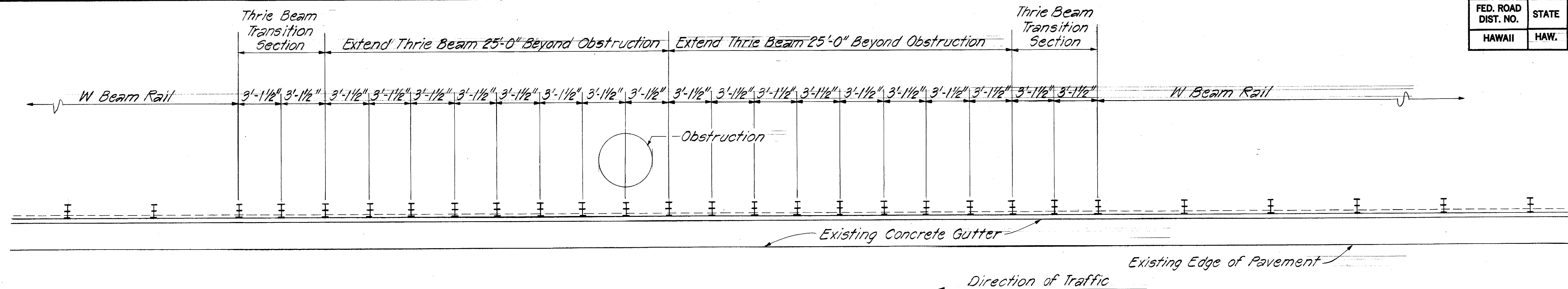
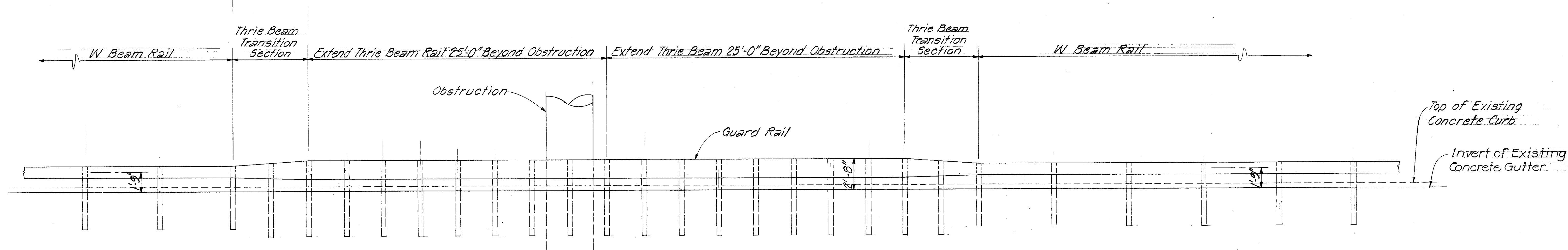


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(192)	1985	13	39



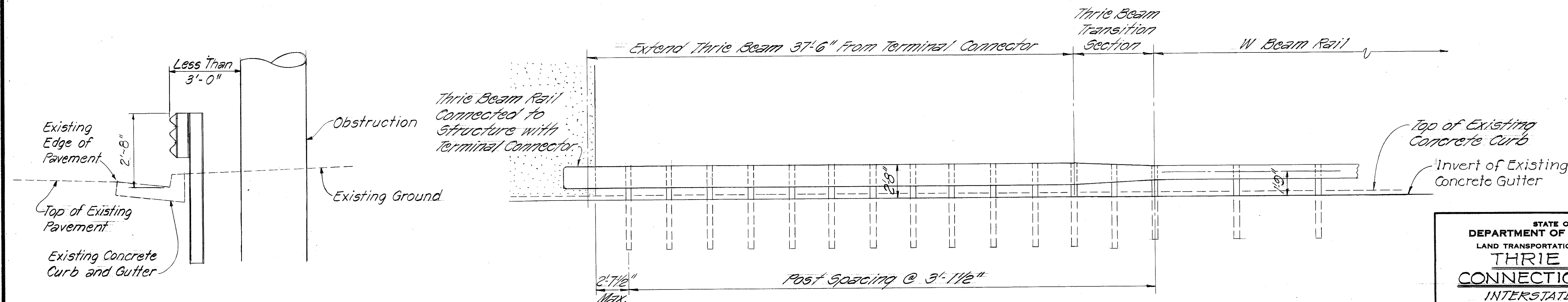
PLAN



ELEVATION

DETAIL OF THRIE BEAM TYPE GUARD RAIL AT OBSTRUCTION

Scale: 1/4" = 1'-0"



TYPICAL SECTION AT OBSTRUCTION

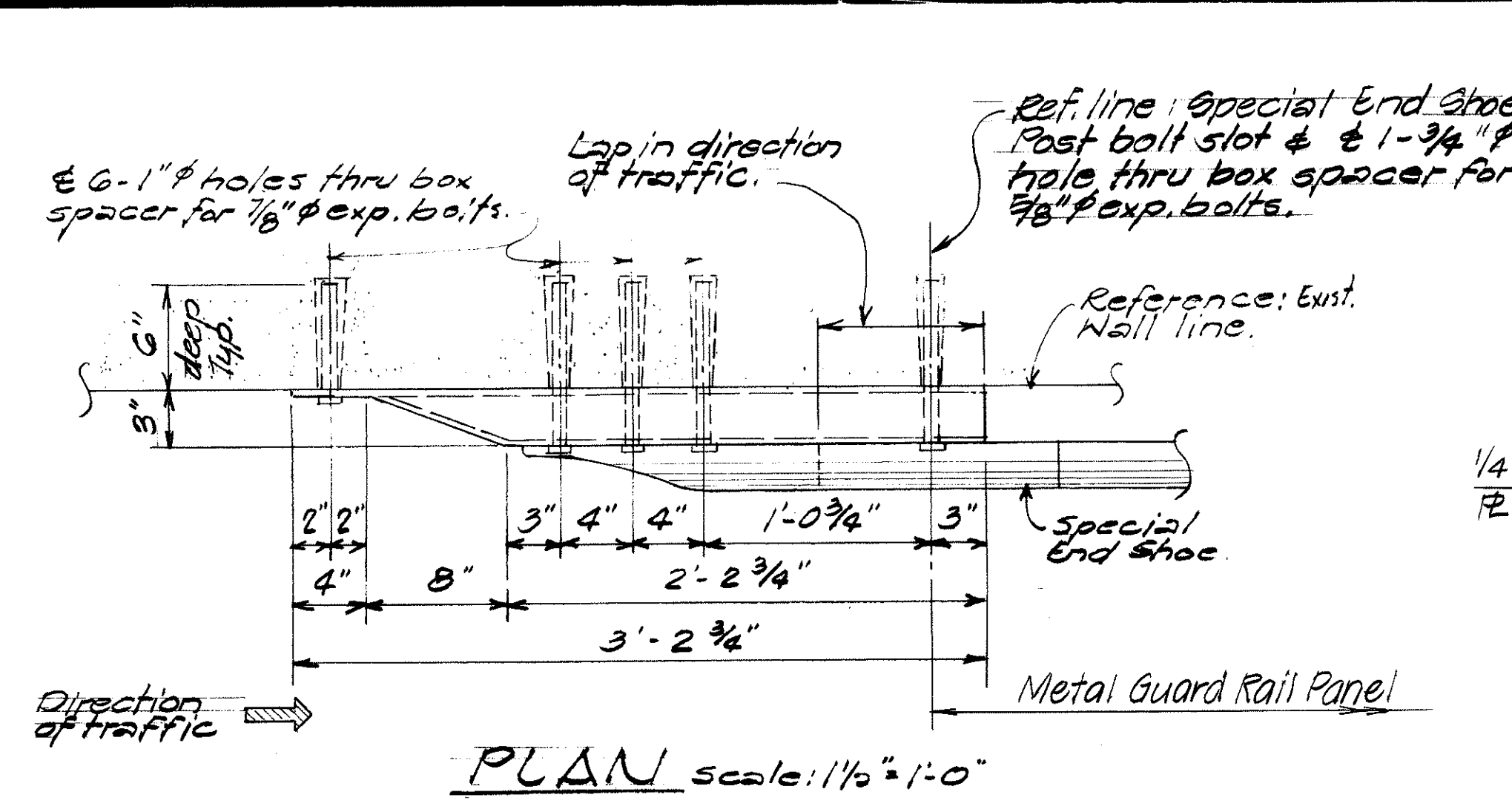
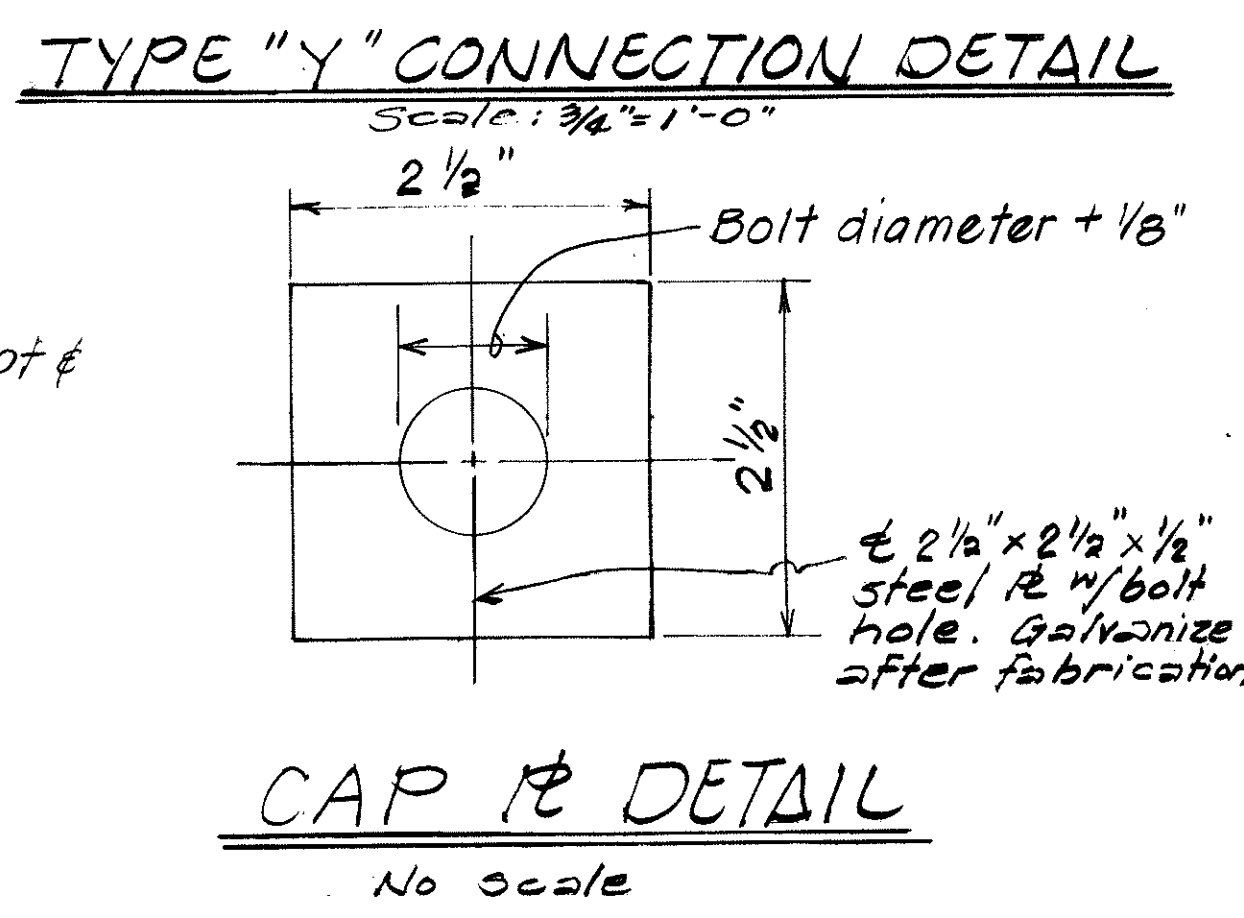
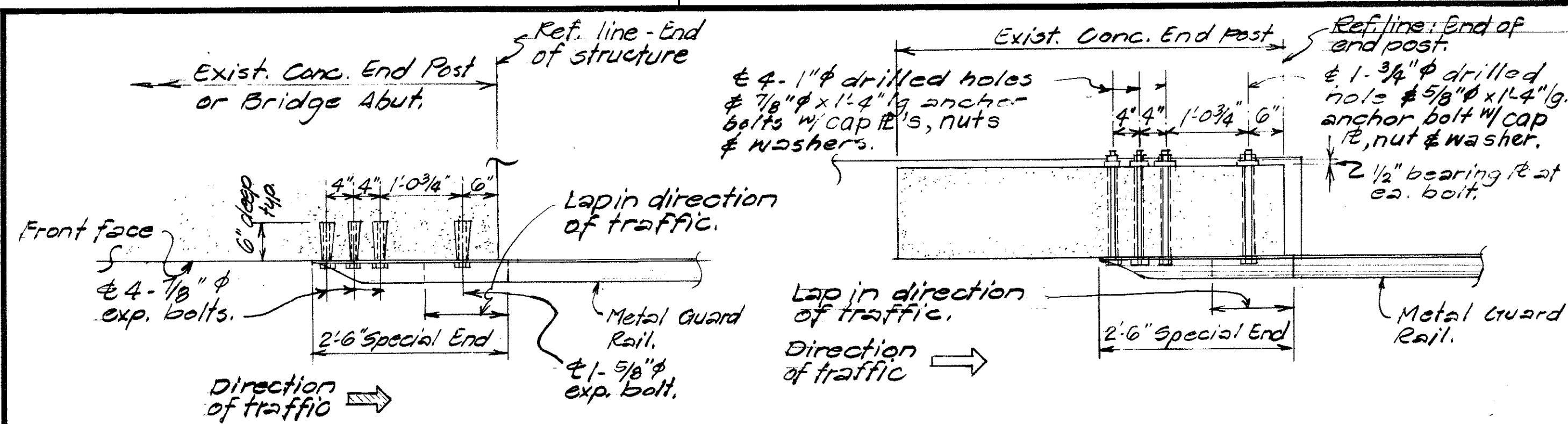
Scale: 1/2" = 1'-0"

THRIE BEAM TYPE GUARD RAIL CONNECTING TO STRUCTURES

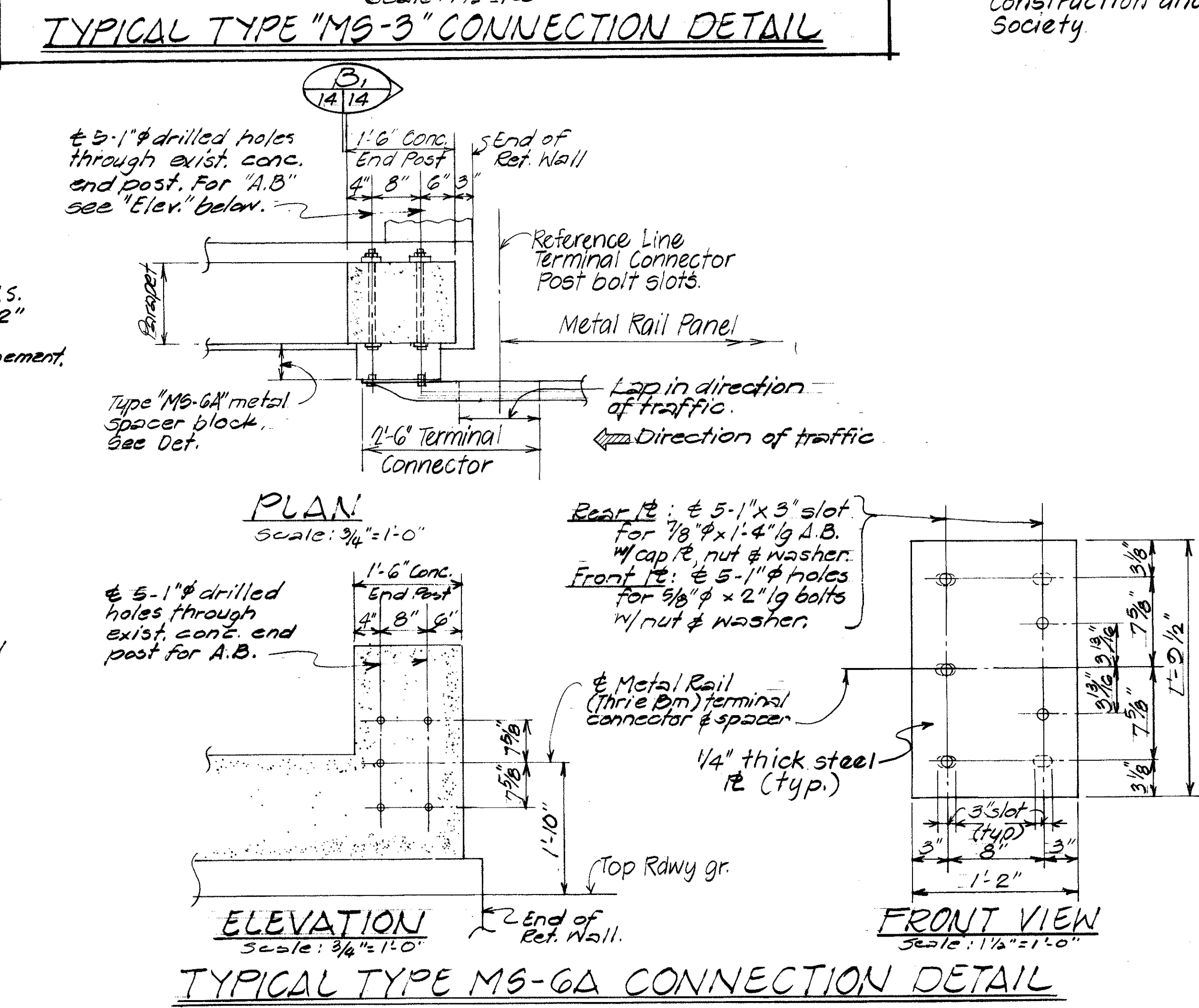
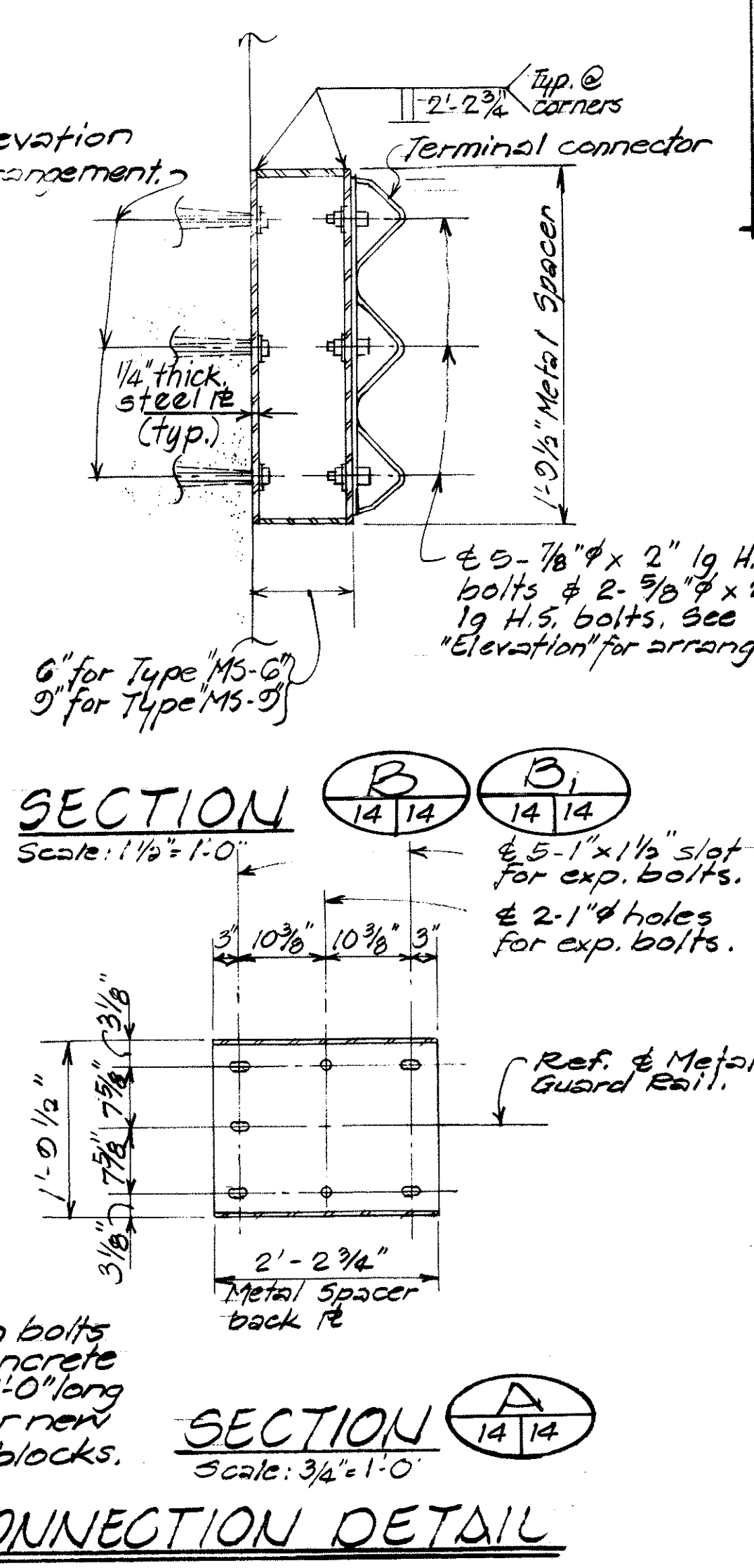
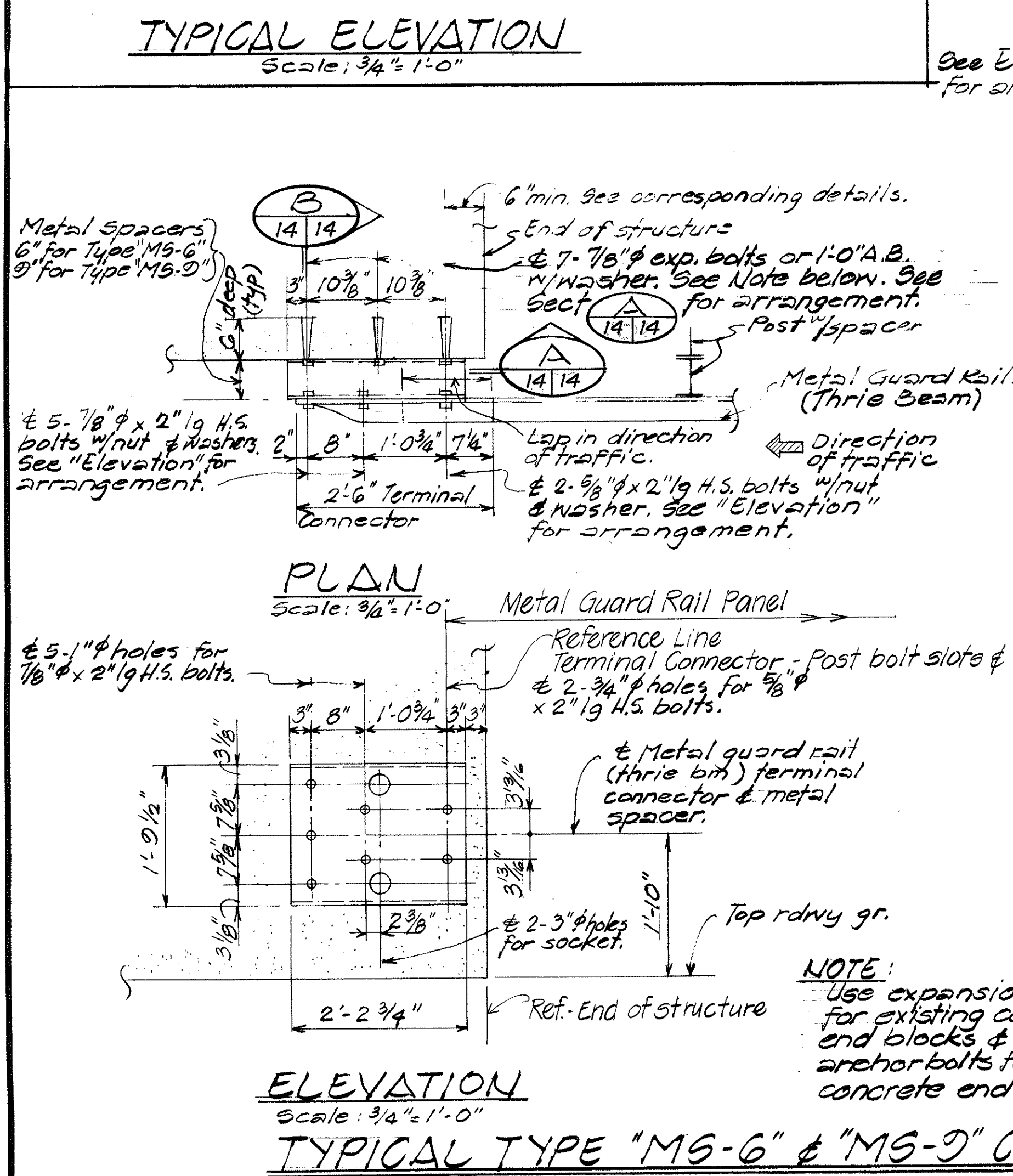
Scale: 1/4" = 1'-0"

STATE OF HAWAII	
DEPARTMENT OF TRANSPORTATION	
LAND TRANSPORTATION FACILITIES DIVISION	
THRIE BEAM	
CONNECTION DETAILS	
INTERSTATE ROUTE H-1	
GUARD RAIL IMPROVEMENTS	
Kalo Lane to Koko Head Avenue	
F.A.I.P. No. IR-HI-1(192)	
Scale: As Shown	Date: July, 1984
SHEET NO. 13	OF 39 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(192)	1985	14	39



- GENERAL NOTES**
1. All metal box spacers, anchor bolts & accessories involved in the connection details shall be incidental to the respective connections and will not be paid for separately.
 2. Anchor bolt length given under bolt head.
 3. Special end shoe, structural steel shapes, plates, metal supports, and all anchor bolts, nuts and washers shall be hot dip galvanized after fabrication.
 4. All welding shall conform to the latest Specifications for Welded Highway and Railway Bridge Design, Construction and Repair of the American Welding Society.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TYPICAL DETAILS
GUARD RAIL CONNECTION DETAILS

INTERSTATE ROUTE 4-1
GUARD RAIL IMPROVEMENTS
Kalo Lane to Koko Head Avenue
F.A.I.P. No. IR-HI-1(192)
Scale: As Shown Date: July, 1984
SHEET NO. OF SHEETS