

<u>SIDE</u>

RECYCLED PLASTIC BLOCKOUT (TYPE I)

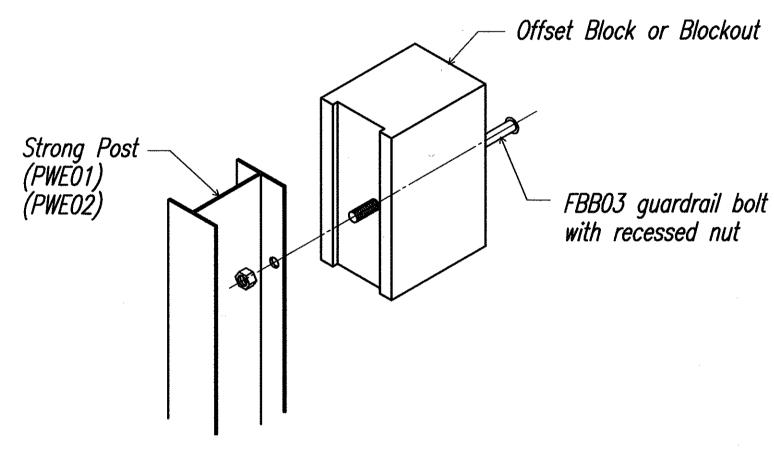
3/8"

5

4

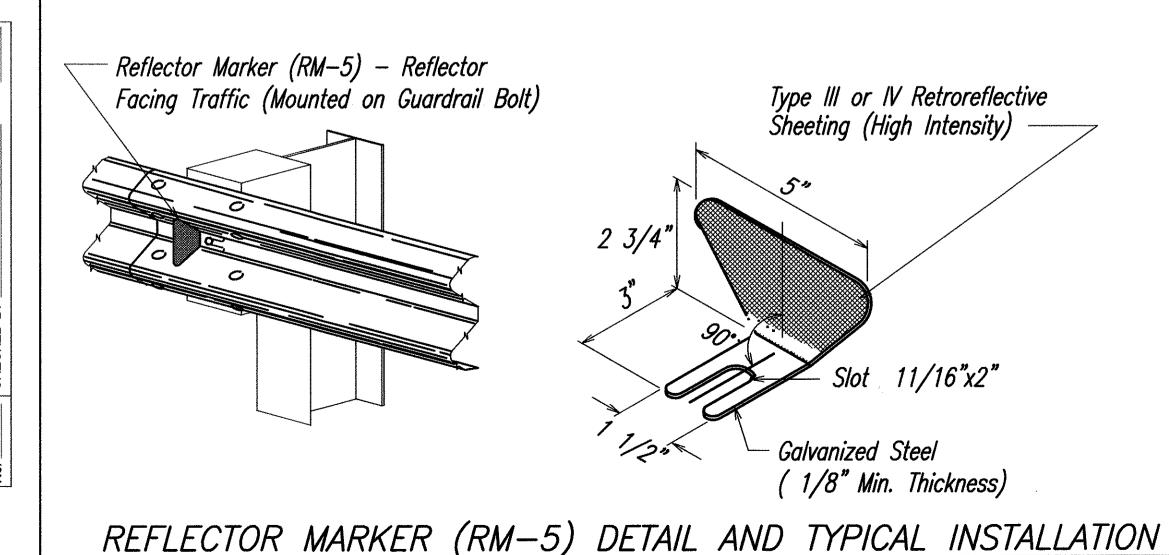
1 7/8"

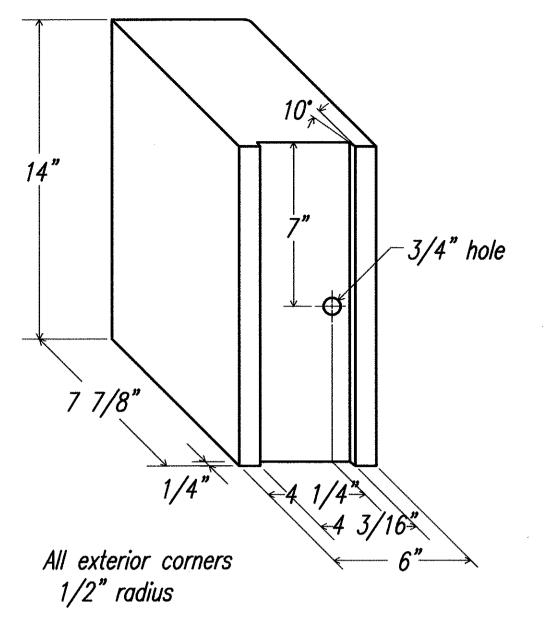
<u>TOP</u>



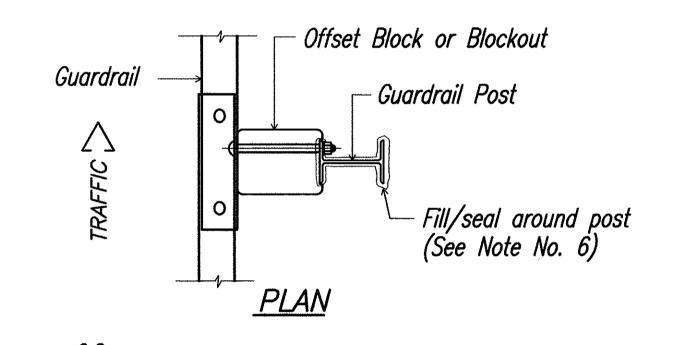
Exploded View (Rail and washer not shown)

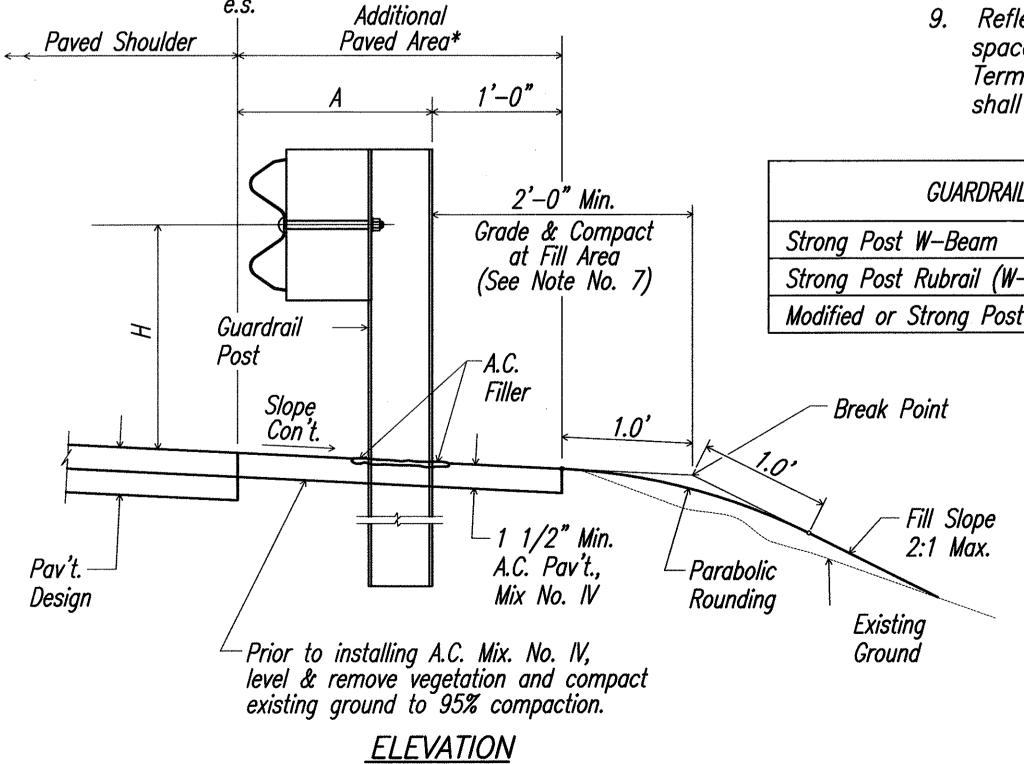
STEEL POST AND BLOCK DETAIL





RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)





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.

FED. ROAD DIST. NO.

STATE

FEDERAL — AID PROJ. NO.

NH-A311(7)

FISCAL YEAR

2004

SHEET NO.

TOTAL SHEETS

138

- 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 100 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"
Modified or Strong Post Thrie Beam	2'-0"	2'-0"

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

GUARDRAIL DETAILS AND NOTES

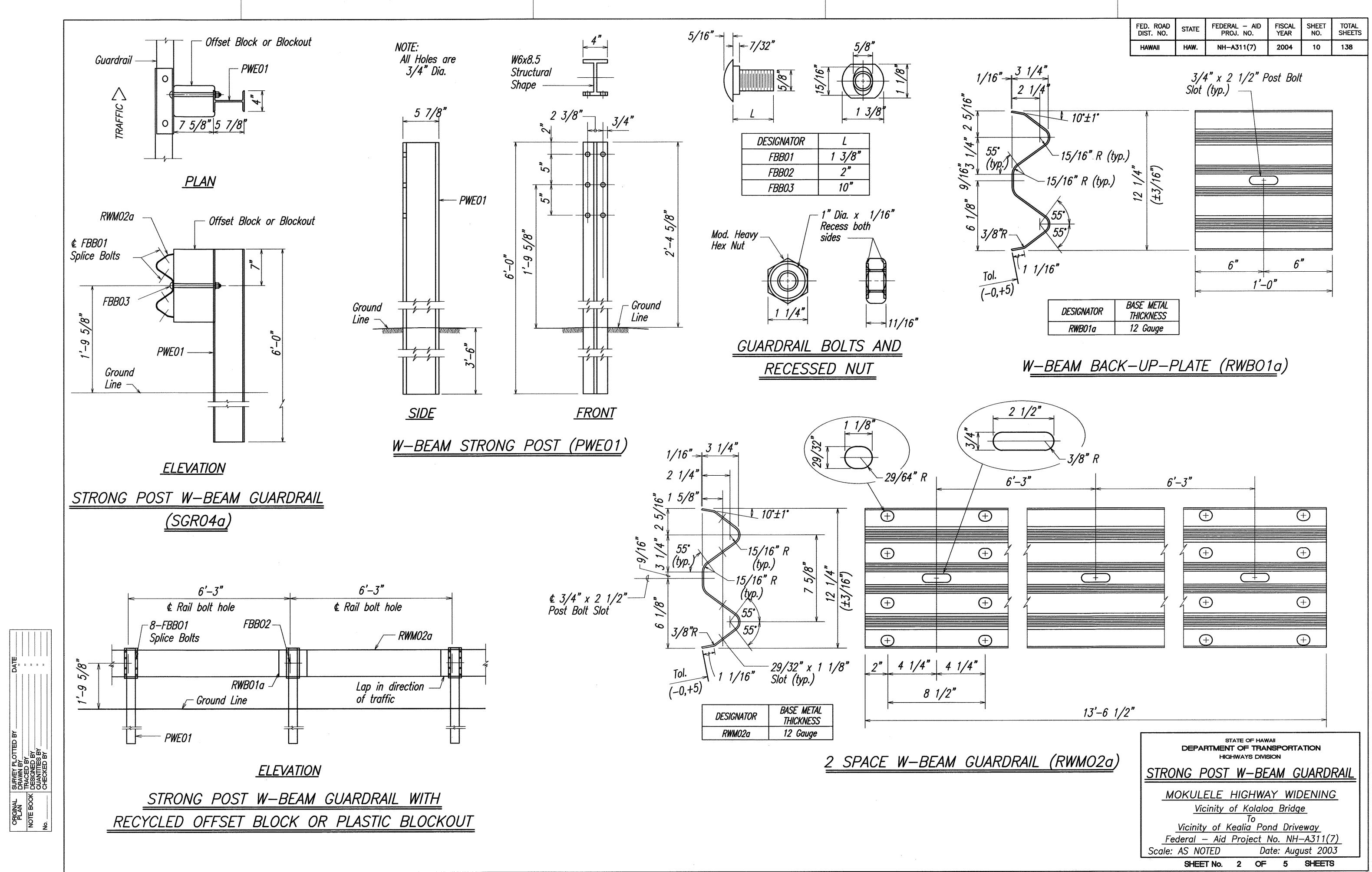
MOKULELE HIGHWAY WIDENING

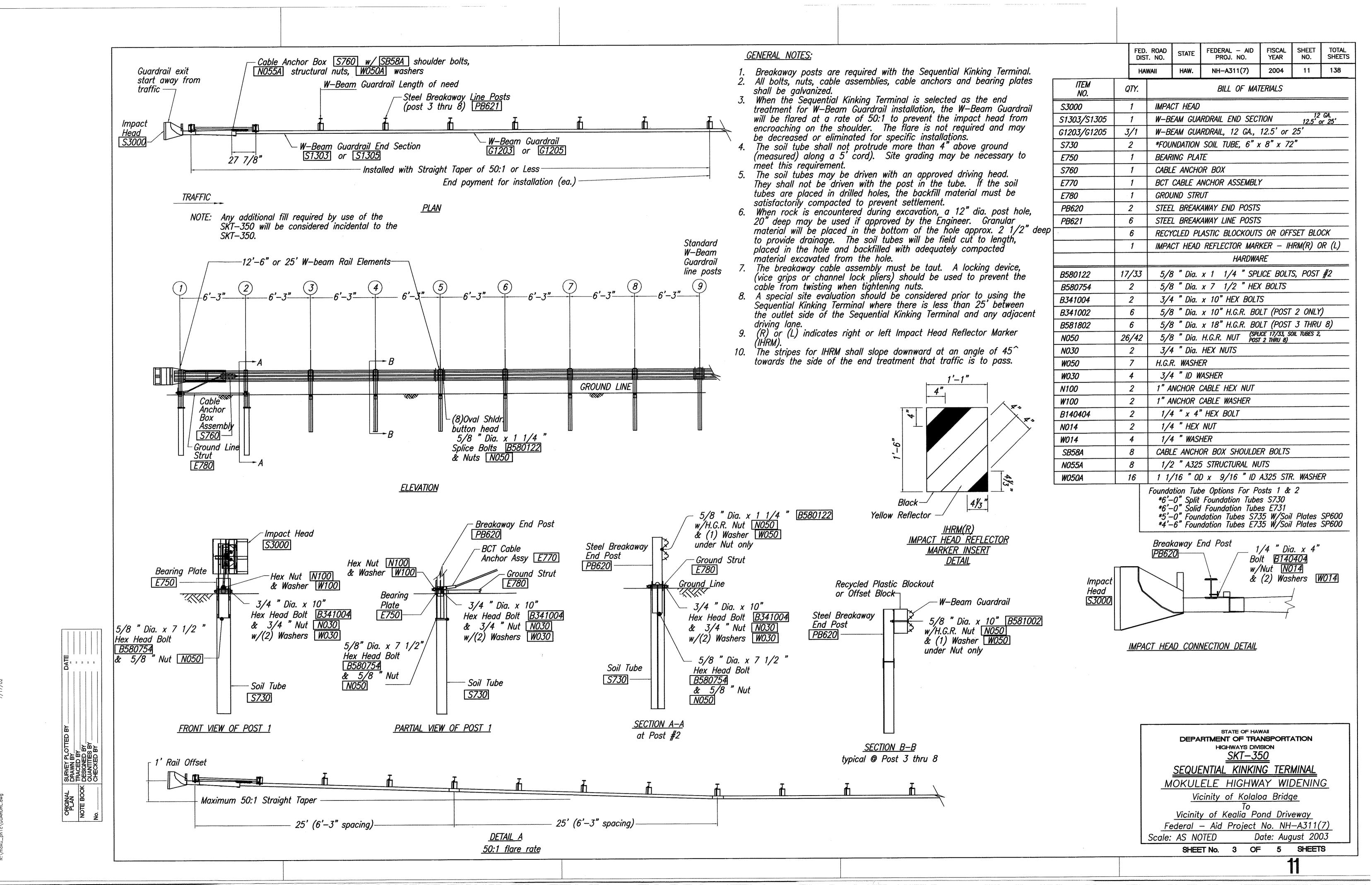
Vicinity of Kolaloa Bridge

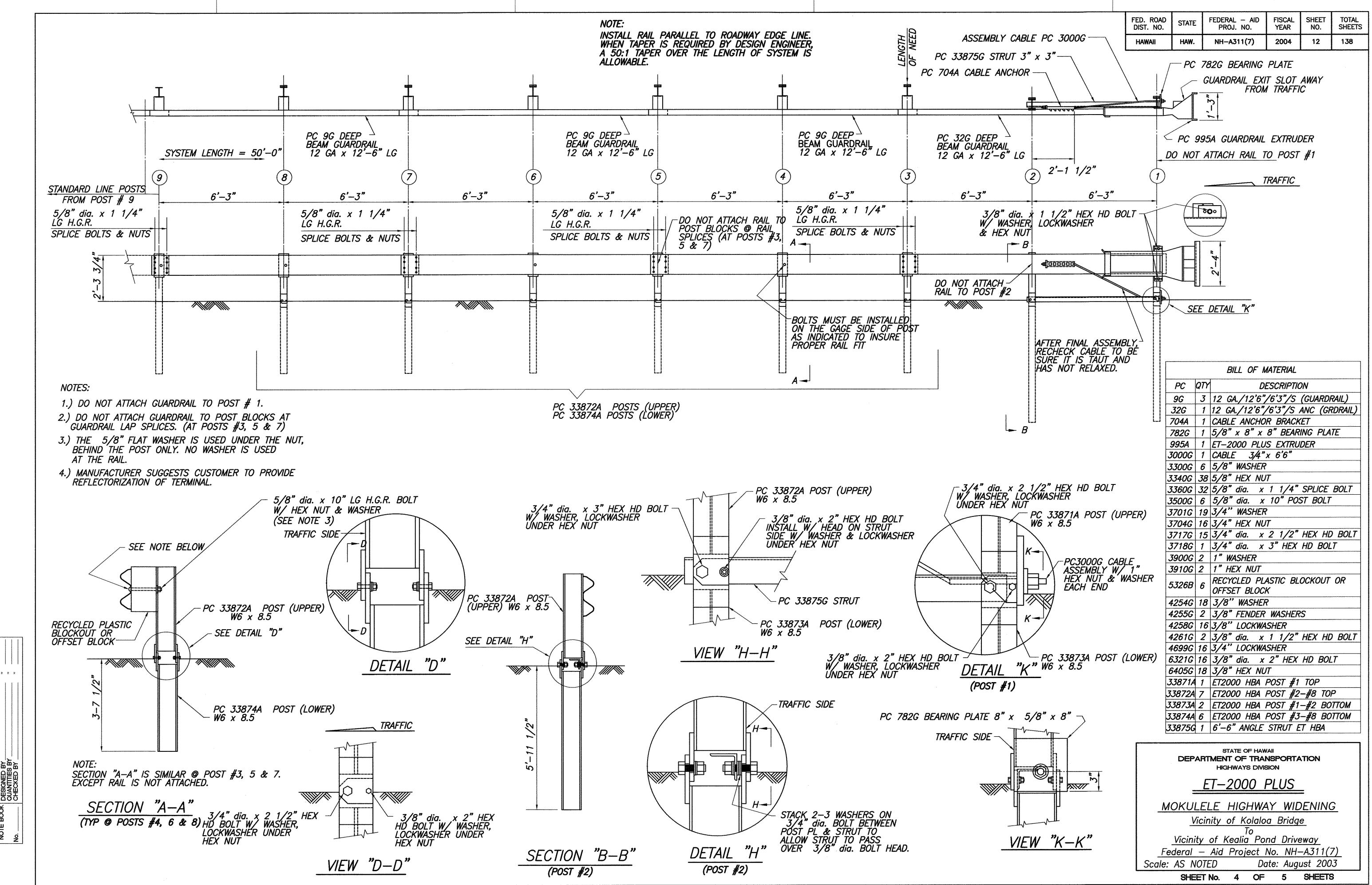
Vicinity of Kealia Pond Driveway Federal - Aid Project No. NH-A311(7) Scale: AS NOTED Date: August 2003

SHEET No. 1 OF 5 SHEETS

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
OUANITIES BY
CHECKED BY



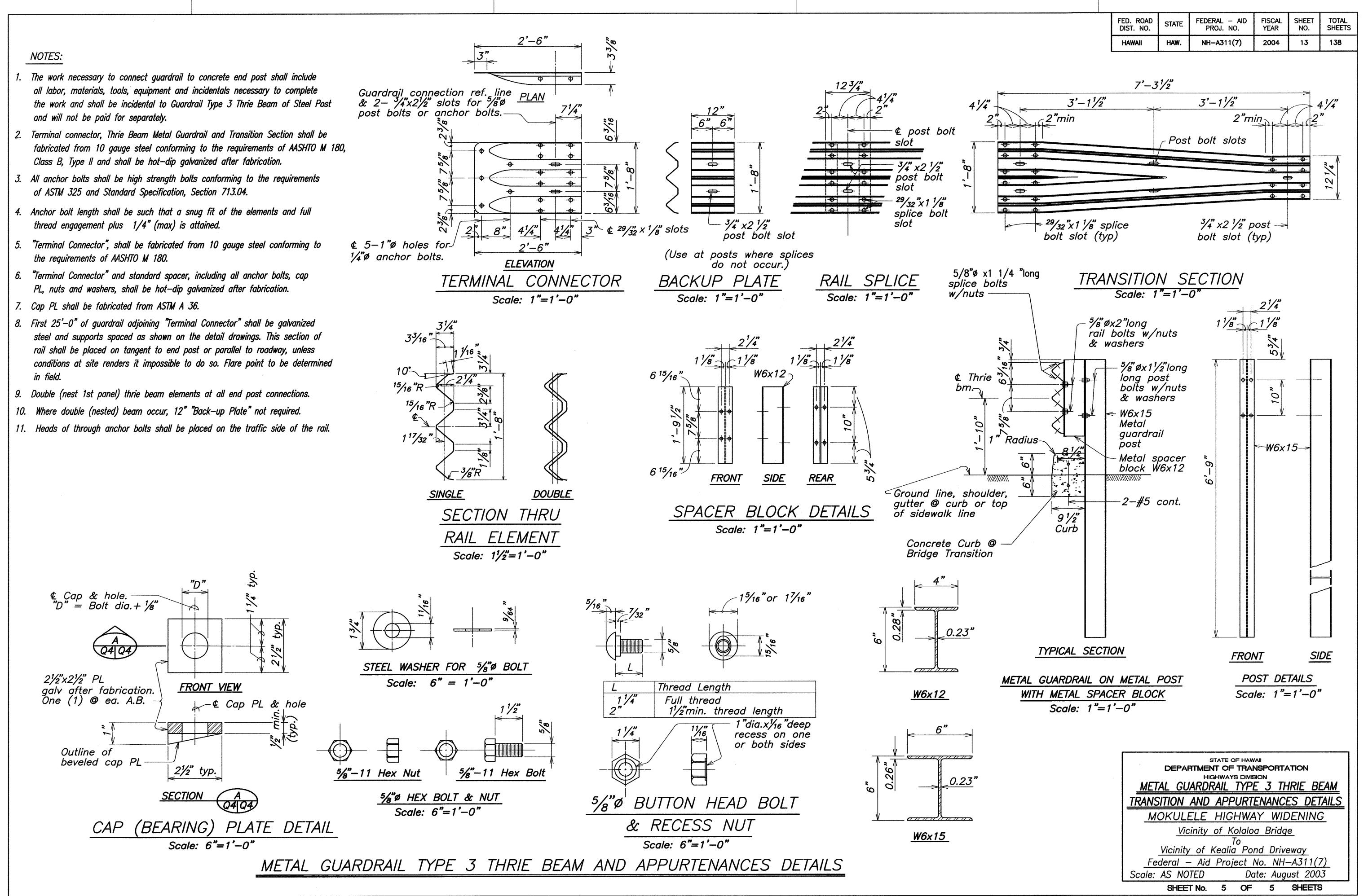




7/17/02

ROJ. NO.: M9901.00

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PROJ. NO.: M99(

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