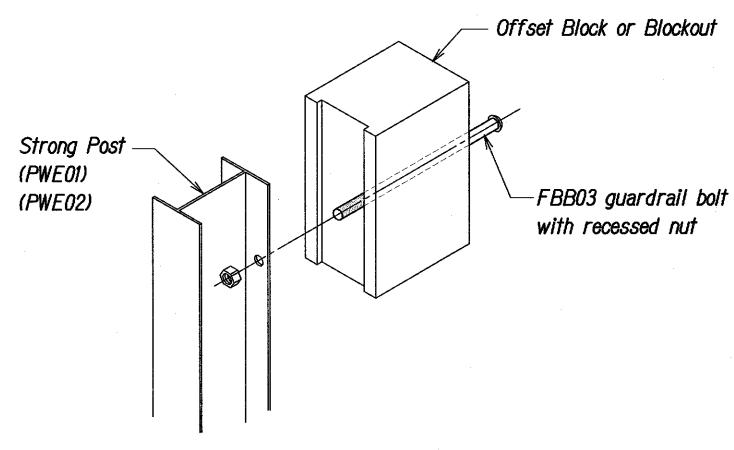
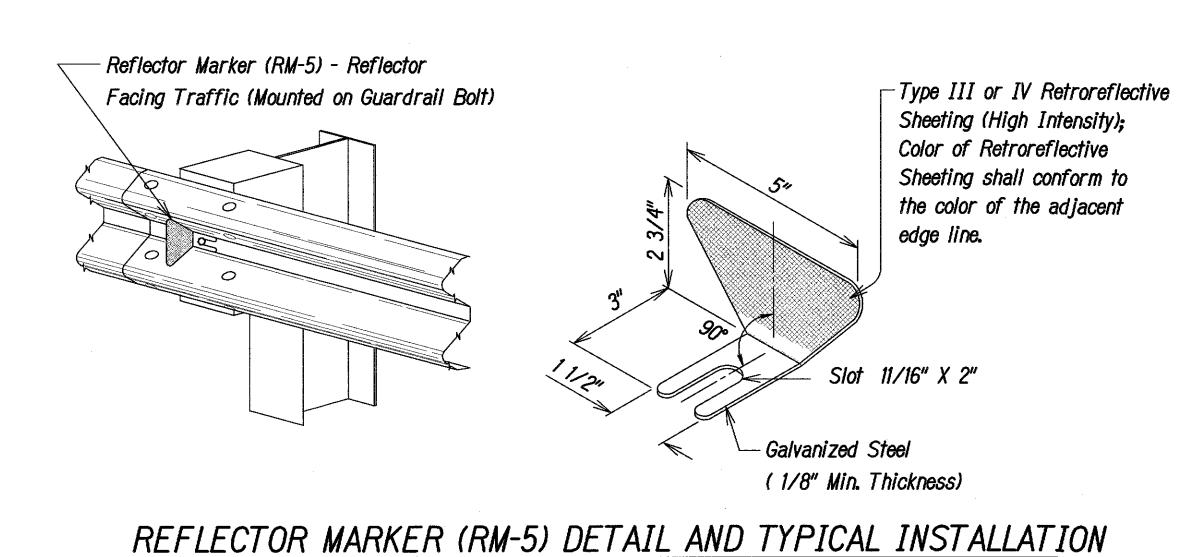


# RECYCLED PLASTIC BLOCKOUT (TYPE I) Not to Scale



Exploded View
(Rail and washer not shown)

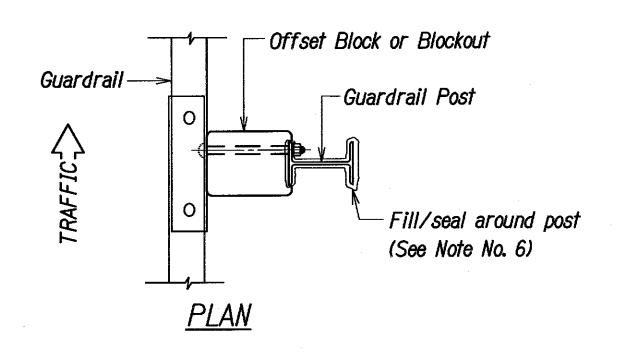
### STEEL POST AND BLOCK DETAIL

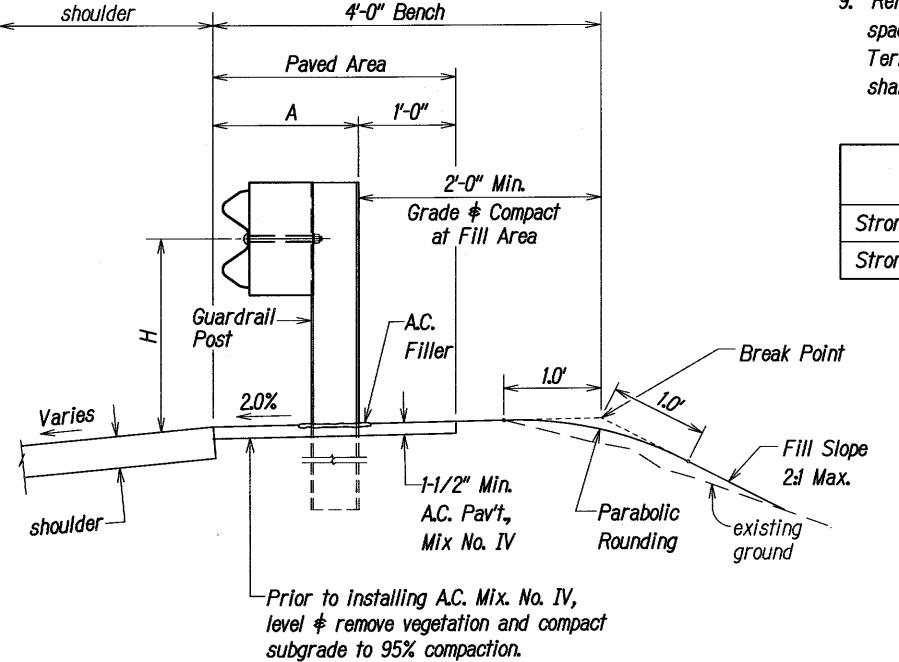


Not to Scale

All exterior corners
1/2" radius

# RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II) Not to Scale





#### **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.

HAWAII

FISCAL YEAR

2014

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377A-01-11

SHEET NO.

23

SHEETS

- 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 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 adjacent guardrail system.

| GUARDRAIL TYPE               | DIMENSION |       |
|------------------------------|-----------|-------|
|                              | Н         | A     |
| Strong Post W-Beam           | 1'-9 5/8" | 1'-6" |
| Strong Post Rubrail (W-Beam) | 2'-0"     | 1'-6" |



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

ParEn, Inc.
dba PARK ENGINEERING

STATE OF HAWAI'I

DEPARTMENT OF TRANSPORTATION

Runeya, anyano

## GUARDRAIL DETAILS AND NOTES

HIGHWAYS DIVISION

KEKAULIKE AVENUE

Drainage Improvements

Mile Post 7.6 to Mile Post 7.9

PROJECT NO. 377A-01-11

SHEET No. GR3 OF GR4 SHEETS

TYPICAL GUARDRAIL INSTALLATION

Not to Scale

**ELEVATION** 

Scale: As Shown Date: September 2013

