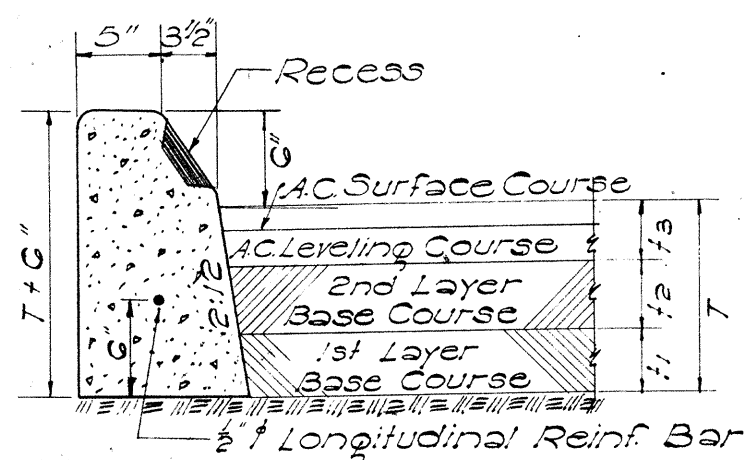


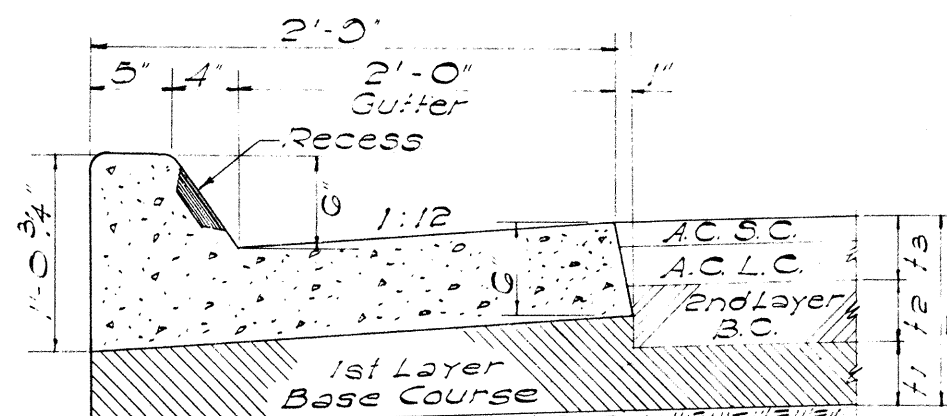
2/17/50
9/22/61

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-073-10	1966	10	42

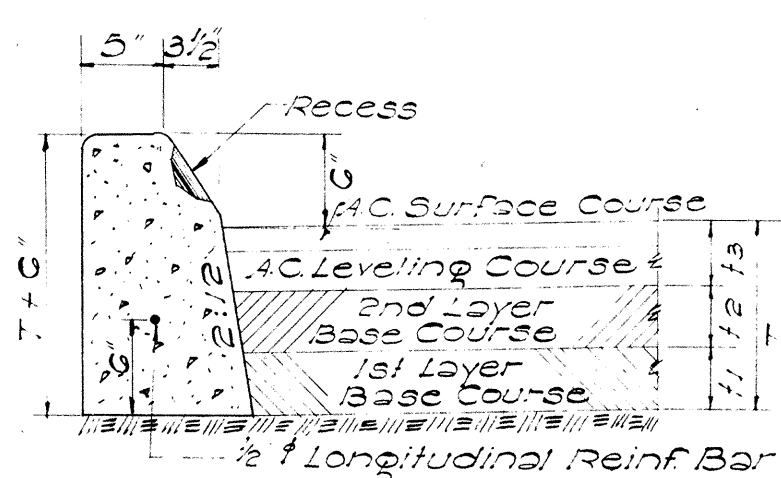
AUG. 1957



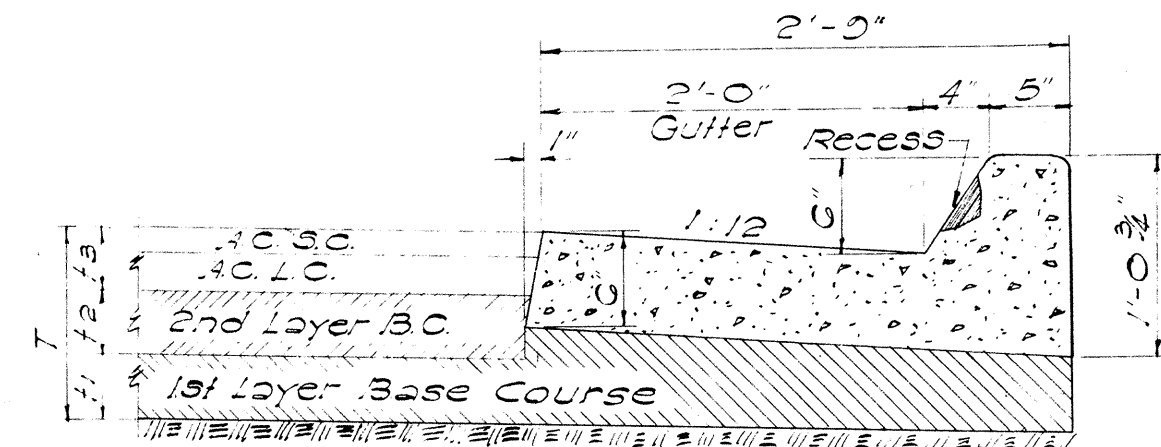
TYPE "A" & "B" CURB
SCALE: 1" = 1'-0"



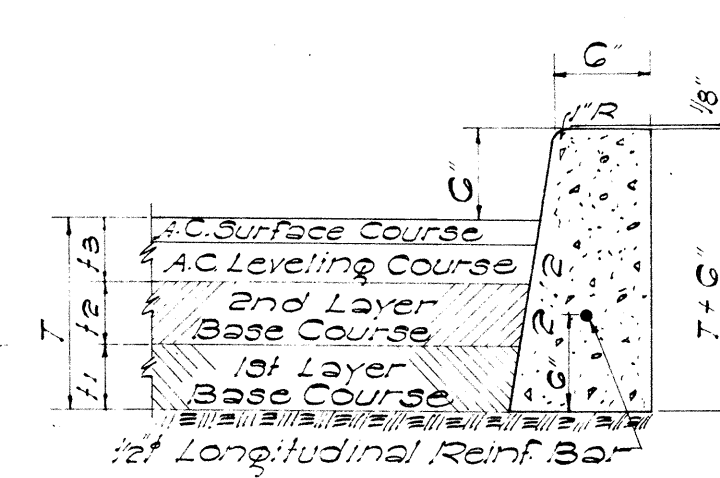
TYPE "AG" & "BG" CURB & GUTTER
SCALE: 1" = 1'-0"



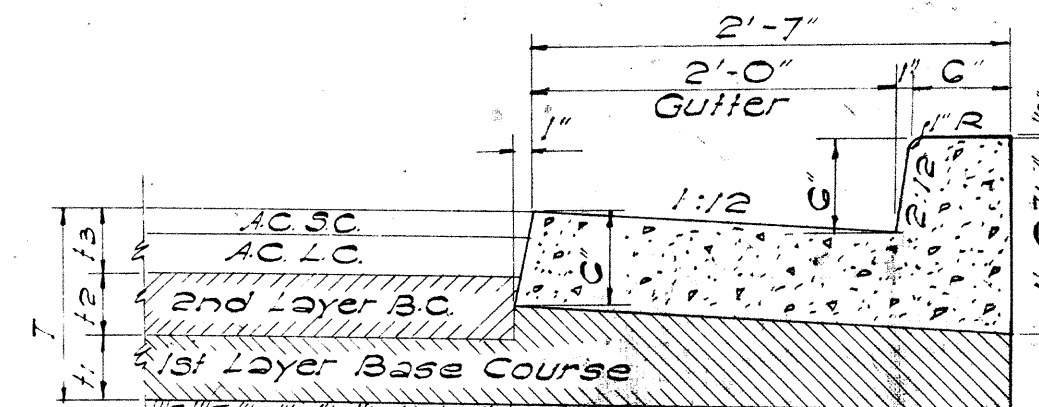
TYPE "C" CURB
SCALE: 1" = 1'-0"



TYPE "CG" CURB & GUTTER
SCALE: 1" = 1'-0"

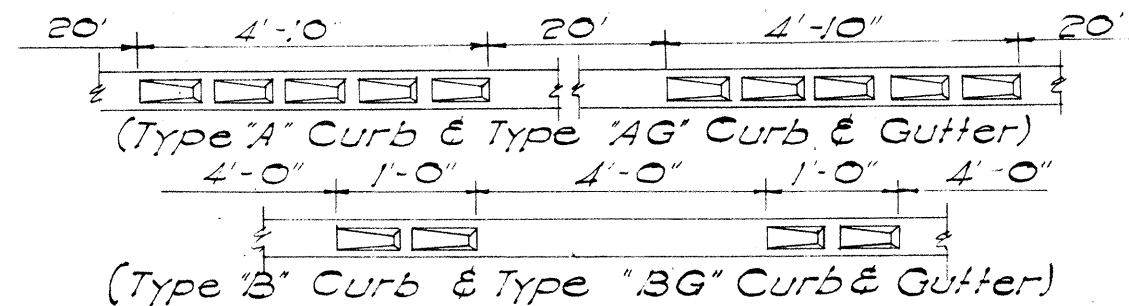


TYPE "D" CURB
SCALE: 1" = 1'-0"

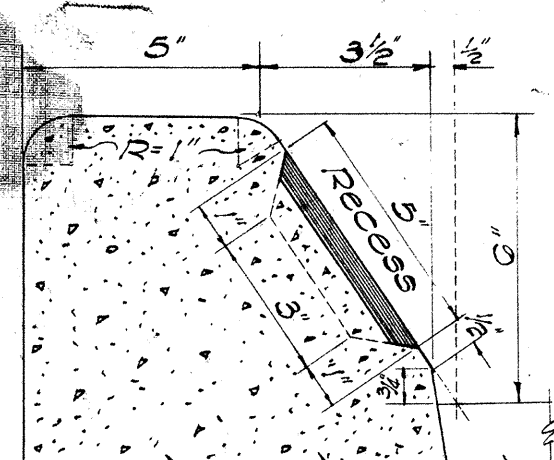


TYPE "DG" CURB & GUTTER
SCALE: 1" = 1'-0"

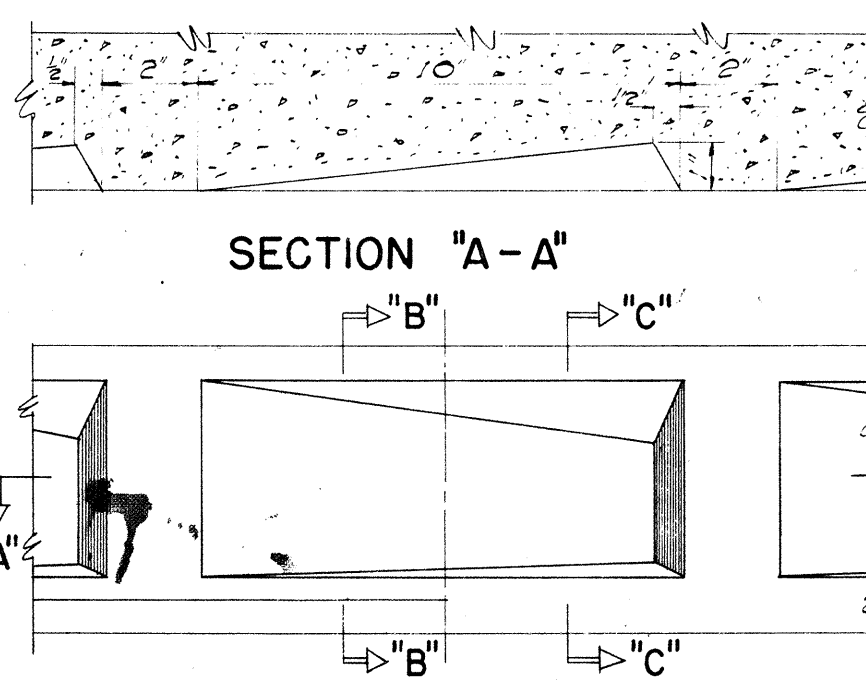
General Note Covering All Types of Curbs:
Occasionally curb rests on first layer
of base course. See typical sections.



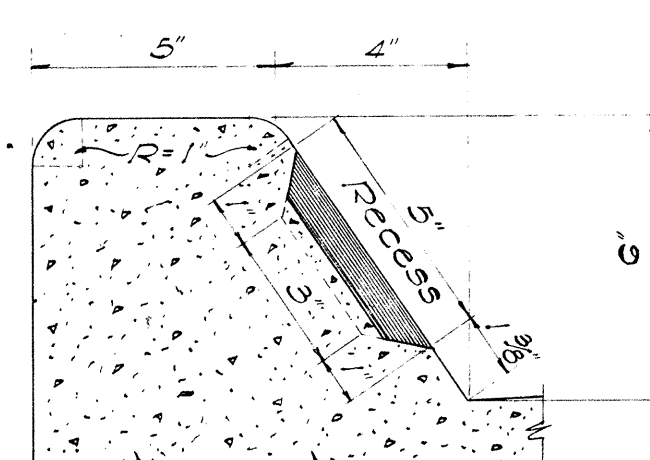
TYPE AND SPACING OF RECESSES



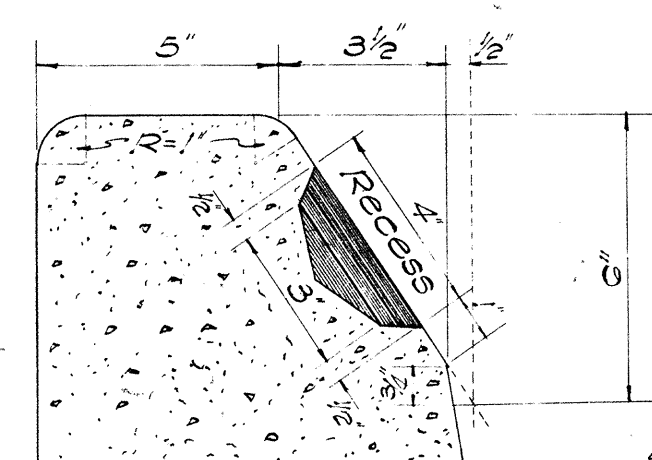
SECTION "B-B"
TYPE "A" & "B" CURB



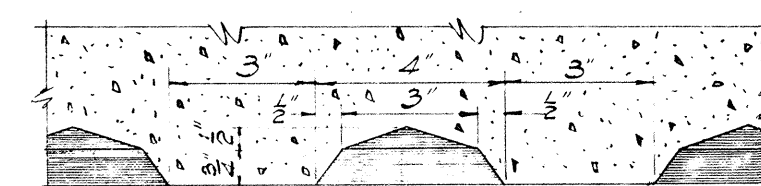
ELEVATION
SCALE: 3" = 1'-0"



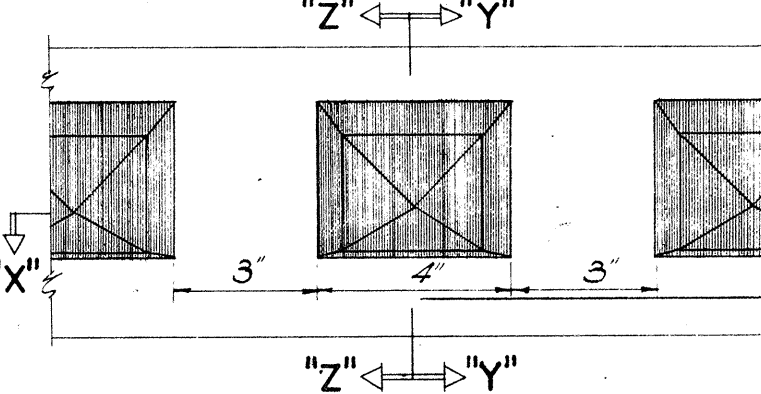
SECTION "C-C"
TYPE "AG" & "BG" CURB



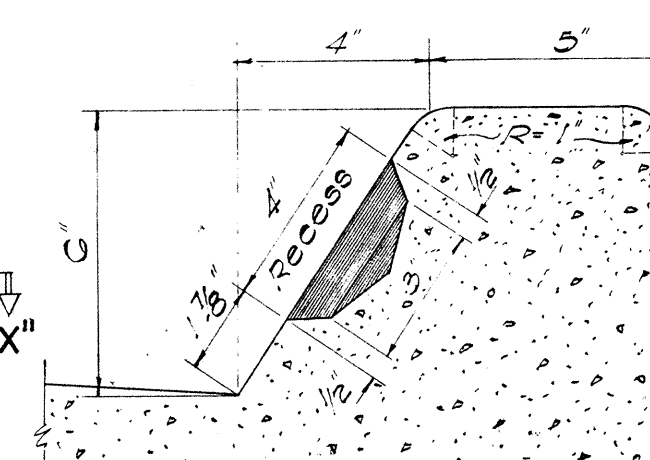
SECTION "Y-Y"
TYPE "C" CURB



SECTION "X-X"
"Z" < "Y"

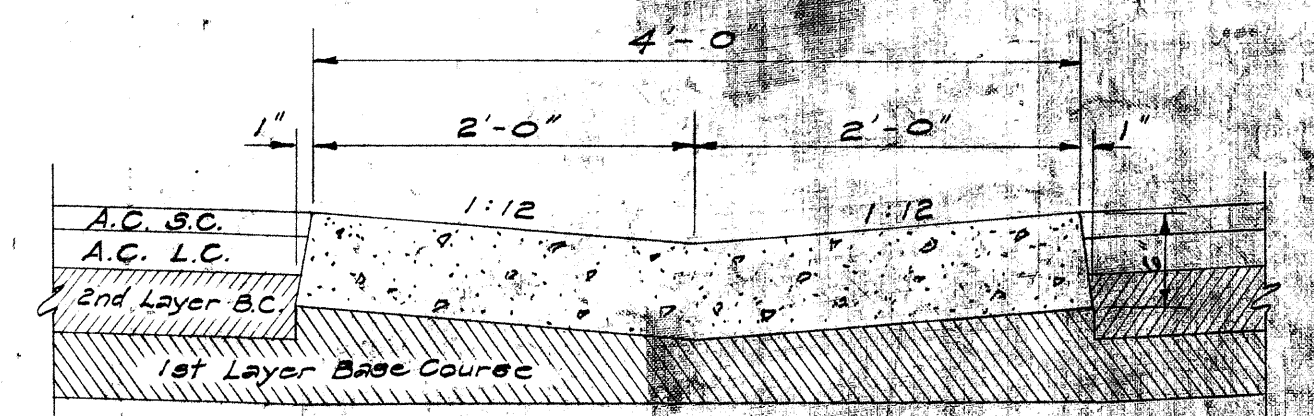


ELEVATION
SCALE: 3" = 1'-0"



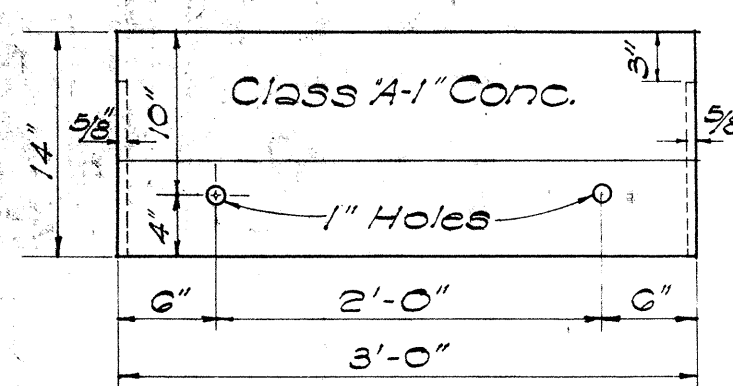
SECTION "Z-Z"
TYPE "CG" CURB

- NOTES:
- 1) Types "AG", "BG", "CG", "DG" and "EG" Concrete Curbs and Gutters are to be poured monolithically.
 - 2) Types "A", "B", and "C" Curbs and Types "AG", "BG" and "CG" Curbs and Gutters occur at Median Strips and Traffic Islands.
 - 3) Shaded area in Curbs are to be painted with an approved white lacquer. (One Coat)
 - 4) All Conc Curbs and Gutters shown herein are to be of Class "A-1" Conc. and Cast in Place.



TYPE "G" GUTTER
SCALE: 1" = 1'-0"

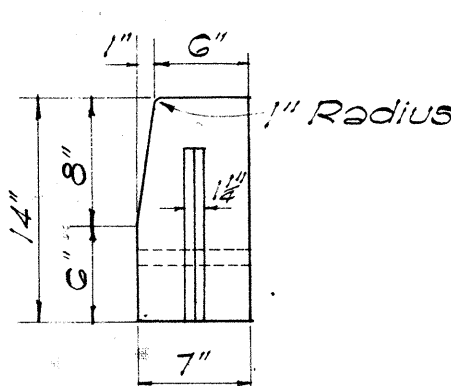
DETAILS OF CAST-IN-PLACE CONC. CURBS AND GUTTERS



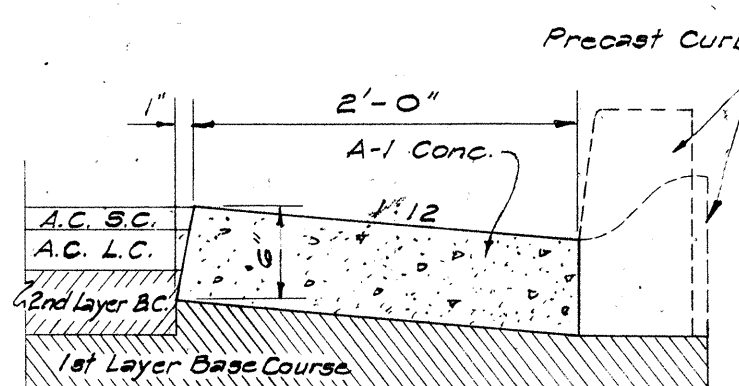
FRONT ELEV.

PRECAST CONC. CURB

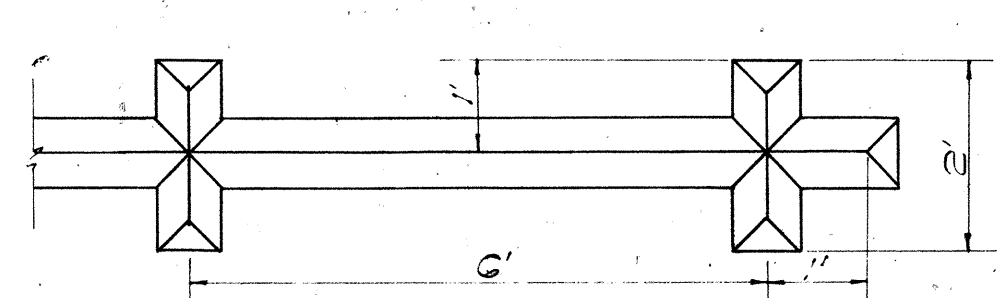
SCALE: 1" = 1'-0"



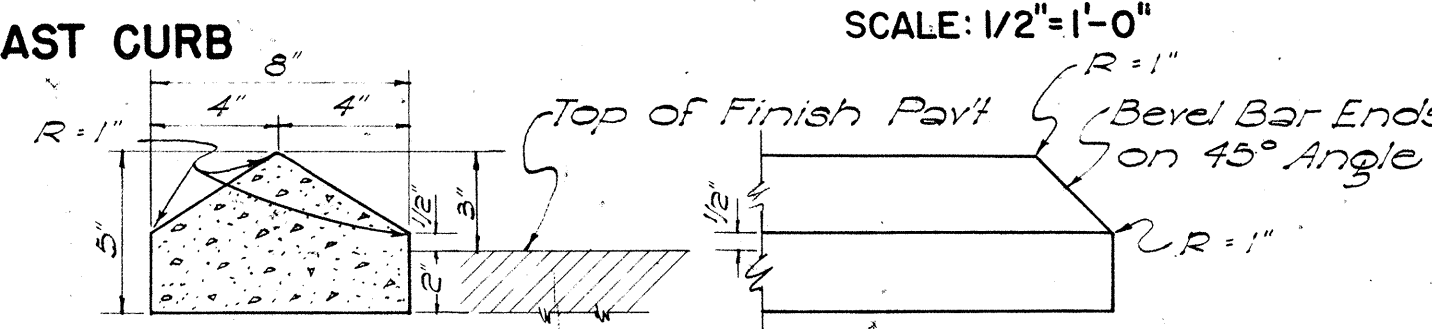
END ELEV.



TYPE "F" GUTTER
FOR PRECAST CURB

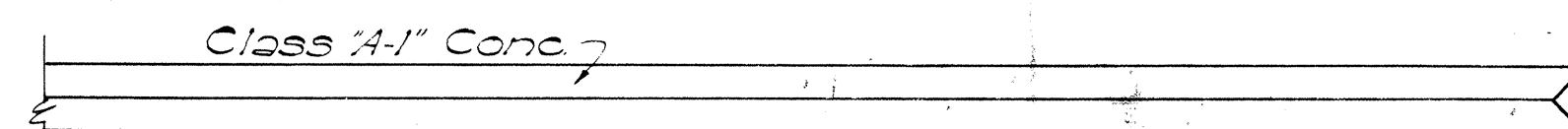


PLAN
SCALE: 1/2" = 1'-0"



SECTION
RAISED TRAFFIC BARS

SCALE: 2" = 1'-0"

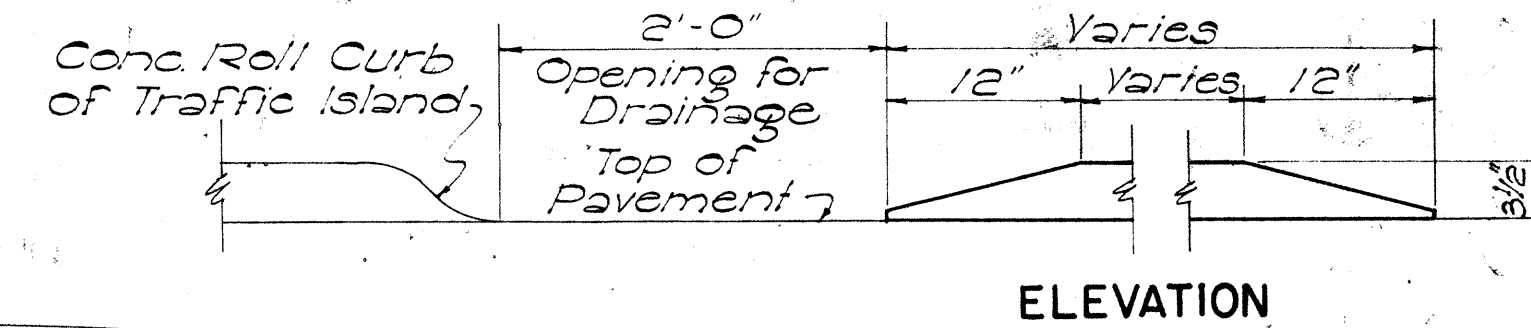


PLAN

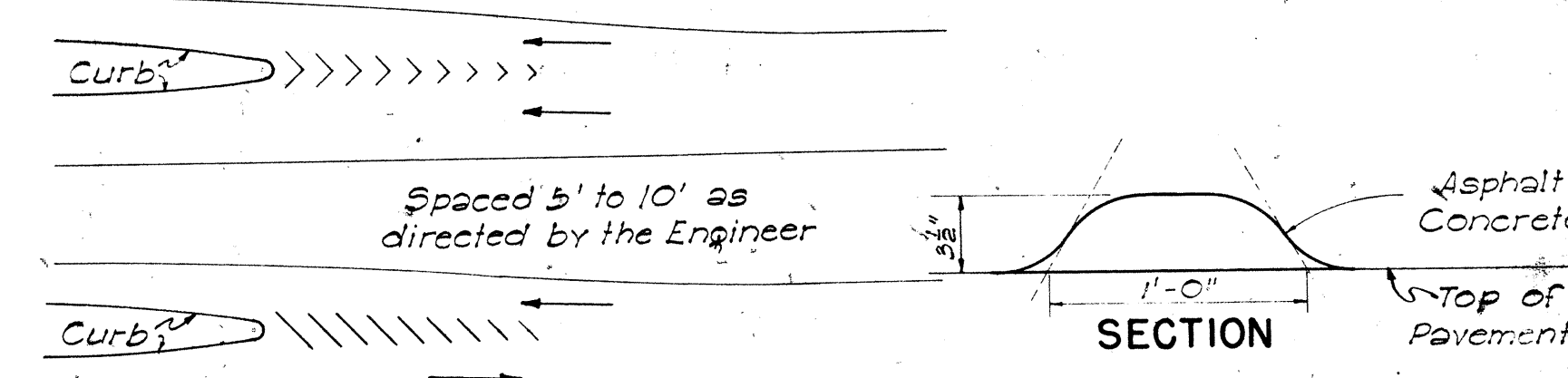
NOTE:
Section and Elevation
for Jiggle Bars are same
as the Traffic Bars.

RAISED JIGGLE BARS

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

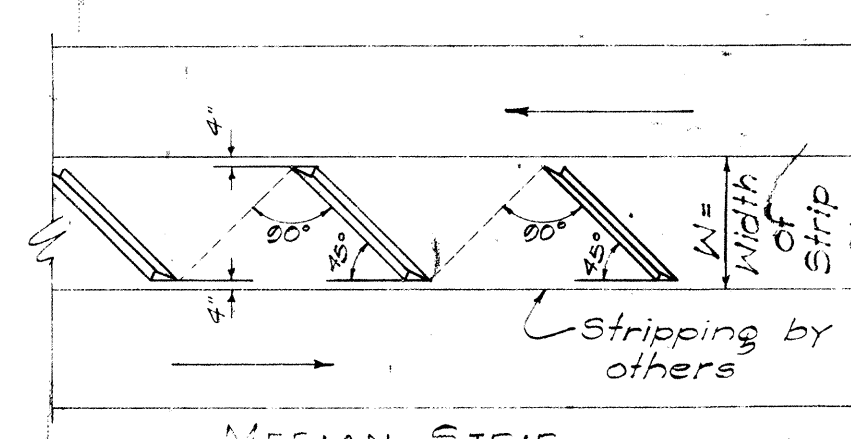


ELEVATION

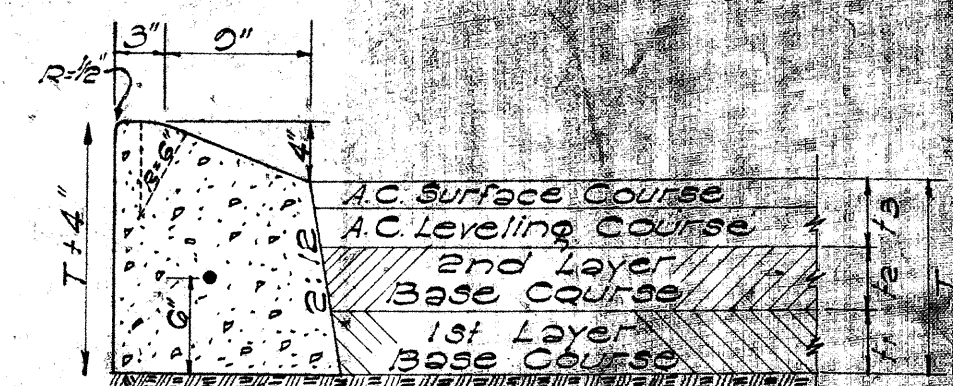


SECTION

A.C. TRAFFIC ROLL
NOT TO SCALE

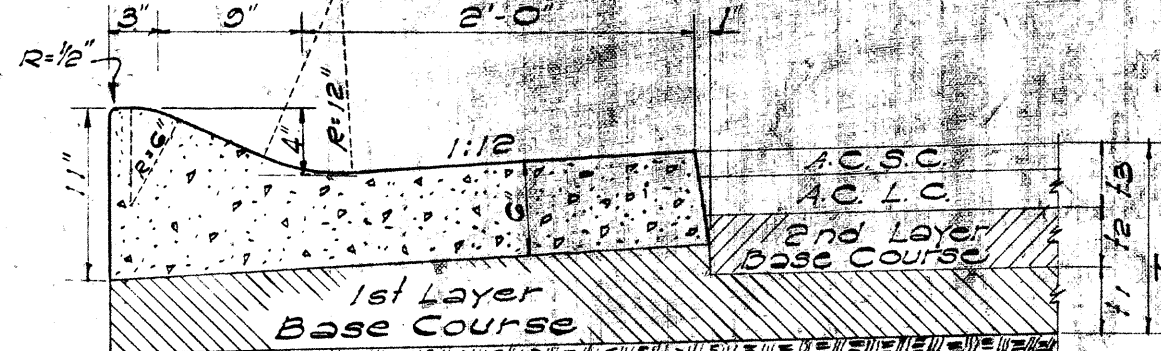


AT CURBED ISLAND
MEDIAN STRIP
NOT TO SCALE



TYPE "E" CAST-IN-PLACE
CONCRETE CURB

SCALE: 1" = 1'-0"



TYPE "EG" CAST-IN-PLACE
CONC. CURB & GUTTER

SCALE: 1" = 1'-0"

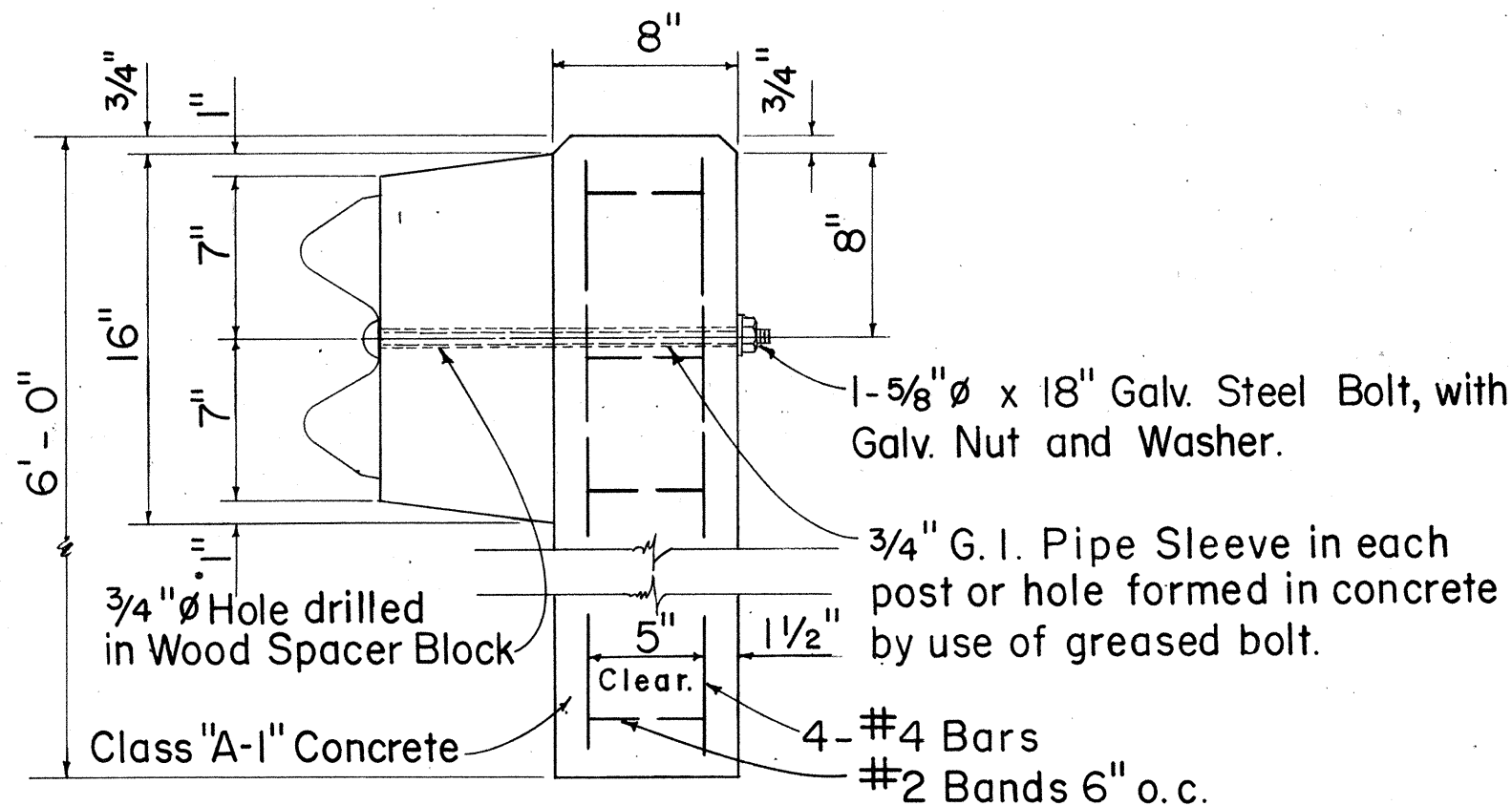
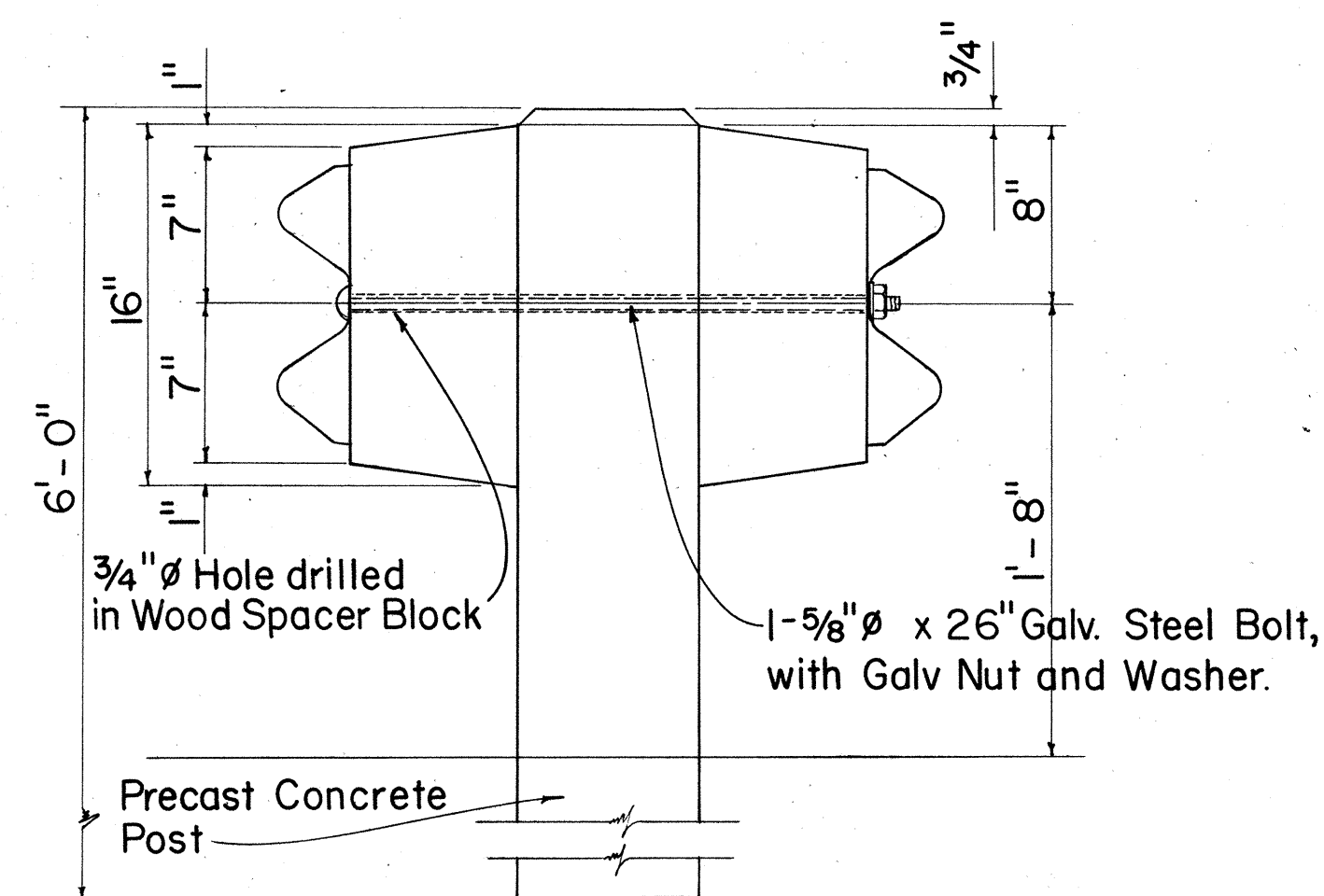
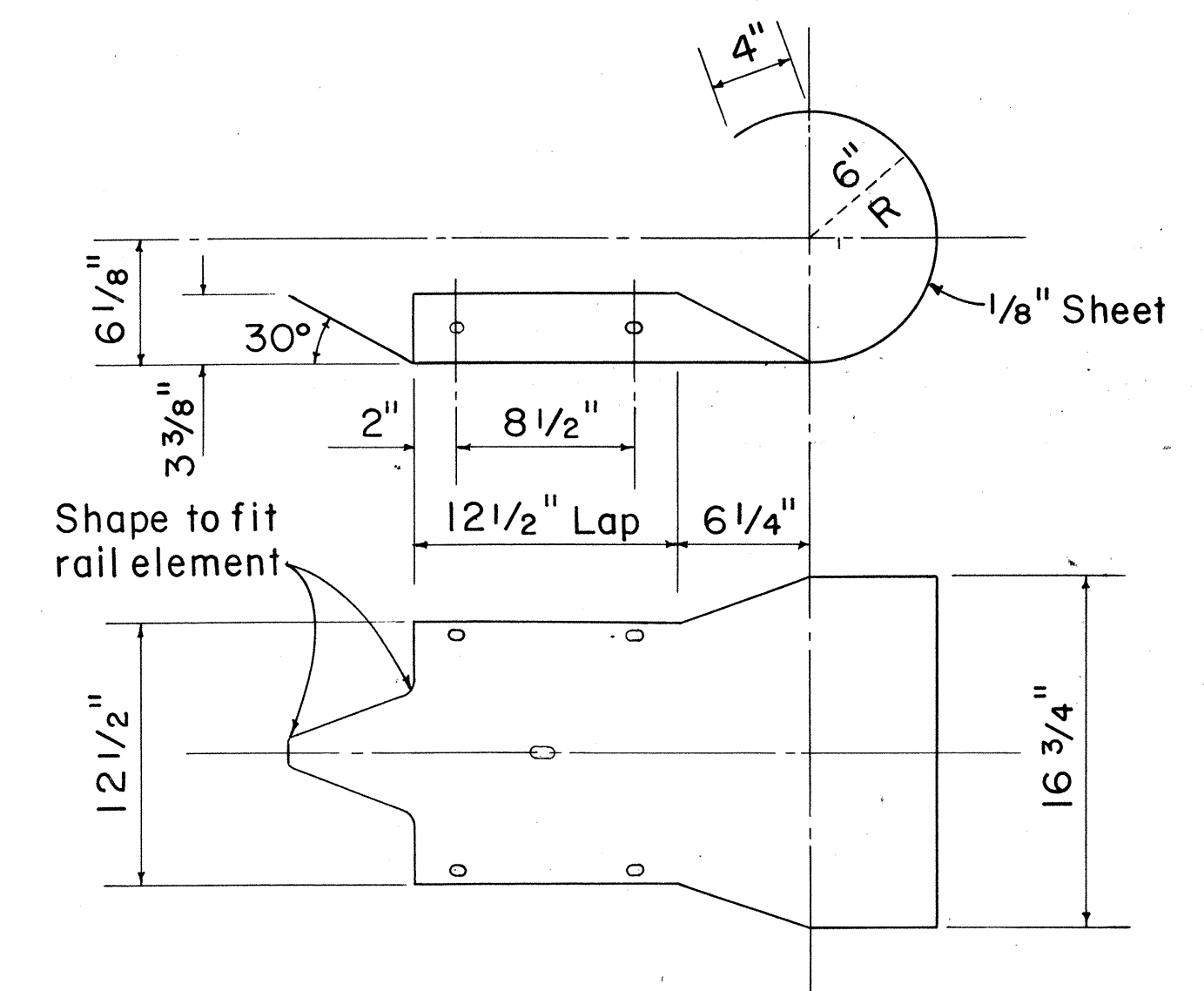
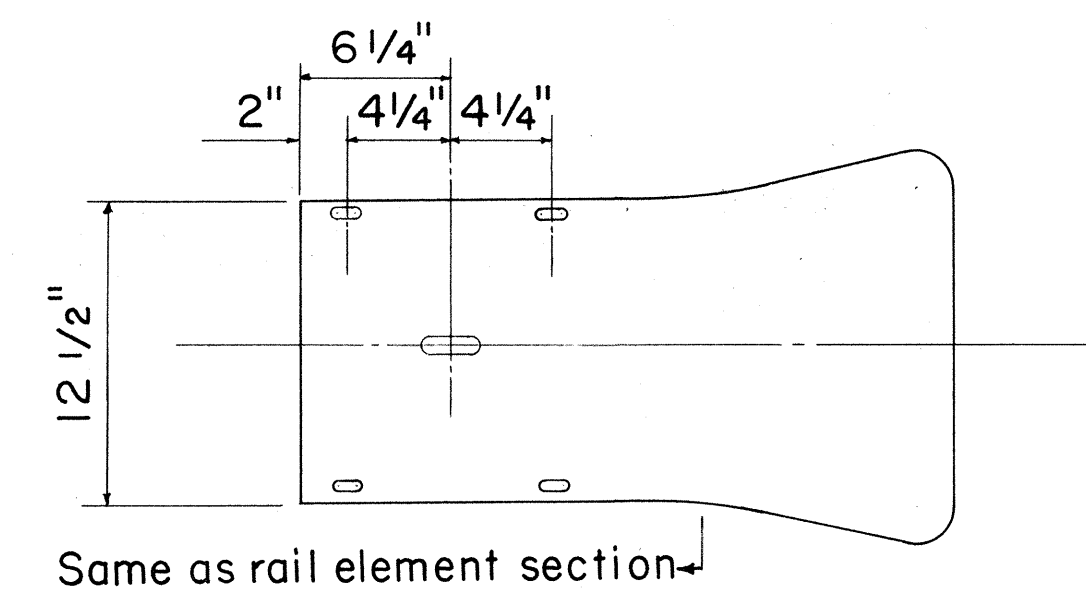
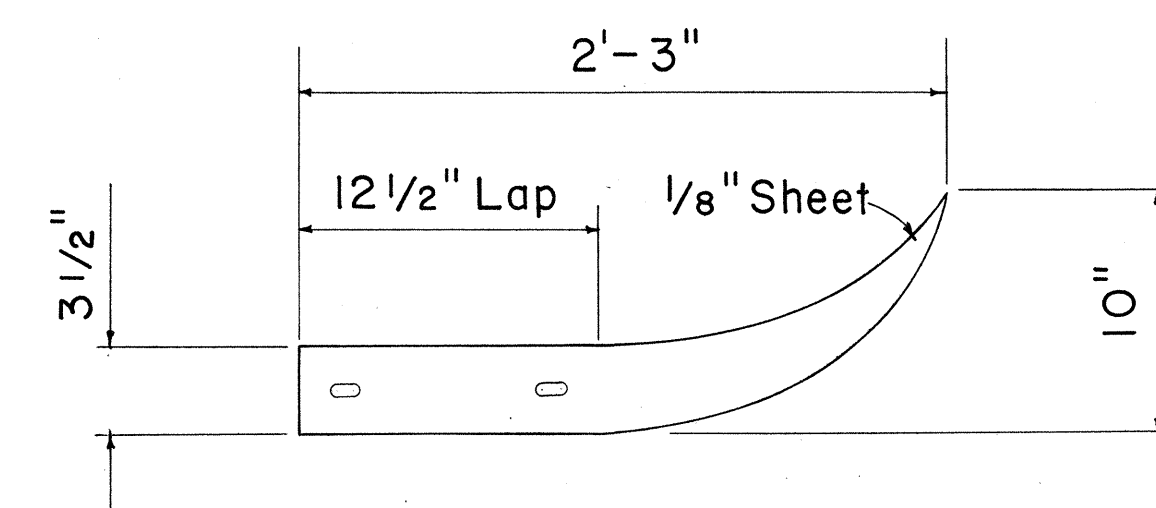
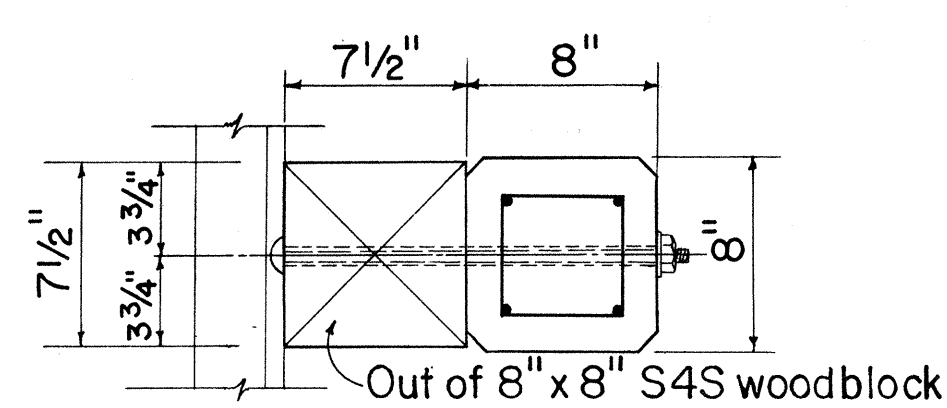
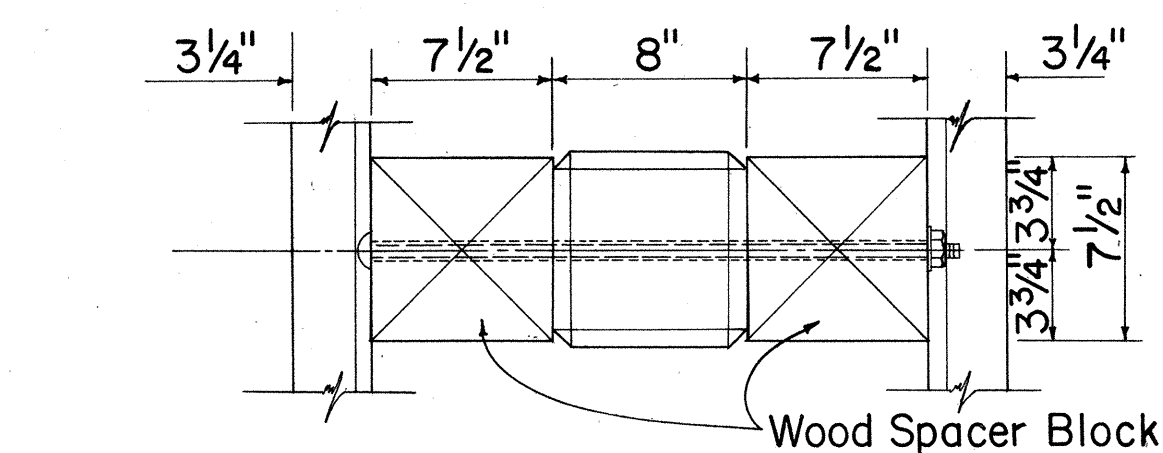
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
CONCRETE CURBS,
CONCRETE CURBS & GUTTERS
SCALES AS NOTED

SHEET NO. 1 OF 3 SHEETS

16 and 16' Curbs have been revised 7-26-57
G' and F' Gutters have been added 9-22-61

SURVEY PLOTTED BY: DATE: 10/1/50
DRAWN BY: C. C. S. / S. / S.
CHECKED BY: C. C. S. / S. / S.
ORIGINAL PLAN
NOTE BOOK
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-075-1(3)	1966	11	42

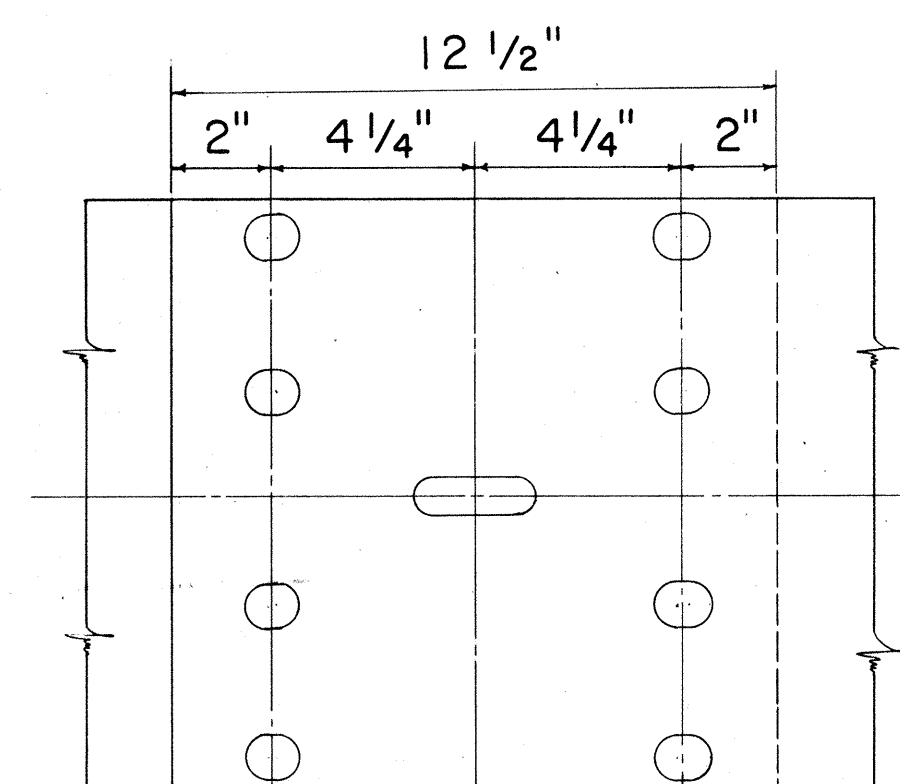


DETAIL OF CONCRETE POST AND WOOD SPACER BLOCK

Scale: $1\frac{1}{2}'' = 1' - 0''$

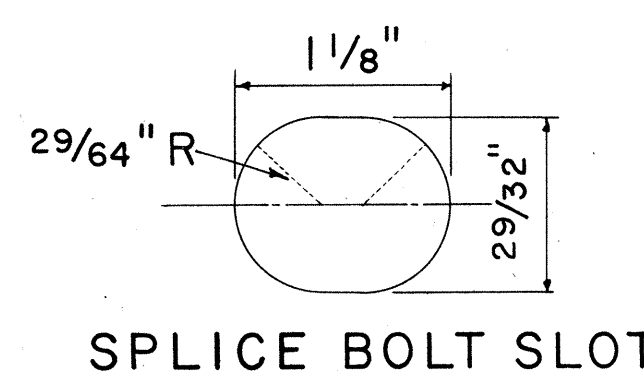
DOUBLE METAL GUARD RAIL ON PRECAST CONCRETE POST WITH WOOD SPACER BLOCKS

Scale: $1\frac{1}{2}'' = 1'-0''$

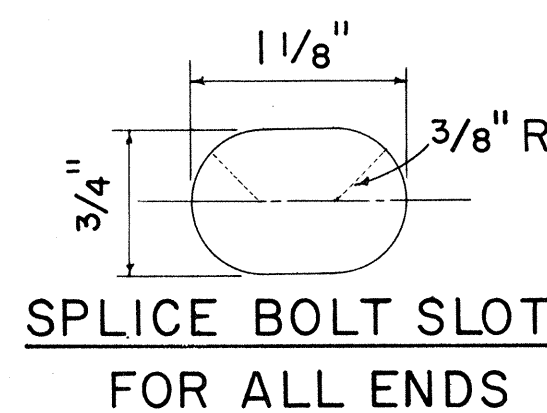


RAIL SPLICE

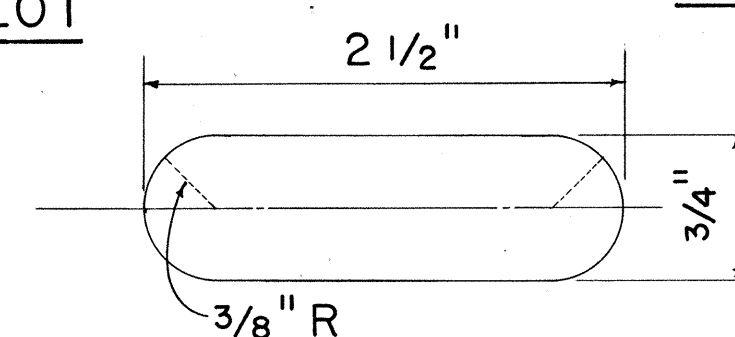
Scale: $3'' = 1' - 0''$



SPLICE BOLT SLOT

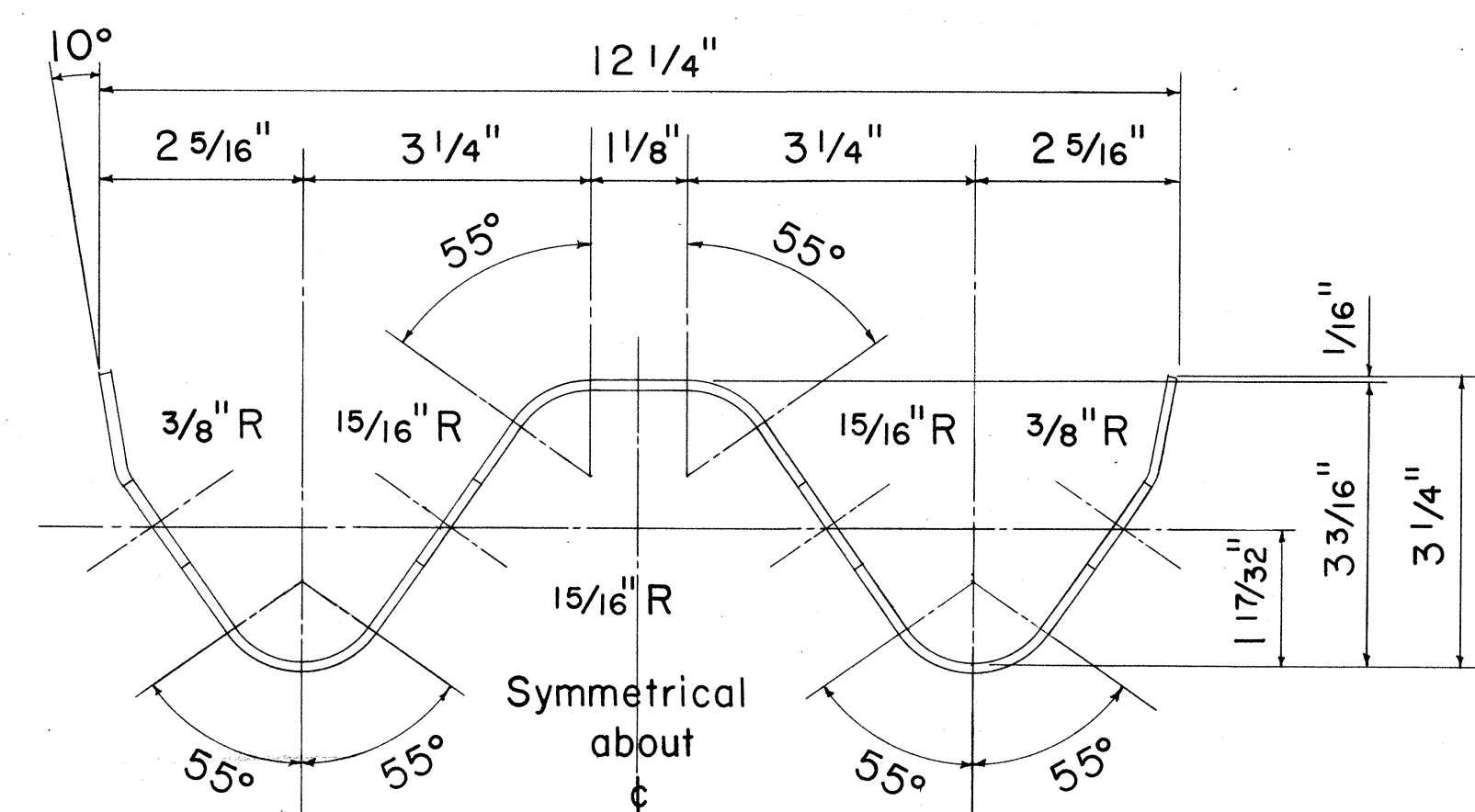


SPLICE BOLT SLOT
FOR ALL ENDS



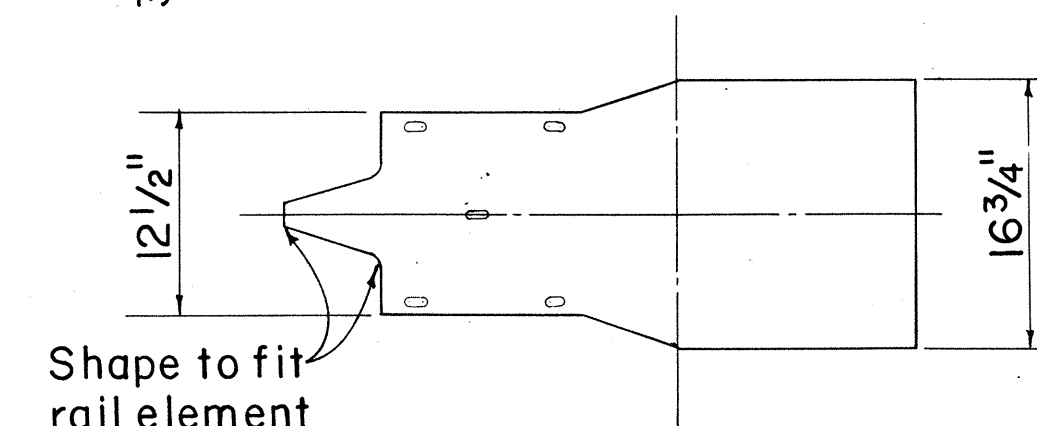
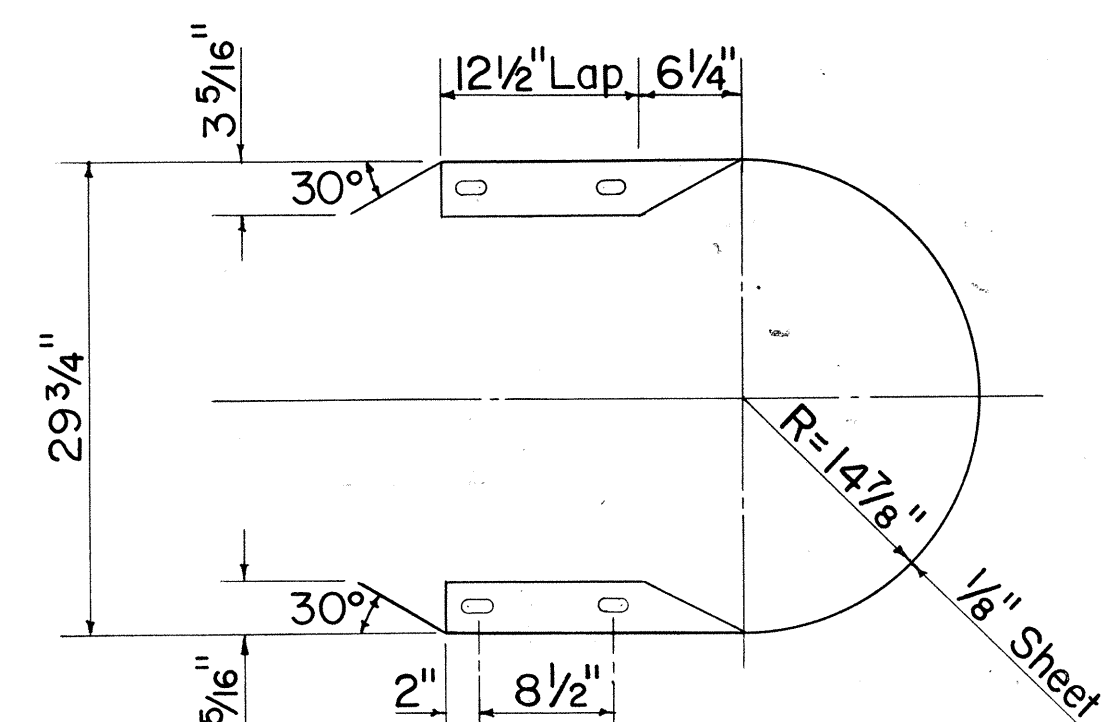
POST BOLT SLOT

Scale : Full Size



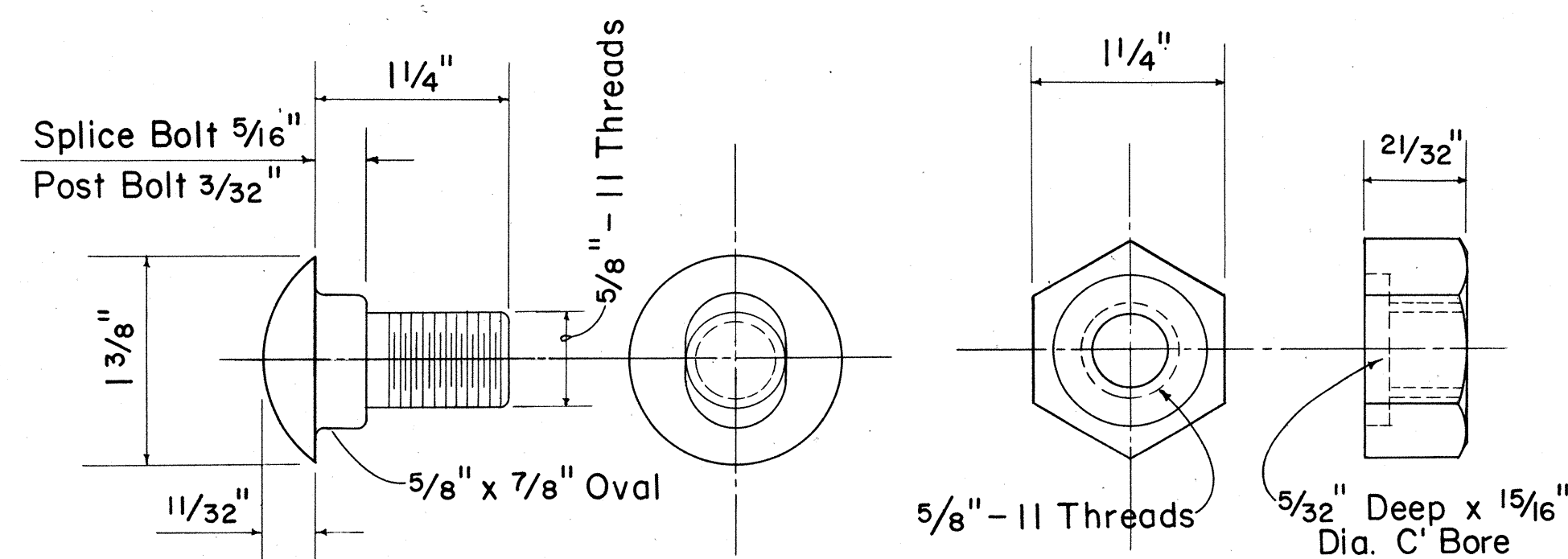
RAIL ELEMENT SECTION

Scale : Half Full Size



MEDIAN END

Scale: $I'' = I' - O''$

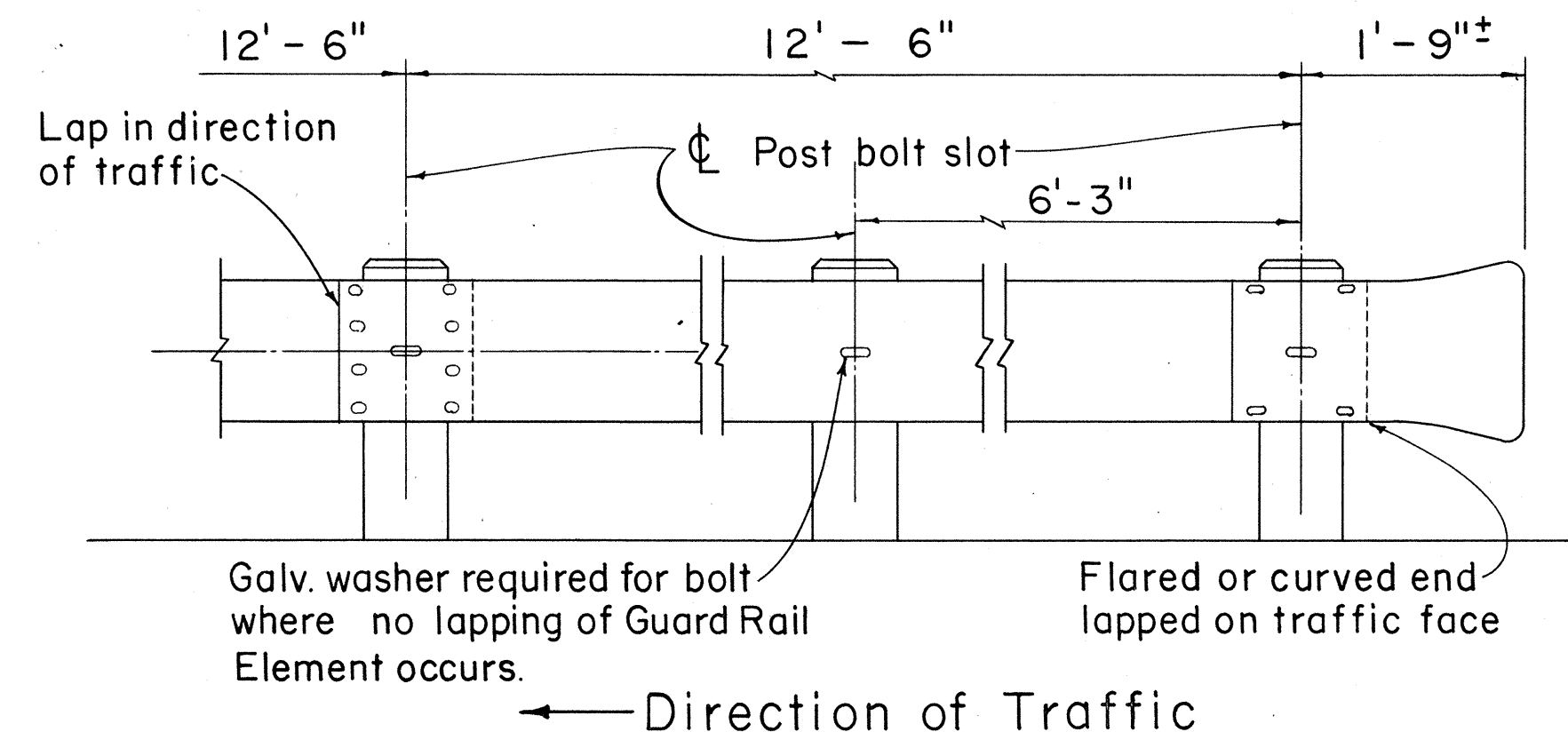


SPLICE BOLT
POST BOLT

Scale: Full Size

HEXAGON NUT

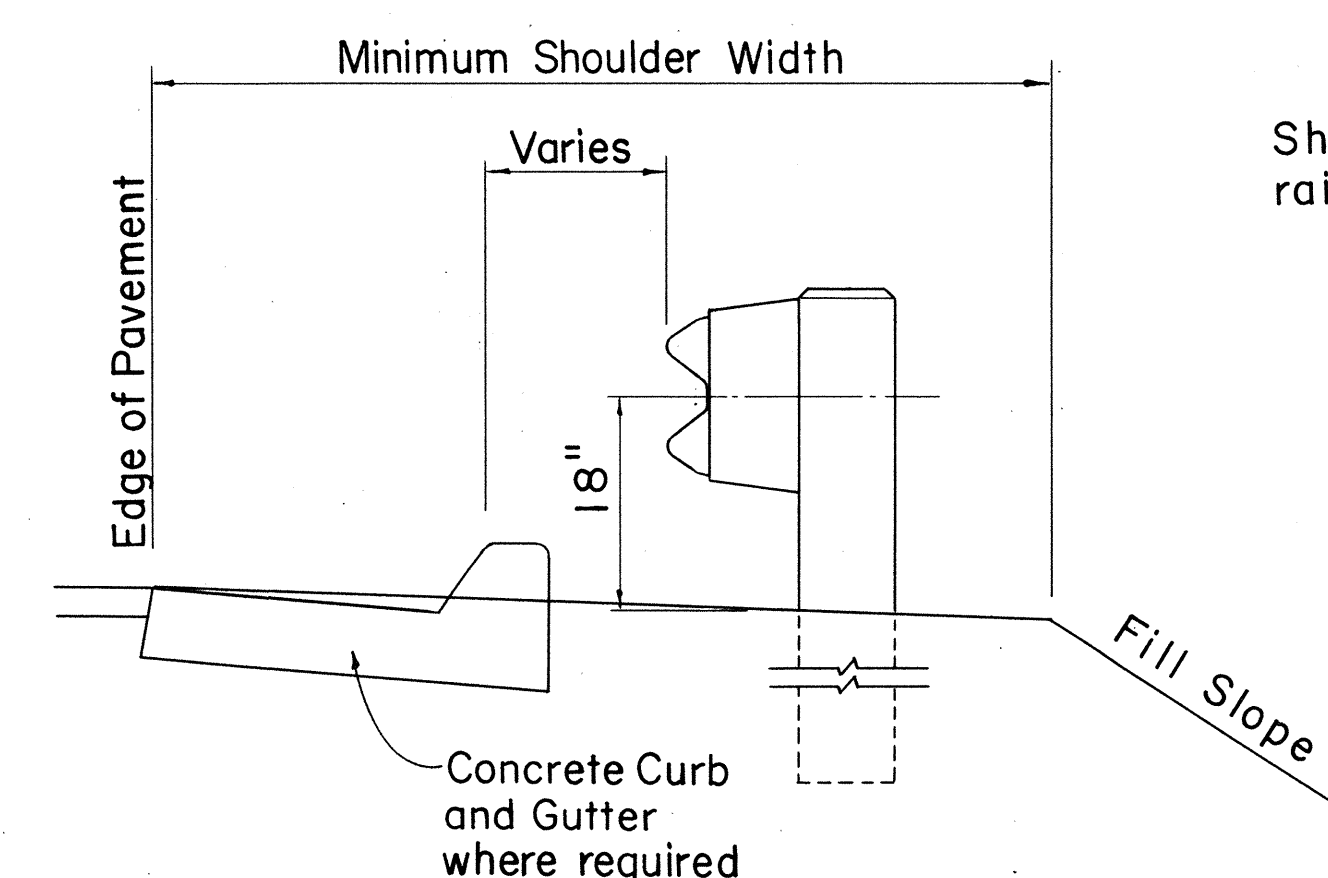
Scale: Full Size



STANDARD METAL GUARD RAIL ELEMENT

Scale: $\frac{3}{4}" = 1' - 0"$

NOTE: Guard Rail Element for posts spaced other than 6'-3" o. c. shall be cut and fabricated by the Contractor at no extra cost.



TYPICAL ELEVATION

Scale: $\frac{3}{4}" = 1'-0"$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

METAL GUARD RAIL

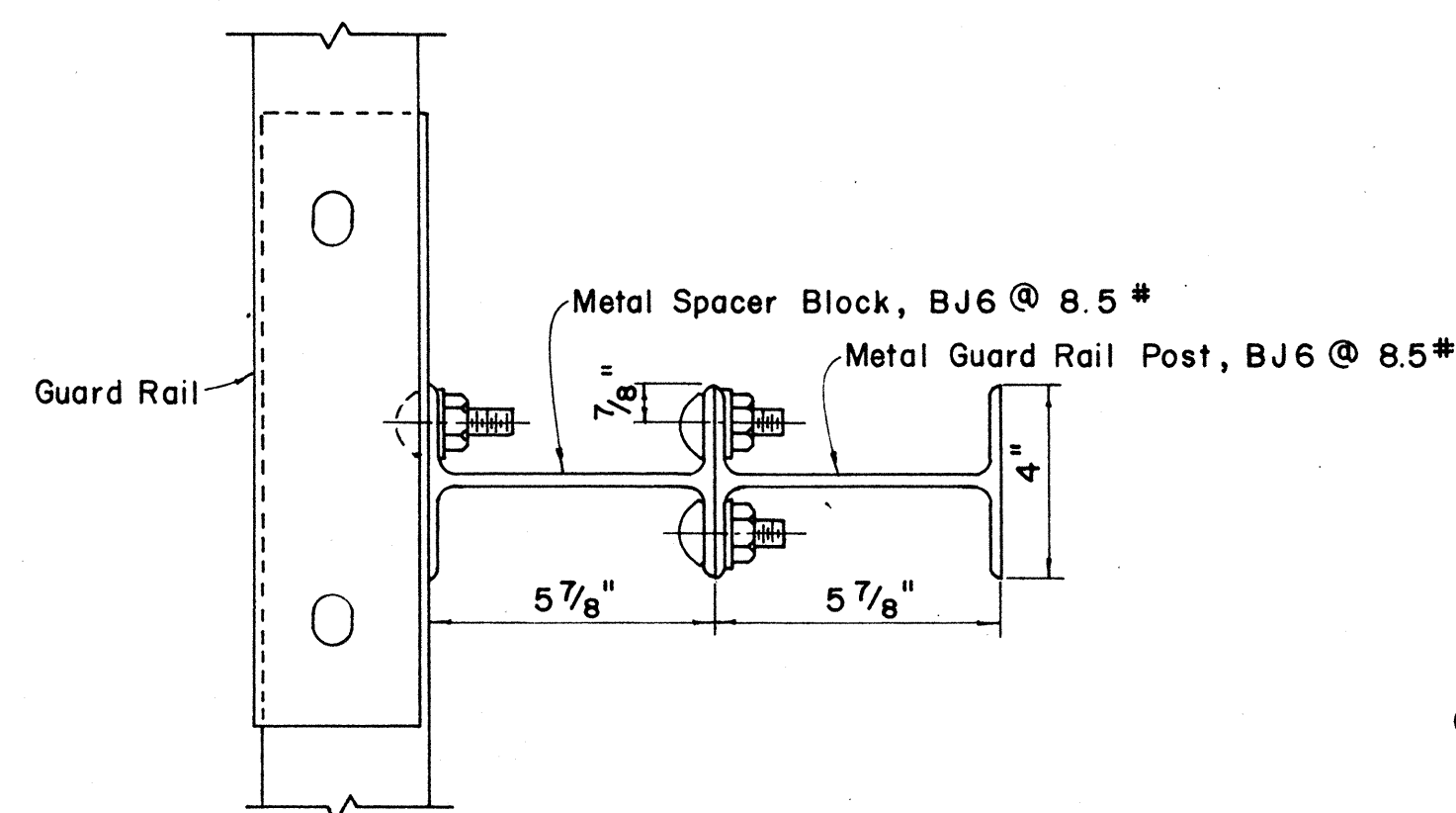
Scales: As Noted.

Date: Feb. 1966

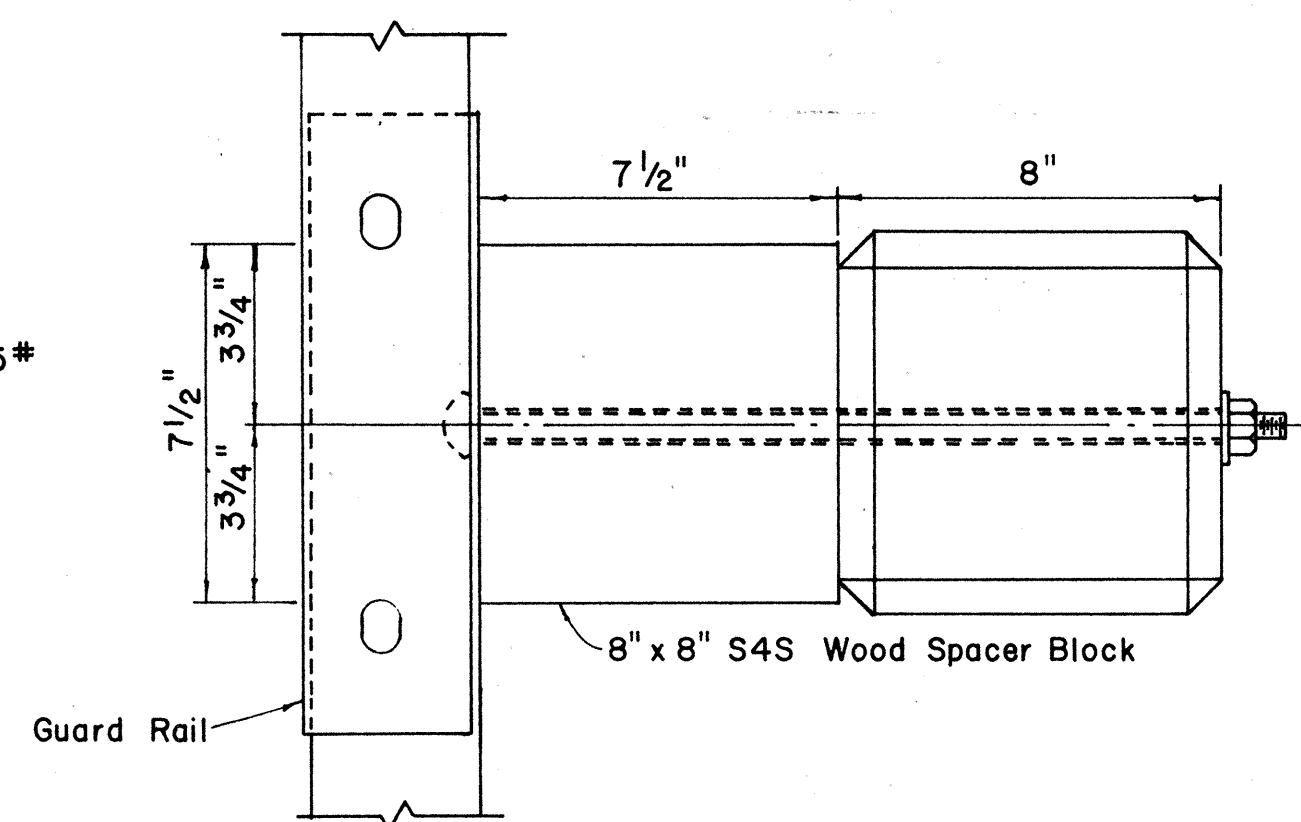
SHEET No. 2 OF 3 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY.....	DATE.....
NOTE BOOK	DRAWN BY.....	α
	TRACED BY.....	α
	DESIGNED BY.....	α
	QUANTITIES BY.....	α
	CHECKED BY.....	α
No.		

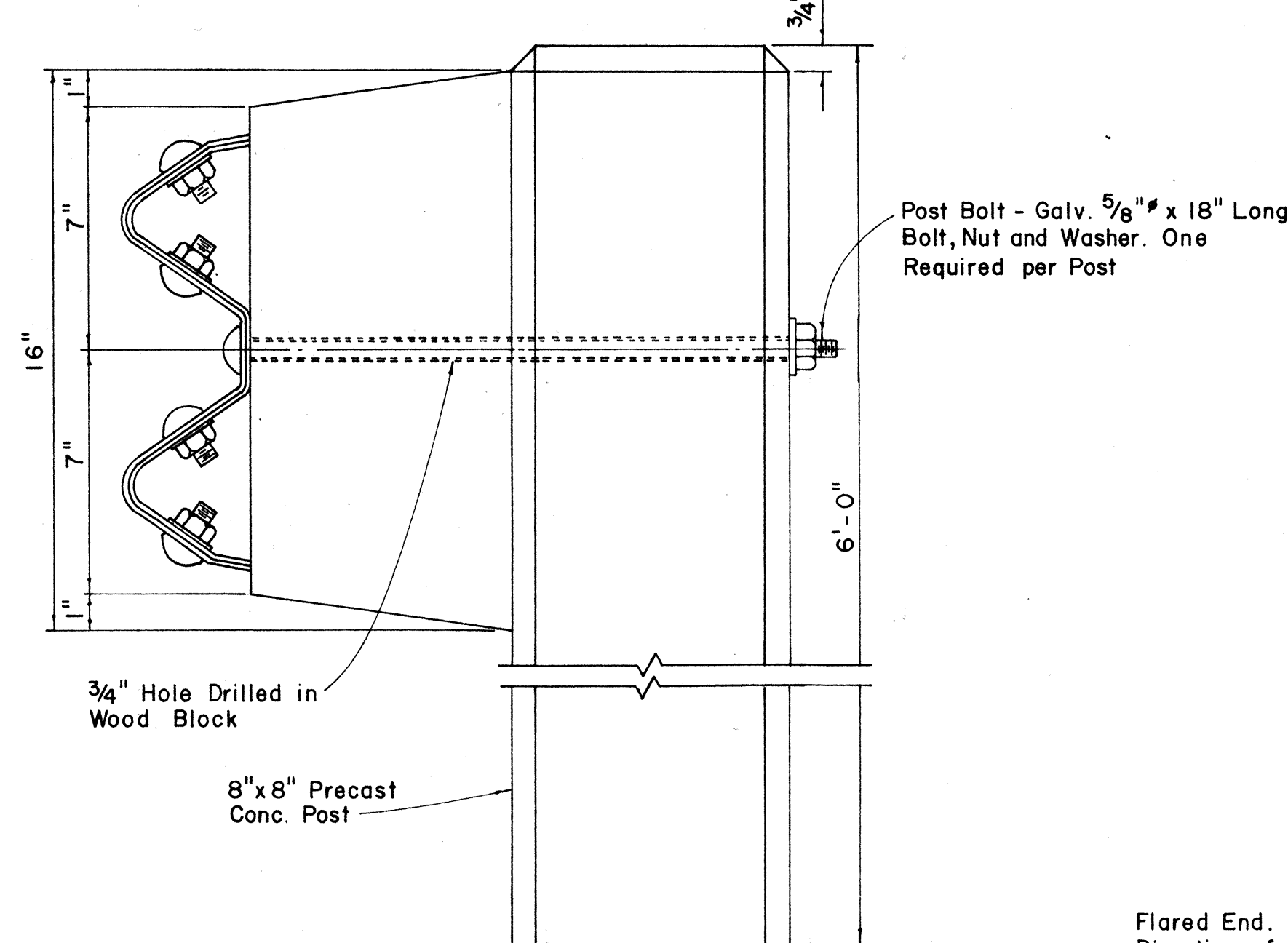
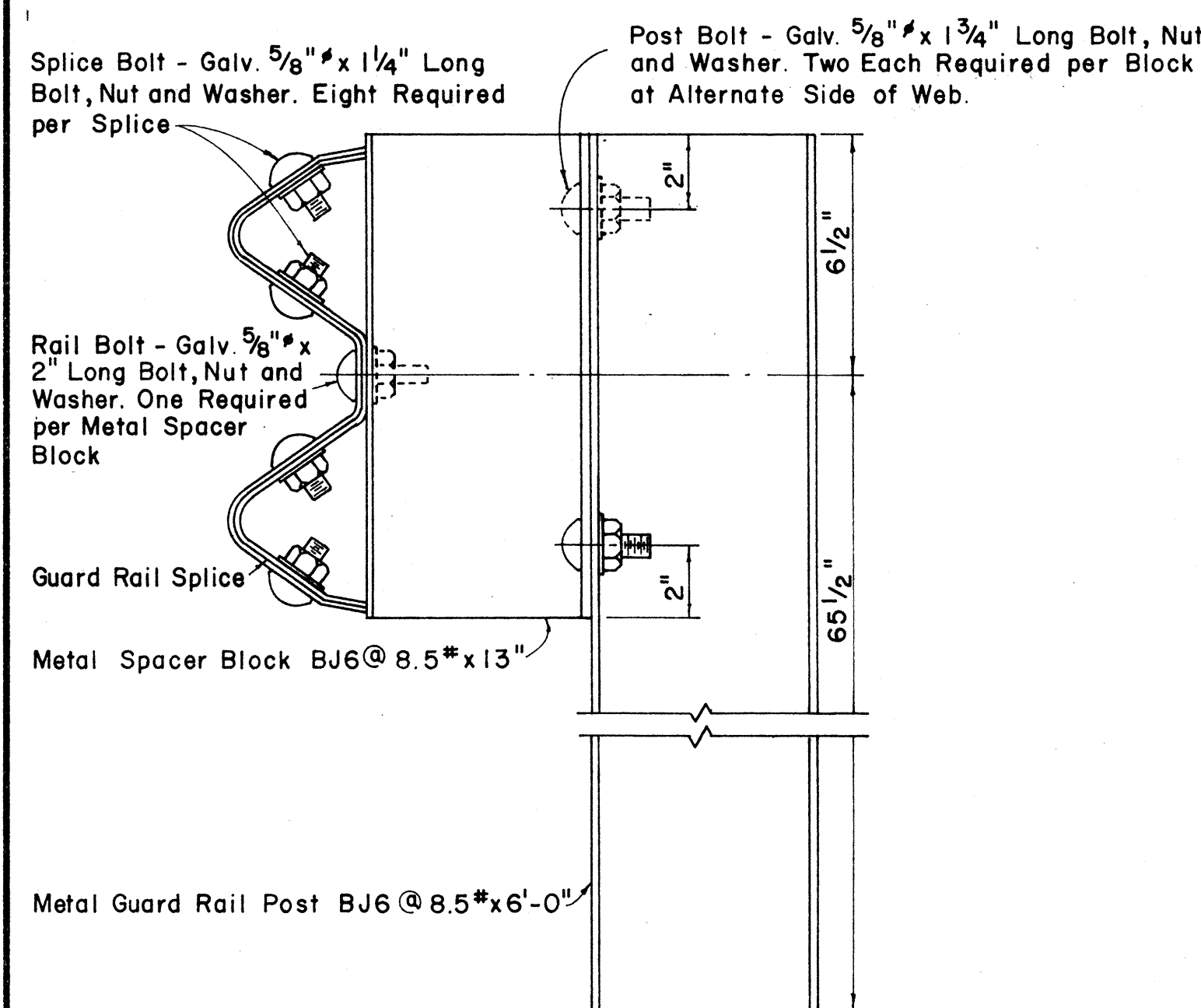
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-075(13)	1966	12	42



PLAN



PLAN

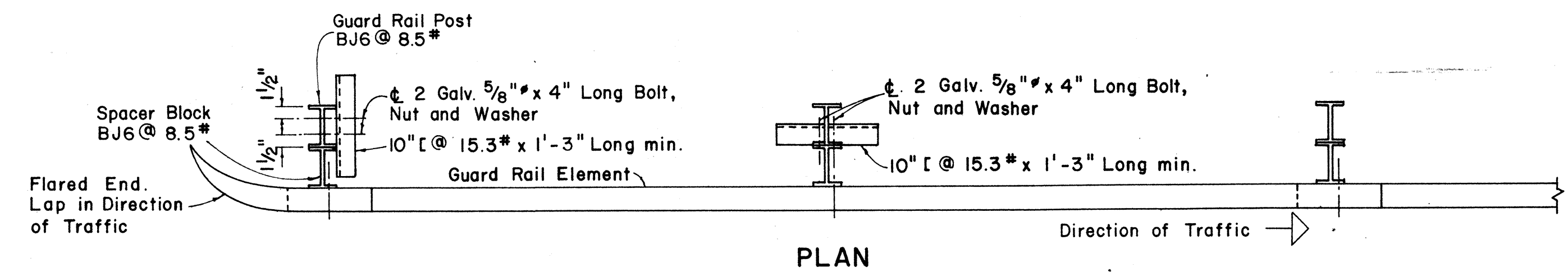


NOTE:
Wood Blocks shall be Douglas Fir, "Construction Grade - Posts and Timbers," 1200c Painted with Creosote Conforming to the Requirements of AASHO Designation: M-133

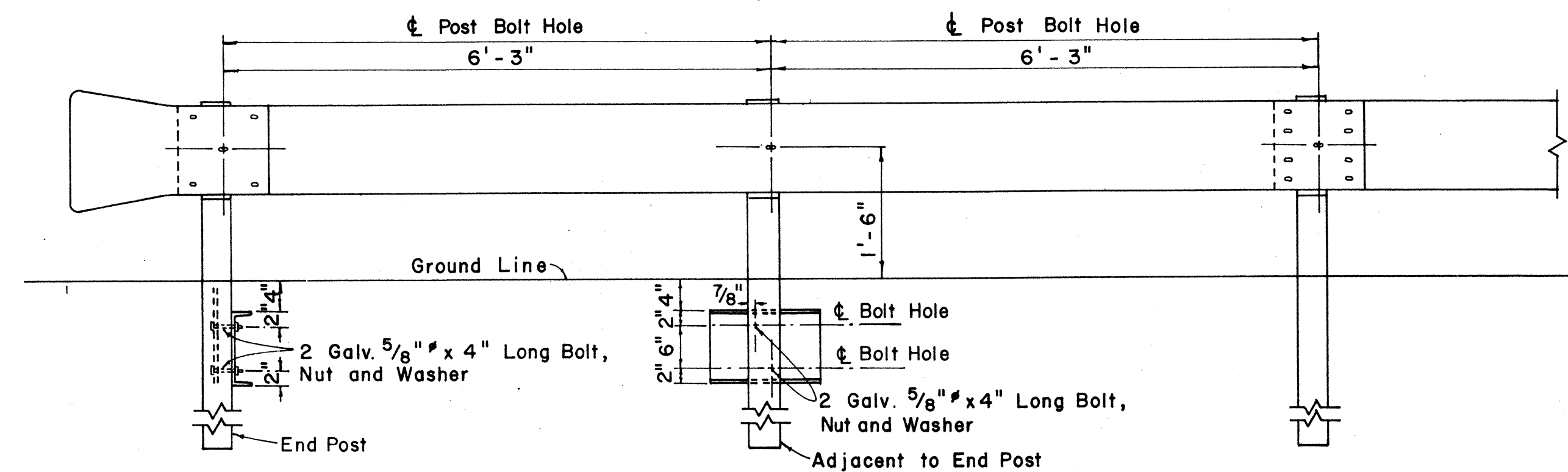
SINGLE GUARD RAIL ON METAL POST
WITH METAL SPACER BLOCK
Scale: 3" = 1' - 0"

SINGLE GUARD RAIL ON PRECAST
CONCRETE POST WITH WOOD SPACER BLOCK
Scale: 3" = 1' - 0"

DETAILS FOR SINGLE GUARD RAIL Scale: As Shown

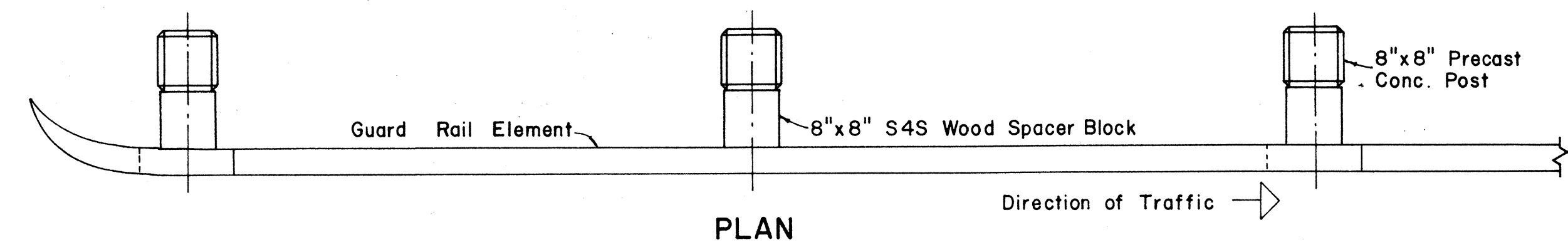


PLAN

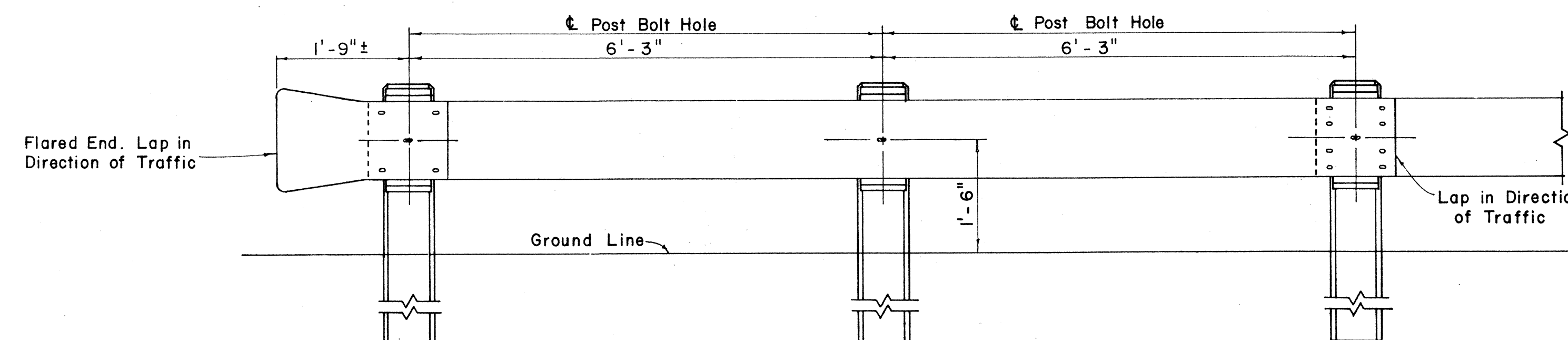


ELEVATION

METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK
Scale: 3/4" = 1' - 0"



PLAN



ELEVATION

METAL GUARD RAIL ON CONCRETE POST WITH WOOD SPACER BLOCK
Scale: 3/4" = 1' - 0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
METAL GUARD RAIL

Scales: As Noted Date: Feb. 1966

SHEET No. 3 OF 3 SHEETS