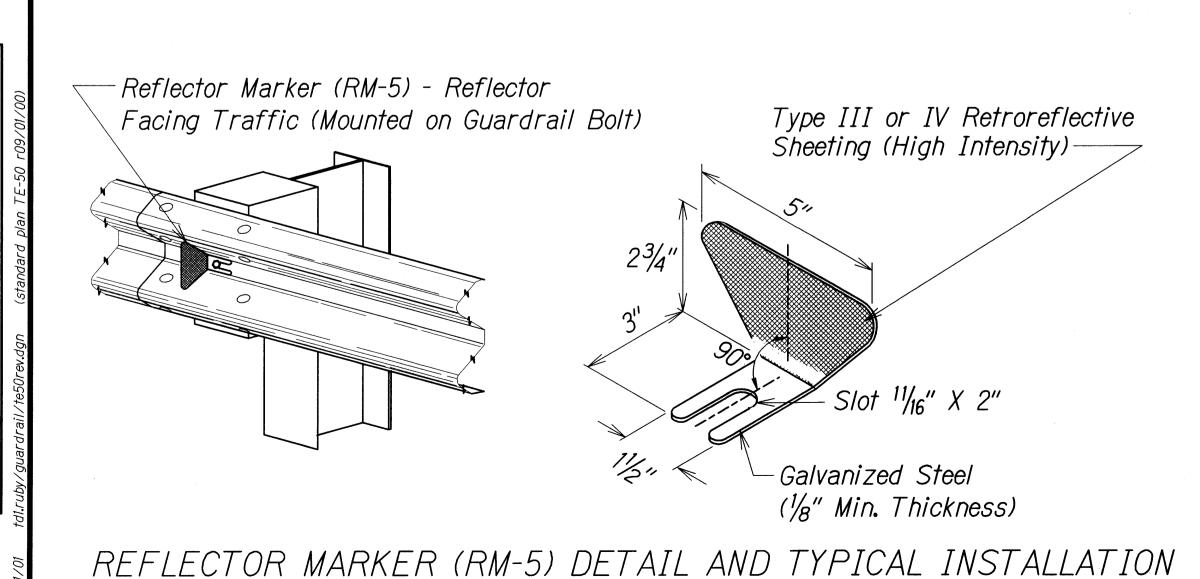


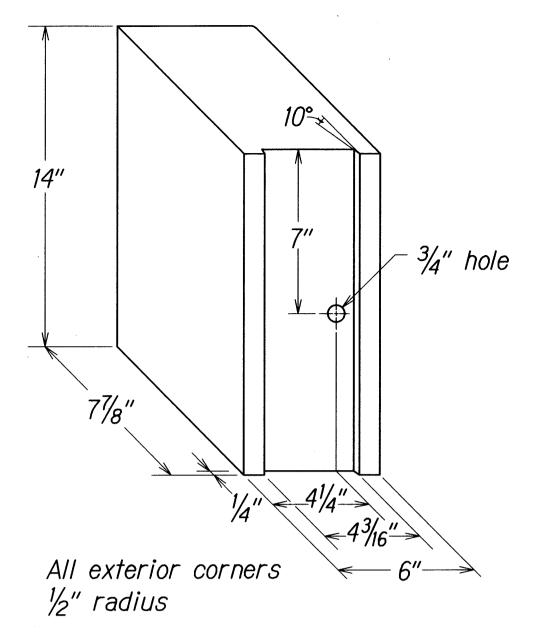
Offset Block or Blockout Strong Post (PWE01) (PWE02) FBB03 guardrail bolt with recessed nut

Exploded View (Rail and washer not shown)

SURVEY PLOTTE
DRAWN BY X
TRACED BY
DESIGNED BY X
QUANTITIES BY
CHECKED BY

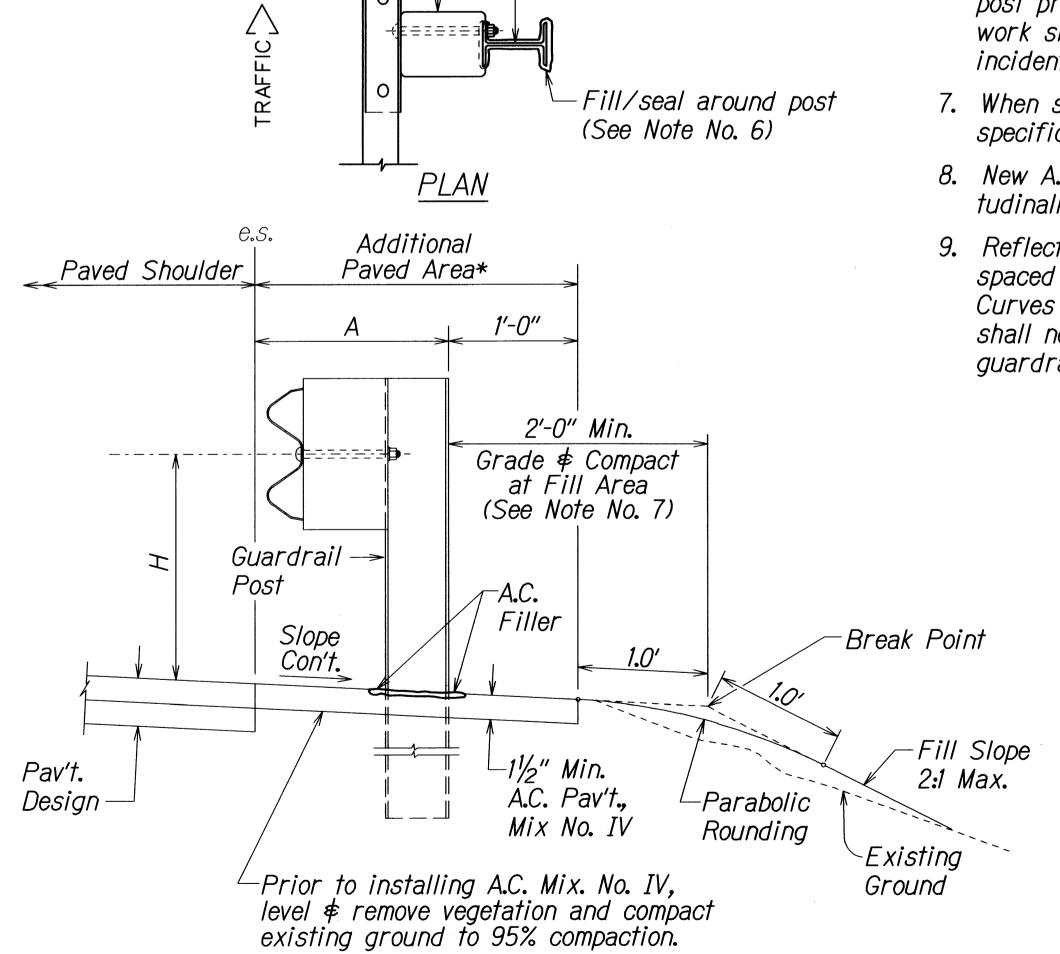
STEEL POST AND BLOCK DETAIL





RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)

Guardrai L



ELEVATION

TYPICAL GUARDRAIL INSTALLATION

-Offset Block or Blockout

-Guardrail Post

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

PROJ. NO.

HAW. 360B-01-12M

- 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.

GUARDRAIL TYPE	DIMENSION	
	Н	A
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

GUARDRAIL DETAILS & NOTES

HANA HIGHWAY RESURFACING Vicinity of Waikani Bridge to Kapaula Bridge Project No. 360B-01-12M

Scale: NTS

Date: December, 2011

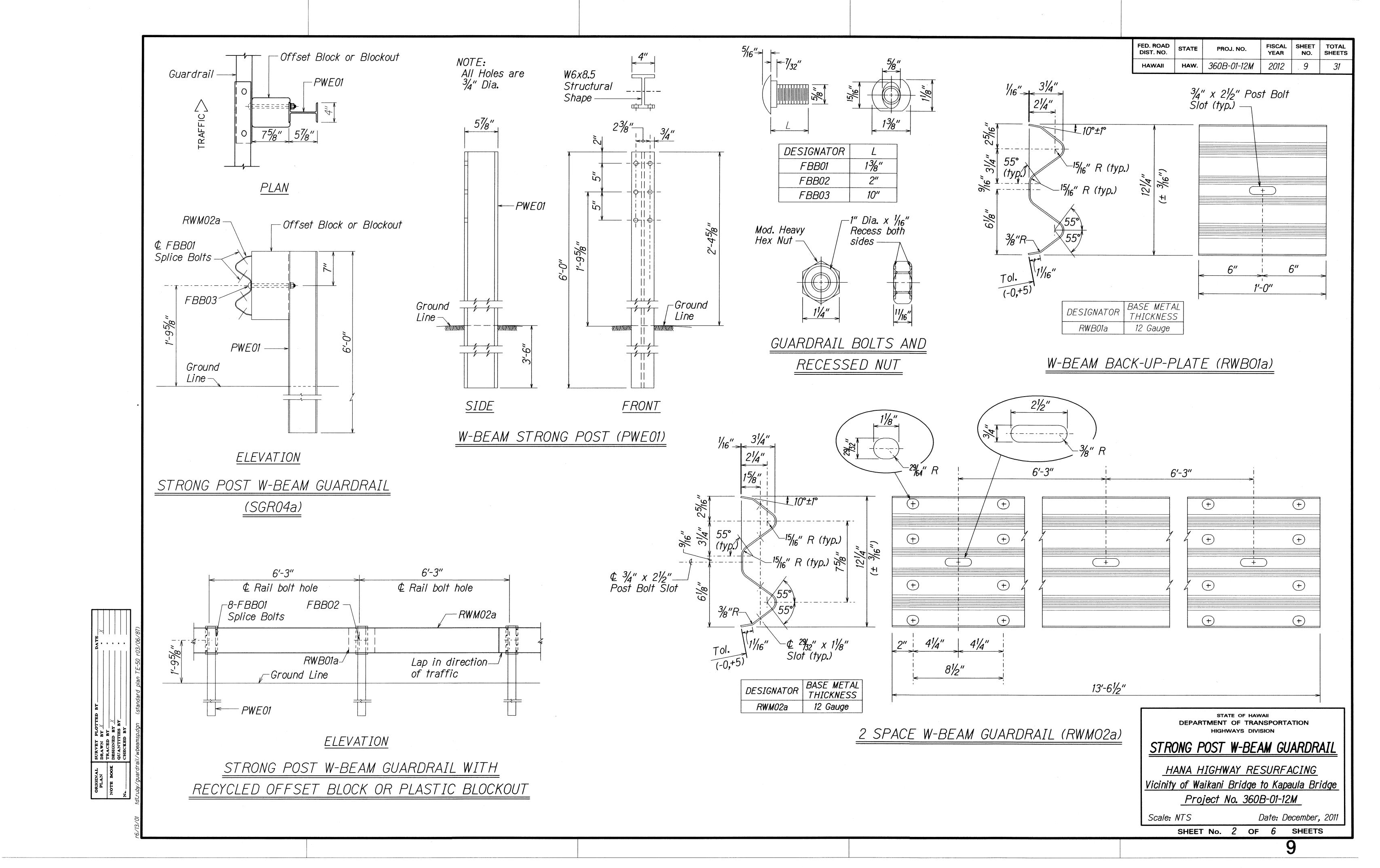
FISCAL SHEET TOTAL YEAR NO. SHEETS

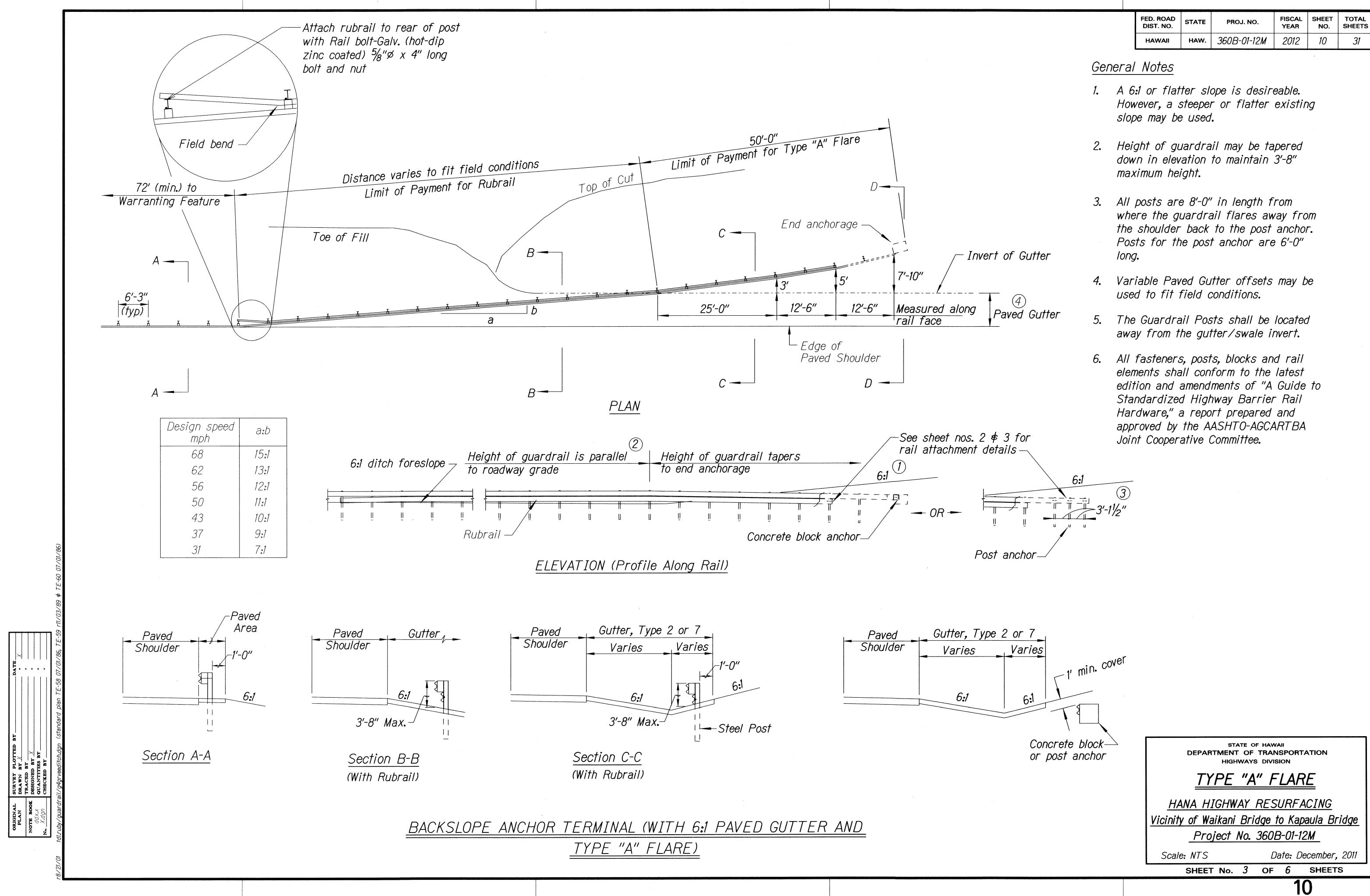
2012

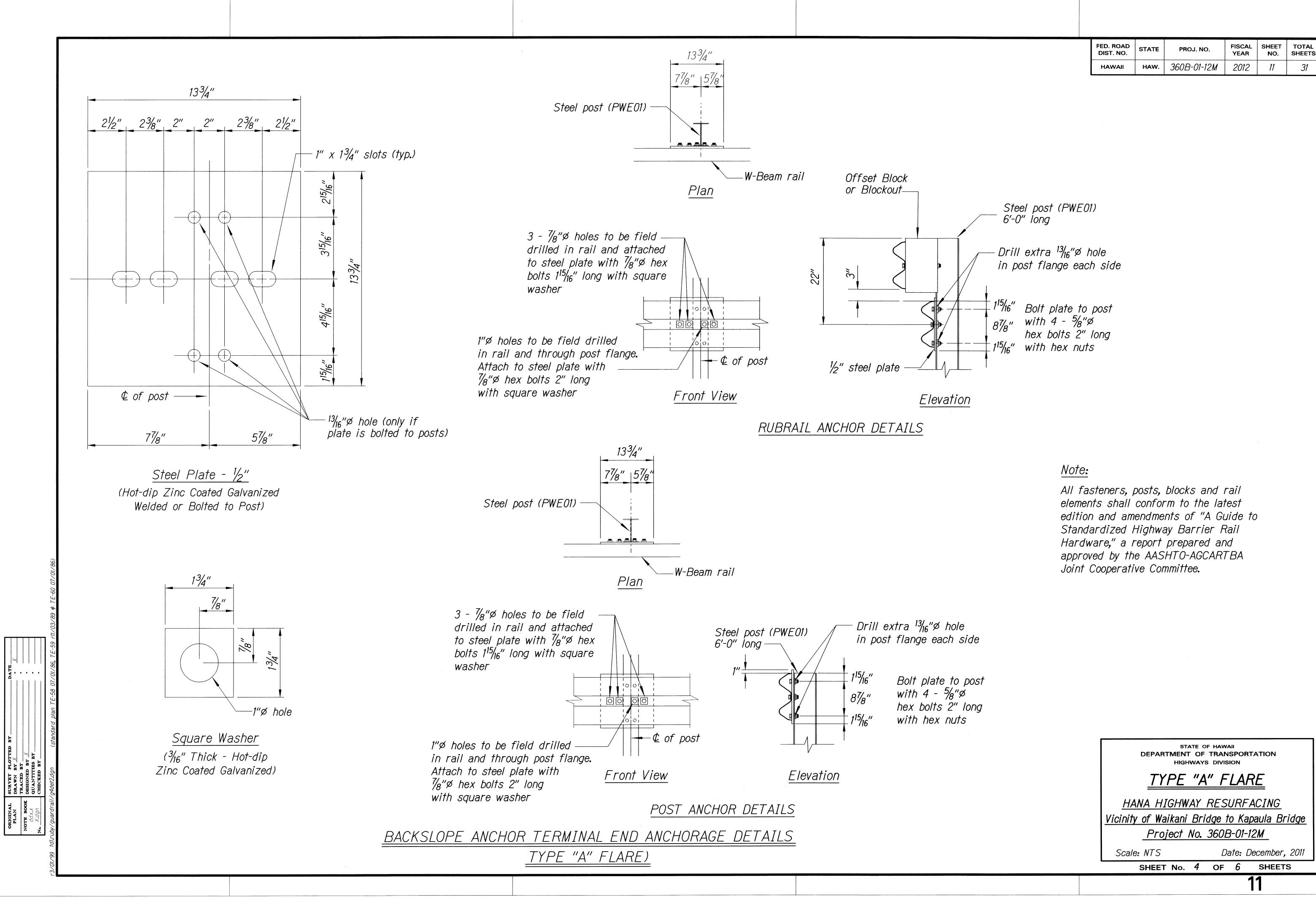
SHEET No. 1

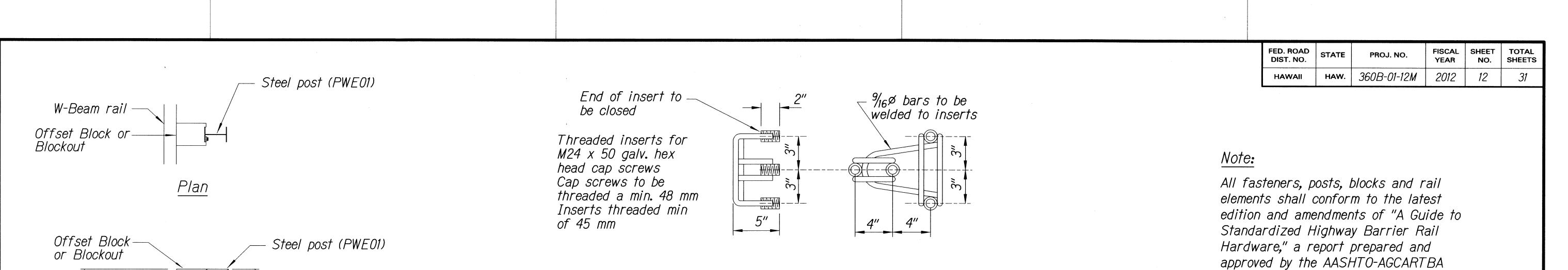
OF 6

SHEETS

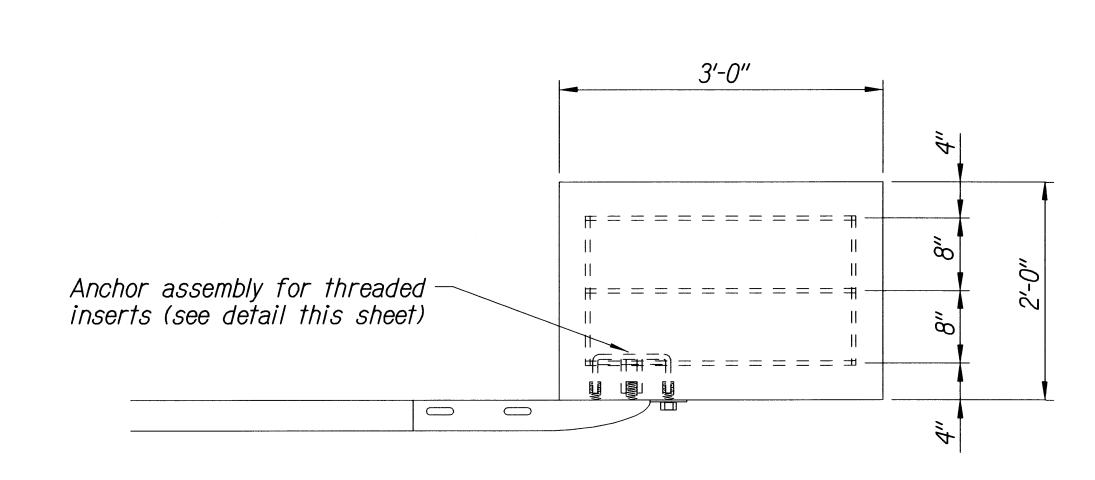




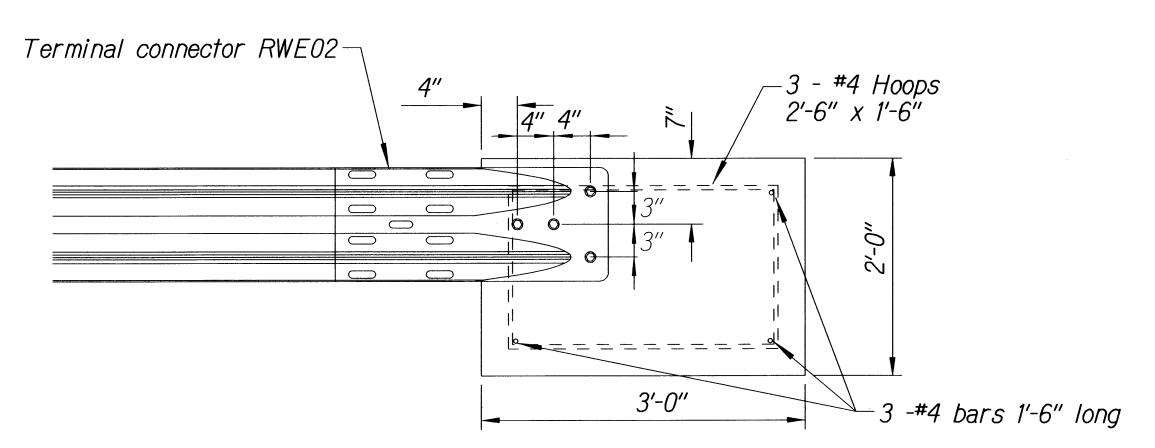




ANCHOR ASSEMBLY CONCRETE BLOCK ANCHOR



Plan



Elevation

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

BACKSLOPE ANCHOR TERMINAL END ANCHORAGE DETAILS

TYPE "A" FLARE)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPE "A" FLARE

HANA HIGHWAY RESURFACING

Vicinity of Waikani Bridge to Kapaula Bridge

Project No. 360B-01-12M

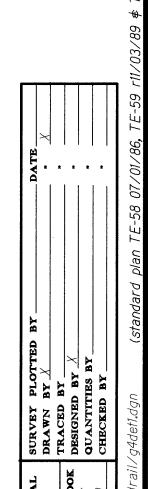
Scale: NTS

Joint Cooperative Committee.

Date: December, 2011

SHEET No. 5 OF 6 SHEETS

2



3'-8" (Max.)

Elevation

STEEL POST GUARDRAIL

WITH RUBRAIL

