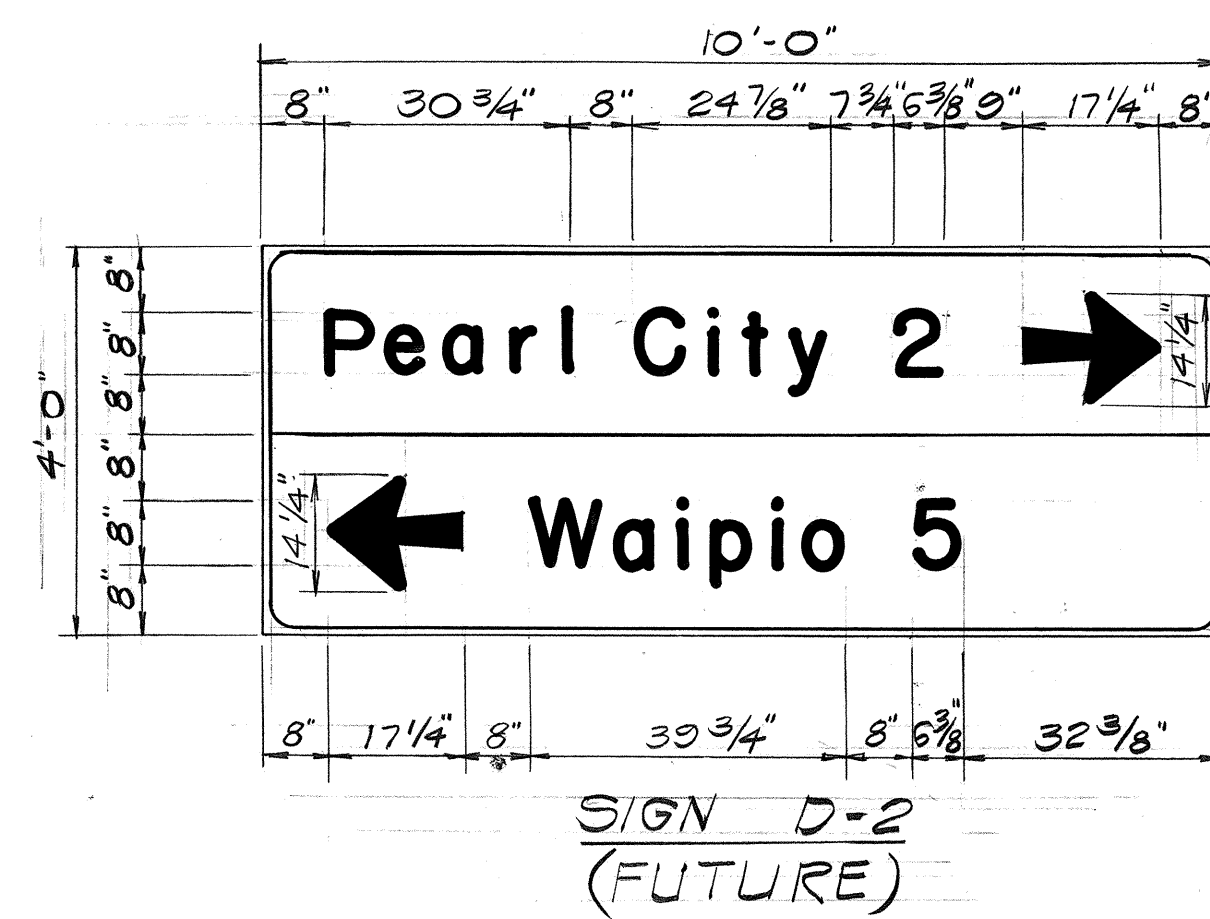
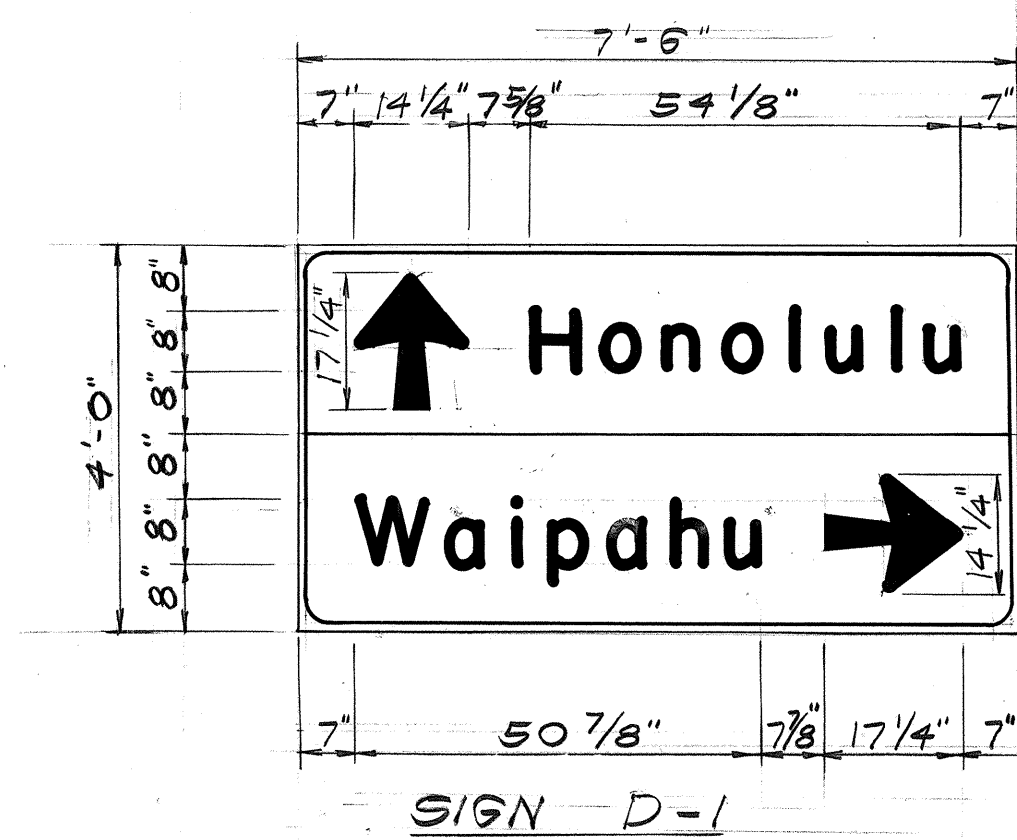
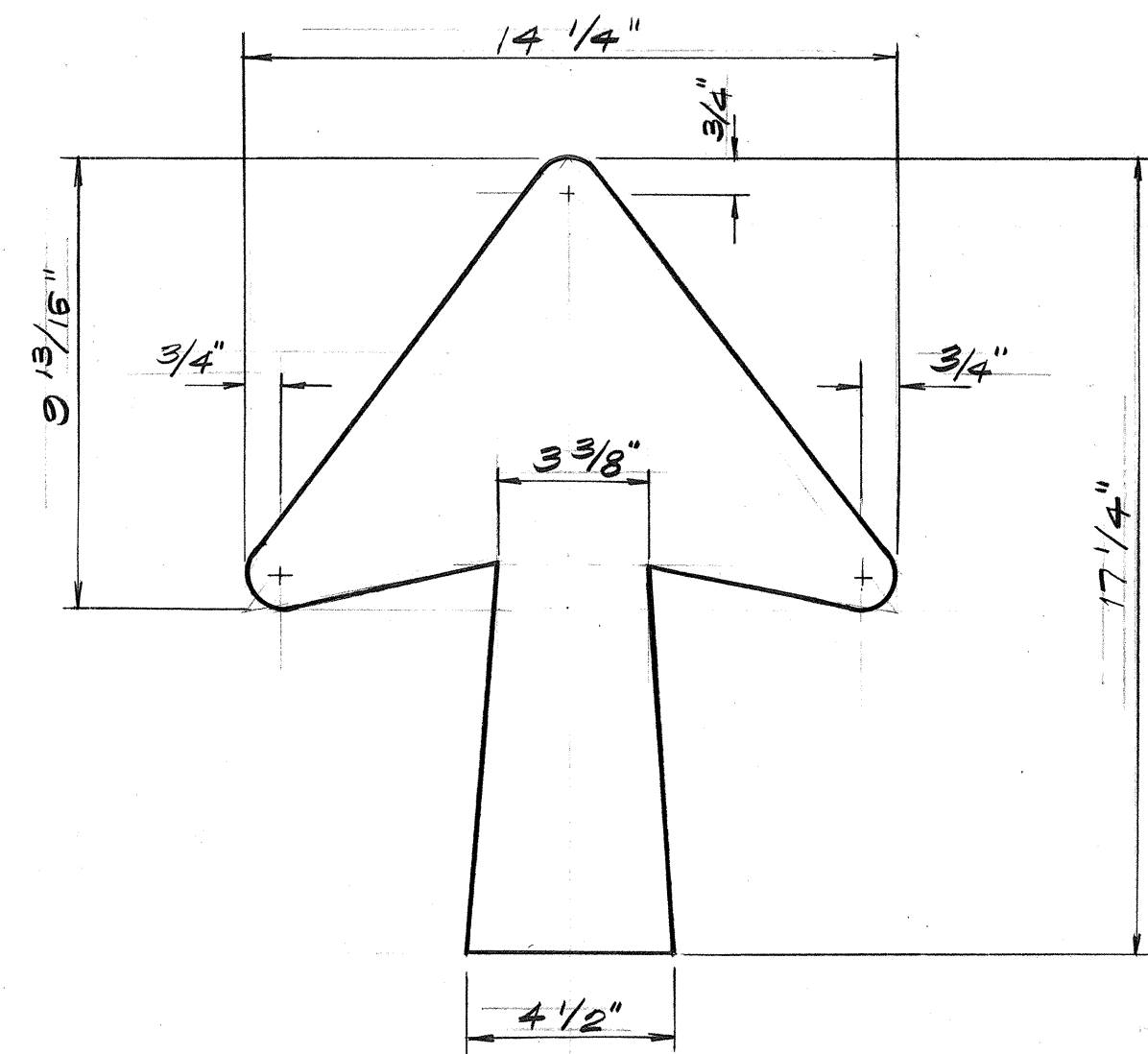
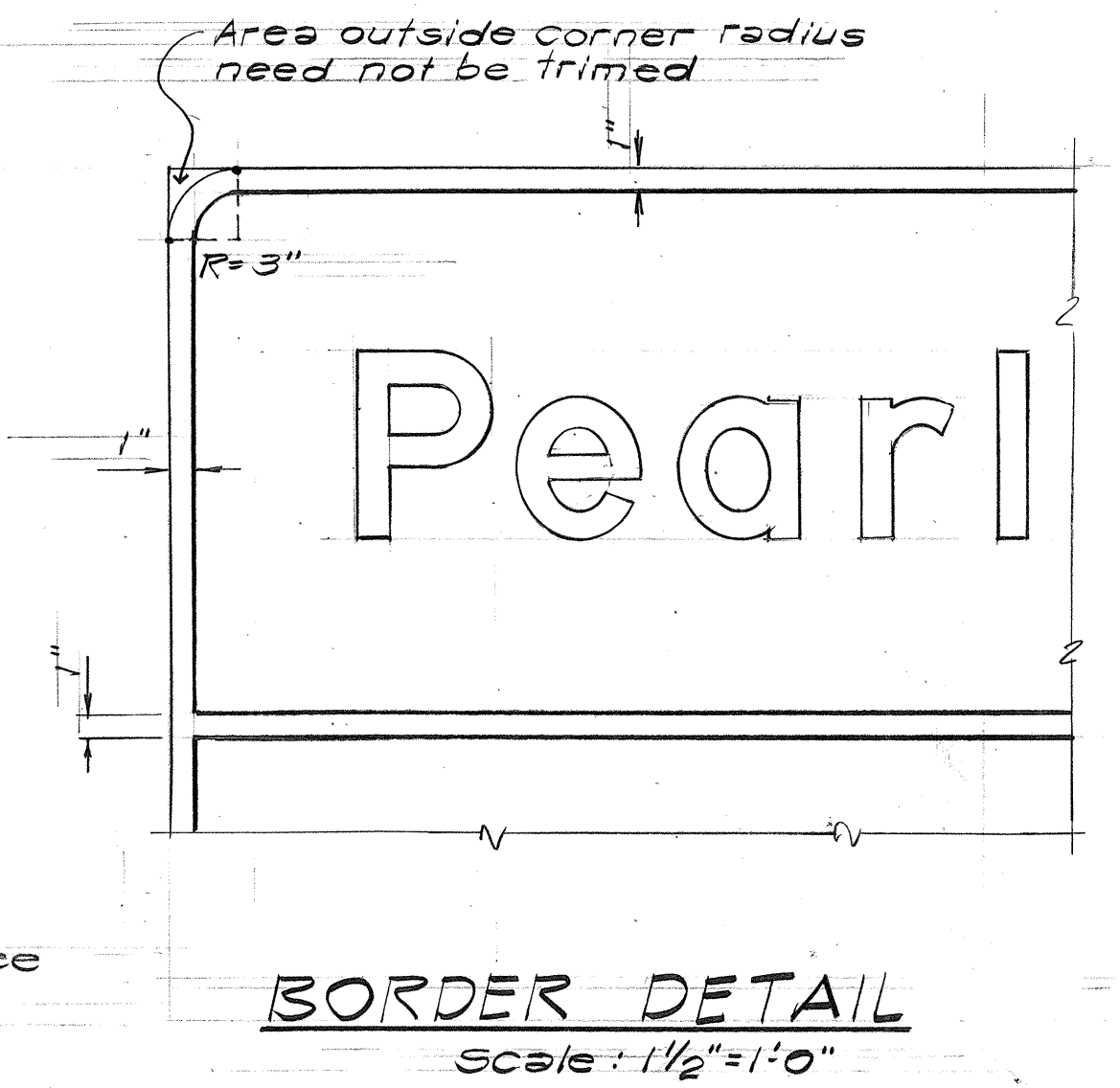
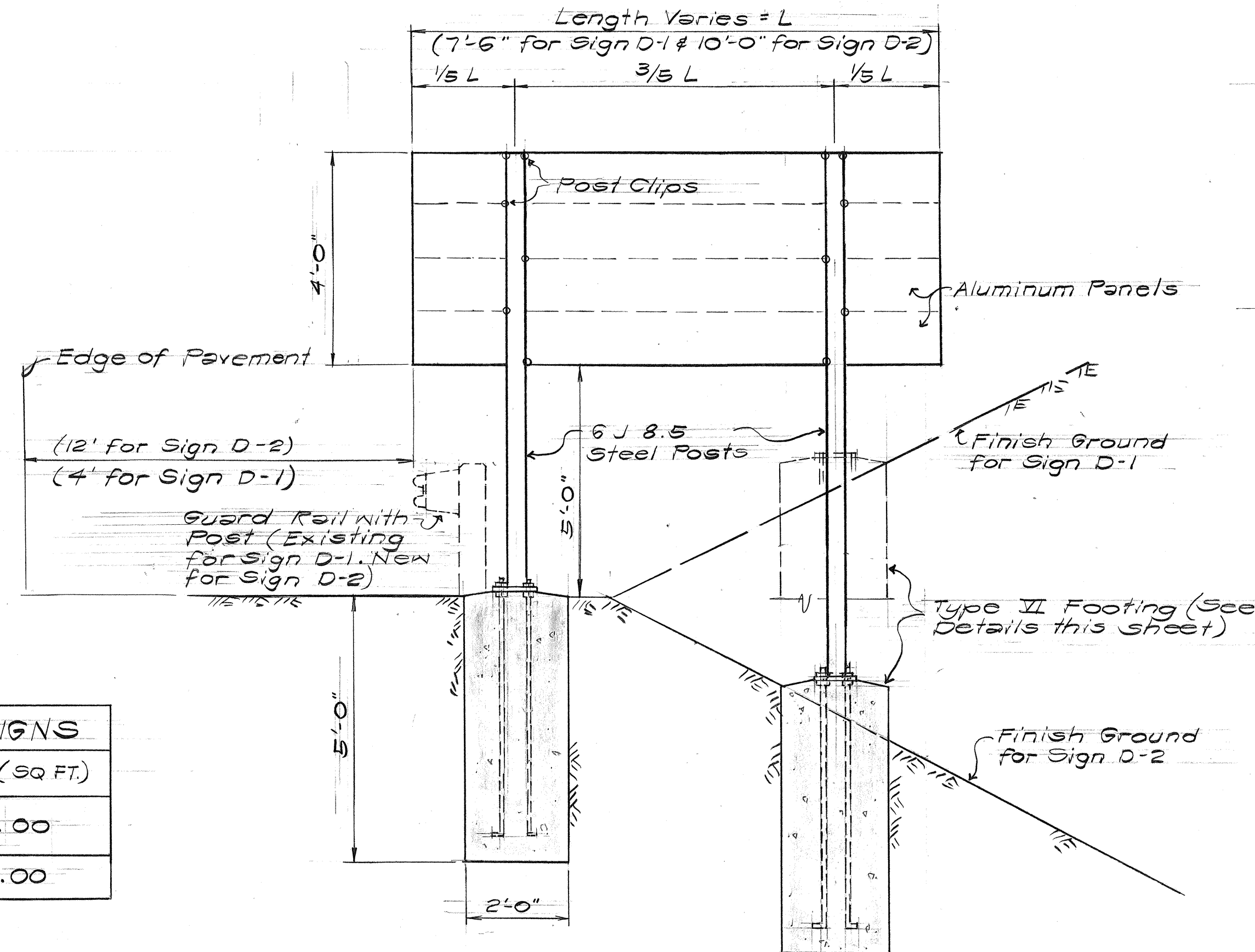




PANEL LAYOUT
Scale: 1/2" = 1'-0"

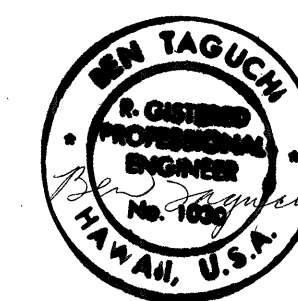
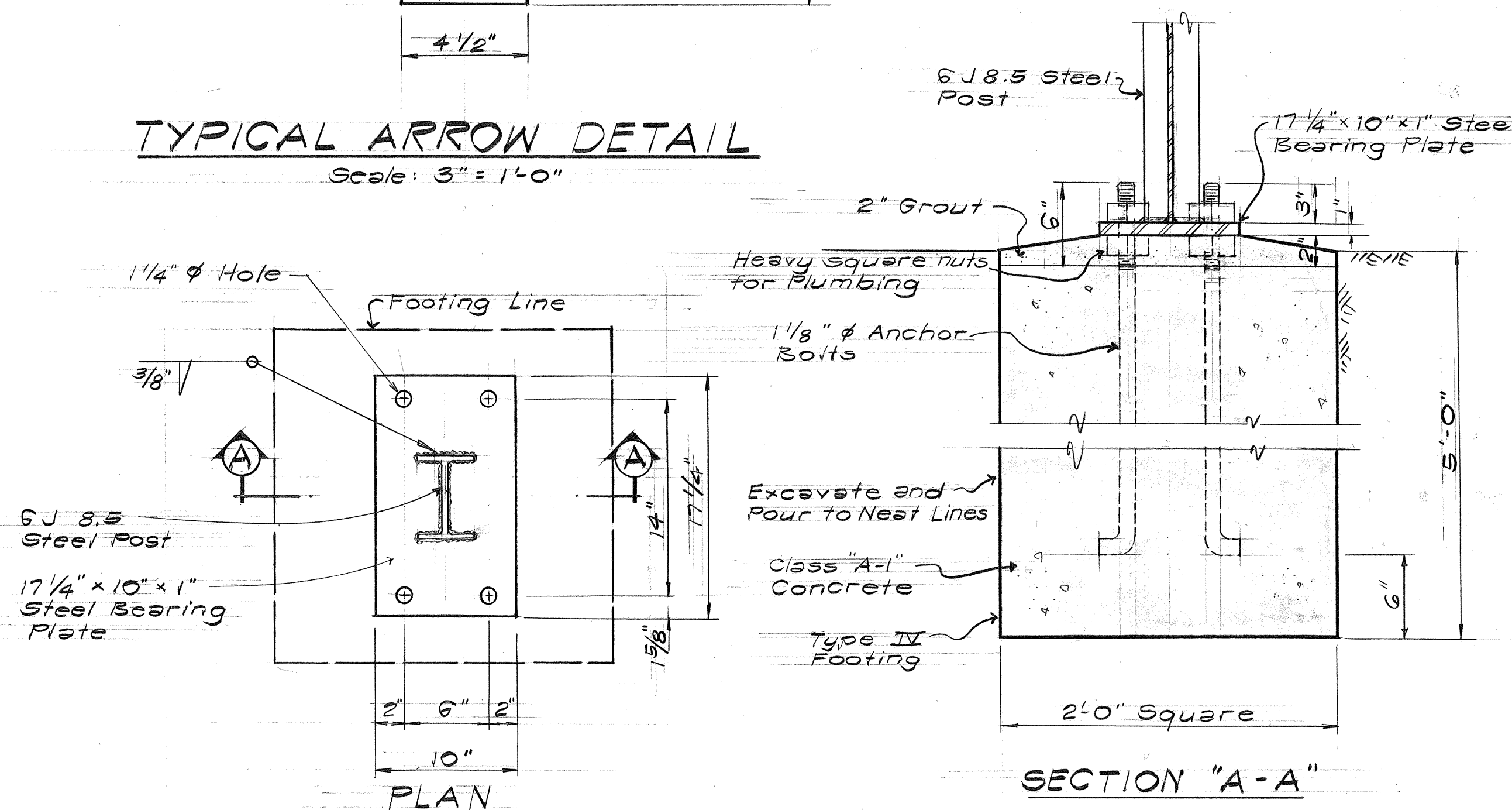


SUMMARY OF DESTINATION SIGNS		
SIGN NO.	MESSAGE	AREA (SQ. FT.)
D-1	Honolulu Waipahu	30.00
	Total	30.00



GENERAL NOTES:

- Sign message shall be lettered in upper case according to "Standard Alphabets for Highway Signs", Bureau of Public Roads, 1952, and lower case according to "Standard Lower Case Alphabets for Highway Signs", Bureau of Public Roads, 1962. Use Series "E" modified letters unless otherwise noted.
- Arrows and borders shall conform with details as shown on plans.
- Letters, numerals, symbols and borders shall be demountable aluminum cutouts with white reflective sheeting or clear reflex reflectors, and shall be fastened on the sign panel with blind rivets. See Special Provisions.
- Destination Signs (D) shall have white reflective sheeting on aluminum cutouts on green reflective sheeting background.



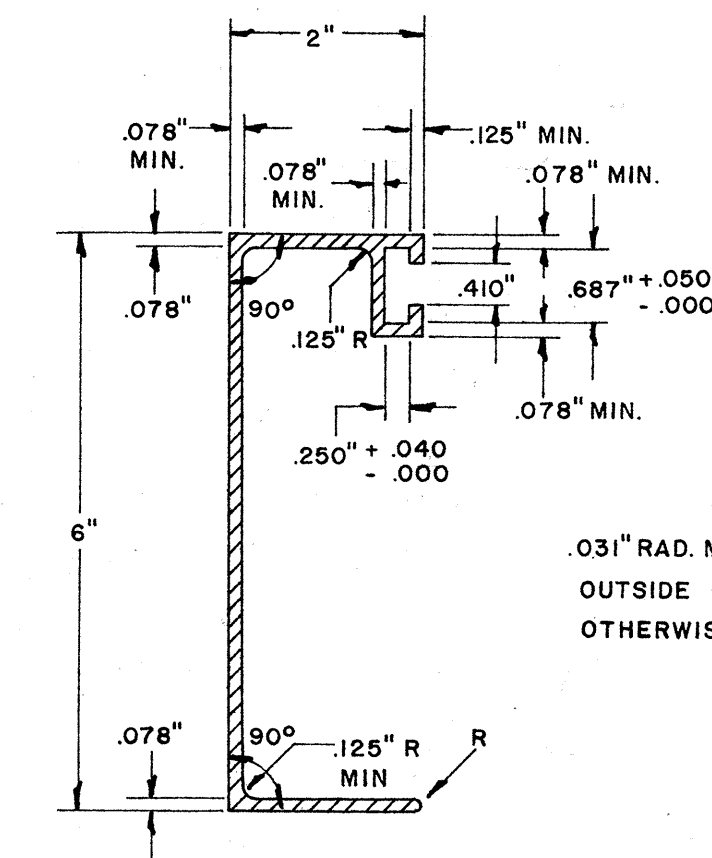
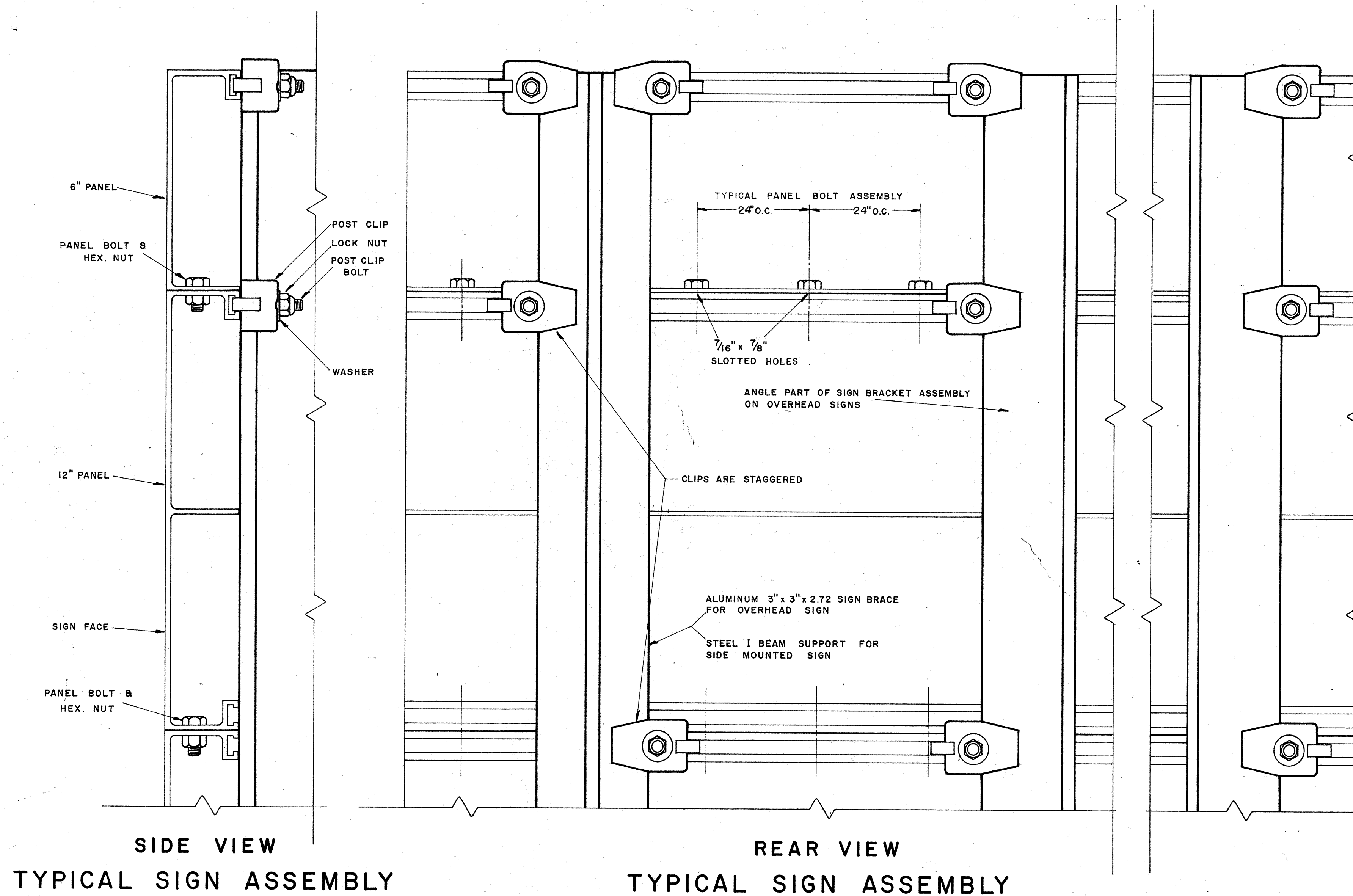
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

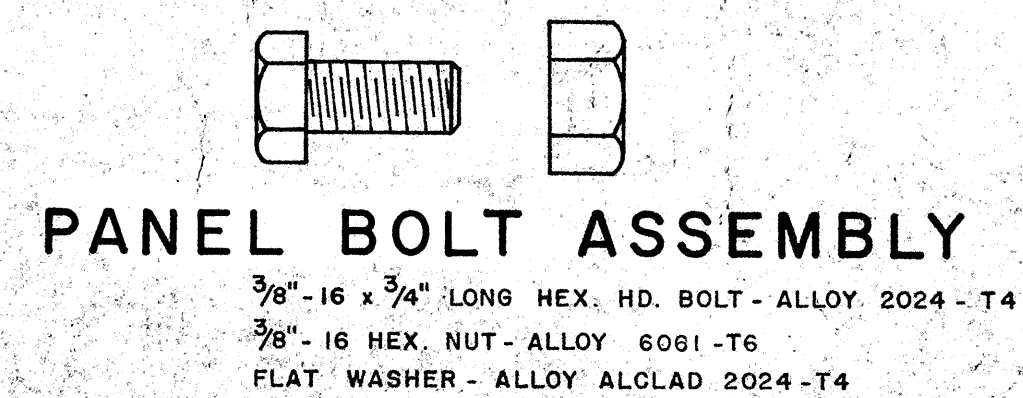
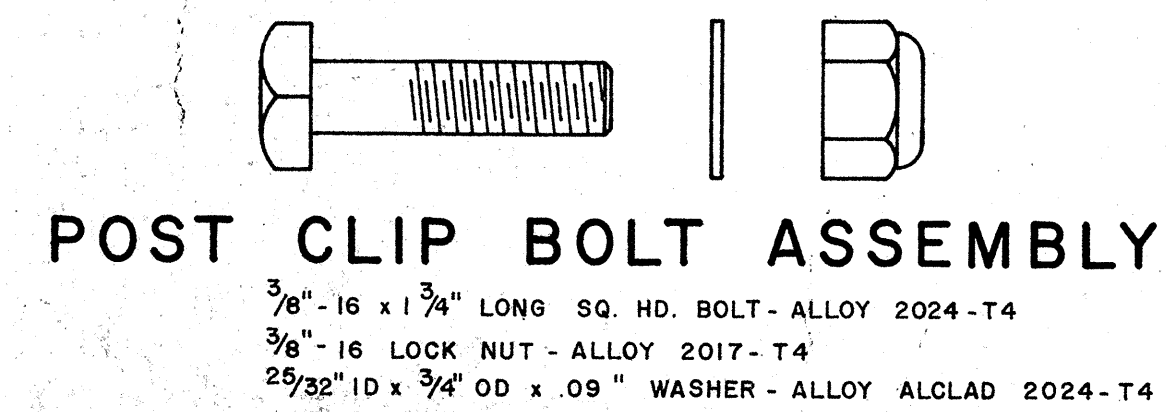
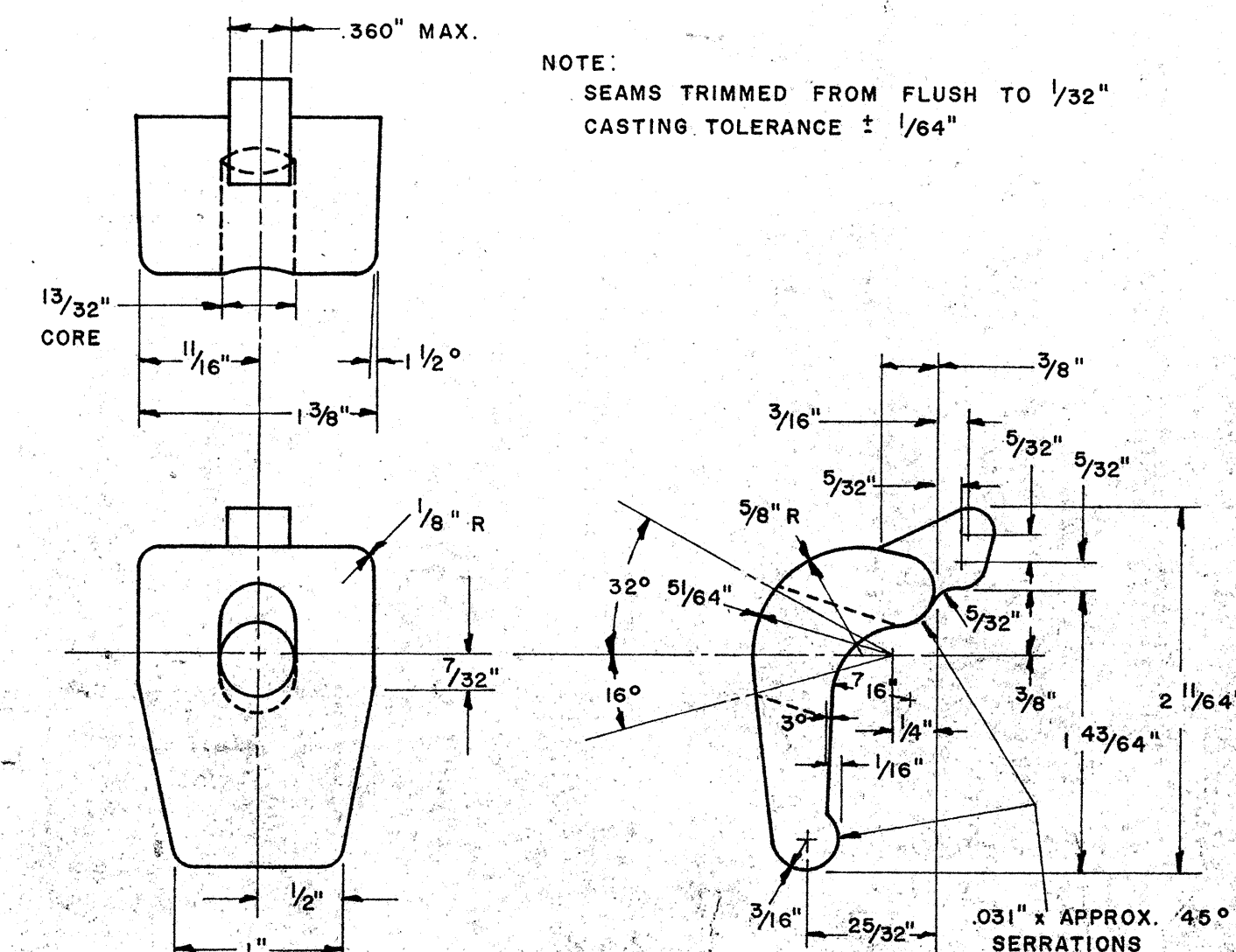
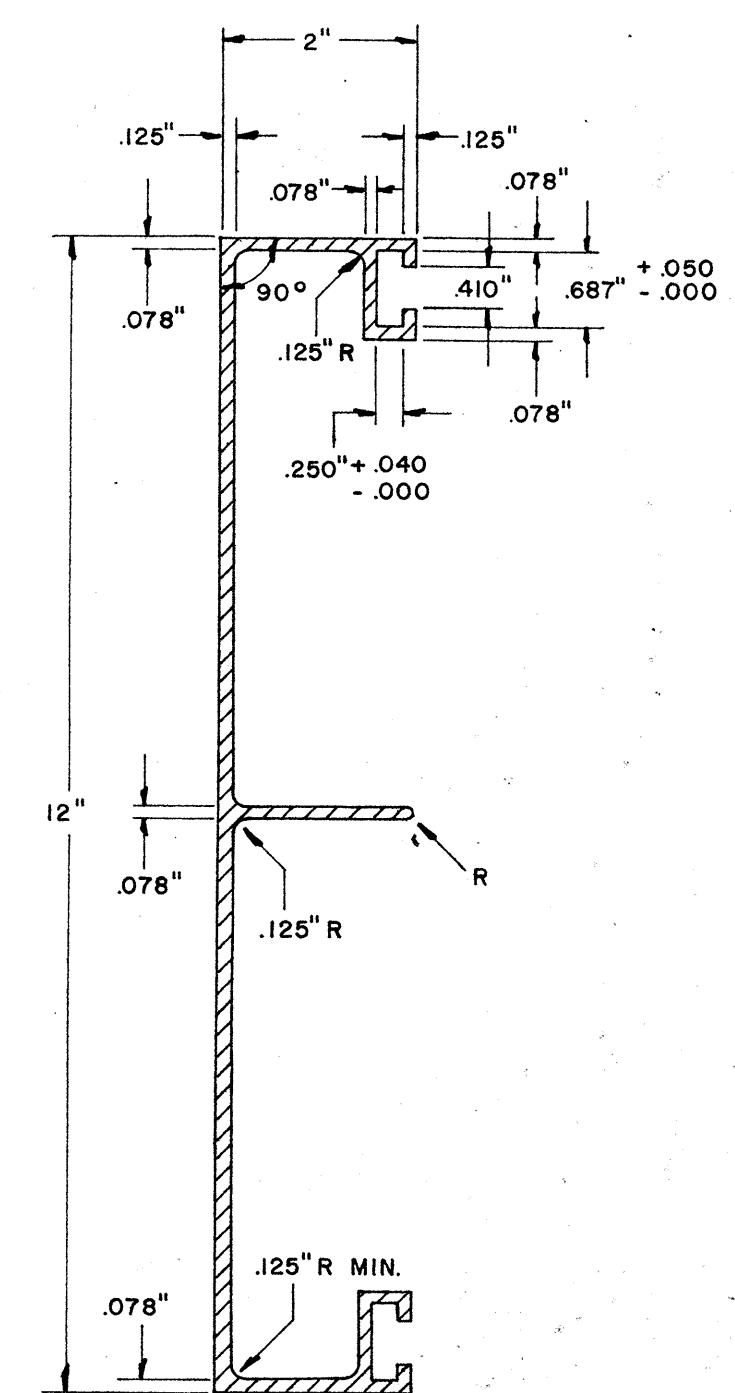
SIGNING DETAILS

WAI'AWA INTERCHANGE
F.A.I. Proj. No. I-H-11366

Scale: As shown Date: OCT 1967
SHEET No. OF SHEETS



SOLID EXTRUDED SIGN PANEL DETAILS



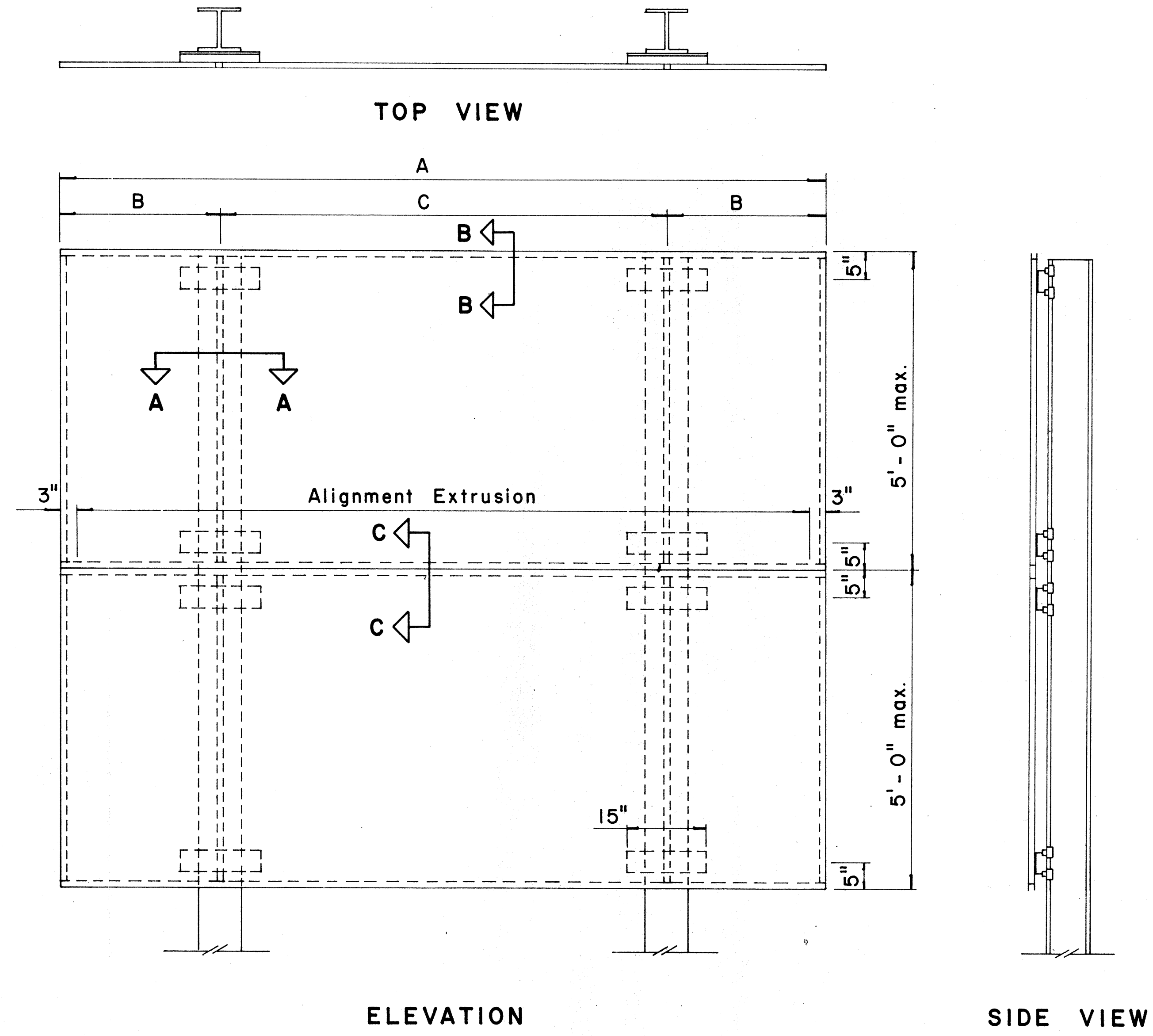
NOTE:
EXTRUDED ALUMINUM PANELS SHALL BE USED
FOR DESTINATION AND EXPRESSWAY SIGNS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
SOLID ALUMINUM
EXTRUDED SIGN PANEL
AND
ACCESSORY DETAILS
SCALE

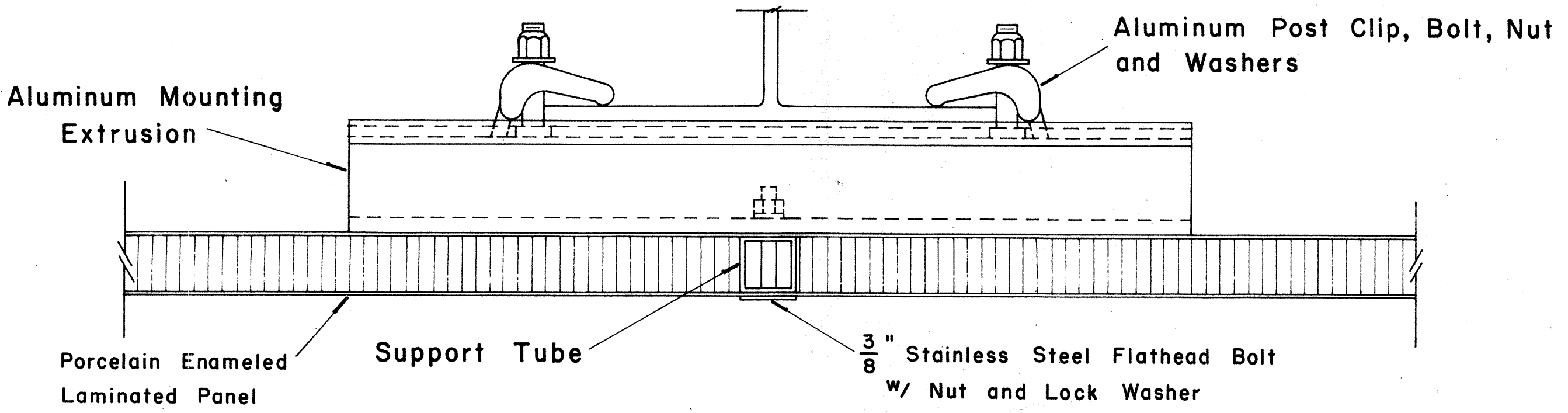
SHEET No. OF SHEETS

(GROUND MOUNTED SIGNS)
SUPPORT SPACING TABLE

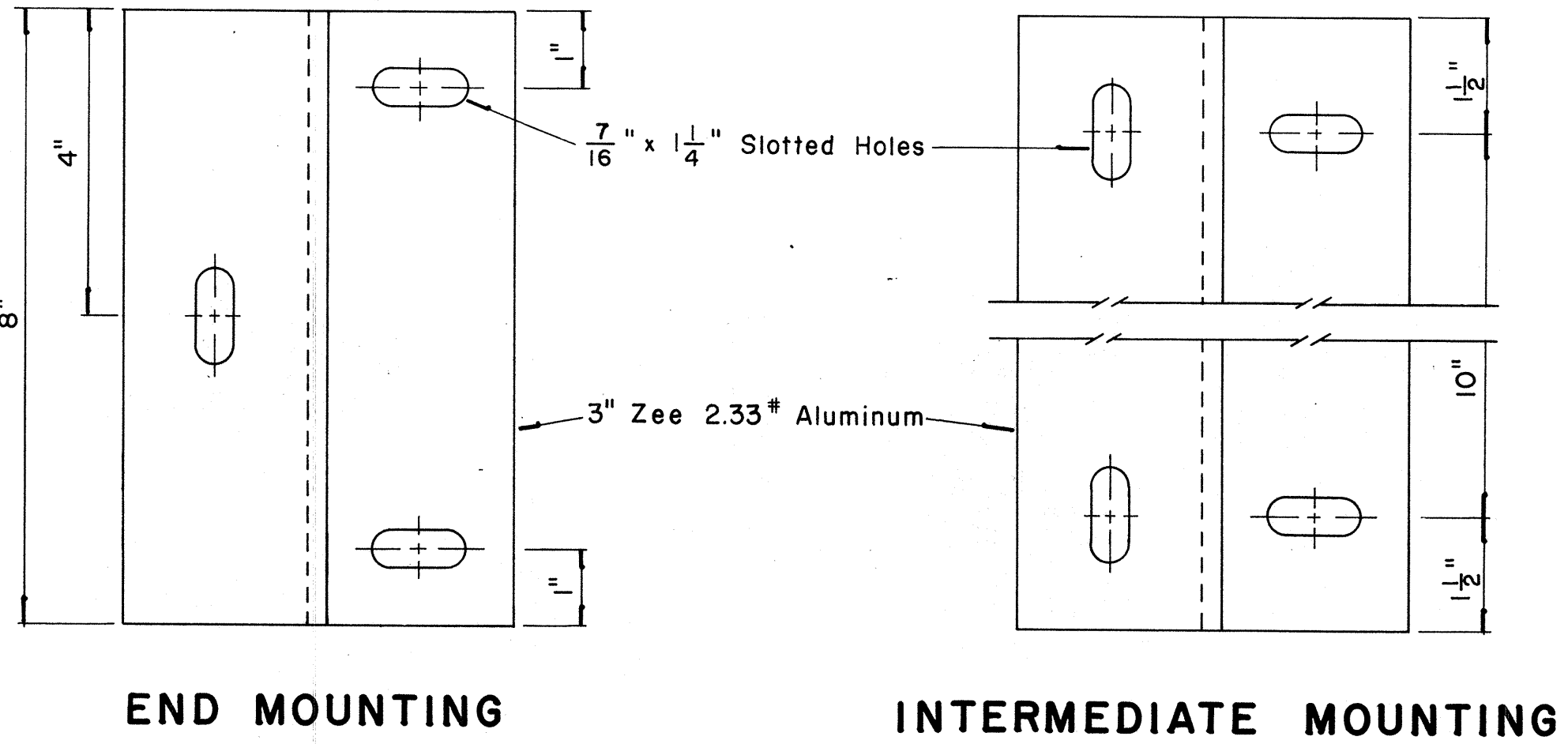
PANEL THICK.	LENGTH OF SIGN	NO. OF SUPPORTS	OVERHANG	SUPPORT SPACING
	A		B	C
1"	6'-0"	2	12"	48"
1"	6'-6"	2	15"	48"
1"	7'-0"	2	15"	54"
1"	7'-6"	2	18"	54"
1"	8'-0"	2	18"	60"
1"	8'-6"	2	20"	62"
1"	9'-0"	2	22"	64"
1"	9'-6"	2	23"	68"
1"	10'-0"	2	24"	72"
1"	10'-6"	2	24"	78"
1"	11'-0"	2	24"	84"
1"	11'-6"	2	27"	84"
1"	12'-0"	2	30"	84"
1"	12'-6"	2	30"	90"
1"	13'-0"	2	30"	96"
1"	13'-6"	2	30"	102"
1"	14'-0"	2	30"	108"
1"	14'-6"	2	36"	102"
1"	15'-0"	2	36"	108"
2.5"	15'-6"	2	36"	114"
2.5"	16'-0"	2	39"	114"
2.5"	16'-6"	2	39"	120"
2.5"	17'-0"	2	39"	126"
2.5"	17'-6"	2	42"	126"
2.5"	18'-0"	2	42"	132"
2.5"	18'-6"	2	45"	132"
2.5"	19'-0"	2	45"	138"
2.5"	19'-6"	2	45"	144"
2.5"	20'-0"	2	48"	144"
2.5"	20'-6"	2	48"	150"
2.5"	21'-0"	2	51"	150"
2.5"	21'-6"	2	51"	156"
2.5"	22'-0"	2	51"	162"
2.5"	22'-6"	2	54"	162"
2.5"	23'-0"	2	54"	168"
2.5"	23'-6"	2	54"	174"
2.5"	24'-0"	2	57"	174"



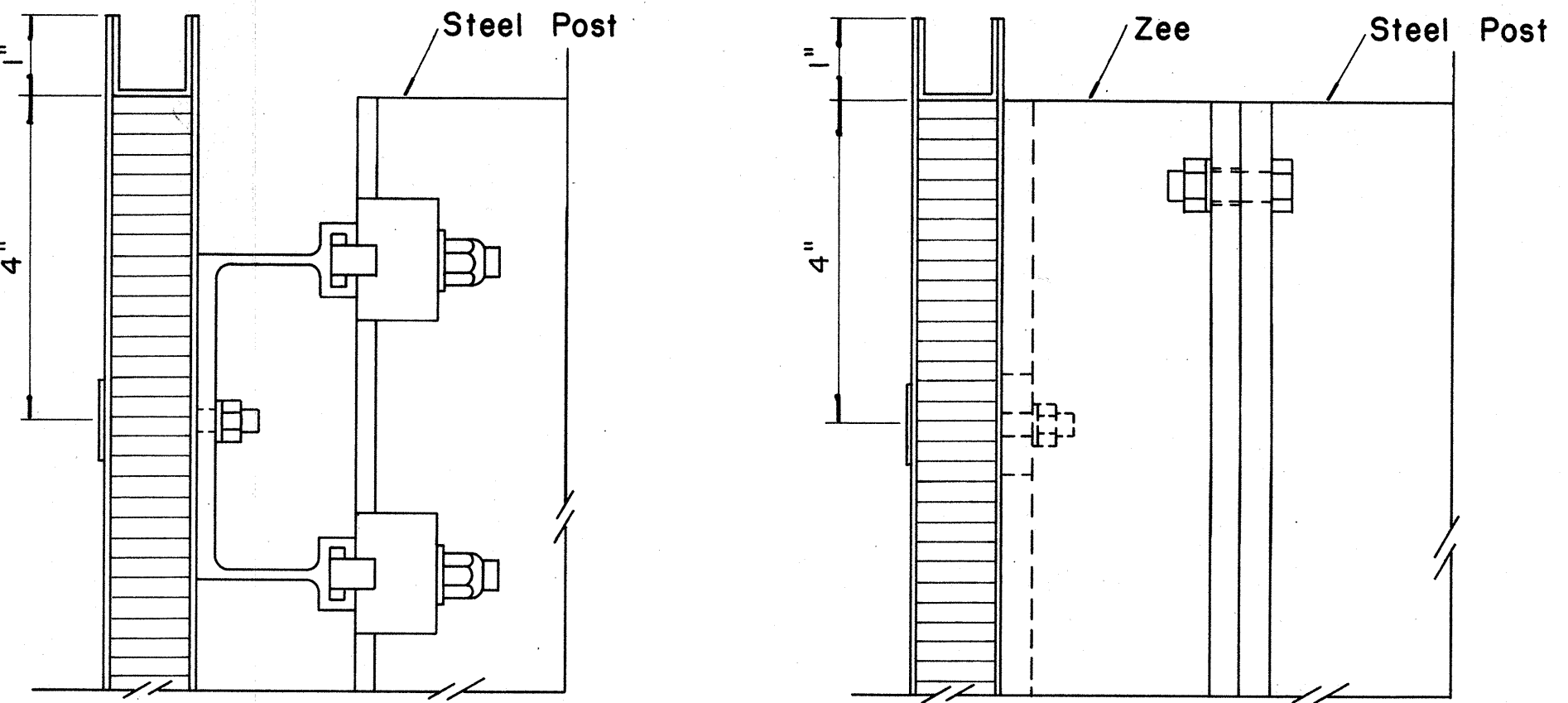
TYPICAL SIGN ASSEMBLY
Scale: $\frac{3}{4}$ " = 1' - 0"



SECTION "A-A"
Scale: $\frac{1}{2}$ " = 1"

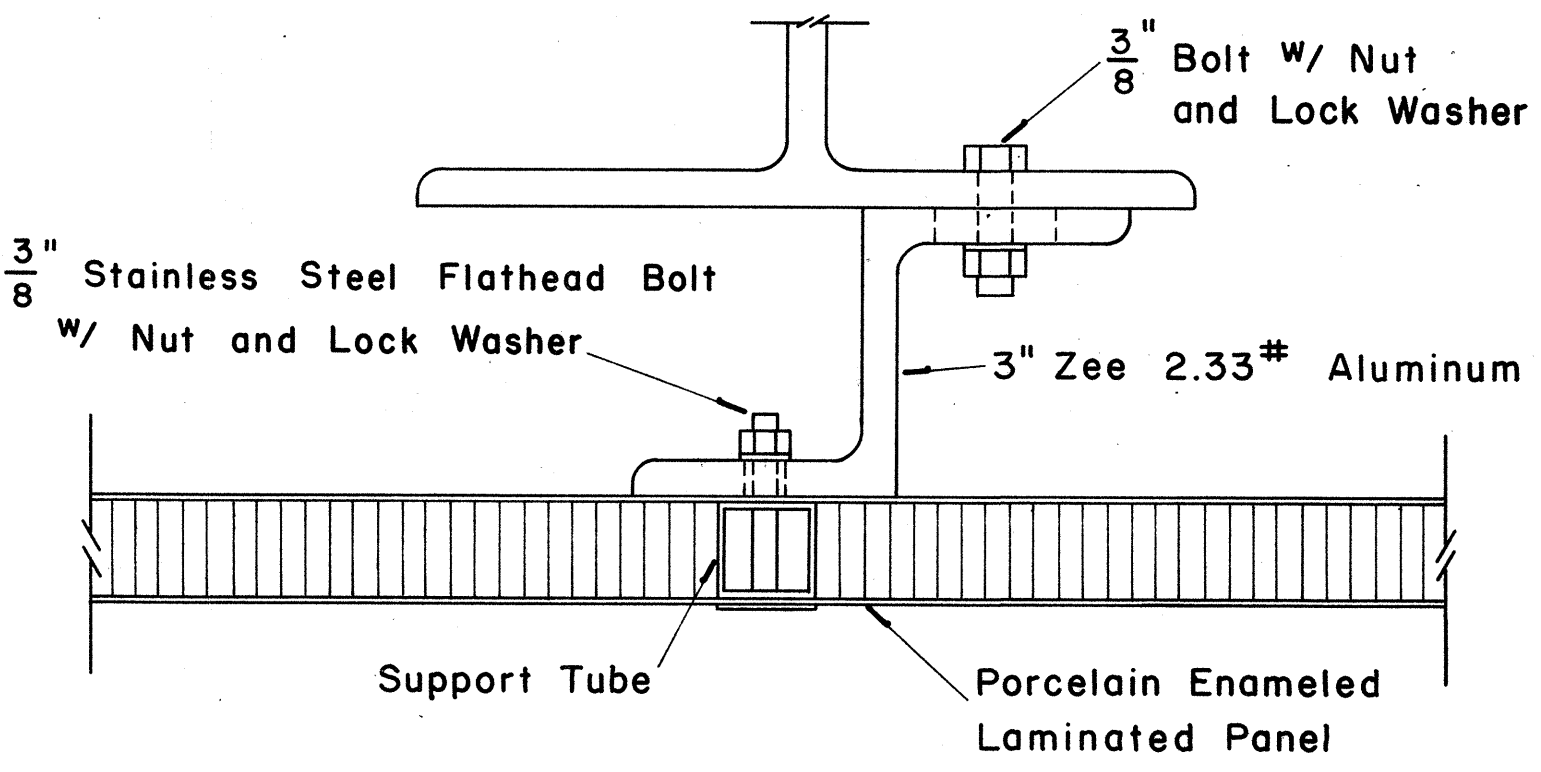


ZEE MOUNTING DETAILS
Scale: $\frac{1}{2}$ " = 1"

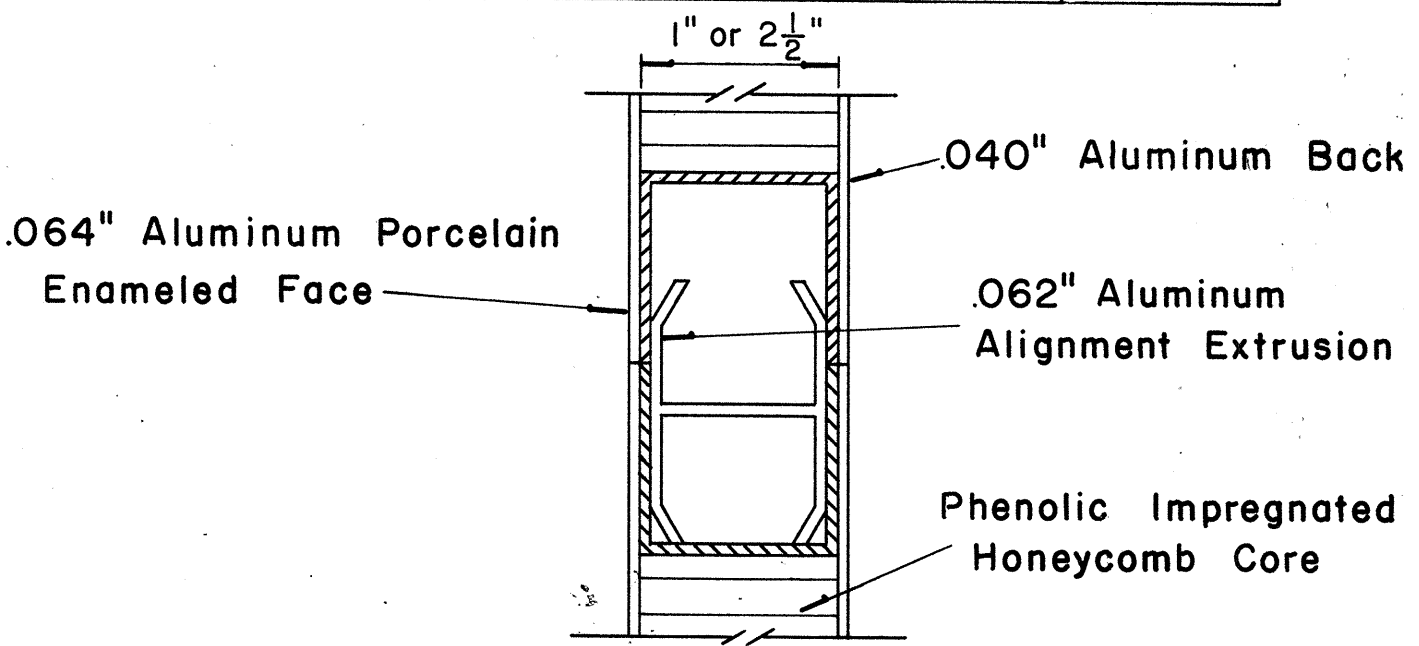


SECTION "B-B"
Scale: $\frac{1}{2}$ " = 1"

SECTION "B-B" (Alternate)
Scale: $\frac{1}{2}$ " = 1"



SECTION "A-A" (Alternate)
Scale: $\frac{1}{2}$ " = 1"

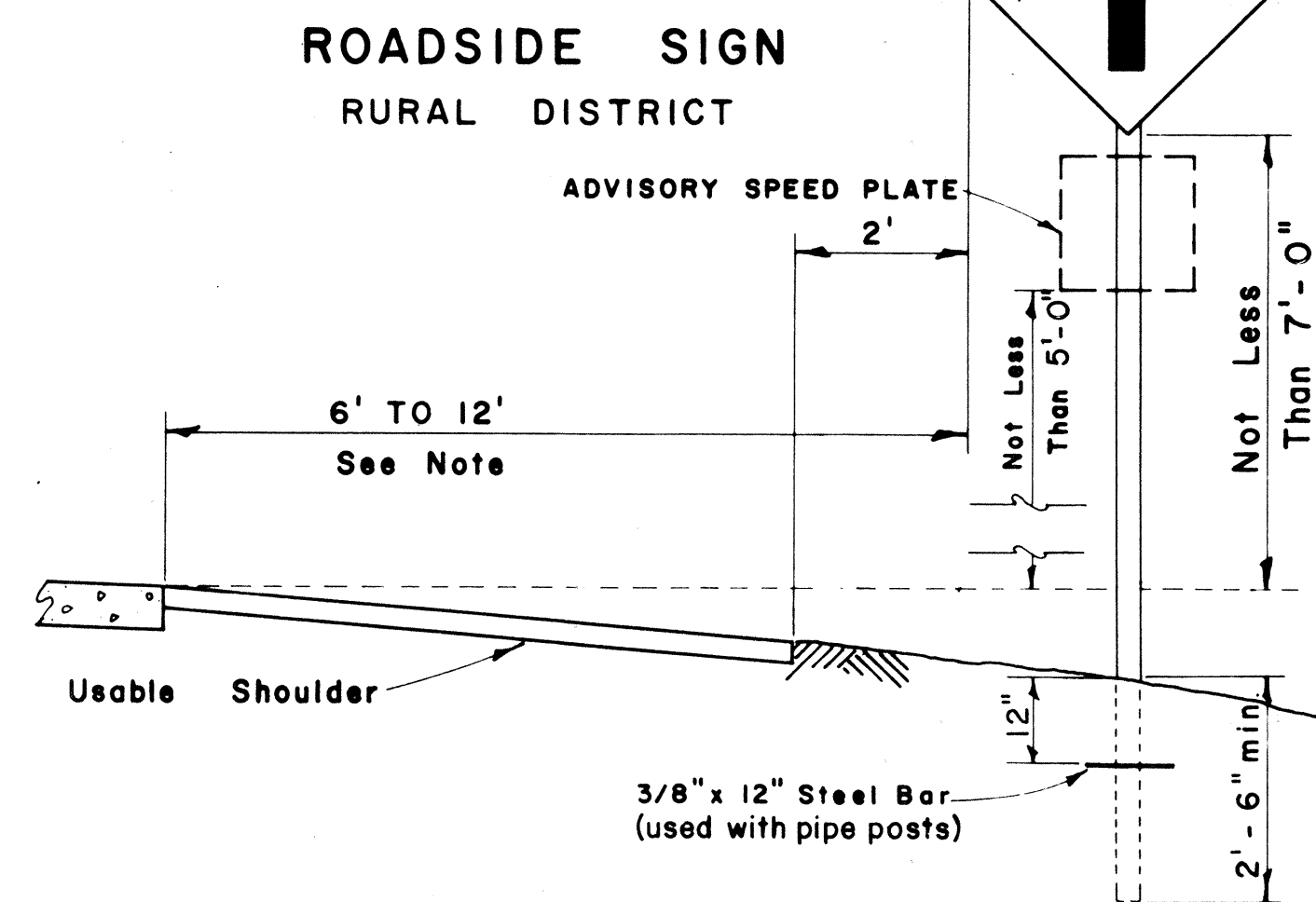
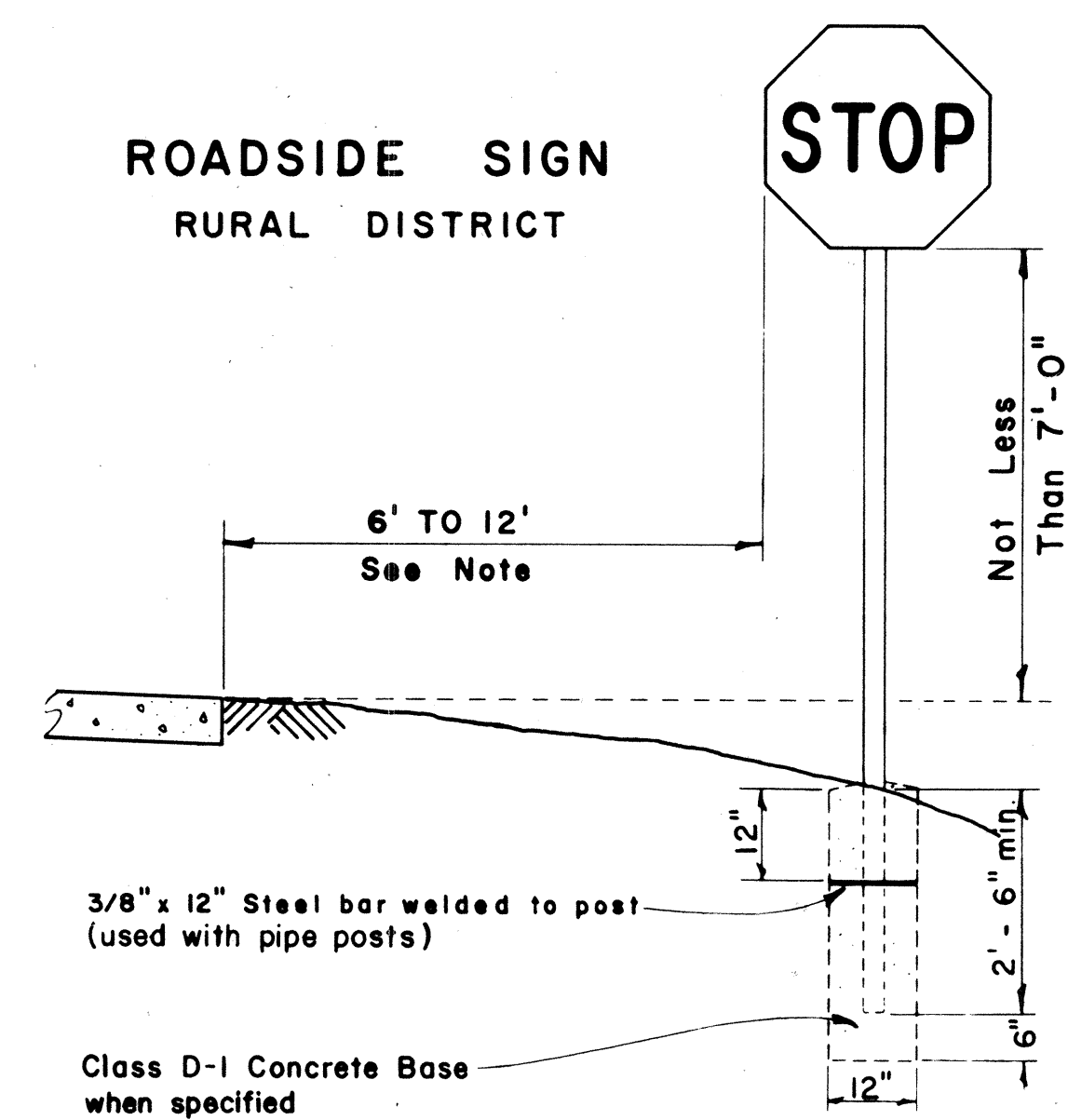


SECTION "C-C"
FULL SCALE

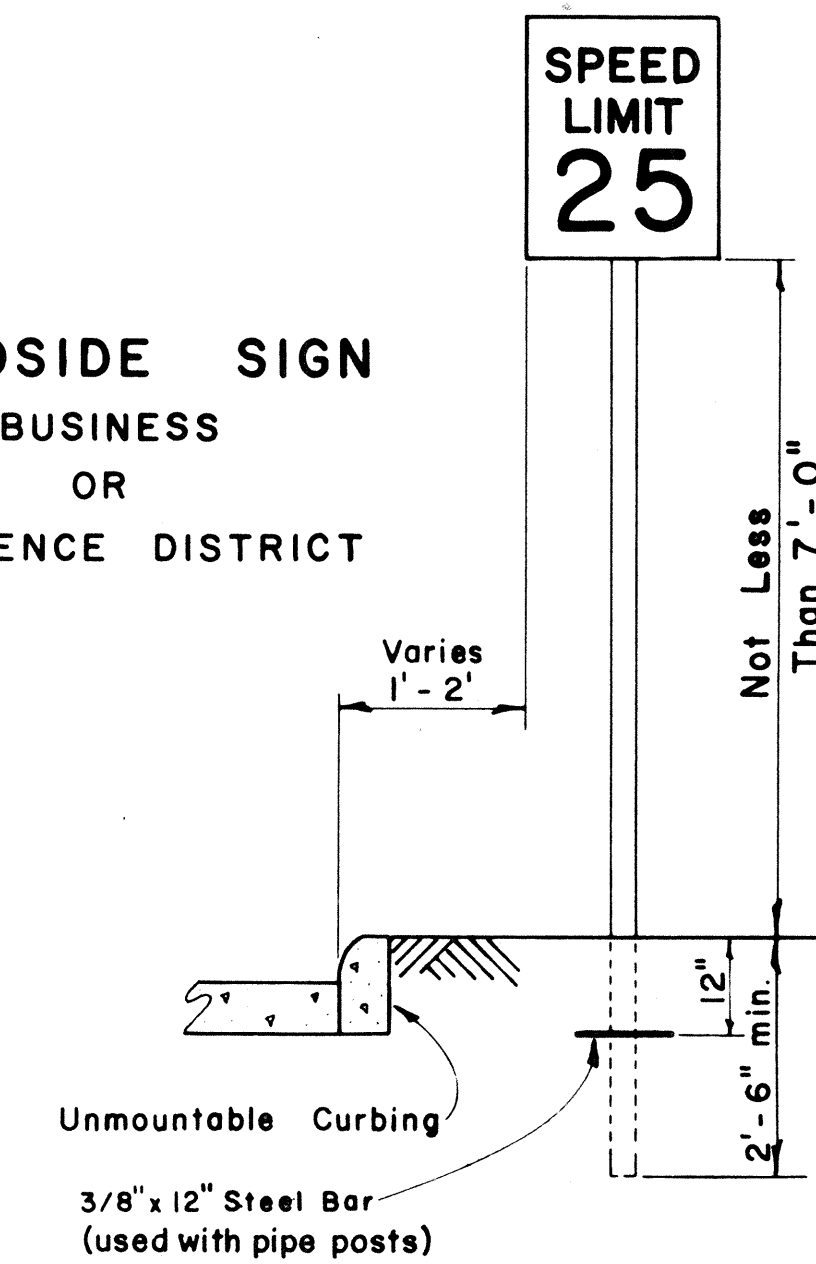
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
LAMINATED ALUMINUM
SIGN PANELS
(GROUND MOUNTED)
Scale: As Shown

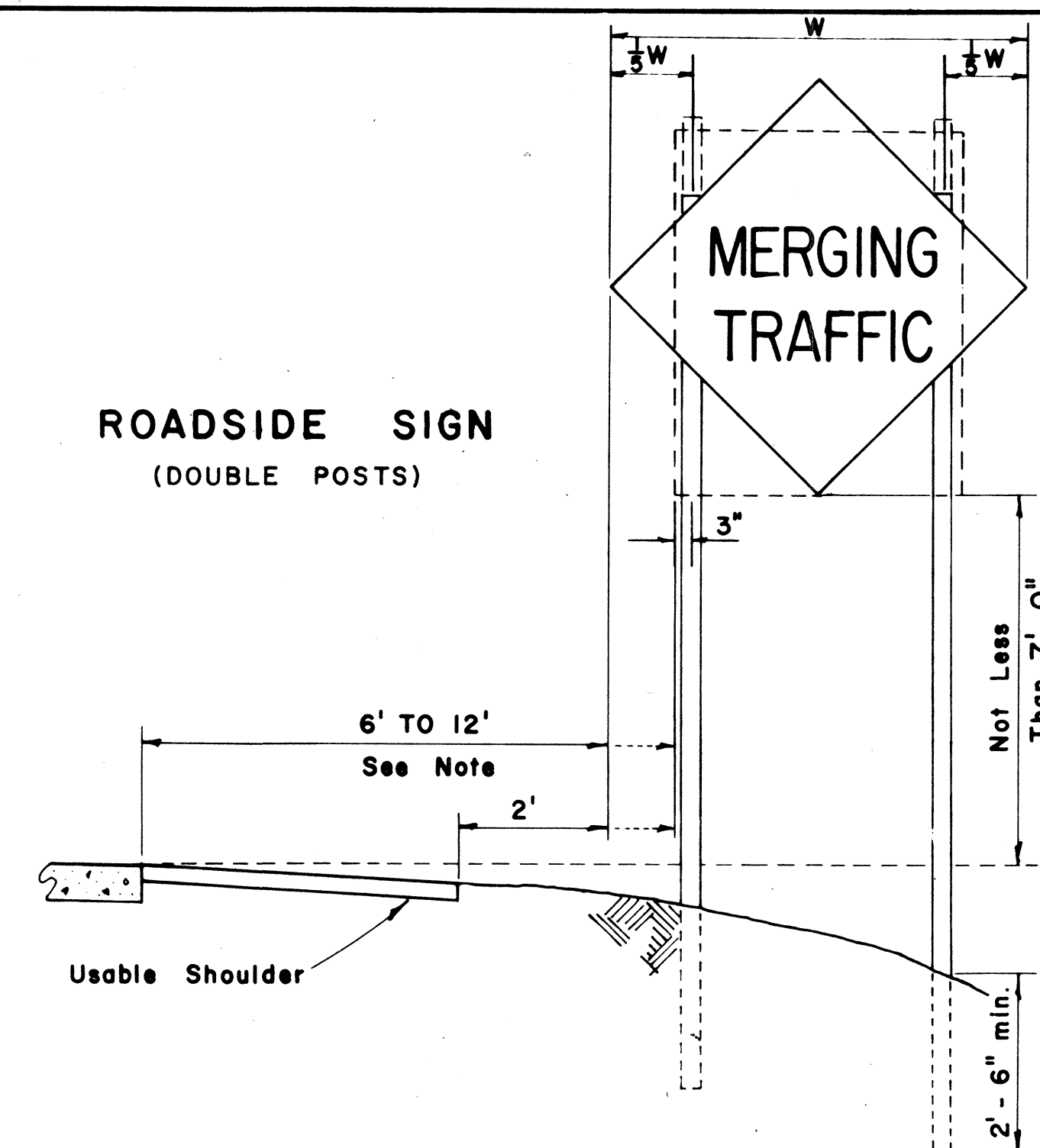
- NOTE:
1. All signs and road delineators shall be placed 2' outside the usable roadway shoulder or 1' outside unmountable curbing present and within the limits shown below.
 2. Except as noted below, sign posts shall be either 3" galv. std. pipe or 2 1/2" galv. square tube posts for signs larger than 24" in any dimension; 2" galv. std. pipe or 2" x 2" galv. square tube posts for signs 24" or less in any dimension.
 3. Sign shall be attached to post with 5/16" galvanized bolts with nuts and 7/8" x 7/8" x .120" stainless-steel washers with neoprene rubber gasket.
 4. Clearance Markers (RM-3, RM-4) shall be installed with the inside edge of the marker in line with the inner edge of the obstruction.
 5. Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two 3" galv. std. pipe or two 2 1/2" x 2 1/2" galv. square tube posts.



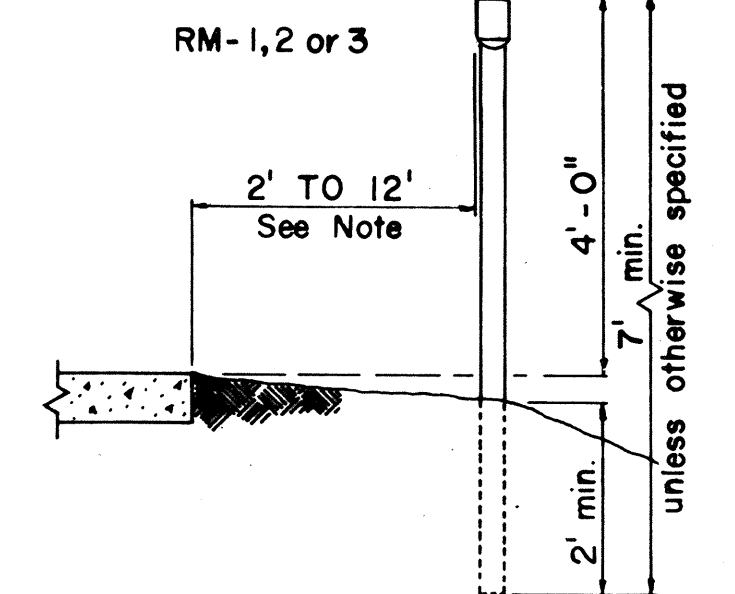
ROADSIDE SIGN
BUSINESS
OR
RESIDENCE DISTRICT



ROADSIDE SIGN
(DOUBLE POSTS)

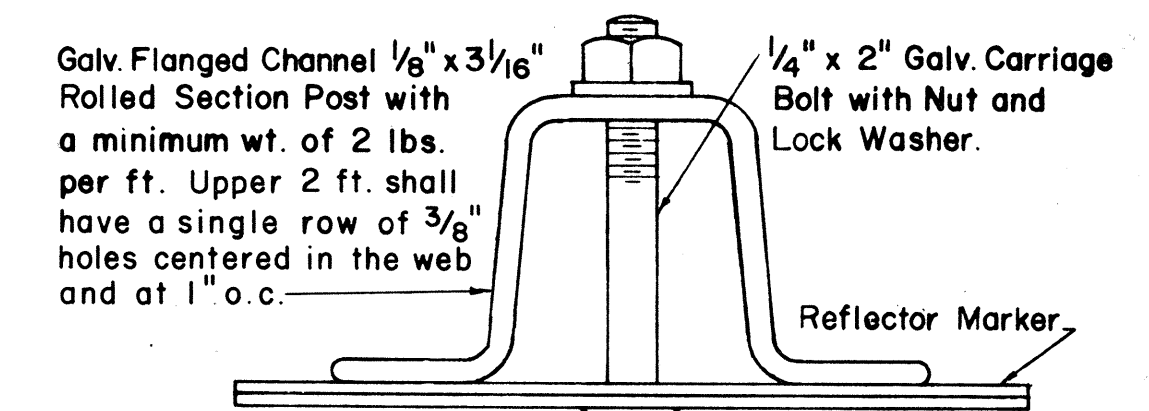


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(348)	1967	43	124

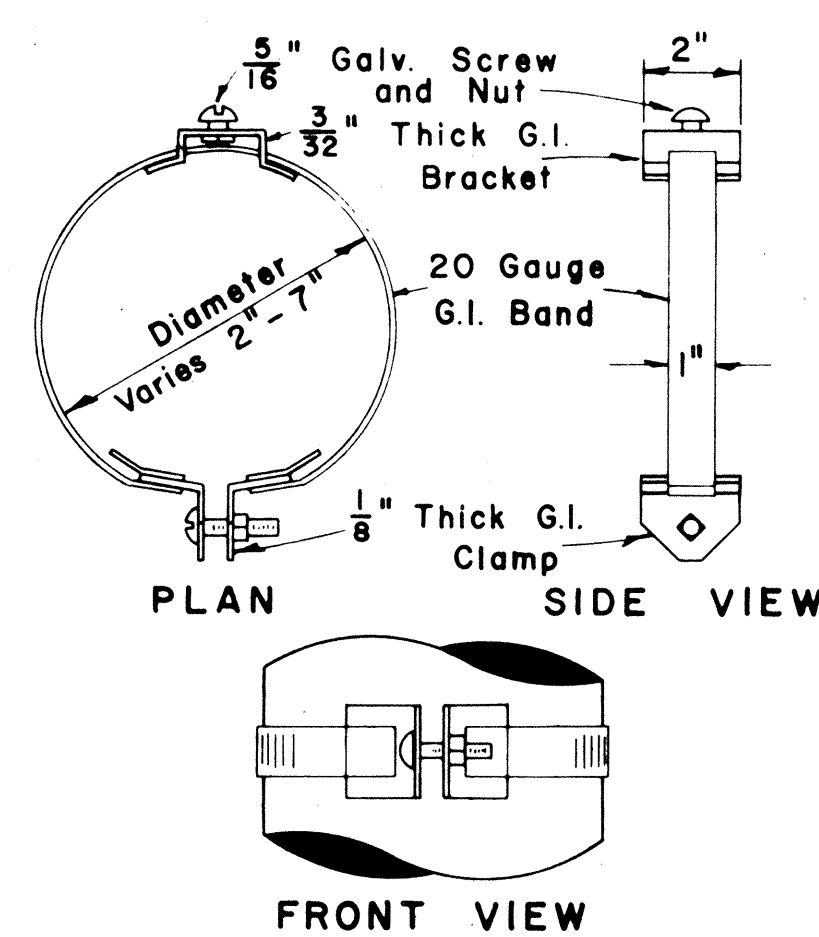
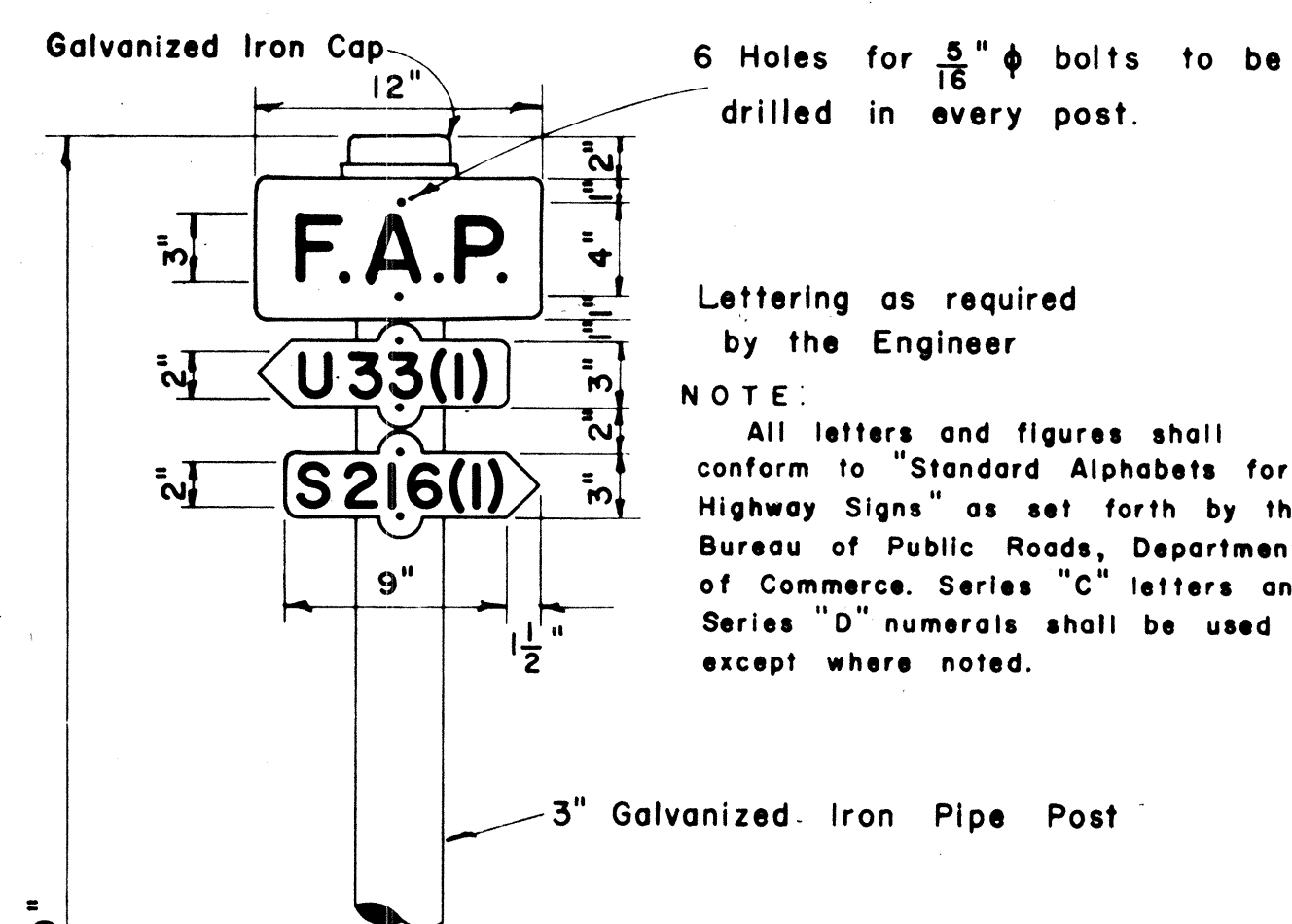


ROAD DELINEATOR

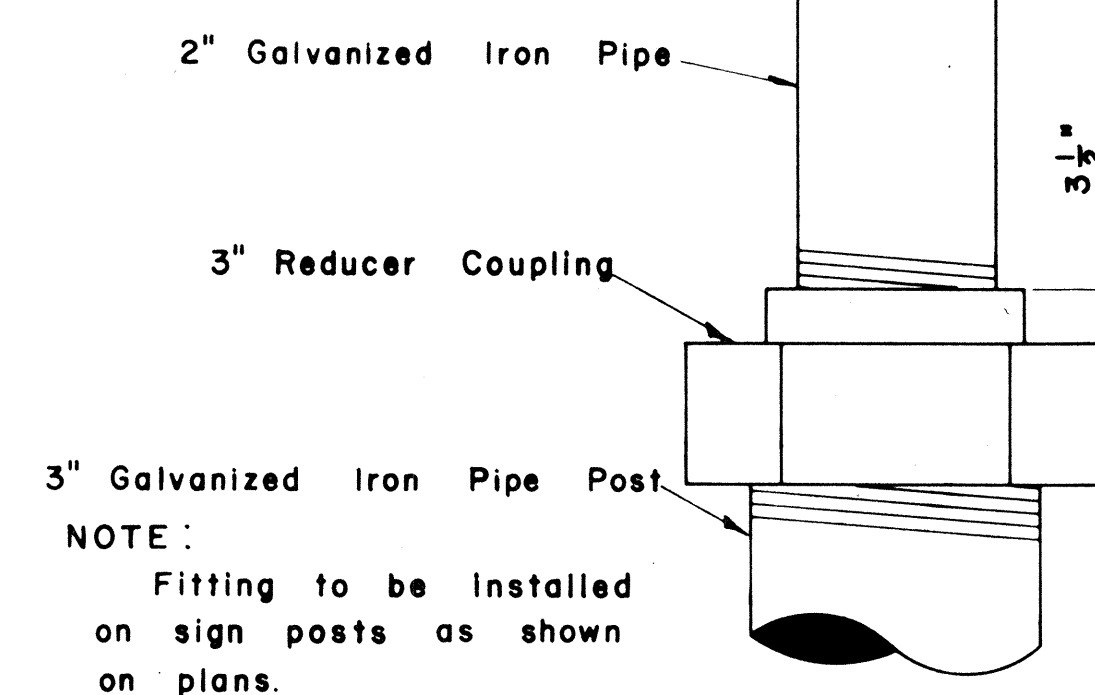
Scale: 1/2" = 1' - 0"



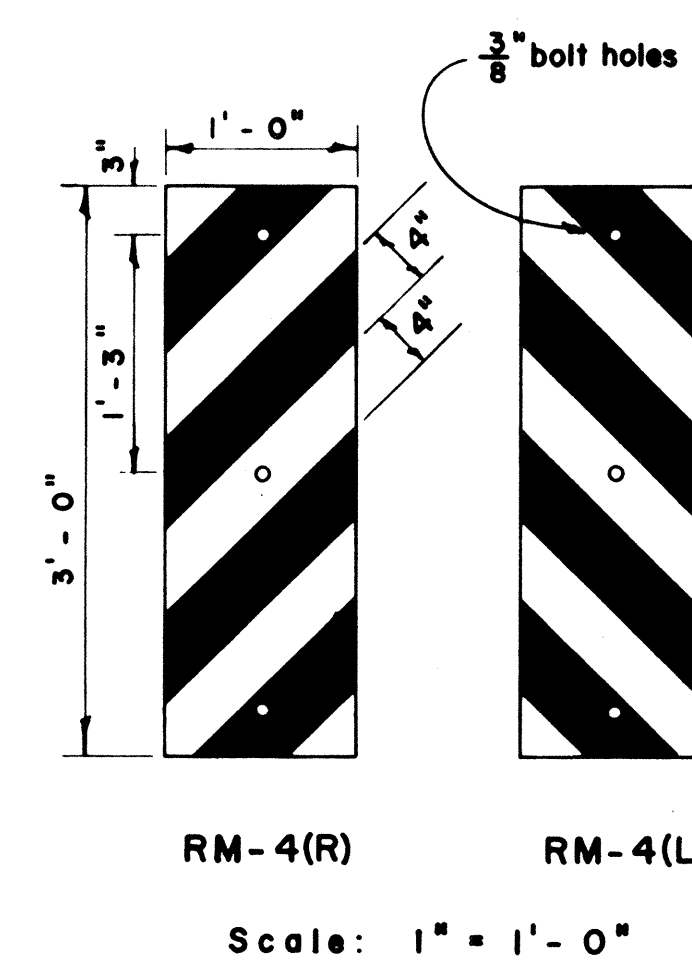
HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS



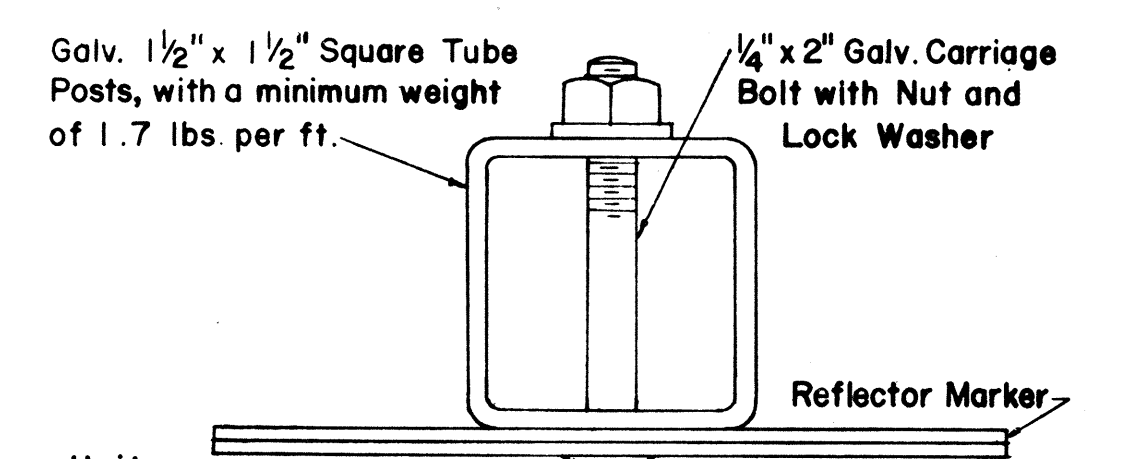
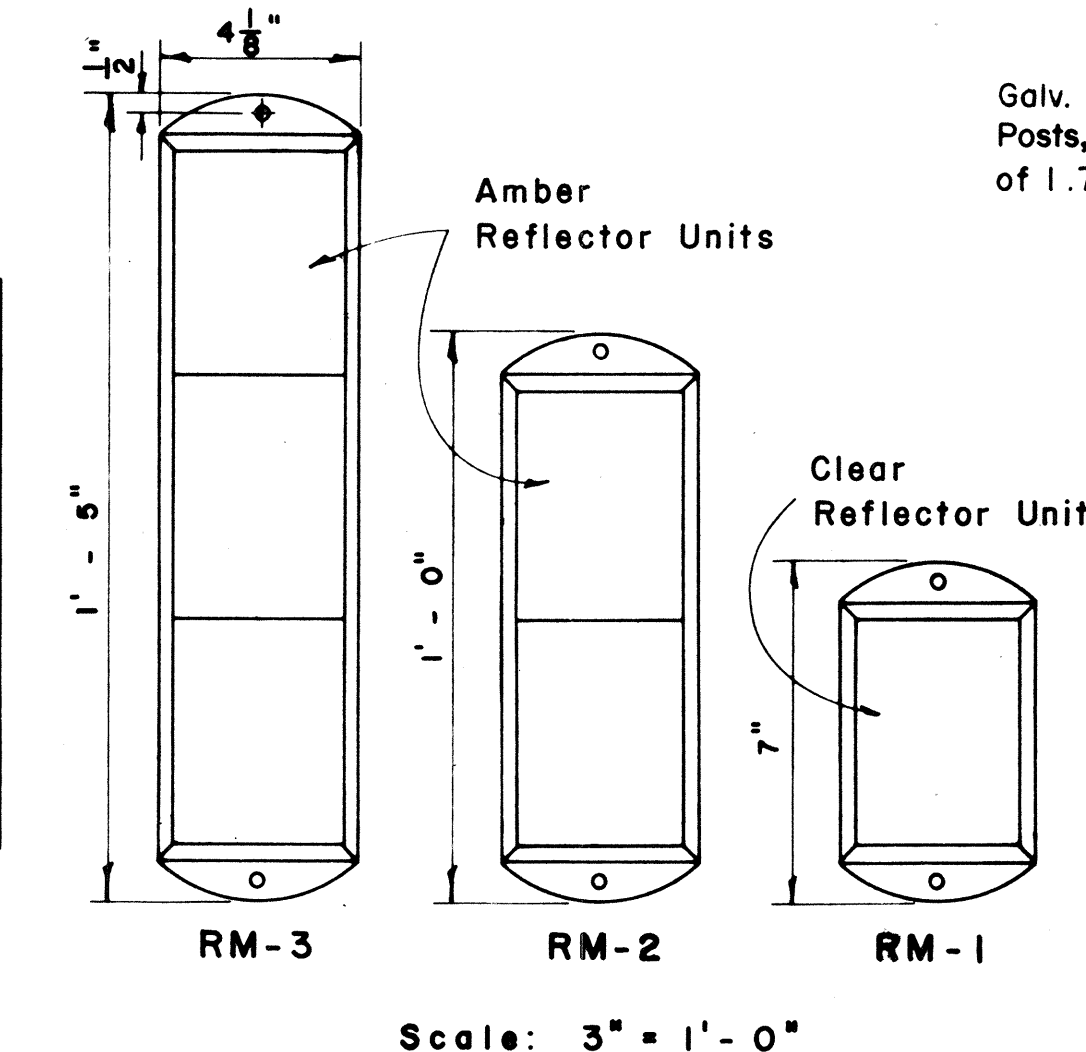
TYPICAL BAND BRACKET FOR MOUNTING TRAFFIC SIGNS
Scale: 3" = 1' - 0"



DETAIL OF SIGN POST FITTING FOR CITY & COUNTY STREET NAME SIGNS
Scale: 1/2" = 1'

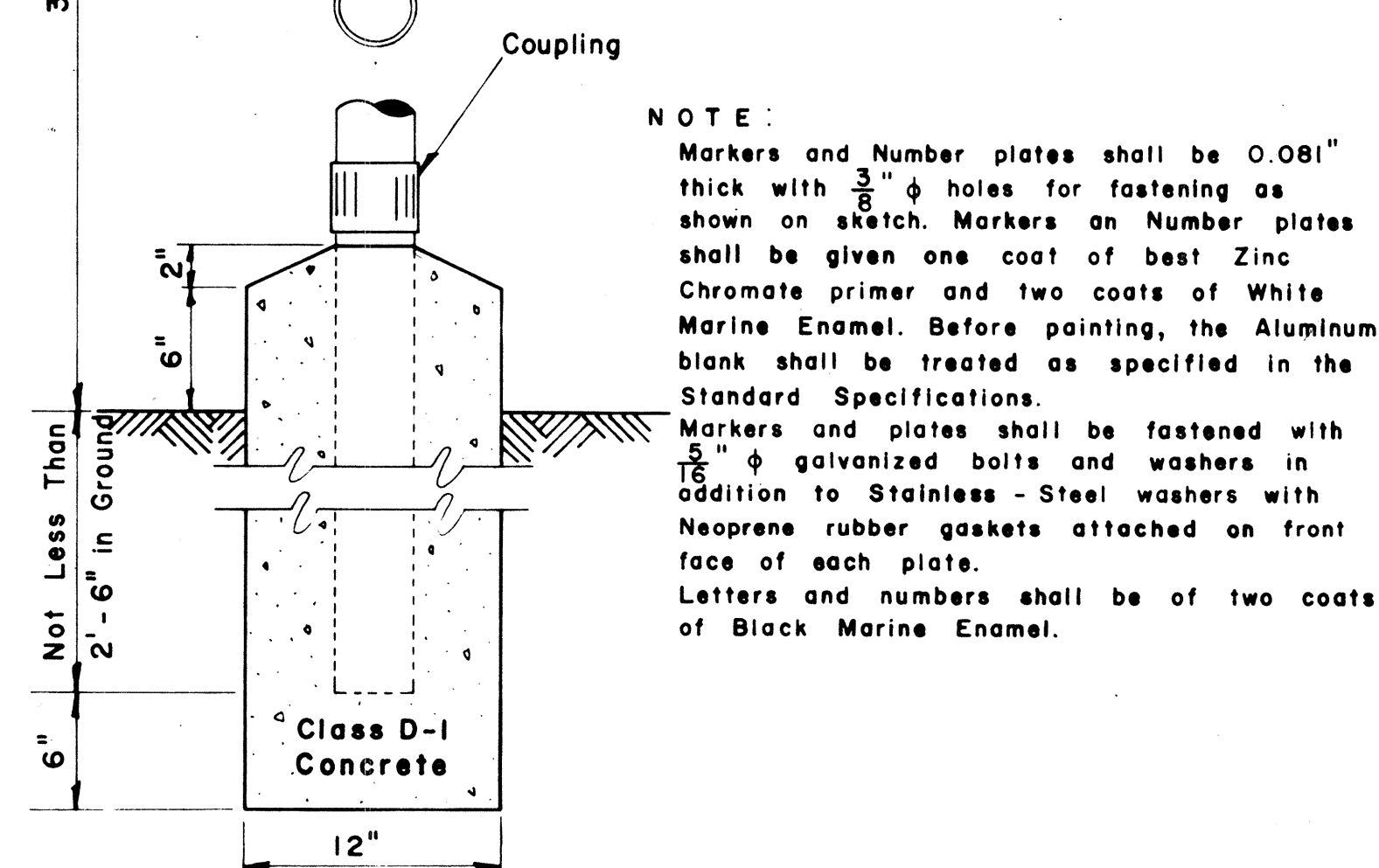


REFLECTOR MARKERS
Scale: As Shown



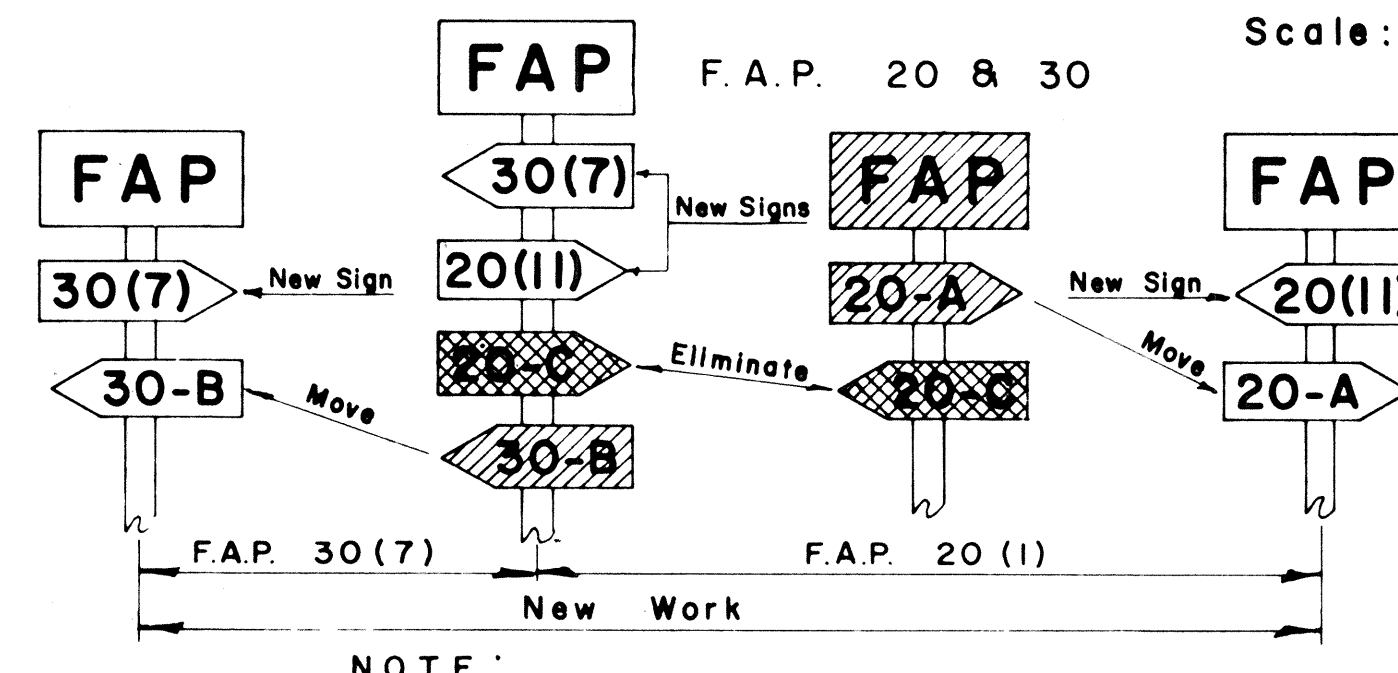
TYPICAL SECTION OF ROAD DELINEATOR
Full Size

NOTE: 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.

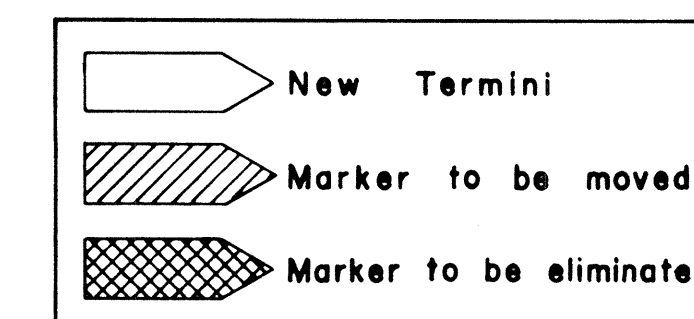
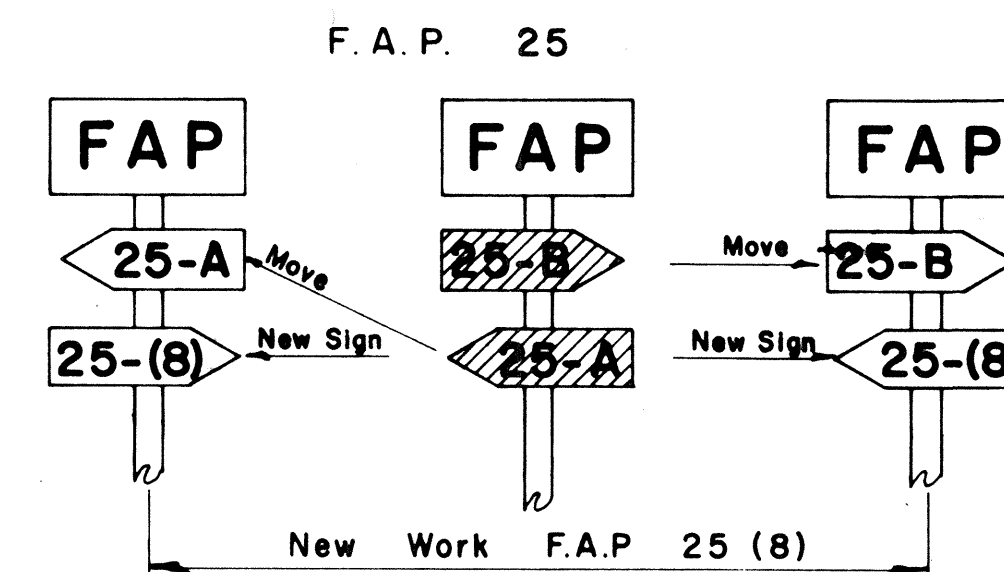


FEDERAL AID MARKER

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



METHOD OF MARKING F.A. PROJECTS AT OVERLAPS
(USING NUMBER SUFFIX ON NEW WORK)

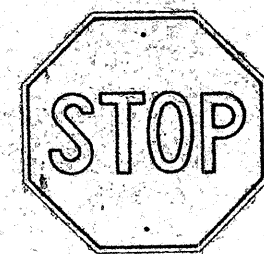


APPROVED: _____ DATE: 1/10/67
DIRECTOR OF TRANSPORTATION

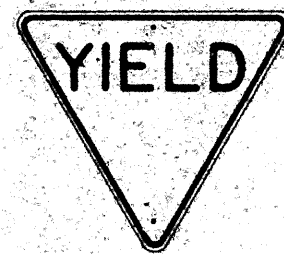
JANUARY 27, 1967
DECEMBER 8, 1964
REVISED: FEBRUARY 25, 1964

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
F.A. MARKER
AND
MISCELLANEOUS SIGN
DETAILS
Scale: As Shown

SHEET No. OF SHEETS



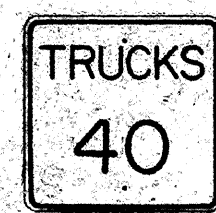
R1-1 30"x 30"



R1-2 36"x 36"x 36"
R1-2-E 48"x 48"x 48"
R1-2-I 60"x 60"x 60"



R2-1(50) 24"x 30"
R2-1(50)-E 36"x 48"
R2-1(50)-I 48"x 60"



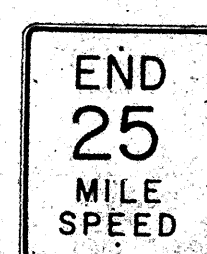
R2-2(40) 24"x 24"
R2-2(40)-E 36"x 36"
R2-2(40)-I 48"x 48"



R2-4(40) 24"x 30"
R2-4(40)-E 36"x 48"
R2-4(40)-I 48"x 60"



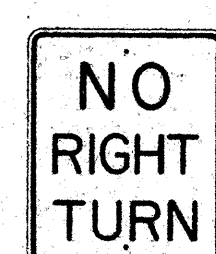
R2-5 24"x 30"
R2-5-E 36"x 48"
R2-5-I 48"x 60"



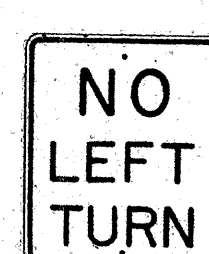
R2-6(25) 24"x 30"
R2-6(25)-E 36"x 48"
R2-6(25)-I 48"x 60"



R2-7 24"x 30"
R2-7-E 36"x 48"
R2-7-I 48"x 60"



R3-1 24"x 30"
R3-1-E 36"x 48"



R3-2 24"x 30"
R3-2-E 36"x 48"



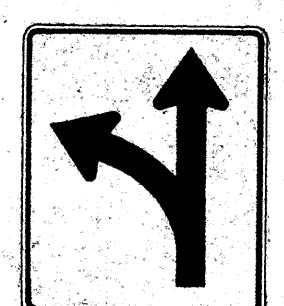
R3-3 24"x 24"



R3-4 24"x 30"
R3-4-E 36"x 48"
R3-4-I 48"x 60"



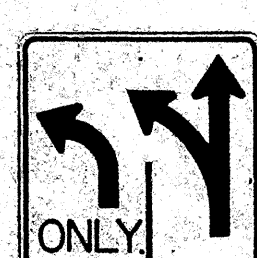
R3-5(L) 30"x 36"



R3-6(L) 30"x 36"



R3-7(R) 30"x 30"



R3-8(L) 30"x 30"



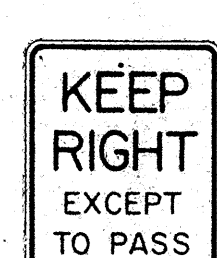
R4-1 24"x 30"



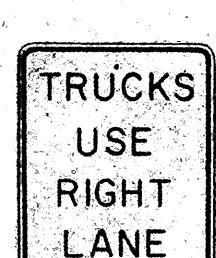
R4-2 24"x 30"



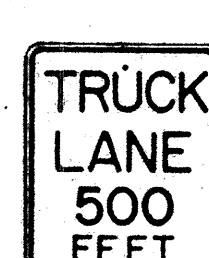
R4-3 24"x 30"
R4-3-E 36"x 48"
R4-3-I 48"x 60"



R4-4 24"x 30"
R4-4-E 36"x 48"
R4-4-I 48"x 60"



R4-5 24"x 30"
R4-5-E 36"x 48"



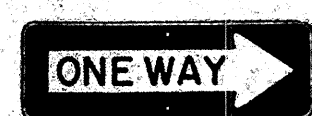
R4-6 24"x 30"
R4-6-E 36"x 48"



R4-7(R) 24"x 30"
R4-7(R)-E 36"x 48"



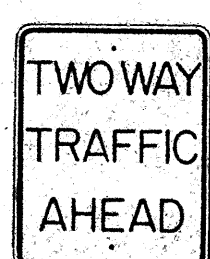
R5-1 24"x 24"



R6-1(R) 36"x 12"



R6-2(R) 18"x 24"



R6-3 24"x 30"



R6-4 24"x 30"



R6-5 24"x 30"



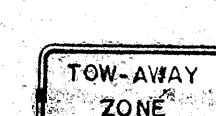
R7-1 12"x 18"



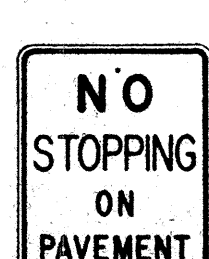
R7-4 12"x 18"
R7-4-E 24"x 30"



R7-107(R) 12"x 18"



R7-201 12"x 6"



R8-1 24"x 30"
R8-1-E 36"x 48"
R8-1-I 48"x 60"



R8-2 24"x 30"
R8-2-E 36"x 48"



R8-3 24"x 30"
R8-3-E 36"x 48"



R8-4 24"x 30"
R8-4-E 36"x 48"
R8-4-I 48"x 36"



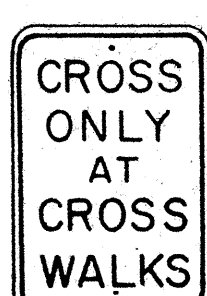
R9-1 18"x 24"



R9-2 12"x 18"



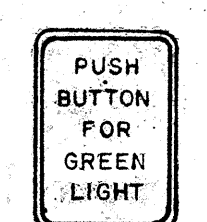
R9-3 12"x 18"



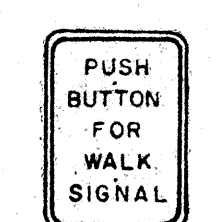
R9-4 12"x 18"



R9-5 12"x 18"



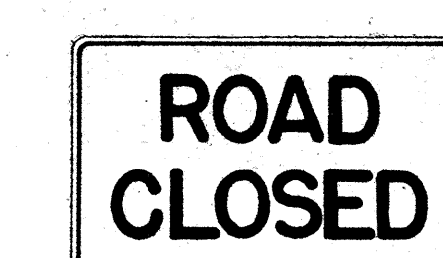
R9-6 9"x 12"



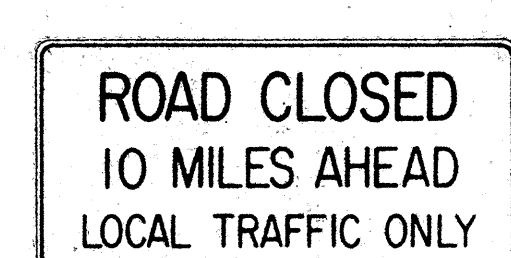
R9-7 9"x 12"



R10-1 24"x 30"
R10-1-E 36"x 48"
R10-1-I 48"x 60"



R10-2 48"x 30"



R10-3(10) 60"x 30"



R10-4(10) 18"x 24"

NOTE:

1. The shape, color, dimensions, symbols, wording, lettering and reflectorization of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961 unless otherwise specified.
2. All regulatory signs shall be reflectorized unless otherwise specified.
3. All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations unless otherwise noted.
4. The suffix "E" denotes Expressway signs and "I" denotes Interstate signs.
5. For R2 signs, number in () indicates speed and shall be as shown on the plans.
6. (R) or (L) indicates right or left and shall be as shown on the plans.
7. For R10-4 sign, number in () indicates weight and shall be as shown on the plan.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
REGULATORY SIGNS

NOT TO SCALE

SHEET No. OF SHEETS

W1-1(R) 30" x 30"

W1-2(R) 30" x 30"

W1-3(R) 30" x 30"

W1-4(R) 30" x 30"

W1-5(R) 30" x 30"

W1-6 48" x 24"

W1-7 48" x 24"

W2-1 30" x 30"

W2-2 30" x 30"

W2-3(R) 30" x 30"

W2-4 30" x 30"

W2-5 30" x 30"

W3-1 30" x 30"

W3-2 30" x 30"

W3-3 36" x 36"

W4-1 30" x 30"

W4-1-E 36" x 36"

W4-1-I 48" x 48"

W4-2 30" x 30"

W4-2-E 36" x 36"

W5-1 30" x 30"

W5-1-E 36" x 36"

W5-2 30" x 30"

W5-3 30" x 30"

W6-1 36" x 36"

W6-2 36" x 36"

W7-1 30" x 30"

W8-1 30" x 30"

W8-2 30" x 30"

W8-3 30" x 30"

W8-4 30" x 30"

W8-5 30" x 30"

W9-1 30" x 30"

W9-2 30" x 30"

W10-1 36" DIAMETER

W11-1 30" x 30"

W11-5 30" x 30"

W12-2 36" x 36"

W13-1(35) 18" x 18"

W13-2(25) 12" x 18"

W13-3(25) 48" x 60"

- NOTE:
- The shape, color, dimensions, symbols, wording, lettering and reflectorization of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961 unless otherwise specified.
 - All warning signs shall be reflectorized unless otherwise specified.
 - All warning signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.
 - (R) or (L) indicates right or left and shall be as shown on the plan.
 - The suffix "E" denotes Expressway signs and "I" denotes Interstate signs.
 - For W13 sign, number in () indicates speed and shall be as shown on the plans.

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NO.	

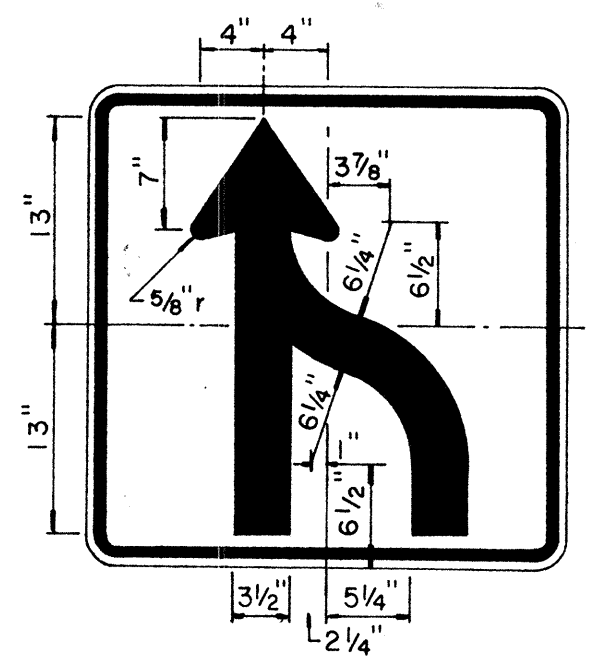
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
WARNING SIGNS

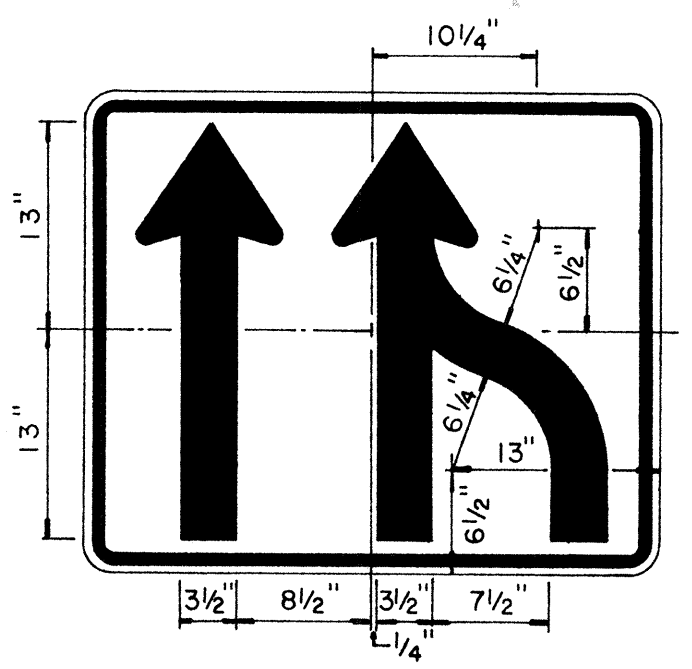
NOT TO SCALE

SHEET No. 45 OF 129 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	74-1(348)	1967	46	124



R3-9 30"x 30"

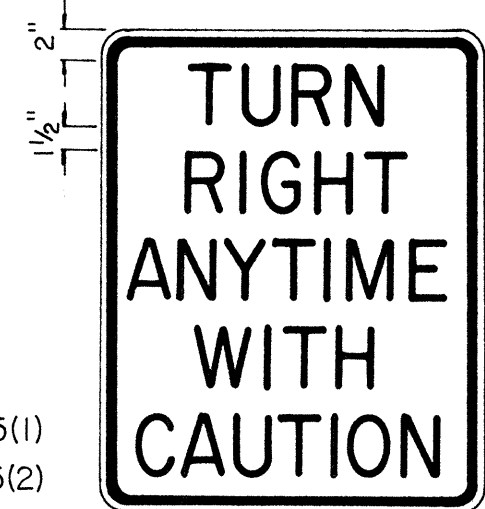


R3-10 36"x 30"

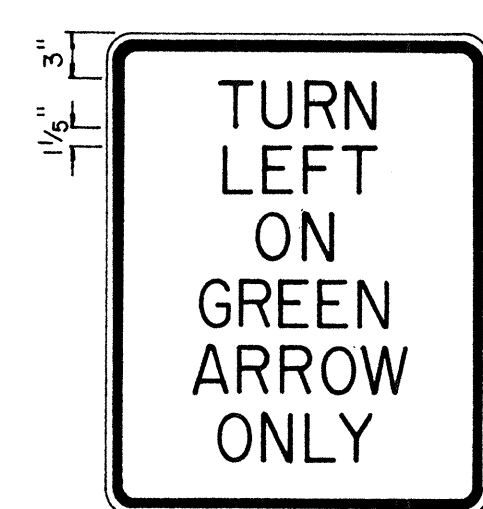


R5-5(1) 24" x 18"
R5-5(2) 36" x 24"

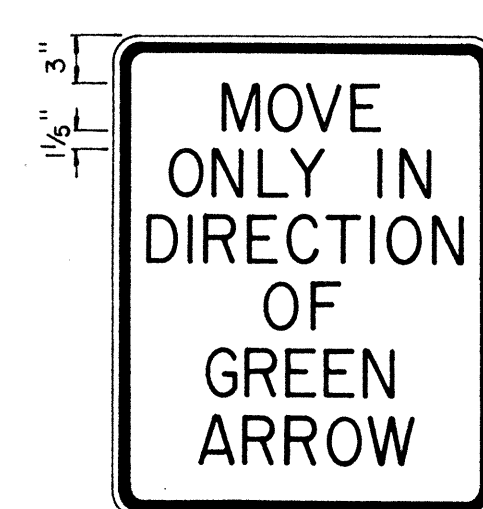
NOTE:
White legend and border
on Red background.



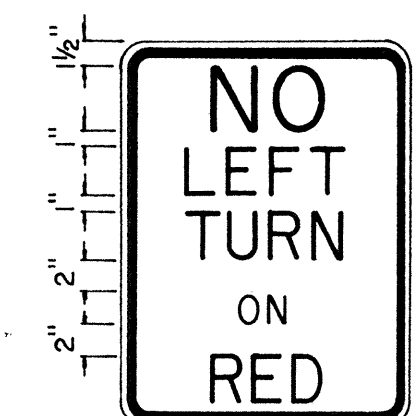
R15-1 24" x 30"



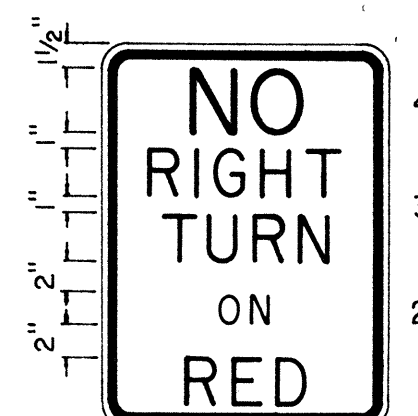
R16-1 24" x 30"



R16-2 24" x 30"



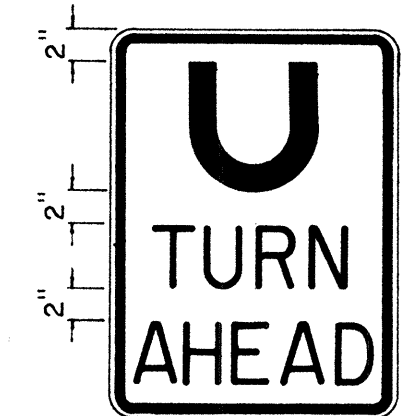
R17-1 18" x 24"



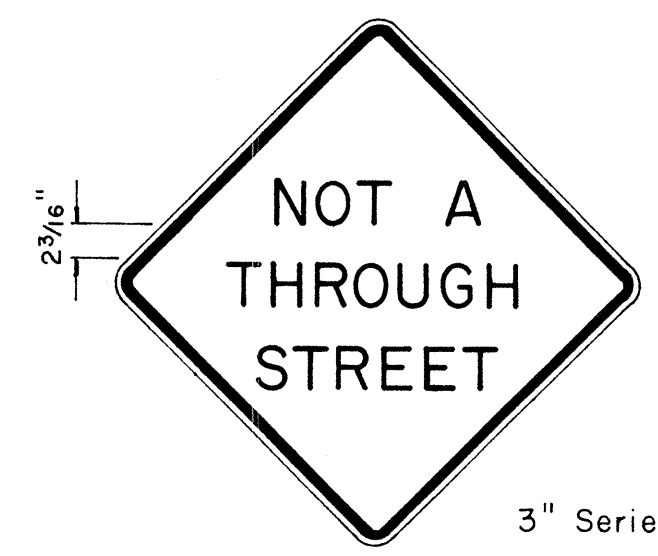
R17-2 18" x 24"



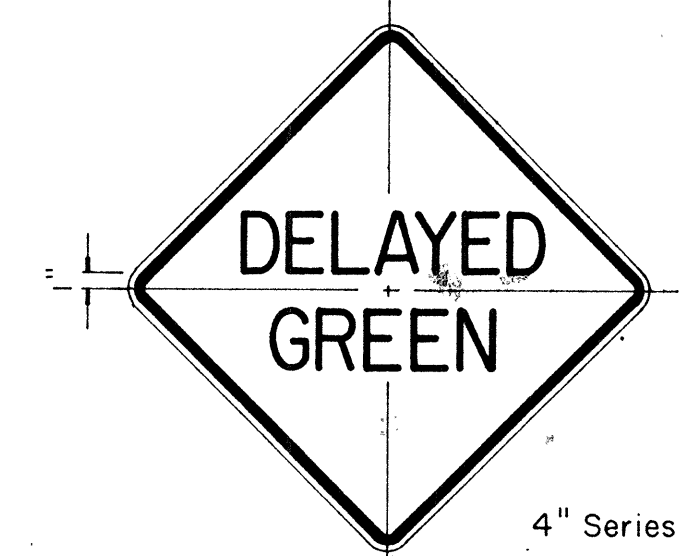
R18-1 36" x 30"



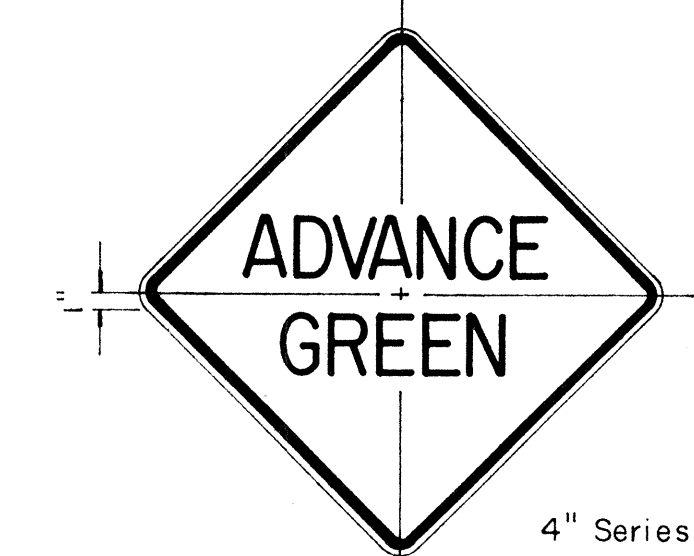
R19-1 18" x 24"



W13-4 24" x 24"



W15-1 24" x 24"



W15-2 24" x 24"

NOTE:

1. The shape, color, plate details, lettering and reflectorization of Regulatory signs (Prefix R) and Warning signs (Prefix W) shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961 unless otherwise specified.
2. All regulatory and warning signs shall be reflectorized unless otherwise specified.
3. All regulatory and warning signs shall have 3/8" bolt holes drilled at appropriate locations unless otherwise specified.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

MISCELLANEOUS

REGULATORY & WARNING SIGNS

Scale: 1" = 1' - 0"

SHEET No. OF SHEETS



W 7-2 48" x 48"



W 8-7 30" x 30"



W 14-1 30" x 30"



W 20-1a 48" x 48"



W 20-2d 48" x 48"



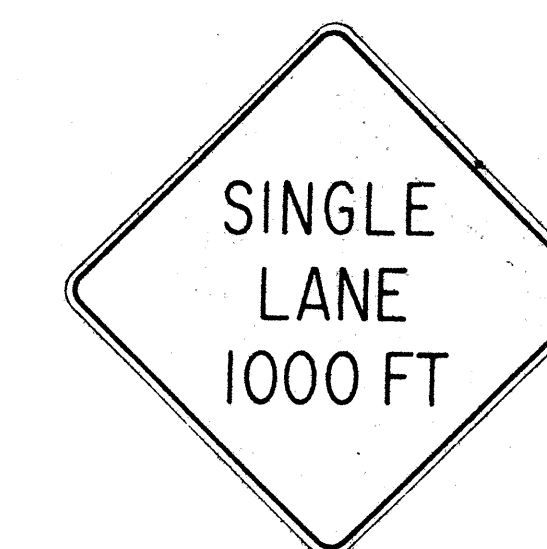
W 20-3b 48" x 48"



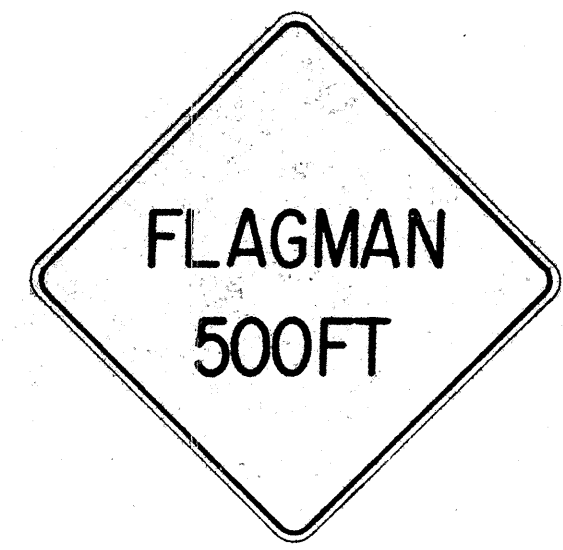
W 20-4d 48" x 48"



W 20-5d(L) 48" x 48"



W 20-6b 48" x 48"



W 20-7c 48" x 48"



W 21-1 30" x 30"



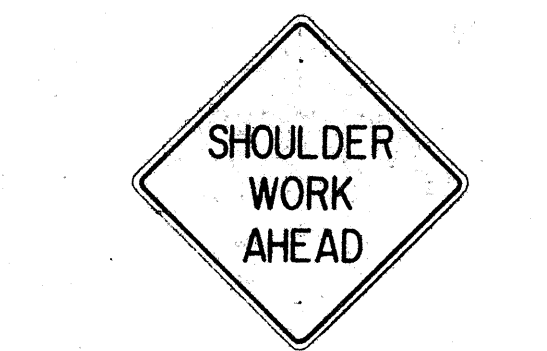
W 21-2 24" x 24"



W 21-3 36" x 36"



W 21-4 30" x 30"



W 21-5 30" x 30"



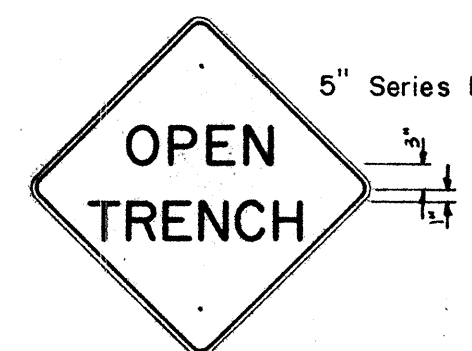
W 21-6 30" x 30"



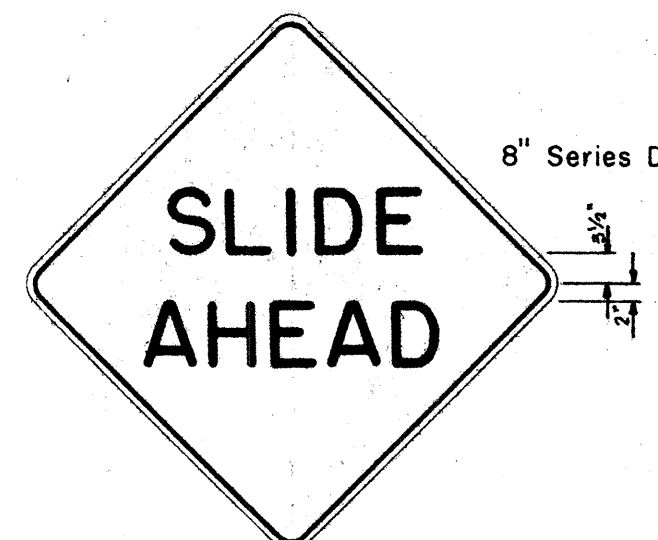
W 22-1 30" x 30"



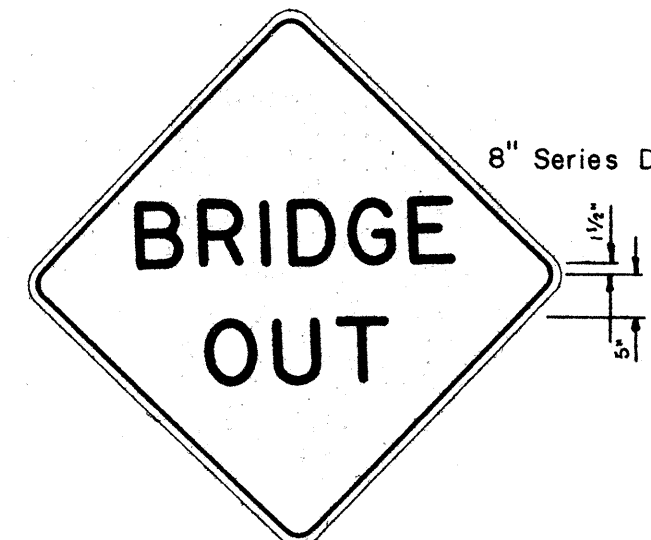
W 22-2 30" x 30"



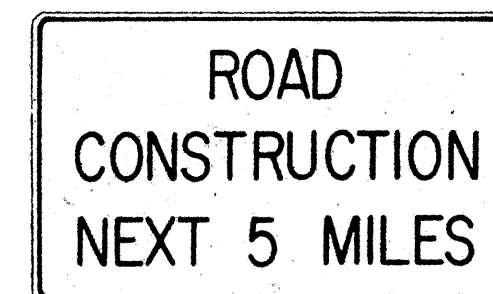
W 22-3 30" x 30"



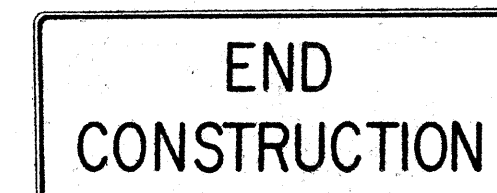
W 22-4 48" x 48"



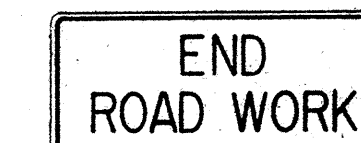
W 22-5 48" x 48"



G 20-1(5) 60" x 36"



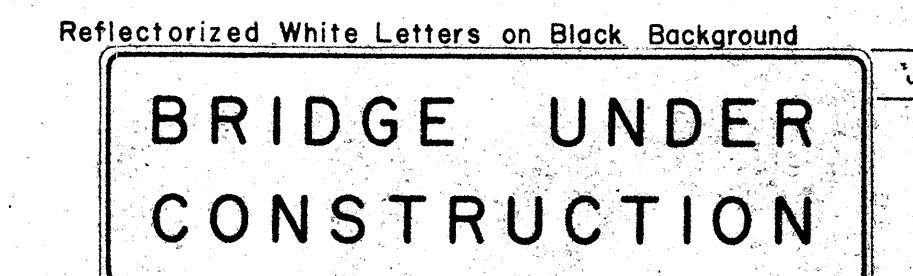
G 20-2 60" x 24"



G 20-3 42" x 18"



M 5-7(L) 48" x 18"



CW-1 96" x 30"

NOTE:

1. The shape, color, dimensions, symbols, wording, lettering and reflectorization of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961 unless otherwise specified.
2. All signs shall be reflectorized unless otherwise specified.
3. All signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.
4. For W 20 series signs, suffixes a,b,c and d are as follows a 1500 FT, b 1000 FT, c 500 FT and d AHEAD
5. (R) or (L) indicates right or left and shall be as shown on the plans.
6. Number in () indicates miles and shall be as shown on the plans.

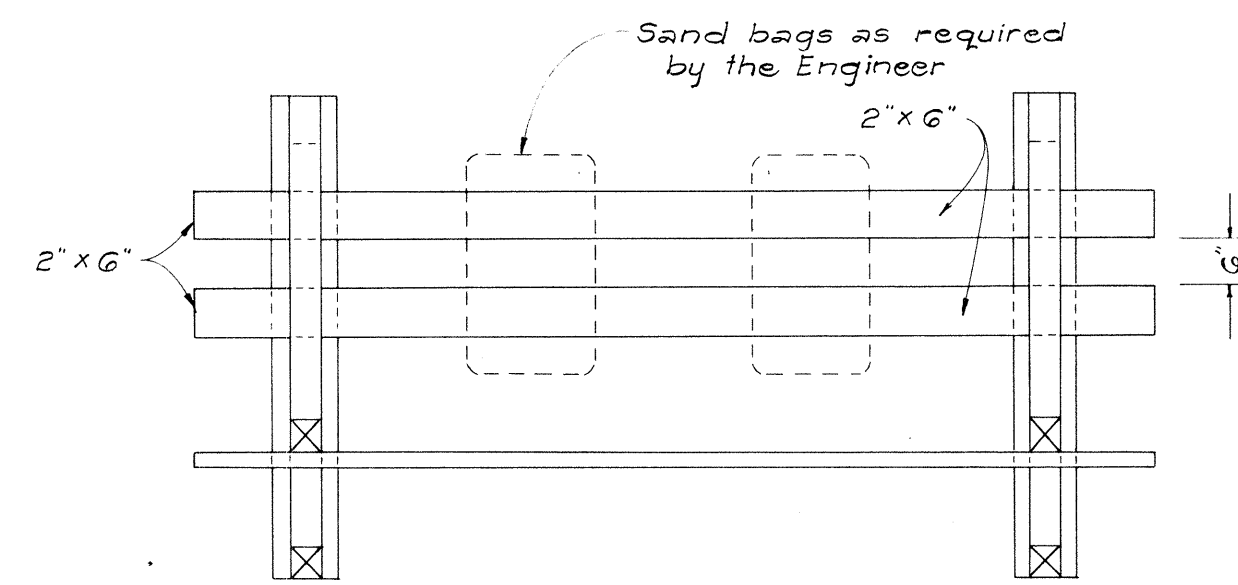
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
CONSTRUCTION SIGNS

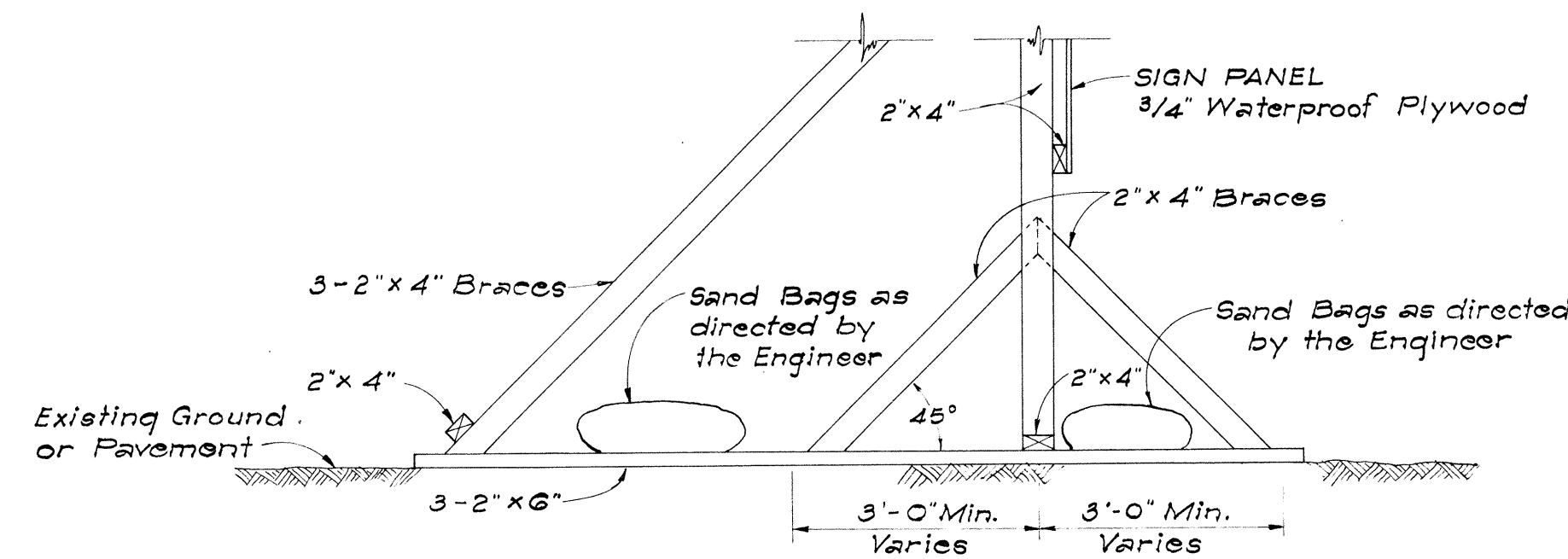
NOT TO SCALE

SHEET No. OF SHEETS

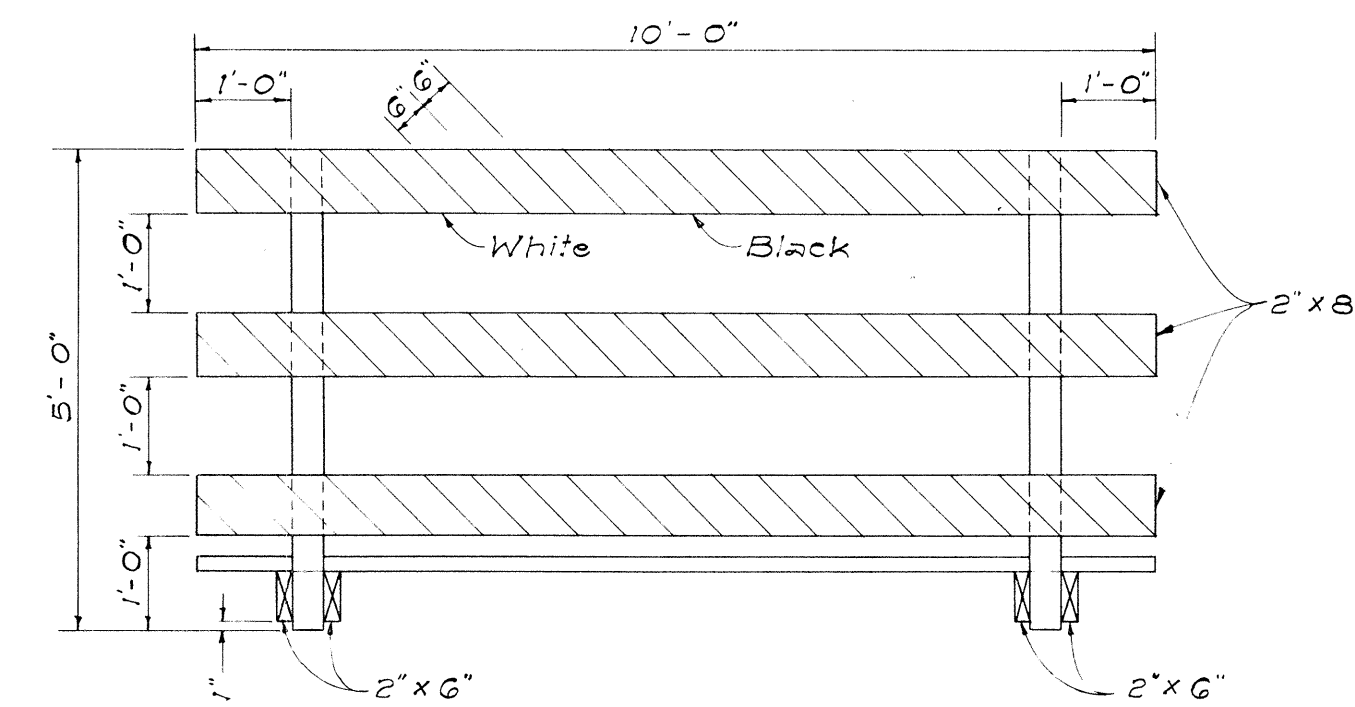
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	" "
No.	DESIGNED BY	" "
	QUANTITIES BY	" "
	CHECKED BY	" "



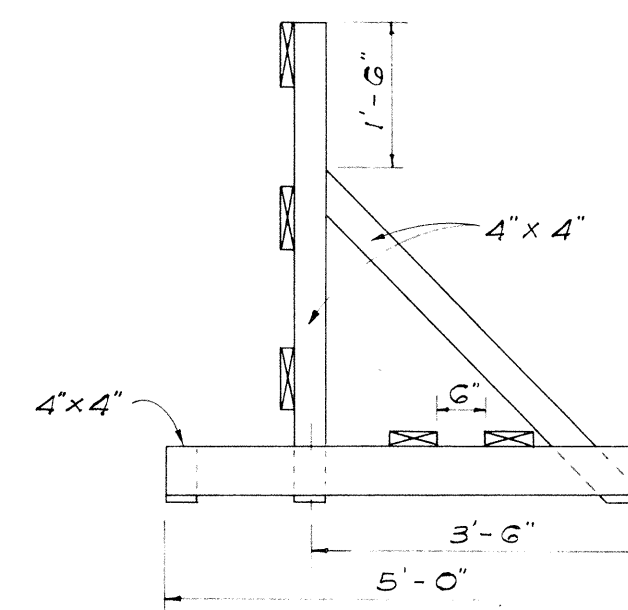
PLAN VIEW



SIDE VIEW
(SIGN FRAME WEIGHTED DOWN)

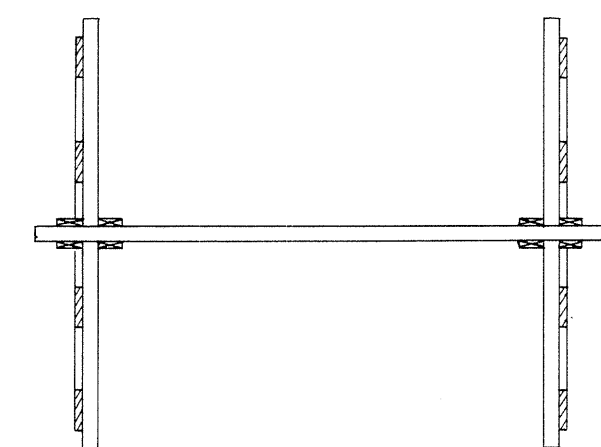


FRONT VIEW

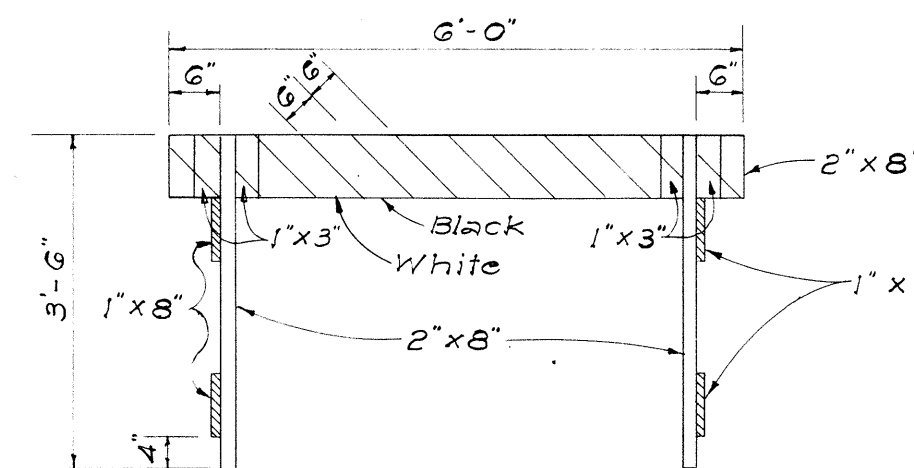


END VIEW

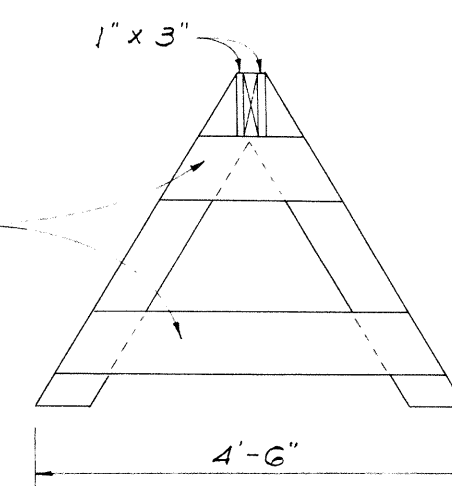
CLASS I BARRICADE



PLAN VIEW



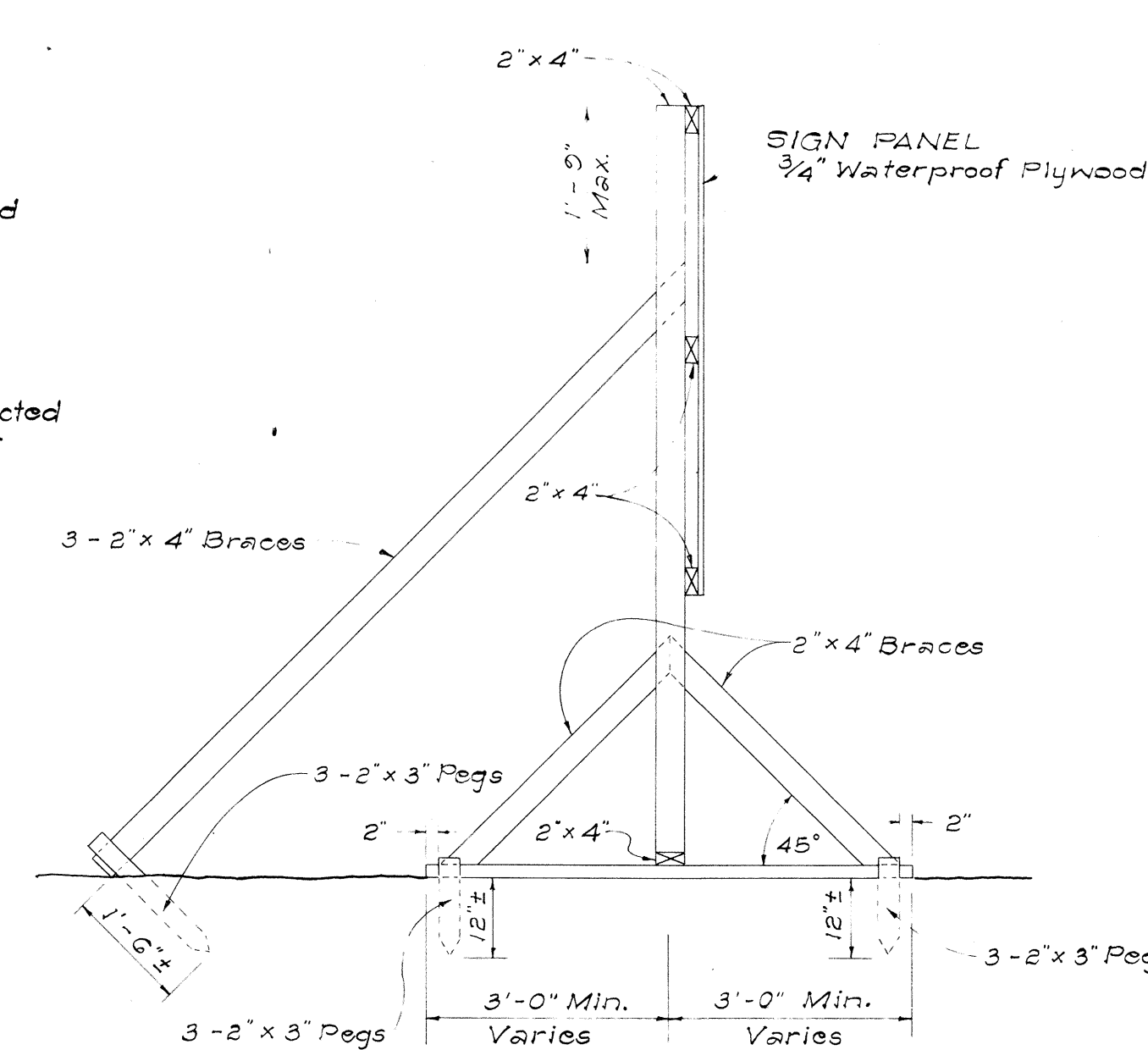
FRONT VIEW



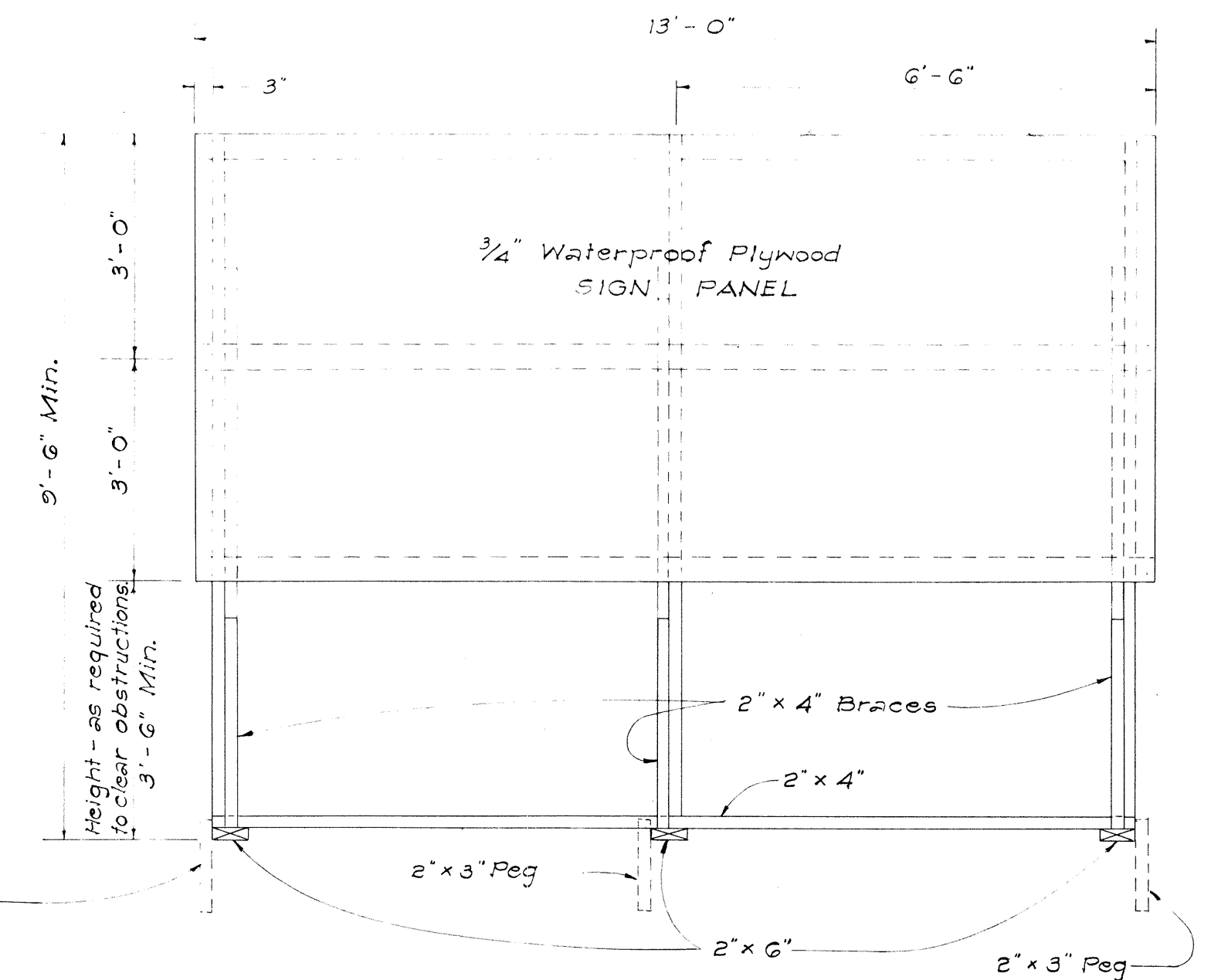
END VIEW

CLASS II BARRICADE

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



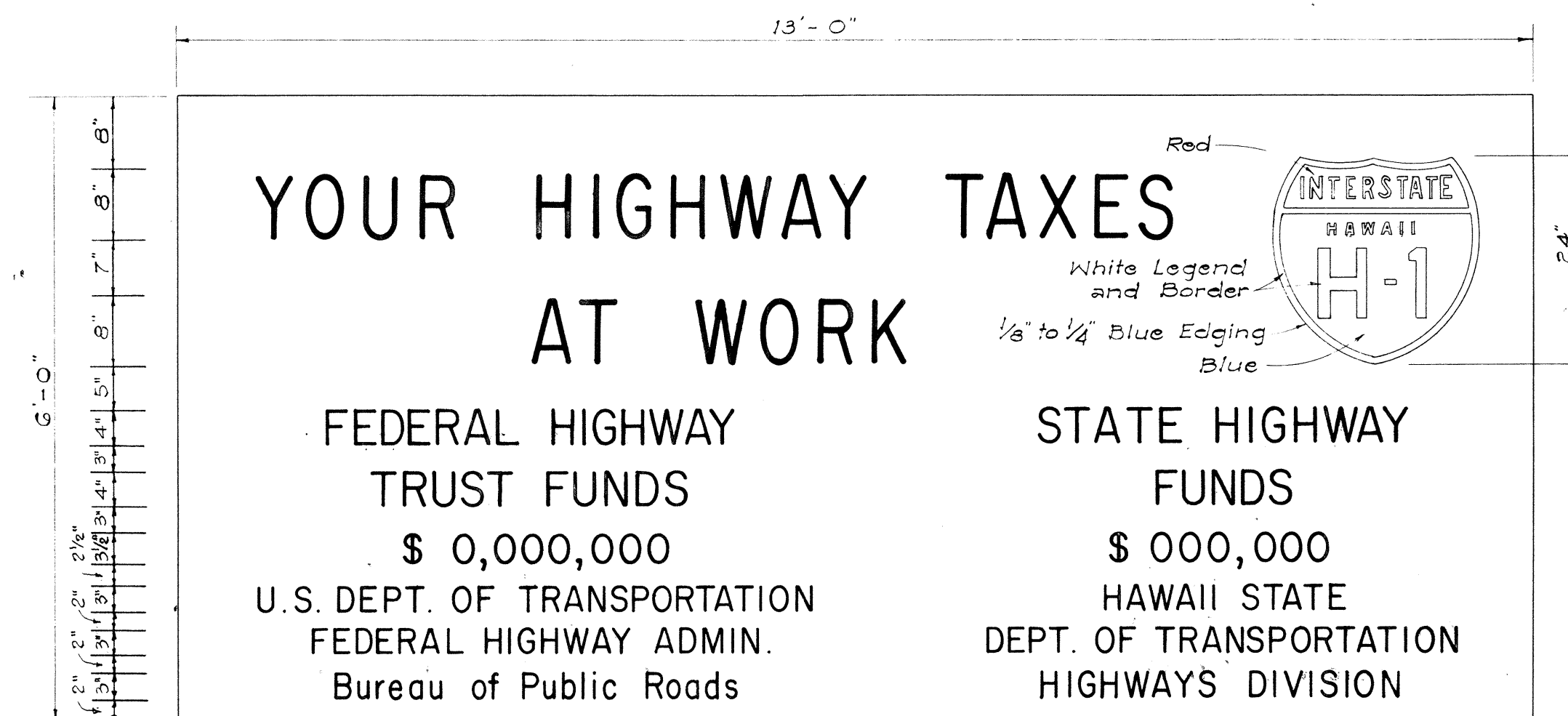
SIDE VIEW
(SIGN FRAME ANCHORED IN GROUND)



FRONT VIEW

ELEVATIONS

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



SIGN PANEL

Scale: 3/4" = 1'-0"

INTERSTATE SYSTEM CONSTRUCTION IDENTIFICATION SIGN

Scale: As Shown

NOTES:

- A. CONSTRUCTION IDENTIFICATION SIGNS**
1. The sign legend shall be black on white background except for the Interstate Route marker which shall be as shown on the plan.
2. The Contractor shall construct, install and maintain the project signs at the locations shown on the Plans and as ordered by the Engineer.
3. The signs shall be removed and stockpiled upon completion of the project as ordered by the Engineer and are to become State property.
4. Letters shall be Series "C" of the sizes shown on the Plan and shall conform with the "Standard Alphabet for Highway Signs", Bureau of Public Roads, 1952.
5. The Contractor shall fill in the proper numerals in place of ciphers as ordered by the Engineer.

B. WOOD BARRICADES

1. The Contractor shall construct, install and maintain the wood barricades at the locations shown on the Plans and as ordered by the Engineer.
2. The permanent wood barricades shall be left in place or relocated upon completion of the project as ordered by the Engineer and are to become State property.

REVISED: October 2, 1967

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

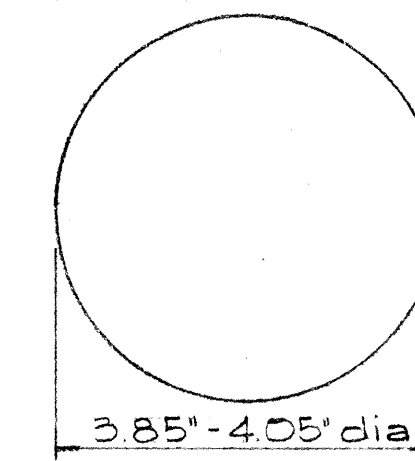
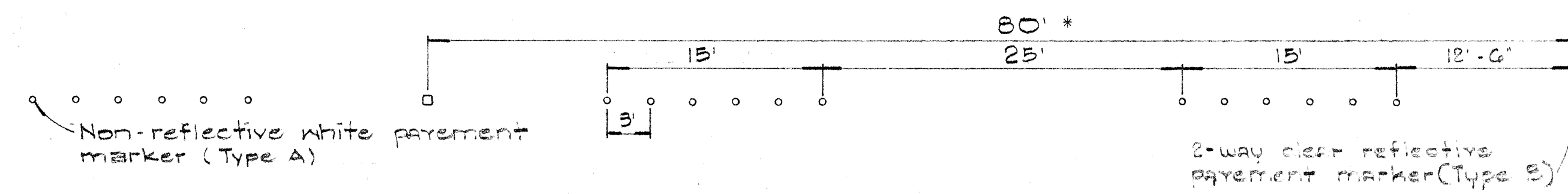
TYPICAL DETAILS
CONSTRUCTION IDENTIFICATION SIGN
AND
WOOD BARRICADES

SCALE: As Shown

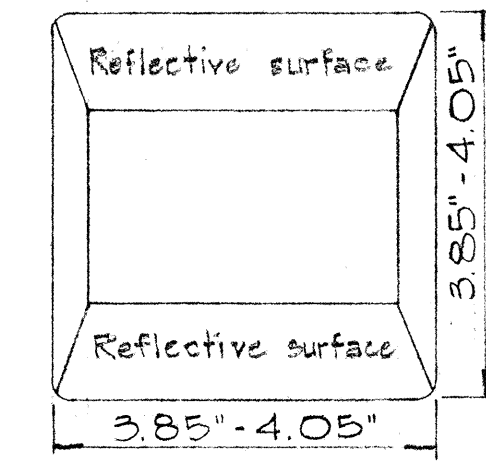
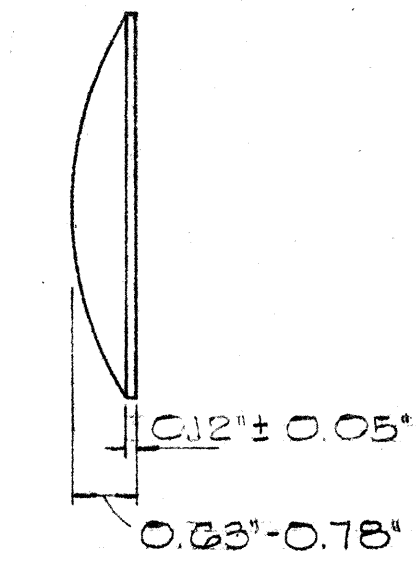
DATE: Oct. 1967

SHEET No. OF SHEETS

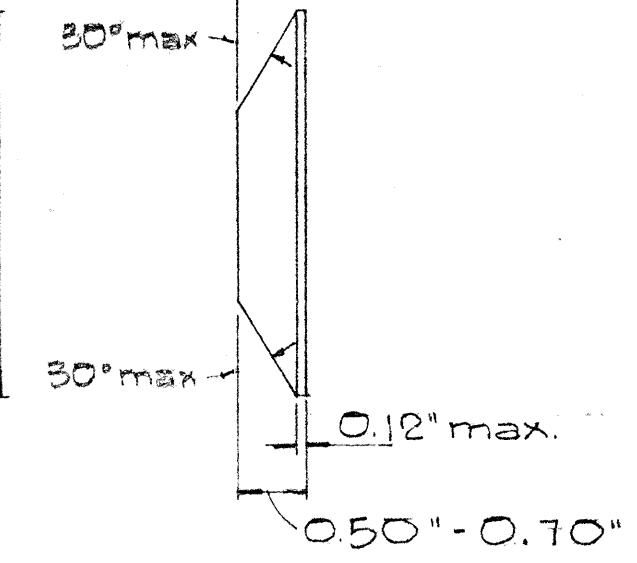
① CENTER LINES ON TWO-LANE RURAL ROADS AND CITY STREETS



TYPE A
Non-reflective white marker

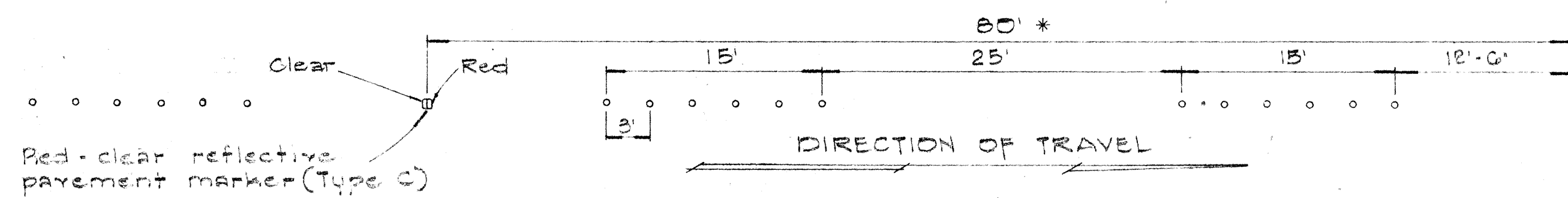


TYPE B
2-way clear reflective surface

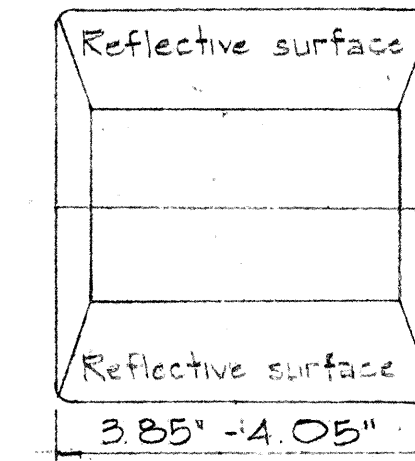
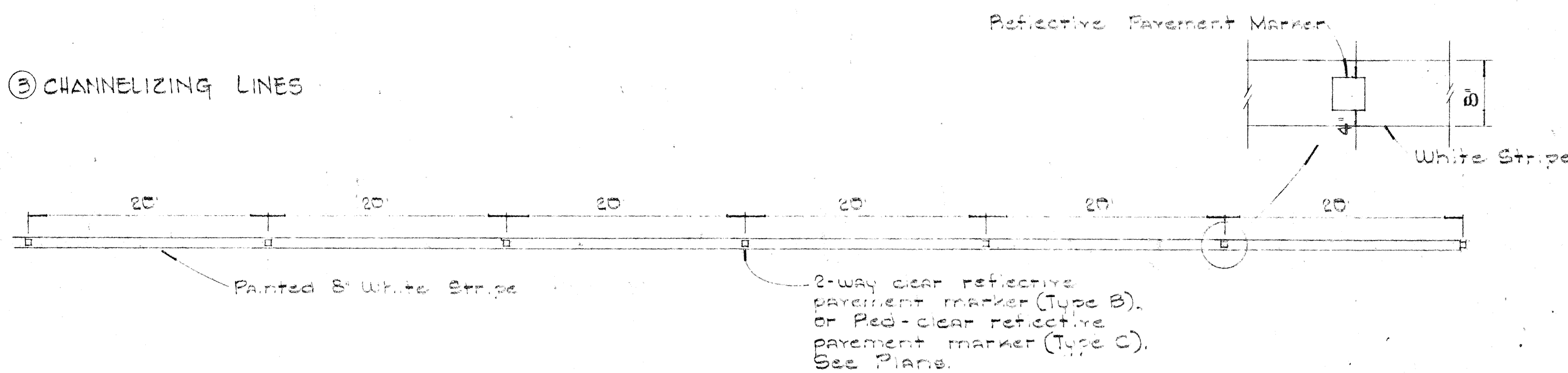


TYPE D
2-way yellow reflective surface

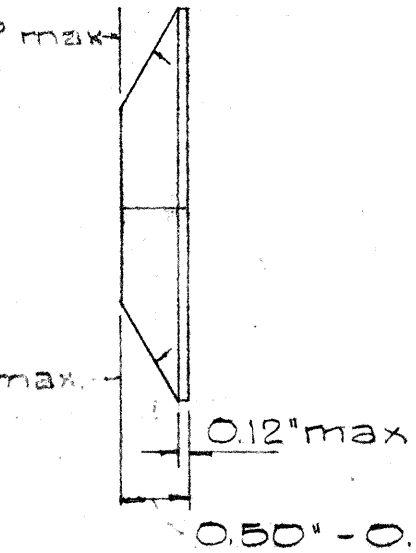
② LANE LINES



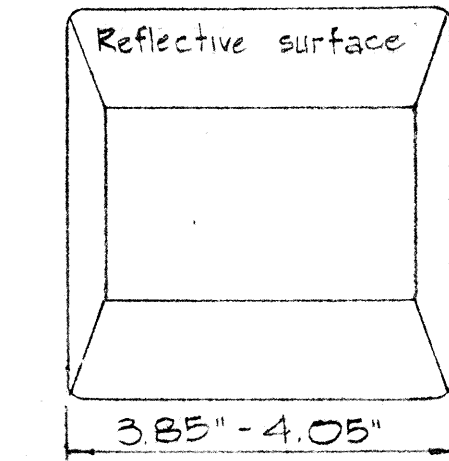
③ CHANNELIZING LINES



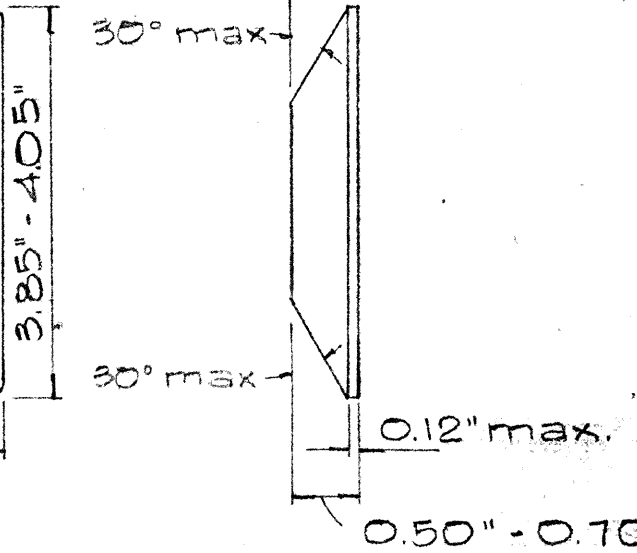
TYPE C
Red-clear reflective surface



TYPE E
Yellow-clear reflective surface

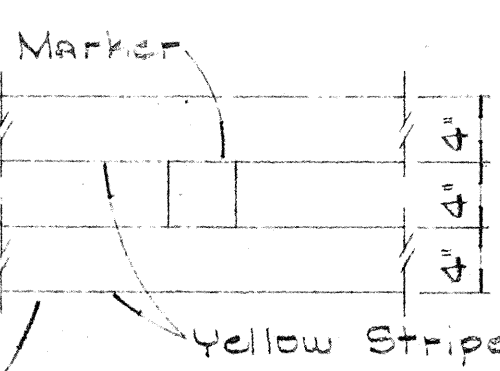
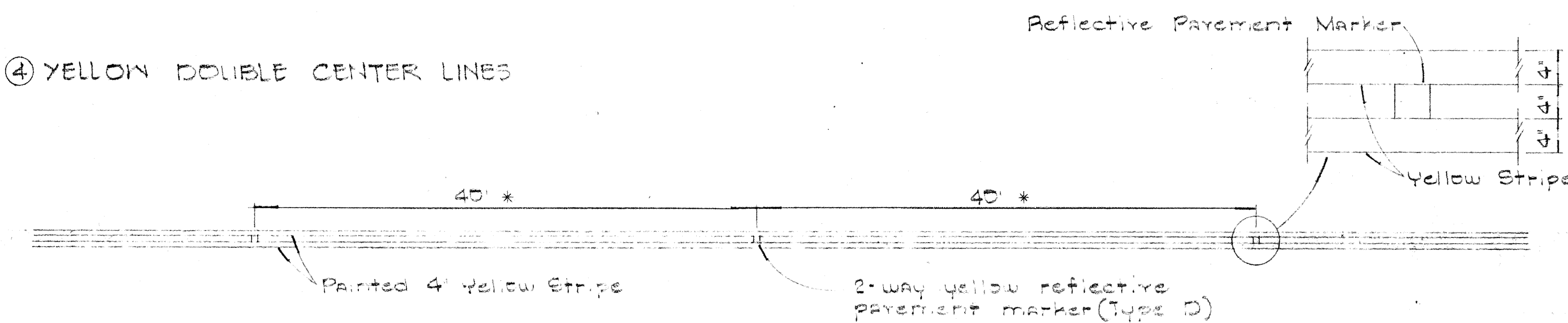


TYPE I-1
One-way yellow reflective surface



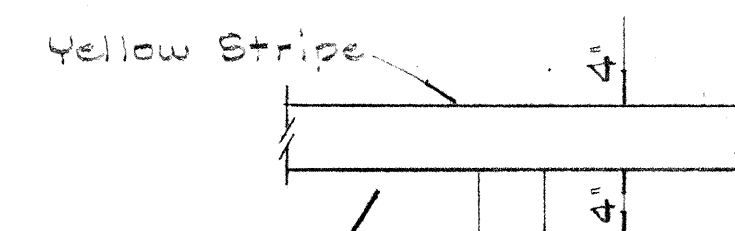
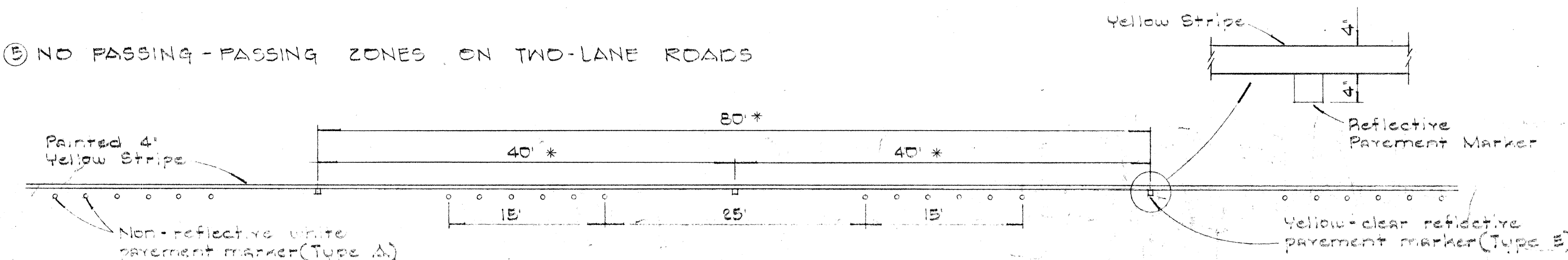
TYPE G
One-way clear reflective surface

④ YELLOW DOUBLE CENTER LINES



TYPE E
Yellow-clear reflective surface

⑤ NO PASSING - PASSING ZONES ON TWO-LANE ROADS



TYPE E
Yellow-clear reflective surface

NOTE:
Painted stripes to be done by State forces.

REVISED: April 14, 1967
REVISED: April 13, 1967

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
RAISED PAVEMENT MARKERS

Not to Scale

SHEET No. 49 OF 124 SHEETS