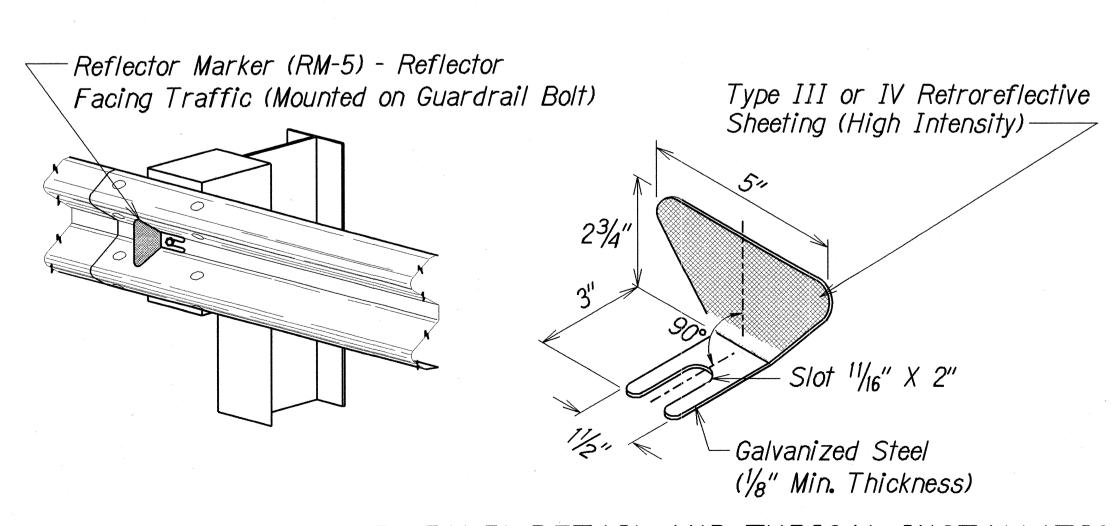
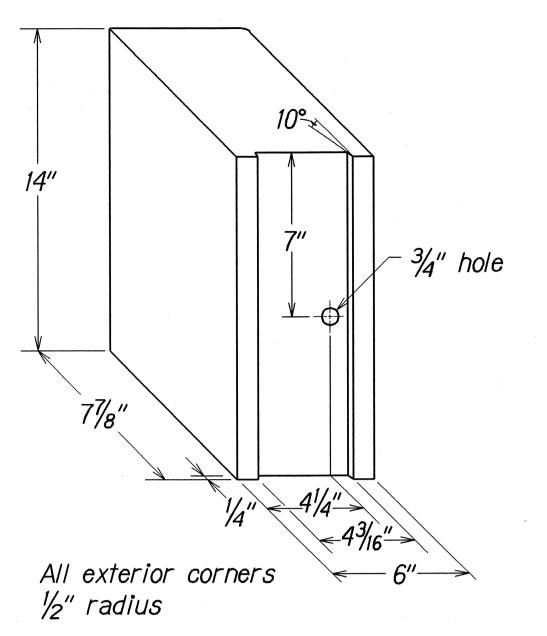


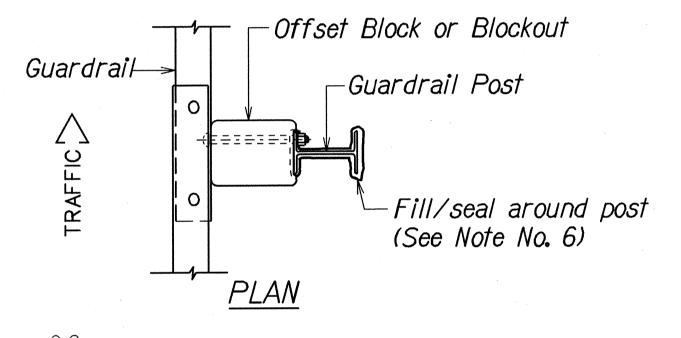
## STEEL POST AND BLOCK DETAIL

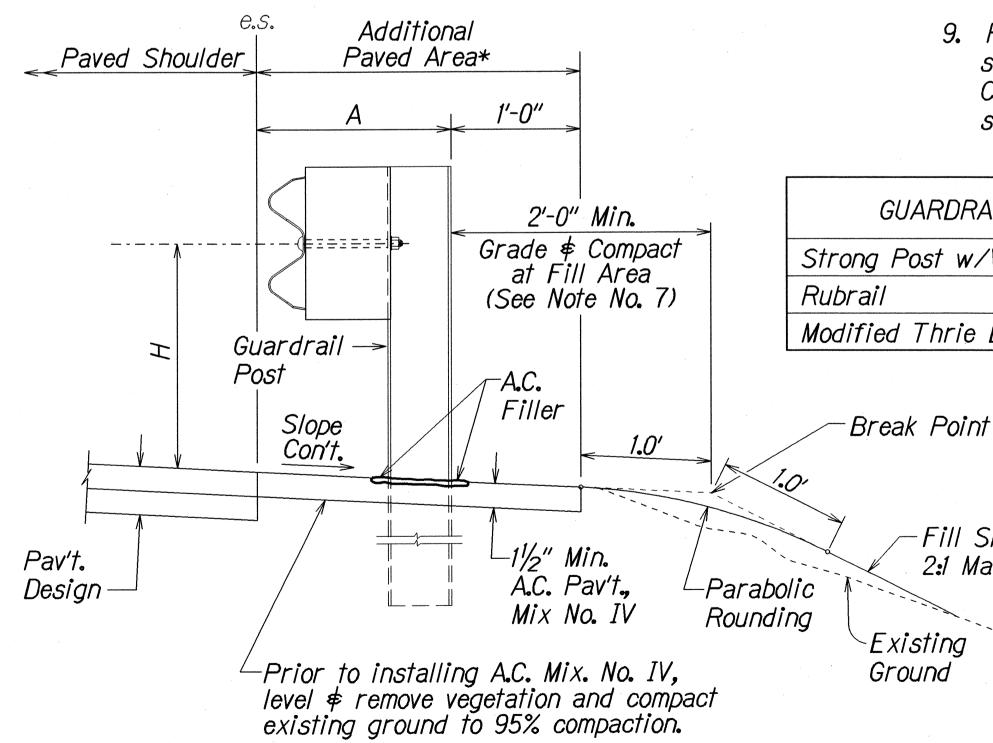
(Rail and washer not shown)





## RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)





TYPICAL GUARDRAIL INSTALLATION

ELEVATION

FED. AID PROJ. NO. FISCAL SHEET YEAR NO. FED. ROAD DIST. NO. 2002 | ADD.30 HAW. NH-019-1(28) HAWAII

## GENERAL NOTES

- All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
- 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 100 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.

GUARDRAIL TYPE	DIMEN	DIMENSION	
	Н	Α	
Strong Post w/W Beam	1'-95/8"	1'-6"	
Rubrail	2'-0"	1'-6"	
Modified Thrie Beam	2'-0"	2'-0"	

-Fill Slope

2:1 Max.

Existing

Ground

12/10/01 Plan Sheet No. ADD.B-1 shall supercede Plan sheet No. B-1 per Addendum No. 1 DATE REVISION

STATE OF HAWAII

GUARDRAIL DETAILS \$ NOTES

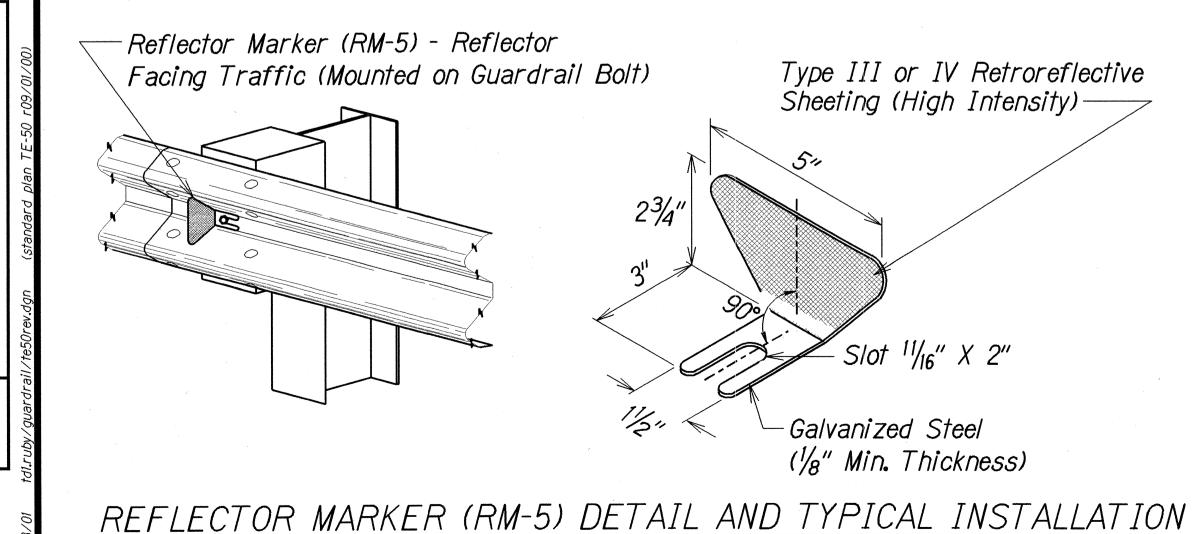
DEPARTMENT OF TRANSPORTATION

QUEEN KA'AHUMANU HIGHWAY GUARDRAIL & SHOULDER IMPROVEMENTS KAWAIHAE TO HAPUNA PROJECT NO. NH-019-1(28)

Scale: NTS

Date: July, 2001

SHEET No. 1 OF 1 SHEETS



ADD.B-1