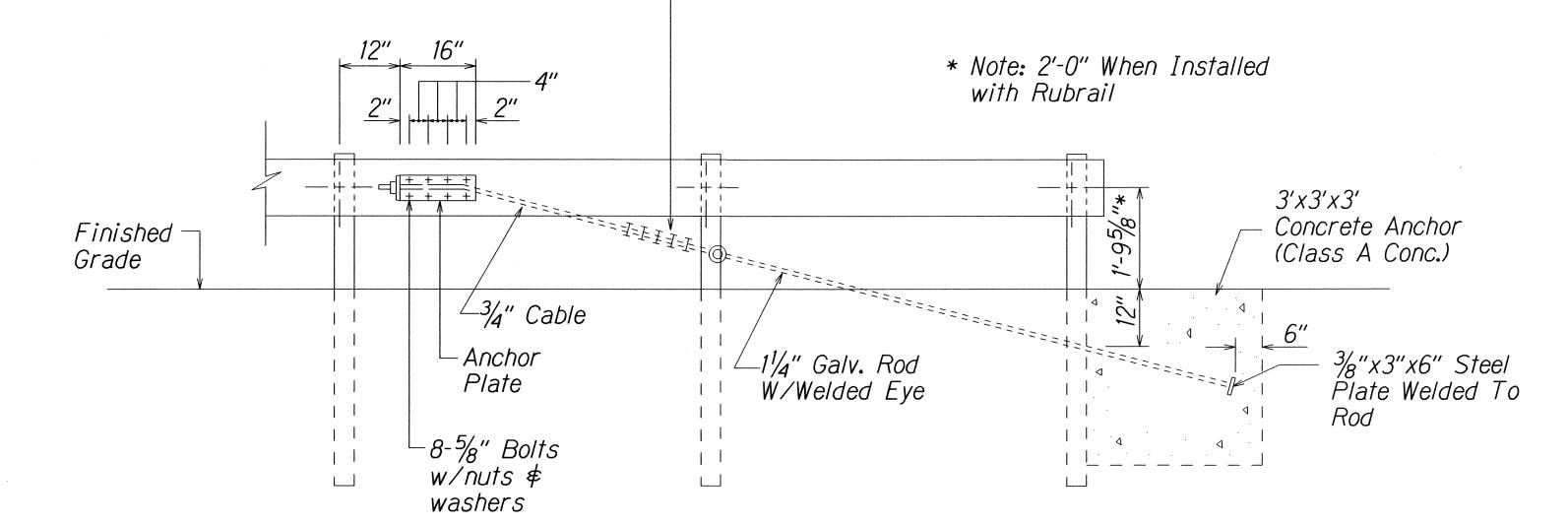


W/5 Cable Clips -

SURVEY PLOTTY
DRAWN BY \_\_\_\_
TRACED BY \_\_\_
DESIGNED BY \_\_\_
QUANTITIES BY \_\_\_
CHECKED BY \_\_\_

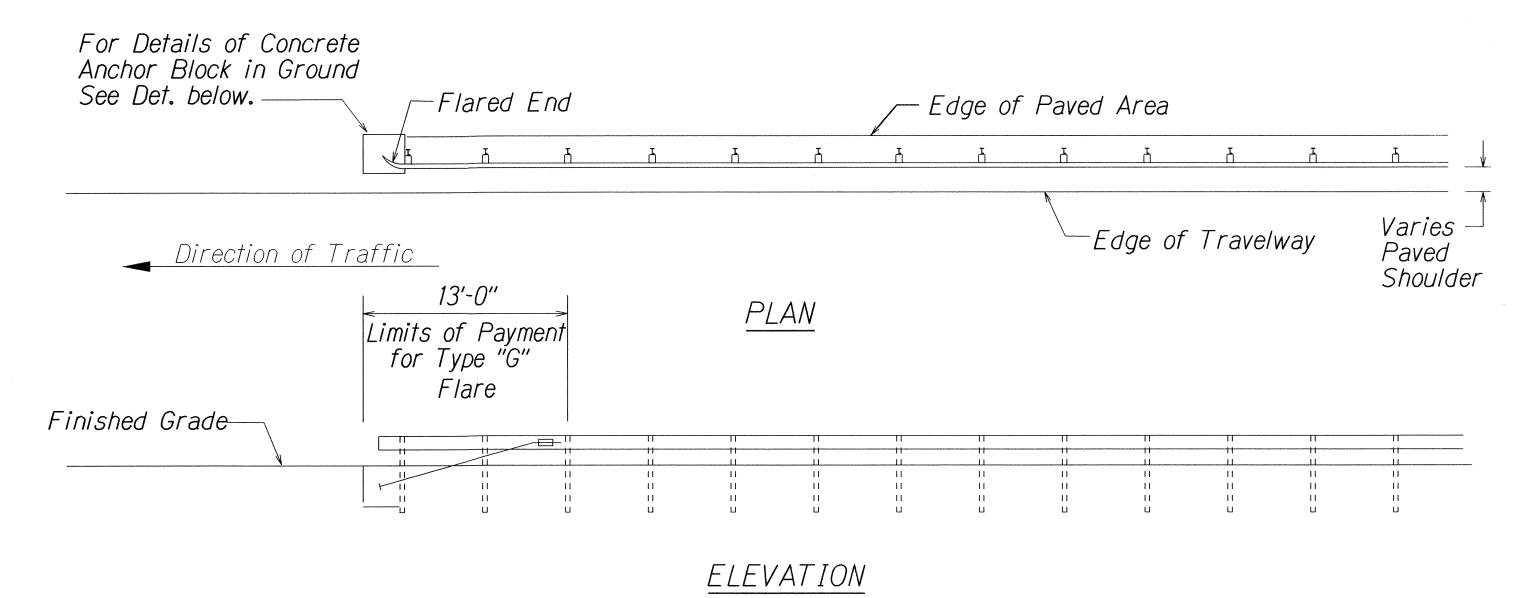


ANCHOR BLOCK DETAIL

1. Concrete, G.R.P., excavation, anchor rod and miscellaneous appurtenances necessary to anchor the guardrail ends shall be incidental to metal guardrail.

FED. ROAD DIST. NO. STATE FED-AID PROJ. NO. FISCAL YEAR NO. SHEETS

HAWAII HAW. STP-0700(067) 2016 10 17



## TYPE "G" FLARE END TERMINAL

## <u>NOTE:</u>

Type "G" Modified End Terminal is a site specific end terminal with a taper and radial termini. A site specific detailed drawing is required for all Type "G" Modified End Terminal and must receive Engineer's approval.

The taper (flare rate) of the guardrail shall follow the latest edition of AASHTO'S Roadside Design Guide (currently, Table 5.6 - Suggested Flare Rate for Barrier Design, page 5-21, Jan. 1996 edition).

The radius of the radial termini is an Engineer's judgement based on the site evaluation. The Engineer shall consider safety (minimize the spearing \$\psi\$ blunt end situation); degree and potential seriousness of the hazard; bicycle and pedestrian accessibility; maintenance equipment accessibility; Right-of-Way availability; the smallest radii the metal w-beam/thrie-beam railing can be constructed (check with supplier/contractor); posted speed limit; angle of vehicle impact; and aesthetics when designing the Type "G" Modified End Terminal.

During construction, the Contractor shall layout the proposed Type "G" Modified End Terminal and receive approval from the Construction Engineer prior to installation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPE "G" TERMINAL END

GUARDRAIL AND SHOULDER IMPROVEMENTS

AT VARIOUS LOCATIONS

Kuhio Highway, ROUTE 56 (M.P. 3.70)

Kuhio Highway, ROUTE 560 (M.P. 6.25)

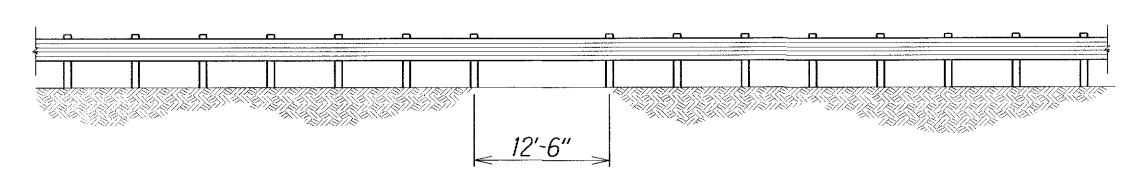
Fed-Aid Proj. No. STP-0700(067)Not to ScaleDate: October 2015

SHEET NO.

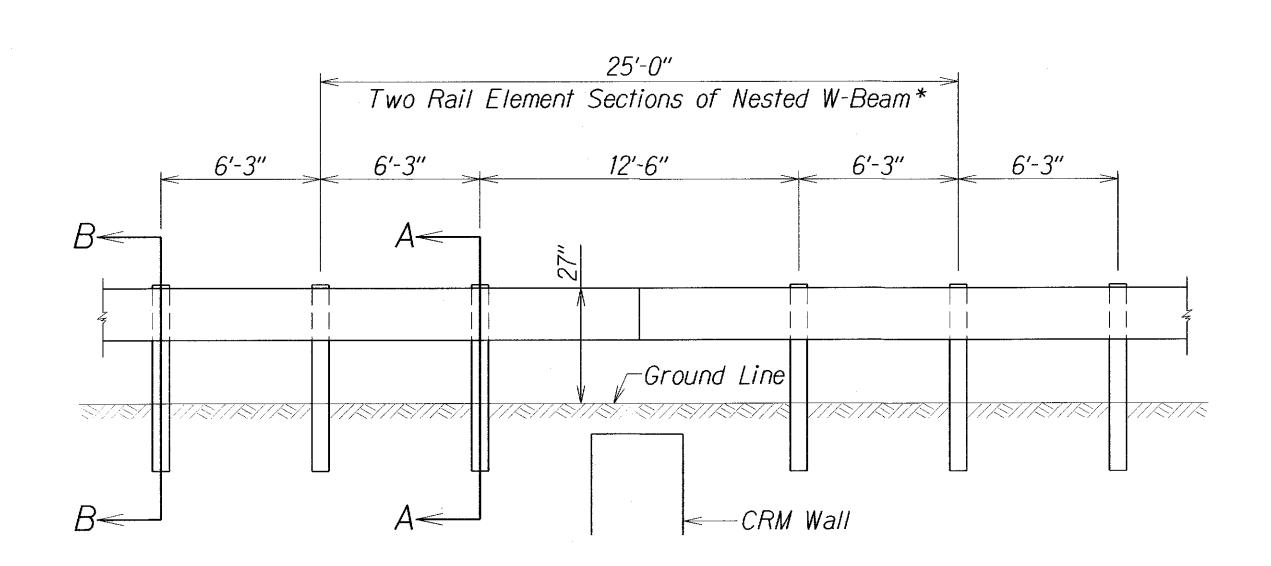
4 or 7 s

10

FED. ROAD	STATE	FED-AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	STP-0700(067)	2016	ADD. 11	17



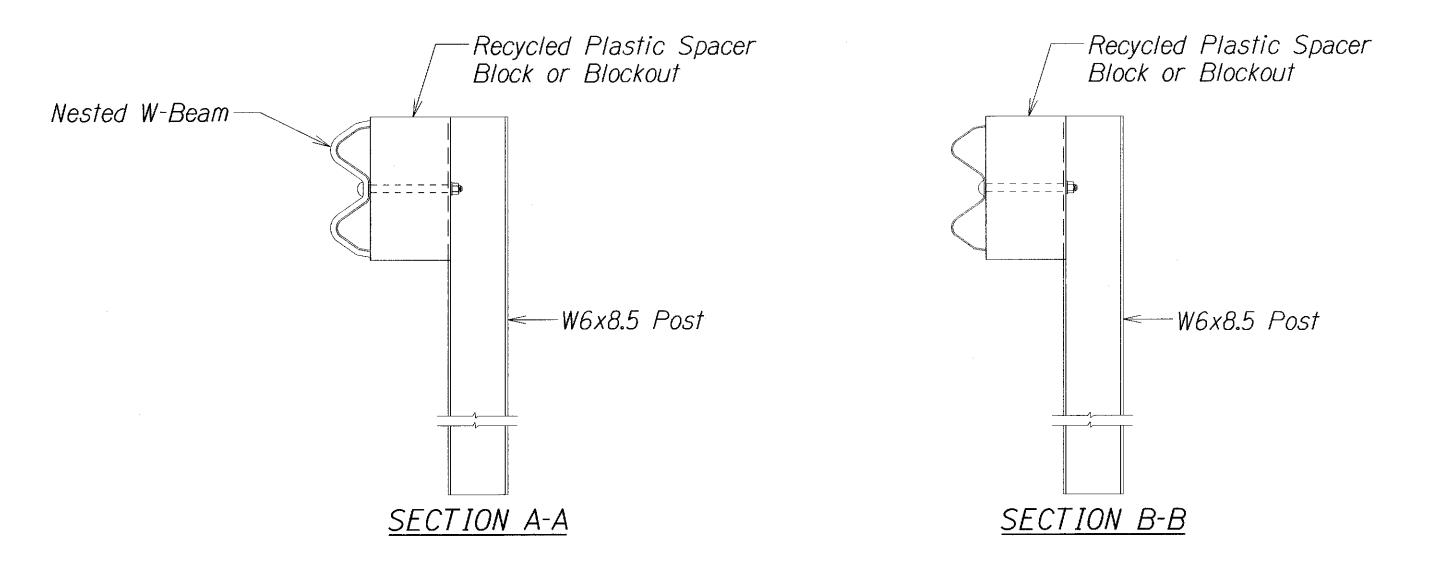
## LONG SPAN 12'-6" OVER CRM WALL



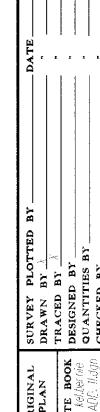
(SPLICE IN CENTER OF 12'-6" SPACING)

NESTED LONG SPAN STRONG POST
W-BEAM GUARDRAIL OVER CRM WALL
(MAXIMUM DYNAMIC DEFLECTION OF 3.1 FT.)

\*Note: All nested W-Beam splices points shall be staggered.



NOTE: All Rail Elements Sections are 12'-6" and All Posts are 8' Long



DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NESTED LONG SPAN STRONG POST

W-BEAM GUARDRAIL

GUARDRAIL AND SHOULDER IMPROVEMENTS

AT VARIOUS LOCATIONS

Kuhio Highway Route 56 (M.P. 3.70)

Kuhio Highway Route 560 (M.P. 6.25)

Fed-Aid Project No. STP-0700(067)

Scale: Not to scale Date: August 2

SHEET No. 5 OF 7 SHEETS

