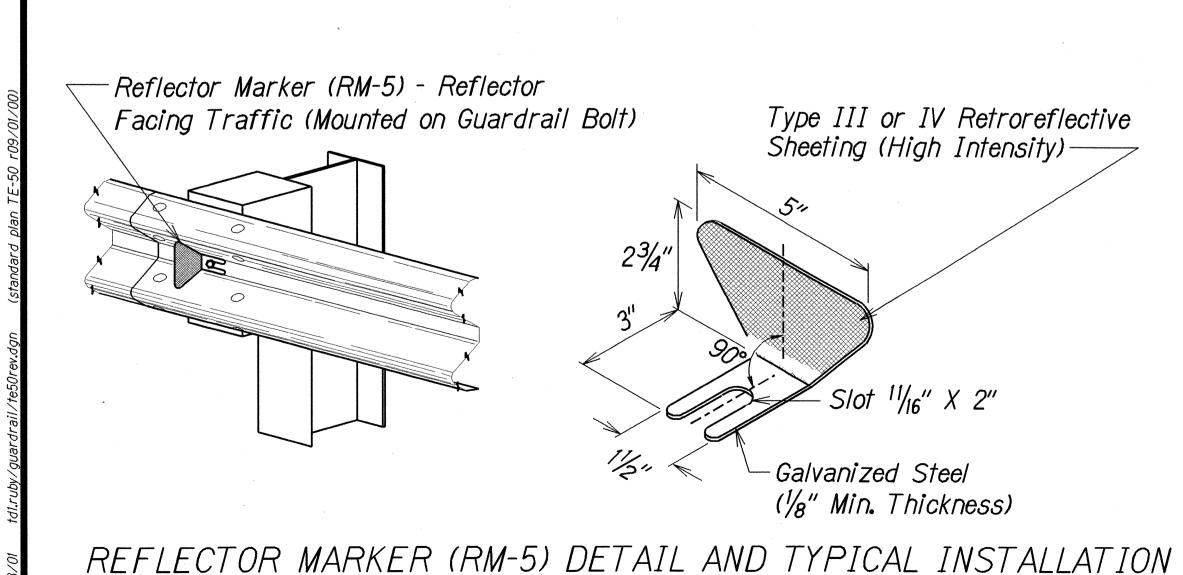
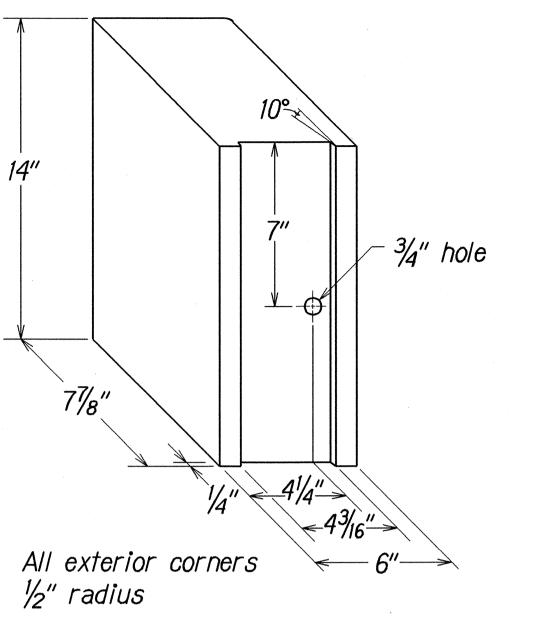


Exploded View (Rail and washer not shown)

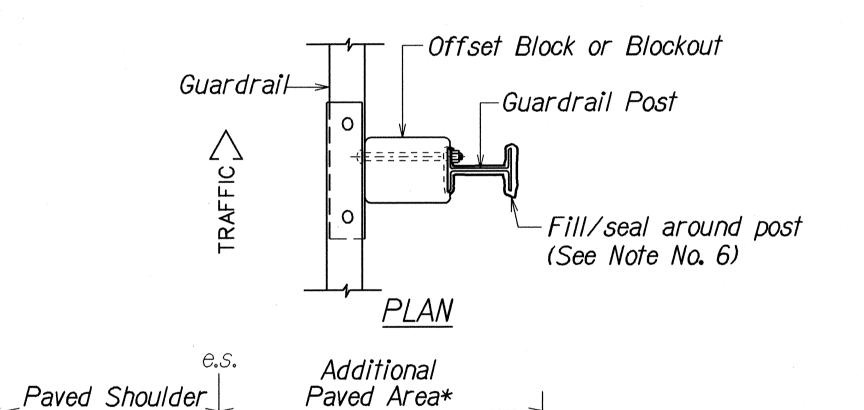
STEEL POST AND BLOCK DETAIL

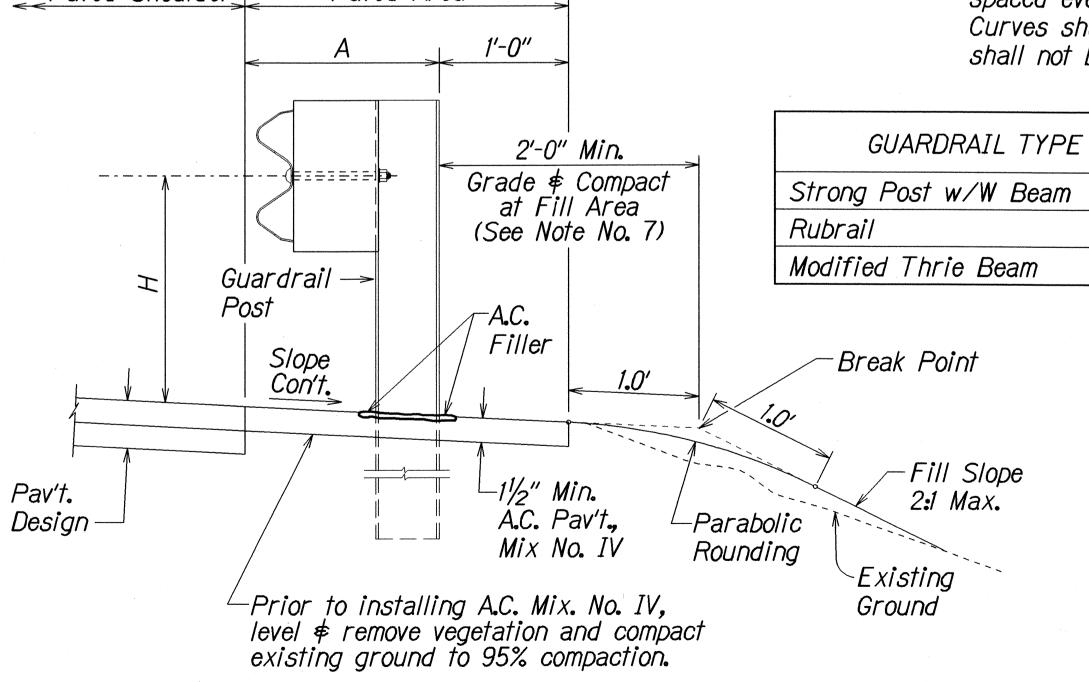


SURVEY PLOT
DRAWN BY A
TRACED BY
DESIGNED BY
QUANTITIES I
CHECKED BY



RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)





ELEVATION

TYPICAL GUARDRAIL INSTALLATION

GENERAL NOTES

1. All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.

FED. ROAD DIST. NO.

FED. AID PROJ. NO.

HAW. NH-019-1(31)

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- 2. Where conditions require, special post lengths in increments of 6 inches may be specified.
- 3. All fasteners, posts, and rail elements (i.e. FBB03, PWE01, RWM02b, etc.) shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware", a report prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Subcommittee On New Highway Materials, Task Force 13 Report. Dimensions of fastners, posts and rail elements have been converted from metric units into their present form.
- 4. The Recycled Plastic Block or Offset Block shall be approved by the State.
- 5. All new guardrail systems (system consists of total length of guardrail including both end treatments) shall include the Additional Paved Area.
- 6. After the guardrail posts are installed in the paved area, the Contractor shall fill/seal around each guardrail post and all cracks in the paved area caused during the guardrail post installation. If required by the inspector/engineer, the Contractor shall tamper the paved area around the guardrail post prior to filling/sealing. All costs associated with this work shall not be paid for separately, but shall be considered incidental to the various guardrail items.
- 7. When standards for the fill slope area cannot be met, a site specific, engineer approved design may be used.
- 8. New A.C. pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends.
- 9. Reflector Markers (RM-5) mounted on guardrails shall be spaced every 200 feet. Spacing of RM-5's on Horizontal Curves shall comply with Table III-1 of the MUTCD. RM-5's shall not be installed on Terminal Sections.

DIMENSION Α 1'-95/8" 1'-6" Strong Post w/W Beam 1'-6" 2'-0" 2'-0" Modified Thrie Beam 2'-0"

> STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION**

GUARDRAIL DETAILS \$ NOTES

QUEEN KA'AHUMANU HIGHWAY **GUARDRAIL AND SHOULDER IMPROVEMENTS** HAPUNA TOWARDS KAILUA-KONA F.A. PROJECT NO. NH-019-1(31)

Scale: NTS

Date: July, 2001 SHEET No. 1 OF 1 SHEETS

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