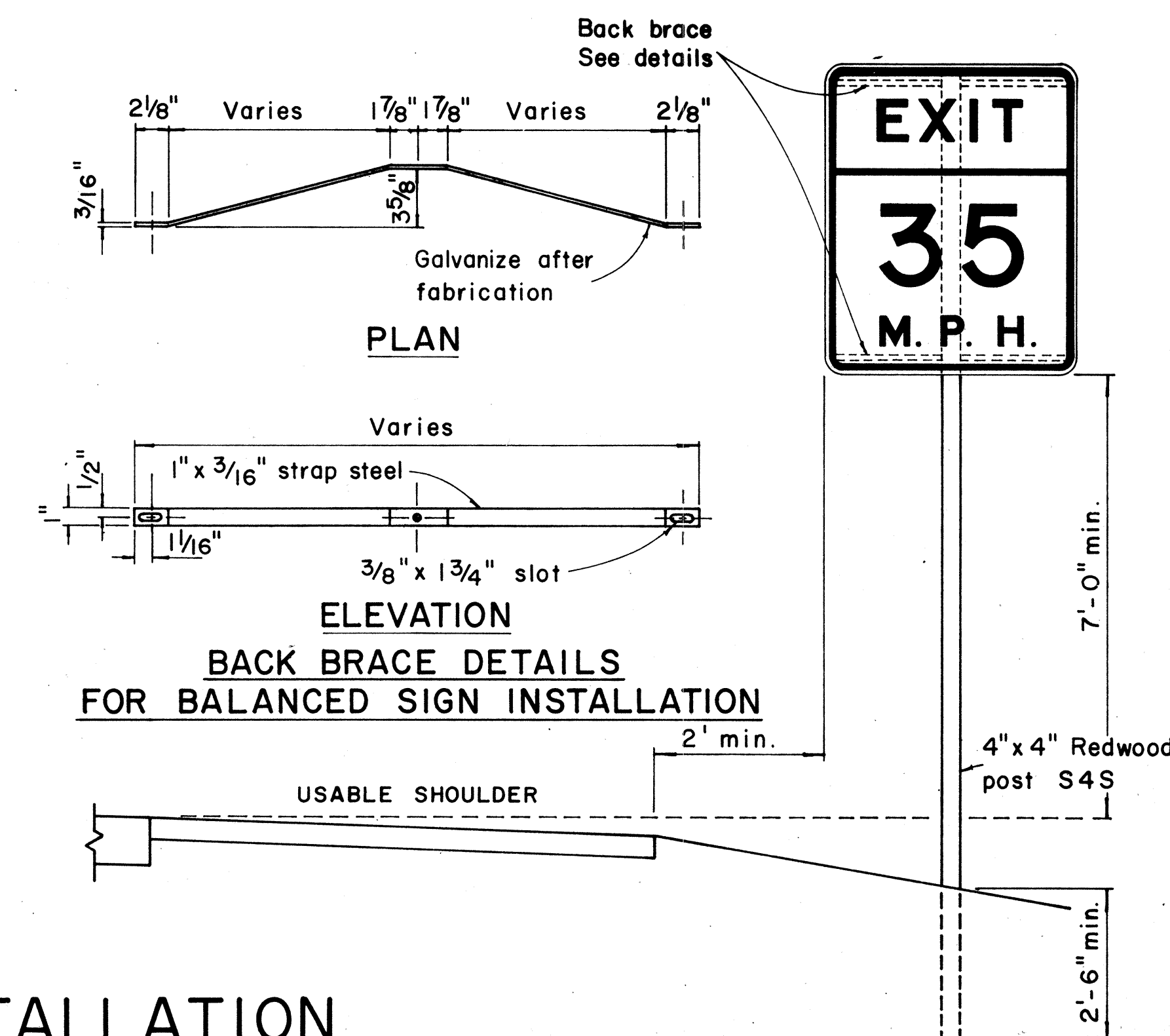
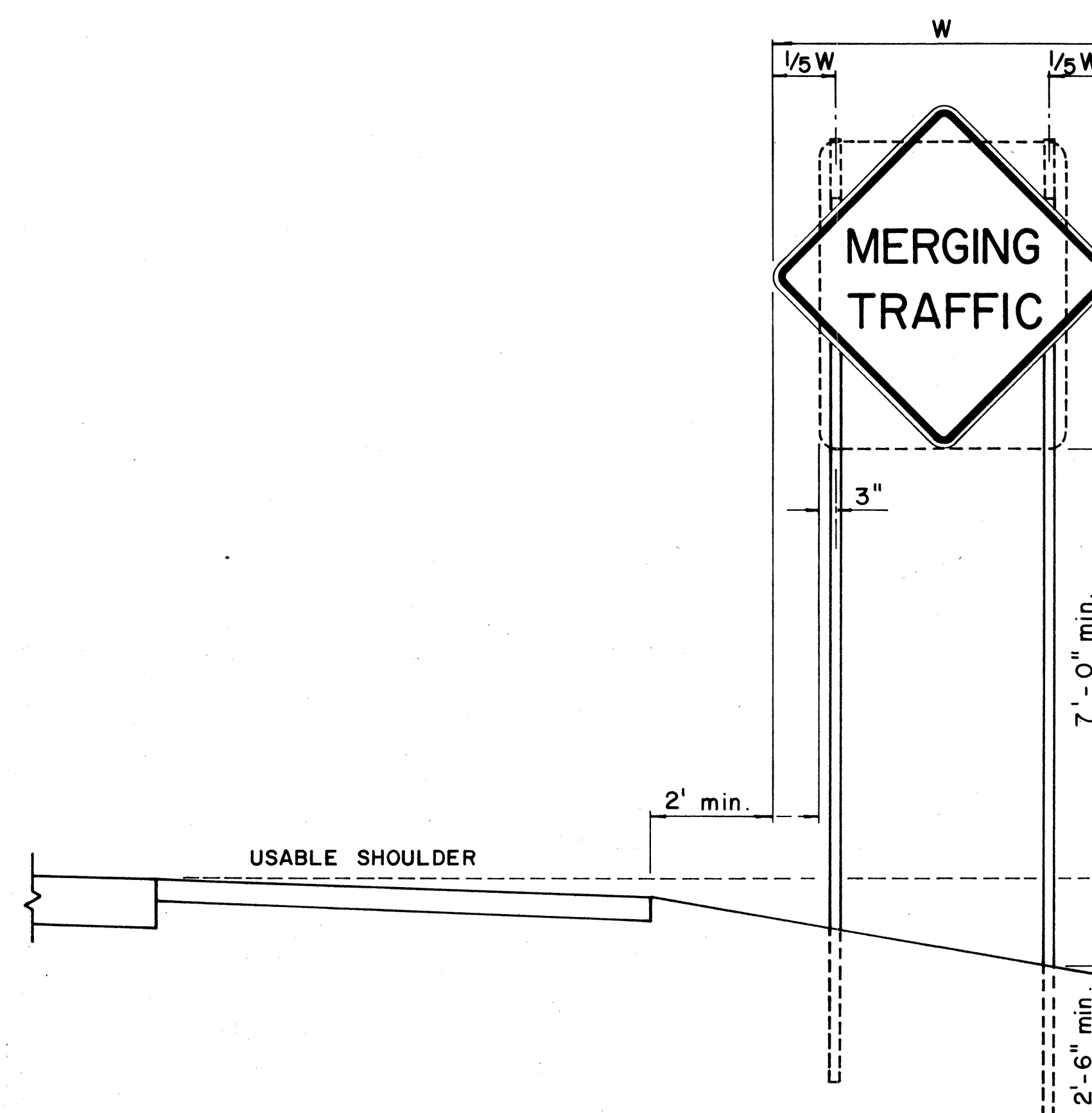
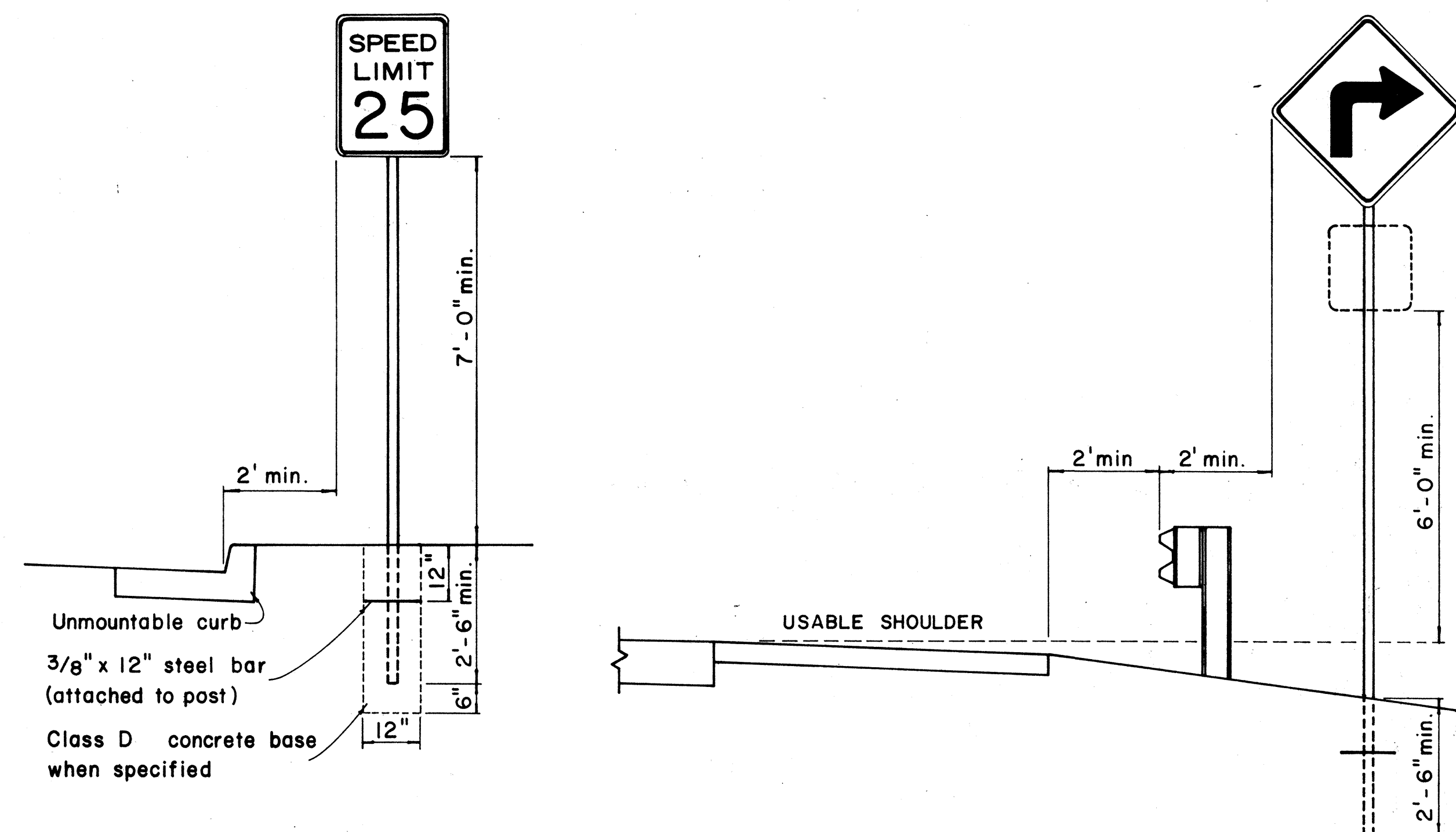
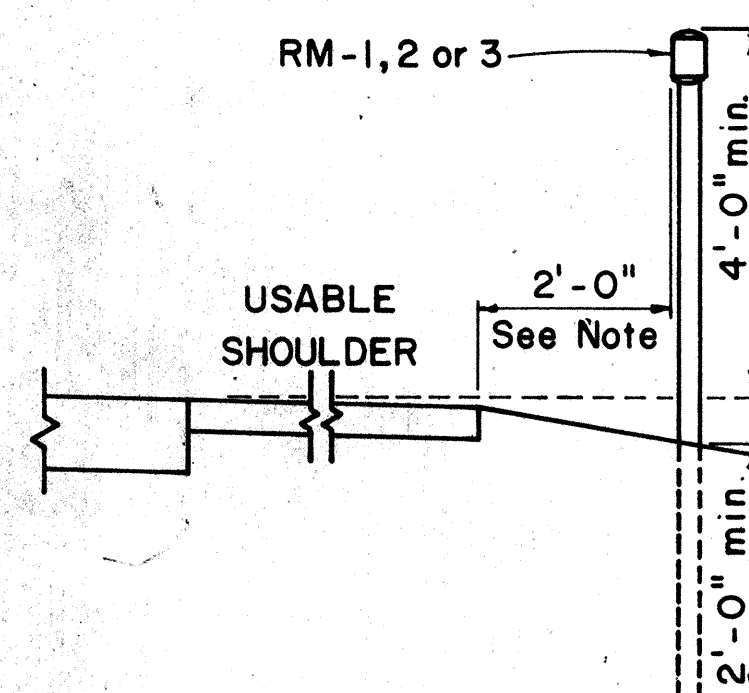


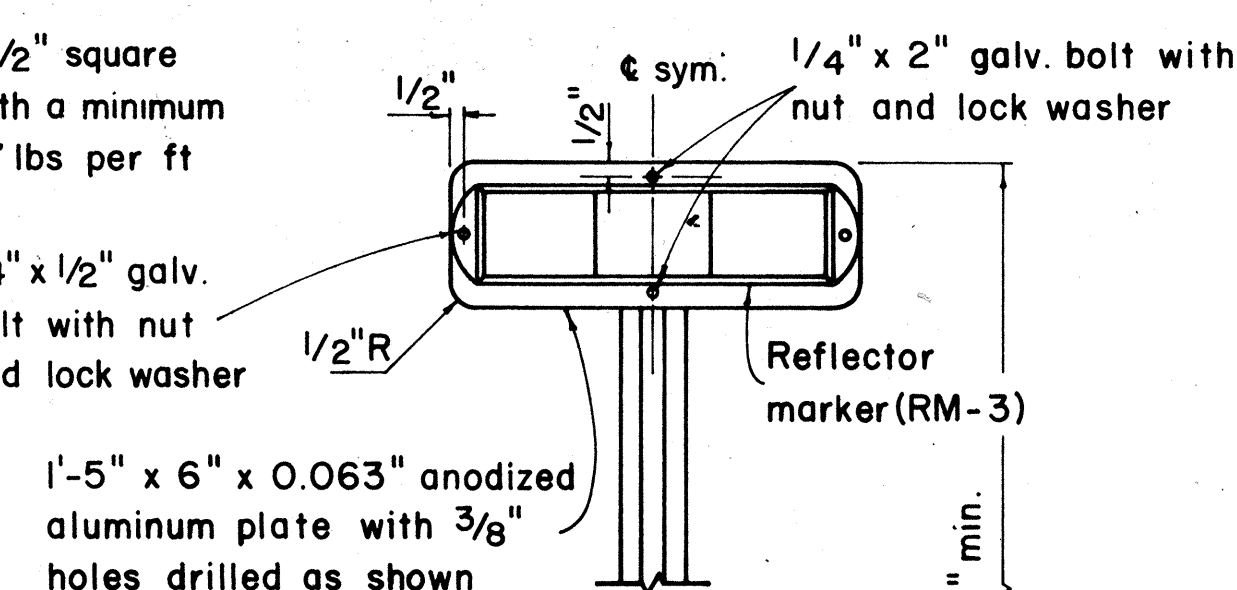
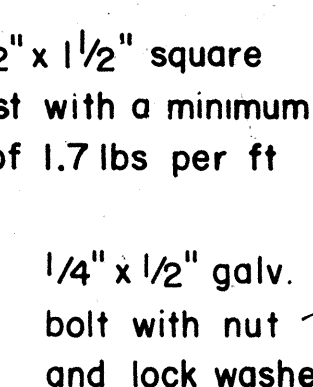
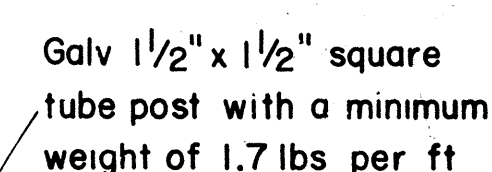
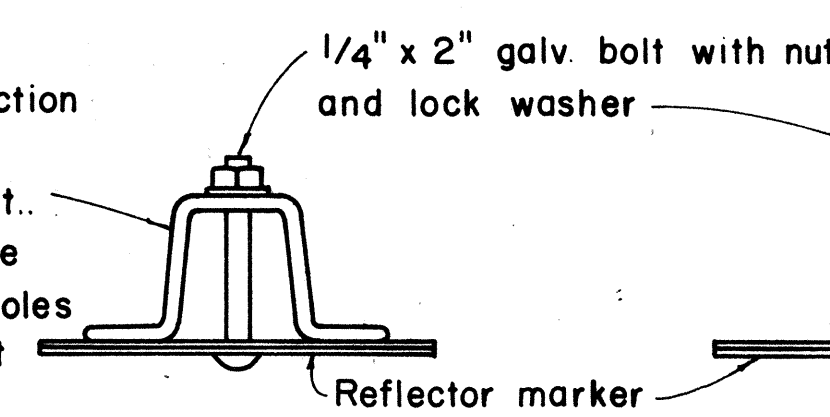
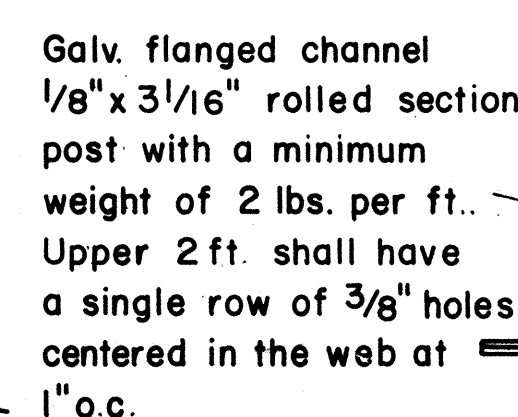
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-0275	1976	3	9



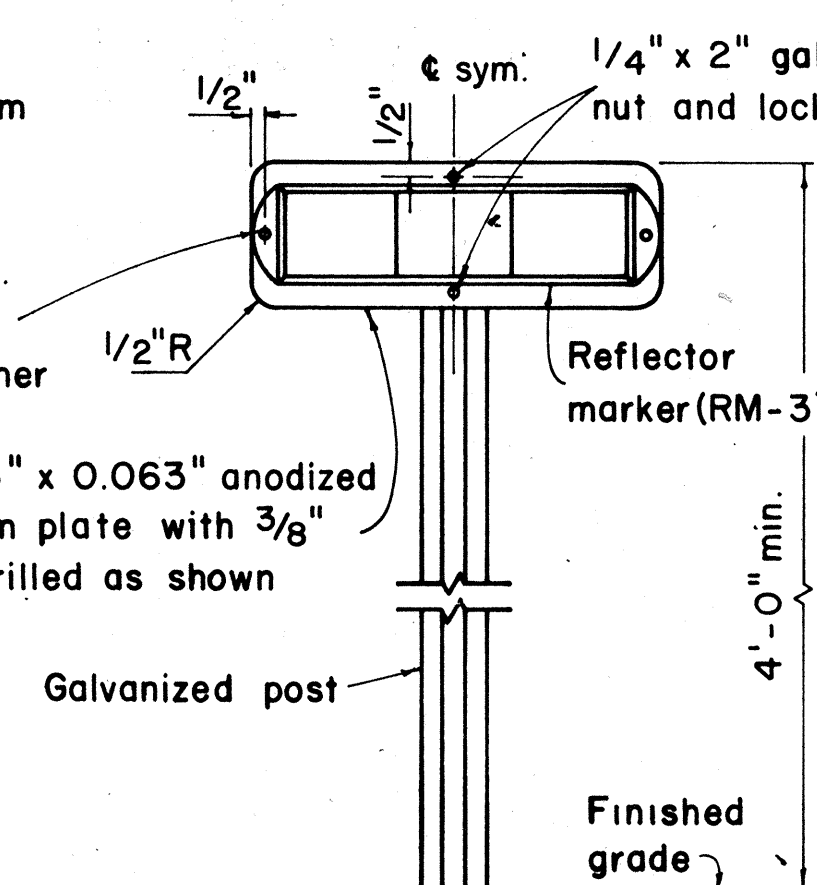
HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATION



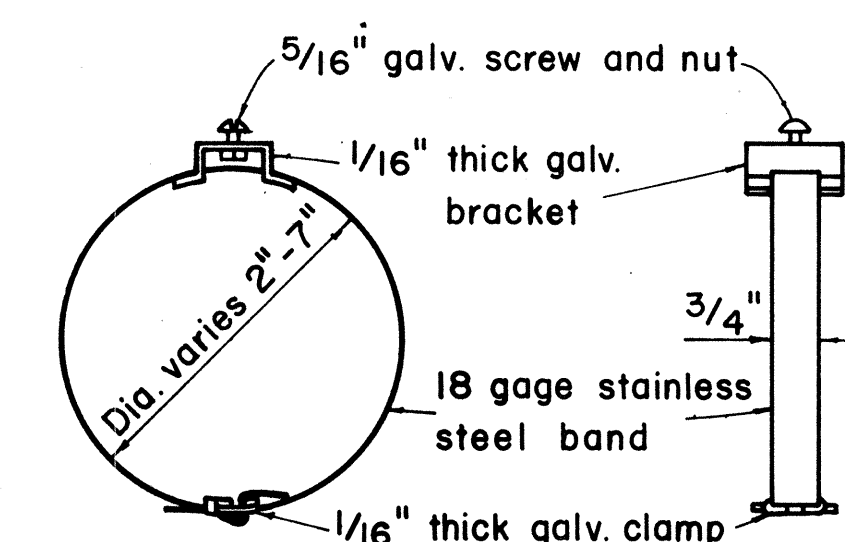
ROAD DELINEATOR



TYPICAL SECTION OF ROAD DELINEATOR

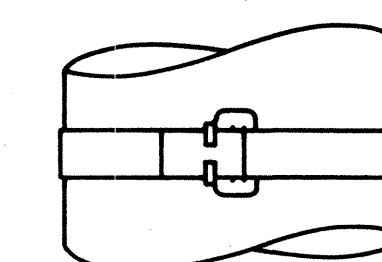


TYPICAL DETAIL
HORIZONTAL REFLECTOR MARKER
RM - 3H



PLAN

SIDE VIEW



FRONT VIEW

TYPICAL BAND BRACKET FOR MOUNTING TRAFFIC SIGNS

- GENERAL NOTES:

1. Sign posts shall be 2" galv. standard pipe or 2" x 2" galv. sq. tube post.
2. Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two 2" galv. standard pipe or two 2" x 2" galv. sq. tube post or 4" x 4" redwood post S4S.
3. Signs shall be attached to post with 5/16" galv. bolts with nuts and 7/8" x 0.06 stainless steel washers with neoprene rubber gasket.
4. Sign posts shall extend 3 1/2" above sign where required for City and County street name signs.
5. Reflector markers, RM-1, 2, 3 shall be glass sphere reflector markers with 4" x 5" reflector units (as shown) or plastic prismatic reflector markers with 3" diameter reflector units.
6. Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
7. (R) or (L) indicates right or left and shall be as shown on the plans.

APPROVAL RECOMMENDED:

Eiichi Tanaka
TRAFFIC ENGINEER

APPROVED:

ASSISTANT CHIEF ENGINEERING

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

STANDARD DETAILS

MISCELLANEOUS SIGN DETAILS

Not to scale

March, 1968

SHEET No. 1 OF 6 SHEETS DT 100

NO	REVISION	APPROVED BY	DATE

ASSISTANT CHIEF, ENGINEERING

DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
MISCELLANEOUS SIGN DETAILS

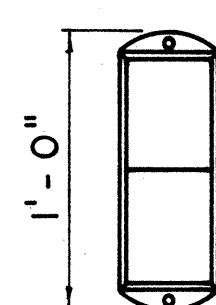
Not to scale

March, 1968

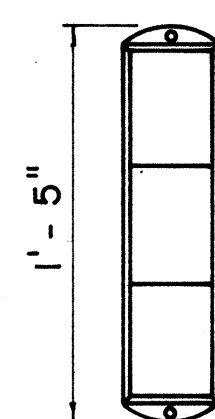
ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

Technical drawing of a rectangular object with dimensions: 7" height, 1 1/2" width, and 4 1/8" width.

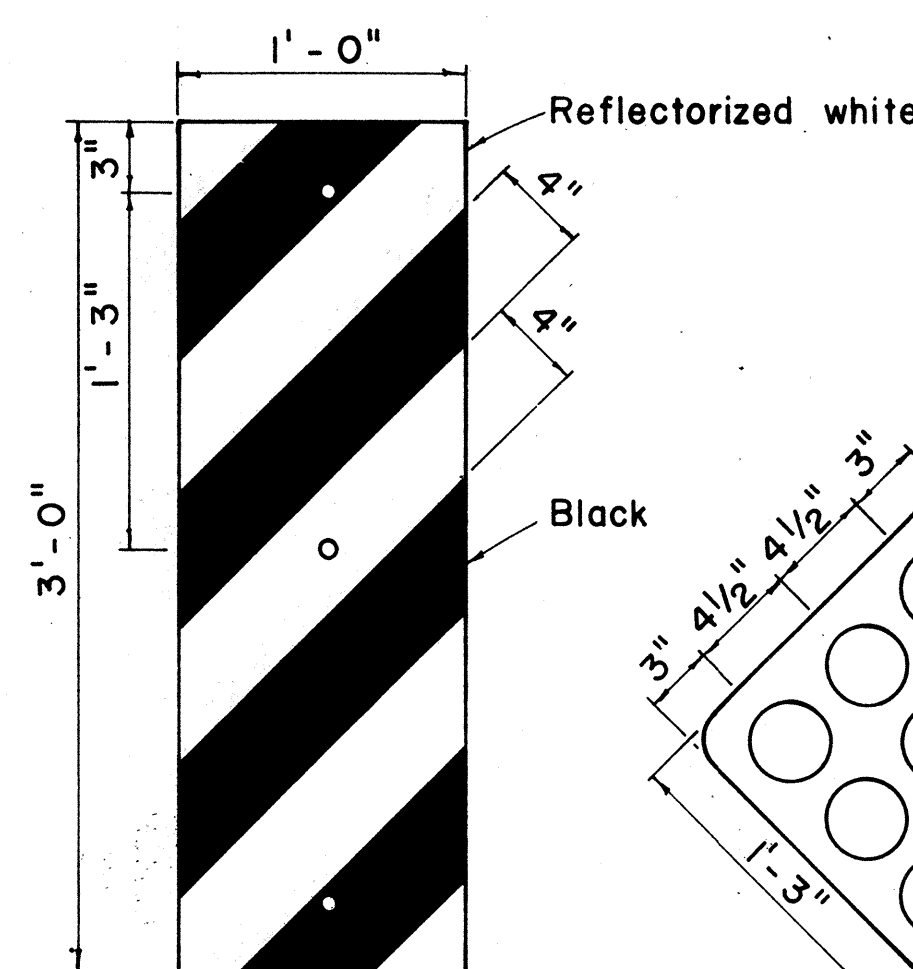
RM-1
(CLEAR)



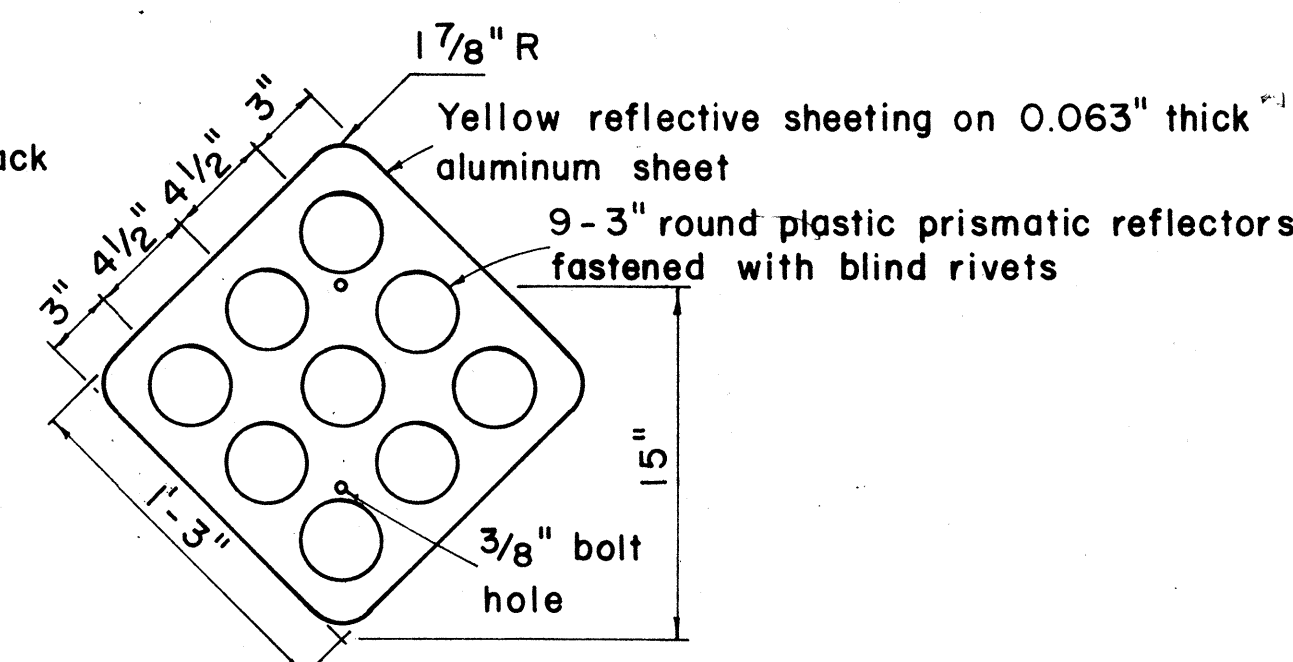
RM - 2
(AMBER)



RM-3
(AMBER)



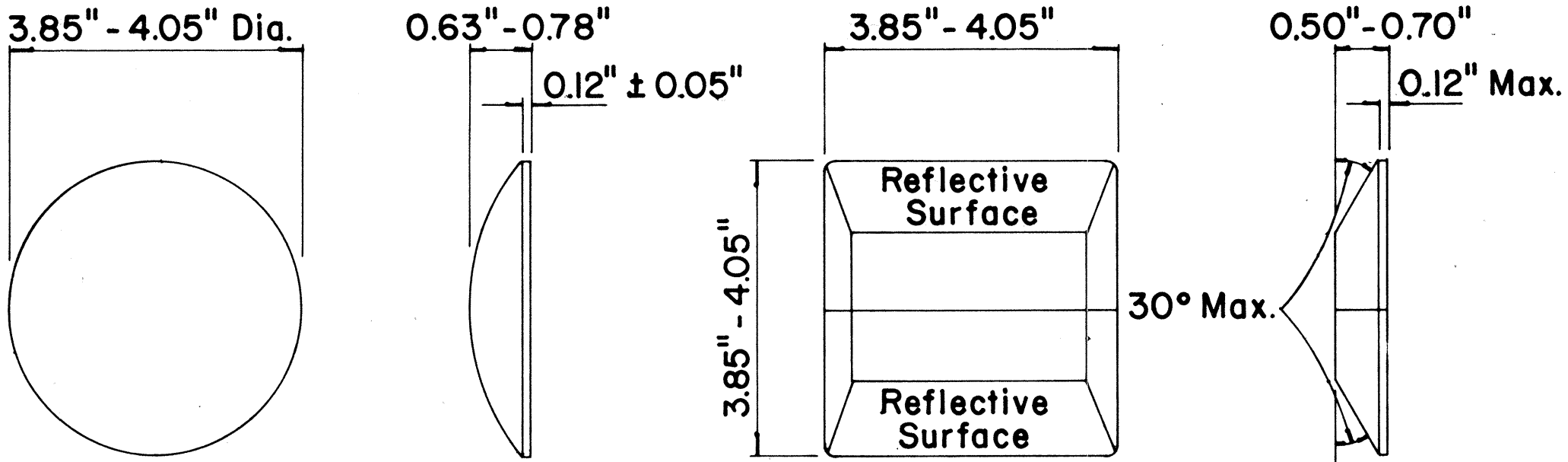
RM - 4 (R)



RM - 9

REFLECTOR MARKERS

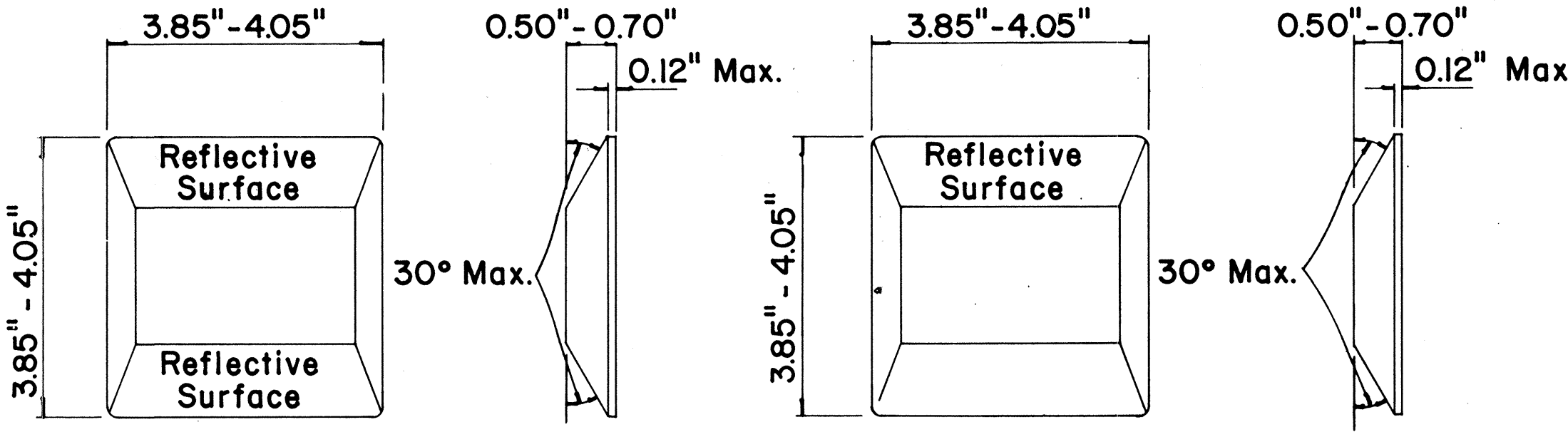
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-75	1976	4	7



TYPE A
NON-REFLECTIVE WHITE MARKER

TYPE C
RED-CLEAR REFLECTIVE MARKER

TYPE J
NON-REFLECTIVE YELLOW MARKER



TYPE D
TWO-WAY YELLOW REFLECTIVE MARKER

TYPE H
ONE-WAY YELLOW REFLECTIVE MARKER

GENERAL NOTES

1. Painted stripes to be done by Contractor unless otherwise specified.

LEGEND

- Type A
- Type C
- Type D
- Type H
- Type J

APPROVAL RECOMMENDED:
Eiichi Tanaka 11/18/71
TRAFFIC ENGINEER DATE

APPROVED:
Shigeru Sato 11/18/71
ASSISTANT CHIEF, ENGINEERING DATE

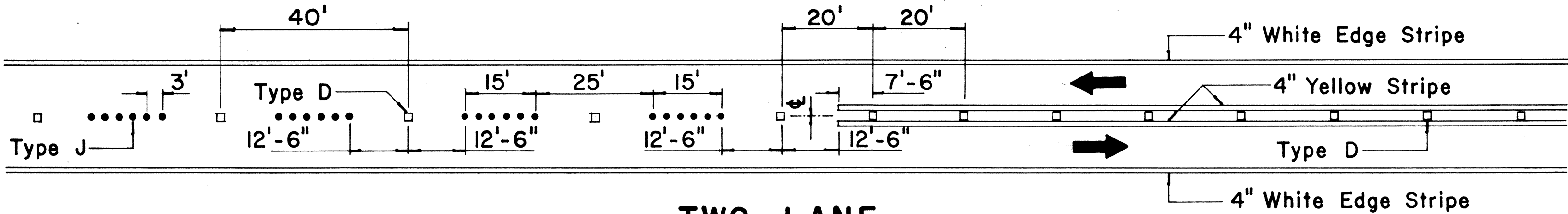
No.	REVISION	APPROVED BY	DATE
1	Add reflector marker in each line gap.	H.	10-21-72
2	Revised General Notes.	H.	10-21-72
3	Change 4" white edge stripe to 4" solid yellow edge stripe to left edge of a travel path and Add Type H Reflector Marker	H.	5-22-74

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

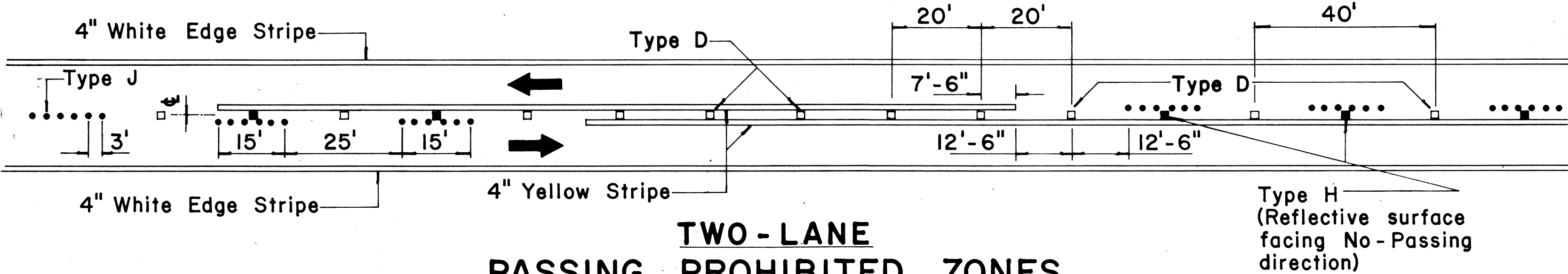
STANDARD DETAILS
RAISED PAVEMENT MARKERS

Not to Scale
October 1971
SHEET No. 2 OF 6 SHEETS DT 300

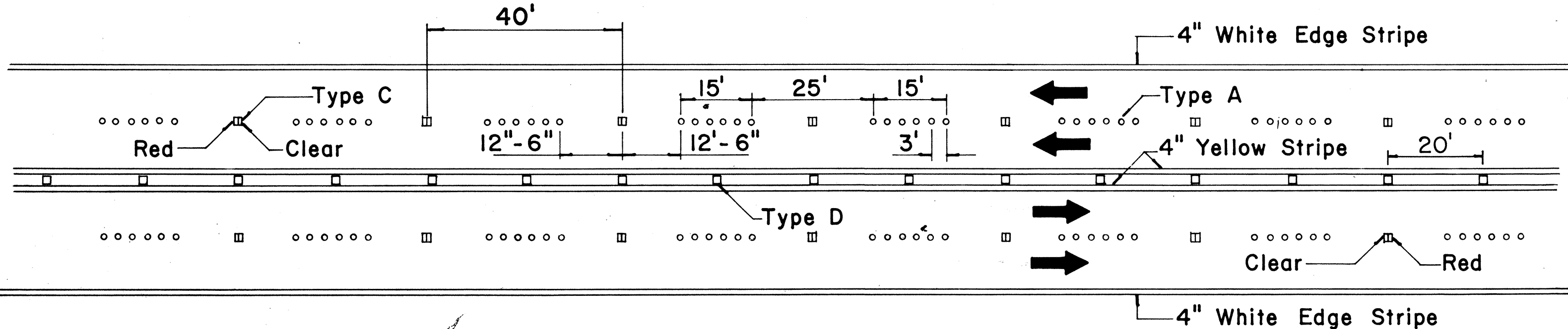
TWO - LANE



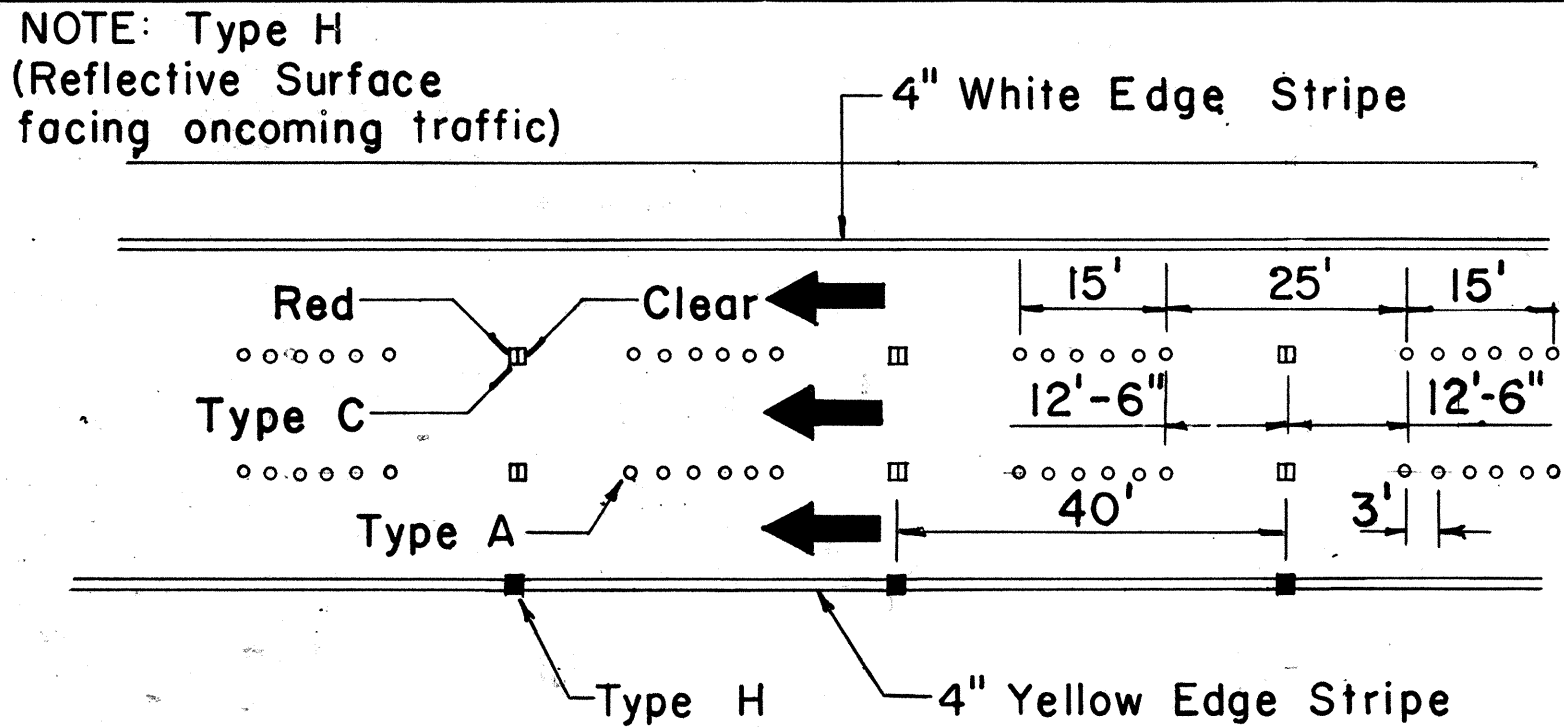
TWO - LANE
PASSING PERMITTED AND PASSING PROHIBITED



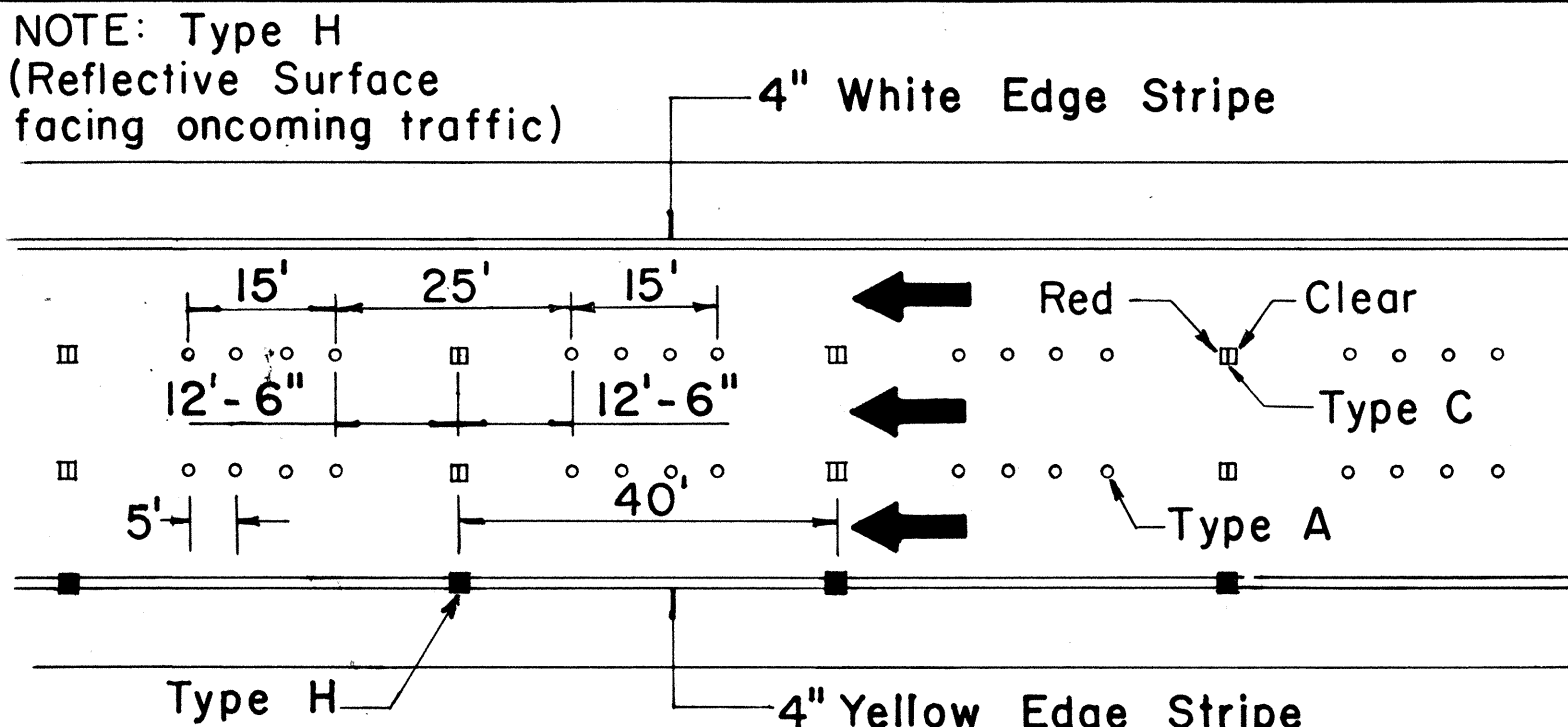
TWO - LANE
PASSING PROHIBITED ZONES



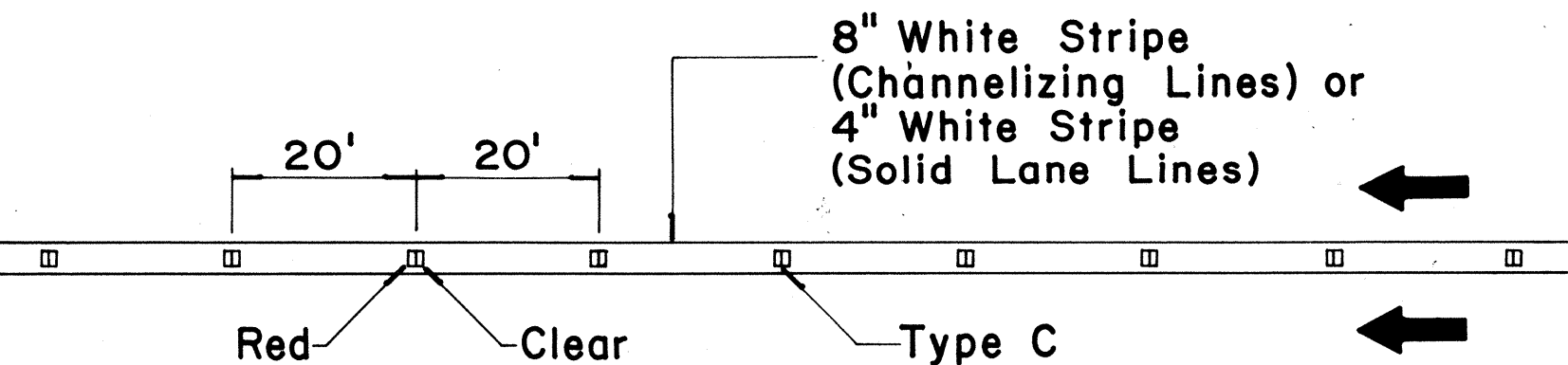
MULTI - LANE
LANE LINES AND CENTER LINE



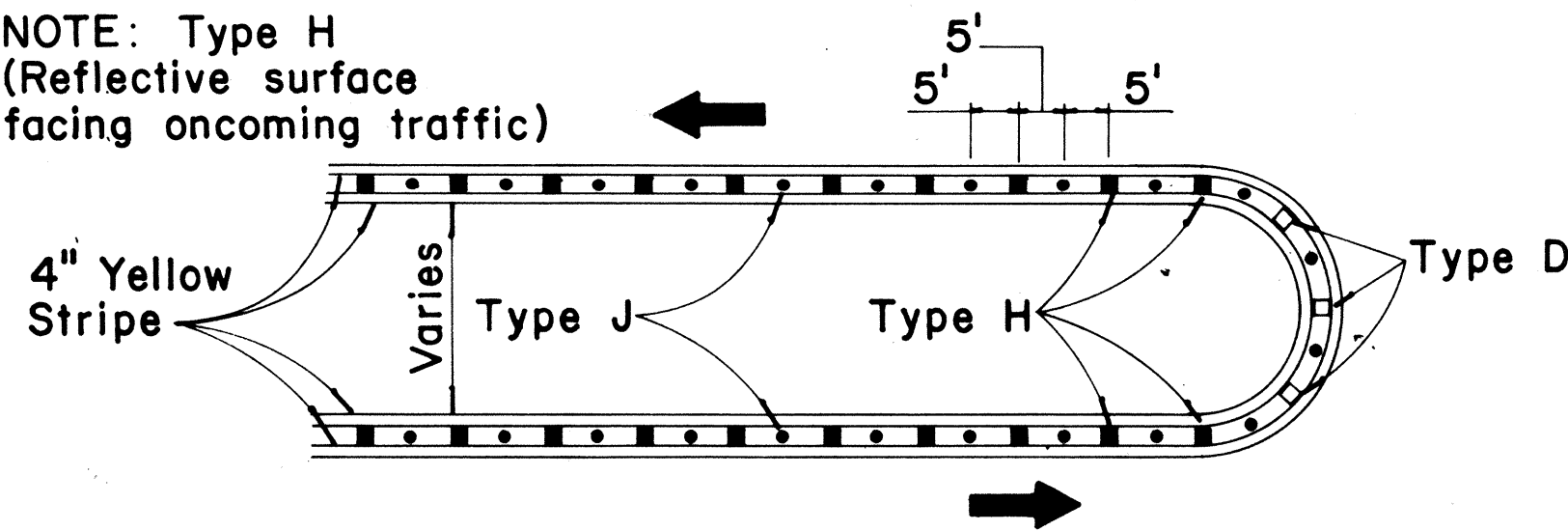
DIVIDED HIGHWAY LANE LINES



FREEWAY LANE LINES



CHANNELIZING LINES
OR SOLID LANE LINES



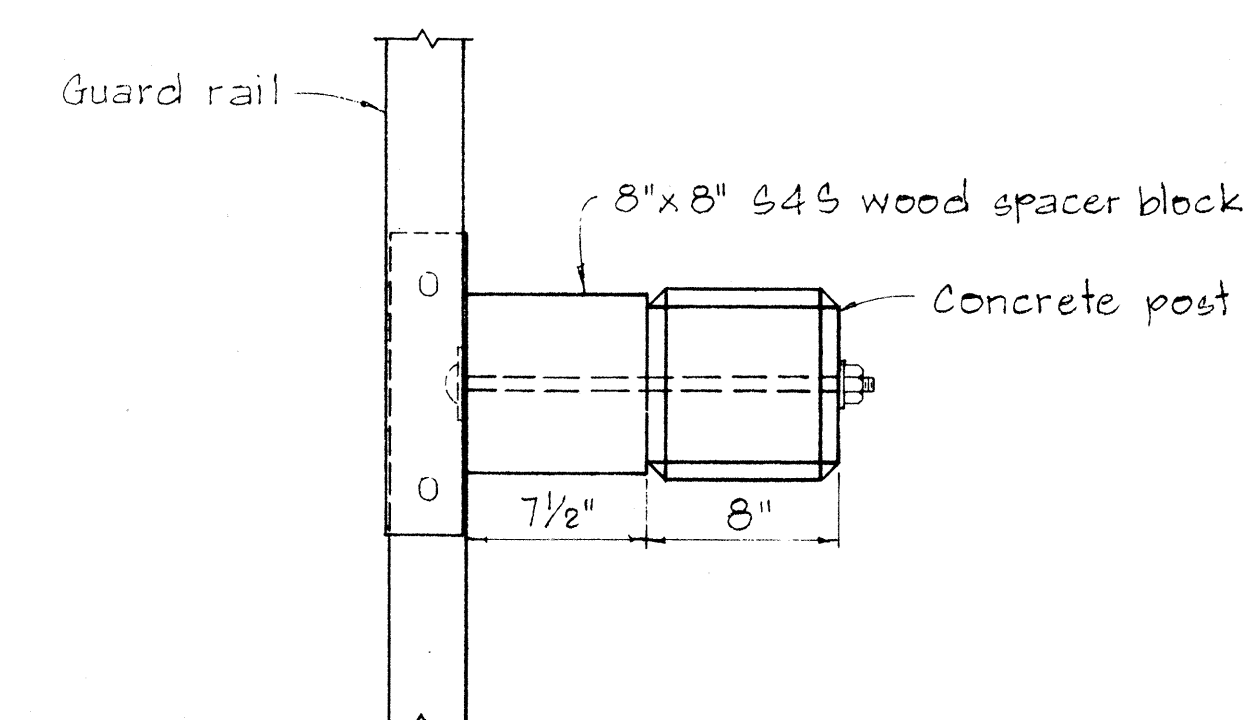
MEDIAN NOSE DELINEATION

DIVIDED HIGHWAY
AND
FREEWAY

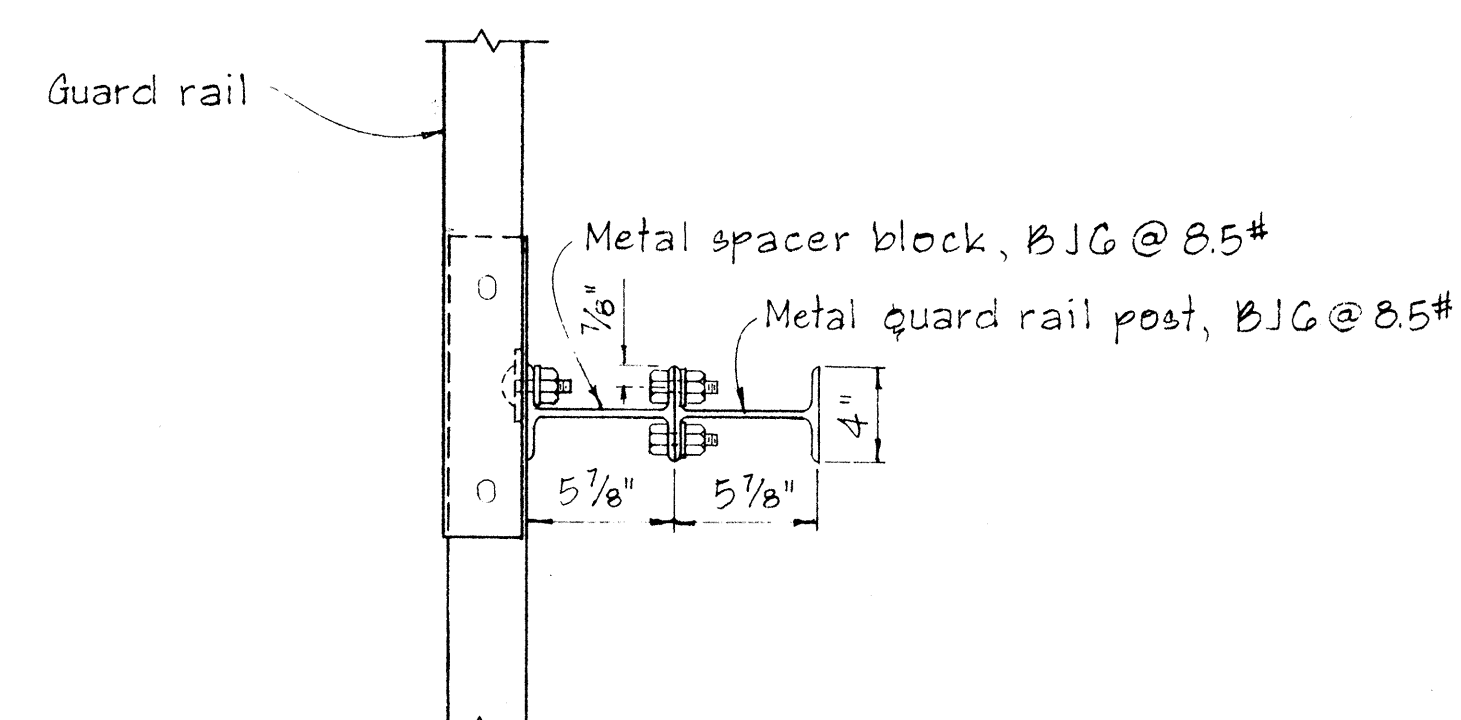
MISCELLANEOUS

DATE	11/18/71
DESIGNED BY	...
CHECKED BY	...
NOTED BY	...
ORIGINAL PLAN	...
NOTE BOOK	...
QUANTITIES BY	...
NO.	...

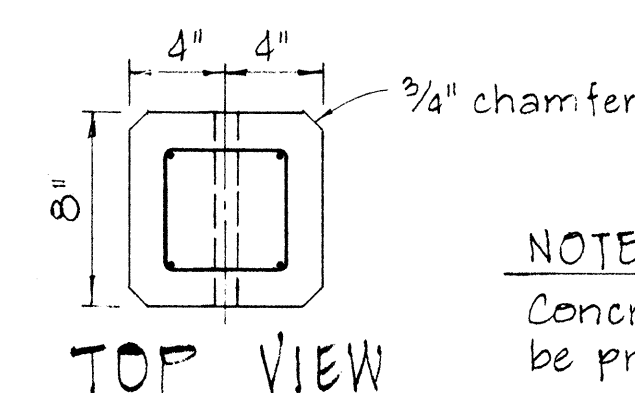
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-0275	1976	5	9



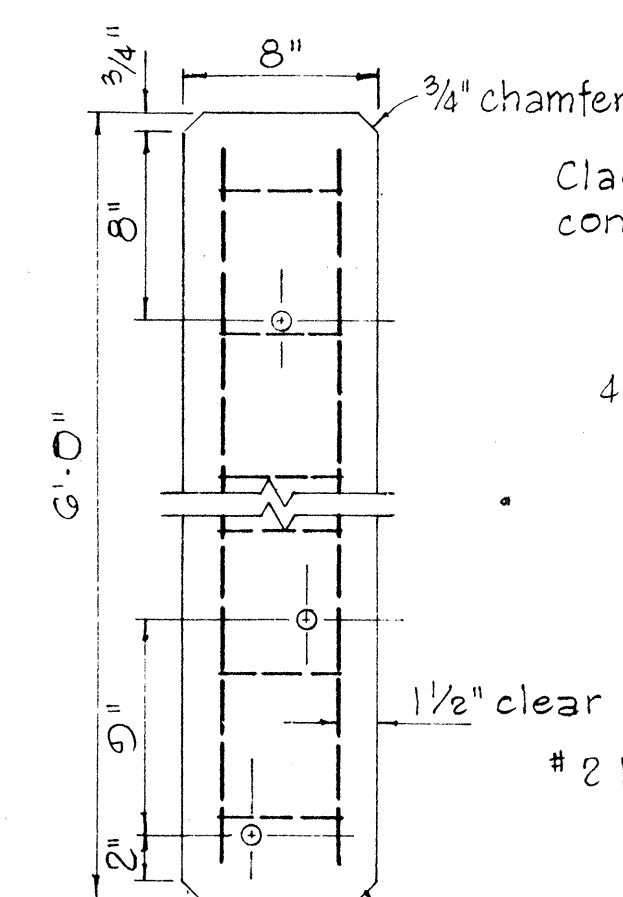
PLAN



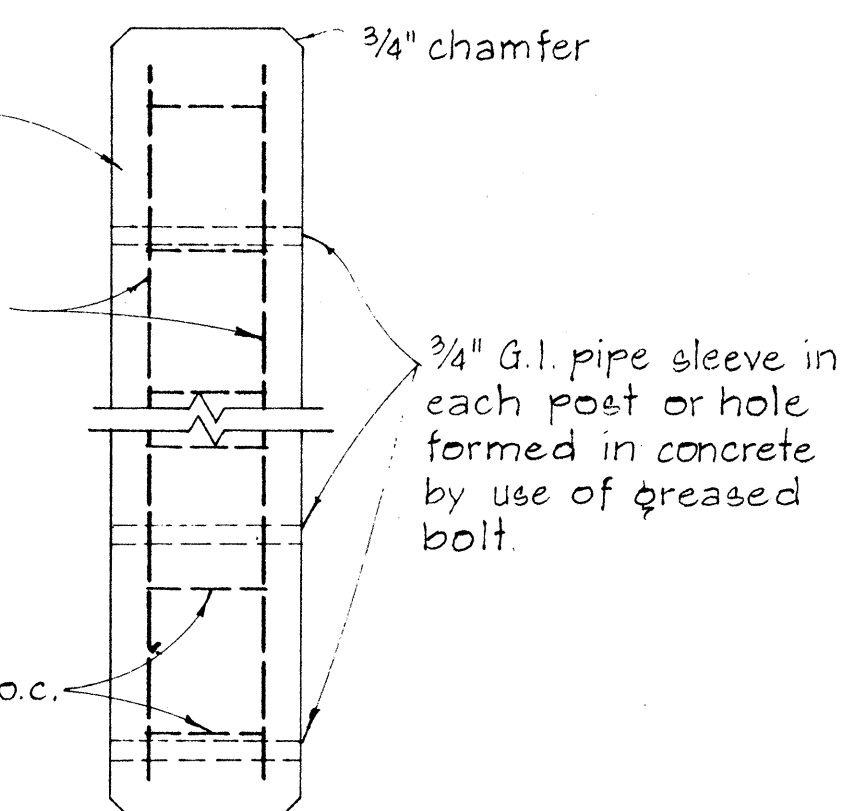
PLAN



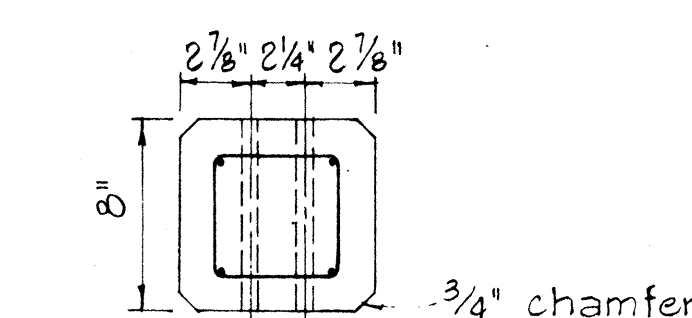
NOTE:
Concrete post shall be precast



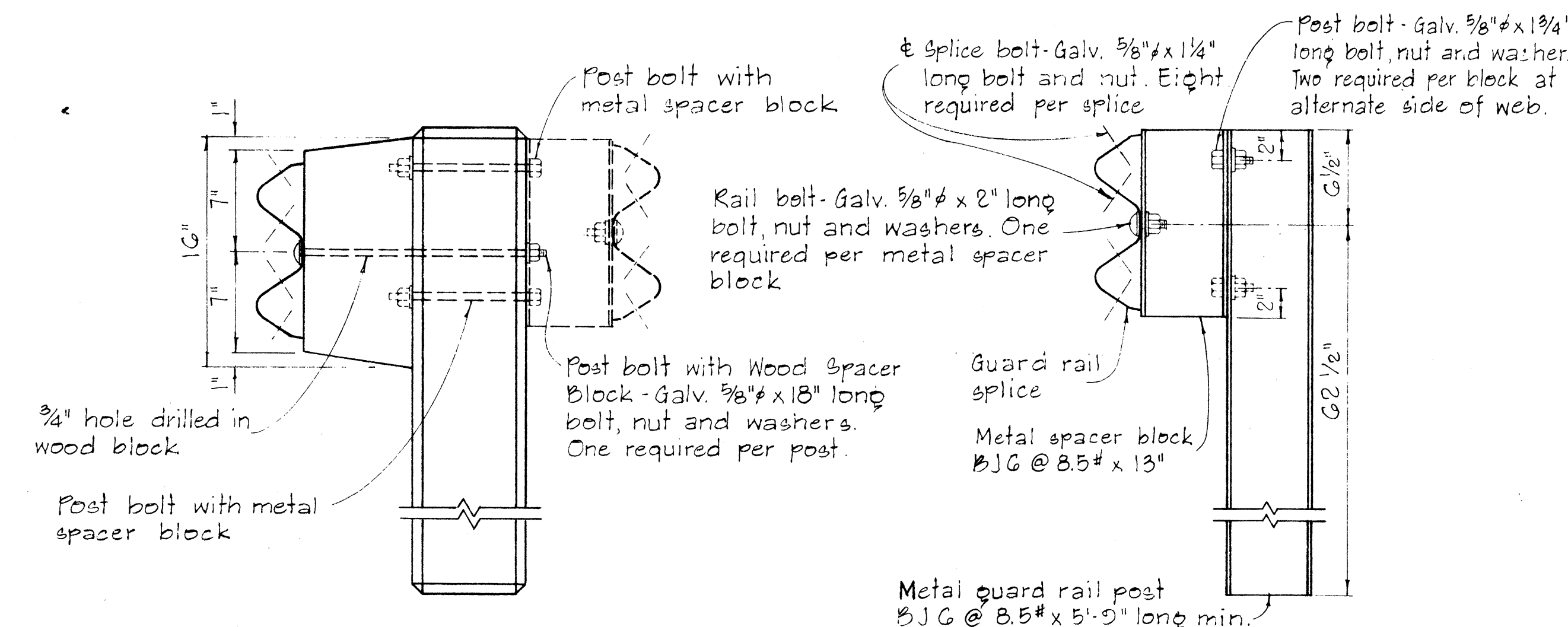
FRONT VIEW



SIDE VIEW

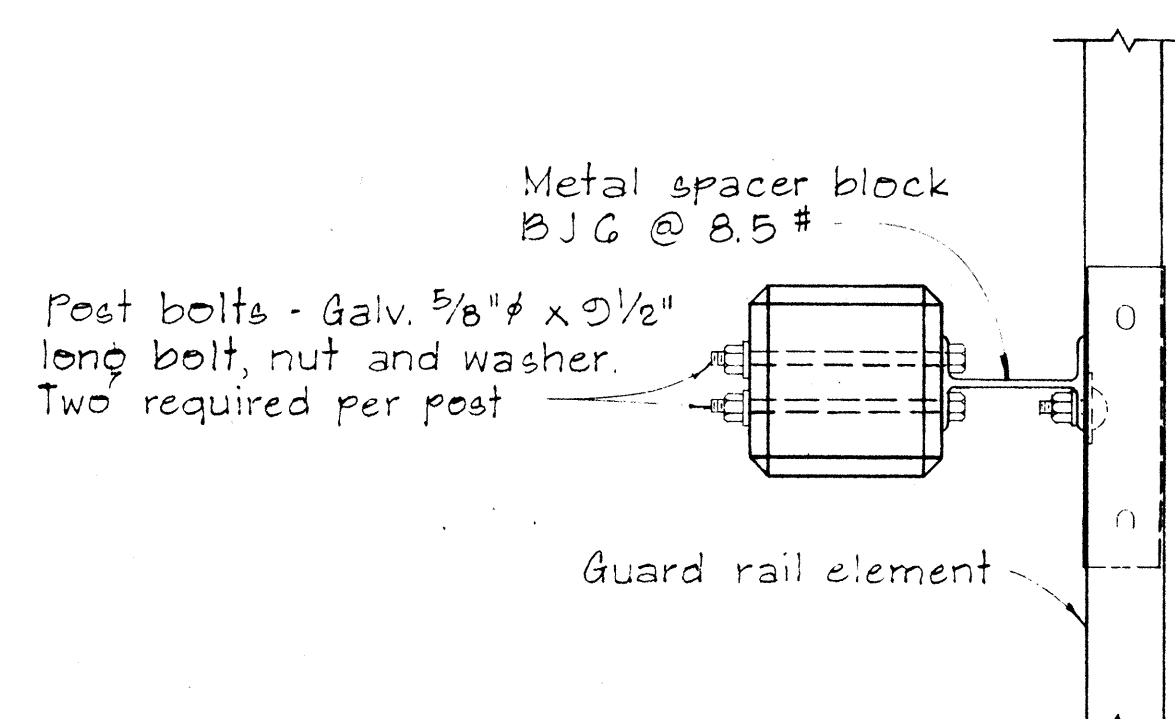


BOTTOM VIEW

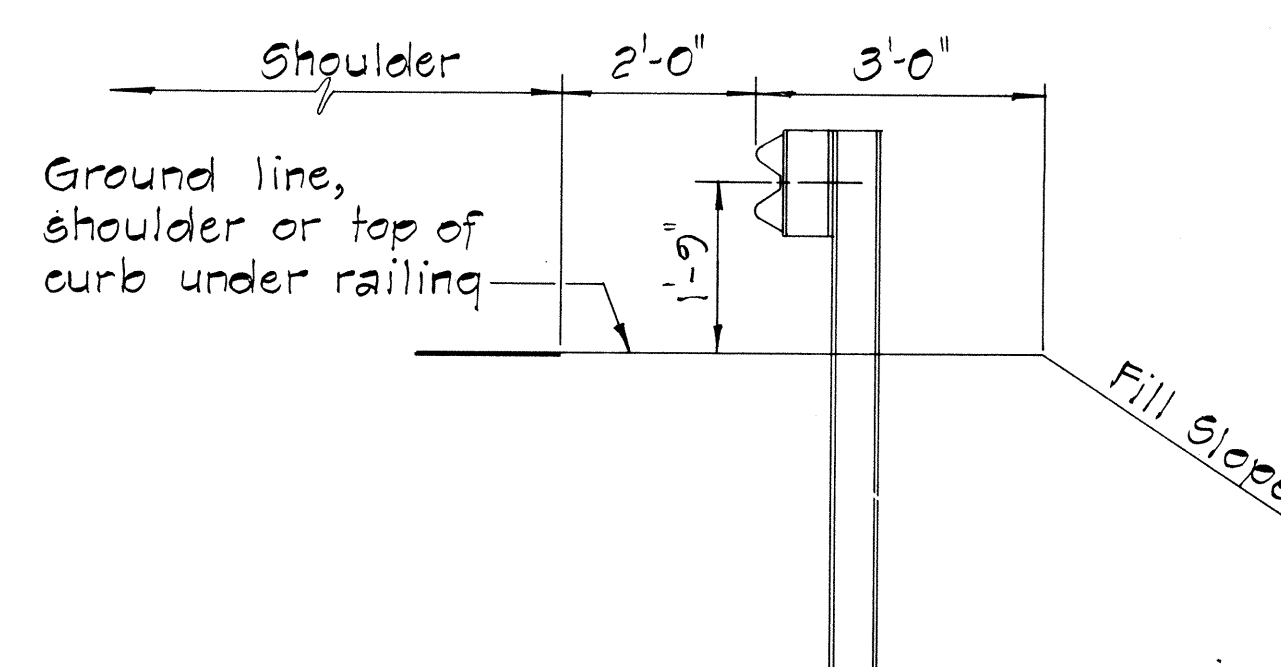


SINGLE METAL GUARD RAIL ON METAL POST
WITH METAL SPACER BLOCK

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



PLAN



AT SHOULDER SECTION

SINGLE METAL GUARD RAIL ON PRECAST
CONCRETE POST WITH WOOD OR METAL SPACER BLOCK

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

TYPICAL METAL GUARD RAIL DETAIL

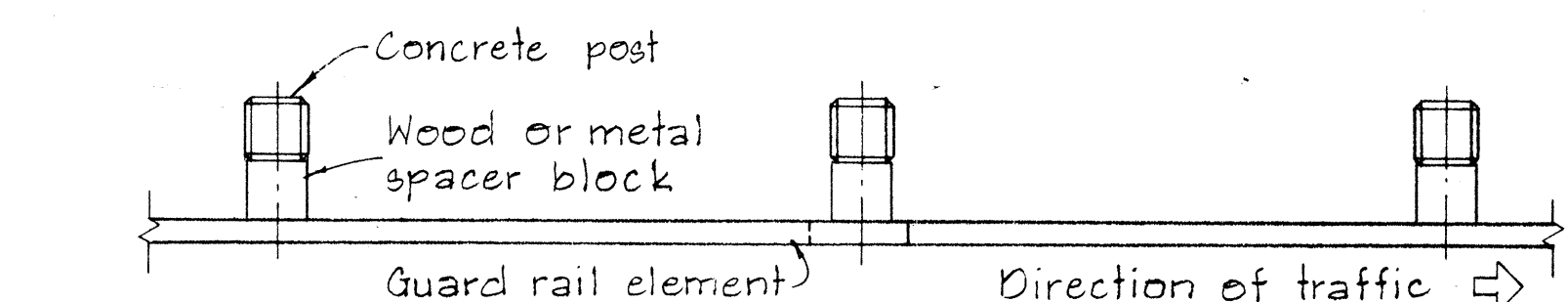
SCALE: $\frac{1}{2}'' = 1'-0''$

APPROVAL RECOMMENDED:
Eichi Tanaka
TRAFFIC ENGINEER

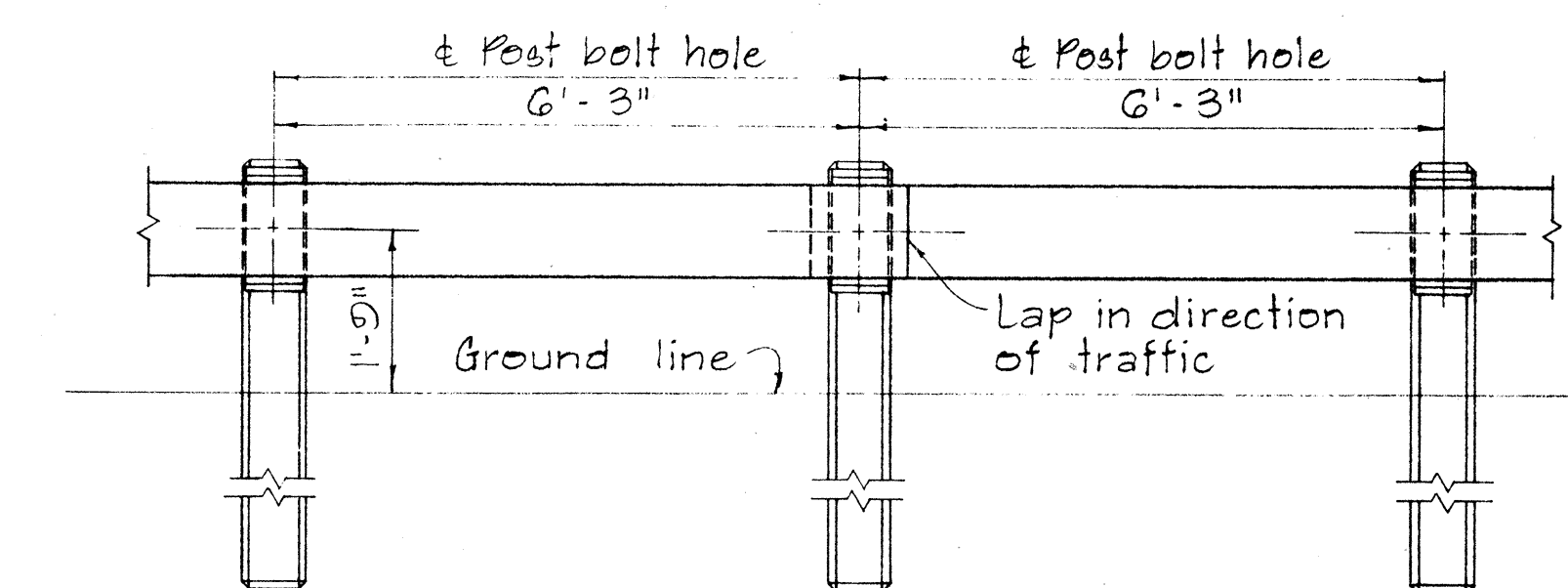
12/29/69
DATE

APPROVED: Hubert Z. Zelenka
ASSISTANT CHIEF, ENGINEERING

12-30-69
DATE



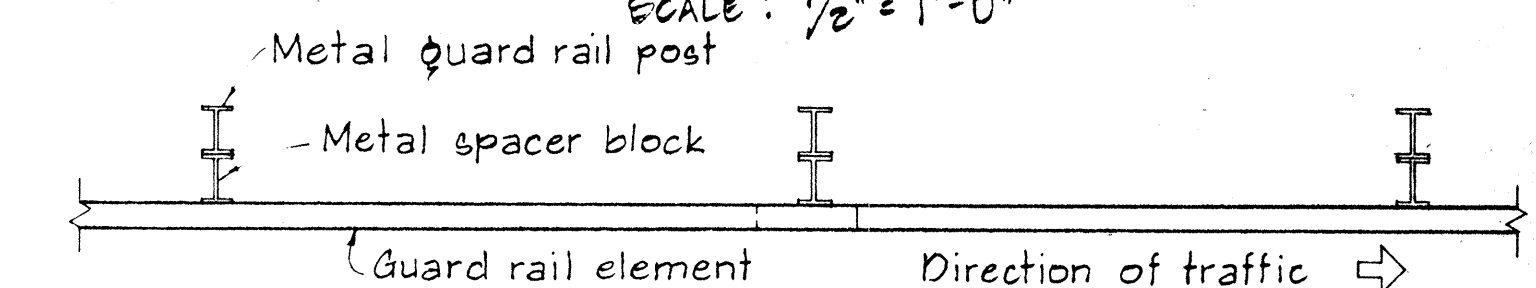
PLAN



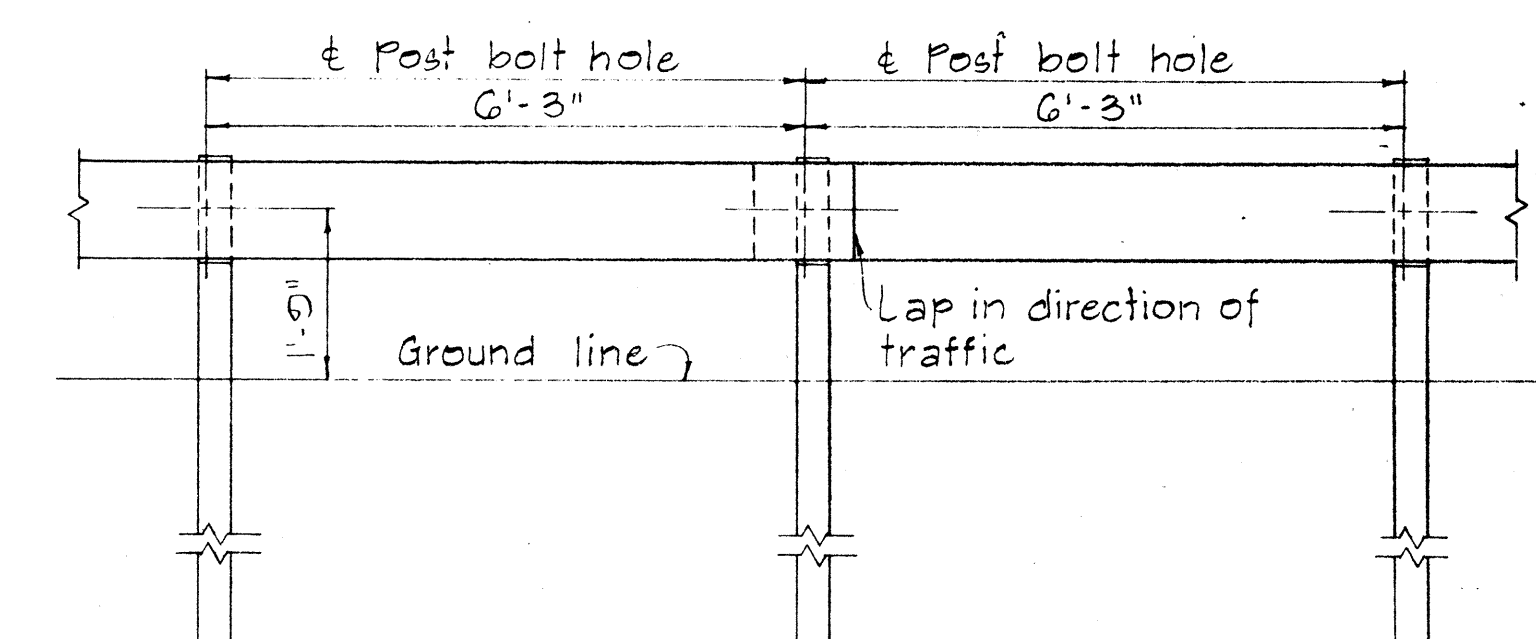
ELEVATION

METAL GUARD RAIL ON CONCRETE POST
WITH WOOD OR METAL SPACER BLOCK.

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



PLA:



ELEVATION

METAL GUARD RAIL ON METAL POST
WITH METAL SPACER BLOCK

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

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

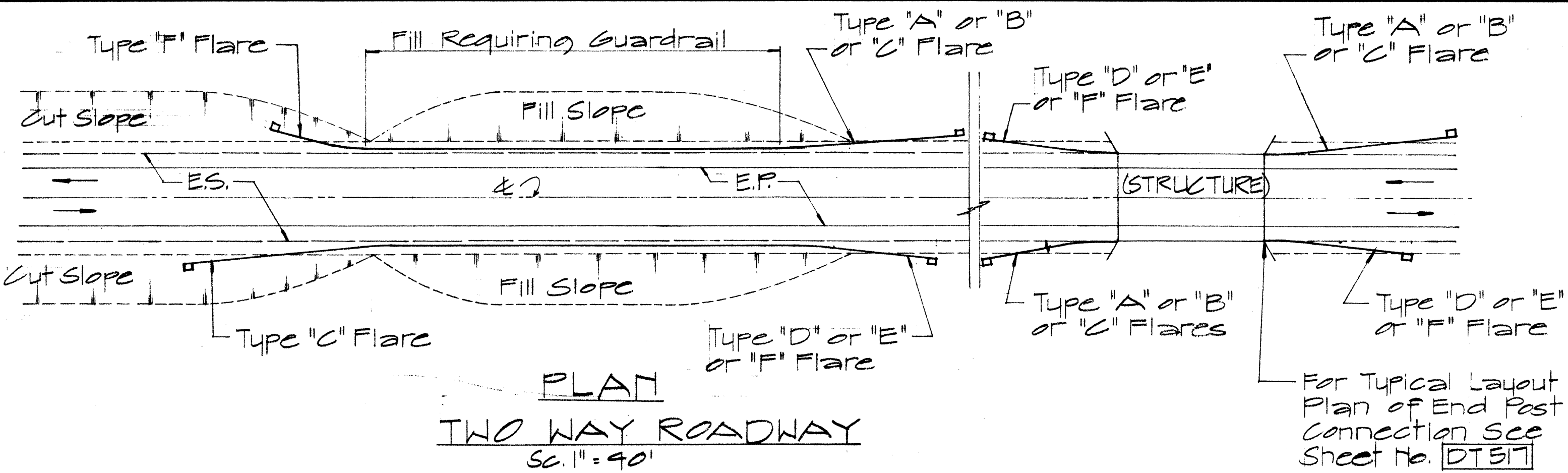
STANDARD DETAILS

METAL GUARD RAIL

SCALE : AS SHOWN

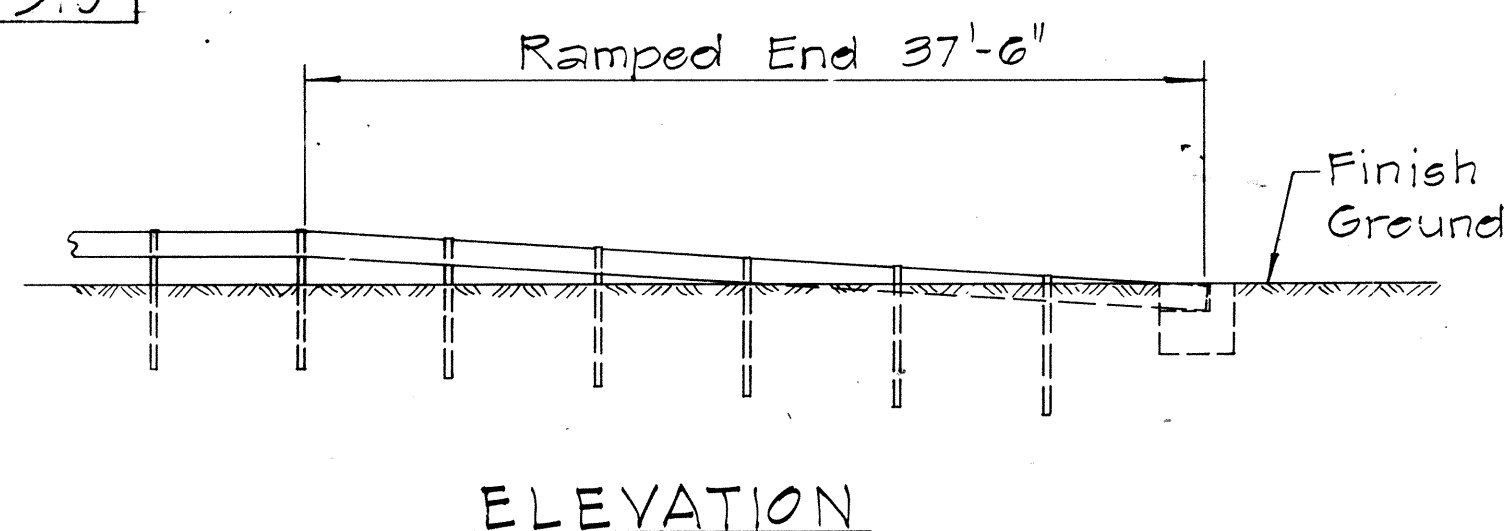
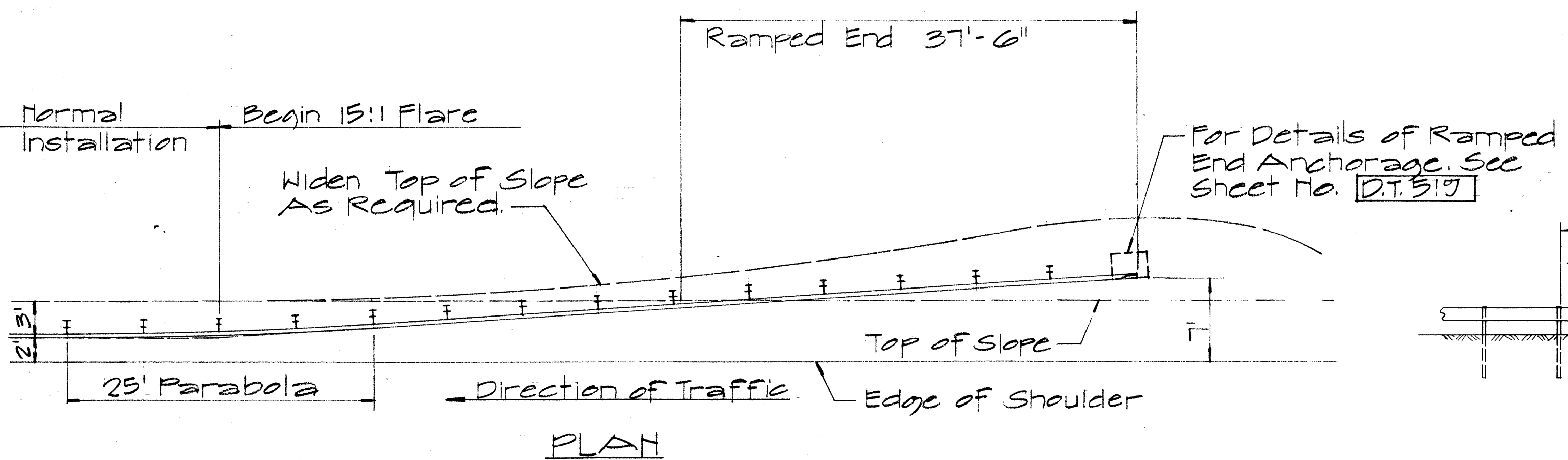
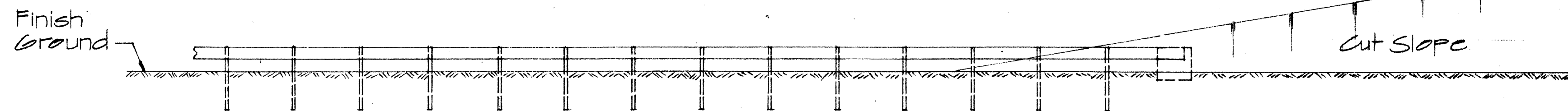
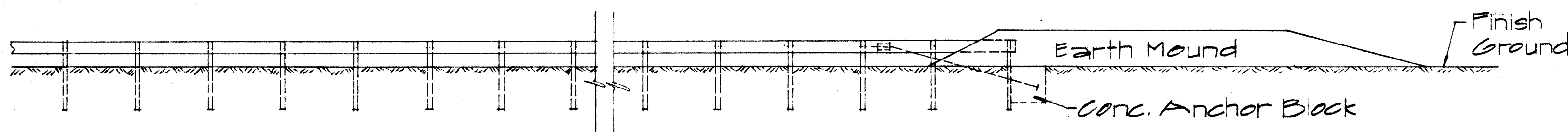
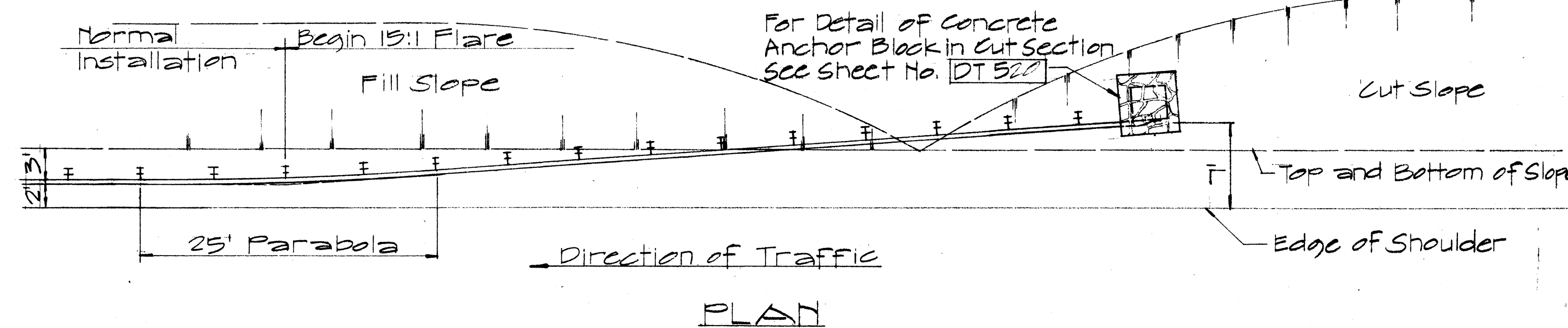
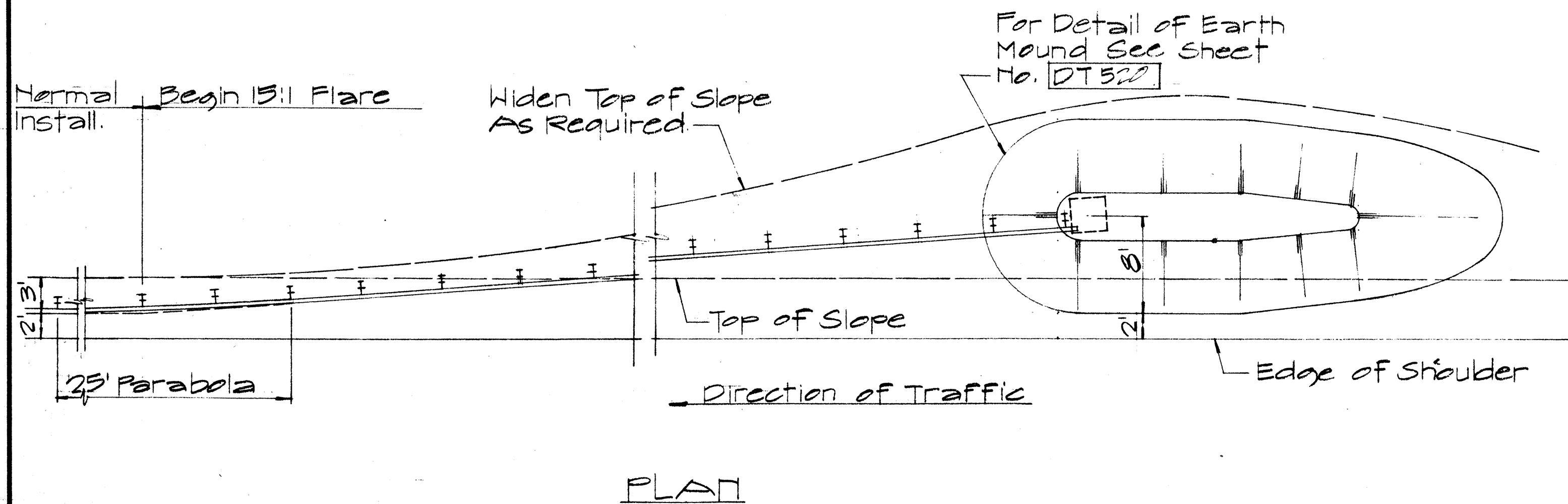
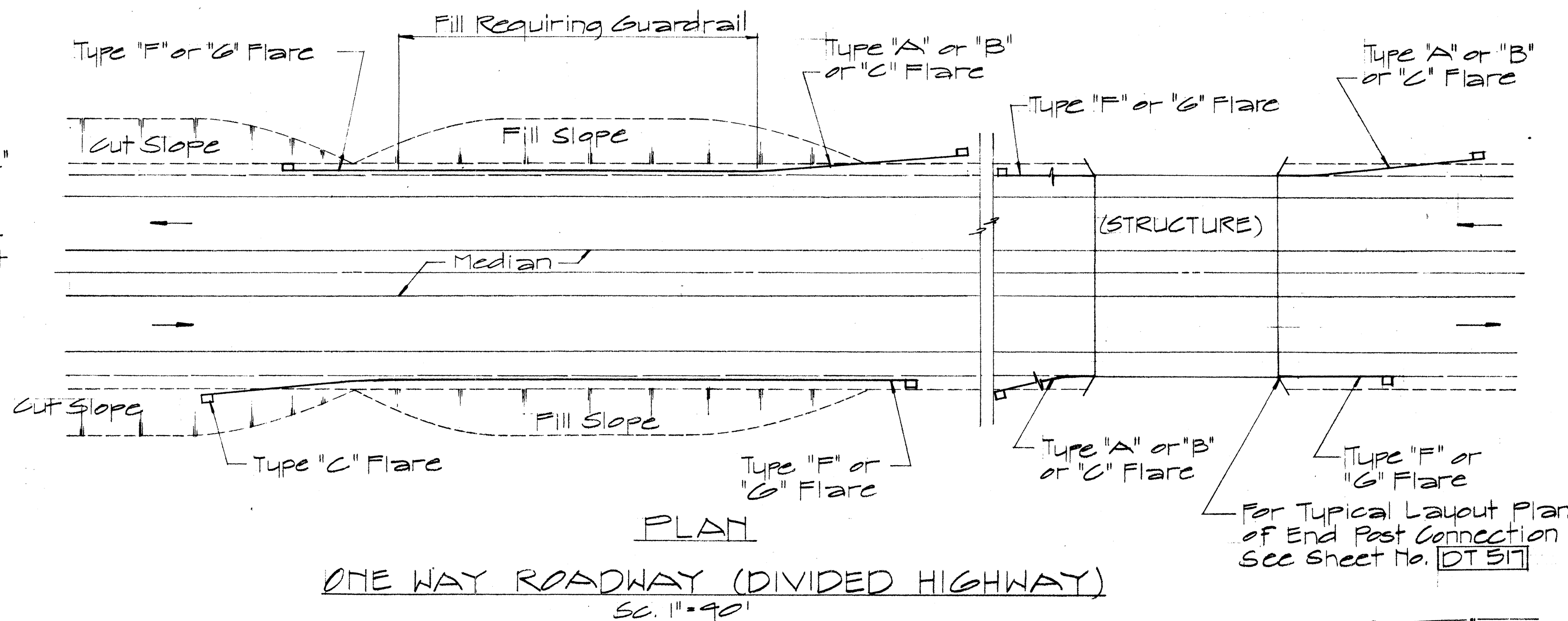
NOV. 1968

SHEET No. 3 OF 6 SHEETS DT 500



NOTE:
Metal guard rail connection to structures requires End Post Connection. See structure plans.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-0275	1976	7	9



ELEVATION
TYPE "C" FLARE
SC. 1/8" = 1'-0"

NO.	REVISION	APPROVED BY	DATE

APPROVAL RECOMMENDED:
Erich Tanaka 12/22/62
TRAFFIC ENGINEER DATE

APPROVED:
[Signature] 12-30-69
ASSISTANT CHIEF, ENGINEERING DATE

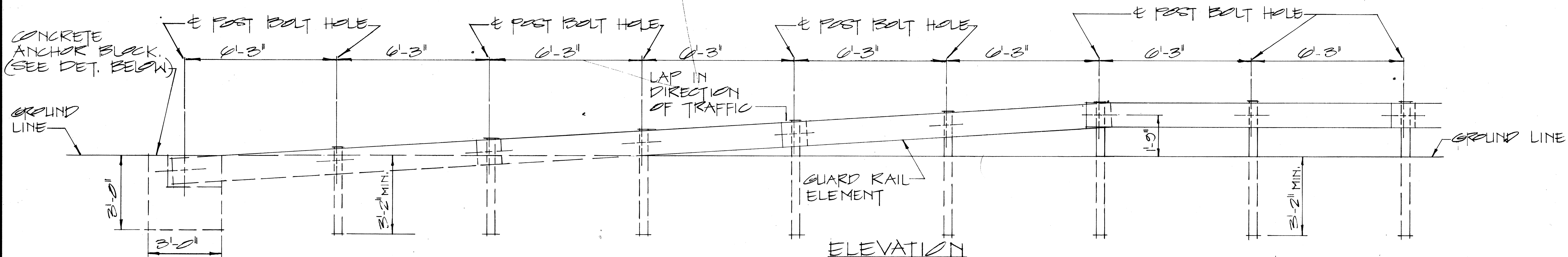
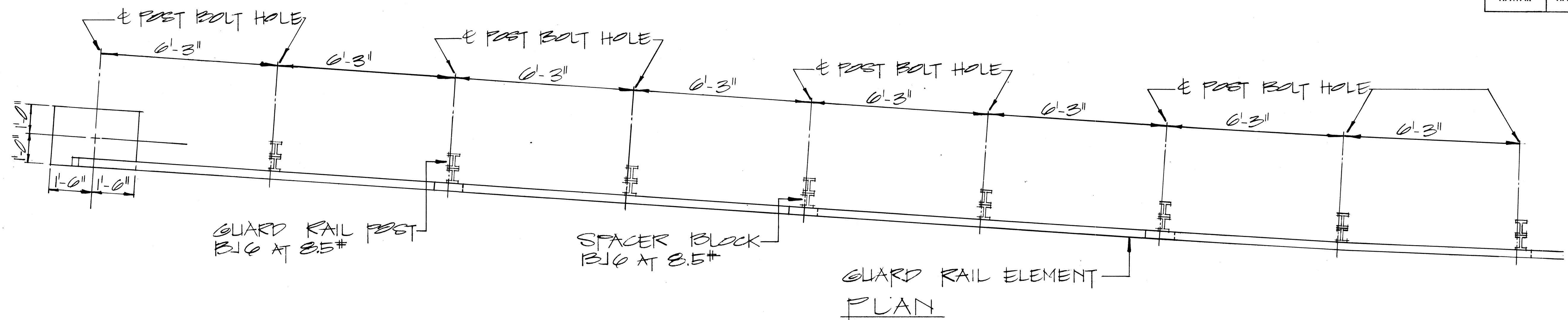
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STANDARD DETAILS
OF APPROACH END
FLARE - ONE & TWO
WAY ROADWAY**

SC. AS NOTED APRIL 1969
SHEET No. 5 OF 6 SHEETS [DT 516]

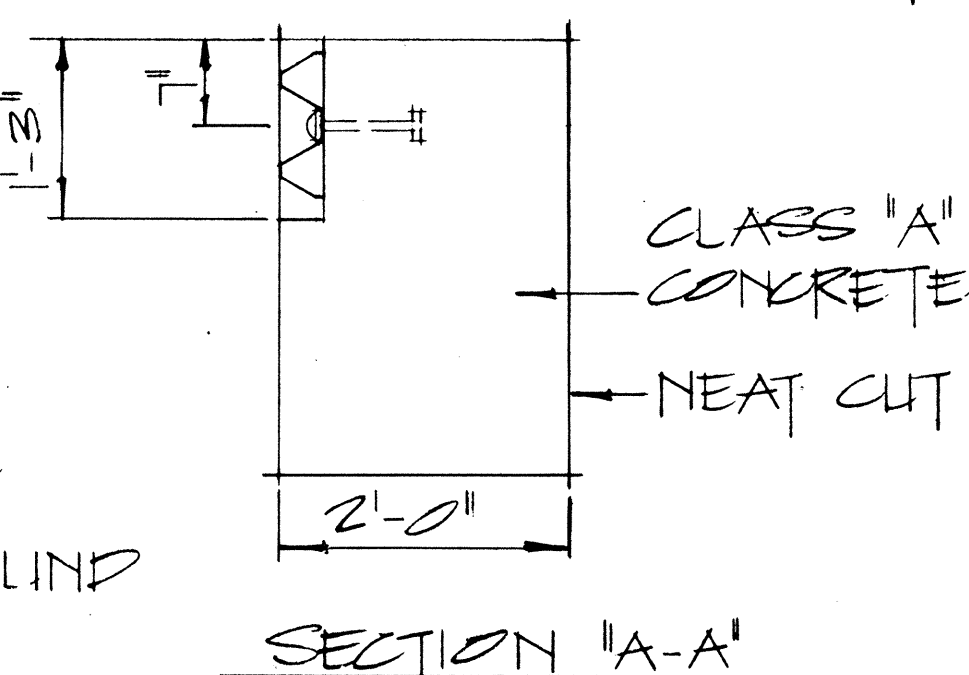
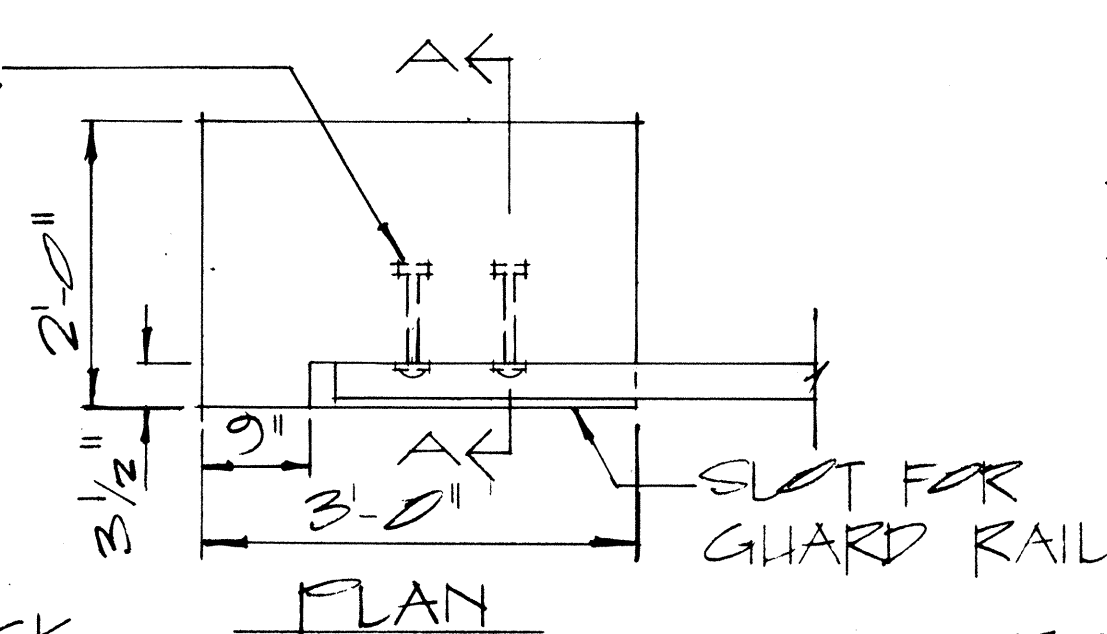
DATE
SURVEY PLOTTED BY
DRAWN BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
No.

FED. ROAD DIST. NO.	STATE	FED-AID- PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-0275	1976	8	9

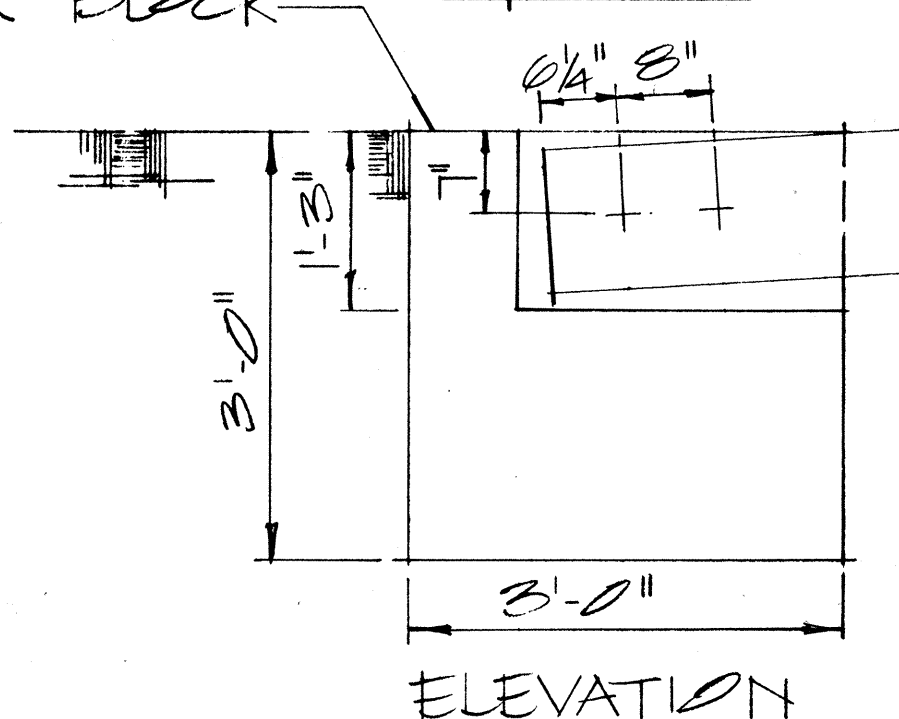


RAMP END ANCHORAGE
SCALE: 1/2" = 1'-0"

2-5/8" x 7/4" LONG BOLTS w/ NUTS & WASHERS INCIDENTAL TO METAL GUARD RAIL. ALL METAL PIECES SHALL BE GALVANIZED.



TOP OF ANCHOR BLOCK TO BE FLUSH 1/4" GROUND.



NOTE: CONCRETE, EXCAVATION AND MISCELLANEOUS APPURTENANCES NECESSARY TO ANCHOR THE GUARD RAIL ENDS, SHALL BE INCIDENTAL TO THE METAL GUARD RAIL.

CONCRETE ANCHOR BLOCK
SCALE: 3/4" = 1'-0"

APPROVAL RECOMMENDED:
Erich Tanaka
TRAFFIC ENGINEER
12/29/69
DATE

APPROVED:
John J. J. J.
ASSISTANT CHIEF, ENGINEERING
12-30-69
DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
GUARD RAIL, TYPE 3
RAMP END ANCHORAGE

SCALE: AS SHOWN

SHEET No. 6 OF 6 SHEETS PT512

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