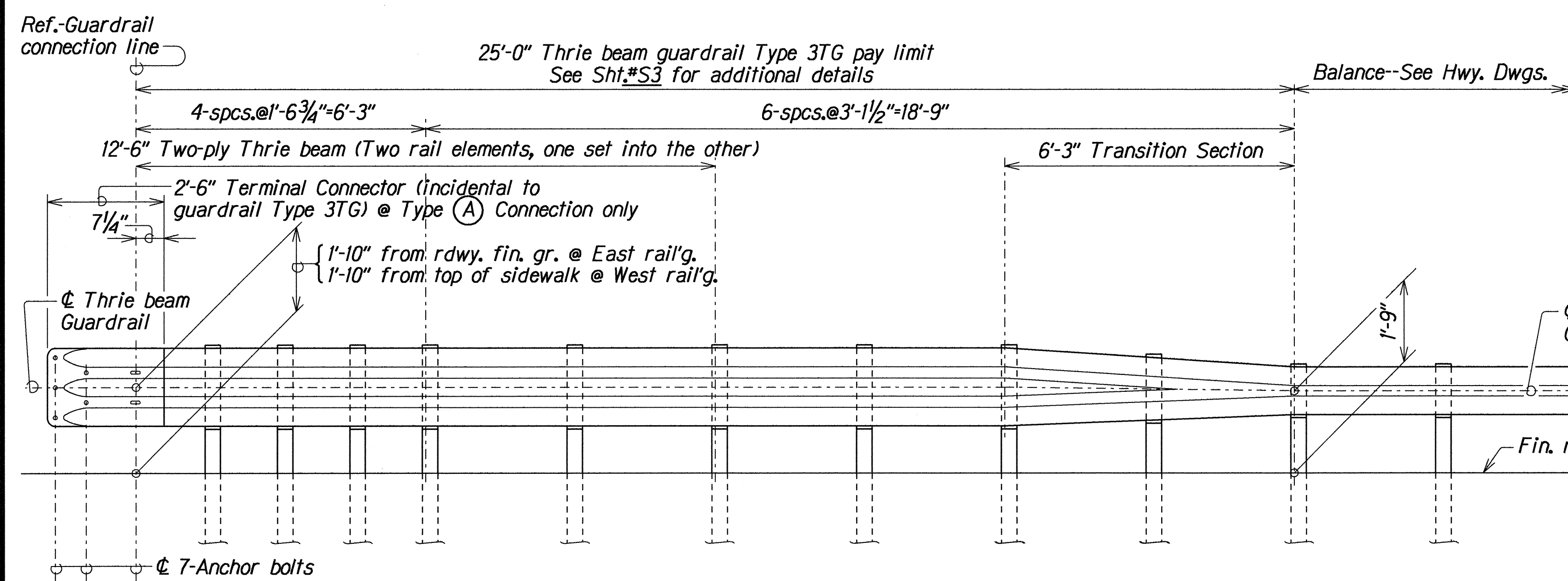
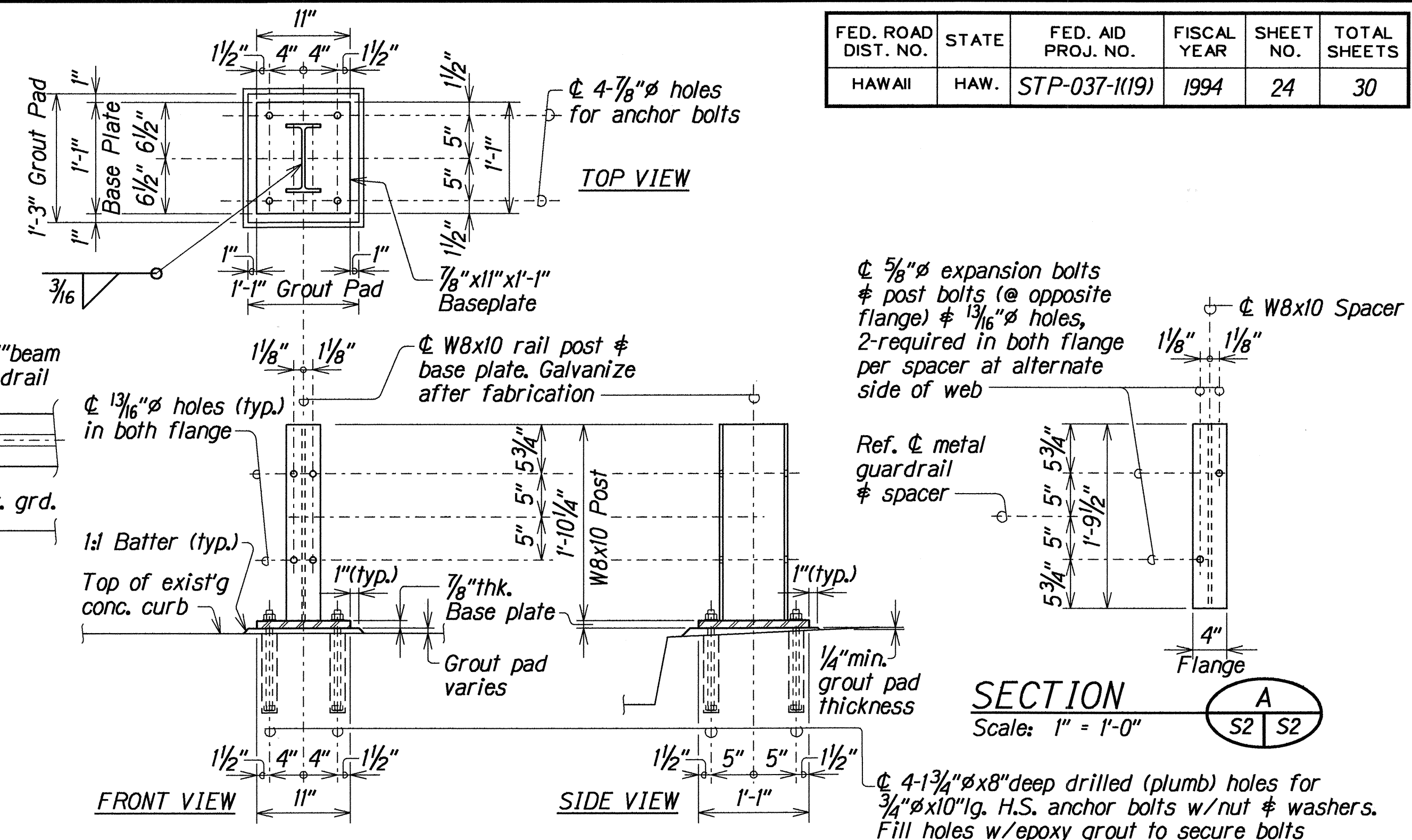


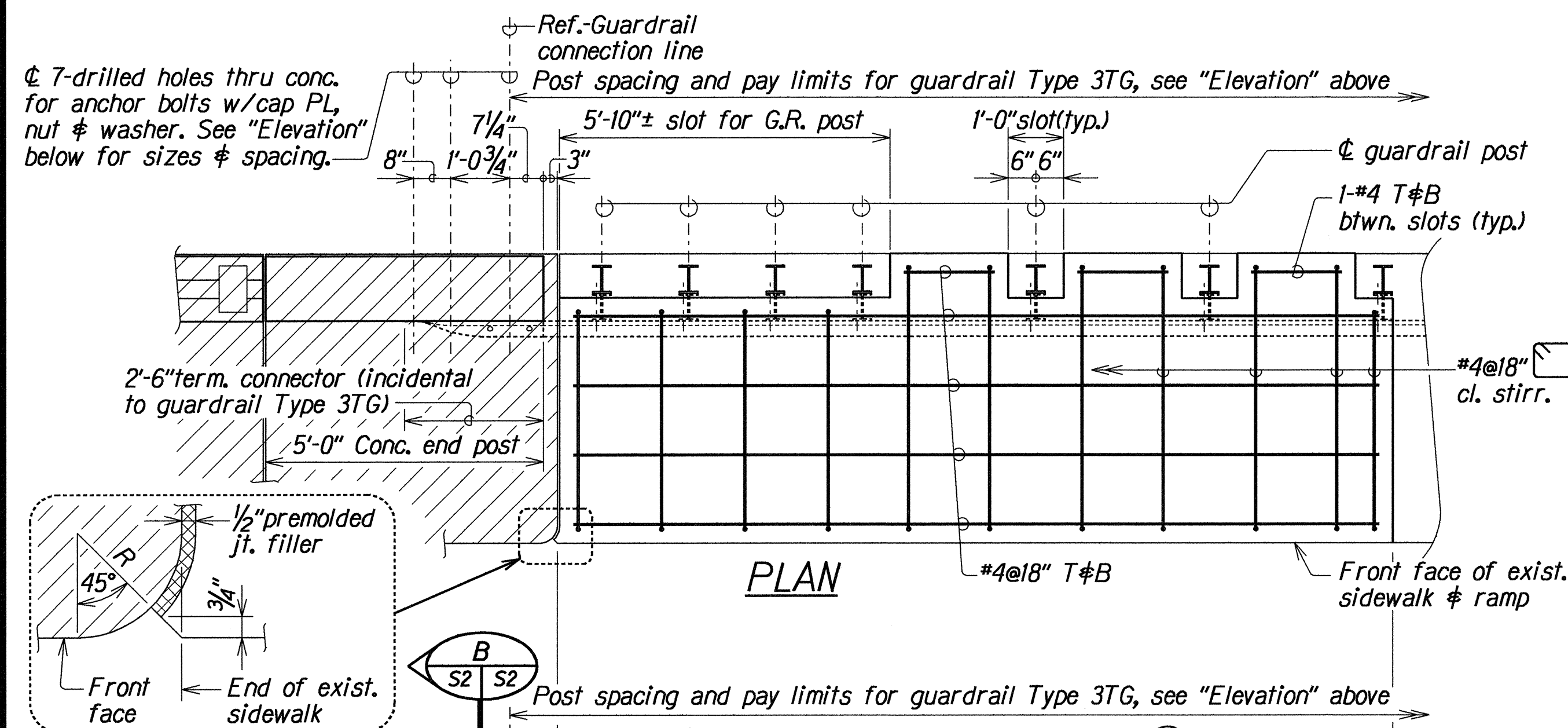
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-1(19)	1994	24	30



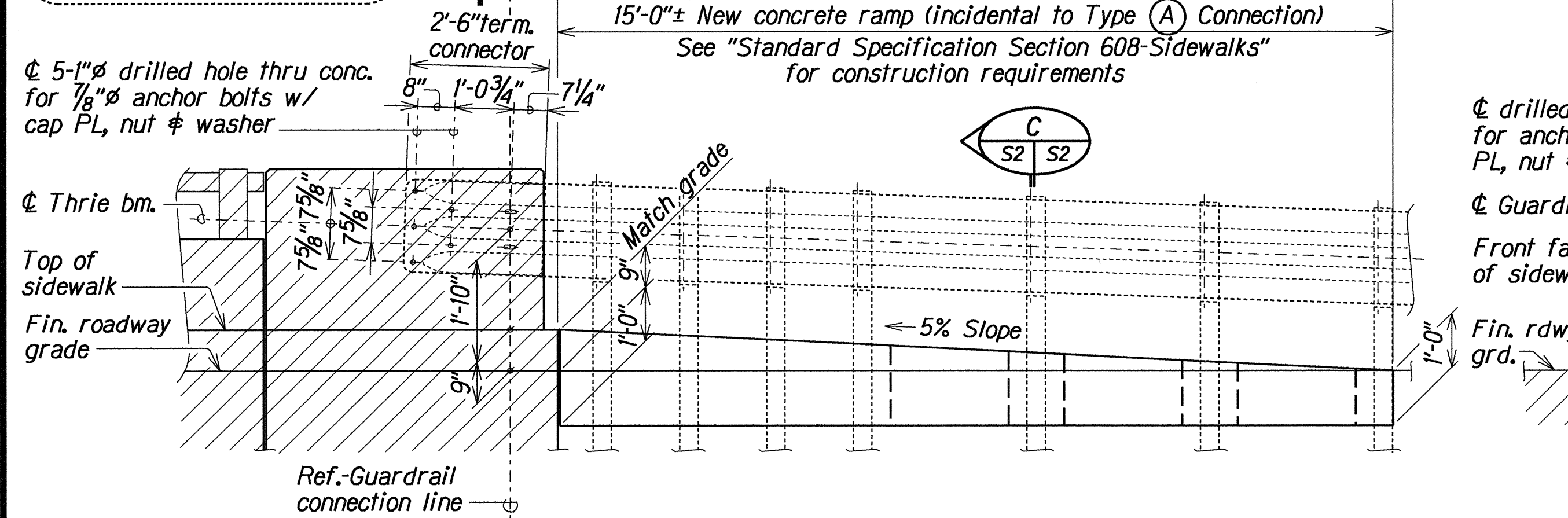
ELEVATION--GUARDRAIL TYPE 3TG POST SPACING DETAIL
Scale: 1/2" = 1'-0"



TYPICAL W8x10 RAIL POST ON BASE PLATE DETAIL
Scale: 1" = 1'-0"

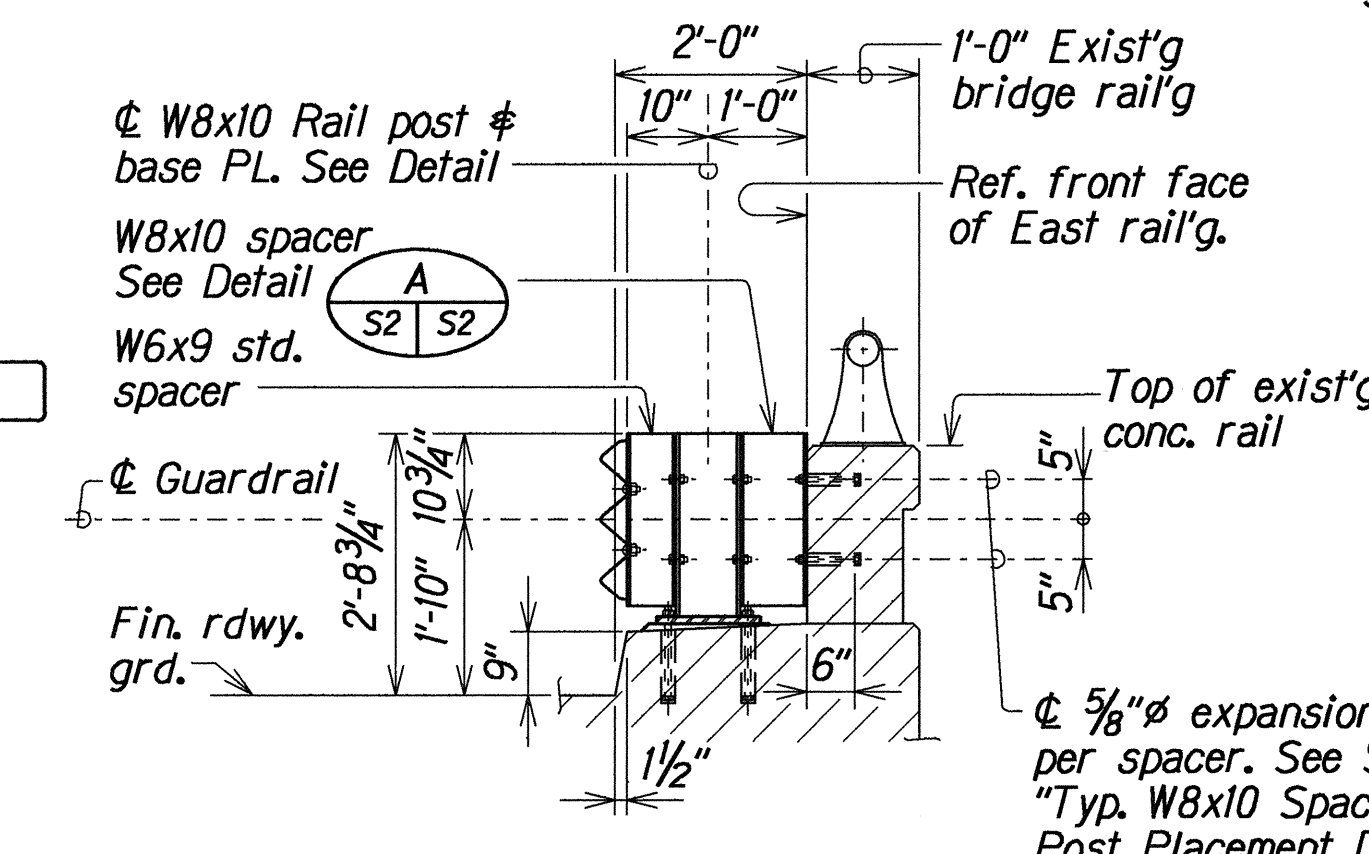


PLAN

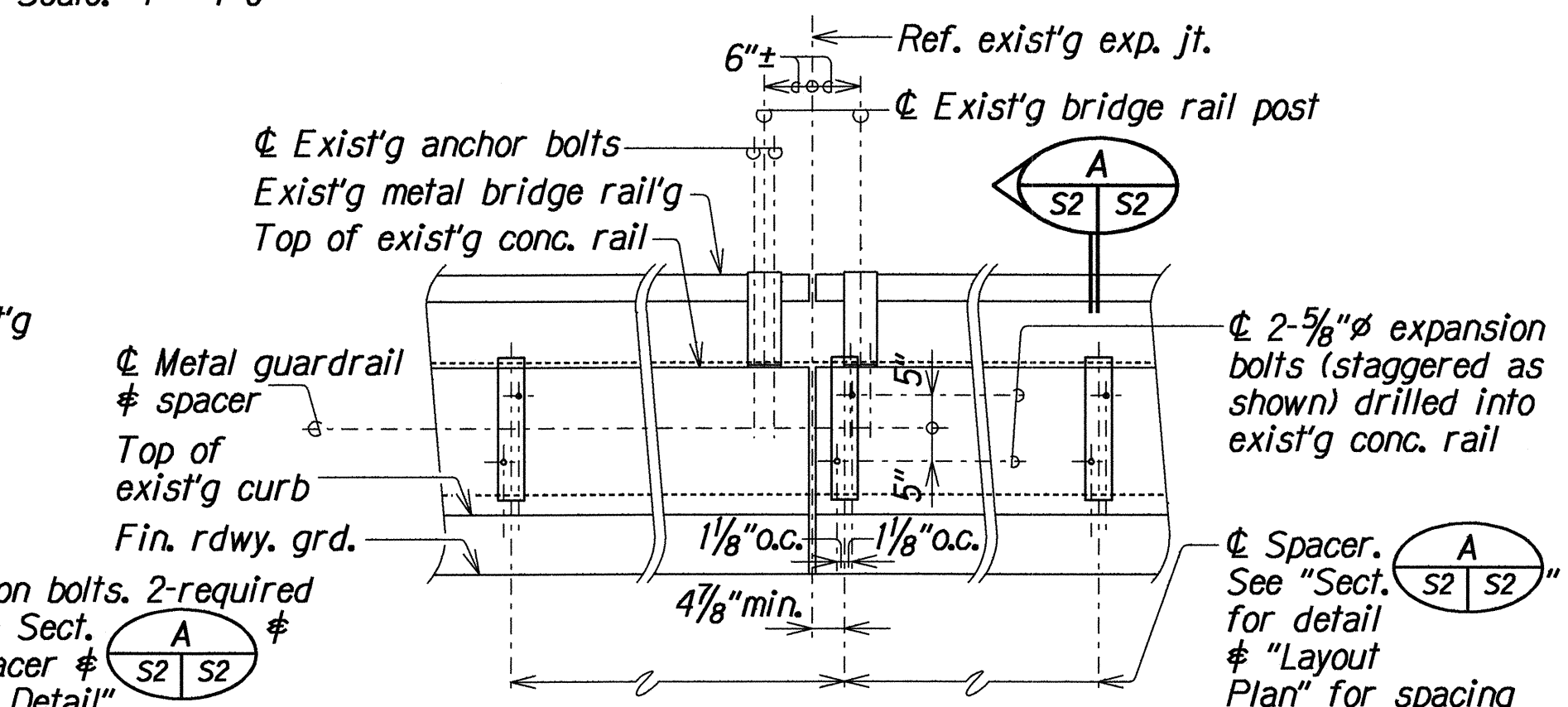


ELEVATION

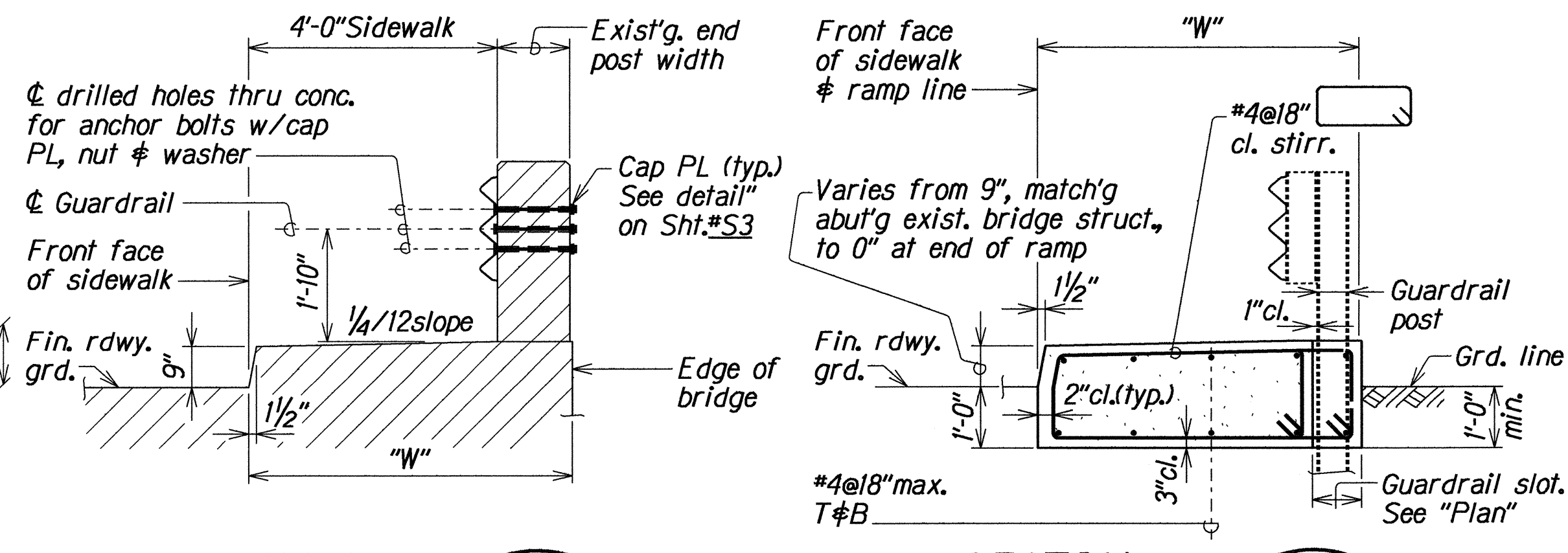
TYPE (A) CONNECTION DETAIL
Scale: 1/2" = 1'-0"



GUARDRAIL TYPE 3TS SECTION
Scale: 1/2" = 1'-0"



TYPICAL W8x10 SPACER AND POST PLACEMENT DETAIL
Scale: 1/2" = 1'-0"



SECTION C

Note:
The W8x10 spacer location may be altered from medding with the aluminum railing post's anchor bolt.

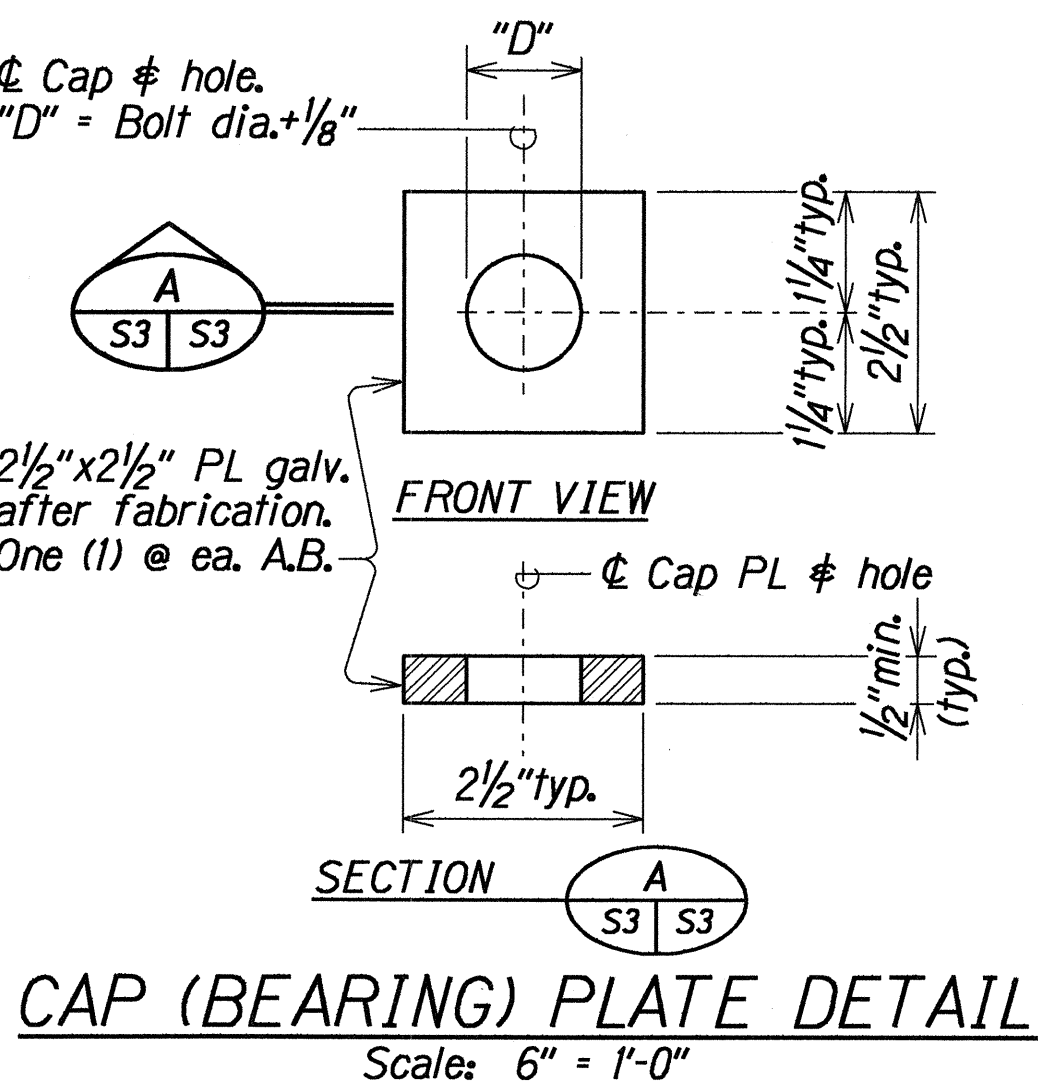
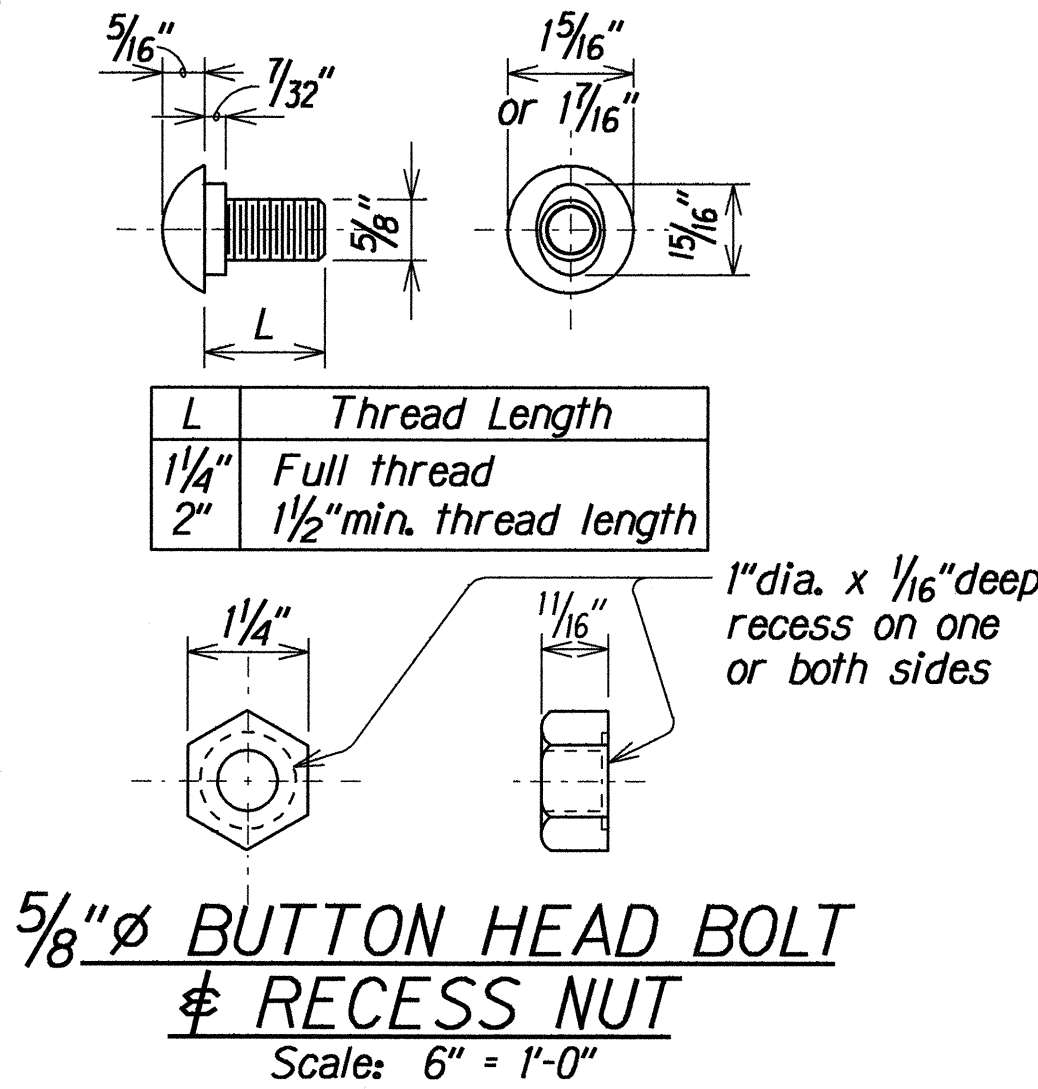
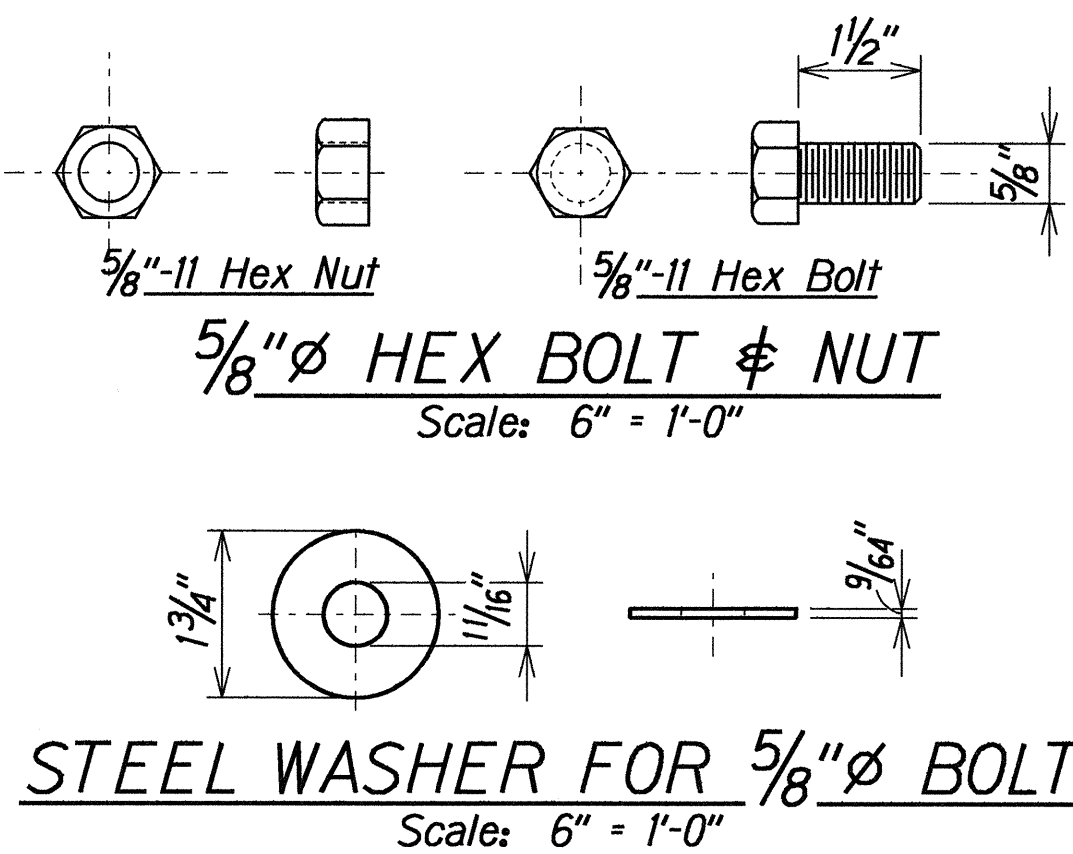
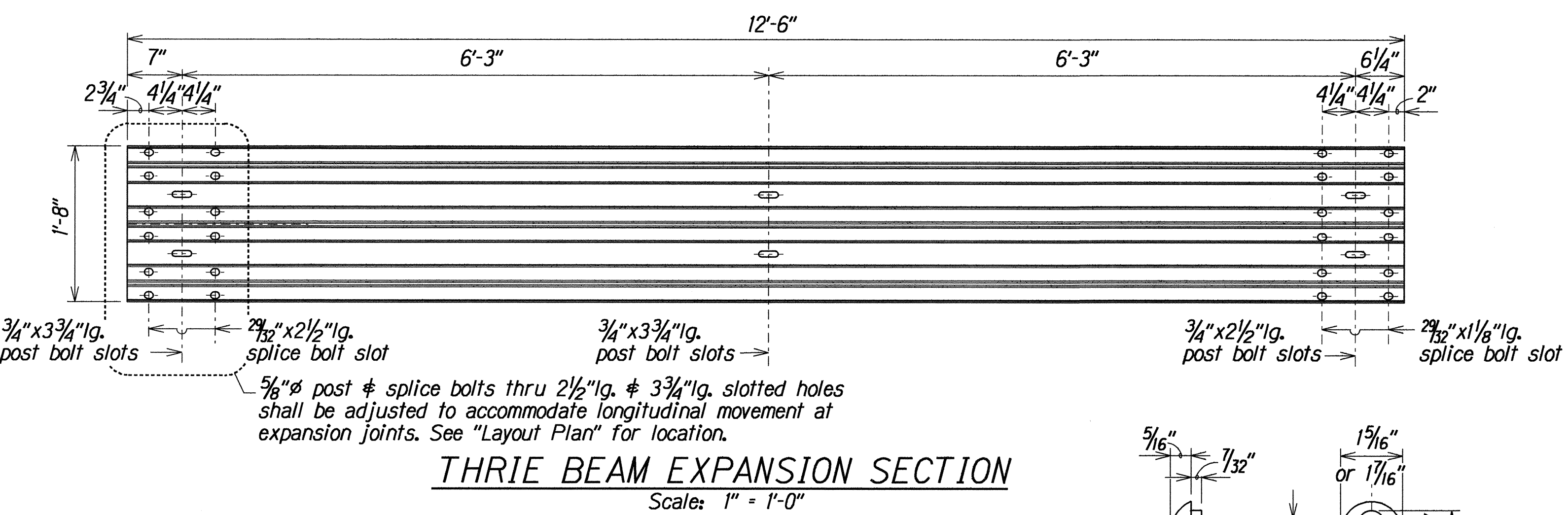
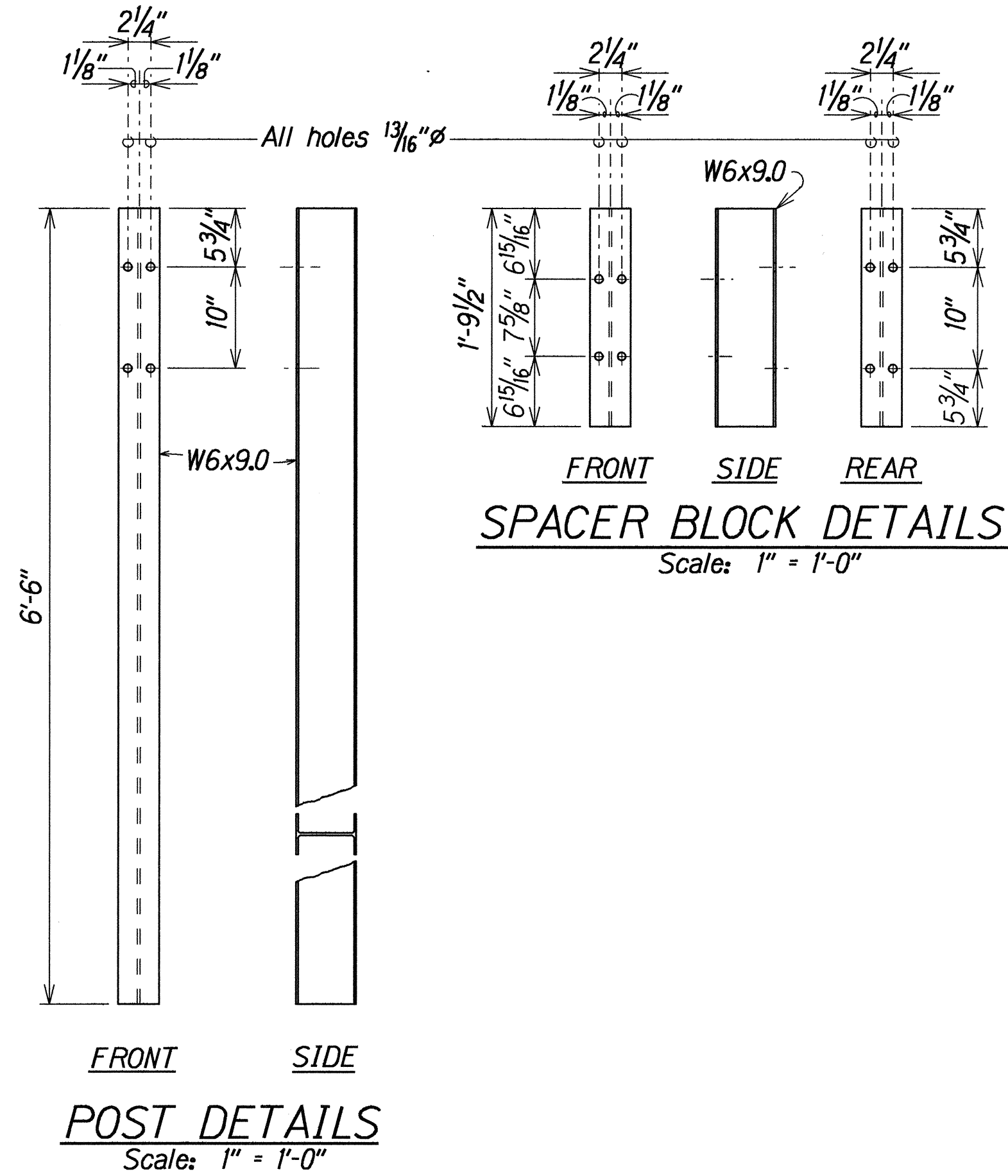
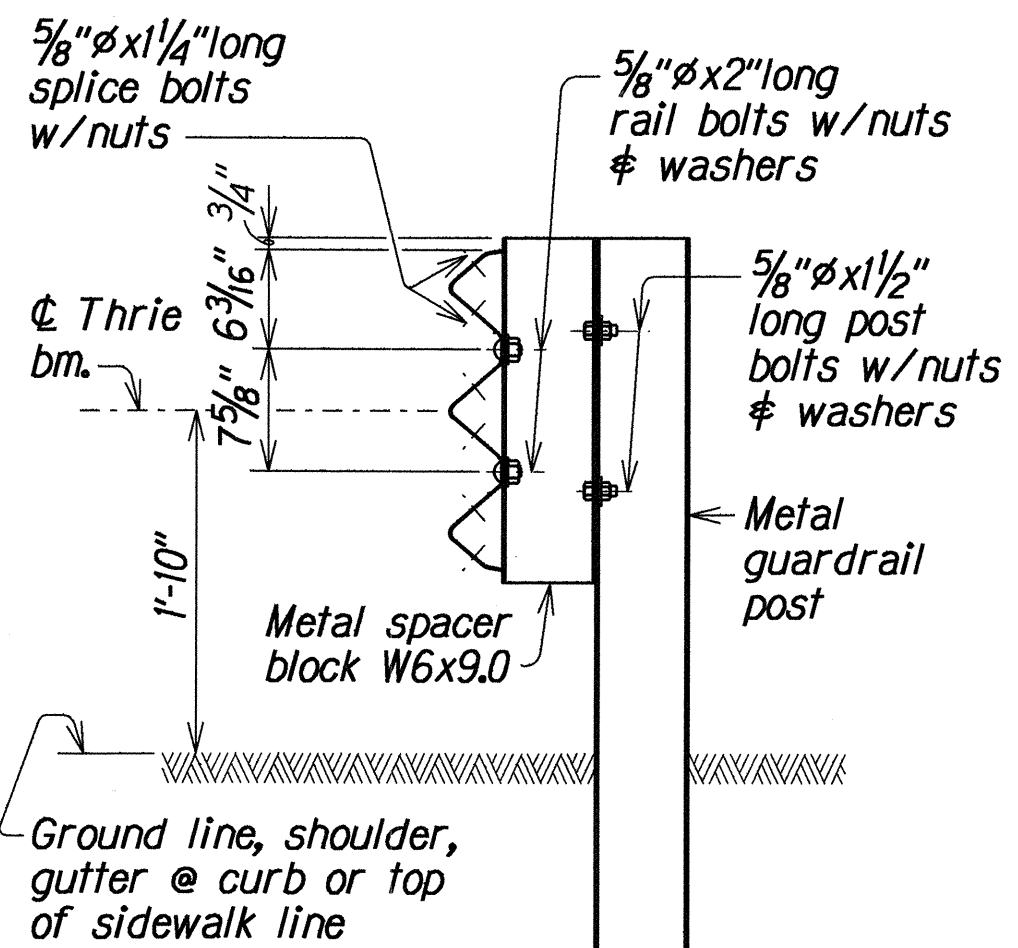
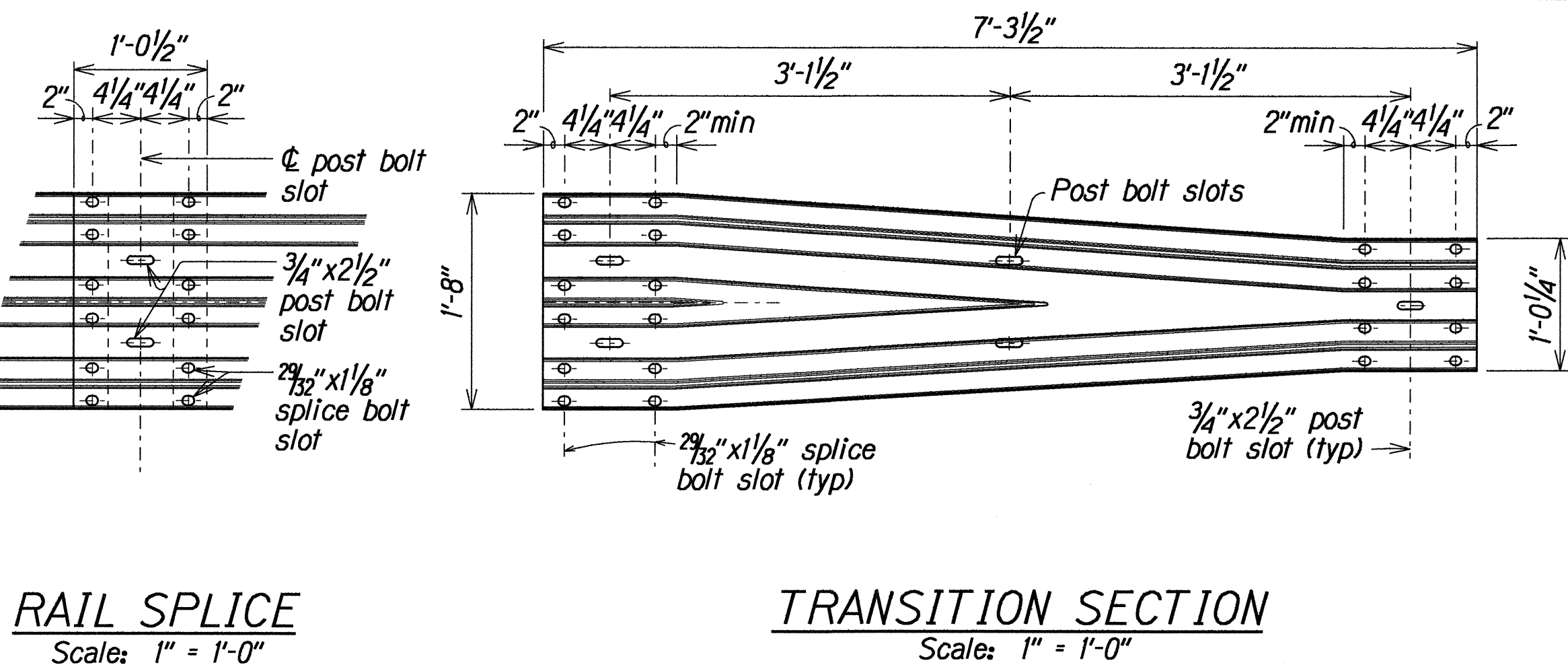
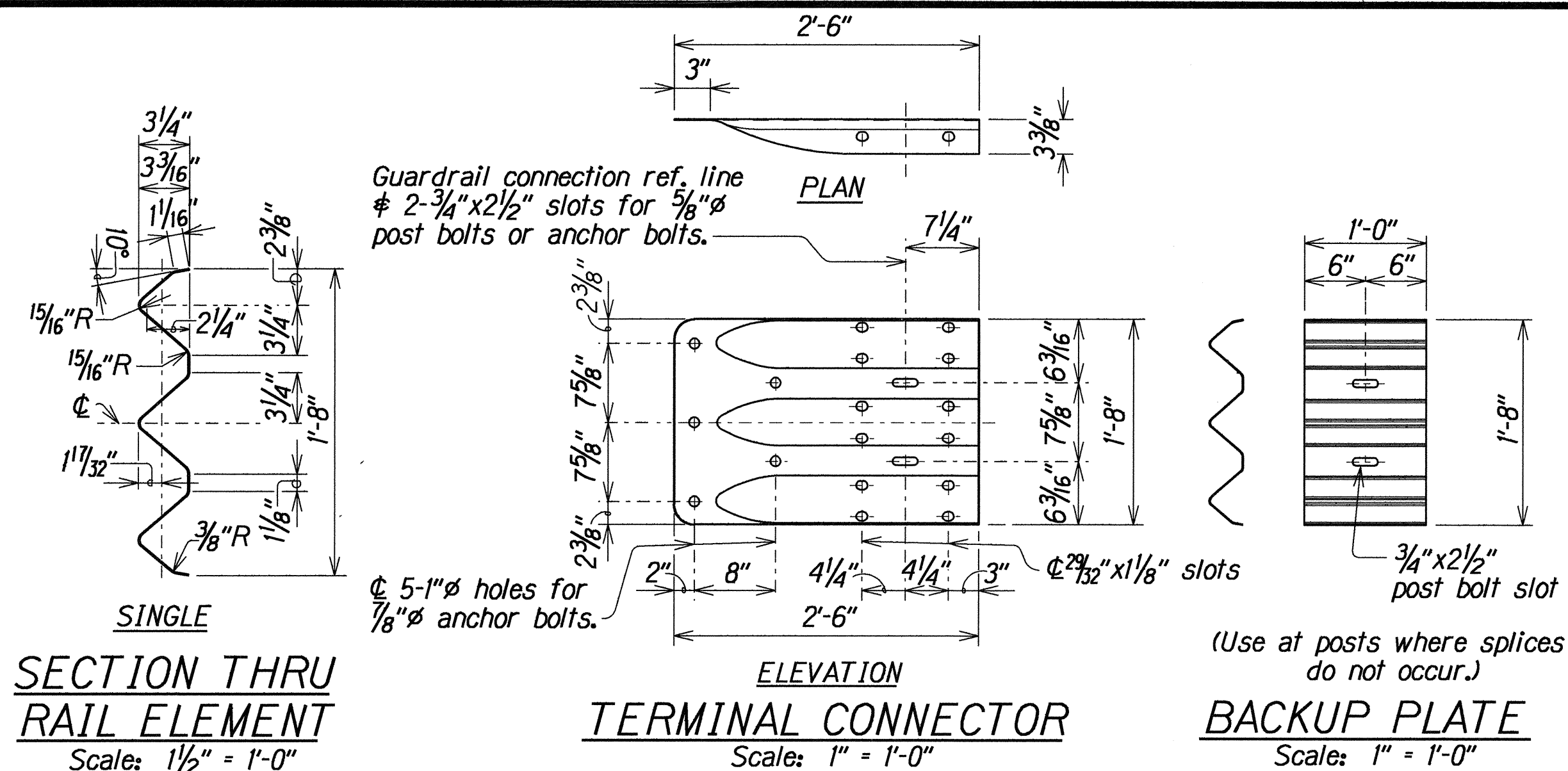
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPE 3TG AND TYPE 3TS THRIE BEAM CONNECTION AND GUARDRAIL POST DETAILS

THRIE BEAM CONNECTION FOR KEAHUAWI BRIDGE AND KALIALINUI BRIDGE
Kula Highway Guardrail and Shoulder Improvement
F.A.P. No. STP-037-1(19)

Scale: As Noted Date: May, 1994

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-1(19)	1994	25	30



NOTES:

- "Terminal Connector" shall be fabricated from 10gauge steel conforming to the requirements of AASHTO M 180.
- All anchor bolts shall be high strength bolts conforming to the requirements of ASTM 325.
- Anchor bolt length shall be such that a snug fit of the elements and full thread engagement plus 1/4" (max) is attained.
- "Terminal Connector" and standard spacer, including all anchor bolts, cap PL, nuts and washers, shall be hot-dip galvanized after fabrication.
- First 25'-0" of guardrail adjoining "Terminal Connector" shall be galvanized steel and supports spaced as shown on the detail drawings. This section of rail shall be placed on tangent to end post or parallel to roadway, unless conditions at site renders it impossible to do so. Flare point to be determined in field.
- Anchor bolts, nuts, cap PL and metal spacer block shall be incidental to metal guardrail, unless noted otherwise.
- Cap PL and tapered box spacer block shall be fabricated from ASTM A36.

TYPE 3 THRIE BEAM GUARDRAIL AND APPURTENANCES DETAILS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPE 3 THRIE BEAM GUARDRAIL AND APPURTENANCES DETAILS
THRIE BEAM CONNECTION FOR
KEAHUAIWI BRIDGE AND KALIALINUI BRIDGE
Kula Highway Guardrail and Shoulder Improvement
F.A.P. No. STP-037-1(19)
Scale: As Noted Date: May, 1994
SHEET No. S3 OF 3 SHEETS