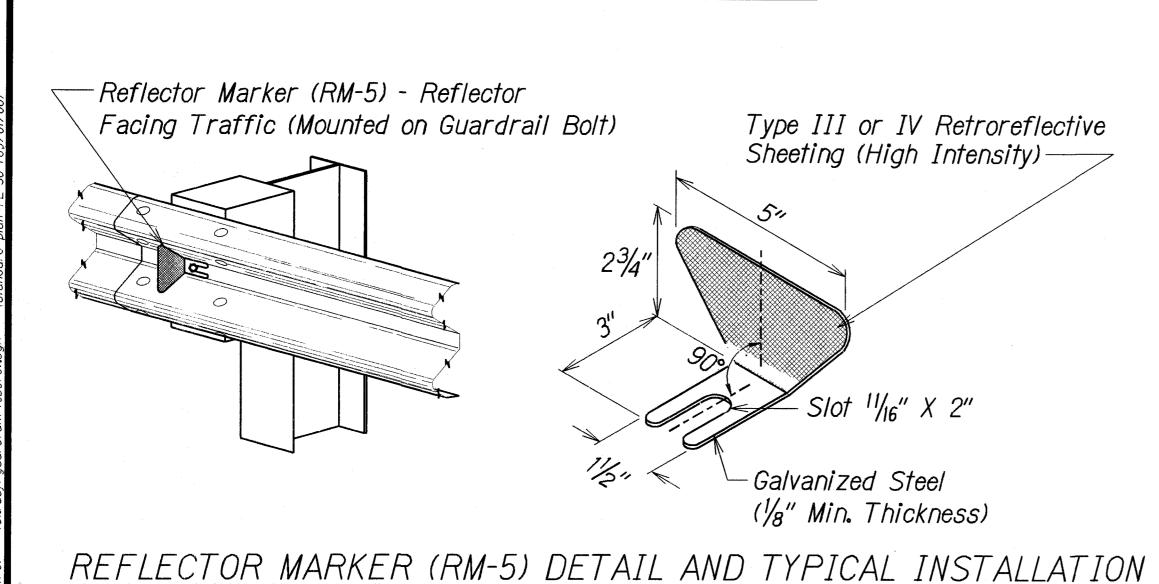
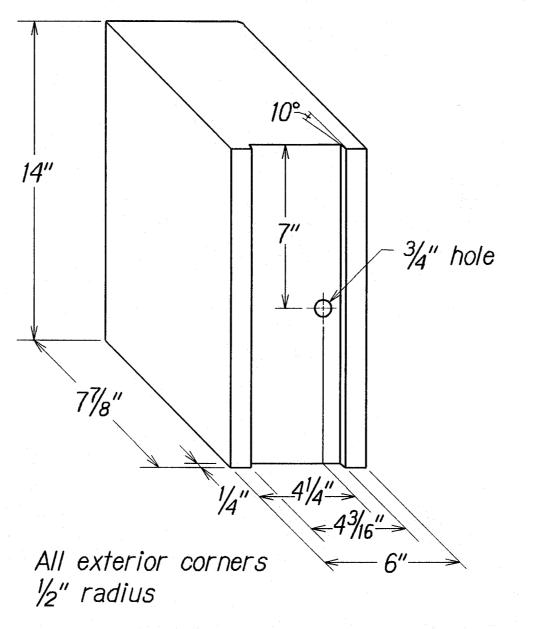


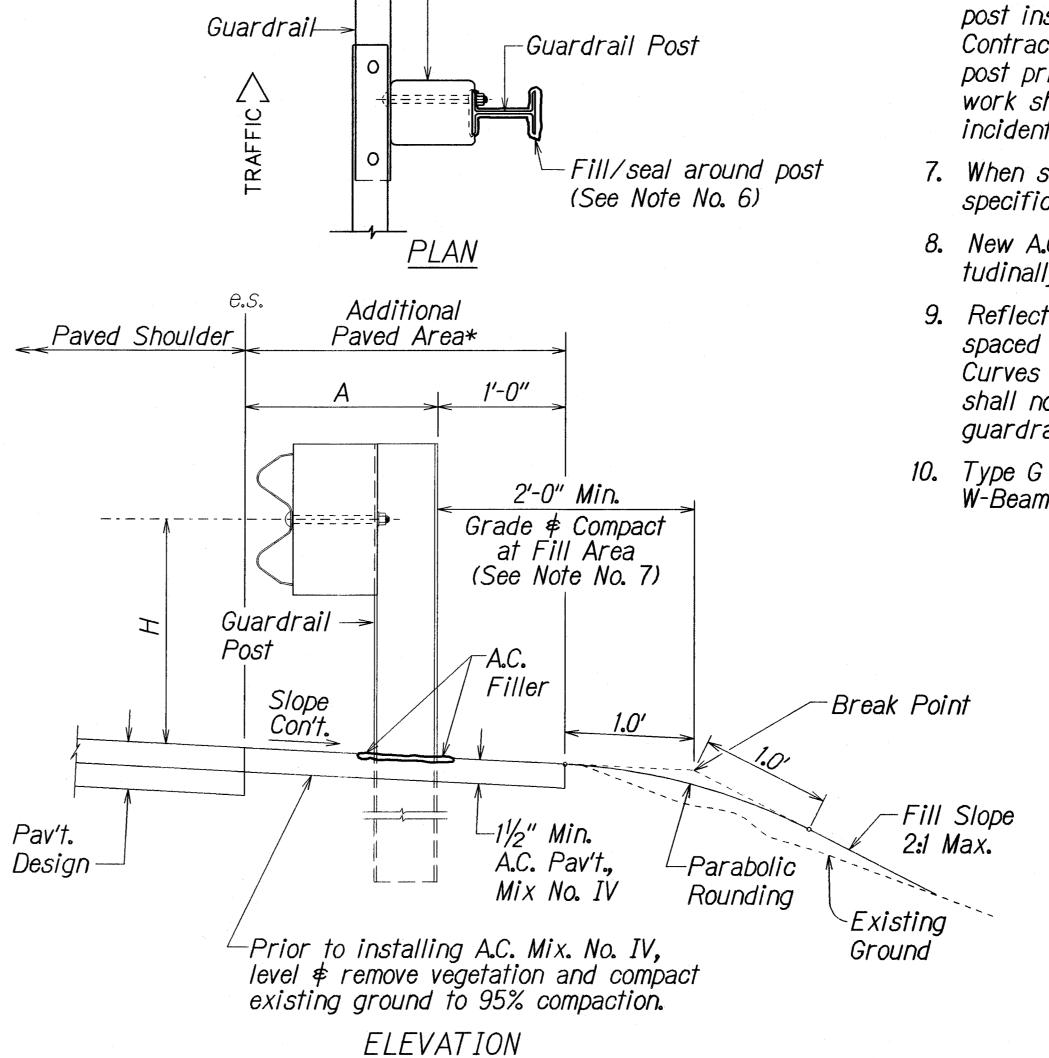
STEEL POST AND BLOCK DETAIL

(Rail and washer not shown)





RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)



TYPICAL GUARDRAIL INSTALLATION

-Offset Block or Blockout

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

FISCAL SHEET TOTAL YEAR NO. SHEETS

2008

PROJ. NO.

HAW. 360B-01-09M

- 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. Spacing of RM-5's on Horizontal Curves shall comply with Table III-1 of the MUTCD. RM-5's shall not be installed on Terminal Sections. RM-5 on new guardrail shall be incidental to guardrail pay item.
- 10. Type G end terminals shall be paid for under Strong Post W-Beam Guardrail.

GUARDRAIL TYPE	DIMENSION	
	H	Α
Strong Post W-Beam	1'-95/8"	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

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GUARDRAIL DETAILS \$ NOTES

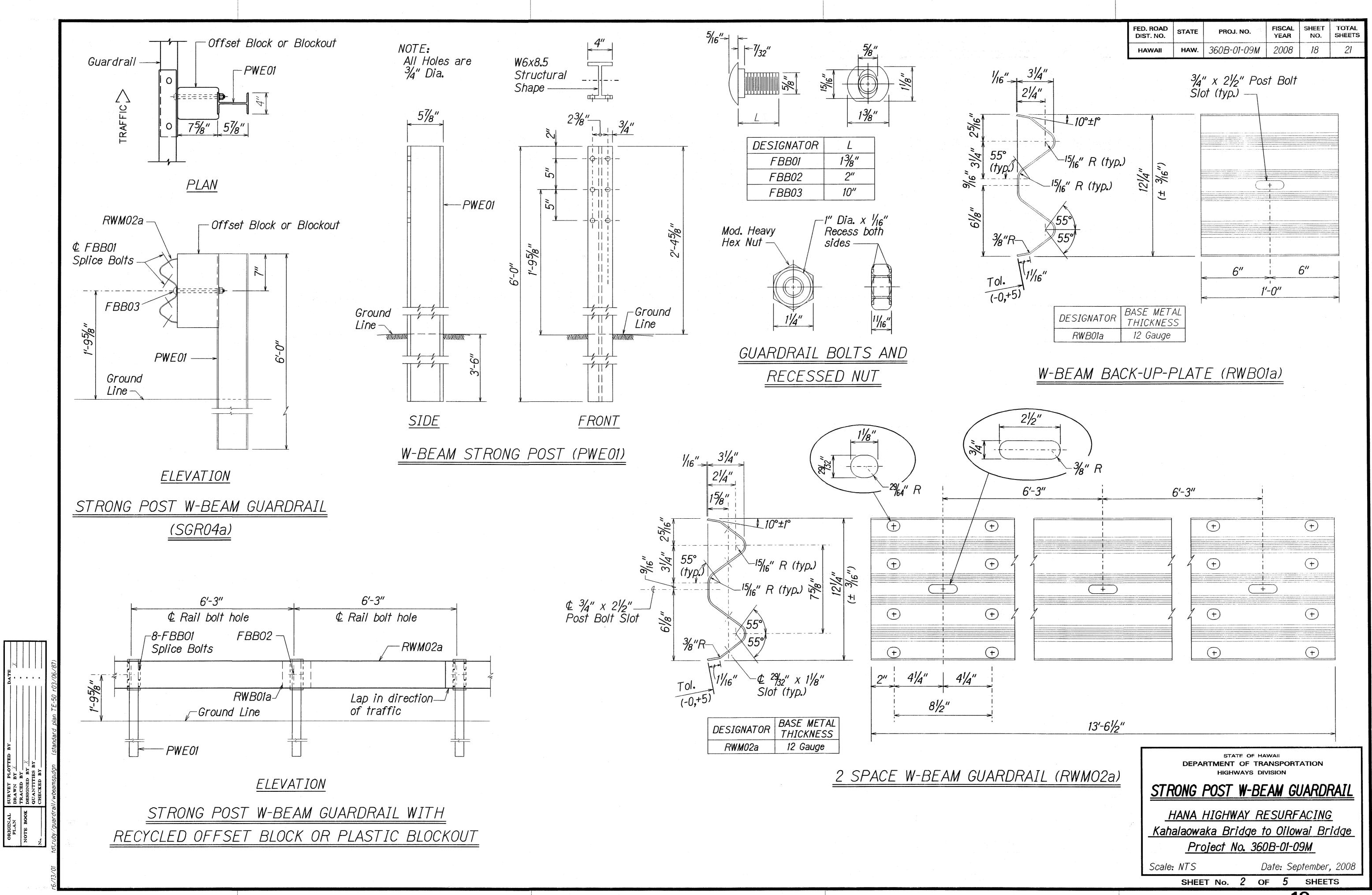
HANA HIGHWAY RESURFACING
Kahalaowaka Bridge to Oilowai Bridge
Project No. 360B-01-09M

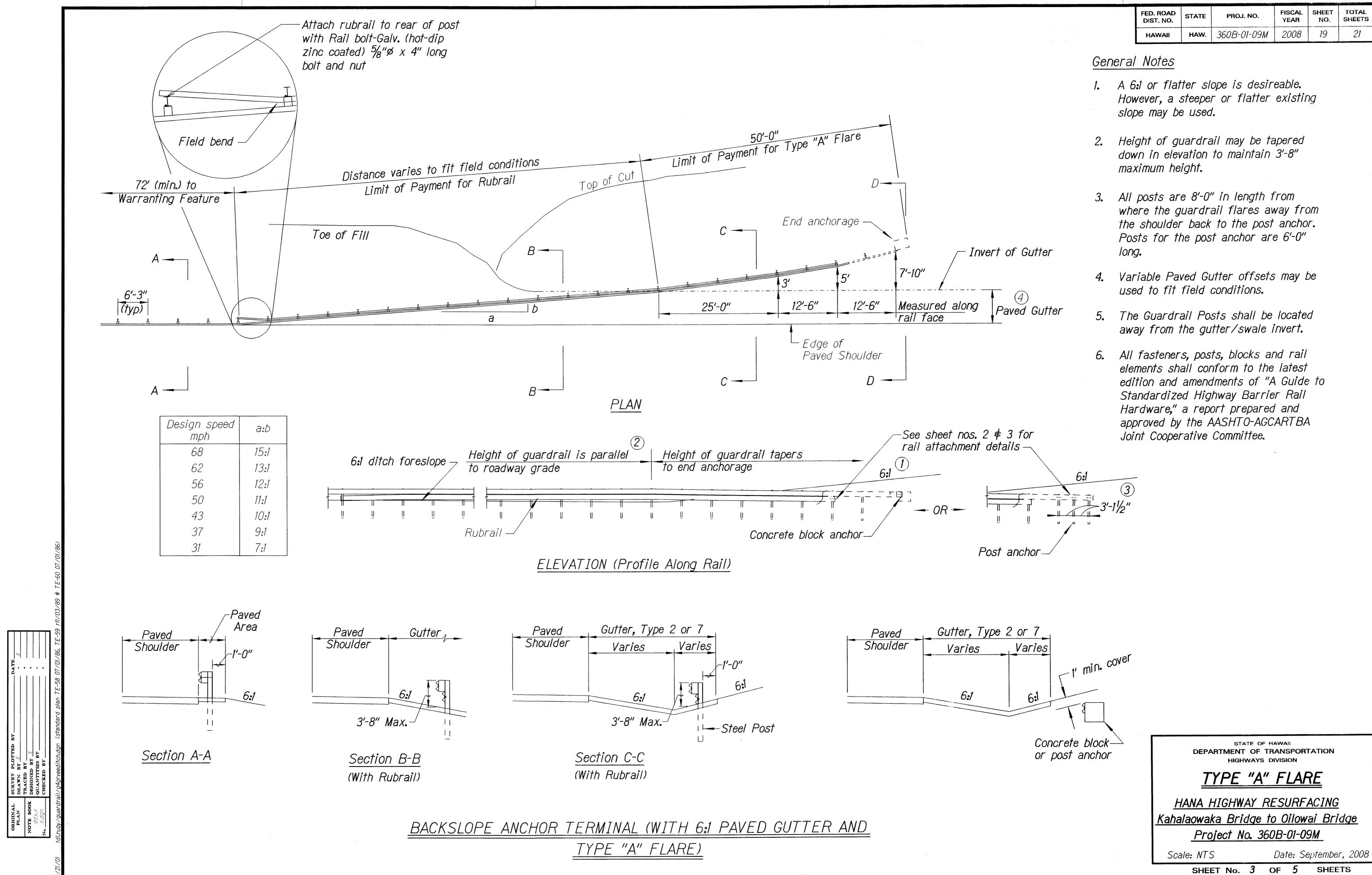
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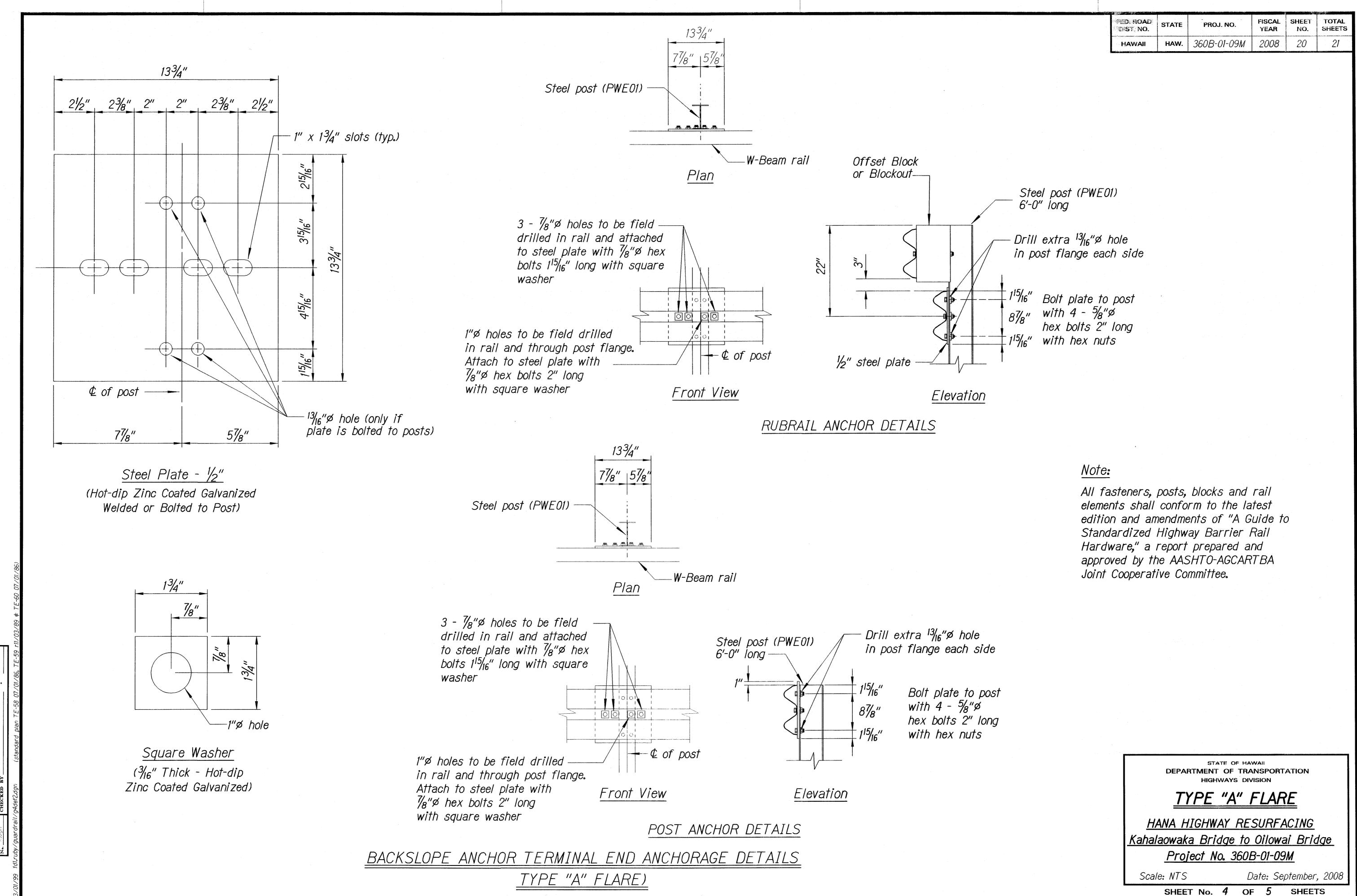
Date: September, 2008

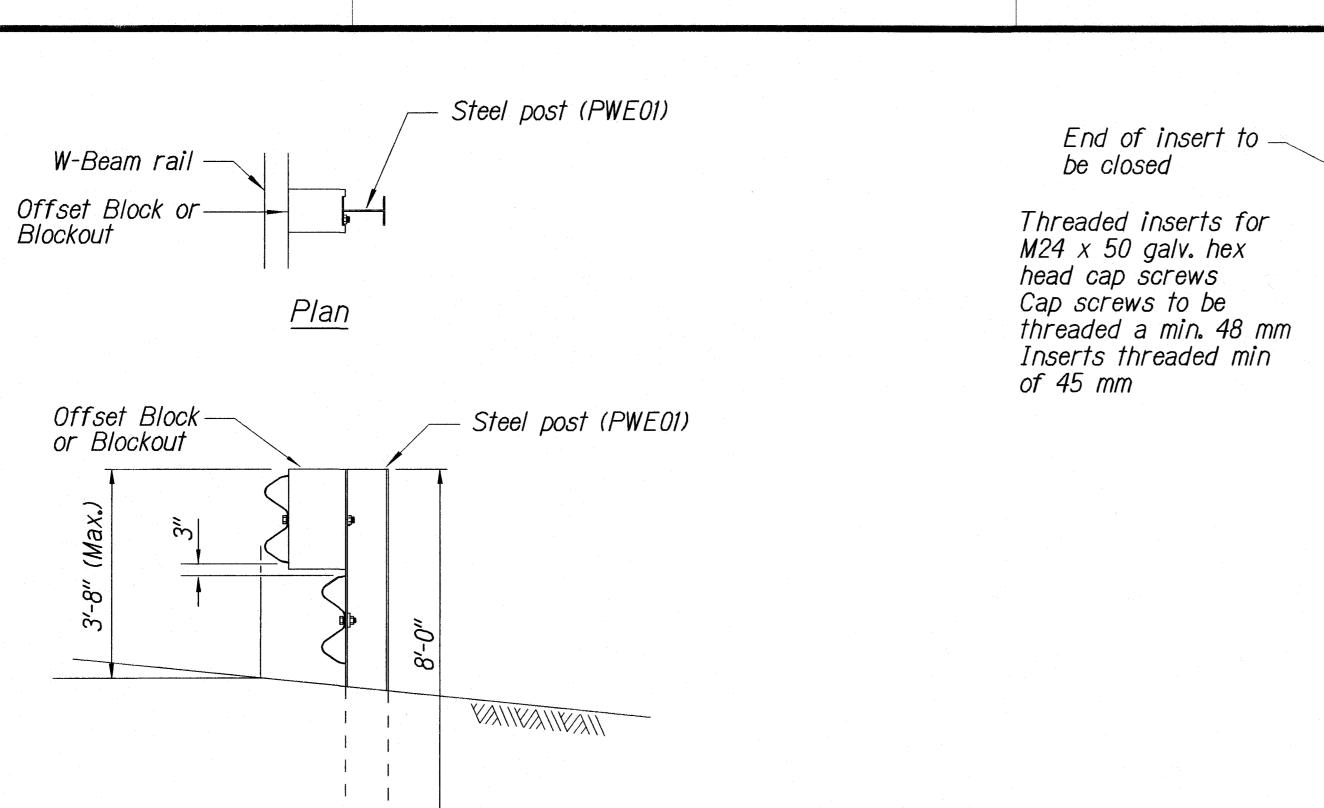
SHEET No. 1 OF 5 SHEETS

1



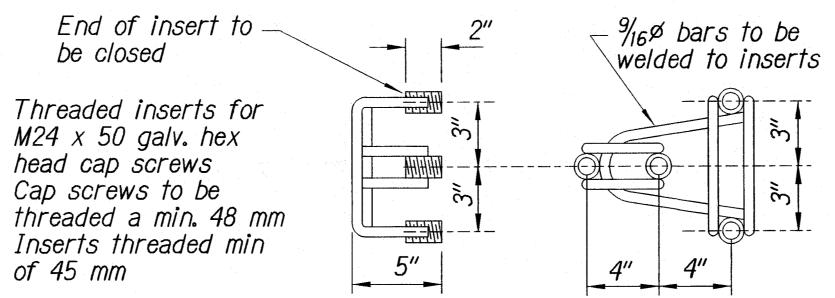




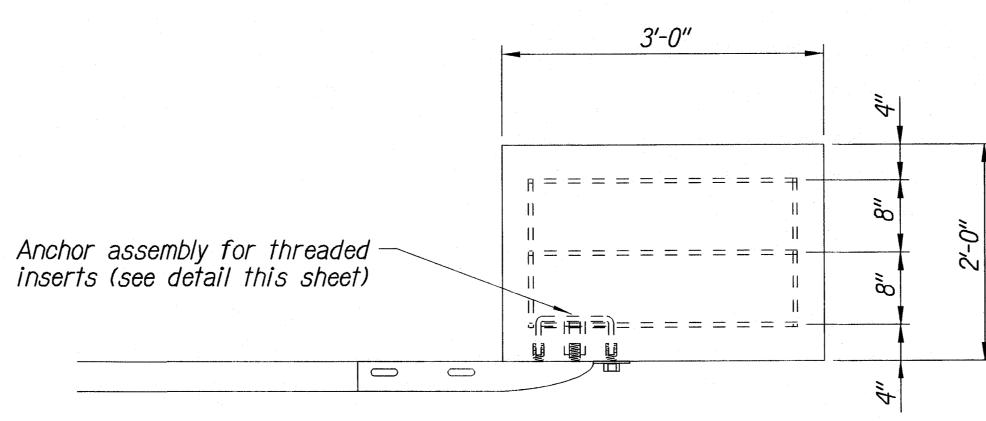


Elevation

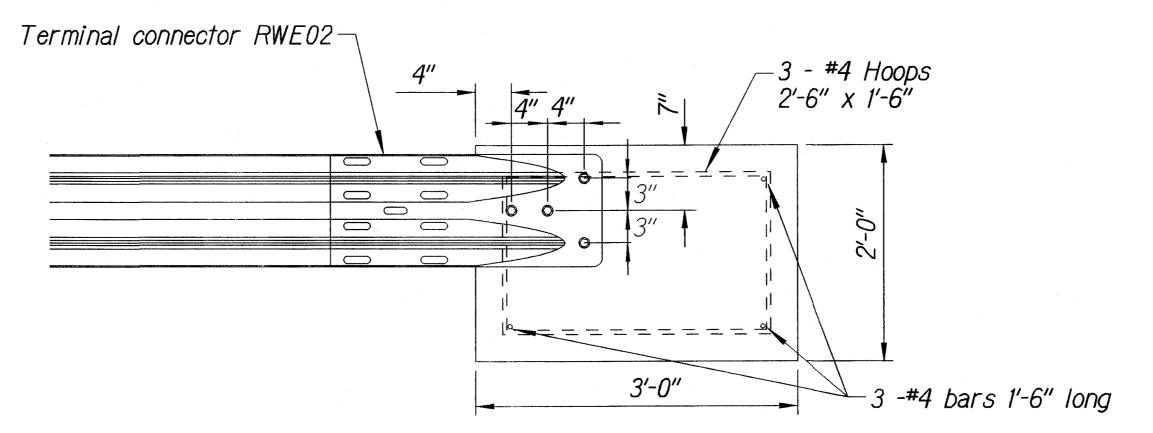
STEEL POST GUARDRAIL WITH RUBRAIL



ANCHOR ASSEMBLY CONCRETE BLOCK ANCHOR



Plan



Elevation

CONCRETE BLOCK ANCHOR (2' X 2' X 3')

BACKSLOPE ANCHOR TERMINAL END ANCHORAGE DETAILS TYPE "A" FLARE)

FED. ROAD DIST. NO. FISCAL SHEET TOTAL YEAR NO. SHEETS PROJ. NO. SHEETS 2008 21 360B-01-09M HAW.

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.

> STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

TYPE "A" FLARE

HANA HIGHWAY RESURFACING Kahalaowaka Bridge to Oilowai Bridge Project No. 360B-01-09M

Scale: NTS

Date: September, 2008

SHEET No. 5 OF 5 SHEETS

