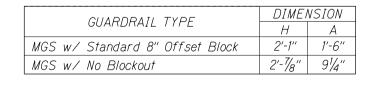
	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	STP-030-1(058)	2022	8	38

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 📏

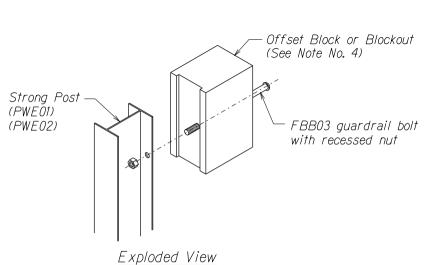
Paved Shoulder

-Offset Block or Blockout

-Guardrail Post

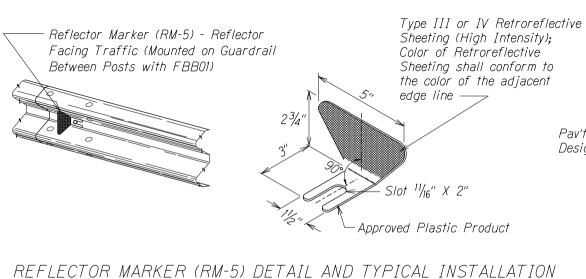
Fill/seal around post

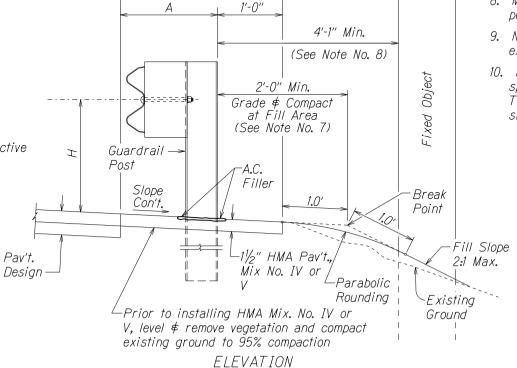
(See Note No. 6)



(Rail and washer not shown)

STEEL POST AND BLOCK DETAIL





TYPICAL GUARDRAIL INSTALLATION

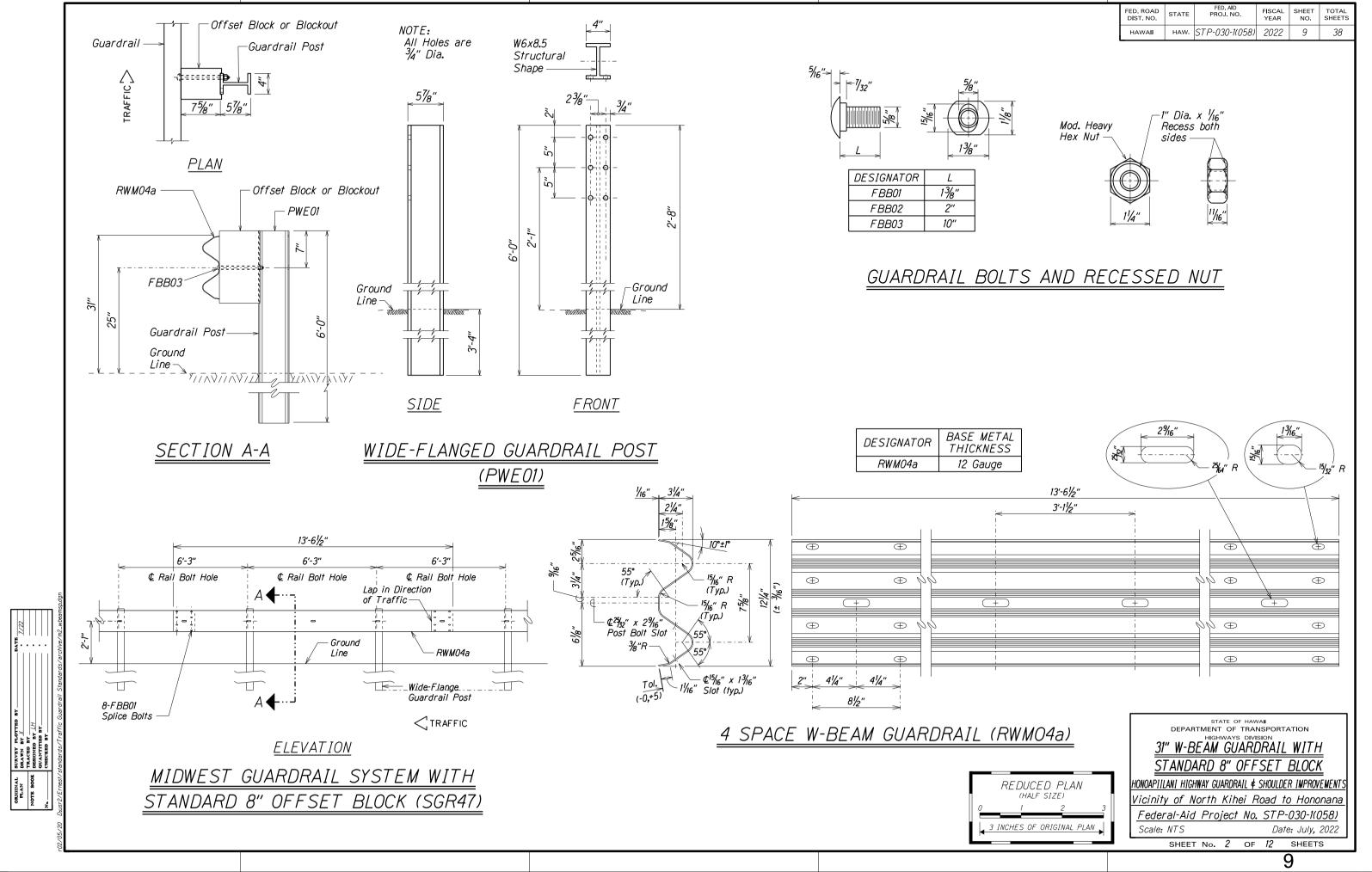
REDUCED PLAN (HALF SIZE) 3 INCHES OF ORIGINAL PLAN DEPARTMENT OF TRANSPORTATION

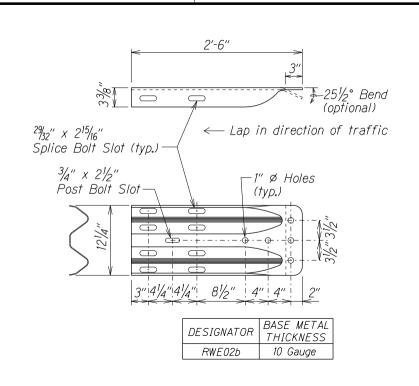
GUARDRAIL DETAILS \$ NOTES

HONOAPIILANI HIGHWAY GUARDRAIL & SHOULDER IMPROVEMENTS Vicinity of North Kihei Road to Hononana Federal-Aid Project No. STP-030-1(058)

Date: July, 2022 SHEETS

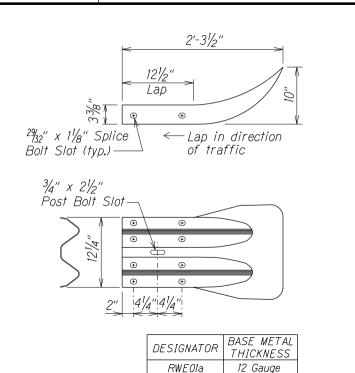
SHEET No. 1 OF 12





W-BEAM TERMINAL CONNECTOR (RWE02b)







Post

81/2"

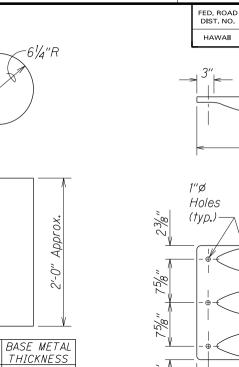
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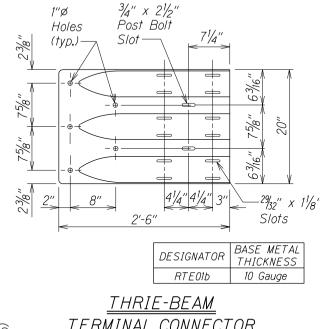
Slotted Holes

²⁹/₃₂" x 1½"-

1′-6¼″±



DESIGNATOR



FED. AID PROJ. NO.

HAW. STP-030-1(058)

2'-6"

STATE

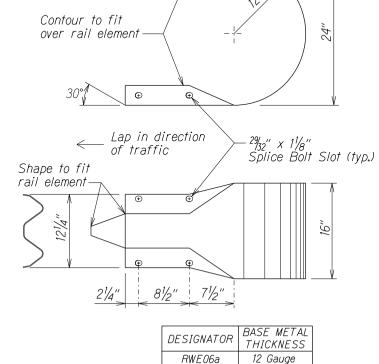
FISCAL YEAR

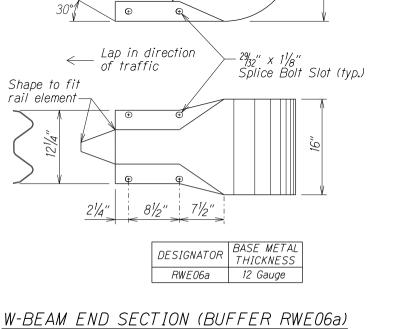
2022

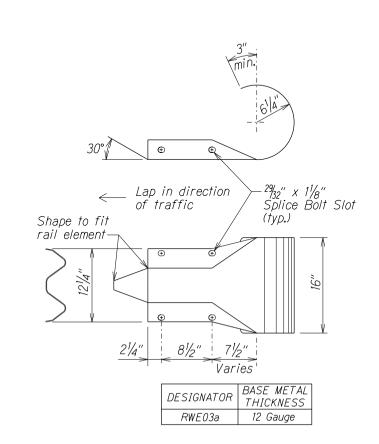
SHEET NO.

10

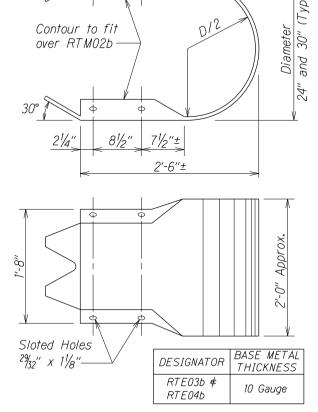
TERMINAL CONNECTOR (RTE01b)



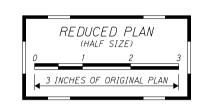




W-BEAM END SECTION (ROUNDED RWE03a)



THRIE-BEAM END SECTION (BUFFER RTE03b or RTE04b)



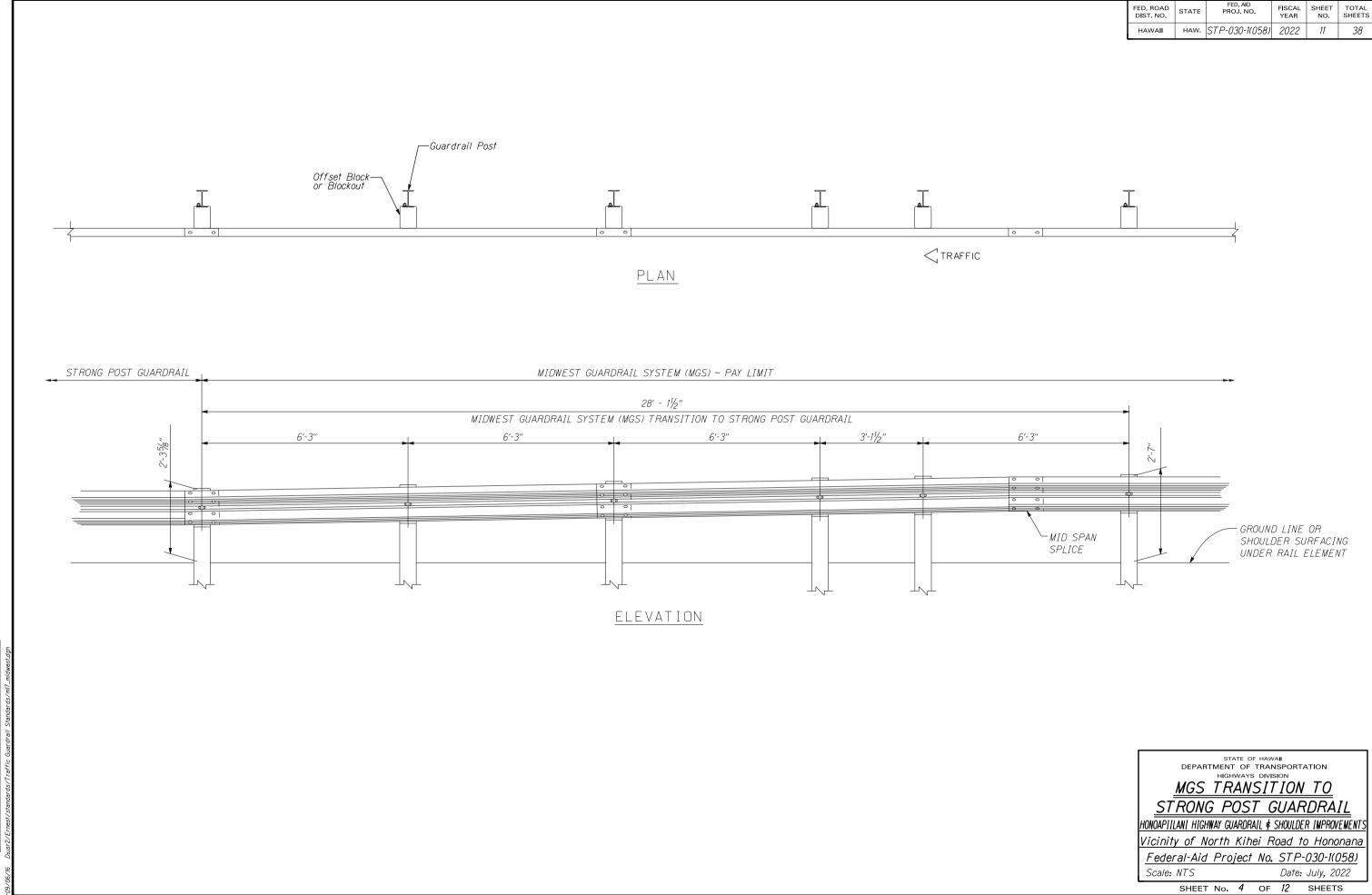
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

GUARDRAIL TERMINAL CONNECTORS AND END SECTIONS

HONOAPIILANI HIGHWAY GUARDRAIL & SHOULDER IMPROVEMENT Vicinity of North Kihei Road to Hononana Federal-Aid Project No. STP-030-1(058)

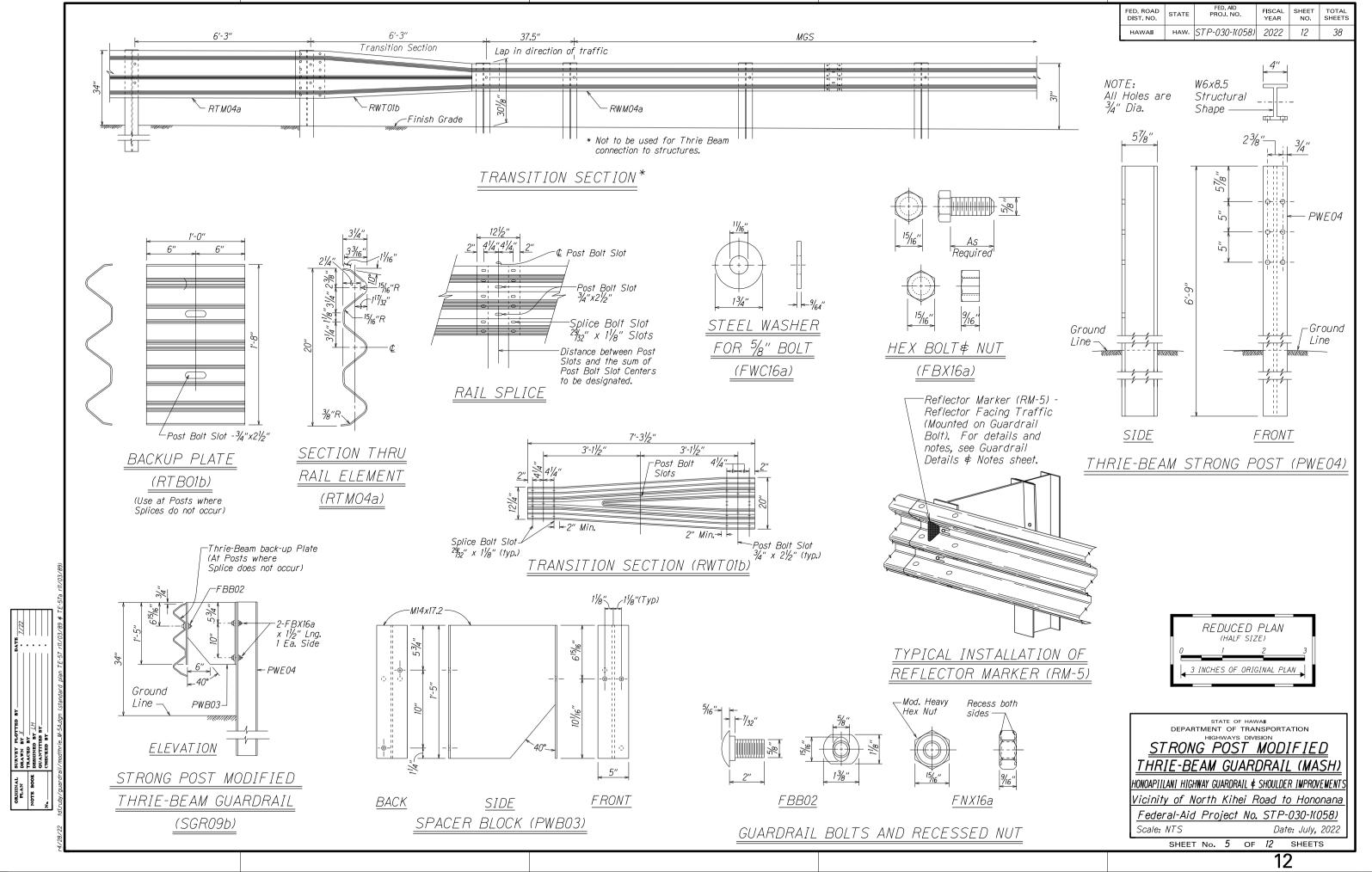
> SHEET No. 3 OF 12 SHEETS

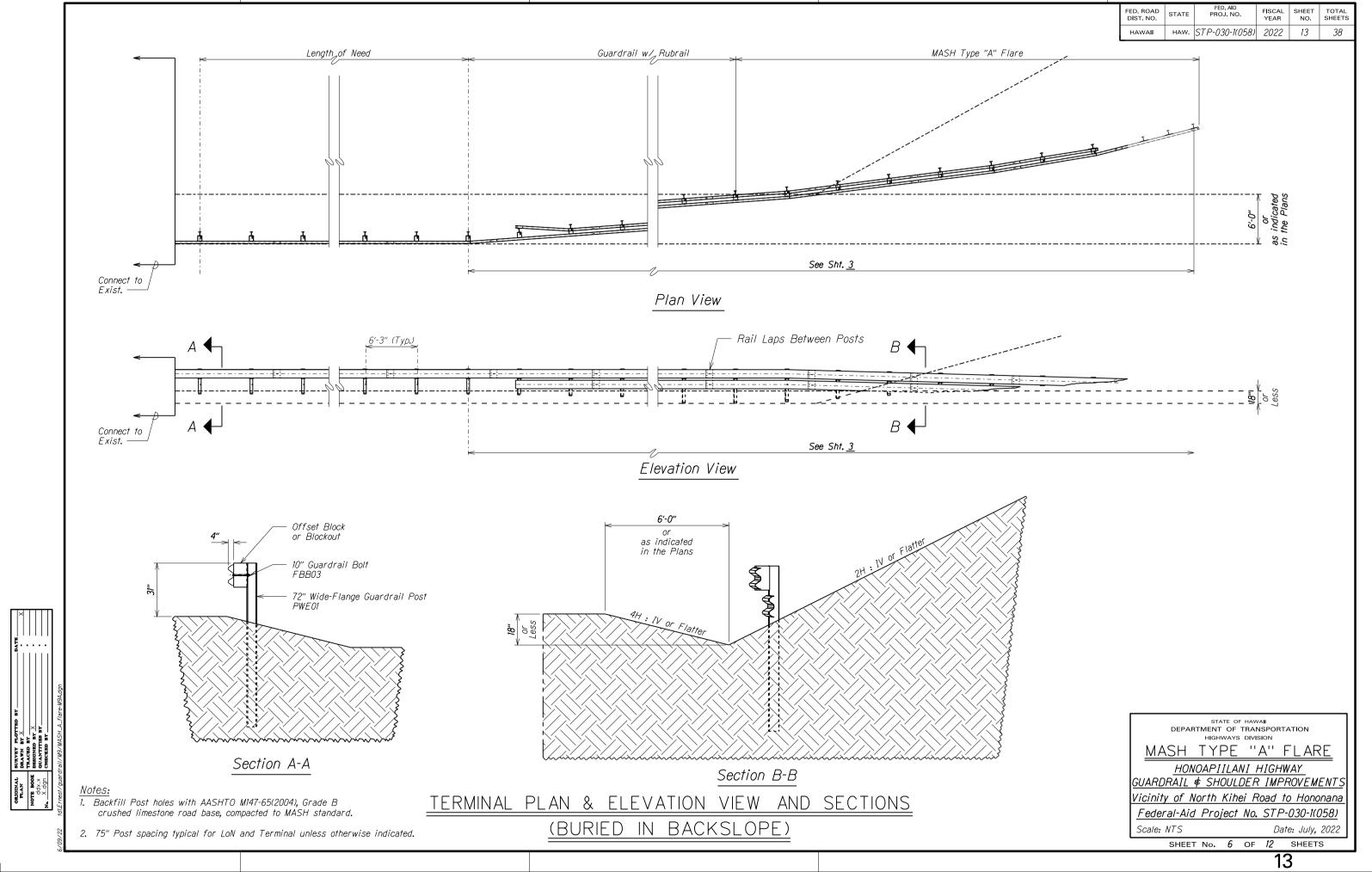
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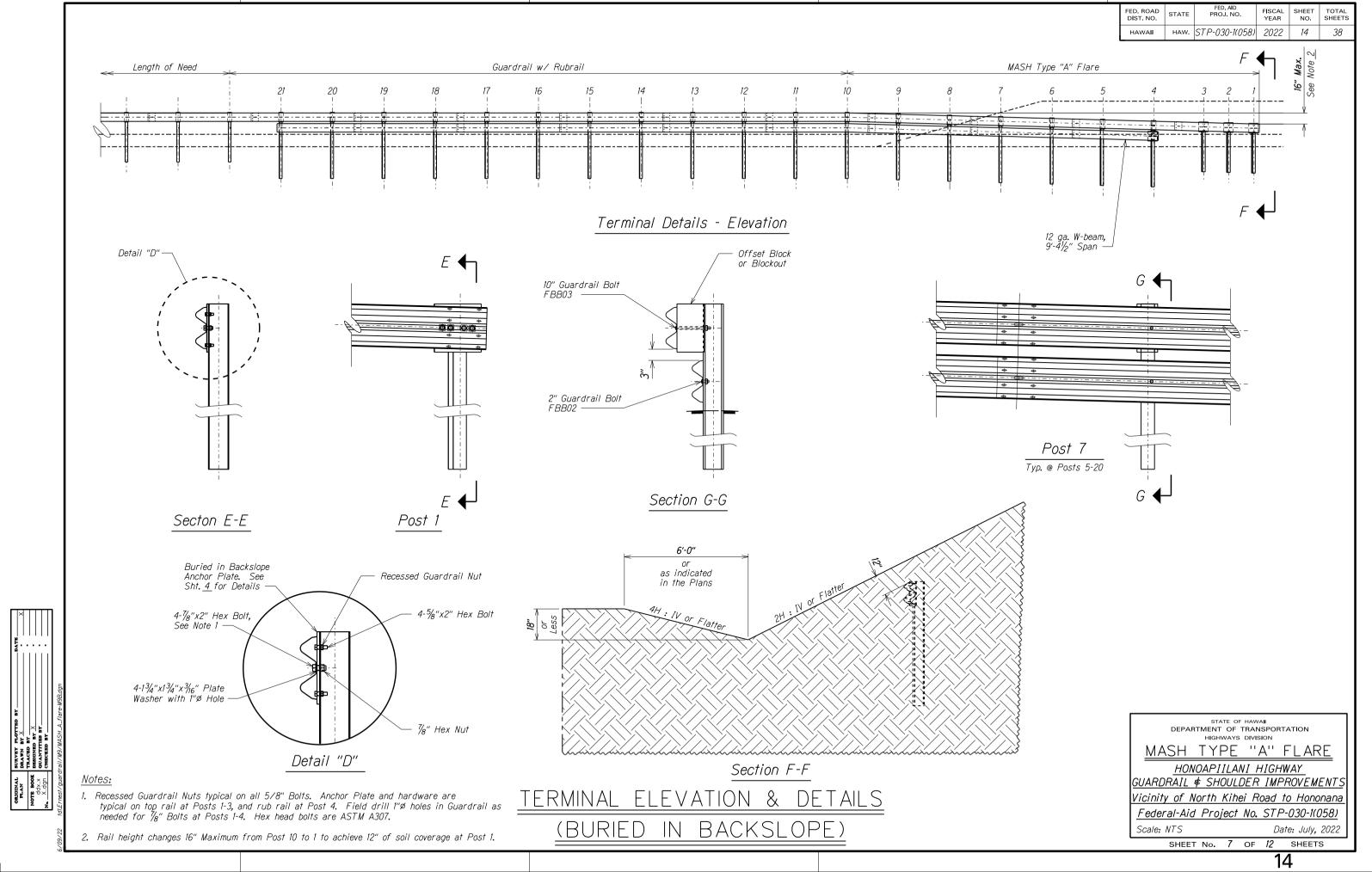


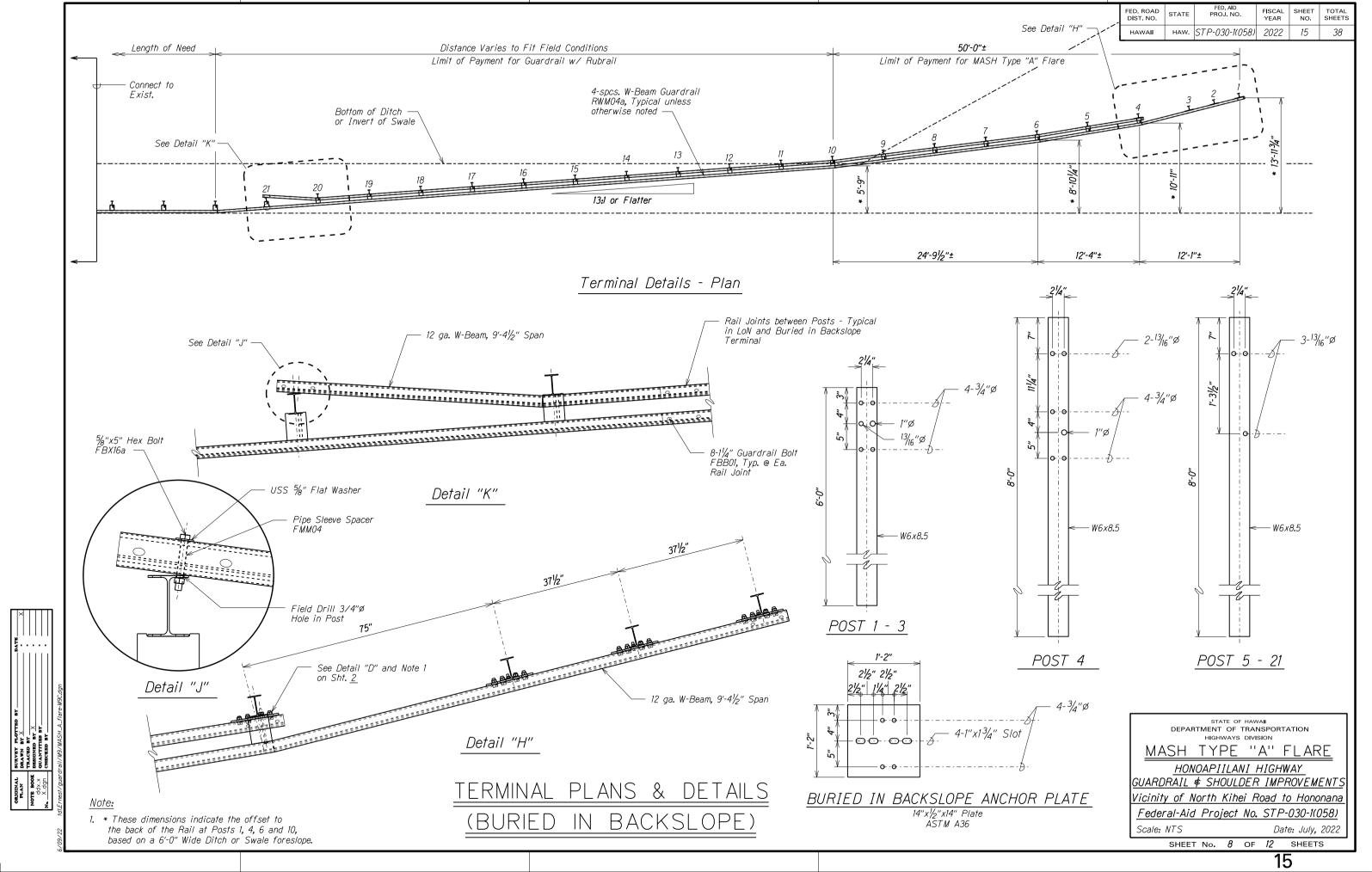
FED. AID PROJ. NO.

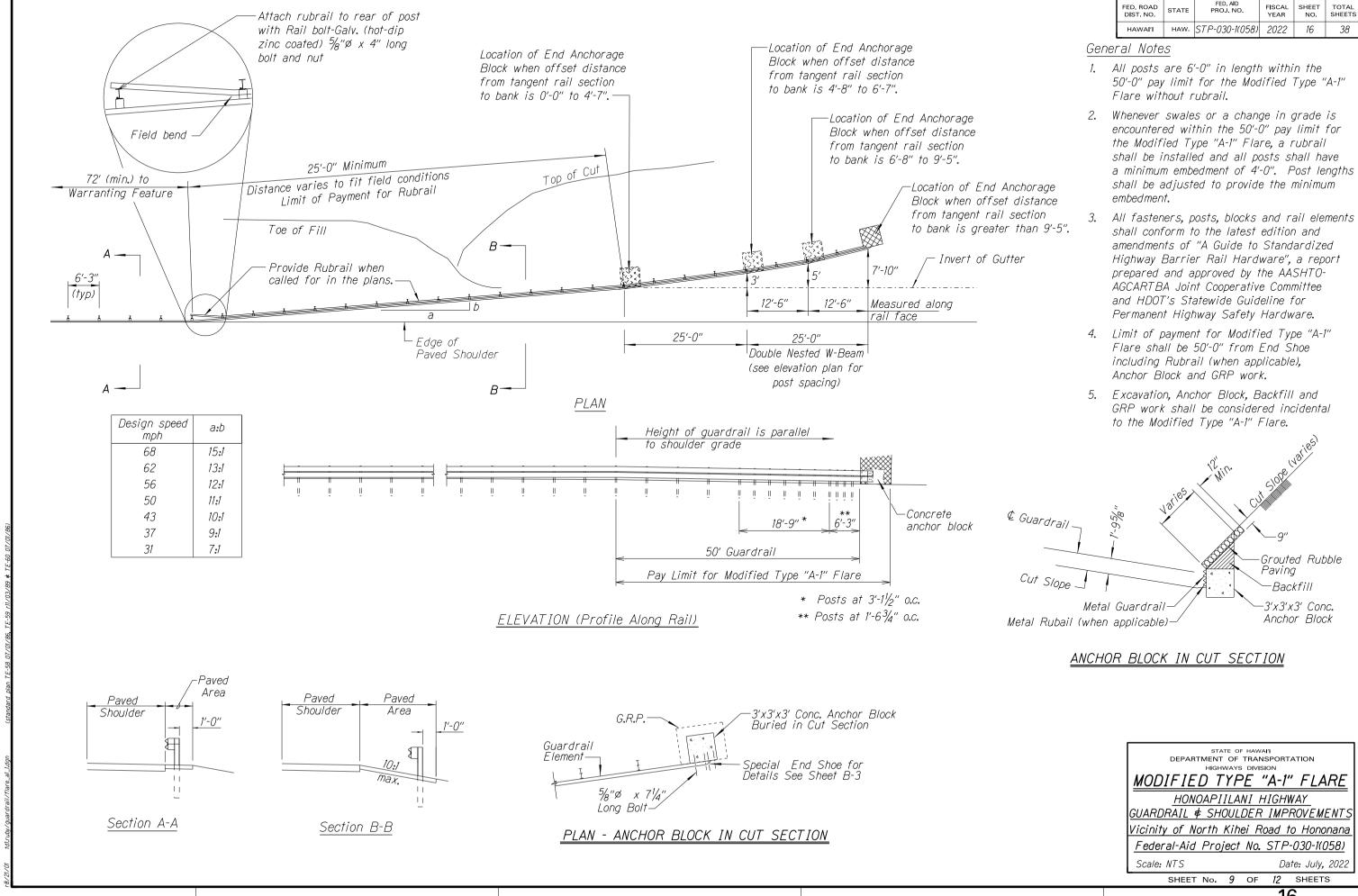
STATE

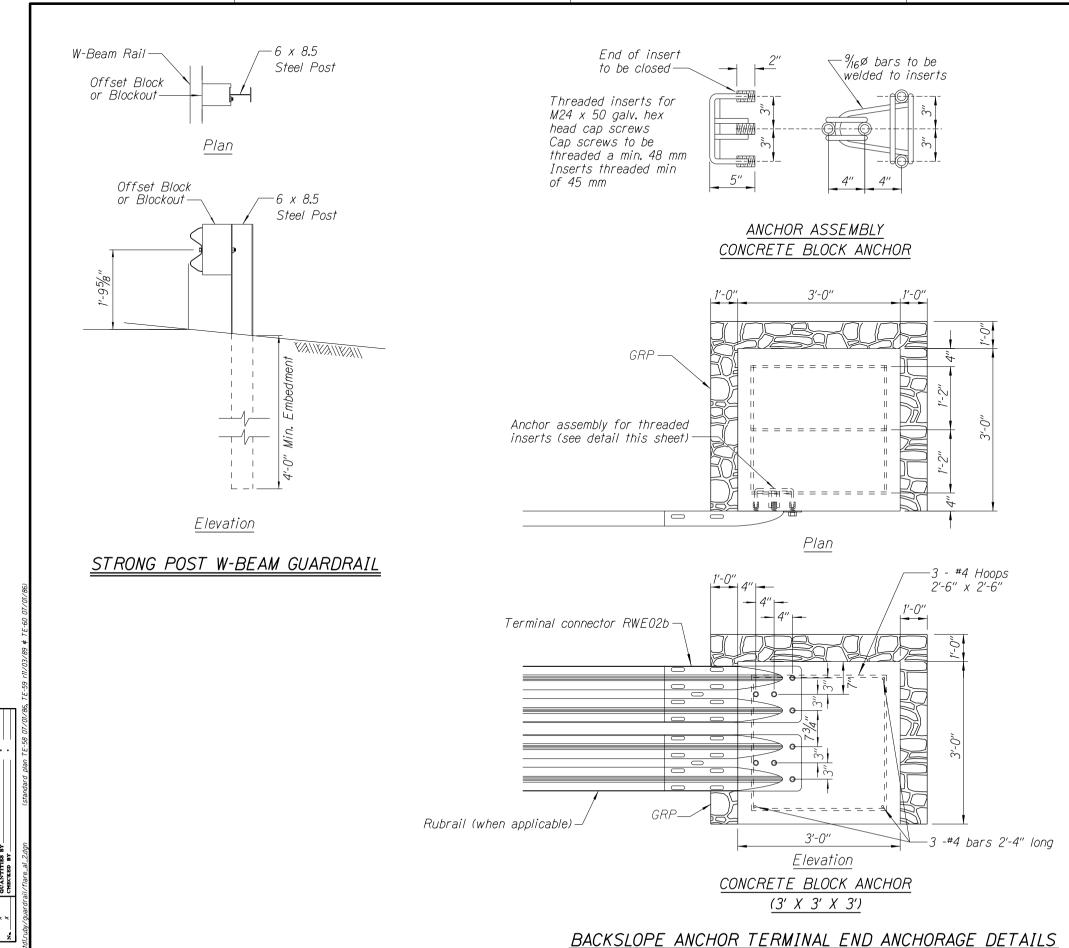












MODIFIED TYPE "A-1" FLARE

FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. STP-030-1(058) 2022 17 38

Note:

All fasteners, posts, blocks and rail elements 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-AGCARTBA Joint Cooperative Committee and HDOT's Statewide Guideline for Permanent Highway Safety Hardware.

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MODIFIED TYPE "A-1" FLARE

HONOAPIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of North Kihei Road to Hononana
Federal-Aid Project No. STP-030-1(058)

Scale: NTS

Date: July, 2022

SHEET No. 10 OF 12 SHEETS

10 -1 12

