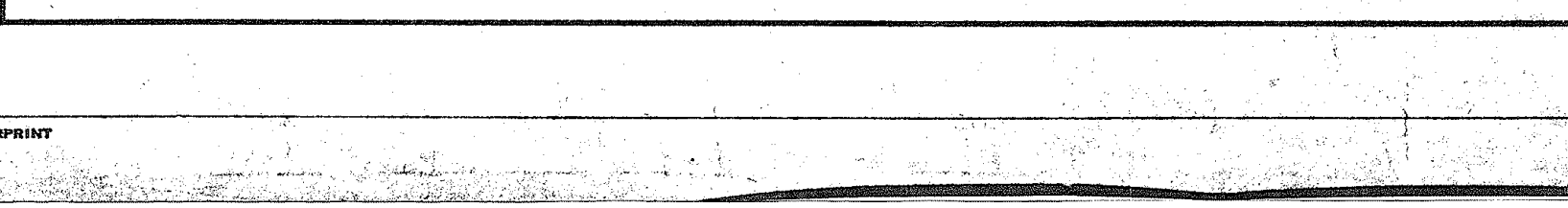
SECTION C
Scale: 1" = 1'-0"



TYPICAL POST CONN. R. DETAILS
Scale: $\frac{1}{2}$ " = 1'-0"

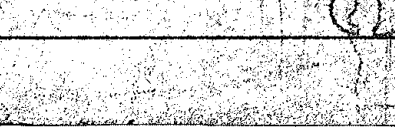
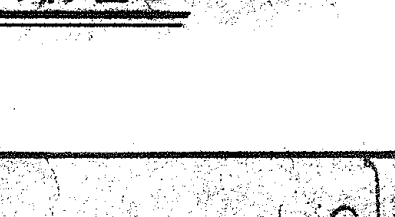
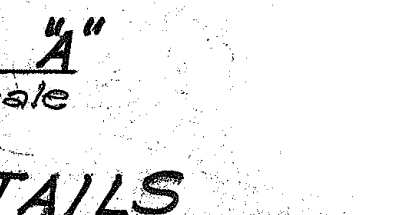
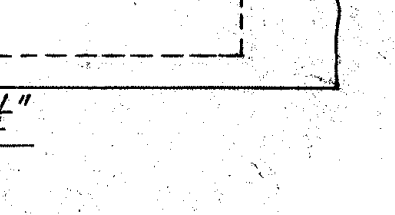
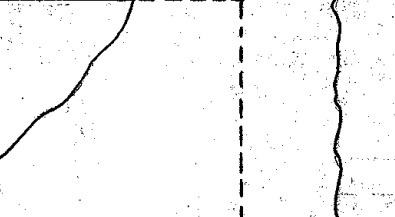
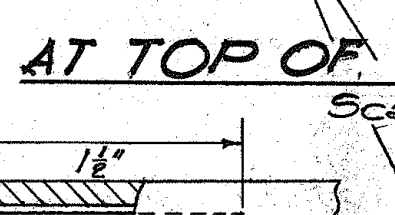
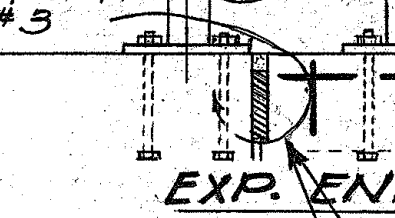
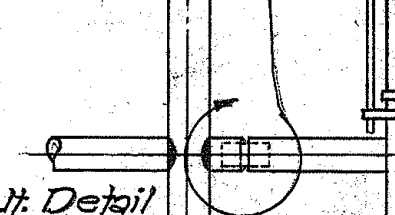
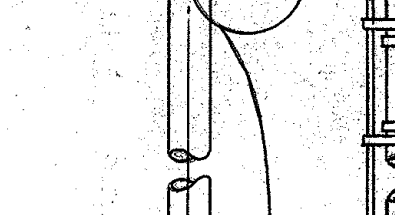
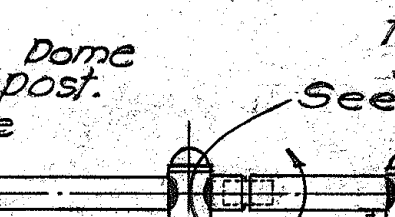
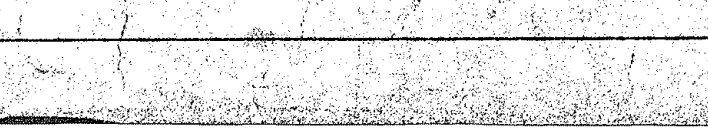
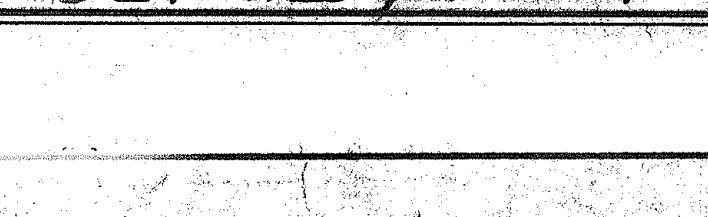
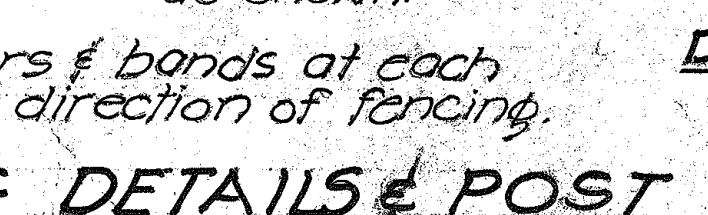
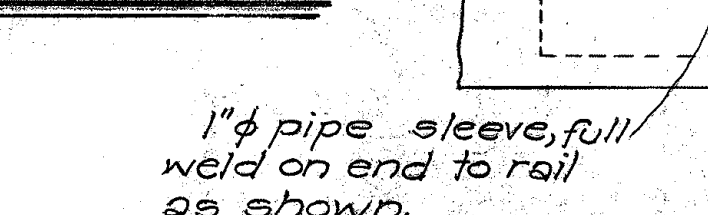
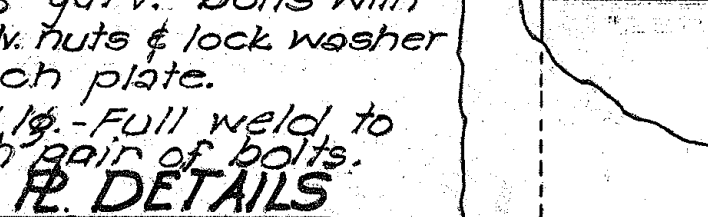
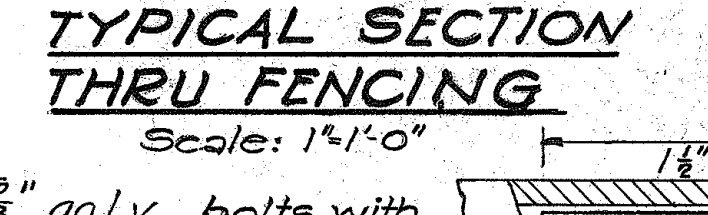
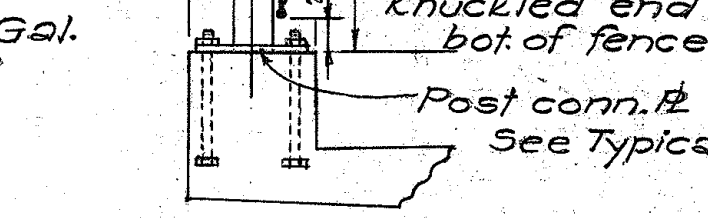
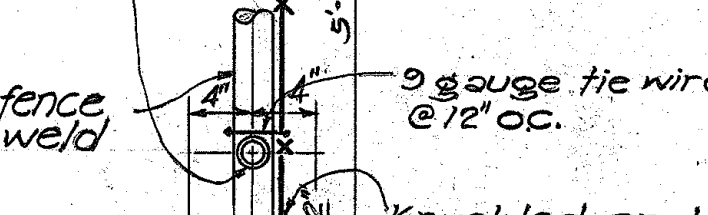
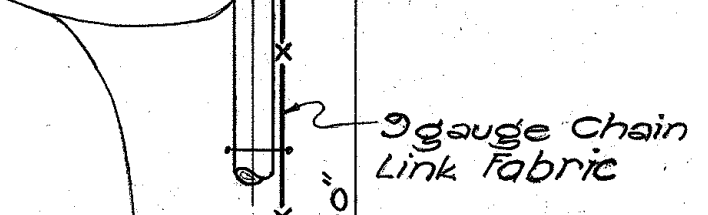
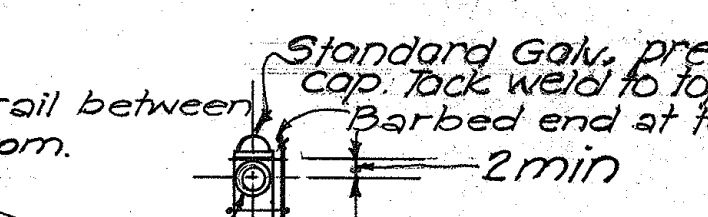
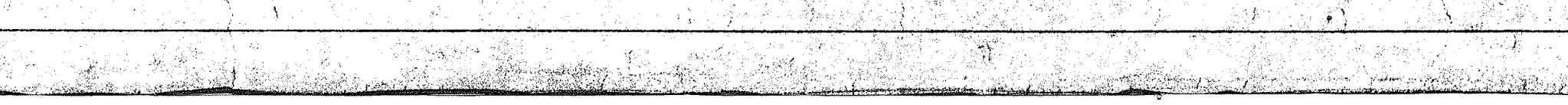
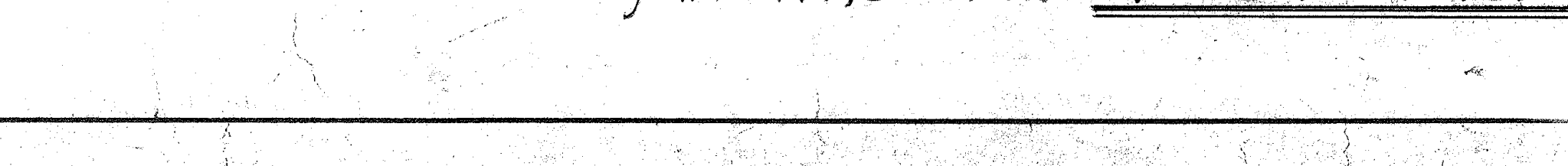
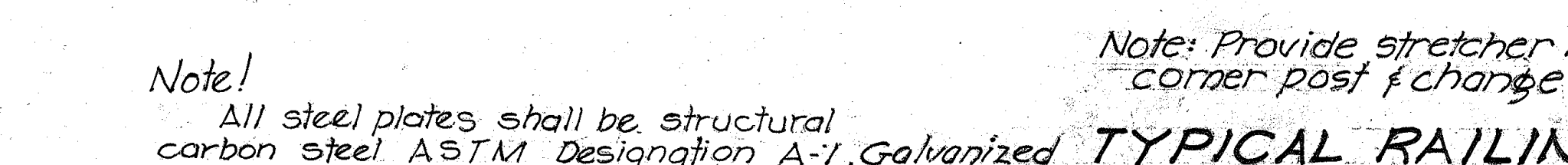
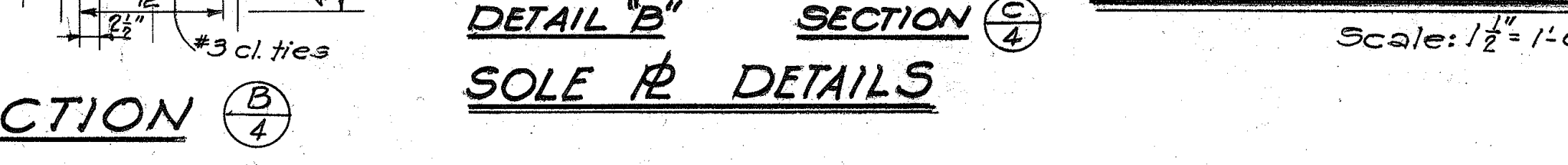
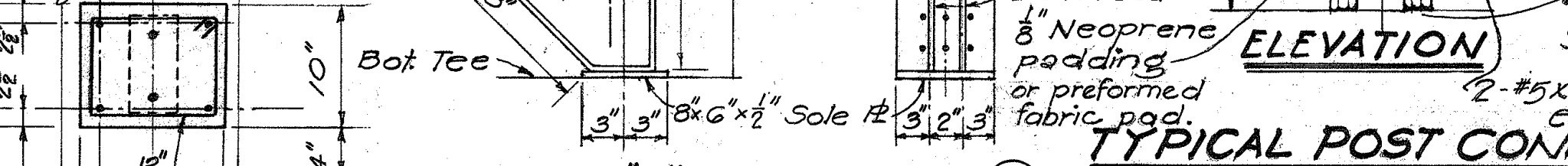
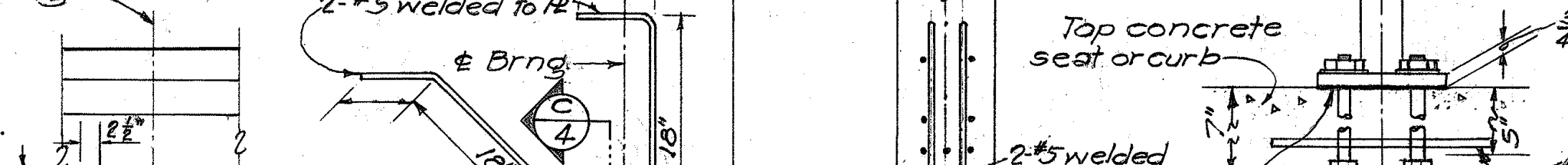
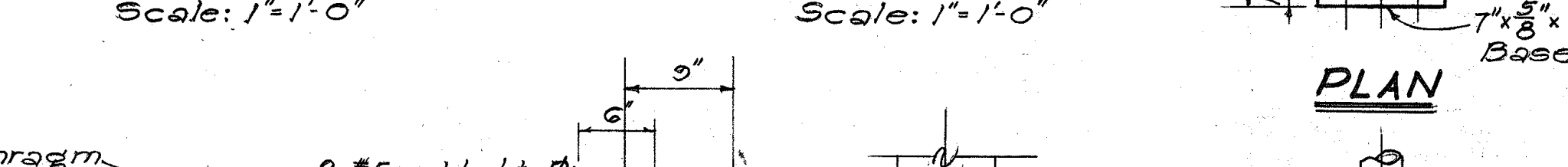
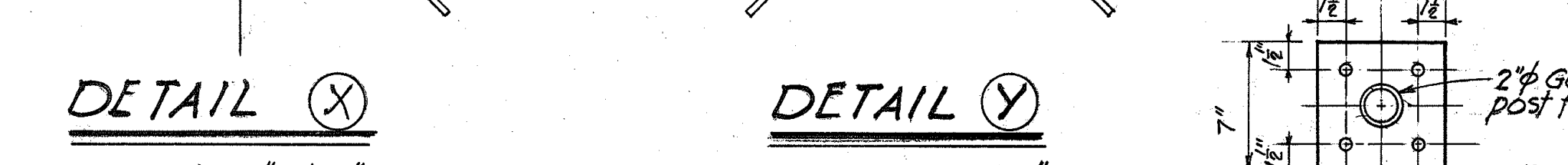
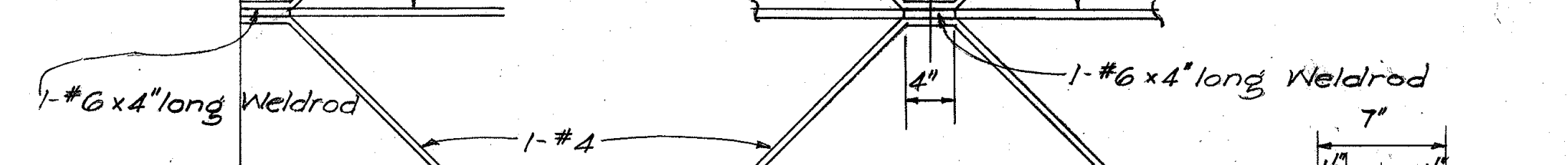
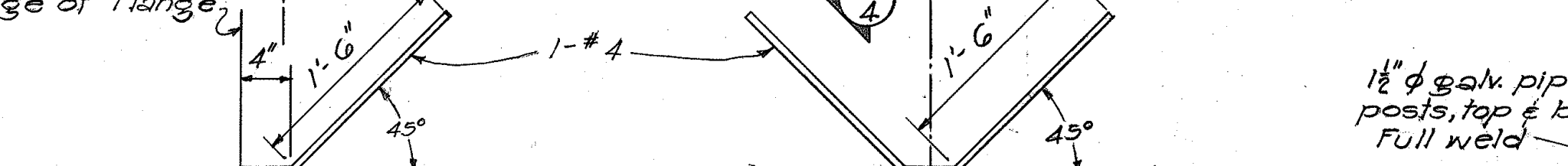
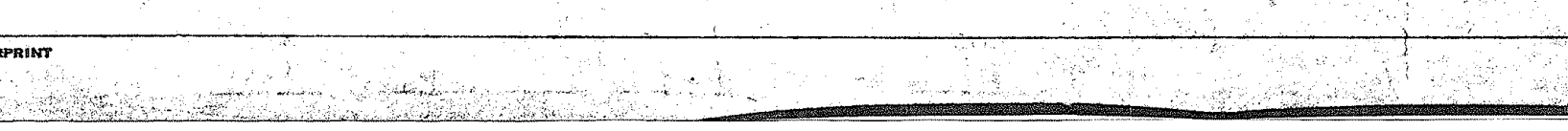
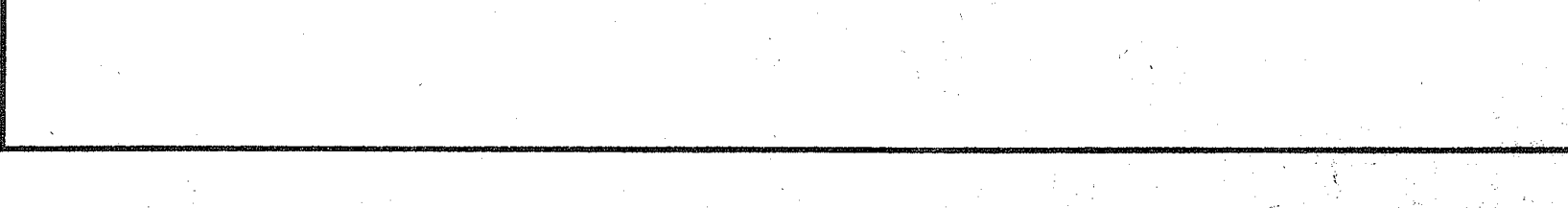
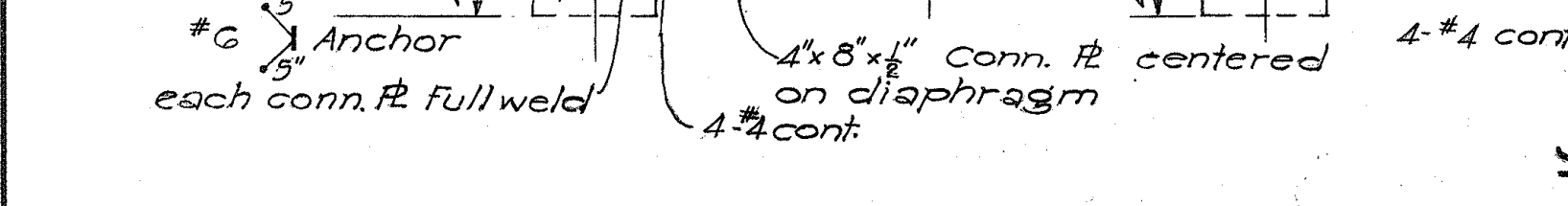
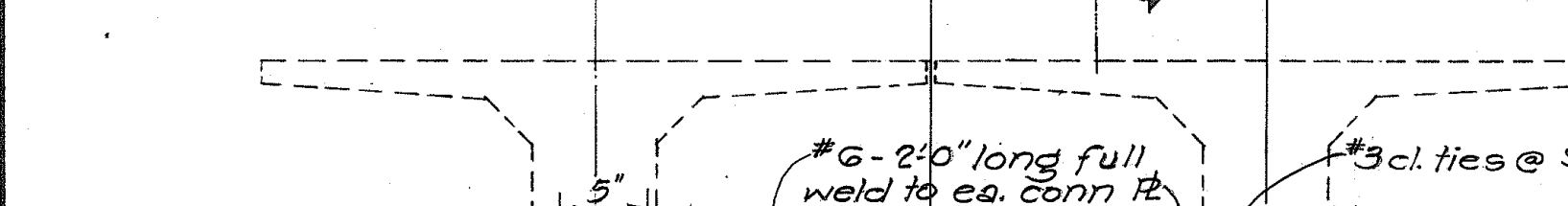
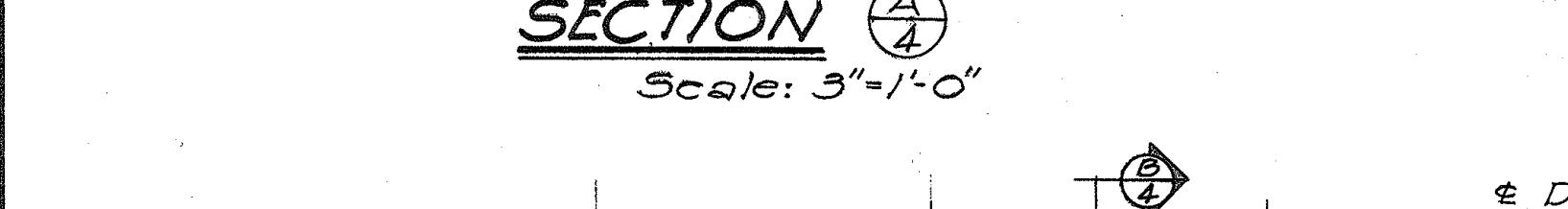
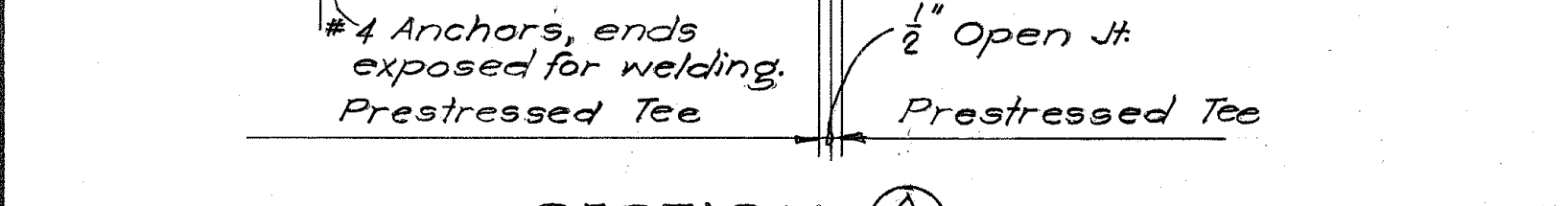
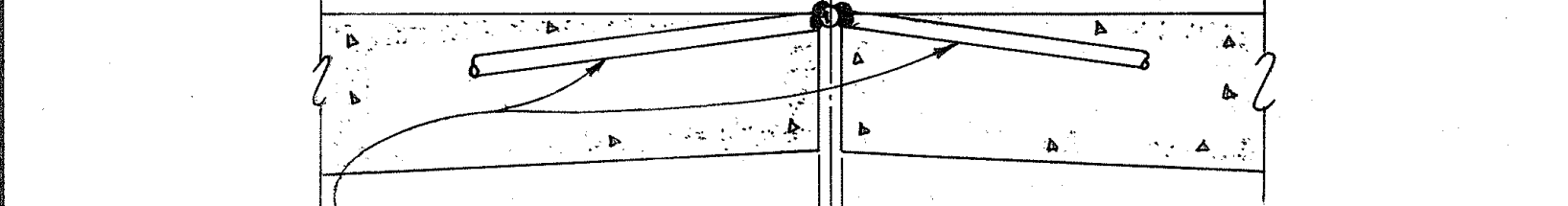
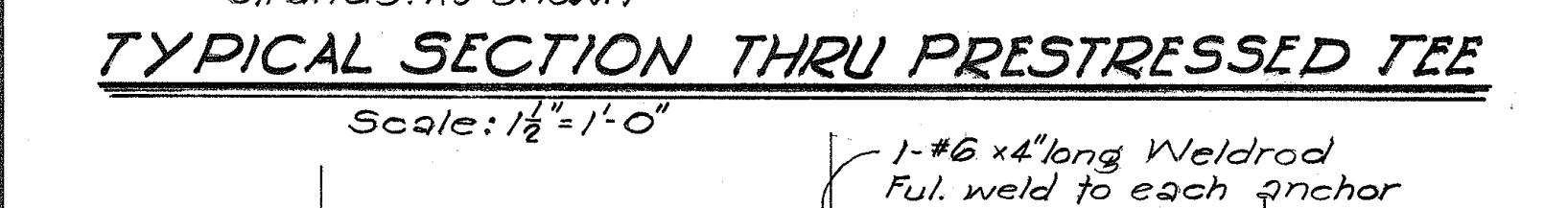


TYPICAL RAILING DETAILS & POST DETAILS
Scale: 1" = 1'-0"

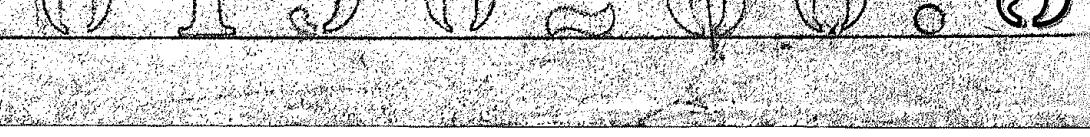
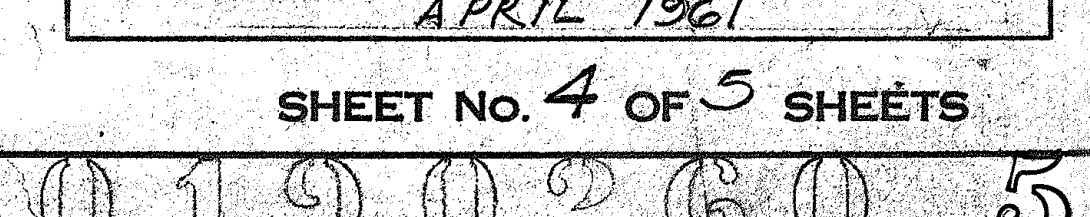
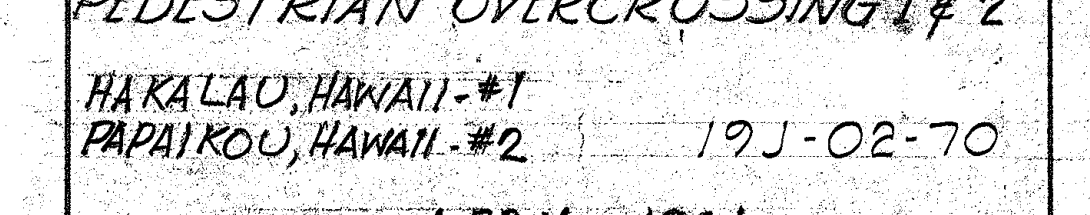
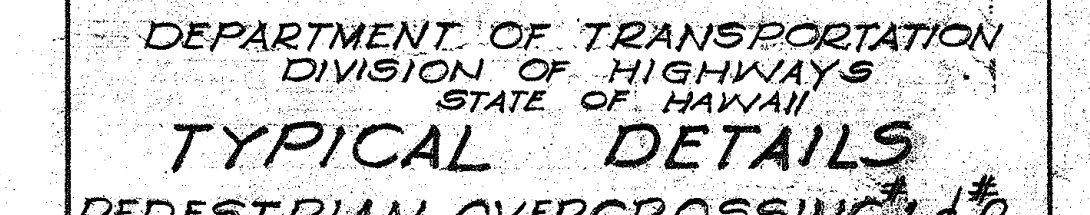
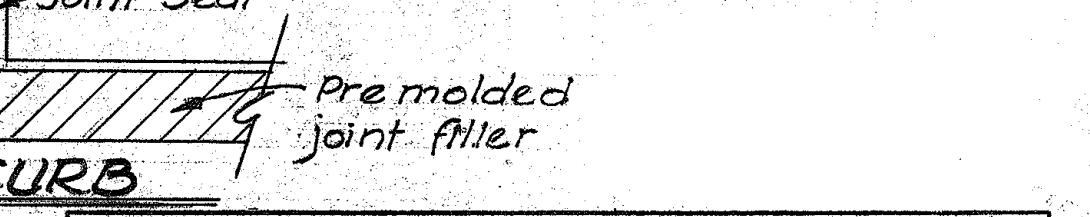
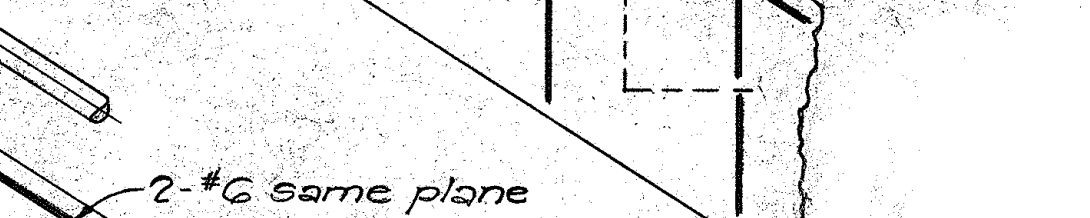
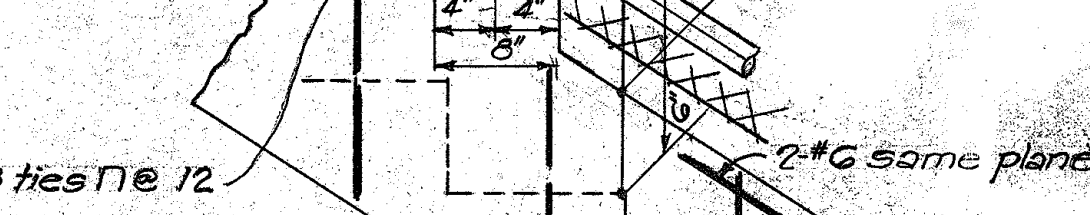
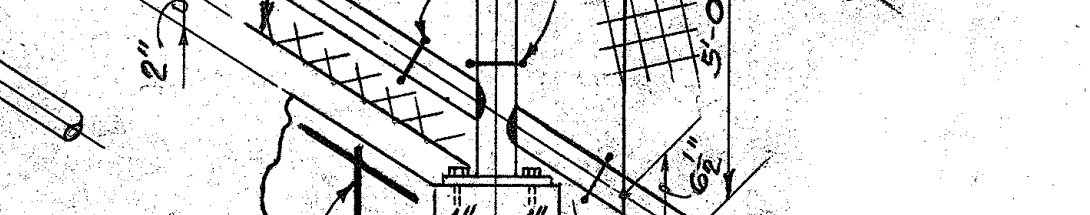
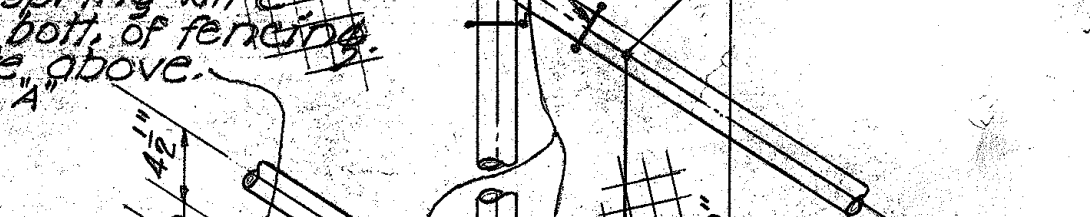


TYPICAL ALONG OVERPASS
Scale: 1" = 1'-0"

FIXED END
Scale: 1" = 1'-0"

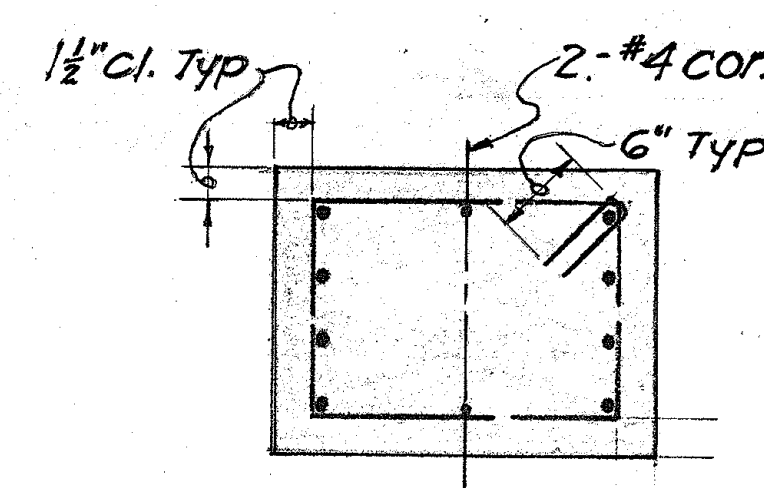


AT INTERMEDIATE LANDING
Scale: 1" = 1'-0"

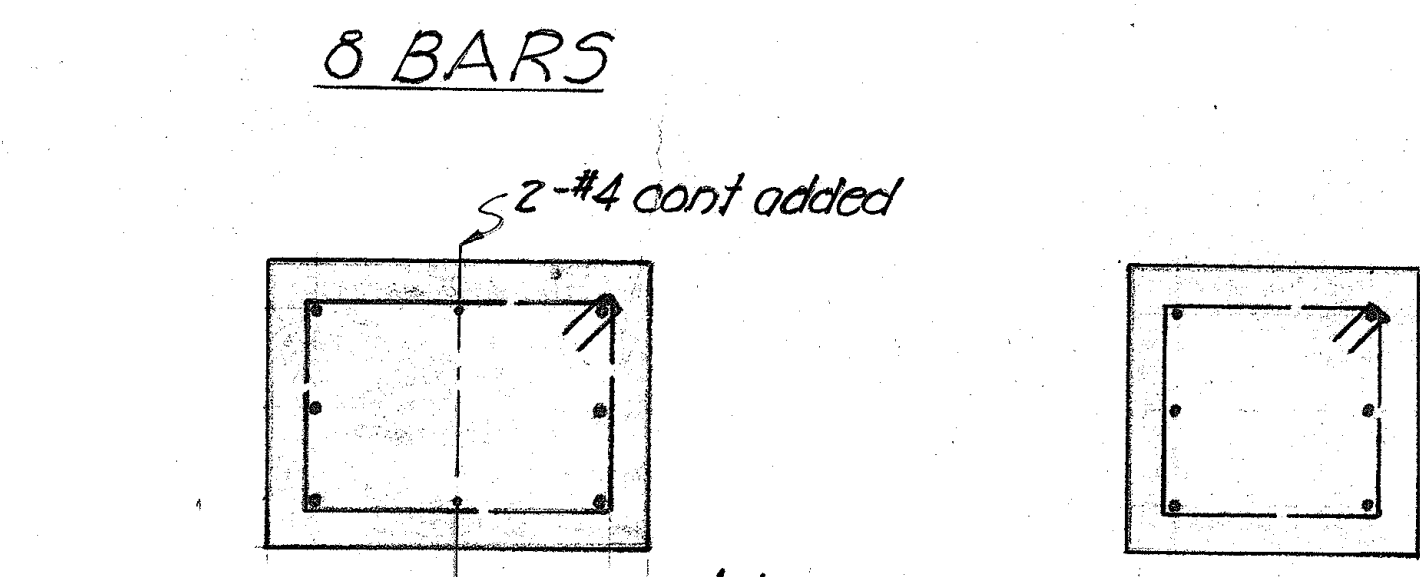
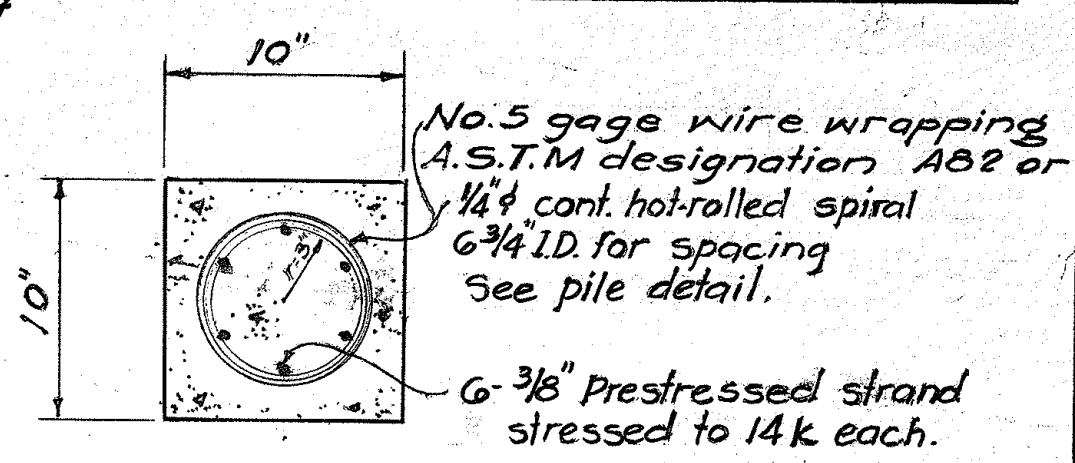
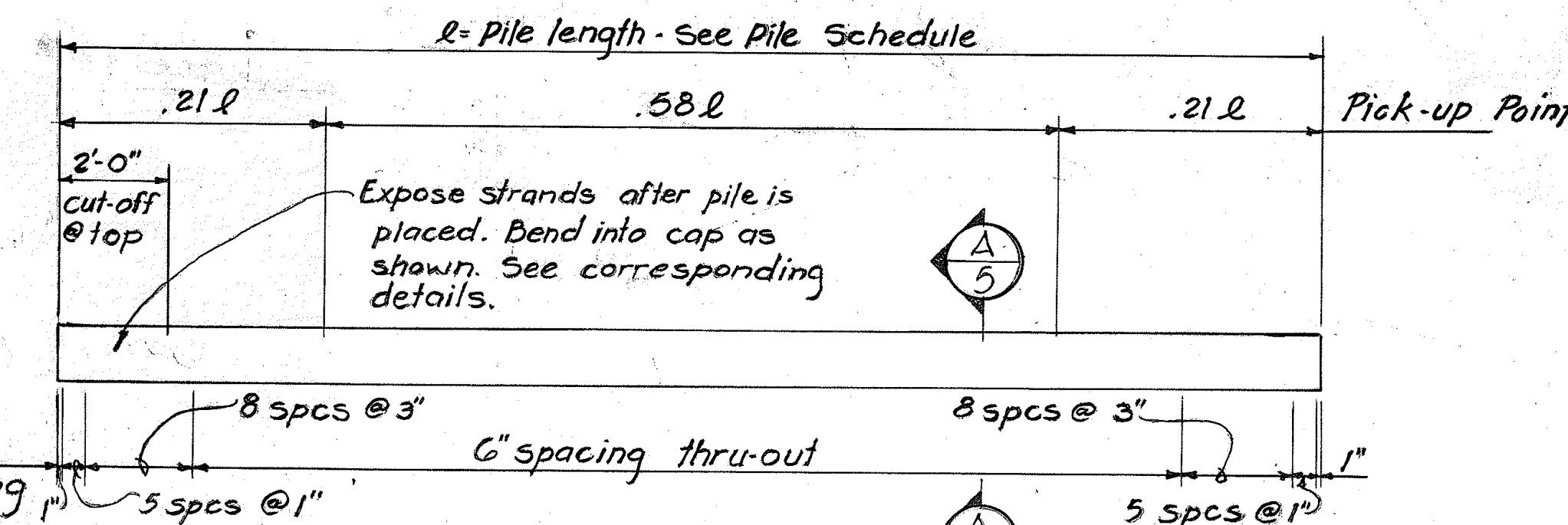


COLUMN SCHEDULE									
Column Location No.	1	2	3	4	5	6	7	8	9
Top of Ft'g. & Pile Cap	18"x18" 6-#9	18"x30" 8-#9	18"x30" 8-#9	18"x18" 6-#9	18"x18" 6-#9	18"x30" 8-#9	18"x30" 8-#9	18"x18" 6-#9	18"x18" 6-#9
Dowels	6-#9	8-#9	6-#9	6-#9	6-#9	8-#9	8-#9	6-#9	6-#9
Ft'g. & Pile Cap Type	P4	P3	P4	P2	P4	S-1	S-2	P3	P5

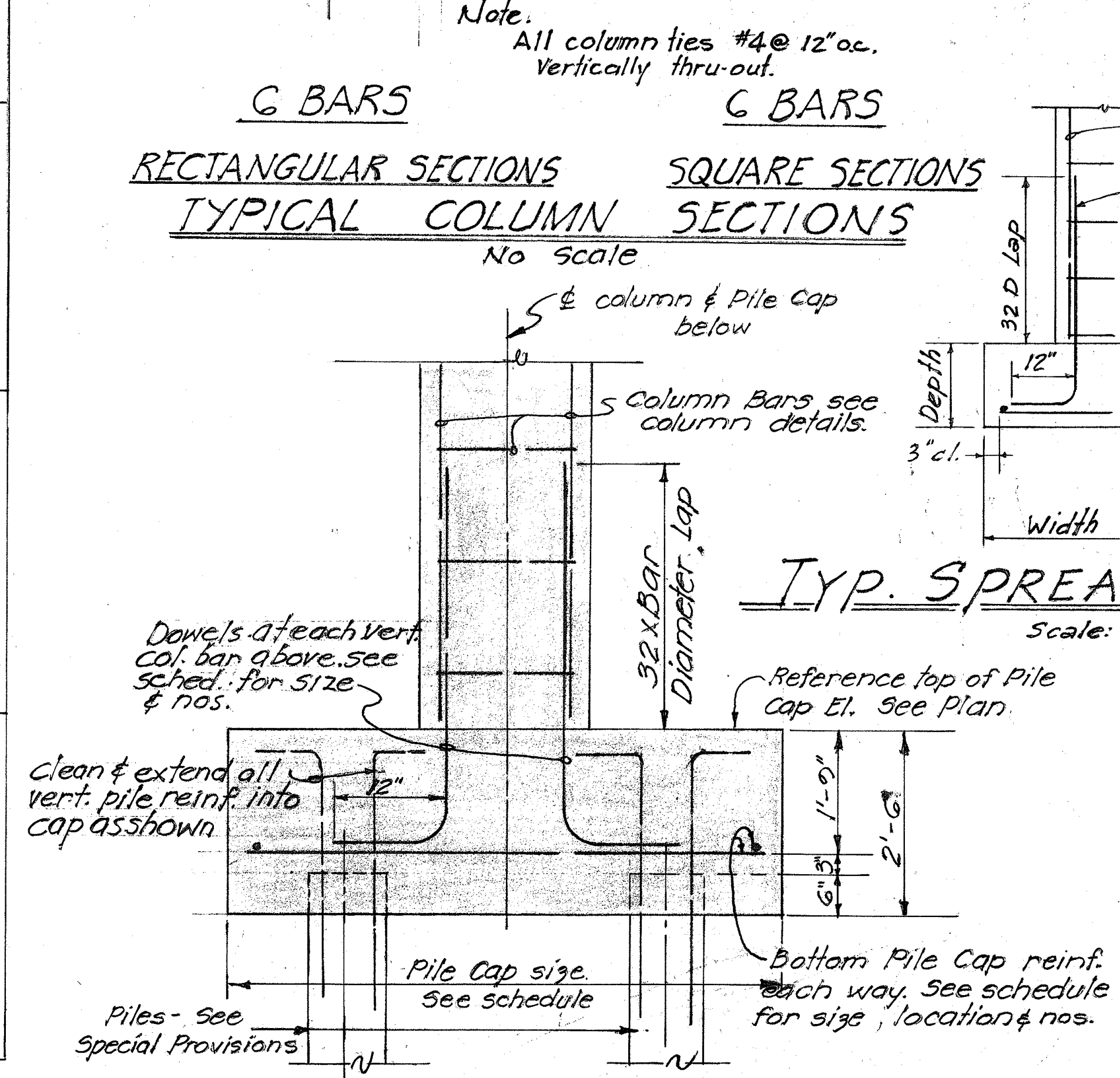
PILE CAP SCHEDULE			
Pile Cap	S.W.	BOTTOM REINFORCEMENT	
		L.W.	S.W.
P2	5'-6" x 5'-6" x 2'-6" L.W. 1'-3" x 1'-6" x 1'-3" S.W. 1'-3" x 1'-6" x 1'-3"	6-#5	4-#5
P3	5'-11" x 5'-11" x 2'-6" L.W. 1'-3" x 1'-6" x 1'-3" S.W. 1'-3" x 1'-6" x 1'-3"	3 bands 6-#5	
P4	6'-0" x 6'-0" x 2'-6" L.W. 1'-3" x 1'-6" x 1'-3" S.W. 1'-3" x 1'-6" x 1'-3"	10-#5	10-#5
P5	6'-0" x 6'-0" x 2'-6" L.W. 1'-3" x 1'-6" x 1'-3" S.W. 1'-3" x 1'-6" x 1'-3"	9-#6	9-#6



SPREAD FOOTING SCHEDULE					
Type	FOOTING SIZE			BOTTOM REINF.	
	LENGTH	WIDTH	DEPTH	L.W.	S.W.
S-1	6'-0"	4'-0"	1'-6"	5-#6	7-#4
S-2	10'-0"	5'-0"	1'-6"	11-#6	11-#4

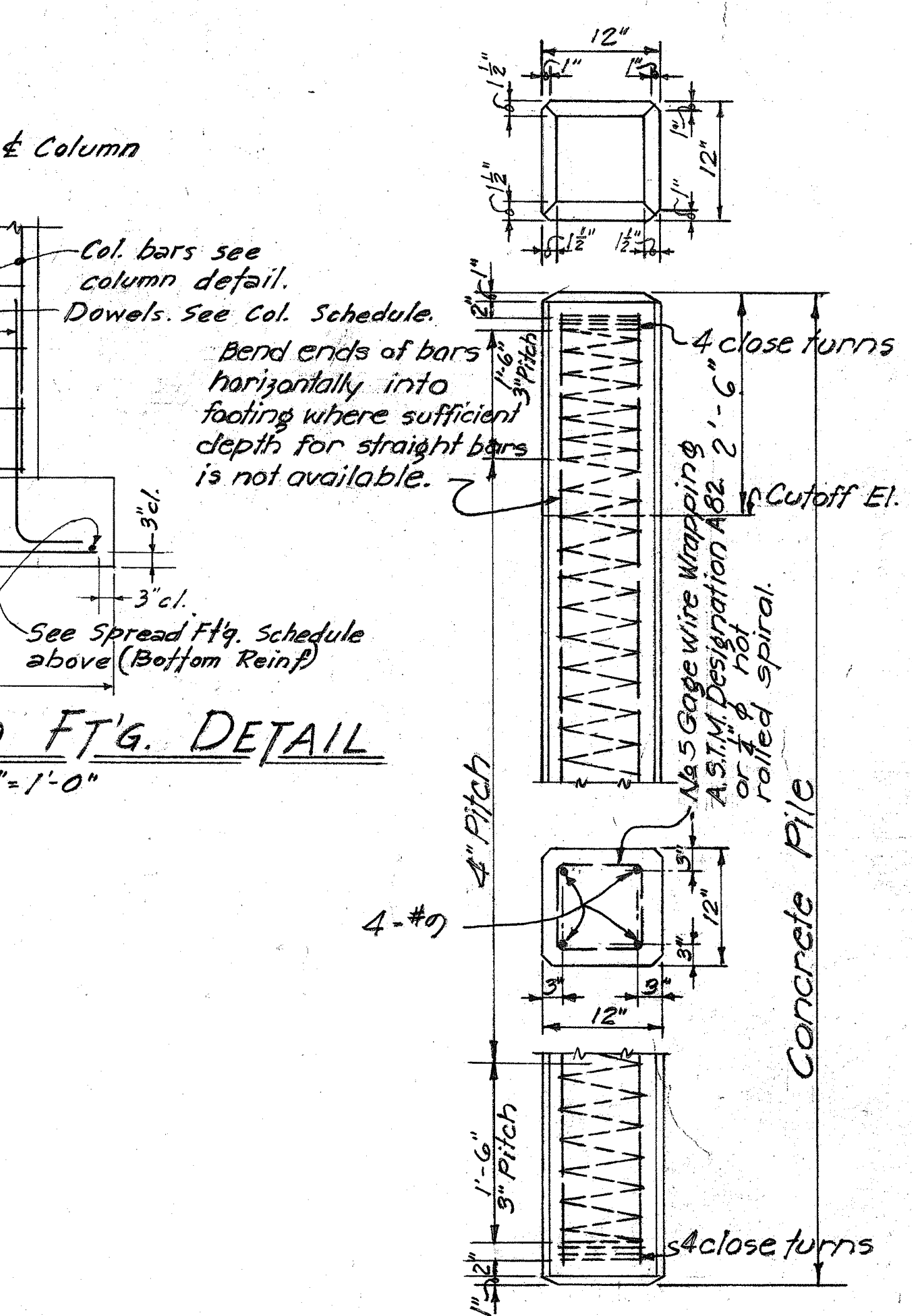


RECTANGULAR SECTIONS SQUARE SECTIONS
TYPICAL COLUMN SECTIONS
No Scale



TYPICAL COLUMN FOUNDATION DETAIL
No Scale

TYPICAL PRESTRESSED CONCRETE PILE DETAIL
Scale: 3/8" = 1'-0"



TYPICAL PRECAST CONCRETE PILE DETAIL
Scale: 3/4" = 1'-0"

GENERAL NOTES

Prestressed Girder
fc = 4200 psi at transfer
7/8" dia. 7-wire strand
Tensioning load = 18,900 lbs.

Prestressed Piles
fc = 3500 psi at transfer
3/4" dia. 7-wire strands
Tensioning load = 14,000 lbs.

SPECIFICATION: AASHTO
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, see Special Provisions.
Admixture - See Special Provisions.

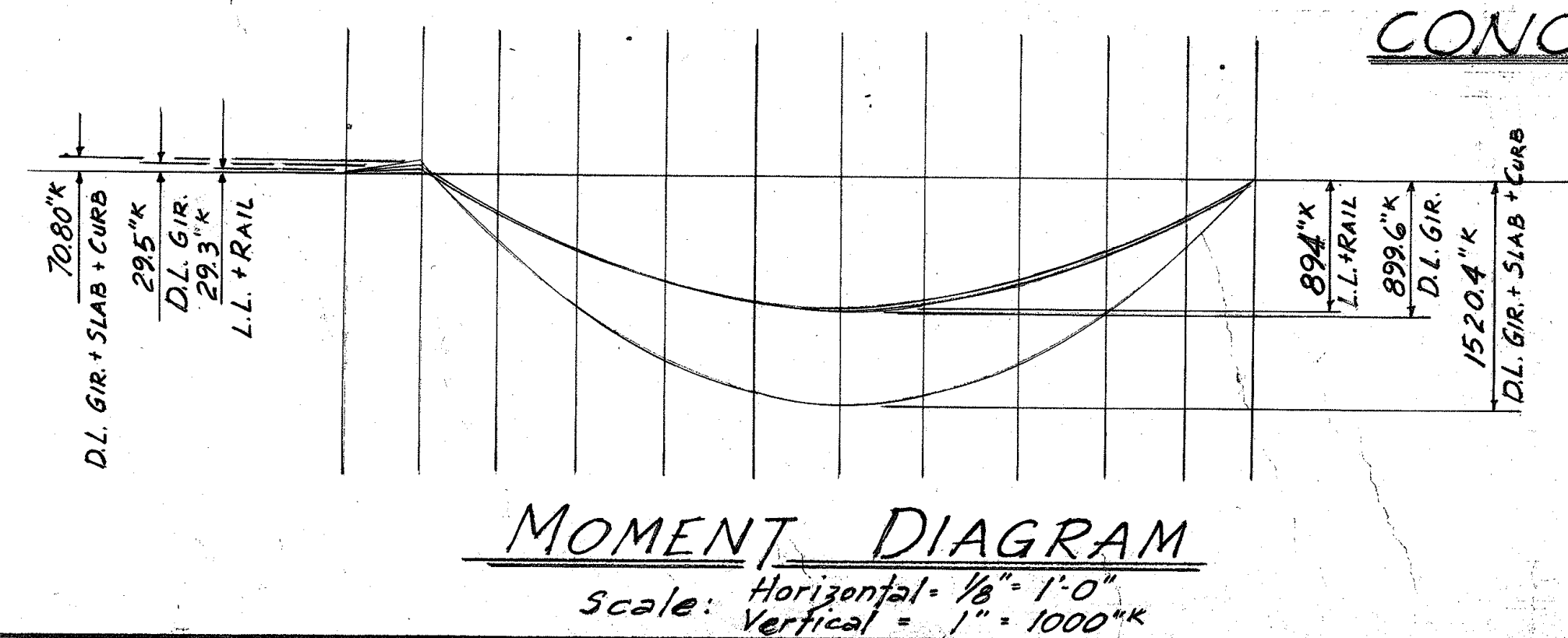
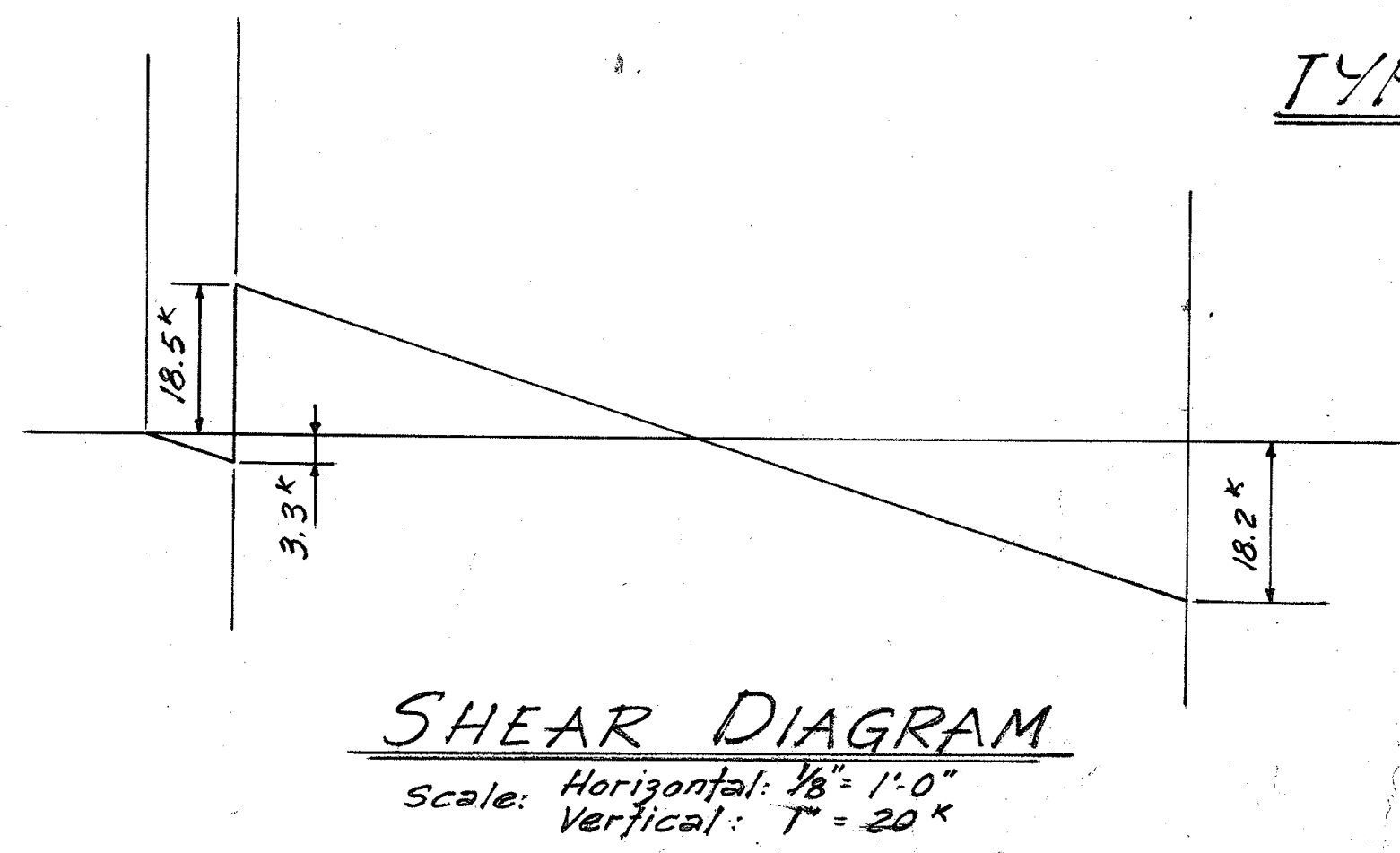
CONSTRUCTION METHODS
General - See Special Provisions
Welding - All welding shall conform to the latest specifications for Welding Highway & Railway Bridges, Design, Construction and Repair of the American Welding Society.
Forms - Formwork for all exposed surfaces of structure (except prestressed girders & piles) shall be plywood. Forms for prestressed girders shall be made of material that will produce a smooth finish & true dimensions as shown in the plans.
Finish - See Standard Specifications for finish except as noted on Normal Section on sheet #4. Top surface of deck, stairs, and landings shall have a rough wearing surface produced by sprinkling uniformly 1 1/2 cu ft. of #8-#16 size Aluminum oxide on fresh concrete and finished 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 & unless otherwise noted.

Repairs to Galvanising on pipe Railings - see sect. 443 (1) of Special Provisions.

Piling - Leads shall be used, but may be of the suspended type.

PILE SCHEDULE				
Col. No	Pile Cut-off Elev.	Pile Tip Elev.	Nº of Piles	Pile Length
1	186.0	168.0	4	20.5'
2	186.0	168.0	3	20.5'
3	190.0	168.0	4	24.5'
4	191.0	168.0	2	25.5'
5	191.0	168.0	4	25.5'
6	← Spread Footing			
7	← Spread Footing			
8	198.0	176.0	3	24.5'
9	201.0	176.0	5	27.5'

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STATE OF HAWAII
TYPICAL DETAILS
PEDESTRIAN OVERCROSSING 1 & 2
HAKALAO, HAWAII - #1
PAI PAI KOU, HAWAII - #2
APRIL 1961



DATE: _____
SURVEY PLOTTED BY: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
ORIGINAL PLAN NO. _____
NOTE BOOK NO. _____