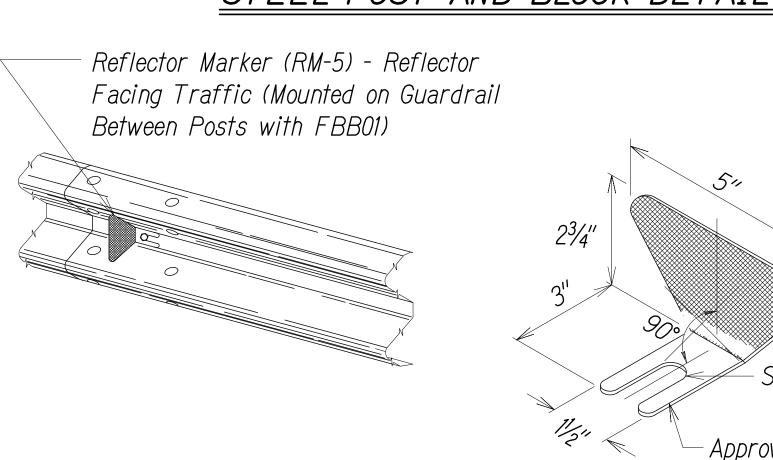


## DIMENSION GUARDRAIL TYPE 2'-1" 1'-6" MGS w/ Standard 8" Offset Block 2'-7/8" MGS w/ No Blockout

## Offset Block or Blockout W-BEAM END SECTION (ROUNDED RWE03a) Guardrail--Guardrail Post TRAFFIC Offset Block or Blockout (See Note No. 4) Strong Post (PWEŎ1) (PWE02) FBB03 guardrail bolt



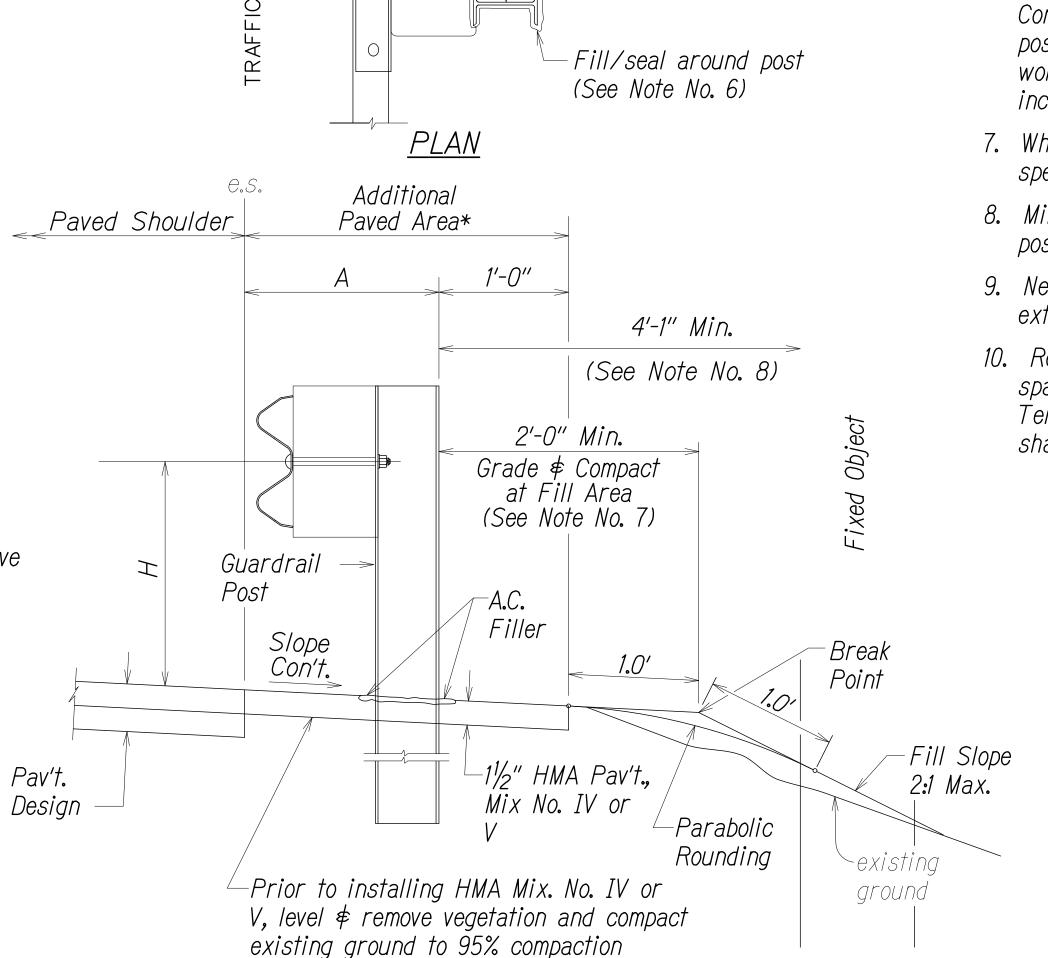
## STEEL POST AND BLOCK DETAIL



Type III or IV Retroreflective Sheeting (High Intensity); Color of Retroreflective Sheeting shall conform to the color of the adjacent edge line Slot 11/16" X 2" Approved Plastic Product

with recessed nut

REFLECTOR MARKER (RM-5) DETAIL AND TYPICAL INSTALLATION



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.

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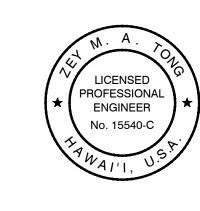
FISCAL YEAR

2018

SHEET NO.

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- 2. Where conditions require, special post lengths in increments of 6 inches may be specified by the Engineer.
- 3. All fasteners, posts, and rail elements (i.e. FBB03, PWE01, RWM04b, 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 Blockout or Offset Block shall be approved by the
- 5. All new guardrail systems (system consists of total length of quardrail 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. Minimum working width (clear distance) between back of MGS post to any fixed object is 4'-1" (49").
- 9. New Hot Mix Asphalt (HMA) pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends.
- 10. Reflector Markers (RM-5) mounted on guardrails shall be spaced every 25 feet. RM-5's shall not be installed on Terminal Sections. Furnishing and installing of each RM-5 shall be considered incidental to the guardrail system.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

**DEPARTMENT OF TRANSPORTATION** 

## GUARDRAIL DETAILS 1

STATE OF HAWAI'I

Piilani Highway Improvements Vicinity of Kulanihakoi Street Project No. 31A-02-17

Scale: As Shown

Date: Mar 2018

SHEET No. C-17 OF 24 SHEETS

