

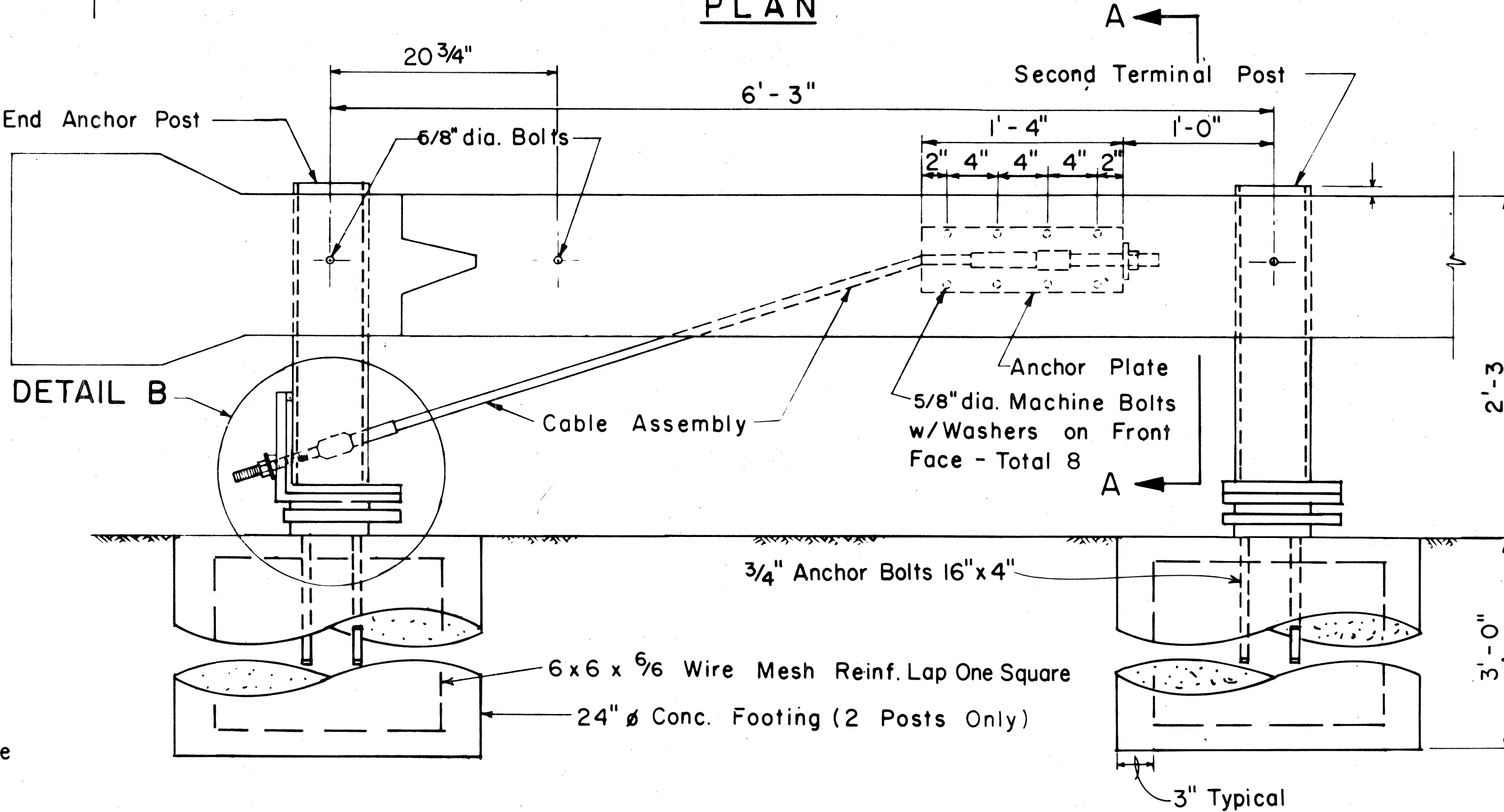
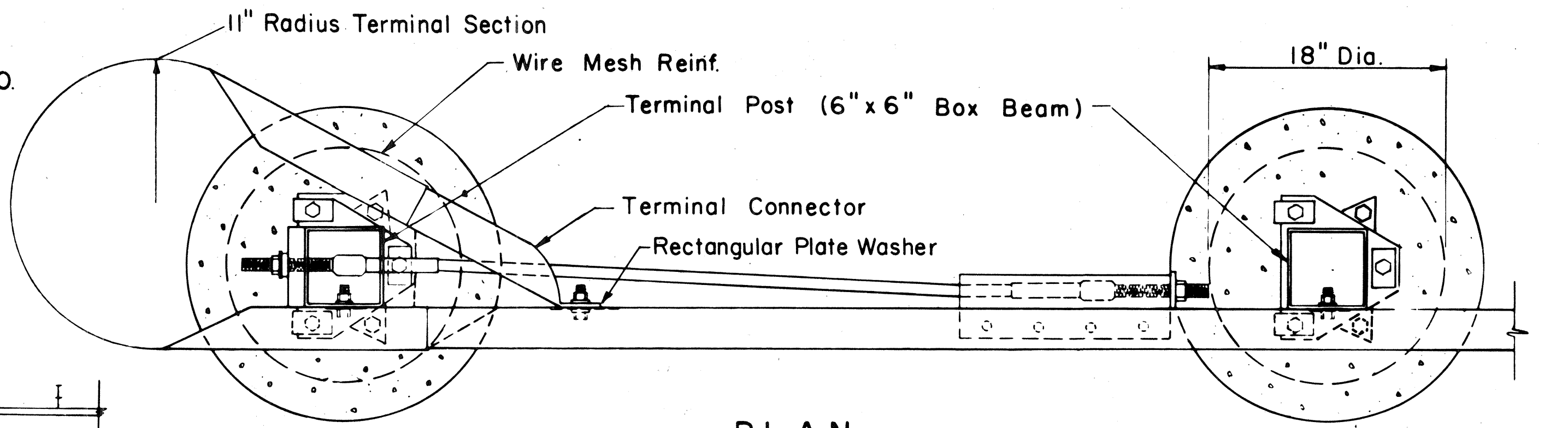
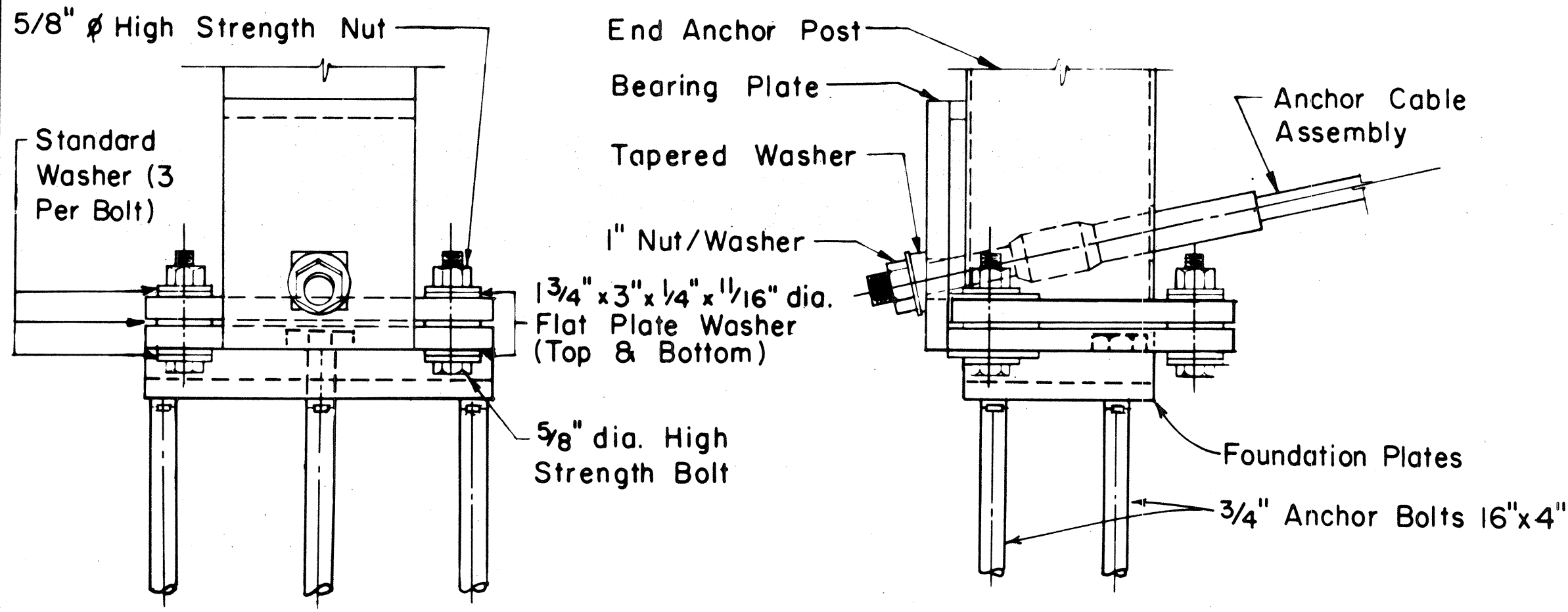
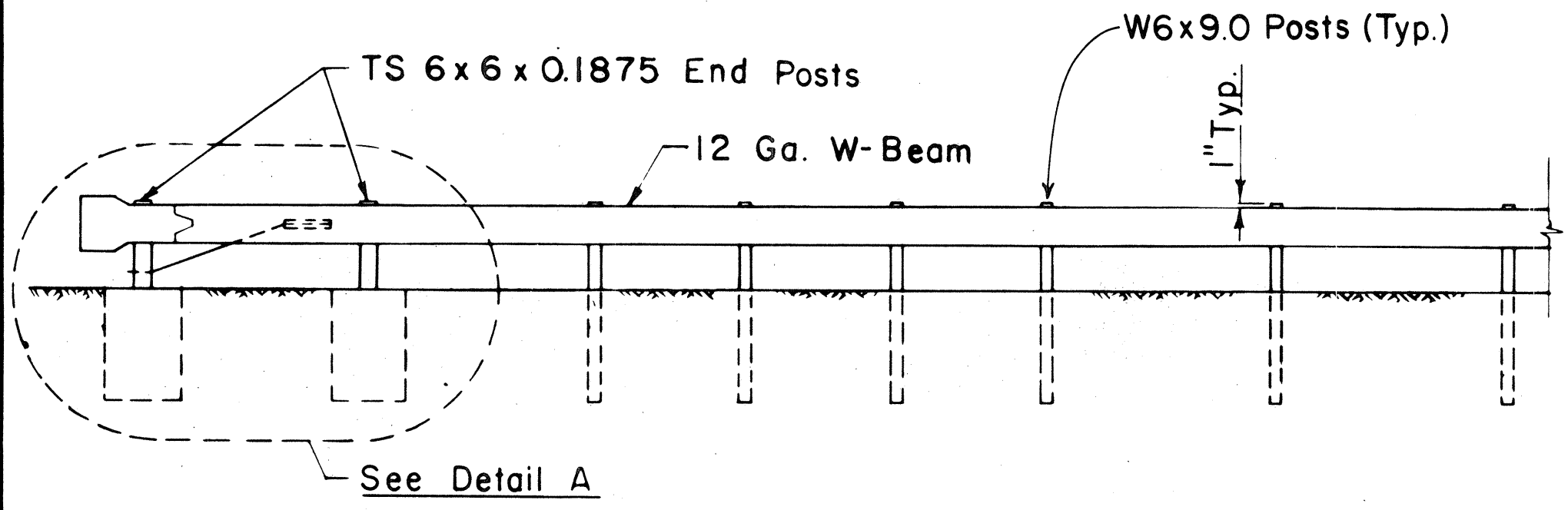
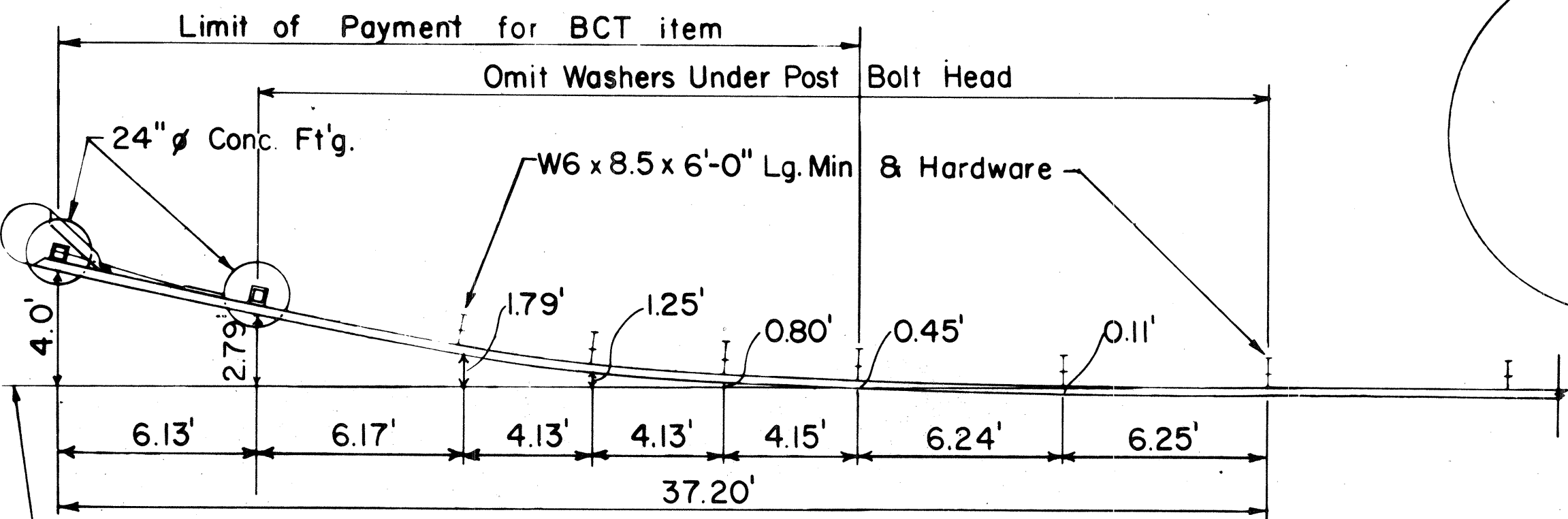
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-0100(28)	1986	31	67

NOTES:

1. For Details of 5/8" Button Head Bolt and Nut, 5/8" Hex Bolt and Nut, and W Beam Terminal Connector, refer to Standard Detail TE-51.
2. Other Anchor Cable Assemblies may be used. Minimum breaking strength of assembly should be 40,000 lbs.
3. Second Terminal Post does not require holes to accomodate Anchor Cable.
4. Slip Base Load shall be controlled with a Calibrated Torque Wrench - Torque 155 - 170 ft. lbs.
5. Concrete shall be Class A.
6. For additional and or revised BCT Details to "A Guide to Standardized Highway Barrier Rail Hardware," a report prepared and approved by the AASHTO-AGC-ARTBA joint cooperation committee. All hardware shall conform to above mentioned publication and as revised from time to time.

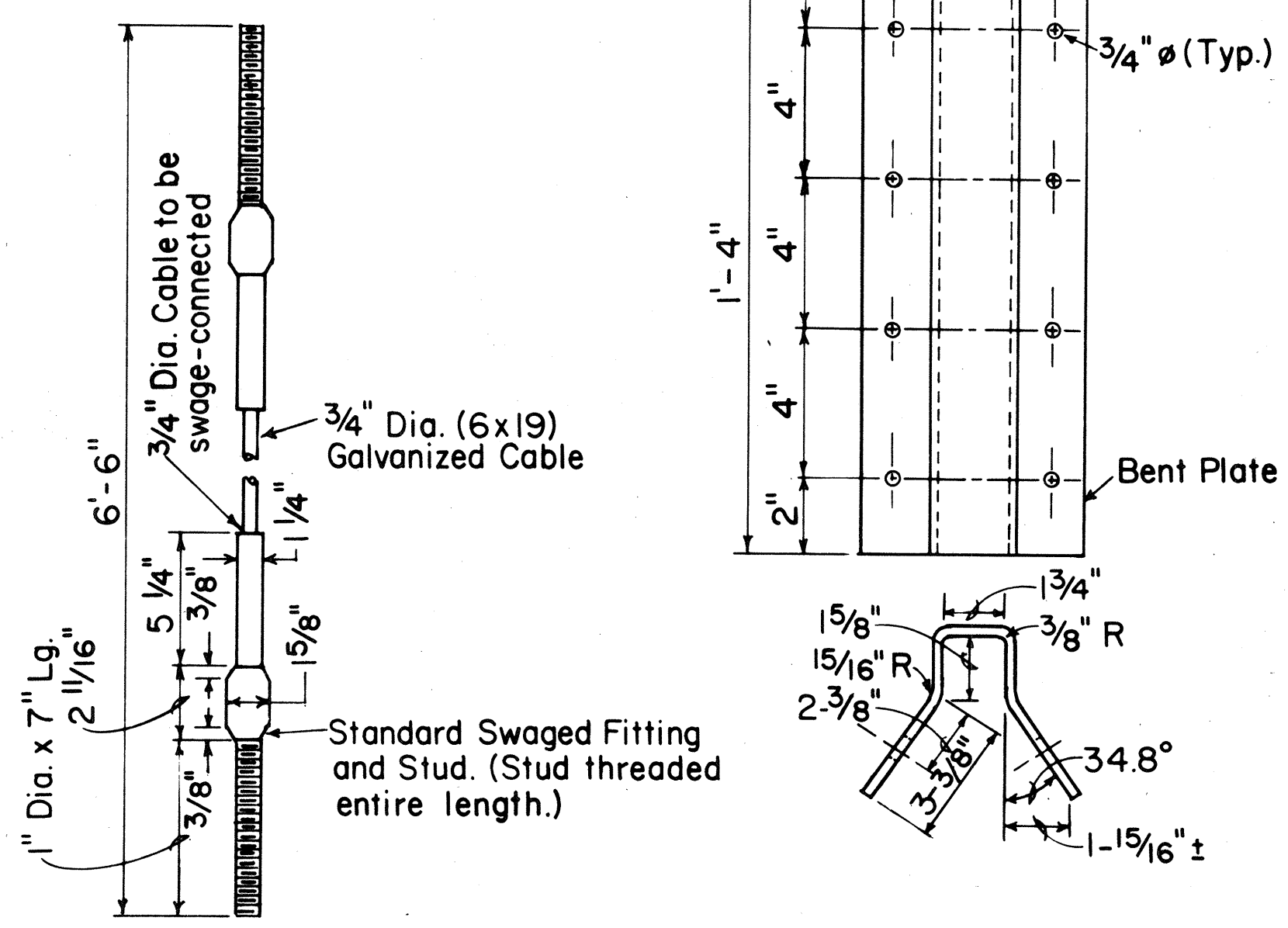
Grade End Treatment area to a max. 10:1 slope

Use 12" long Backup Plate at Posts where W-Beam splice does not occur. For Details see Sht. No. TE-50.

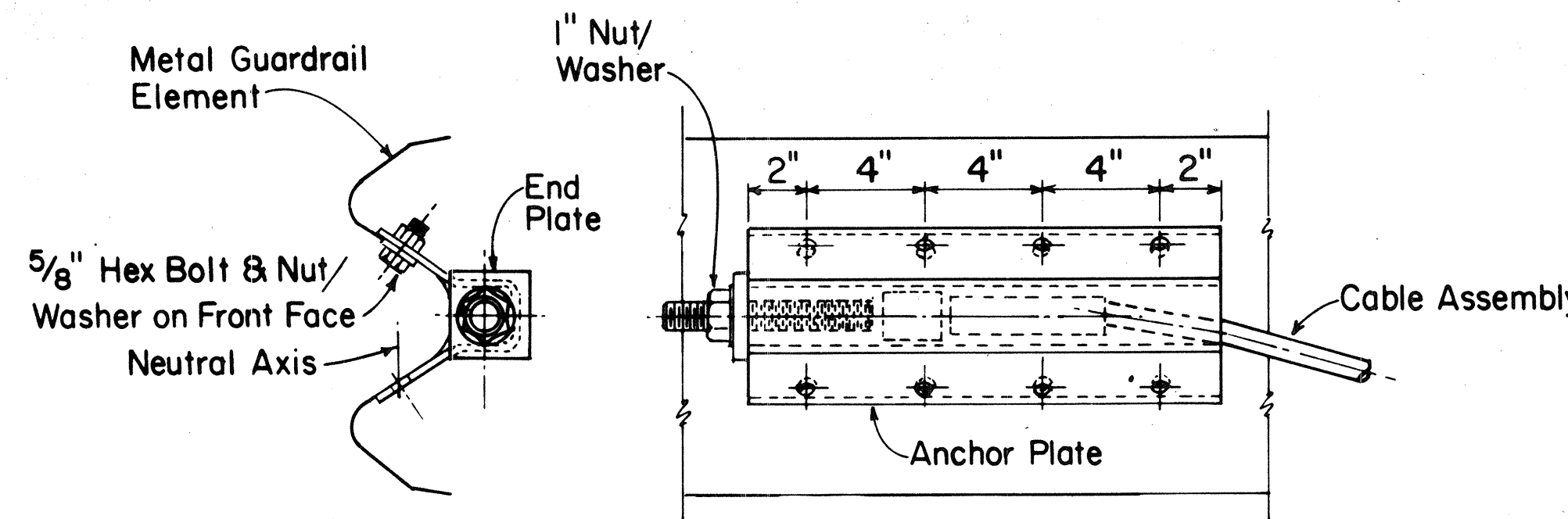


ELEVATION

DETAIL A



SECTION A-A



DATE	REVISION	APP'D.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

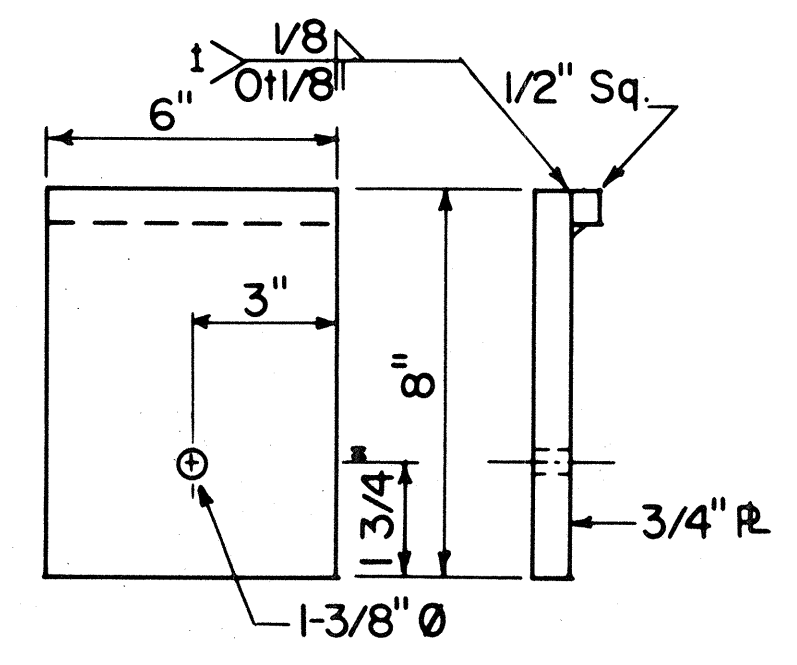
TYPICAL DETAIL

BREAKAWAY CABLE TERMINAL (BCT)

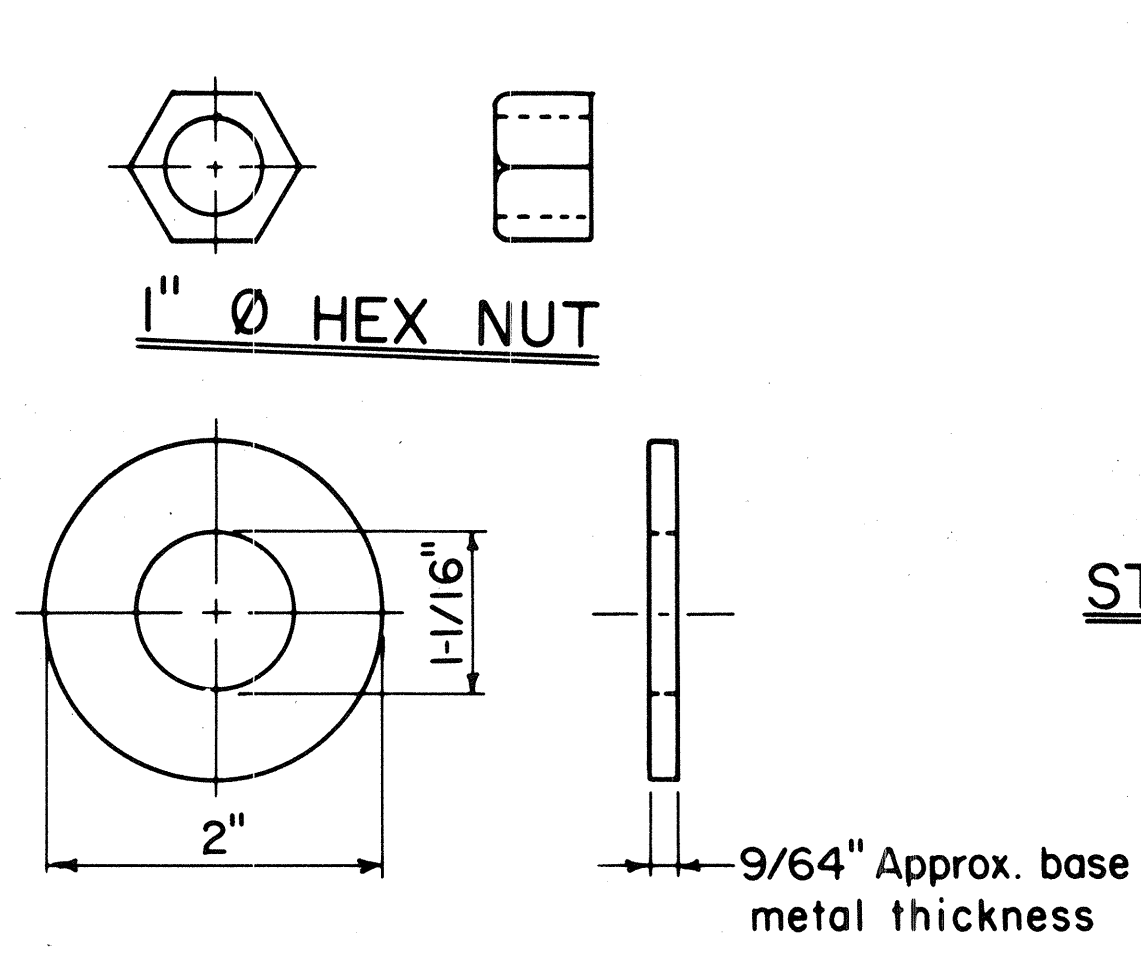
SHEET No. OF SHEETS

DATE	
SURVEY PLOTTED BY	
ORIGINAL PLAN	
DESIGNED BY	
NOTED BY	
CHECKED BY	

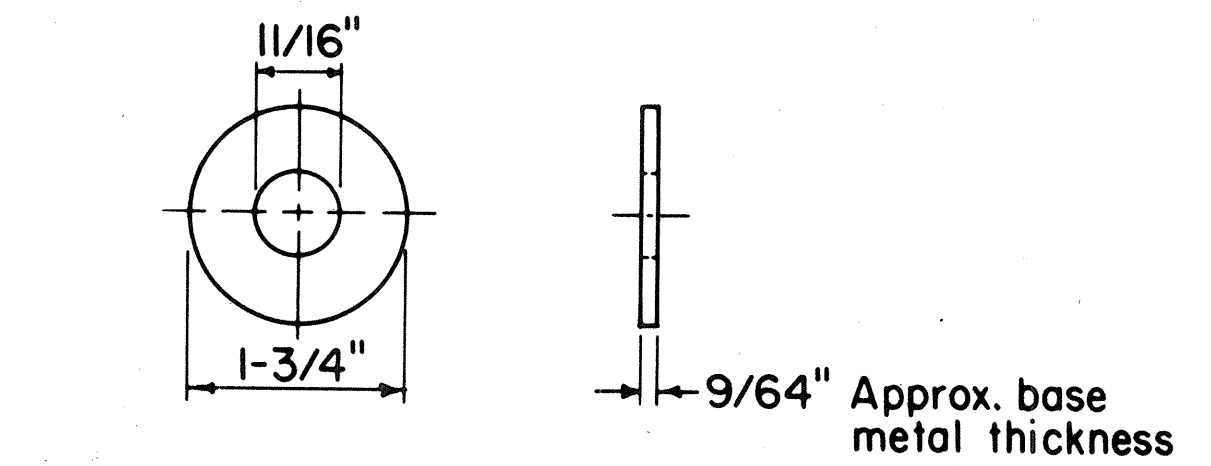
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-0100(28)	1986	32	67



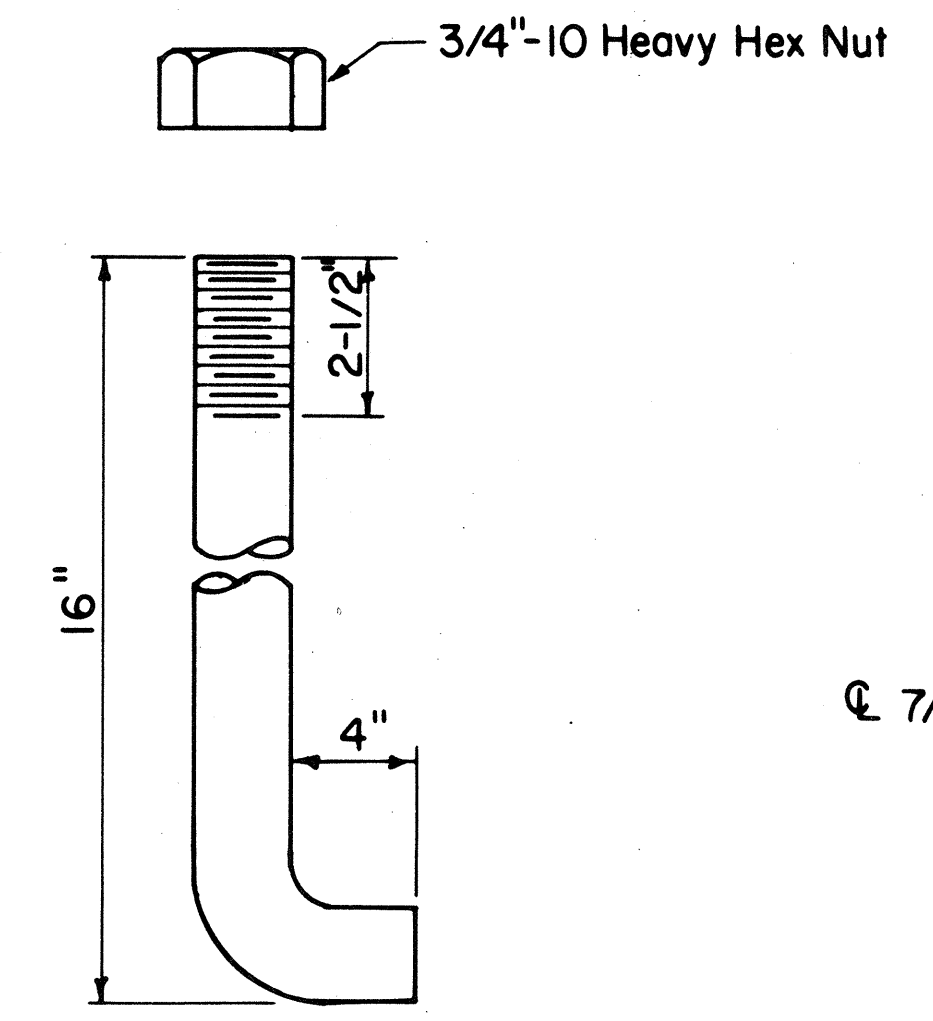
BEARING PLATE



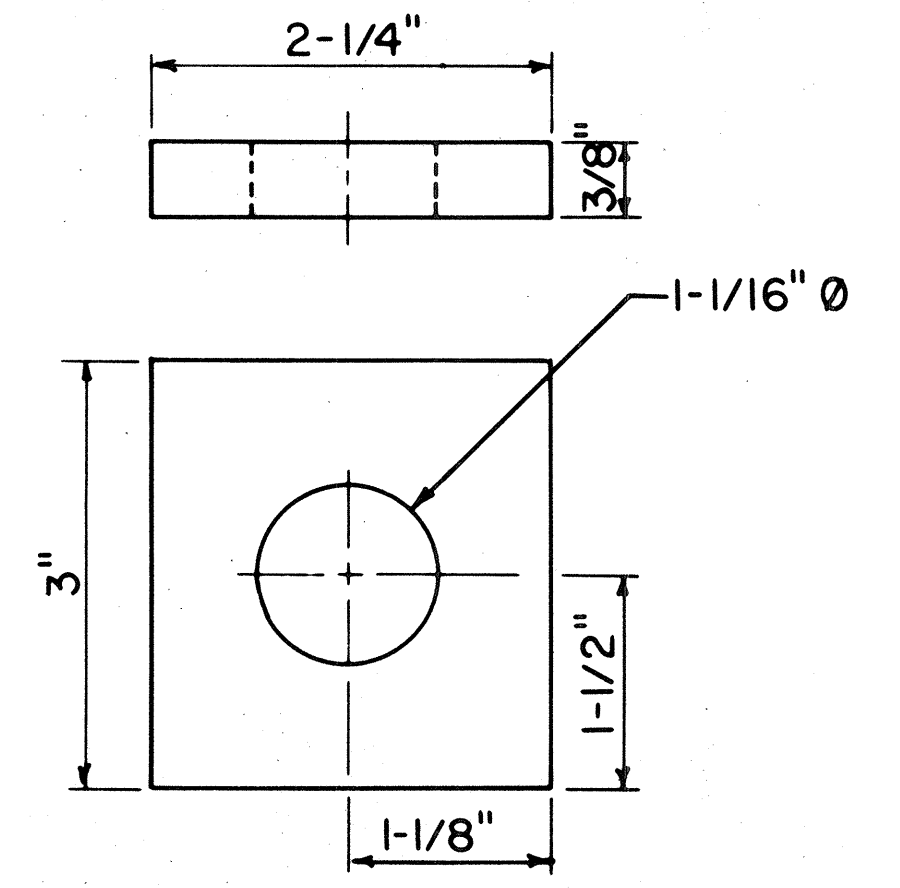
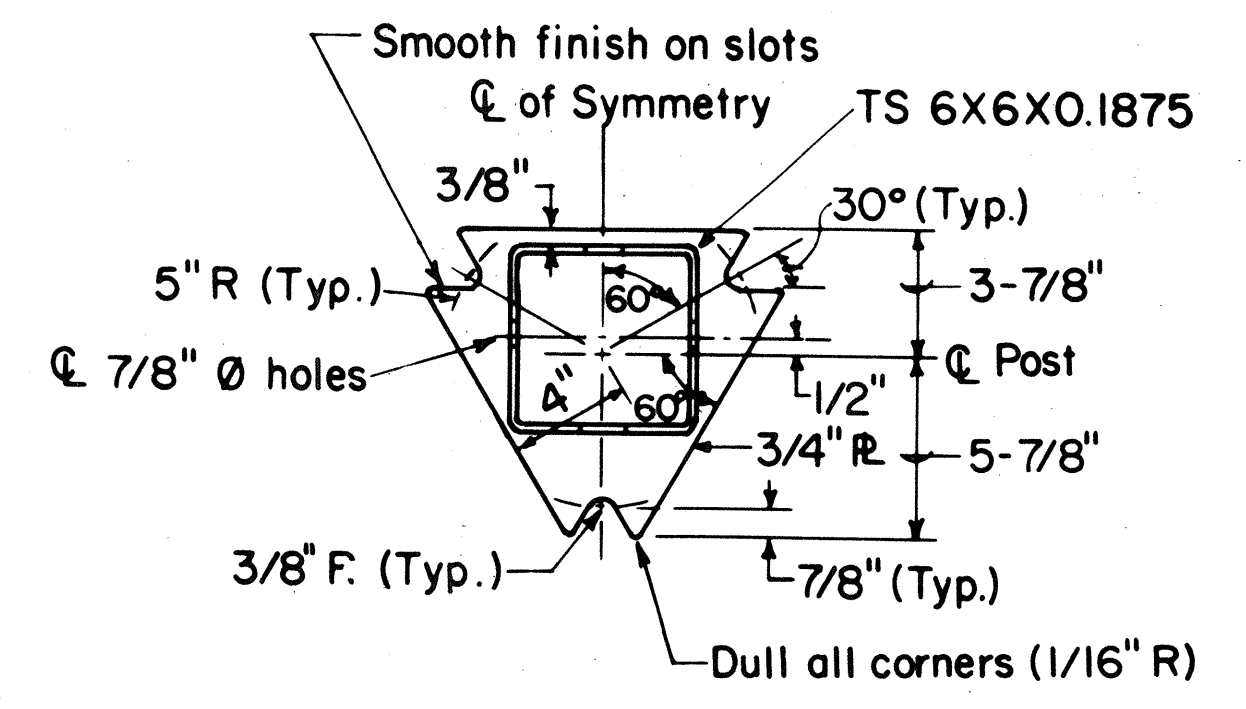
STEEL WASHER



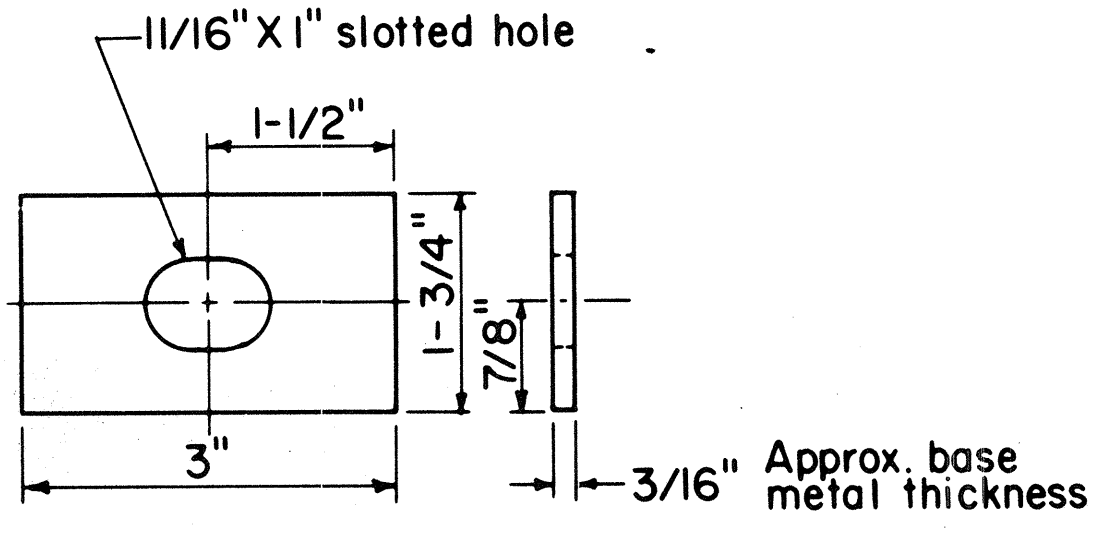
STANDARD STEEL WASHER



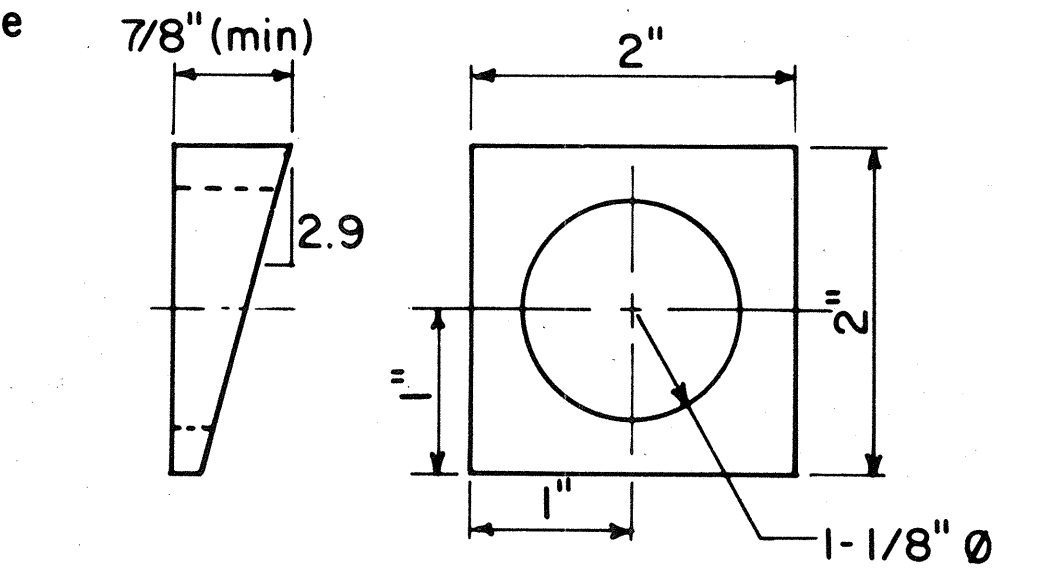
3/4" Ø ANCHOR BOLT X 16" LONG



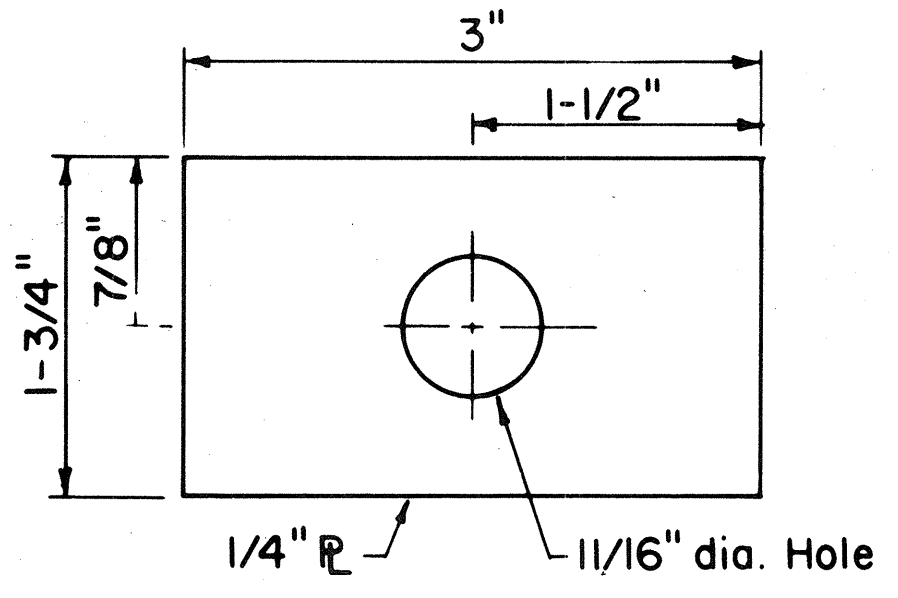
END PLATE



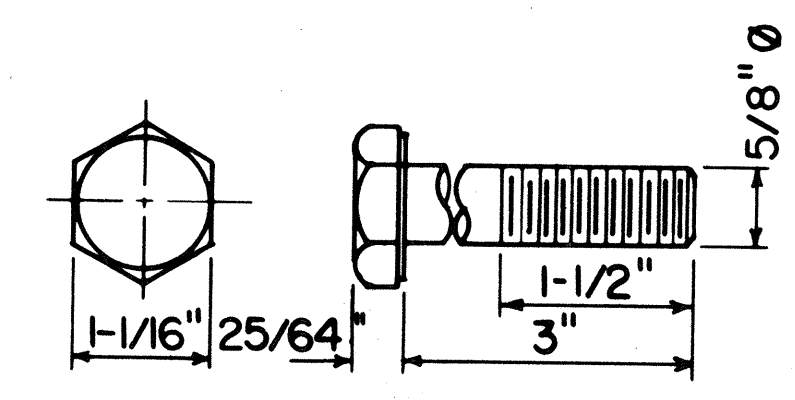
RECTANGULAR PLATE WASHER



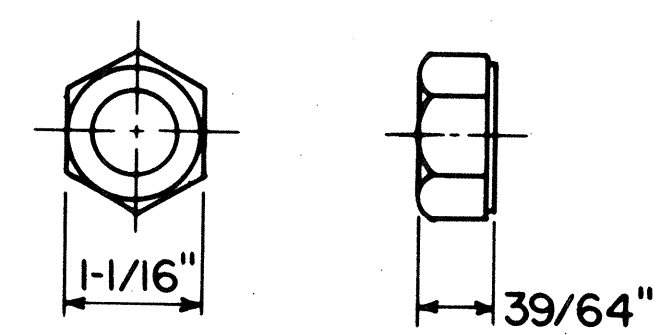
TAPERED WASHER



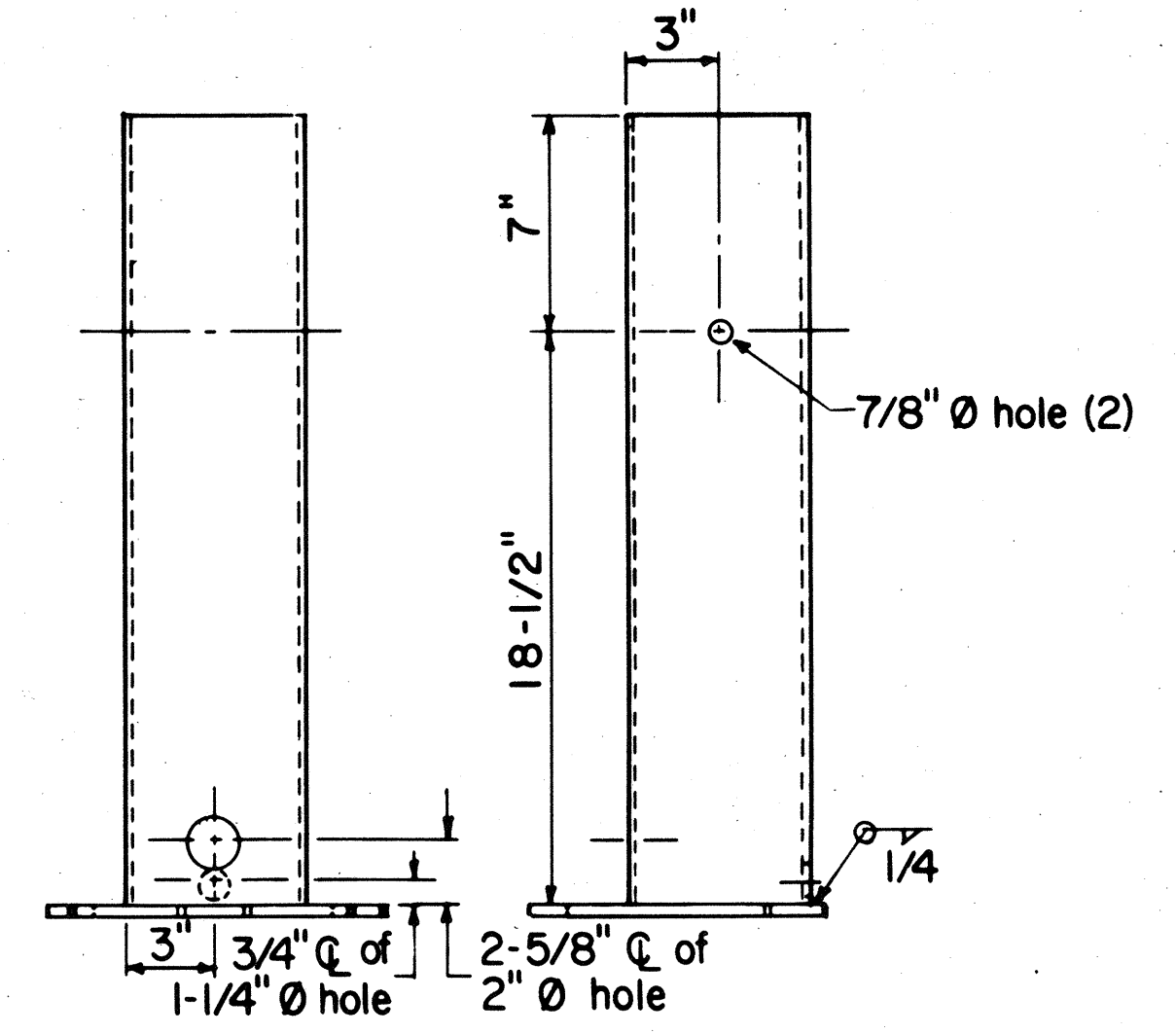
FLAT PLATE WASHER



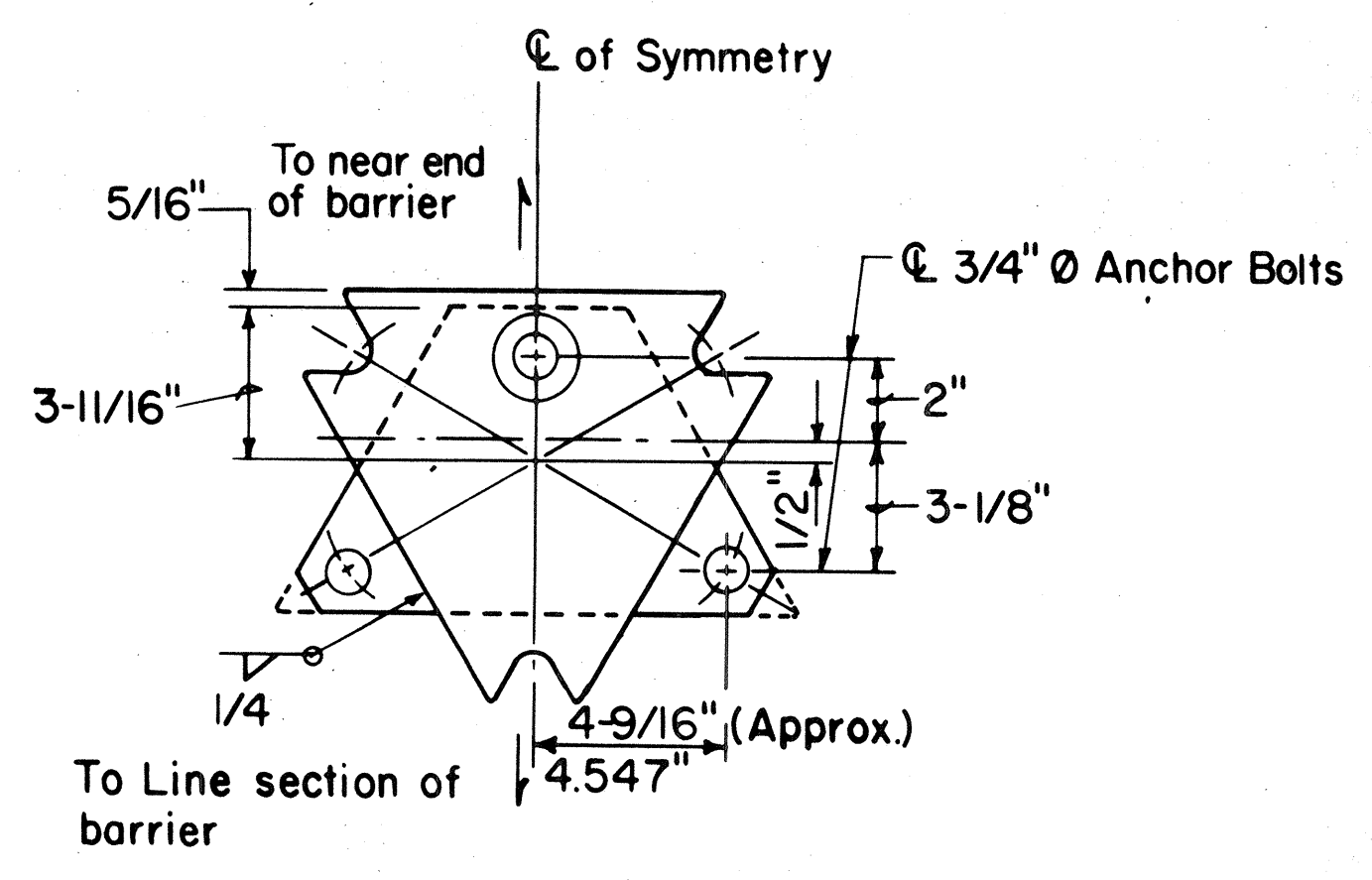
5/8" Ø HS BOLT



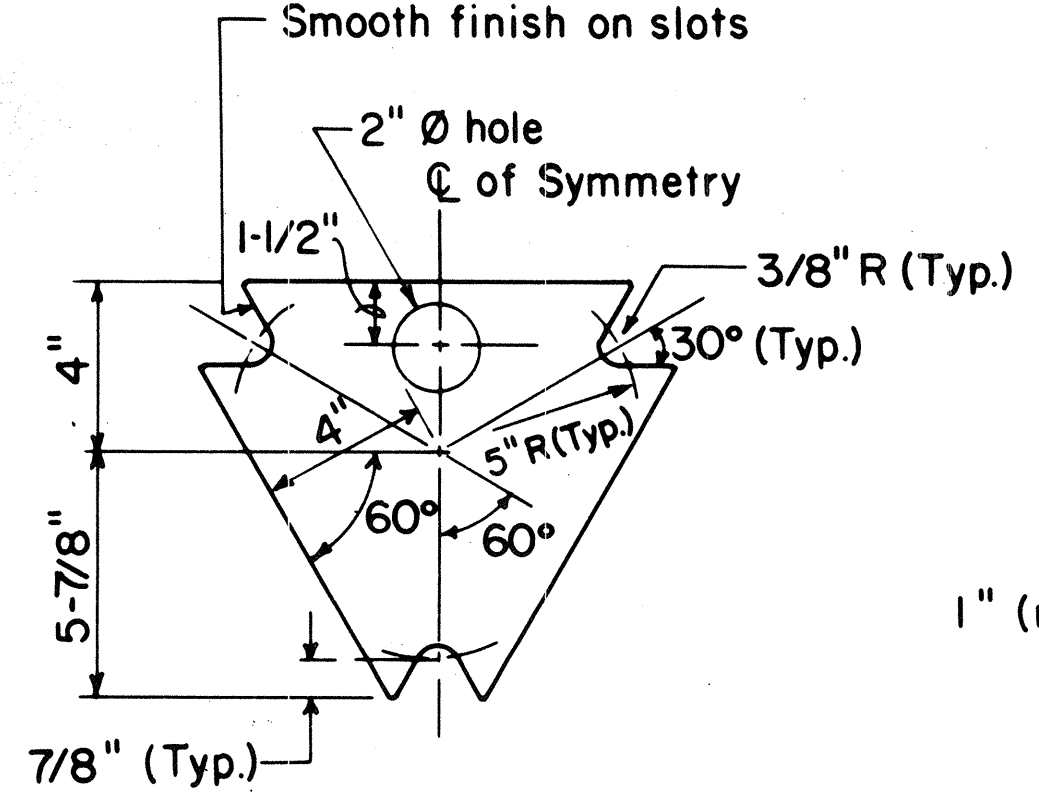
5/8" Ø HS NUT



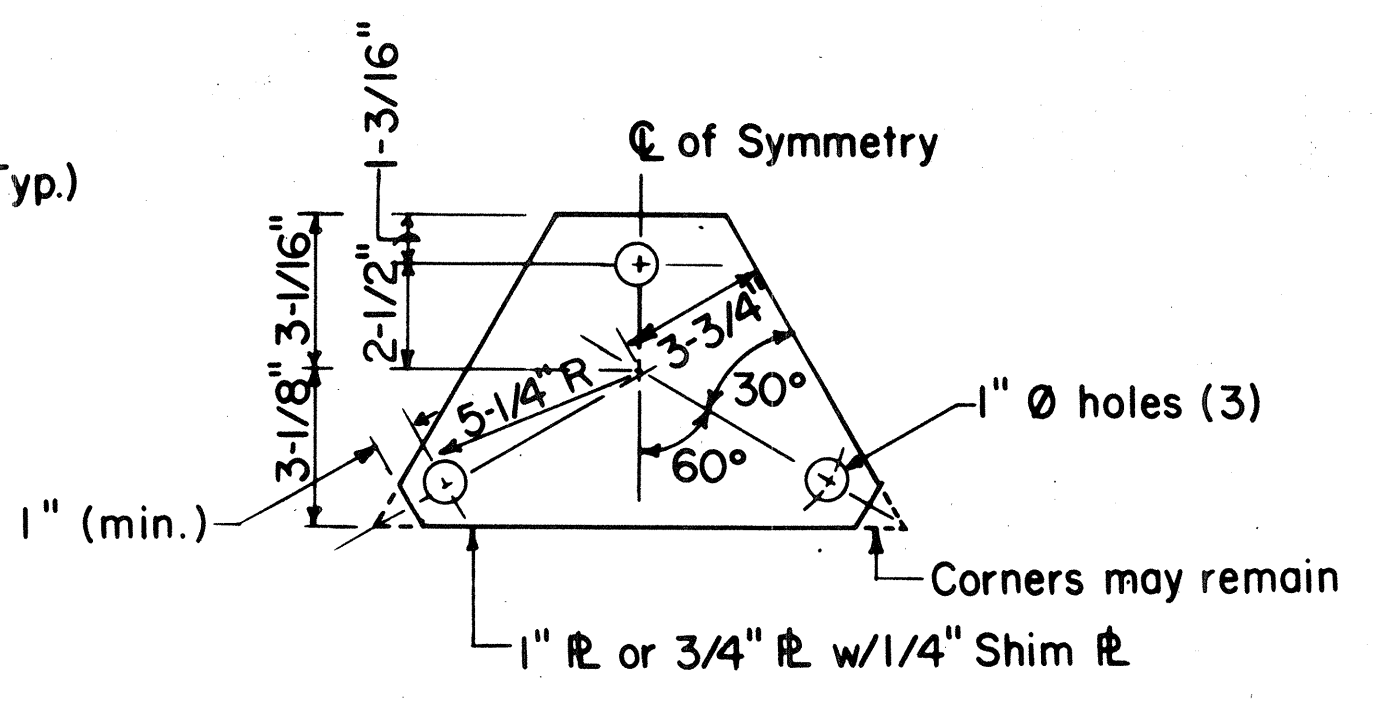
TERMINAL POST



TOP VIEW



TOP PLATE



BOTTOM PLATE

FOUNDATION PLATES

DATE	REVISION	APP'D.

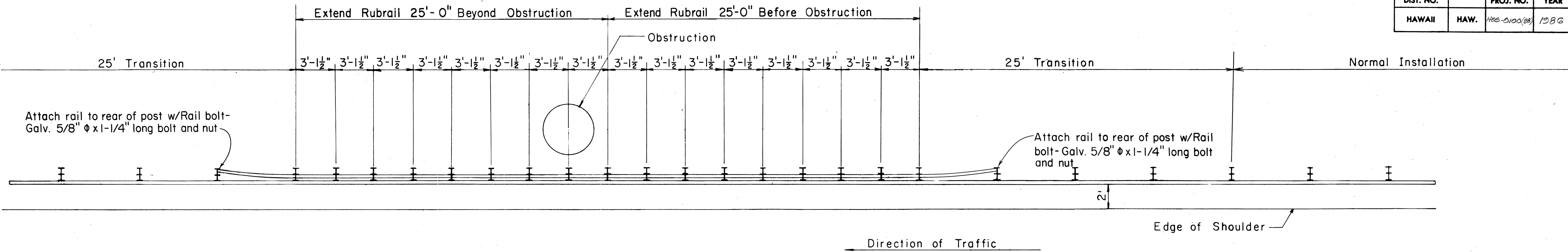
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAIL
BREAKAWAY CABLE TERMINAL (BCT)

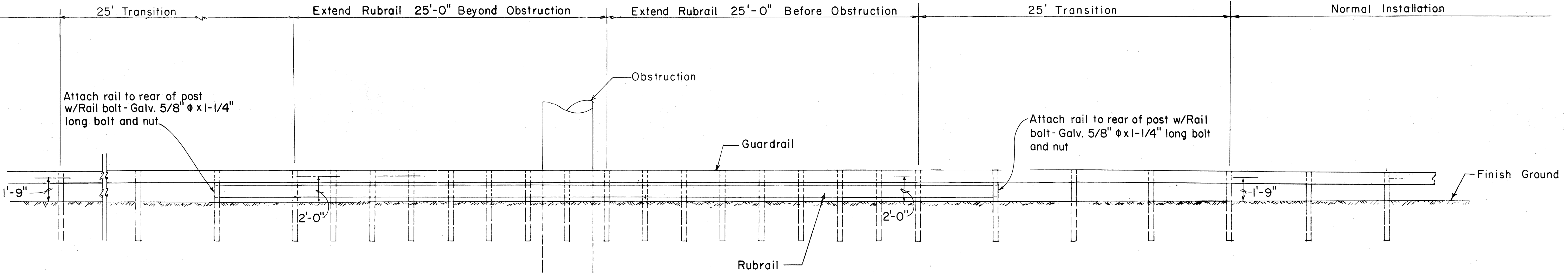
SHEET NO. 32 OF 67 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H2S-0100(28)	1986	33	67



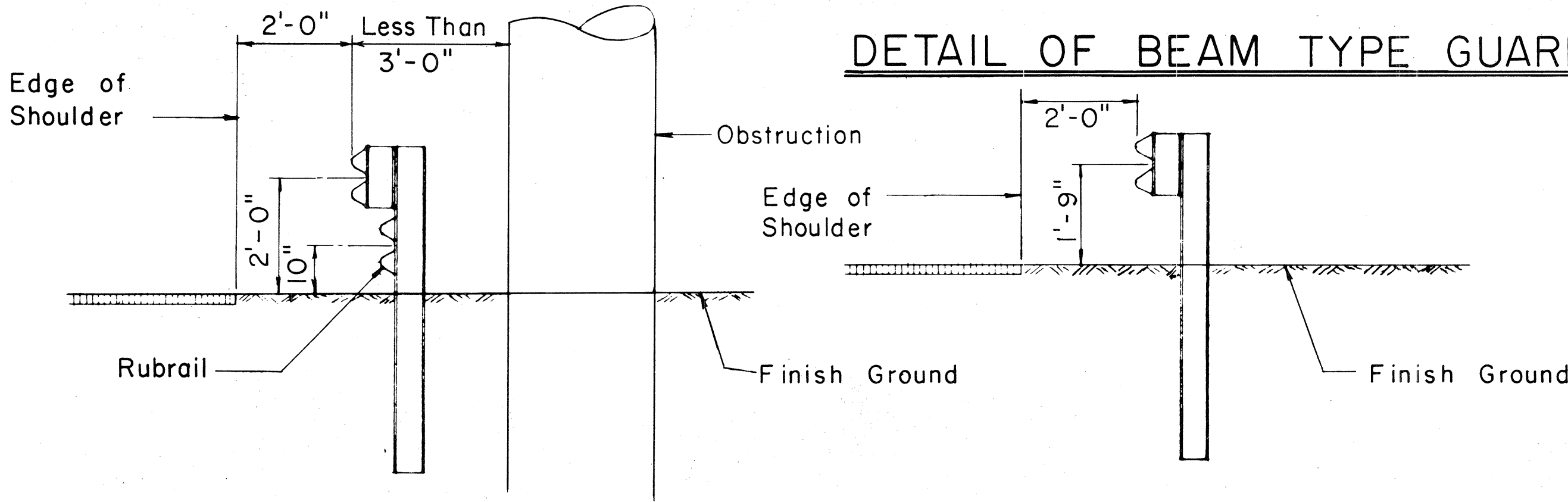
PLAN



ELEVATION

DETAIL OF BEAM TYPE GUARDRAIL WITH RUBRAIL AT OBSTRUCTION

Scale 1/4" = 1'-0"



TYP. SEC. AT OBSTRUCTION

TYP. SEC. AT NORMAL INSTALLATION

TYPICAL GUARDRAIL SECTIONS

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

DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
.....	

DATE	REVISION	APP'D.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAIL
BEAM TYPE GUARDRAIL WITH
RUBRAIL AT OBSTRUCTION
(SHOULDER INSTALLATION)