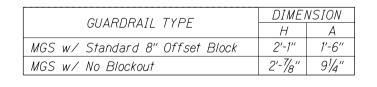
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0340(005)	2020	10	44

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.
- 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 State.
- 5. All new quardrail systems (system consists of total length of quardrail including both end treatments) shall include the Additional Paved Area.
- 6. After the quardrail 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 quardrail 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 quardrail 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 quardrails 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.



PLAN

Additional

Paved Area*

Guardrai⊢

raffic 📏

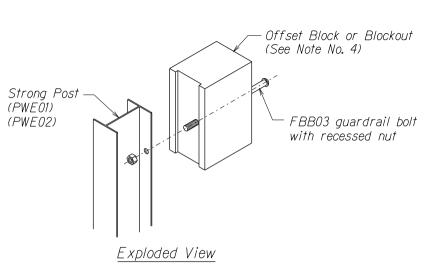
Paved Shoulder

Offset Block or Blockout

-Guardrail Post

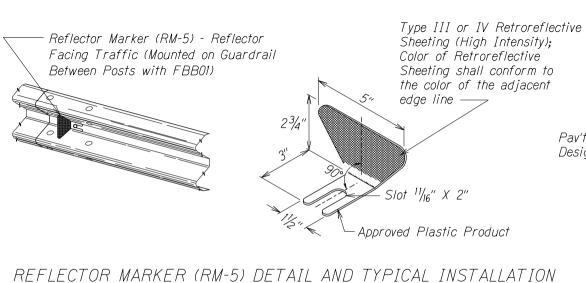
Fill/seal around post

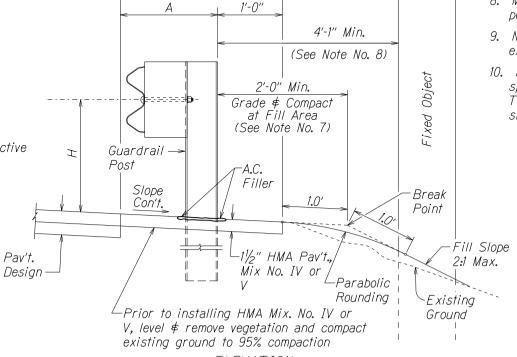
(See Note No. 6)



(Rail and washer not shown)

STEEL POST AND BLOCK DETAIL





ELEVATION

TYPICAL GUARDRAIL INSTALLATION



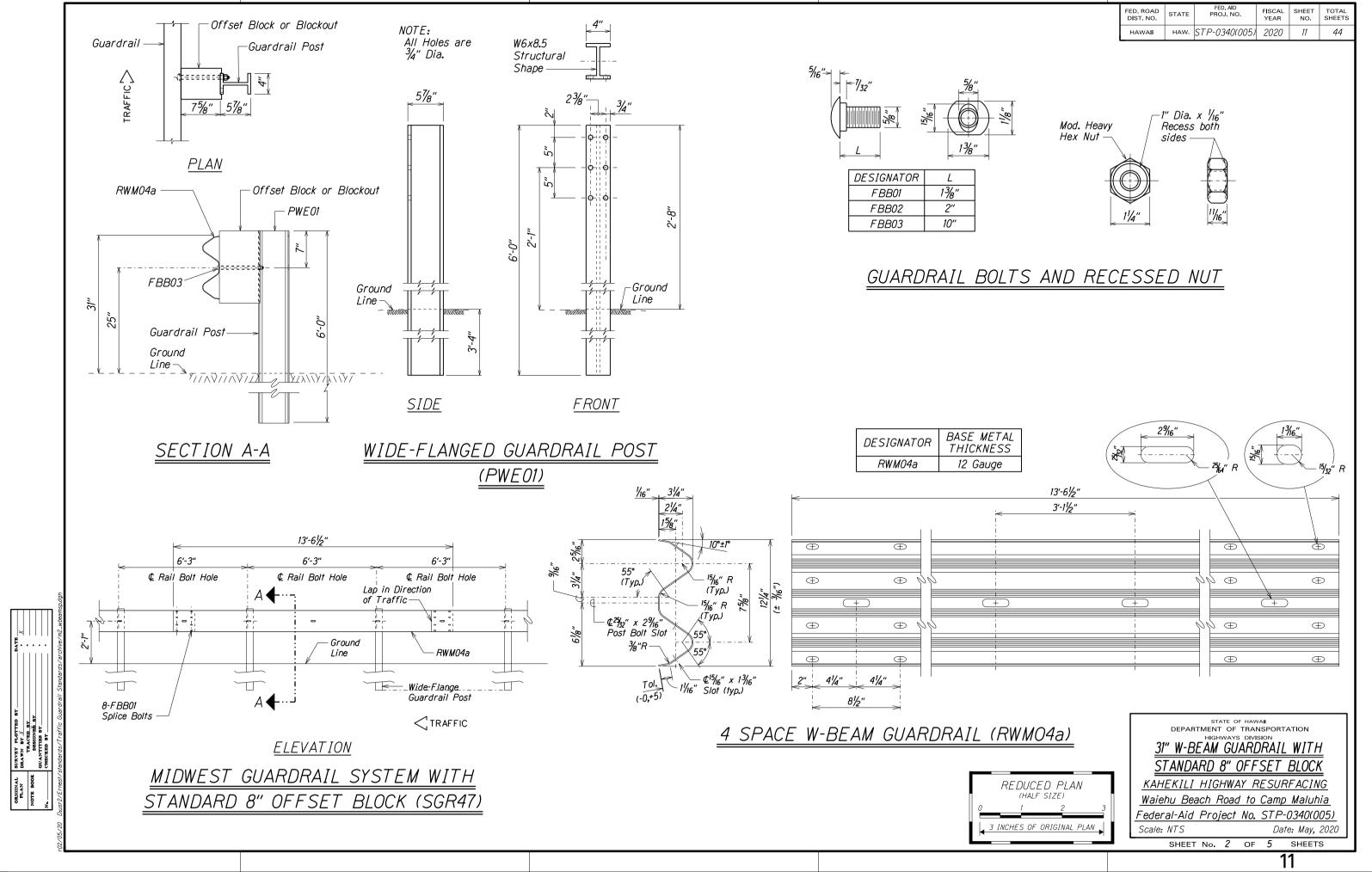
DEPARTMENT OF TRANSPORTATION

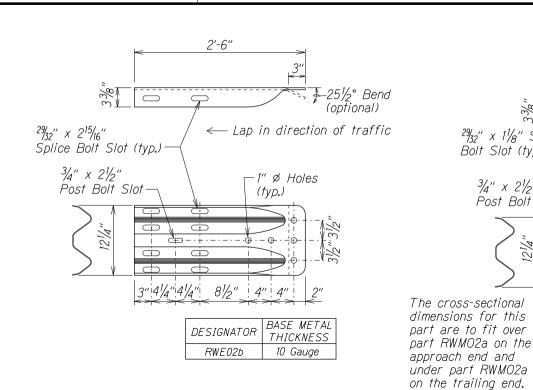
GUARDRAIL DETAILS \$ NOTES

KAHEKILI HIGHWAY RESURFACING Waiehu Beach Road to Camp Maluhia Federal-Aid Project No. STP-0340(005)

Date: May, 2020 SHEETS

SHEET No. 1 OF 5





W-BEAM TERMINAL CONNECTOR (RWE02b)

⊕

of traffic

Lap in direction

81/2" | 71/2"

W-BEAM END SECTION (BUFFER RWE06a)

DESIGNATOR

RWE06a

^{. 29}/₃₂" x 1¹/₈" Splice Bolt Slot (typ.)

16,

BASE METAL

THICKNESS

12 Gauge

Contour to fit over rail element

Shape to fit rail element

W-BEAM END SECTION (FLARED RWE01a)

DESIGNATOR

RWE01a

2'-31/2"

← Lap in direction

BASE METAL THICKNESS

12 Gauge

of traffic

Lap

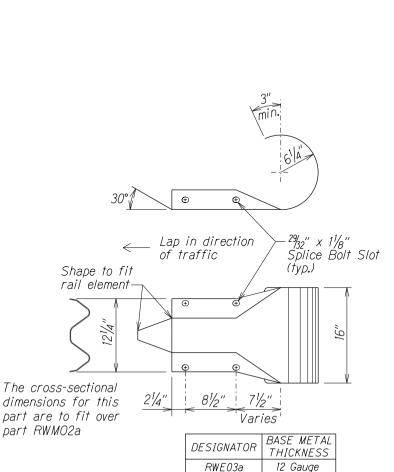
 $\frac{29}{32}$ " x $\frac{1}{8}$ " Splice

Bolt Slot (typ.) -

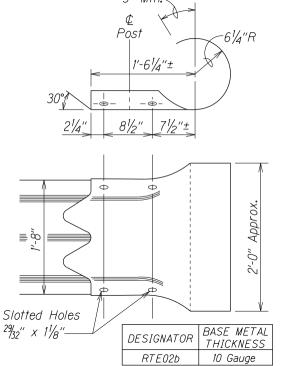
3/4" x 21/2"

Post Bolt Slot-

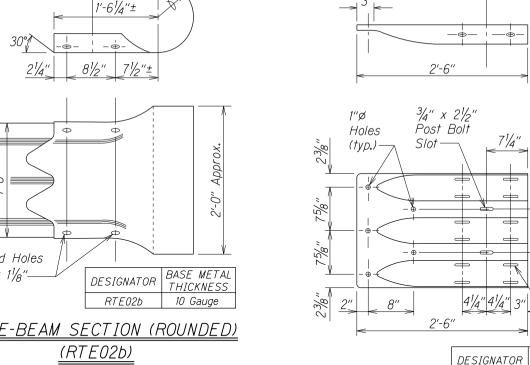
121/4"



W-BEAM END SECTION (ROUNDED RWE03a)



THRIE-BEAM SECTION (ROUNDED) (RTE02b)



THRIE-BEAM TERMINAL CONNECTOR (RTE01b)

RTE01b

FED. AID PROJ. NO.

HAW. STP-0340(005)

FISCAL YEAR

2020

SHEET NO.

12

-²⁹/₃₂" x 1¹/₈"

Slots

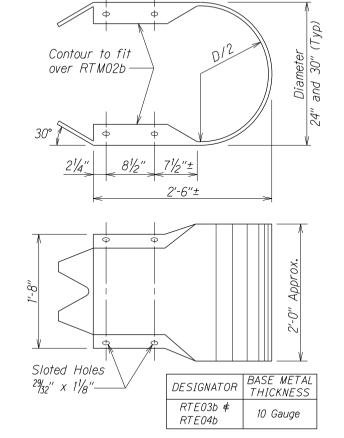
BASE METAL

THICKNESS

10 Gauge

FED. ROAD DIST. NO.

STATE



THRIE-BEAM END SECTION (BUFFER RTE03b or RTE04b)



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

GUARDRAIL TERMINAL CONNECTORS AND END SECTIONS

KAHEKILI HIGHWAY RESURFACING Waiehu Beach Road to Camp Maluhia Federal-Aid Project No. STP-0340(005)

SHEET No. 3 OF 5

The cross-sectional

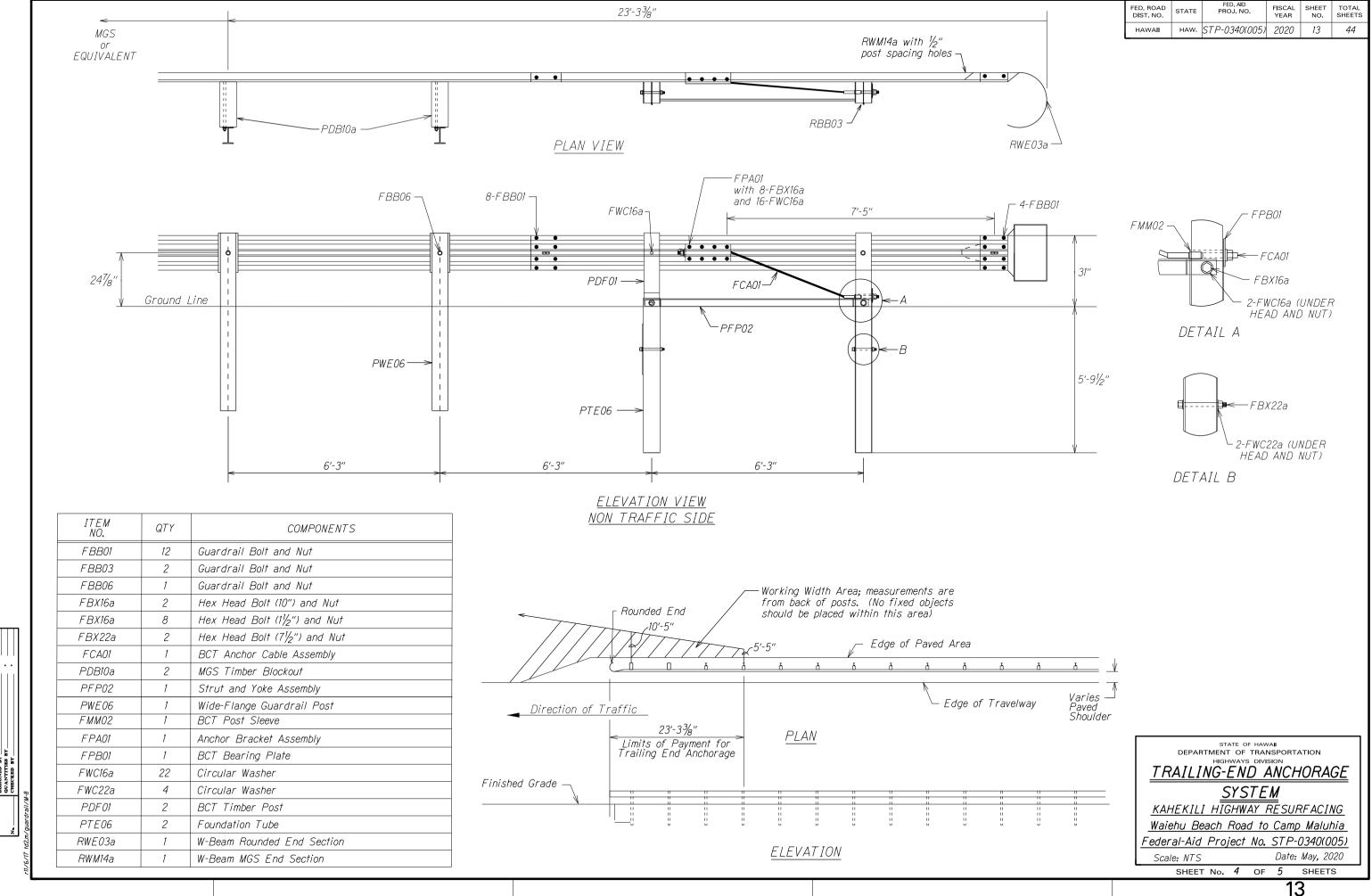
dimensions for this

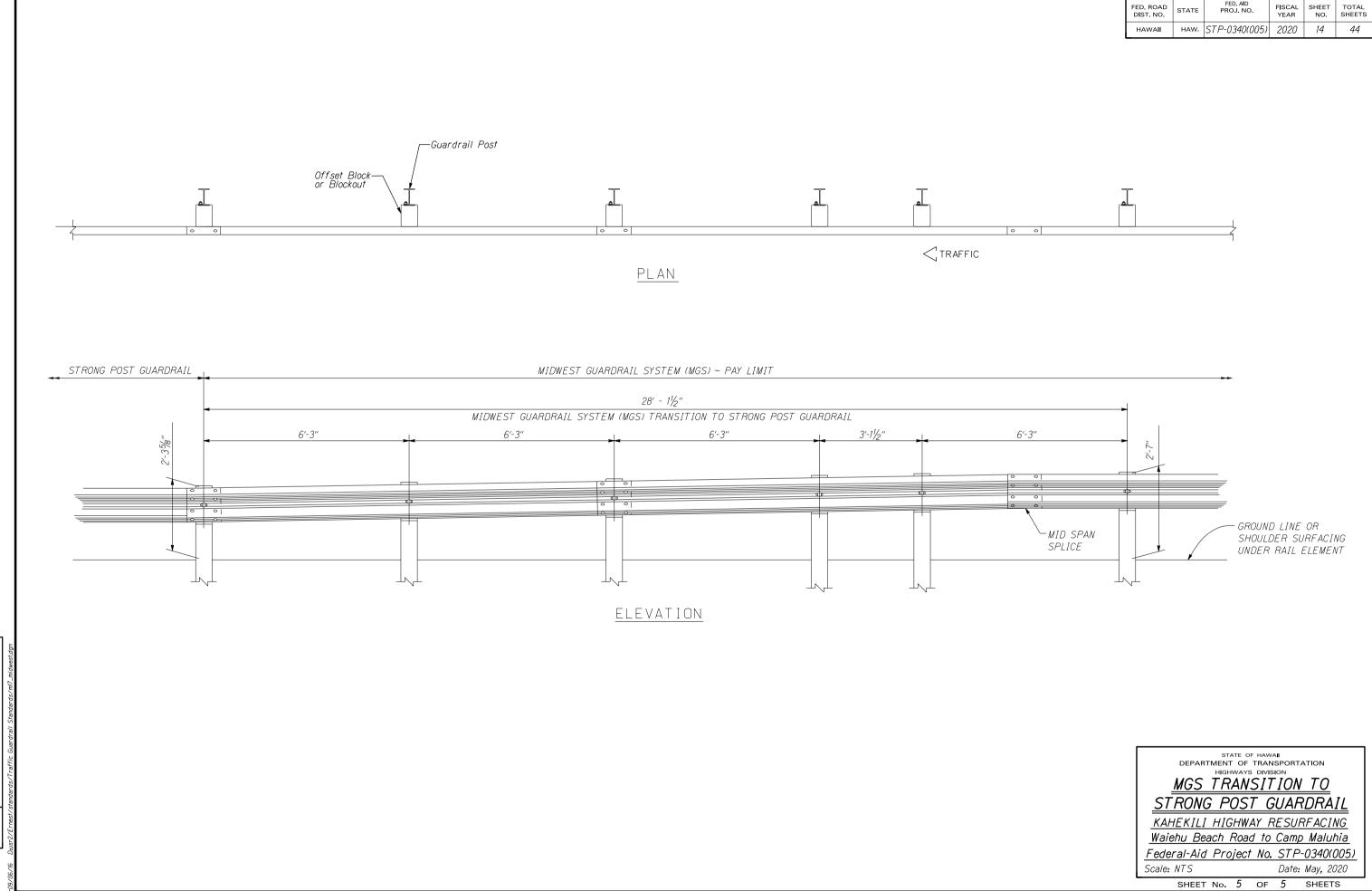
part are to fit over

part RWMO2a

SHEETS







14

FED. AID PROJ. NO.

STATE