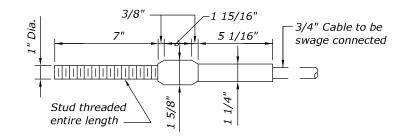
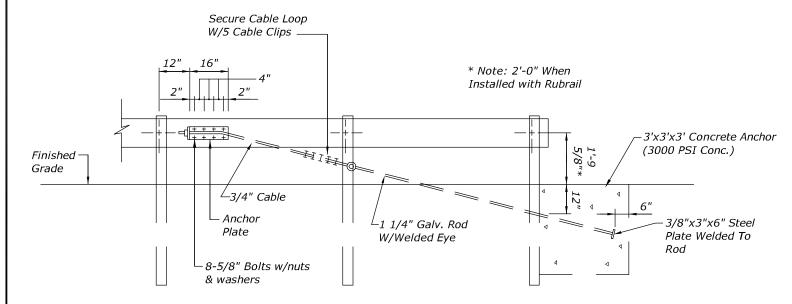


ANCHOR PLATE DETAILS

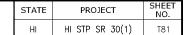


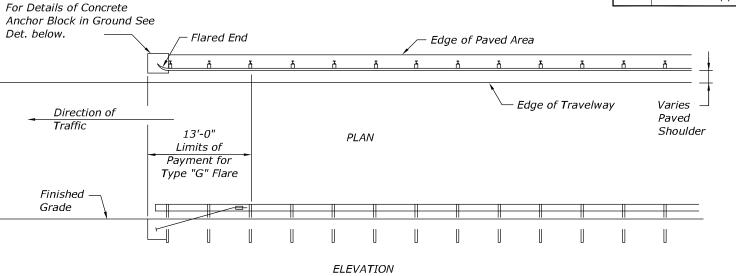
STANDARD SWAGED FITTING AND STUD



ANCHOR BLOCK DETAIL

1. Concrete, grouted rubble pavement, excavation, anchor rod and miscellaneous appurtenances necessary to anchor the guardrail ends shall be incidental to metal guardrail.





TYPE "G" FLARE END TERMINAL

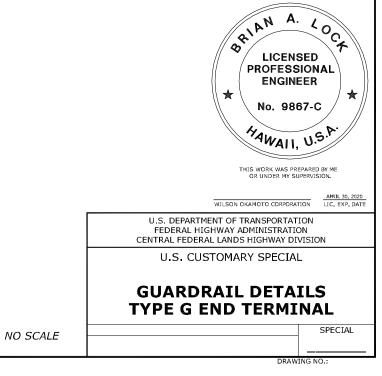
NOTES:

Type "G" Modified End Terminal is a site specific end terminal with a taper and radial termini. A site specific detailed drawing is required for all Type "G" Modified End Terminals and must receive the Engineer's approval.

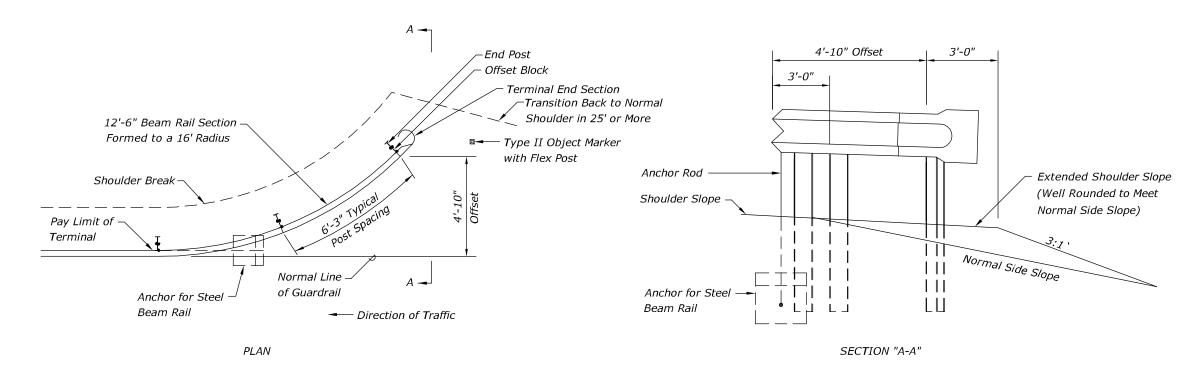
The taper (flare rate) of the guardrail shall follow the latest edition of AASHTO'S Roadside Design Guide (currently, Table 5.6 - Suggested Flare Rate for Barrier Design, page 5-21, 2011).

The radius of the radial termini is an Engineer's judgment based on the site evaluation. The Engineer shall consider safety (minimize the spearing & blunt end situation); degree and potential seriousness of the hazard; bicycle and pedestrian accessibility; maintenance equipment accessibility; Right-of-Way availability; the smallest radii the metal w-beam/thrie-beam railing can be constructed (check with supplier/contractor); posted speed limit; angle of vehicle impact; and aesthetics when designing the Type "G" Modified End Terminal.

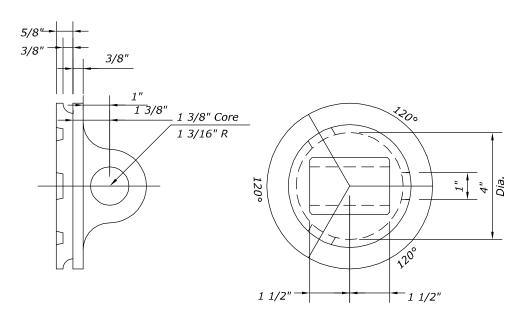
During construction, the Contractor shall layout the proposed Type "G" Modified End Terminal and receive approval from the Construction Engineer prior to installation.



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APPROACH END DETAIL (Approved for use where V < 45 MPH)



ANCHOR ROD CONNECTOR
(Malleable Iron Casting or Equal)



WILSON OKAMOTO CORPORATION LIC. EXP. DATE

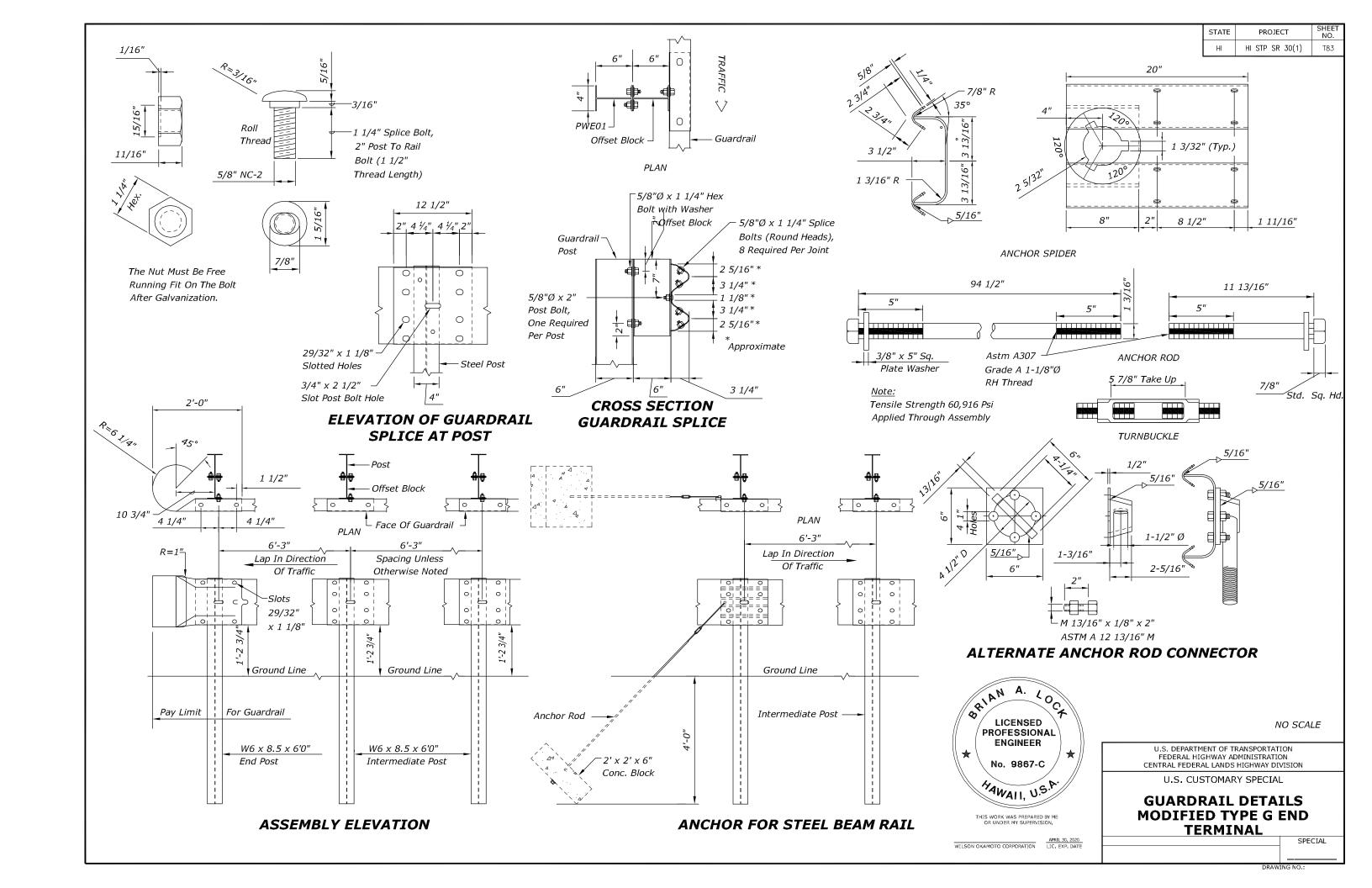
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION

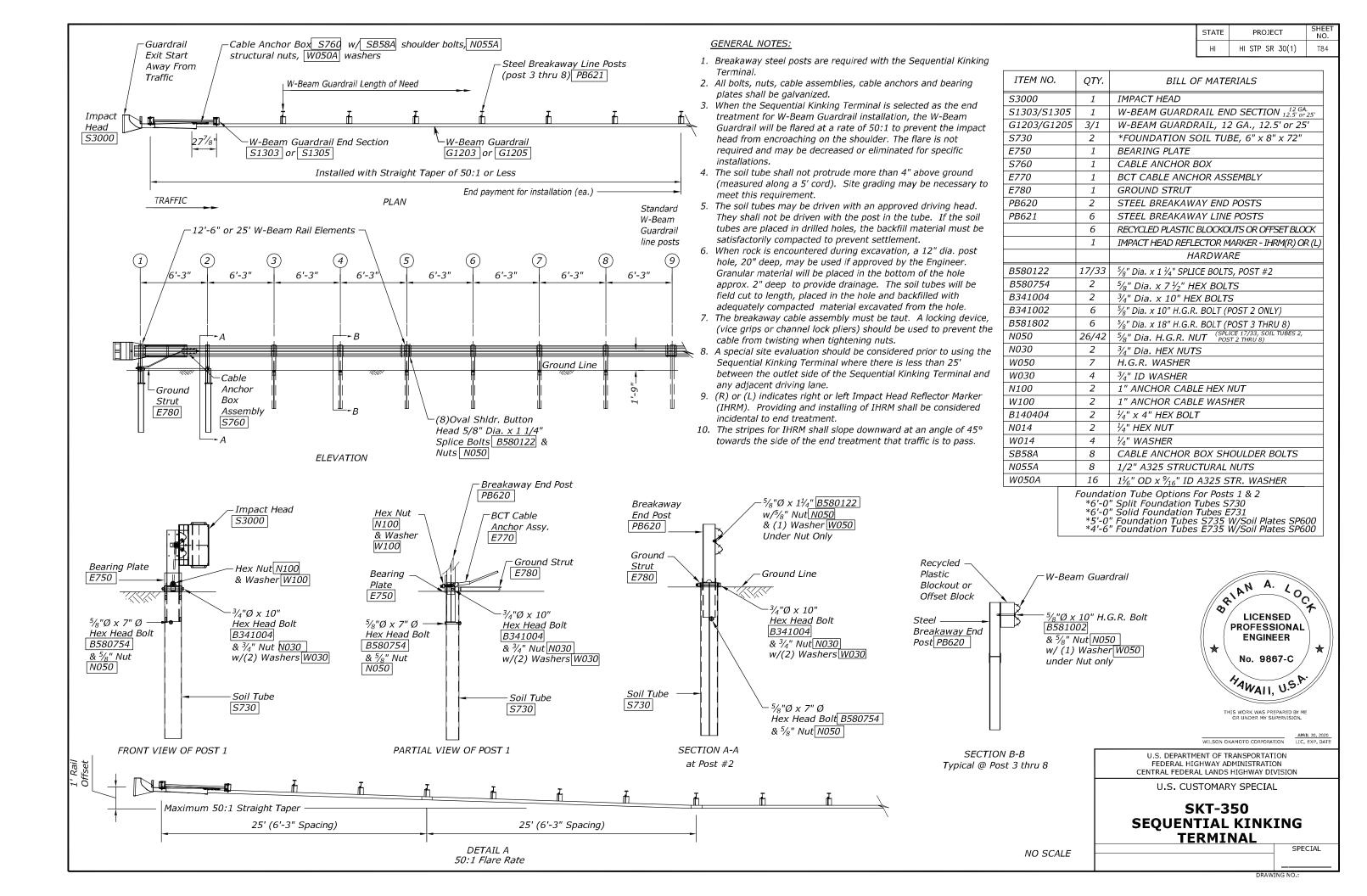
U.S. CUSTOMARY SPECIAL

GUARDRAIL DETAILS MODIFIED TYPE G END TERMINAL

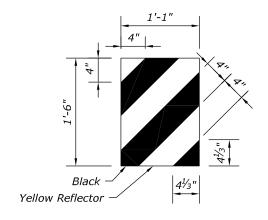
NO SCALE

RAWING NO

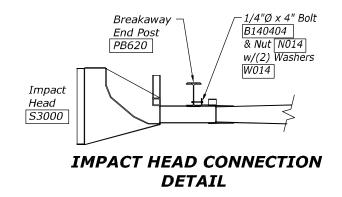




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IHRM(R) IMPACT HEAD REFLECTOR MARKER INSERT **DETAIL**





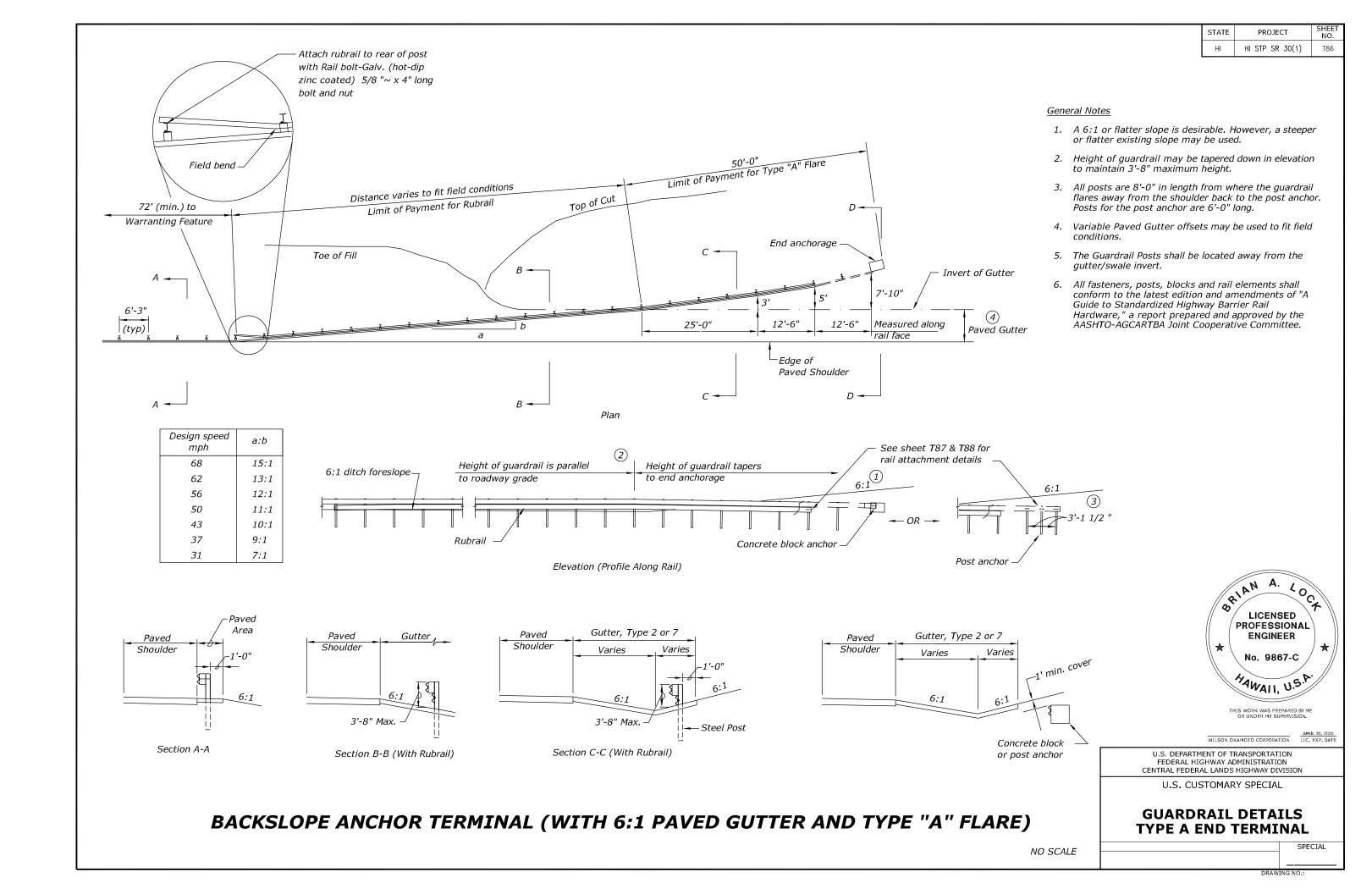
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION

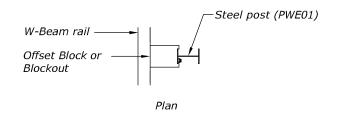
U.S. CUSTOMARY SPECIAL

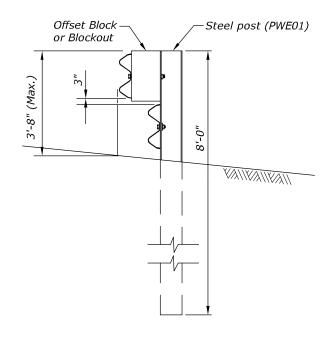
SKT-350 **SEQUENTIAL KINKING TERMINAL**

NO SCALE



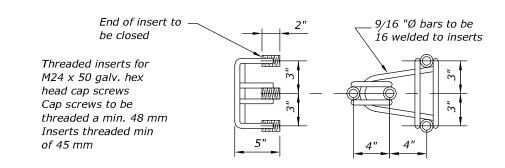
STATE	PROJECT	SHEET NO.
HI	HI STP SR 30(1)	T87



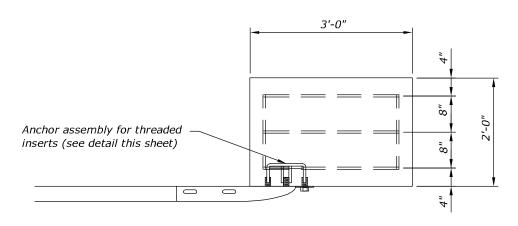


STEEL POST GUARDRAIL
WITH RUBRAIL

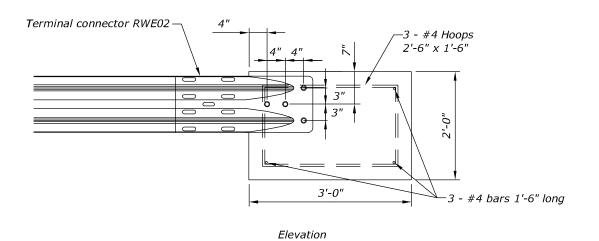
Elevation



ANCHOR ASSEMBLY CONCRETE BLOCK ANCHOR



Plan

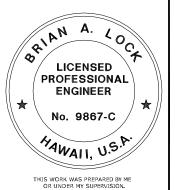


CONCRETE BLOCK ANCHOR (2' x 2' x 3')

BACKSLOPE ANCHOR TERMINAL END ANCHORAGE DETAILS TYPE "A" FLARE

<u>Note:</u>

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.

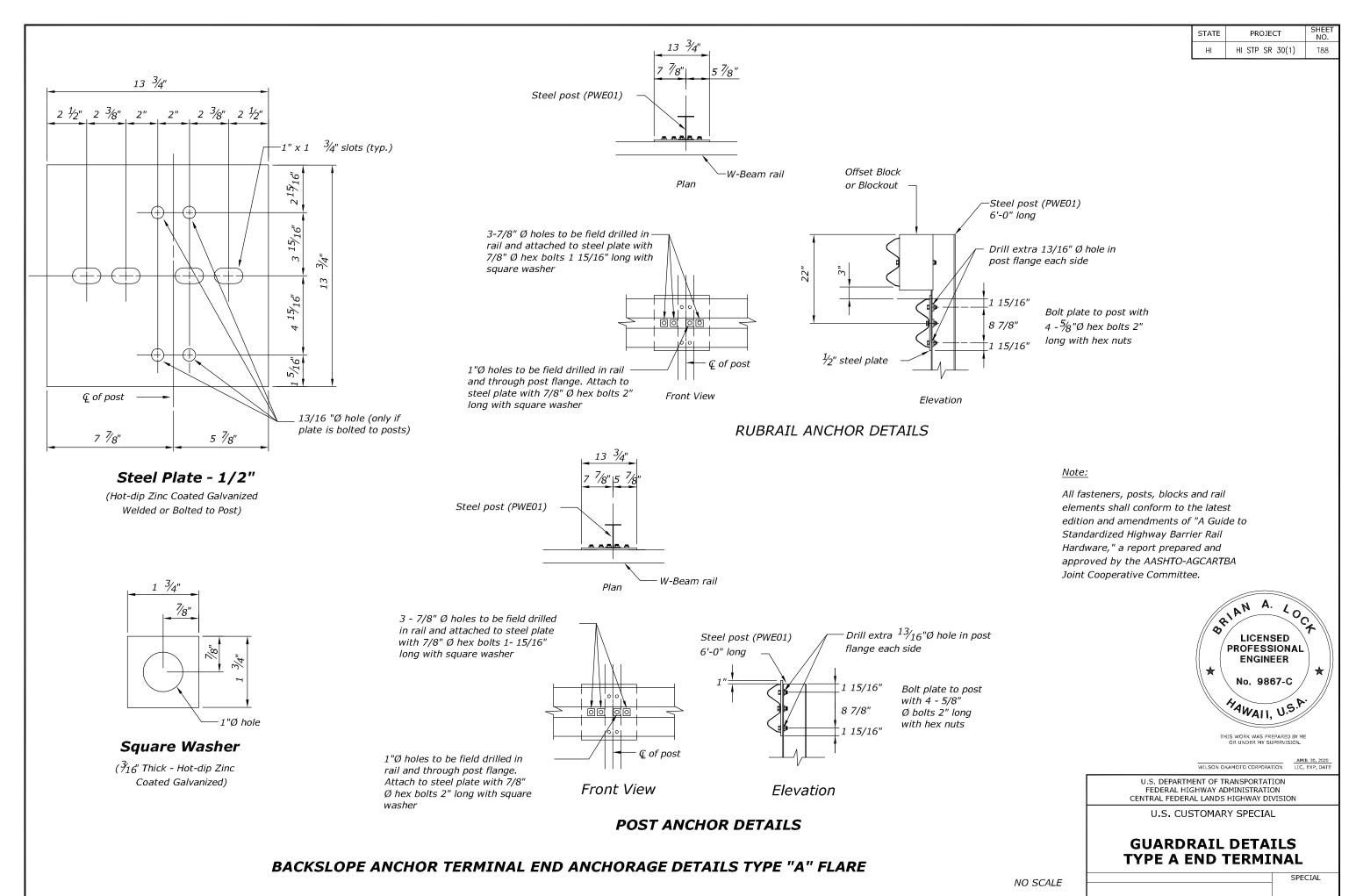


WILSON OKAMOTO CORPORATION LIC. EXP. DATE

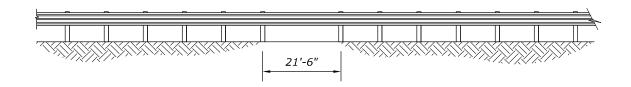
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION

GUARDRAIL DETAILS
TYPE A END TERMINAL

NO SCALE

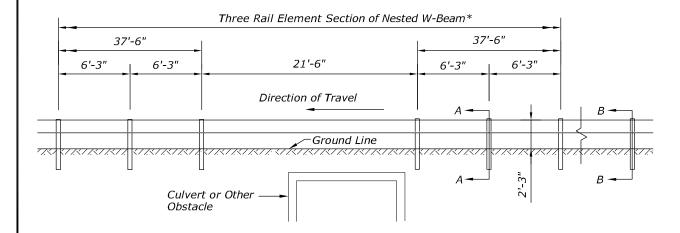


DRAWING NO



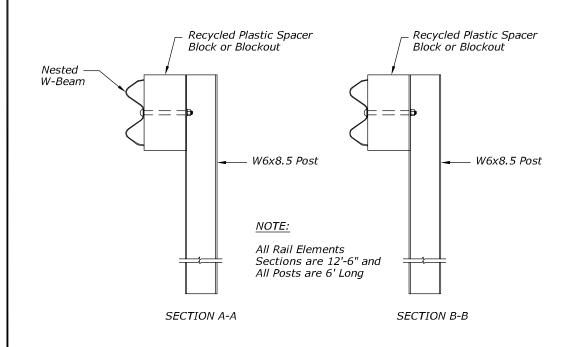
LONG SPAN OVER CULVERT

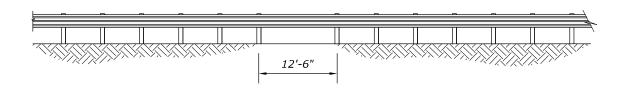
*Note: All Nested W-Beam splices points shall be staggered.



NESTED LONG SPAN STRONG POST W-BEAM GUARDRAIL OVER 21'-6" CULVERT

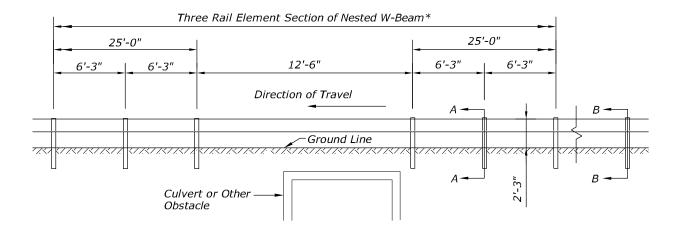
(MAXIMUM DYNAMIC DEFLECTION OF 3.2 FT.)





LONG SPAN OVER CULVERT

*Note: All Nested W-Beam splices points shall be staggered.



NESTED LONG SPAN STRONG POST W-BEAM GUARDRAIL OVER 12'-6" CULVERT

(MAXIMUM DYNAMIC DEFLECTION OF 3.1 FT.)



WILSON OKAMOTO CORPORATION APRIL 30, 2020
LIC. EXP. DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

GUARDRAIL DETAILS LONG SPAN

NO SCALE

____ SFLCI

RAWING NO.: