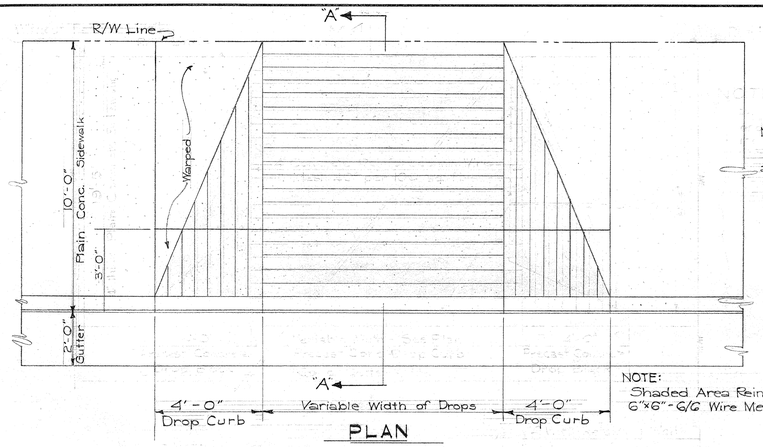
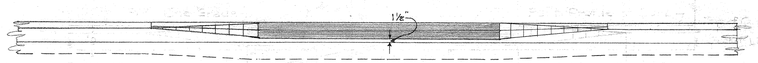
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
Hawaii	HAW.	DF098-1(5)	1958	30	115



NOTE:
Concrete Drop Curb and Gutter will be paid as Type "DG" Curb and Gutter.

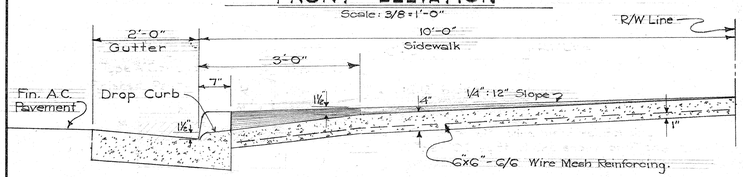
NOTE:
Shaded Area Reinforced With 6"x6"-6/6 Wire Mesh.

PLAN



FRONT ELEVATION

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

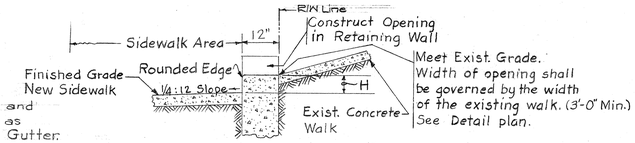


SECTION A-A

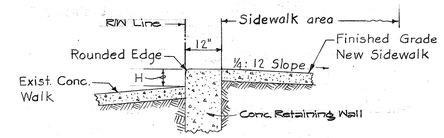
Scale: 3/8" = 1'-0"

DETAIL OF REINFORCED CONC. DROP DRIVEWAY

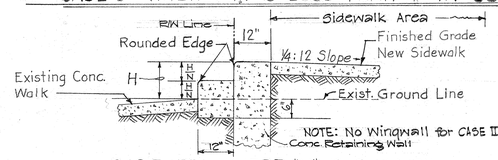
SCALE: 3/4" = 1'-0"



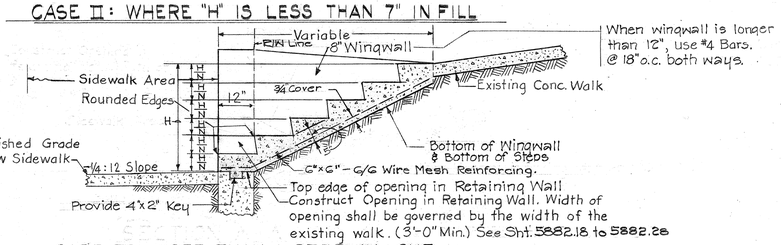
CASE I: WHERE "H" IS LESS THAN 7" IN CUT



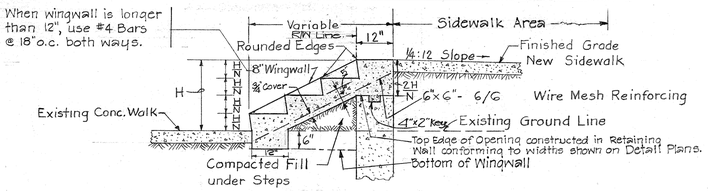
CASE II: WHERE "H" IS LESS THAN 7" IN FILL



CASE III: WHERE "N" IS 2 IN FILL



CASE IV: MORE THAN 1 STEP IN CUT



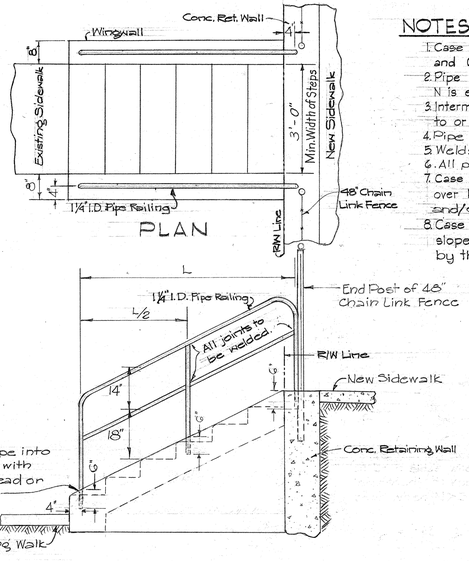
CASE V: WHERE "N" IS MORE THAN 2 IN FILL

NOTES:
1. H = Difference in elevation.
2. N = Number of risers (varies to fit actual conditions).
3. N = As nearly 6" as possible, but at no time greater than 7".

DETAIL SECTIONS OF STEPS

SCALE: ½" = 1'-0"

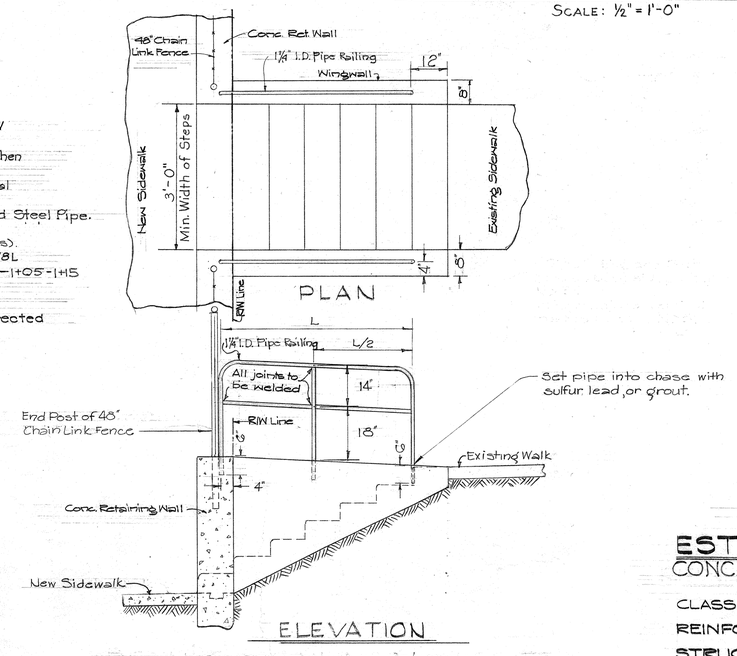
NOTES:
1. Case A and Case B Railing Details refer to Case V and Case IV Step Detail, respectively.
2. Pipe railing and posts required on both sides when N is equal to or greater than 4, both cases.
3. Intermediate vertical post required when N is equal to or greater than 6, both cases.
4. Pipe railings and posts shall be 1¼" I.D. Galvanized Steel Pipe.
5. Welds on pipe shall be ground smooth.
6. All pipes shall be painted (See special provisions).
7. Case B type railing required at ℄ Sta. 97+00L, 97+78L over R.C. Wingwall and 101+65L, ℄ Liliha St. Sta. -1+05'-1+45 and/or as directed by the Engineer.
8. Case A type railing required at sta. 97+78L over sloped C.R.M. Retaining Wall and and/or as directed by the Engineer.



PLAN

ELEVATION

CASE A: IN FILL



PLAN

ELEVATION

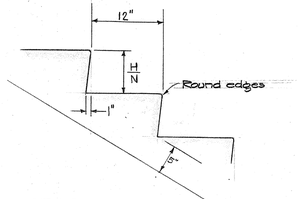
CASE B: IN CUT

DETAILS OF RAILING

Scale: ½" = 1'-0"

NOTES: Top surface of Concrete steps (treads) shall have a rough wearing surface produced by sprinkling ½#/sq ft of #8, #16 Aloxide or equal in fresh concrete and finishing it with a wood trowel. This item is considered incidental to class "A-1" Concrete. All other exposed surface shall have Class 2 rubbed finish.

Retaining Walls and Wingwalls shall be monolithic.



TREAD AND RISER DETAIL

Scale: 1" = 1'-0"

ESTIMATED QUANTITIES

CONC. STEPS, WINGWALLS AND OTHER RETAINING WALLS

CLASS A-1 CONCRETE	-	18	Cu. Yds
REINFORCING STEEL	-	700	LBS.
STRUCTUREL EXCAVATION	-	25	Cu. Yds.
METAL RAILING	-	75	L.F.
C.R.M.	-	15	Cu. Yds.

(NO AS-BUILT CHANGES ON THIS SHEET)

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MISCELLANEOUS DETAILS

VINEYARD THOROUGHFARE
PALAMA ST. TO FORT ST.
PROJECT Nº DF-098-1(5)

Scale: As Noted

SHEET No. 1 OF 1 SHEETS

5882.30

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

PRINTED ON DIEPO 1000H CLEARPRINT