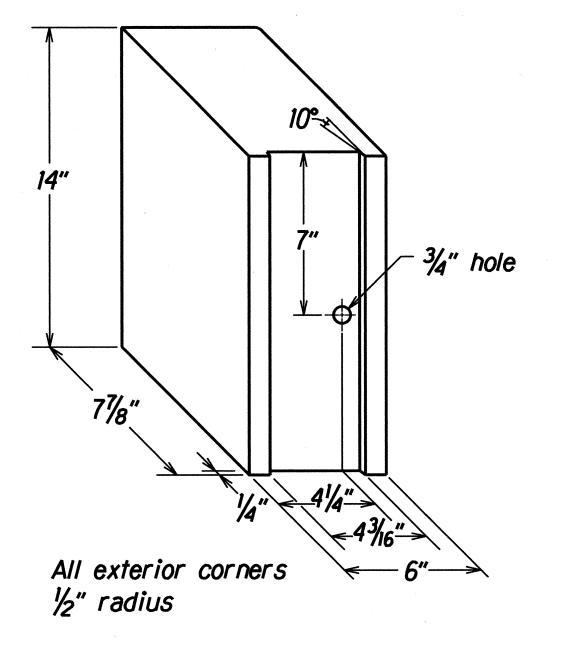
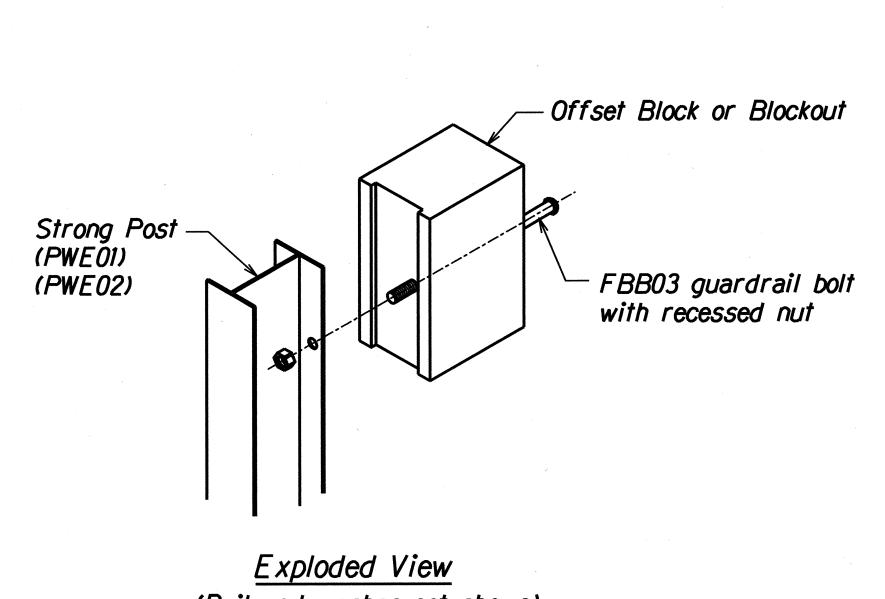


<u>SIDE</u> RECYCLED PLASTIC BLOCKOUT (TYPE I)

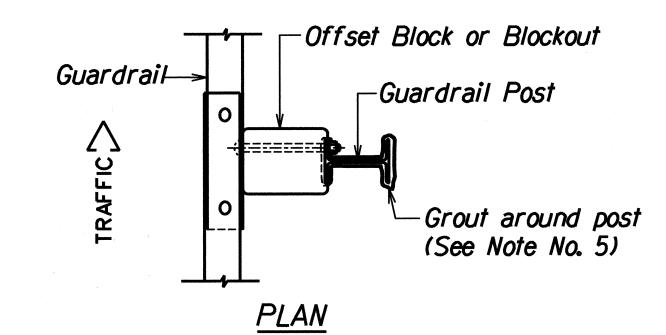


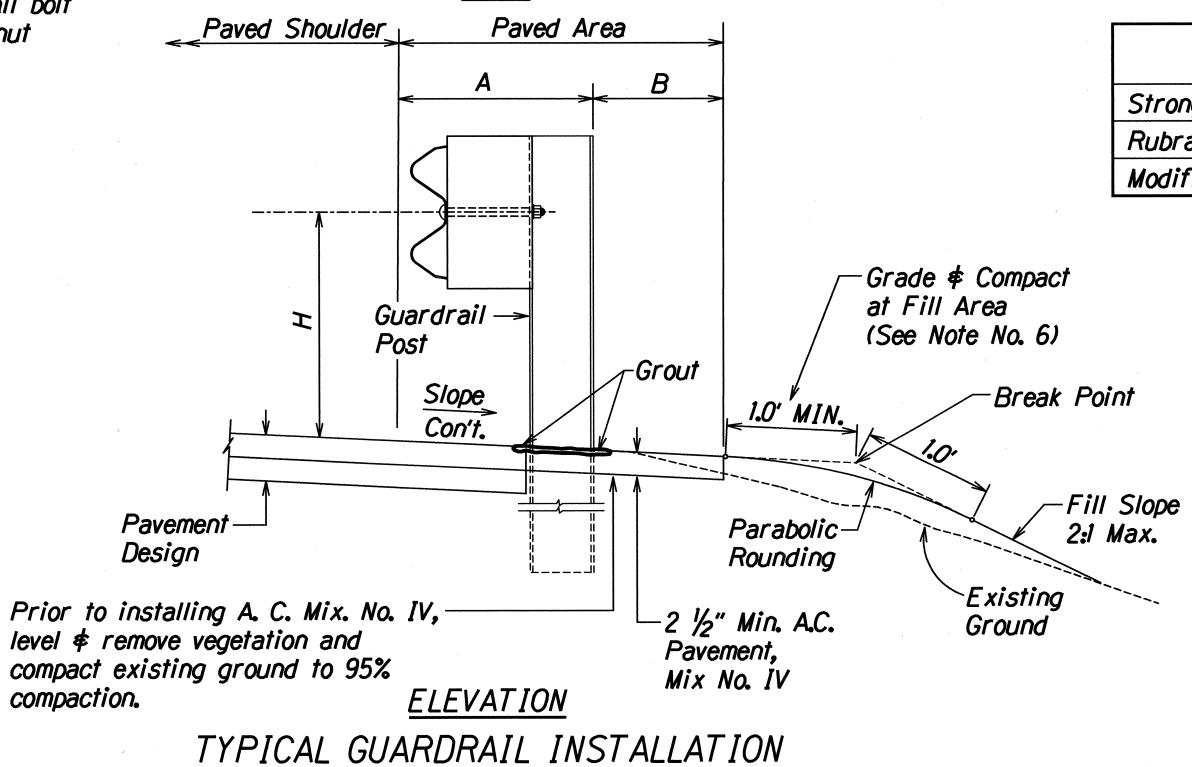
RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)



compaction.

(Rail and washer not shown) STEEL POST AND BLOCK DETAIL





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.

FED. ROAD DIST. NO.

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PROJ. NO.

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- 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. After the guardrail posts are installed in the paved area, the Contractor shall grout around the guardrail post and seal all cracks in the paved area that was 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 grouting. The cost for this work shall not be paid for separately, but shall be considered incidental to the various guardrail items.
- 6. When standards for the fill slope area cannot be met, a site specific, engineer approved design may be used.

SCALE: AS NOTED

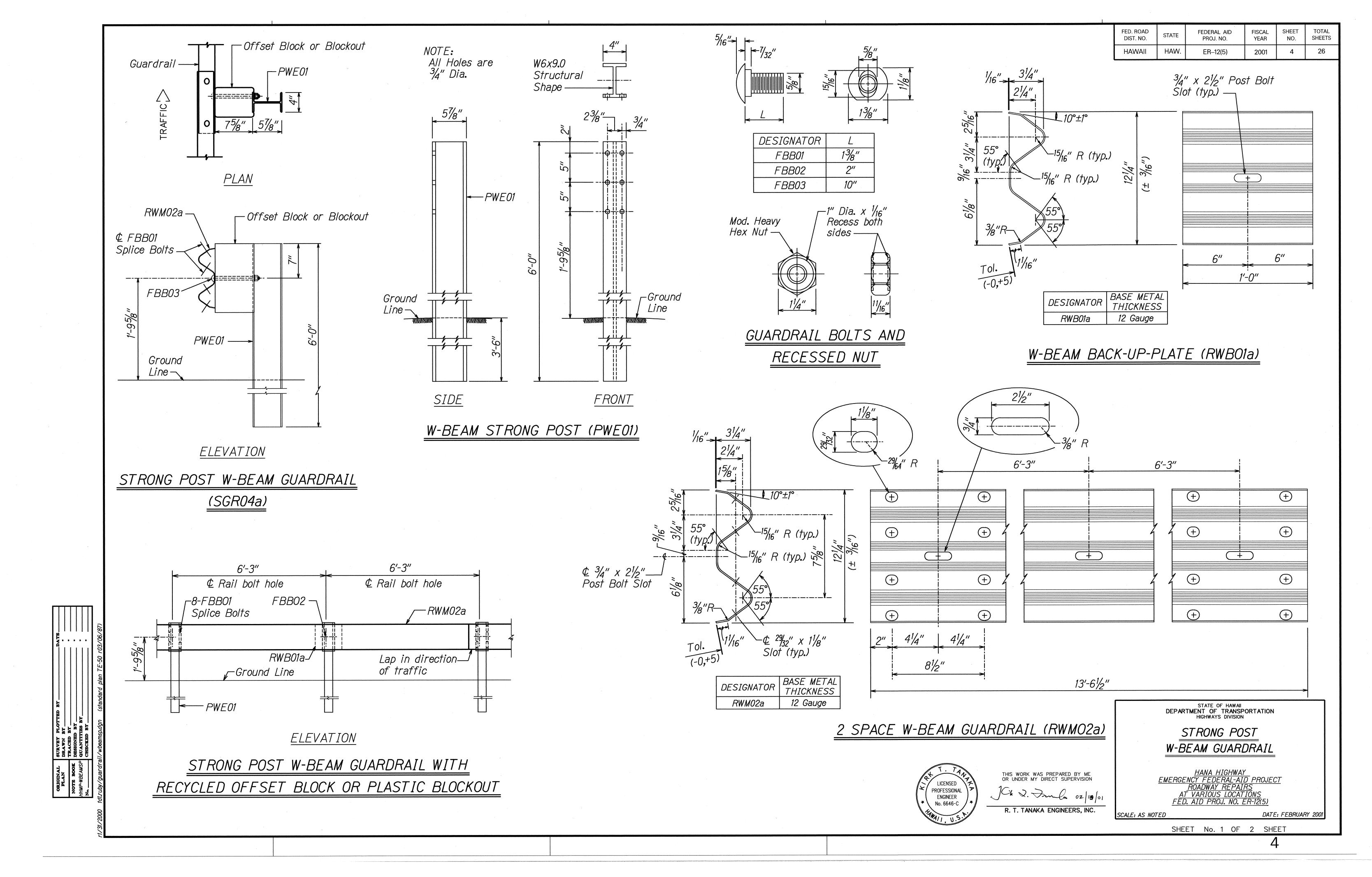
GUARDRAIL TYPE	DIMENSION		
	Н	A	В
Strong Post w/W Beam	1'-95/8"	1'-6"	1'-0"
Rubrail	2'-0"	1'-6"	2'-0"
Modified Thrie Beam	2'-0"	2'-0"	1'-0"

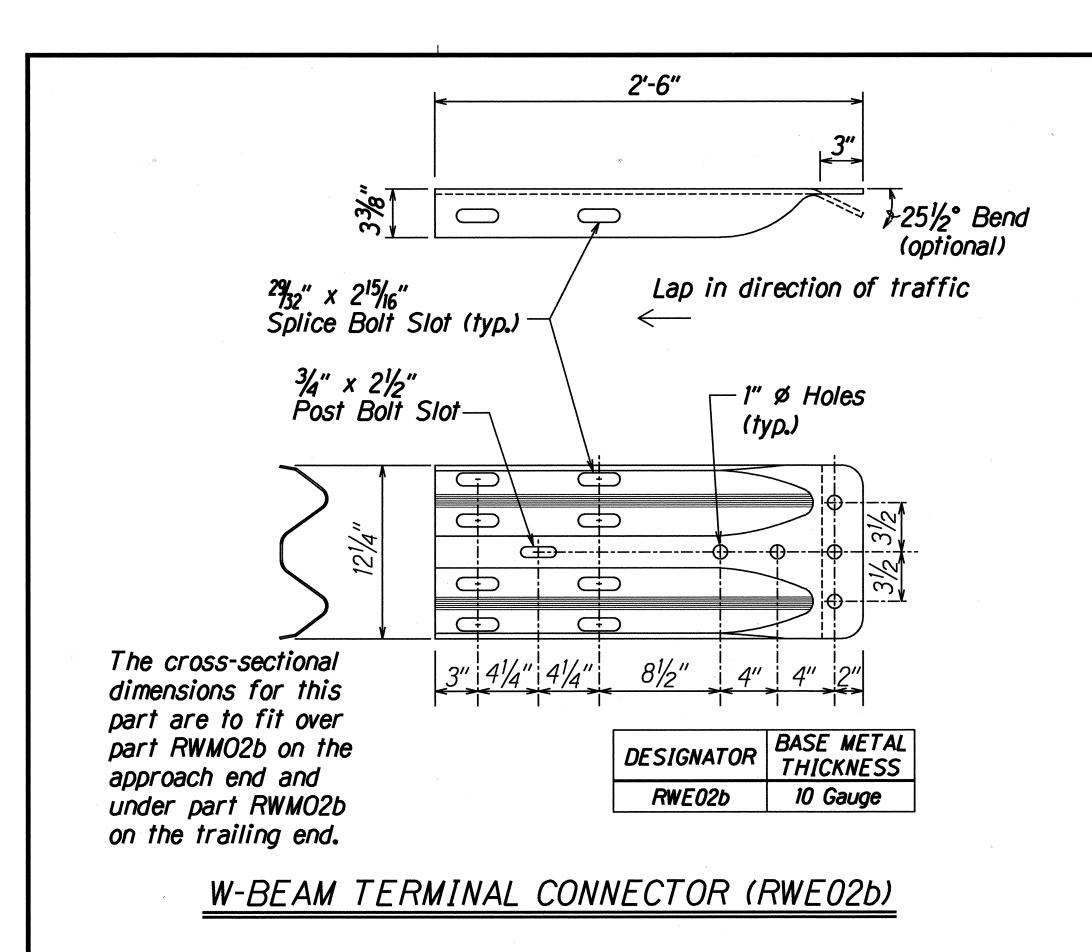
PROFESSIONAL Sk Q. Famla 02/13/01 R. T. TANAKA ENGINEERS, INC.

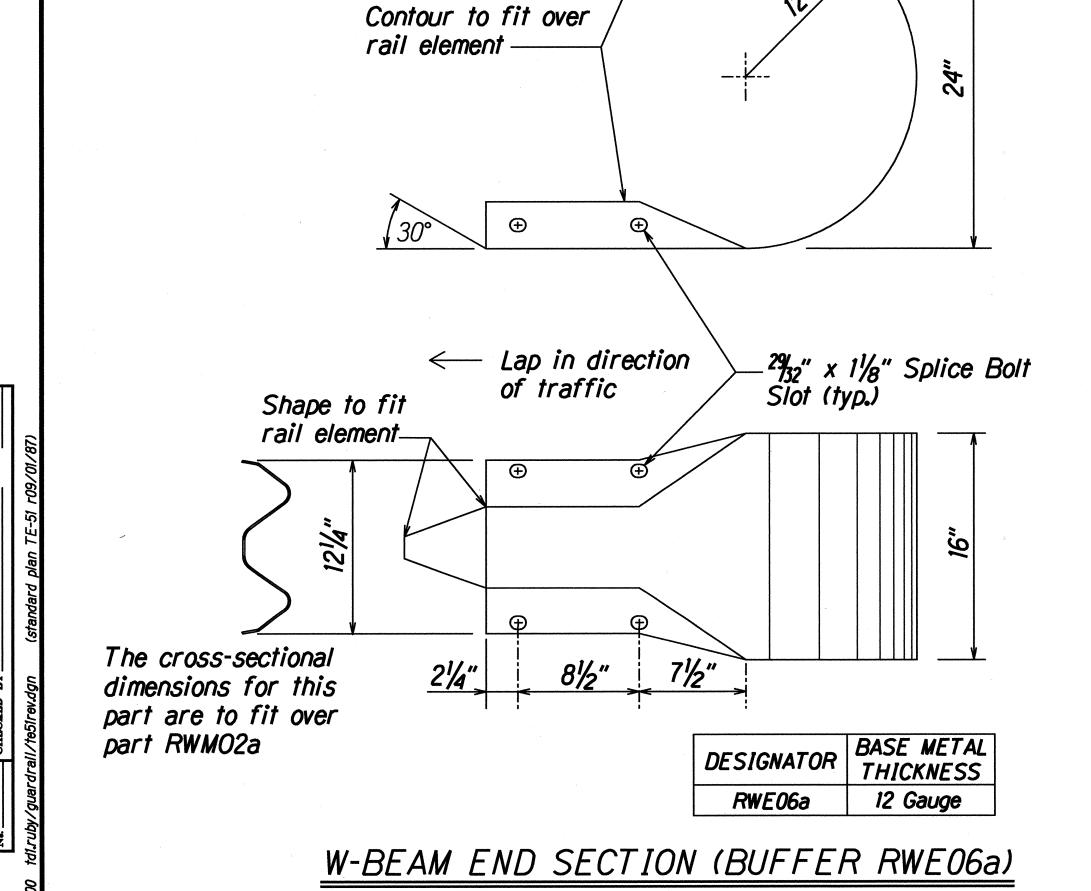
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION GUARDRAIL DETAILS AND NOTES

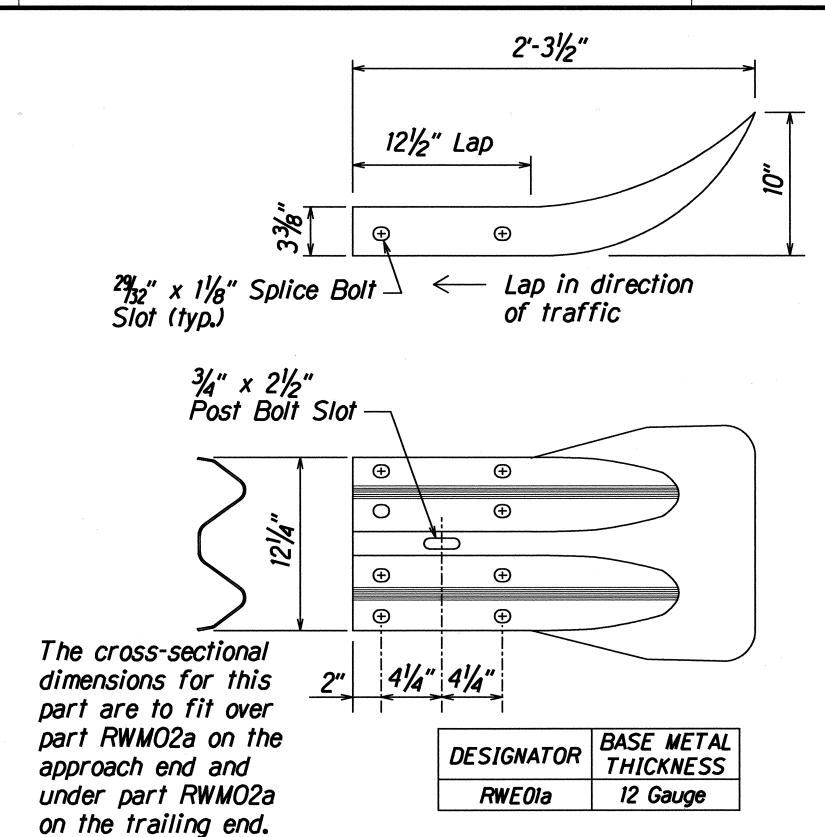
DATE: FEBRUARY 2001

SHEET No. 1 OF 1 SHEET

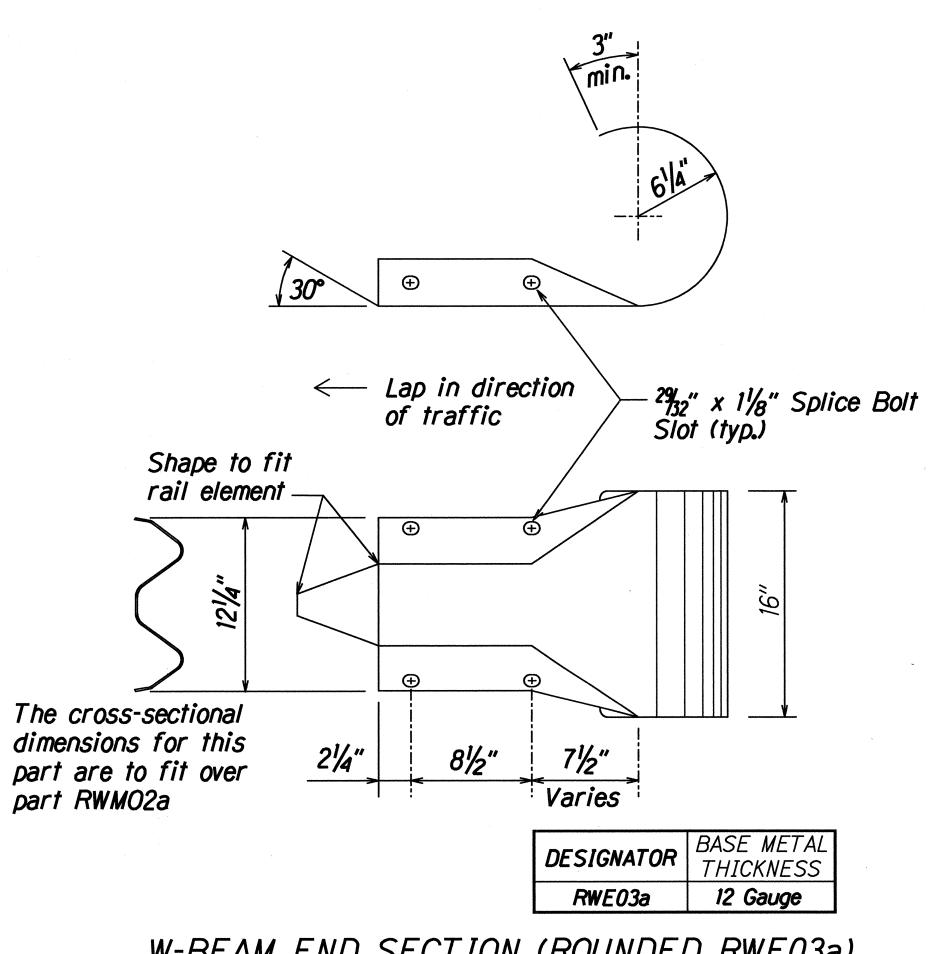




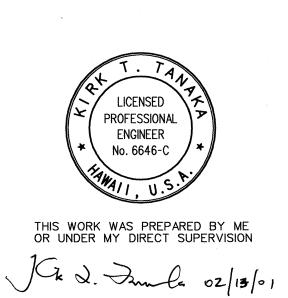




W-BEAM END SECTION (FLARED RWE01a)



W-BEAM END SECTION (ROUNDED RWE03a)



R. T. TANAKA ENGINEERS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FED. ROAD DIST. NO.

HAWAII

STATE

HAW.

FEDERAL AID PROJ. NO.

ER-12(5)

FISCAL YEAR

2001

SHEET NO.

STRONG POST W-BEAM GUARDRAIL

HANA HIGHWAY

EMERGENCY FEDERAL-AID PROJECT

ROADWAY REPAIRS

AT VARIOUS LOCATIONS

FED. AID PROJ. NO. ER-12(5)

SCALE: AS NOTED DATE: FEBRUARY 2001

SHEET No. 2 OF 2 SHEET

