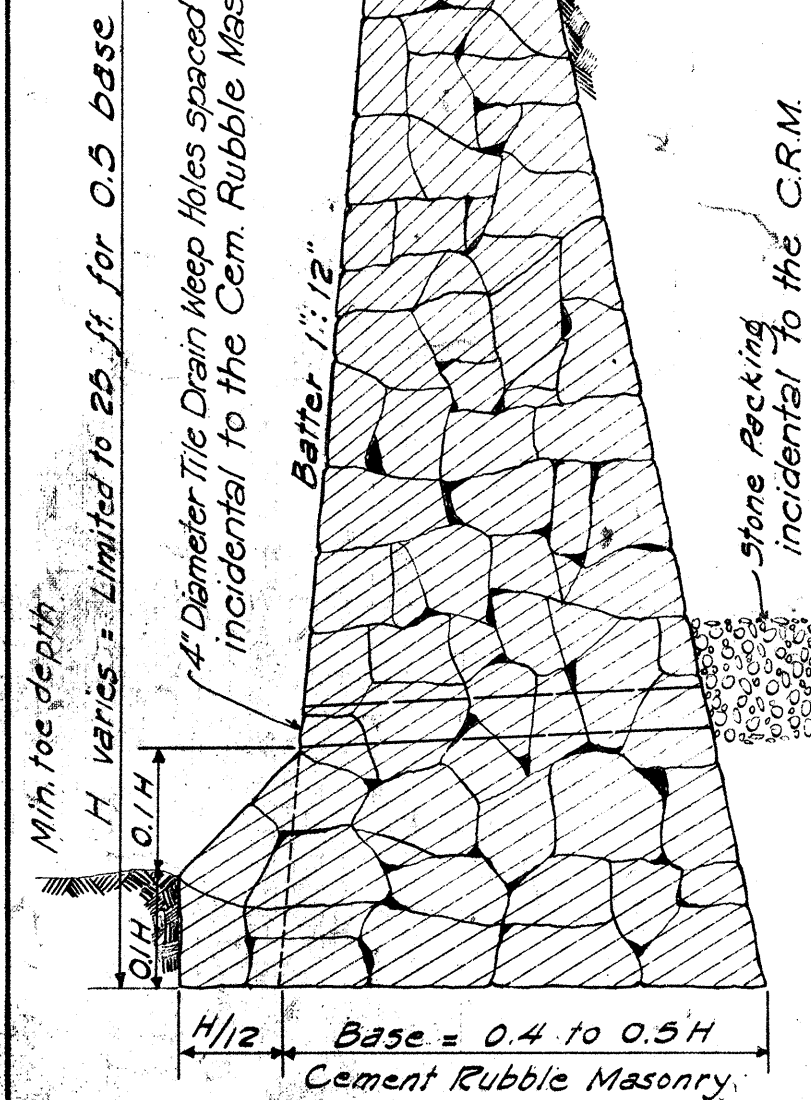


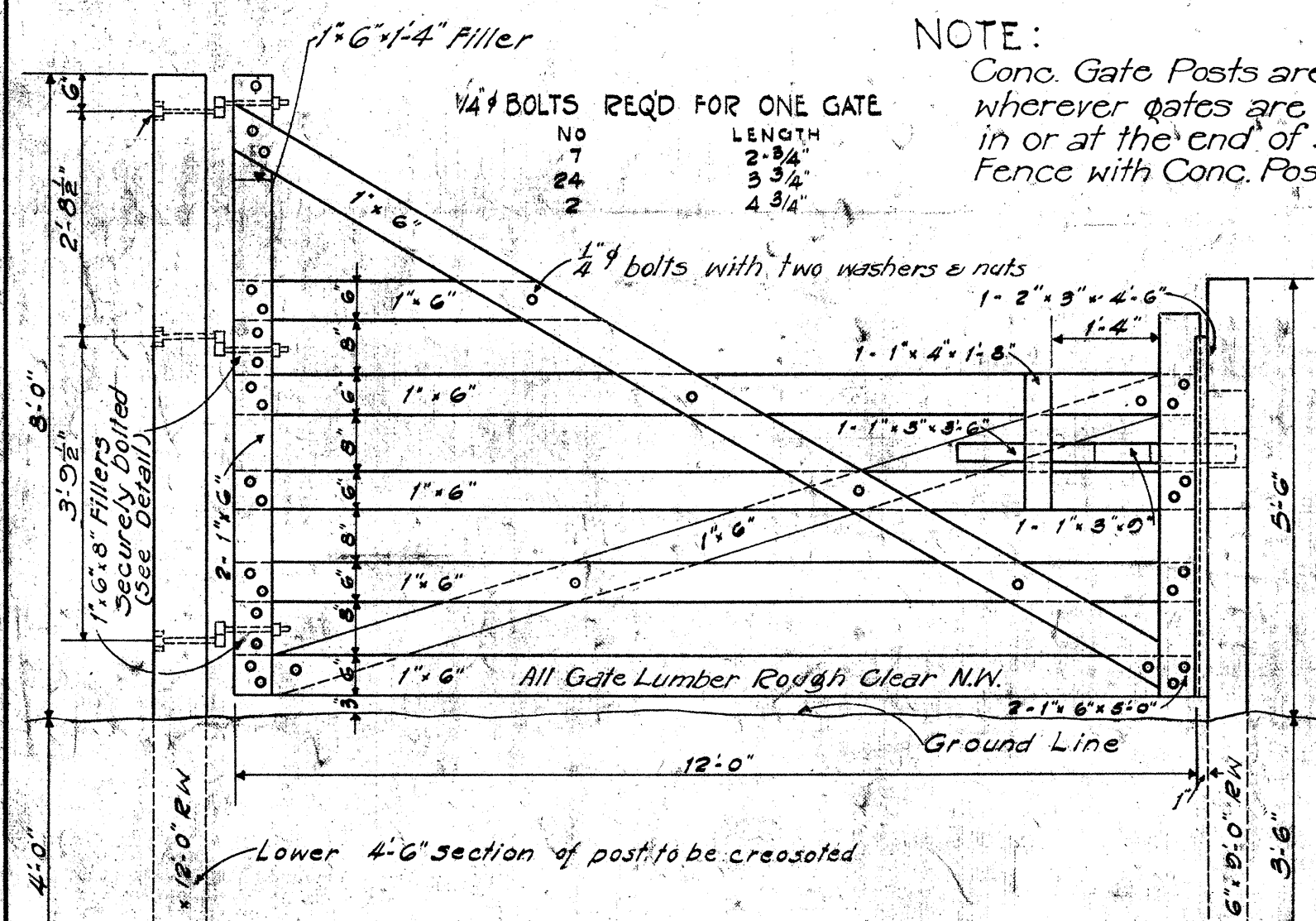
Note: TO RESIDENT ENGINEER
Consider economy of reinf. cage for high retaining walls which do not originate on plan layout.



STANDARD SECTION OF LOW MASONRY RETAINING WALL OR SEAWALL

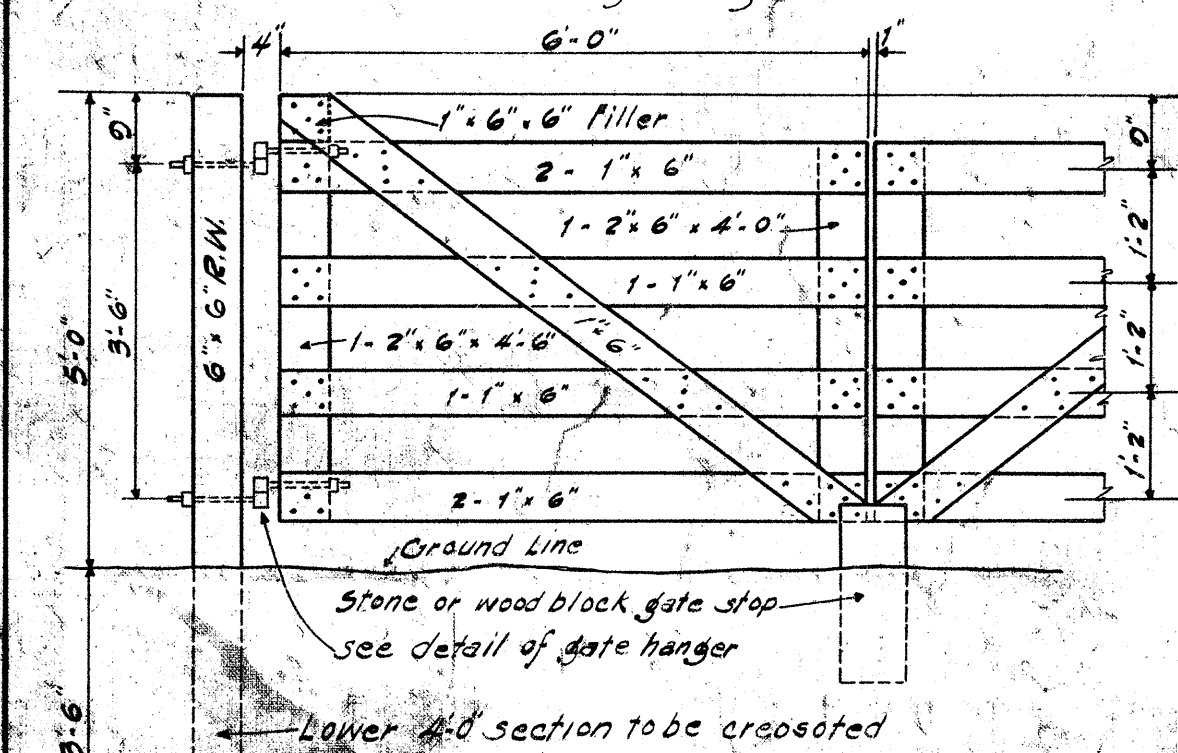
NOTE: Elevation of weep holes to be determined by Resident Engineer. Holes to be placed as close to the existing ground line as local conditions permit.

STANDARD SECTION OF HIGH CEMENT RUBBLE MASONRY RETAINING WALL OR SEAWALL



DETAIL OF STANDARD CATTLE GATE

Scale: 1/2" = 1'-0"
See Note regarding use of Concrete Posts.



DOUBLE HUNG GATE

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

See Note regarding use of Concrete Posts.

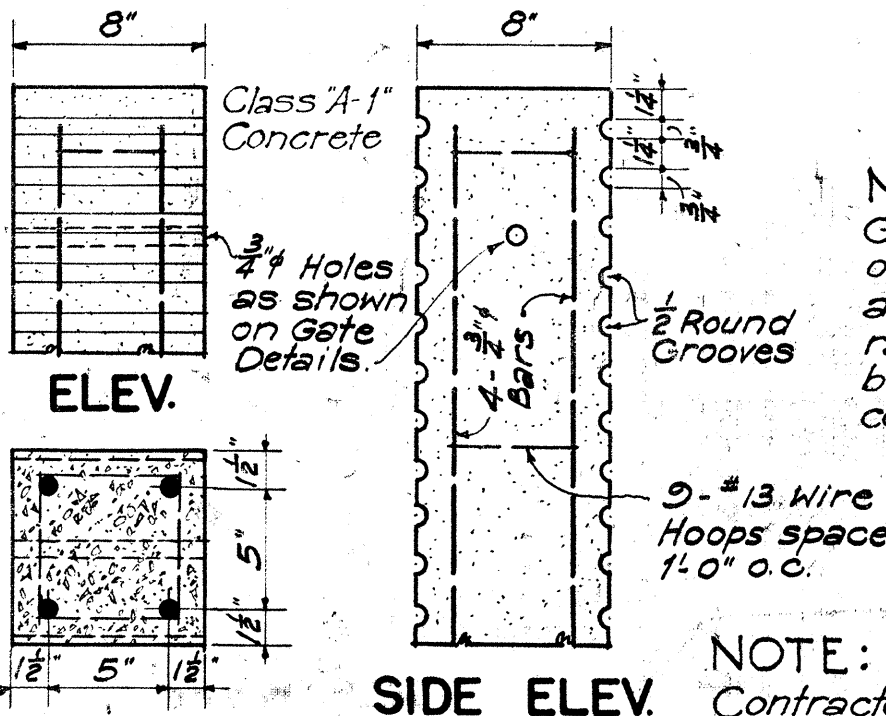
DETAIL OF GATE HANGER

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

Note: Use 3/4" x 11" bolts for cattle gate

Data	Standard	Masonry	Drop	Intake	Where Variable Equals
0'	D	L = D + 6"	Cu. Yds		
22 1/2"	18"	2'-0"	2.41	4'-6"	
29"	24"	2'-6"	2.89	5'-0"	
35 1/2"	30"	3'-0"	3.38	5'-6"	
42"	36"	3'-6"	3.92	6'-0"	

NOTE: Dimension "X" is assumed as 2'-4" in figuring the above quantities.



STANDARD MASONRY DROP INTAKE

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

NOTE: Guard rails are to be of the same shape and weight as main rails. Details may be varied to suit conditions in field.

NOTE: Contractor may either cast holes for fastening fence wire or cast post with 3/4 inch round grooves on 2 sides.

CONC. GATE POST

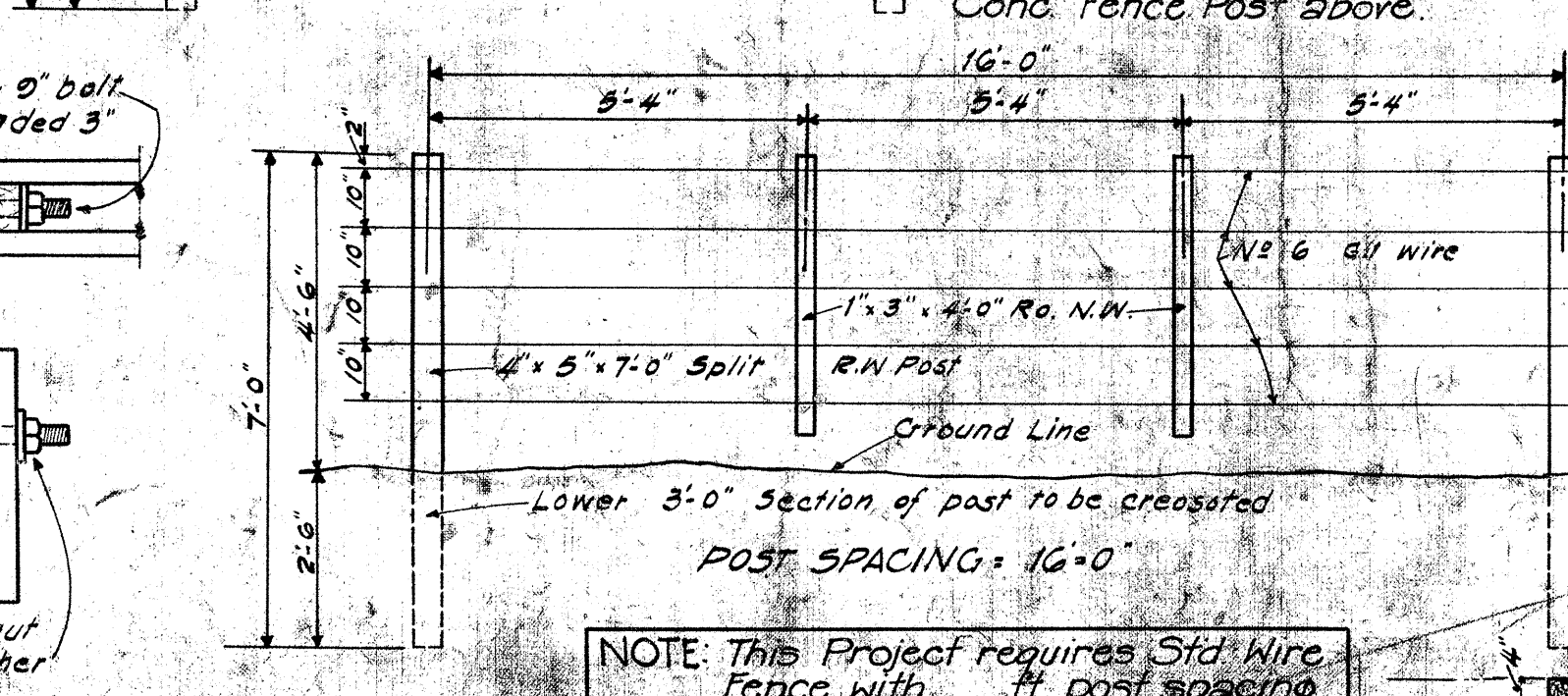
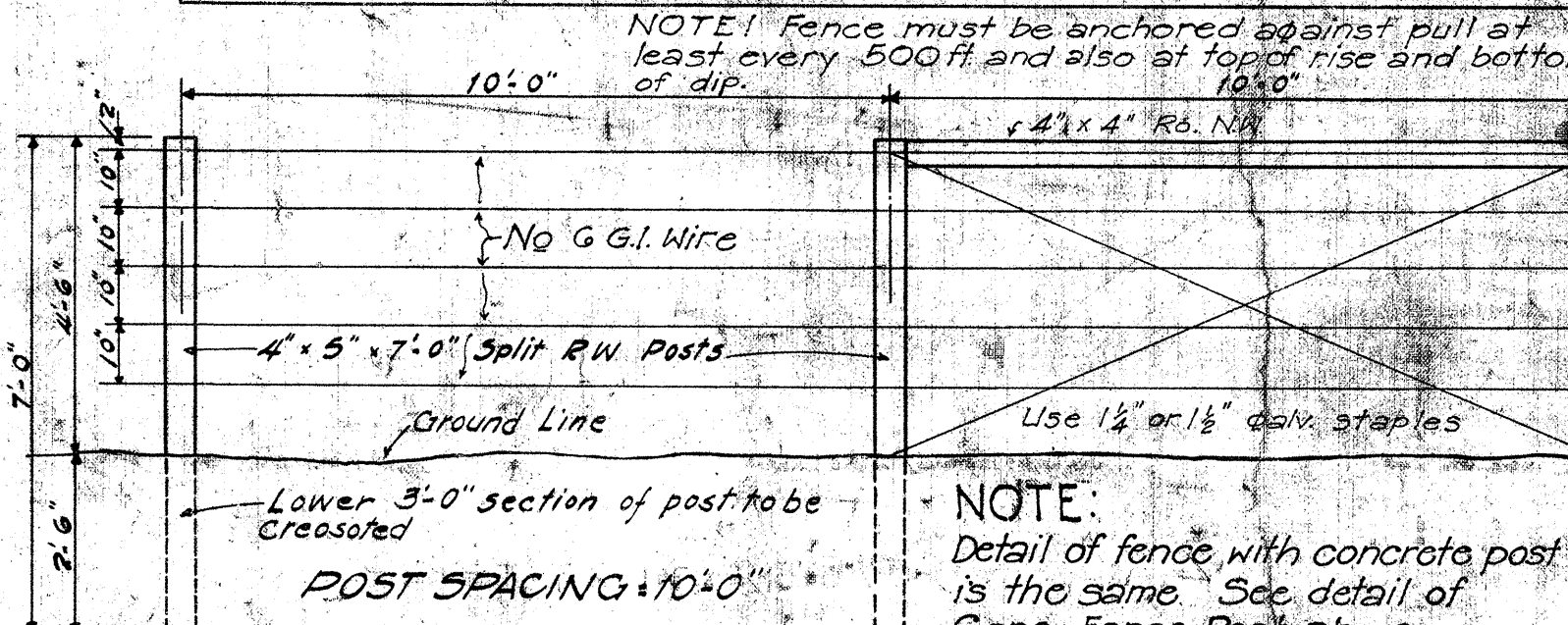
Scale: 1-1/2" = 1'-0"



CONC. FENCE POST

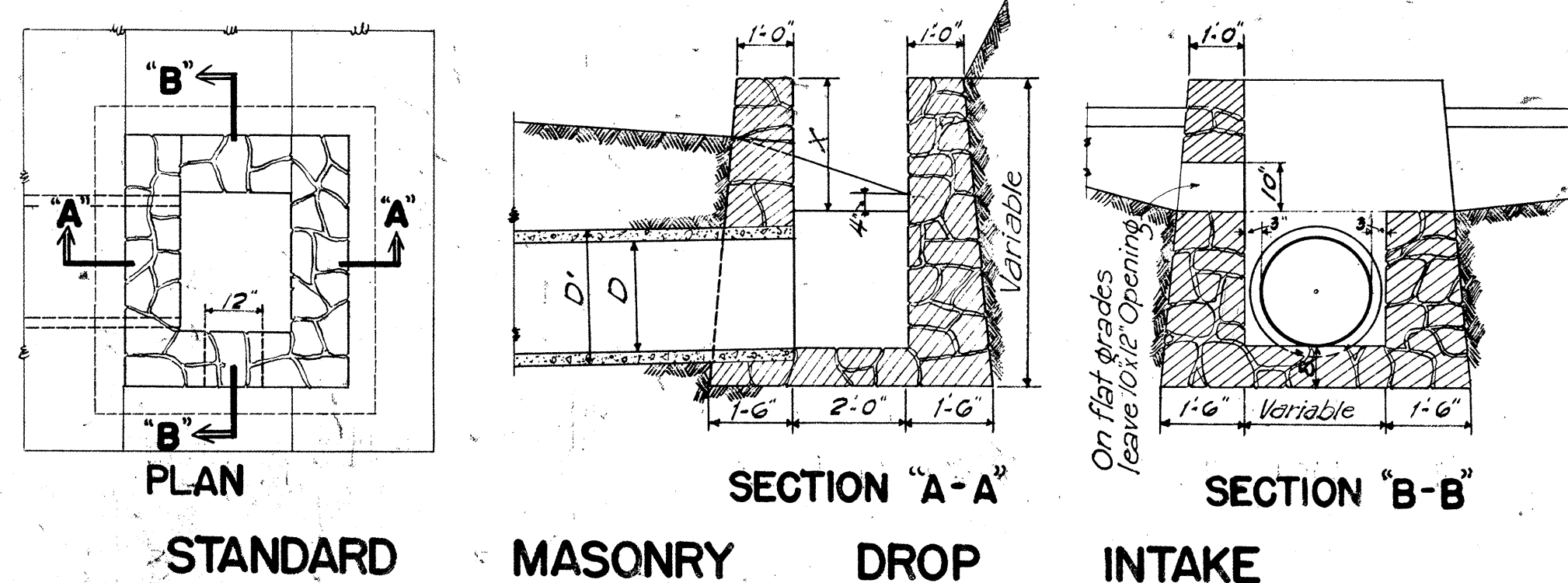
Scale: 1-1/2" = 1'-0"

STANDARD GUIDE POSTS: 5x8 Rein. Conc. Guide Posts are the same as those used for Std Wood Guard Rail spaced 18'-0" oc unless otherwise specified.



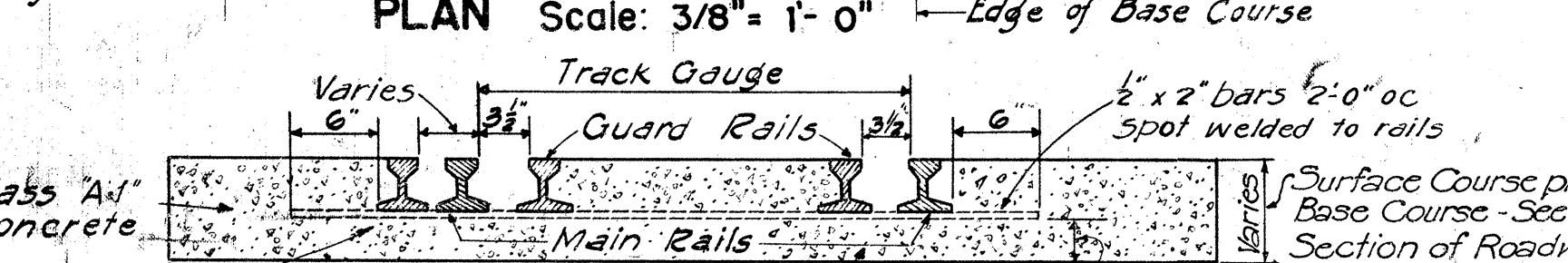
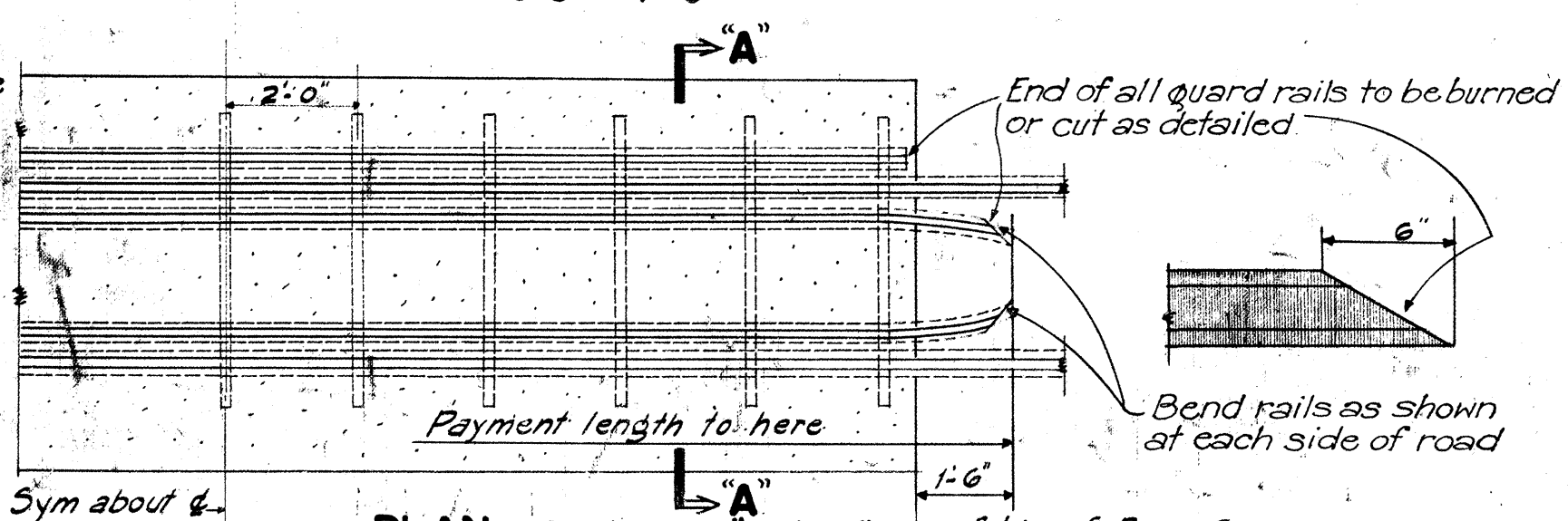
DETAILS OF STANDARD WIRE FENCE WITH WOODEN POSTS

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



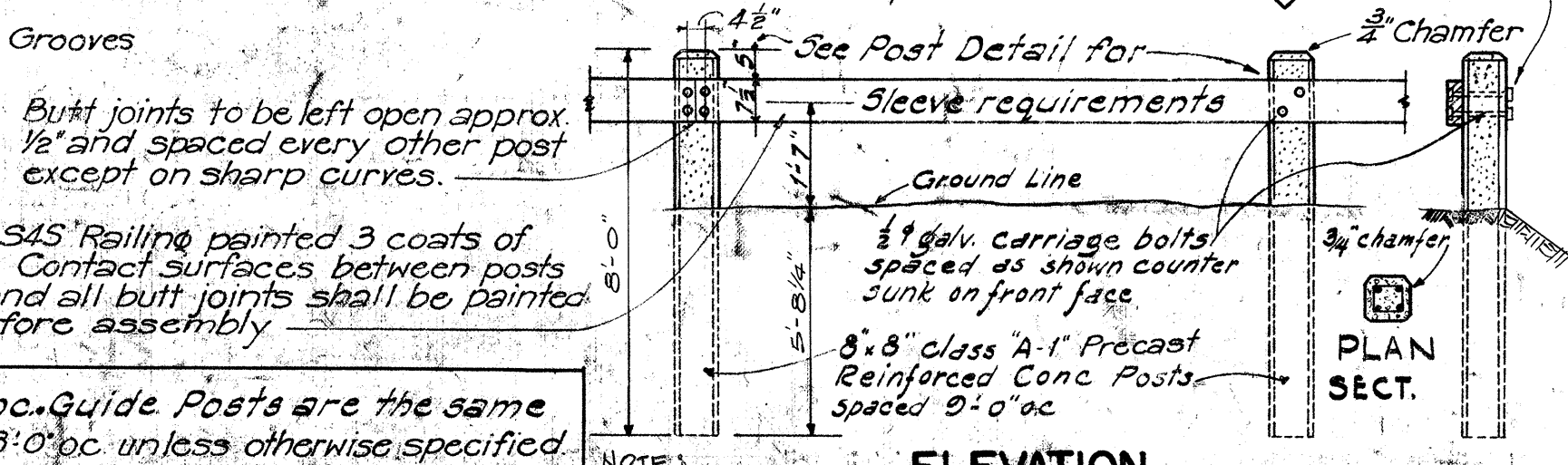
STANDARD MASONRY DROP INTAKE

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



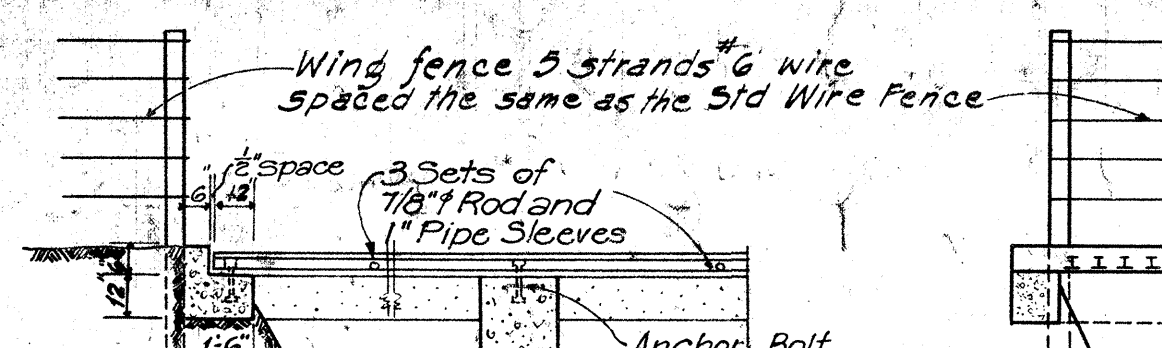
INDUSTRIAL TRACK CROSSING

NOTE: Use Type 'A' if neither Type 'A' or 'B' is specified.



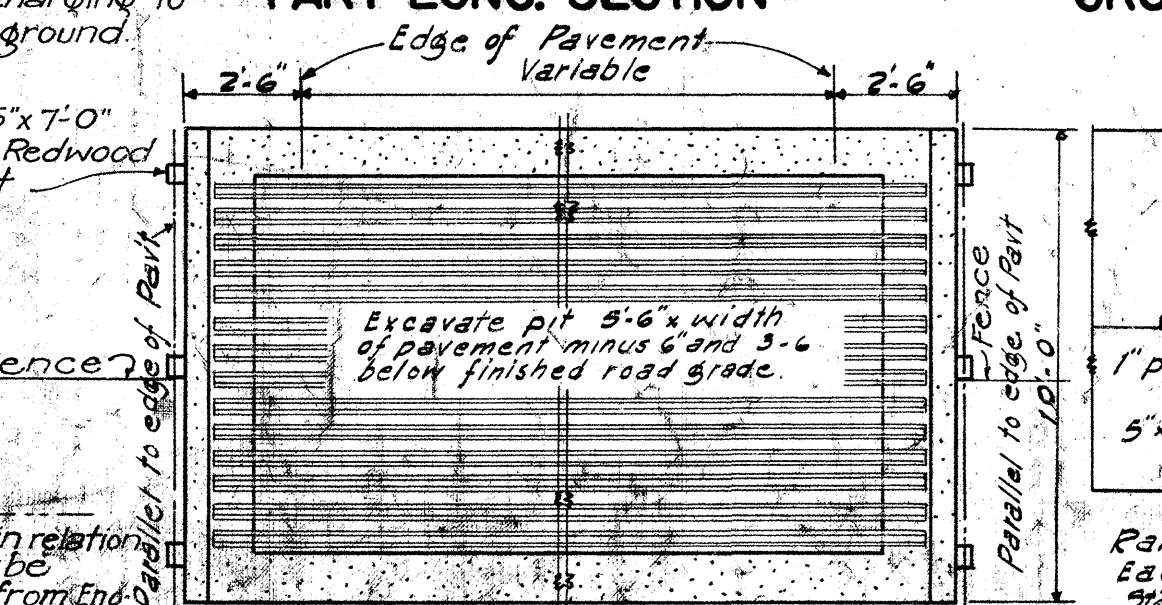
STANDARD WOOD GUARD RAIL WITH CONC. POSTS

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

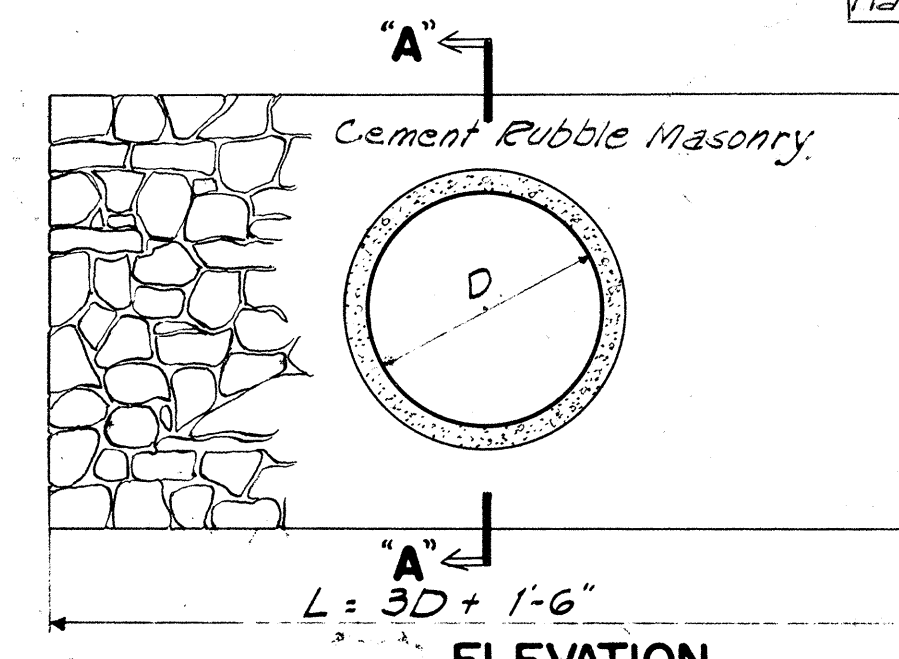


PART LONG SECTION

CROSS SECTION



DETAILS OF CATTLE GUARD



STANDARD MASONRY HEADWALL

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

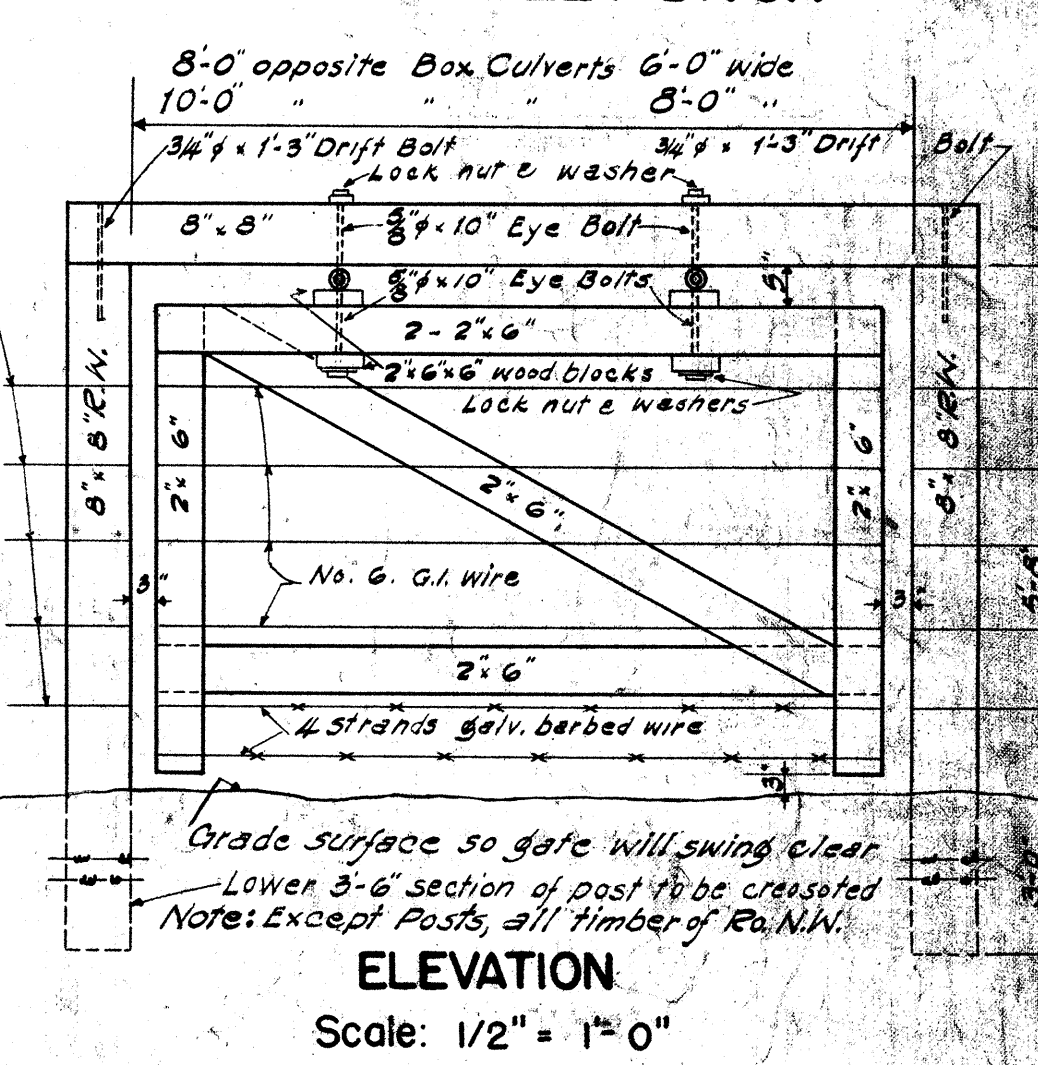
Cast-in-Place	Precast	Data-Standard	Rubble Masonry	H.W.	Cu. Yds.
0.85	0.95	18"	3'-6"	1'-0"	0.03
1.23	1.45	24"	4'-0"	2'-0"	1.41
1.83	2.06	30"	4'-6"	2'-3"	2.00
2.40	2.84	36"	5'-0"	2'-6"	2.72

STANDARD MASONRY HEADWALL

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

Data-Standard	Outlet Ditch	D	W	H	T = W + H	Cu. Yds.
18"	24"	2'-0"	4'-0"	4'-0"		
24"	24"	2'-0"	4'-0"	4'-0"		
30"	30"	2'-0"	5'-0"	5'-0"		
36"	36"	3'-0"	6'-0"	6'-0"		

DETAIL OF STANDARD OUTLET DITCH



ELEVATION

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

LAYOUT SHOWING HURDLE PLACED BELOW CULVERT IN A POSITION WHICH WILL BE CATTLE TIGHT

DETAILS OF HURDLE

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

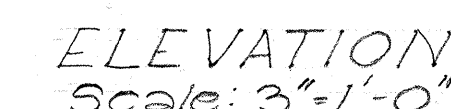
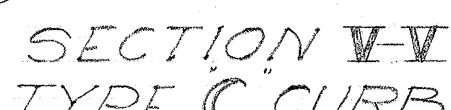
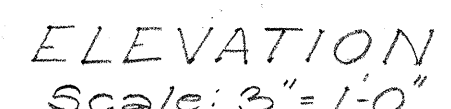
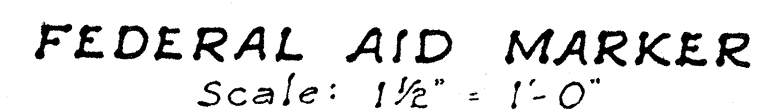
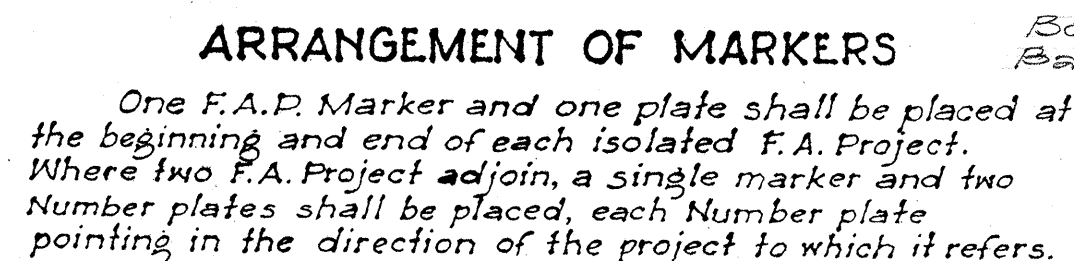
STANDARD DETAILS

SCALES AS NOTED

APPROVED: *[Signature]* Apr. 15, 1948

Territorial Highway Engineer
SHEET NO. 1 OF 3 SHEETS

5589.10



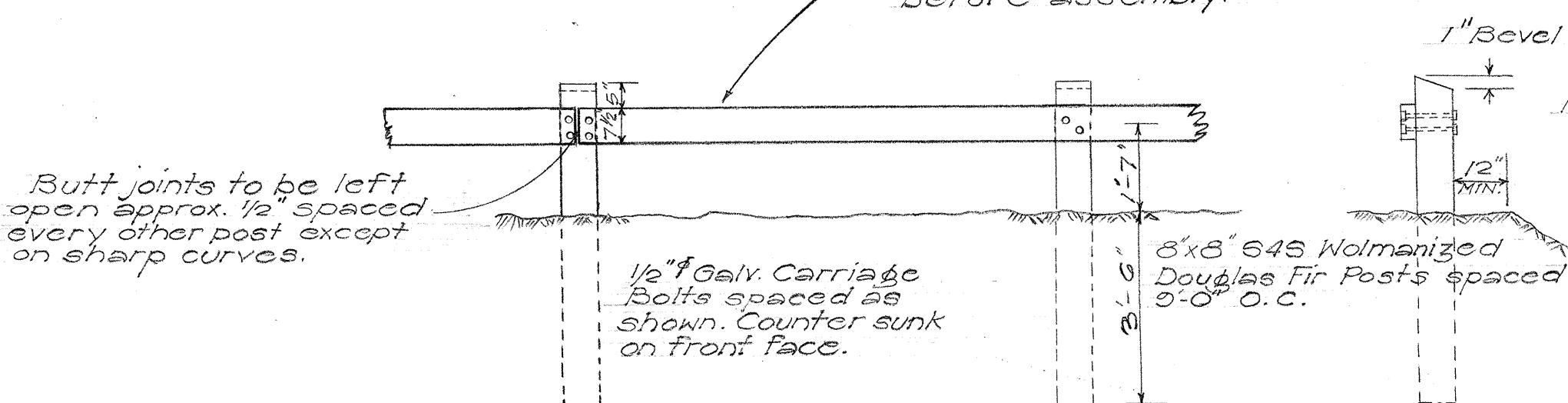
4'-0" 1'-10" 4'-0" 1'-10" 4'-0"

THIS TYPE AND SPACING OF RECESSES
SHALL BE USED FOR TYPE "B" CURB

Oversize Galv. Washer with Nut.



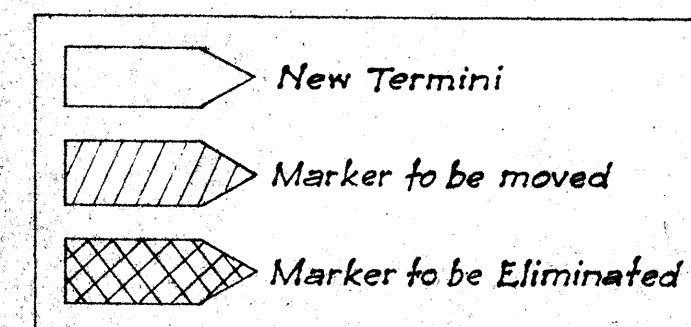
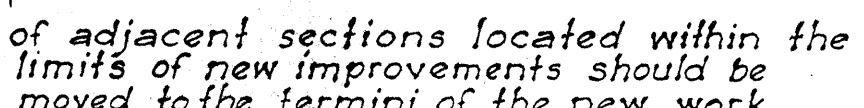
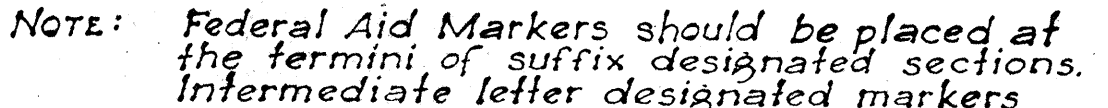
4"x8"x18'-0" S4S railing painted 3
Coats of White paint. Contact surfaces
between posts and rails and all butt
joints shall be painted 3 coats
before assembly.



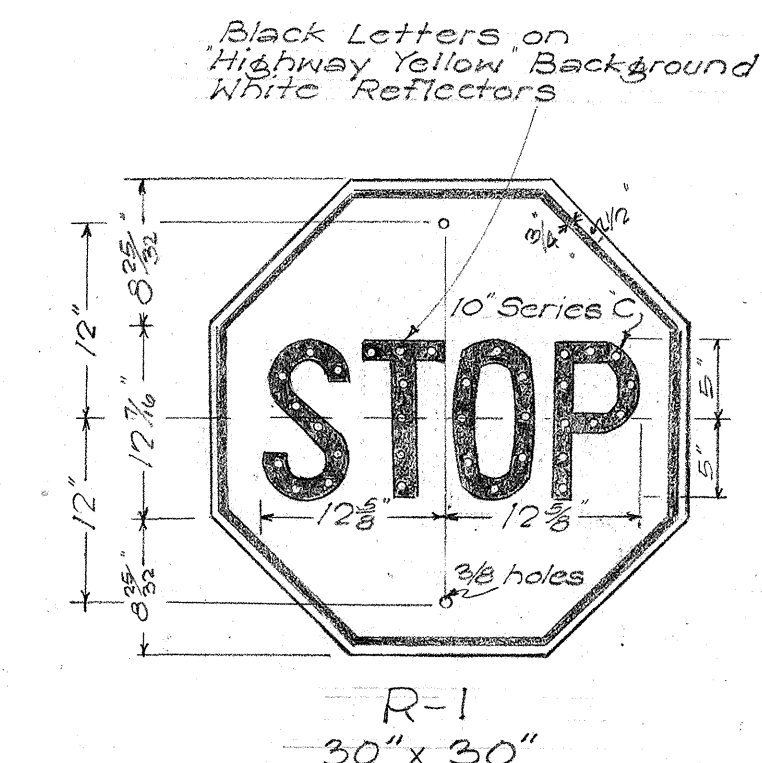
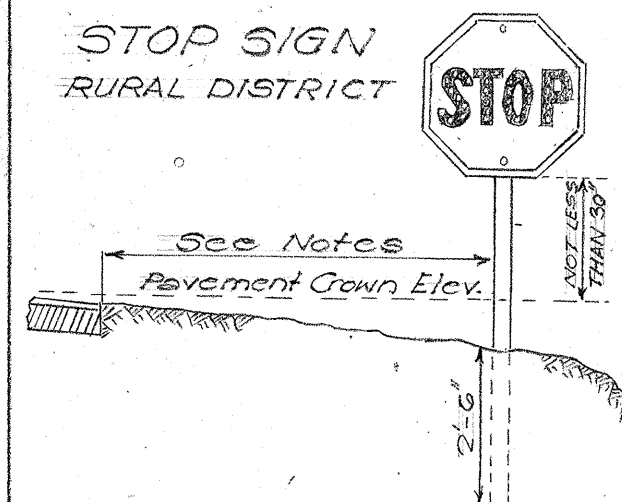
Butt joints to be left open approx. $\frac{1}{2}$ " spaced every other post except on sharp curves.

Notes:
 All bolt holes in posts shall be drilled before treatment with Wolman salt.
 Posts shall be painted the same as called for in the railings.

WOOD GUARD RAIL W/WOOD POSTS
Scale: $\frac{3}{8}'' = 1'-0''$



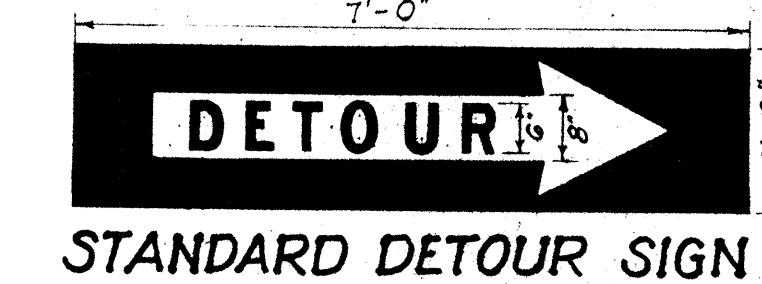
METHOD OF MARKING F.A. PROJECTS AT OVERLAPS



REGULATORY SIGN
Scale: 1"=1'-0"

Notes:

All signs shall be placed 10' from edge of pavement except where shoulder width is less than 10', in which case signs shall be placed at edge of shoulder. Where sign is located adjacent to a curb, the left edge of the sign shall be not less than 1 foot nor more than 2 feet from the face of the curb.



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

STANDARD DETAILS

SCALES AS NOTED May 31, 1949

APPROVED: Wm. Selt
Territorial Highway Engineer

SHEET N^o 3 OF 3 SHEETS