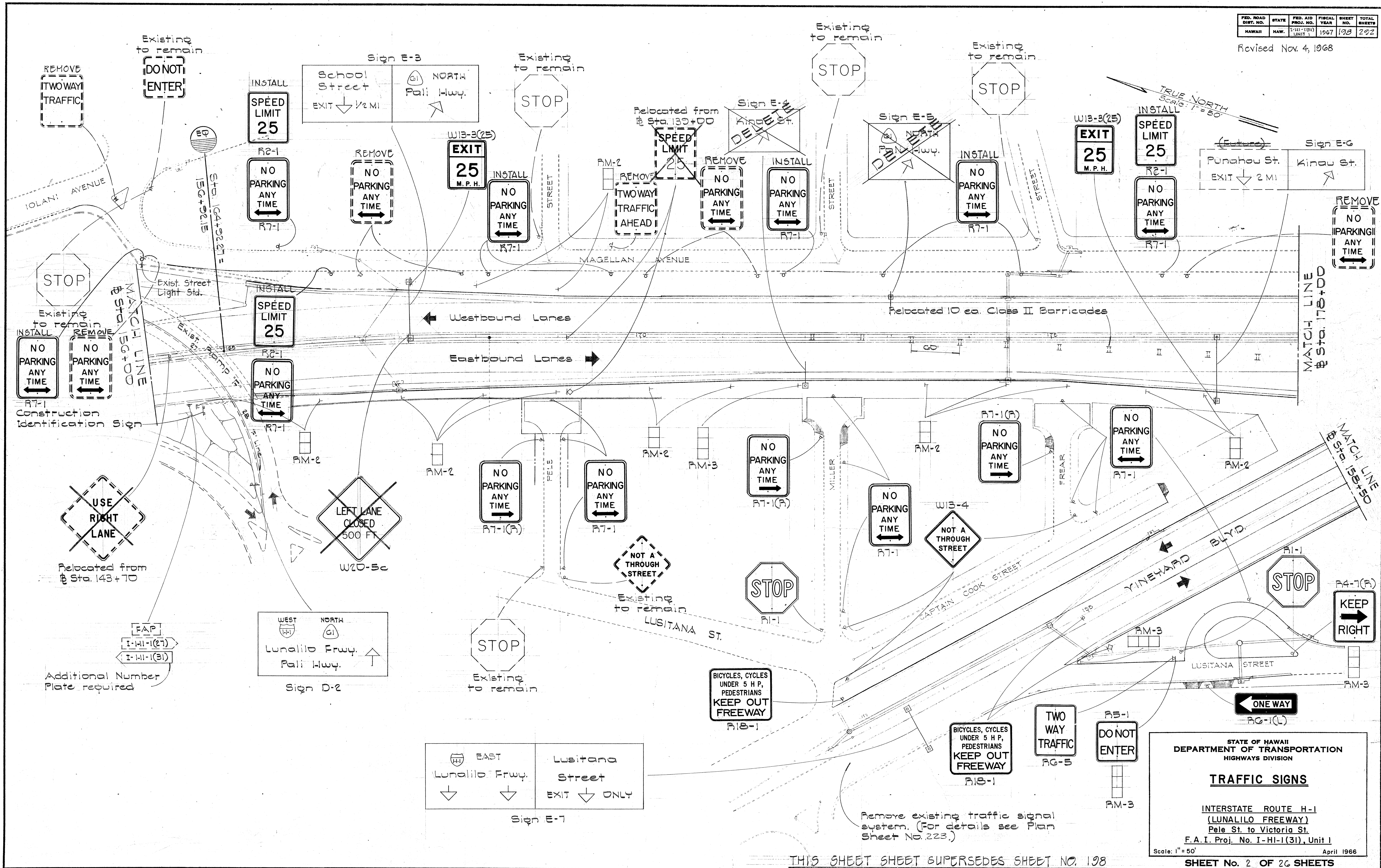


Revised Nov. 4, 1968



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNS

INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Pele St. to Victoria St.
F.A.I. Proj. No. I-HI-1(31), Unit 1
Scale: 1" = 50' April 1966

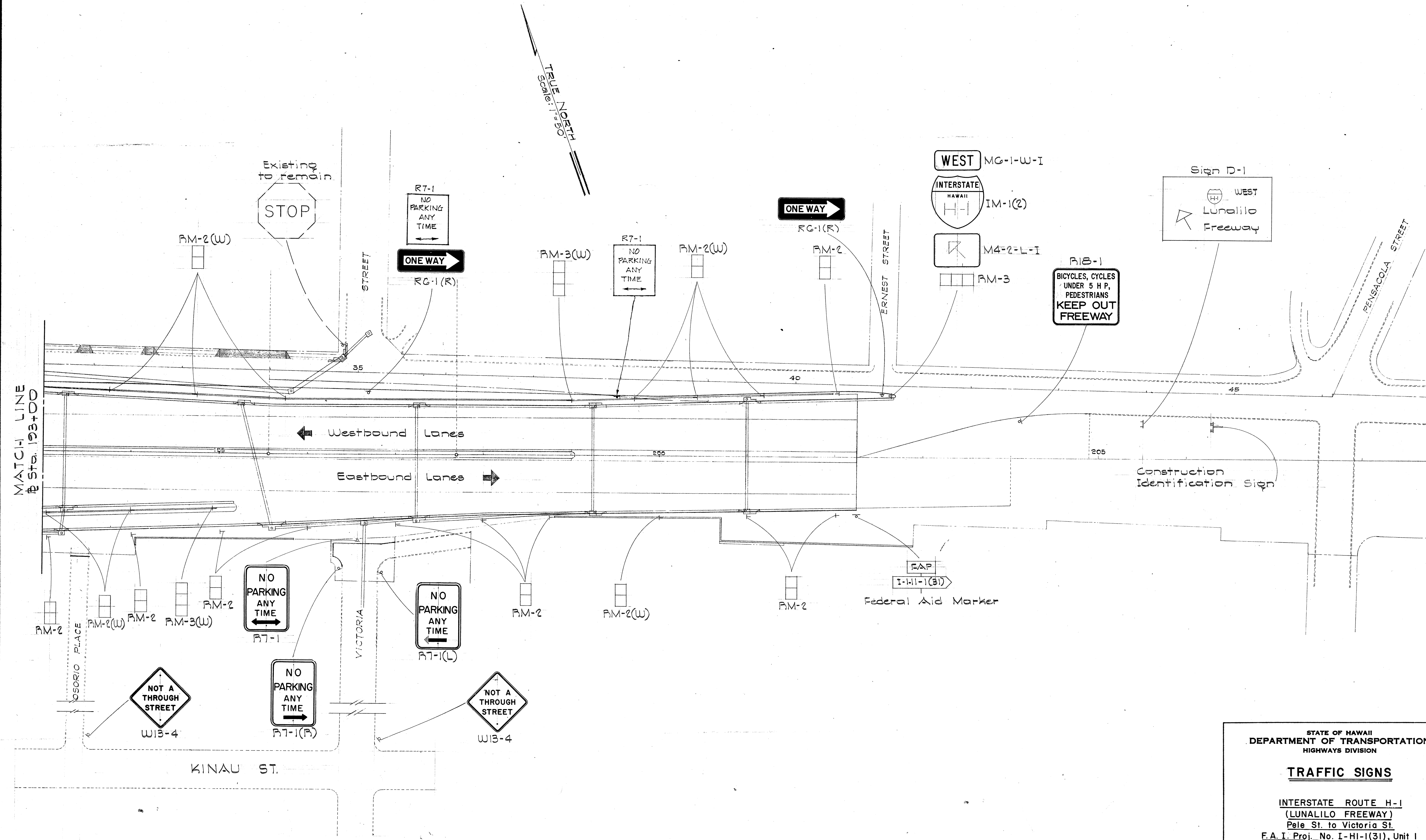
THIS SHEET SHEET SUPERSEDES SHEET NO. 198

SHEET No. 2 OF 26 SHEETS

New File No. 1

DS-1-11

C O I D S



DATE
DESIGNED BY
CHECKED BY
NO.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNS

INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Pele St. to Victoria St.
F.A.I. Proj. No. I-HI-1(31), Unit 1
Scale: 1" = 50' Date: April, 1966

SHEET No. 4 OF 26 SHEETS

New File No. 1

200

TRAFFIC SIGN LEGEND

- New sign

Existing sign
- Sign mounted on galvanized iron pipe

Sign mounted on two galvanized iron pipes

Reflector marker mounted on galvanized channel or wall(W)

Overhead Expressway Sign (Span)

Overhead Expressway Sign (Cantilever)

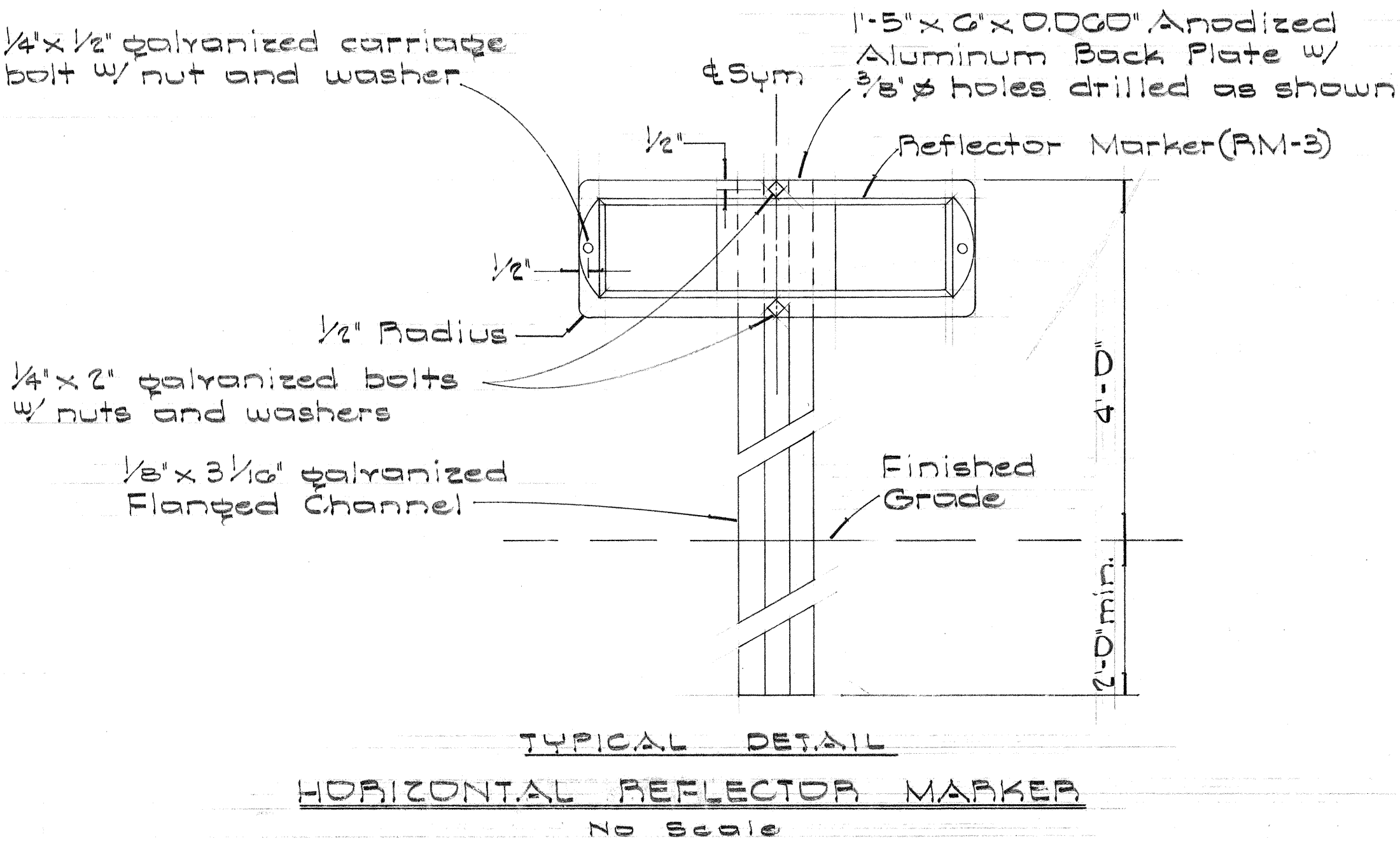
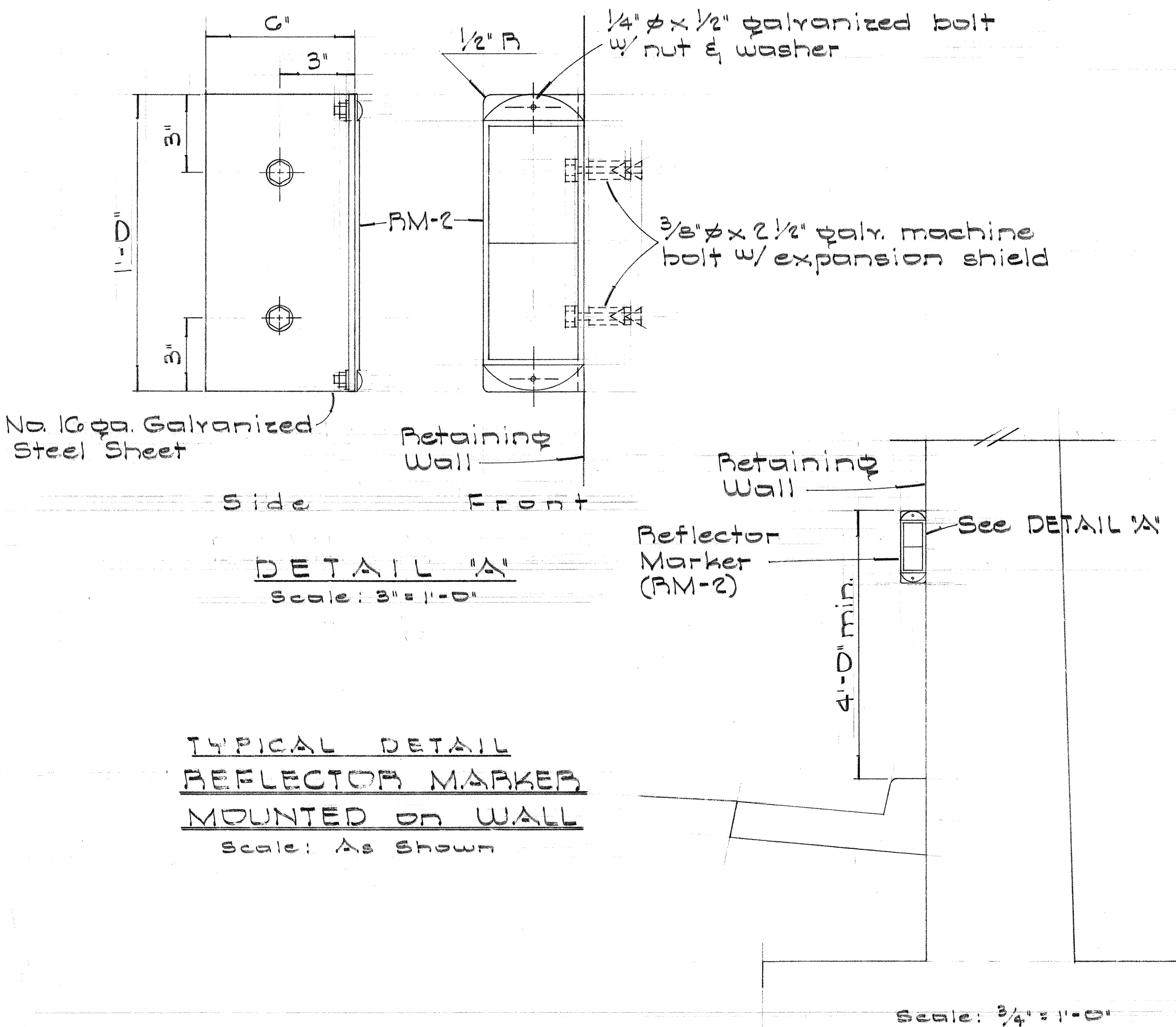
Ground mounted Expressway Sign

Ground mounted Destination Sign

Sign mounted on traffic signal standard or light standard.

GENERAL NOTES

- Exact location of signs to be determined in the field by the Engineer.
- Existing signs not incorporated into the new traffic sign layout shall be removed unless otherwise noted. (All costs incidental to the item "Installation of Signs")



TRAFFIC SIGN SUMMARY					
	Type	Description	Quantity		
			w/ Post	w/o Post	Relocate
	R1-1	STOP	6		1
	R2-1(25)	SPEED LIMIT 25			2
	R2-1(30)	SPEED LIMIT 30		1	
	R2-5	SPEED ZONE AHEAD			2
	R4-7(R)	KEEP RIGHT	3		
	R5-1	DO NOT ENTER	1	1	
	R6-1(L)	<ONE WAY	1	1	
	R6-5	TWO WAY TRAFFIC		2	
	R7-1	NO PARKING ANY TIME	20	2	
	R7-1(R)	NO PARKING ANY TIME	7	1	
	R7-1(L)	NO PARKING ANY TIME	2		
	R18-1	BICYCLES, etc., KEEP OUT	3	1	
Reflector Markers	RM-2	Reflector Marker	42	3	
	RM-3	Reflector Marker	4	5	
	RM-2(W)	Reflector Marker (Mounted on wall)	20		
	RM-3(W)	Reflector Marker (Mounted on wall)	2		
Signs for Route Mkrs.	M4-2-L-1	WEST		1	
	MG-1-W-1	WEST		1	
	MG-1-W-1(3)	WEST		1	
	IM-1(2)	Interstate Shield	1		
	IM-1(3)	Interstate Shield		1	
*	W4-1	MERGING TRAFFIC		1	
	W4-1-I	MERGING TRAFFIC		1	
	W13-1(25)	25 MPH			2
	W13-3(25)-I	EXIT 25 MPH		2	
	W13-3(30)-I	EXIT 30 MPH	1		
	W13-4	NOT A THROUGH STREET	3	1	
	W20-5b	LEFT LANE CLOSED 1000'			1
	W20-5c	LEFT LANE CLOSED 500'		1	
	W20-8	USE RIGHT LANE			1
	R2-1(55)-1	SPEED LIMIT 55	1		
	R3-1	NO RIGHT TURN	1	1	
	R6-1(R)	ONE WAY	2	1	
	R7-4	NO STOPPING or STANDING		2	
	R3-5(R)	ONLY		1	
	R3-13	ONLY	1		

BARRICADE SUMMARY		
Type	New	Relocate
Class I Barricade	3	4
Class II Barricade		2
Totals	3	10

NOTE:

Cost for the relocation of existing barricades shall be considered as incidental to Item N^o 117(1) "Class I Barricades."

* Interstate(I) Regulatory and Warning Sign.

DATE: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 NO. _____

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TRAFFIC SIGNS

MISCELLANEOUS DETAILS

INTERSTATE ROUTE H-1

(LUNALILO FREEWAY)

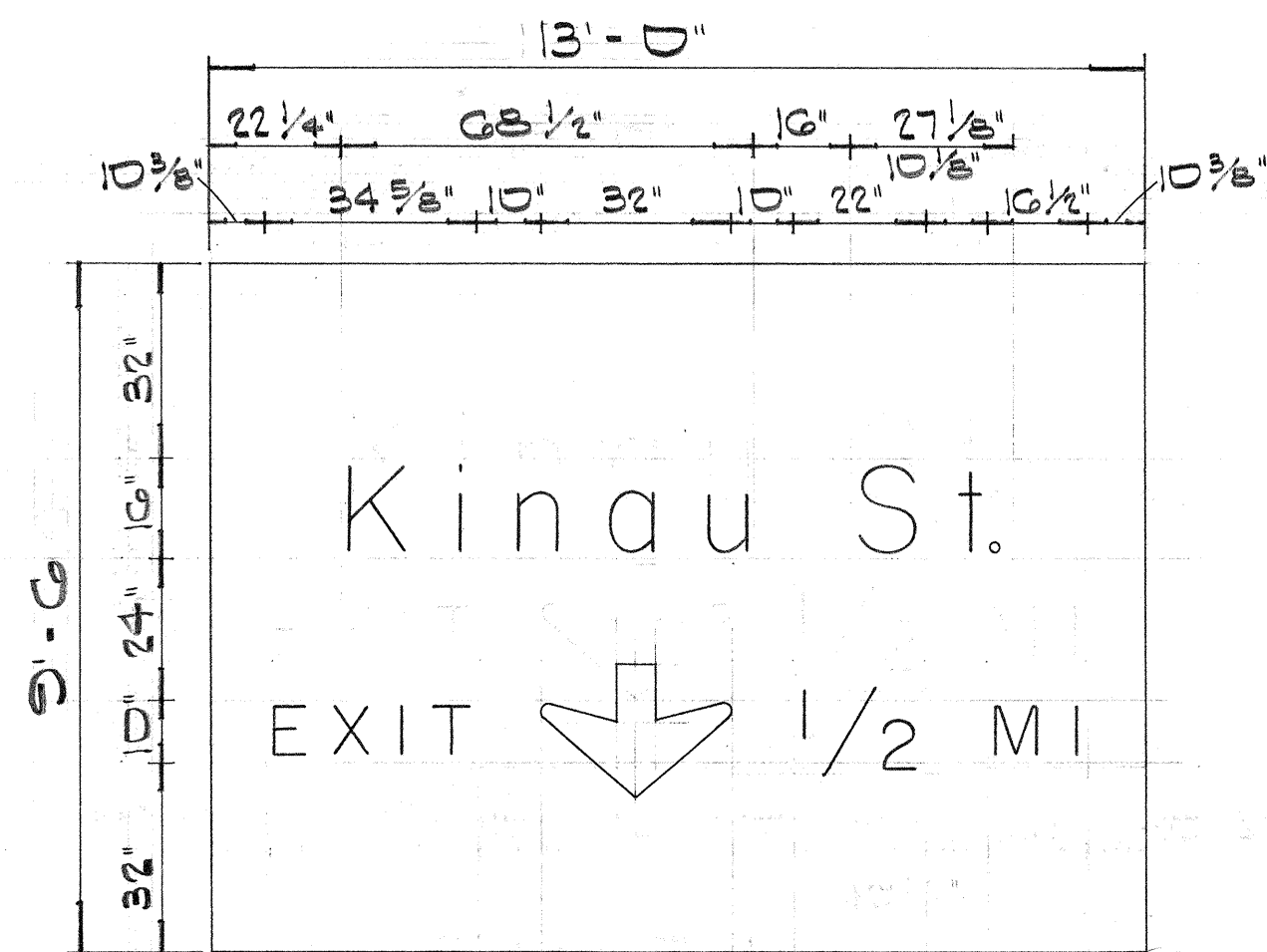
Pele St. to Victoria St.

F.A.I. Proj. No. I-HI-1(31), Unit 1

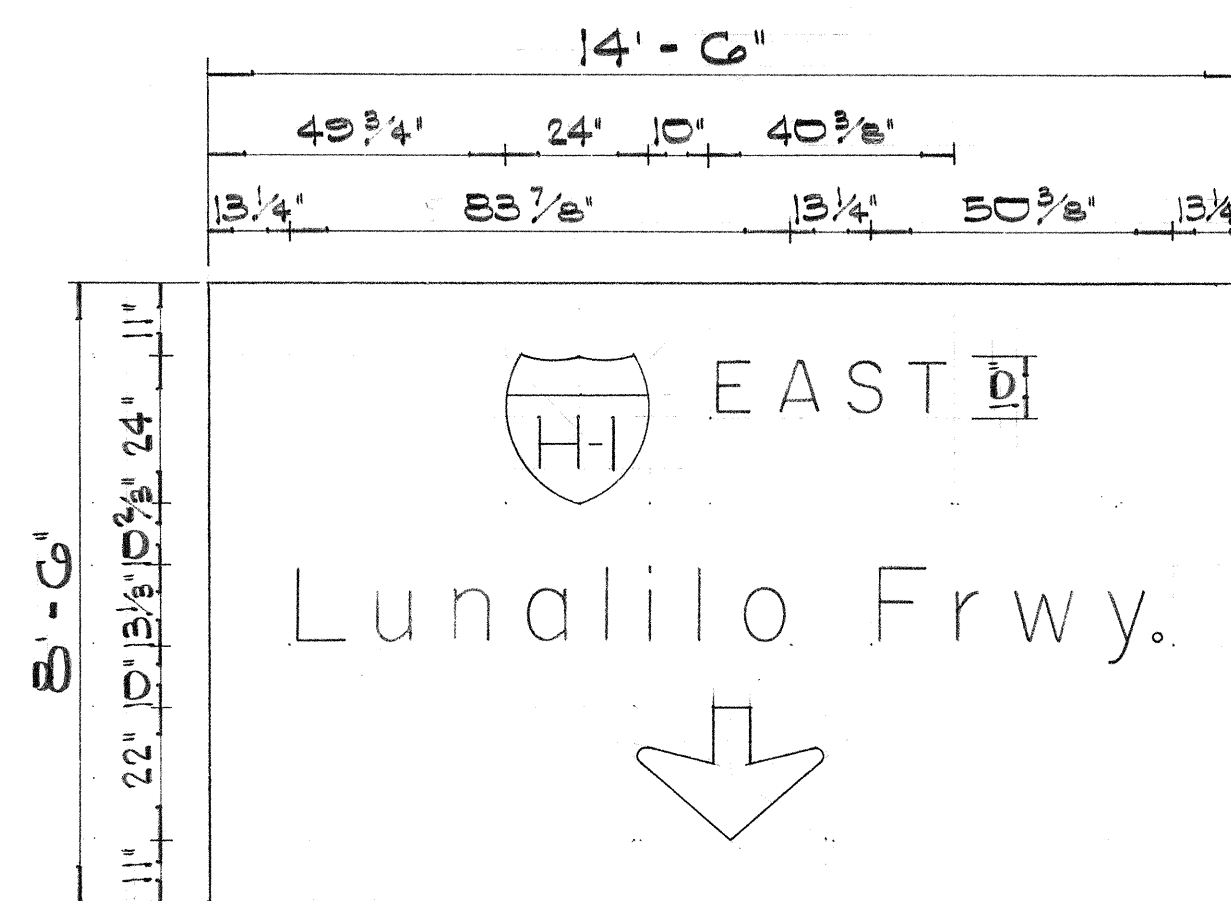
Scale: as Noted

Date: April, 1966

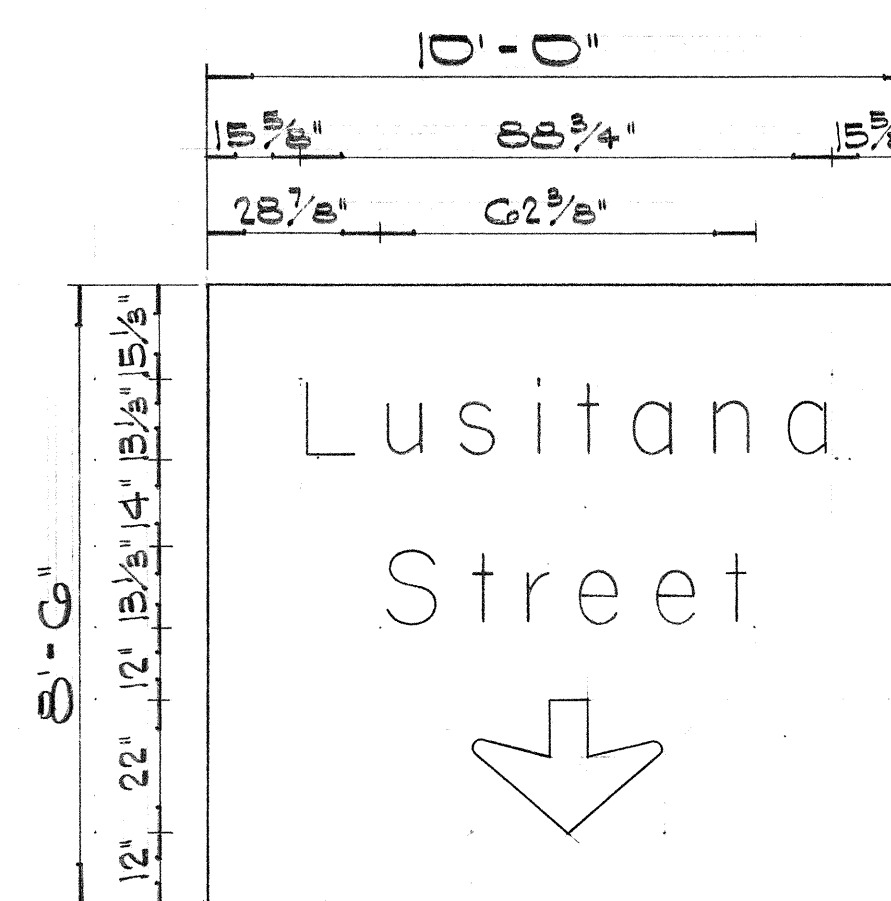
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-111(31) UNIT 1	1967	202	292



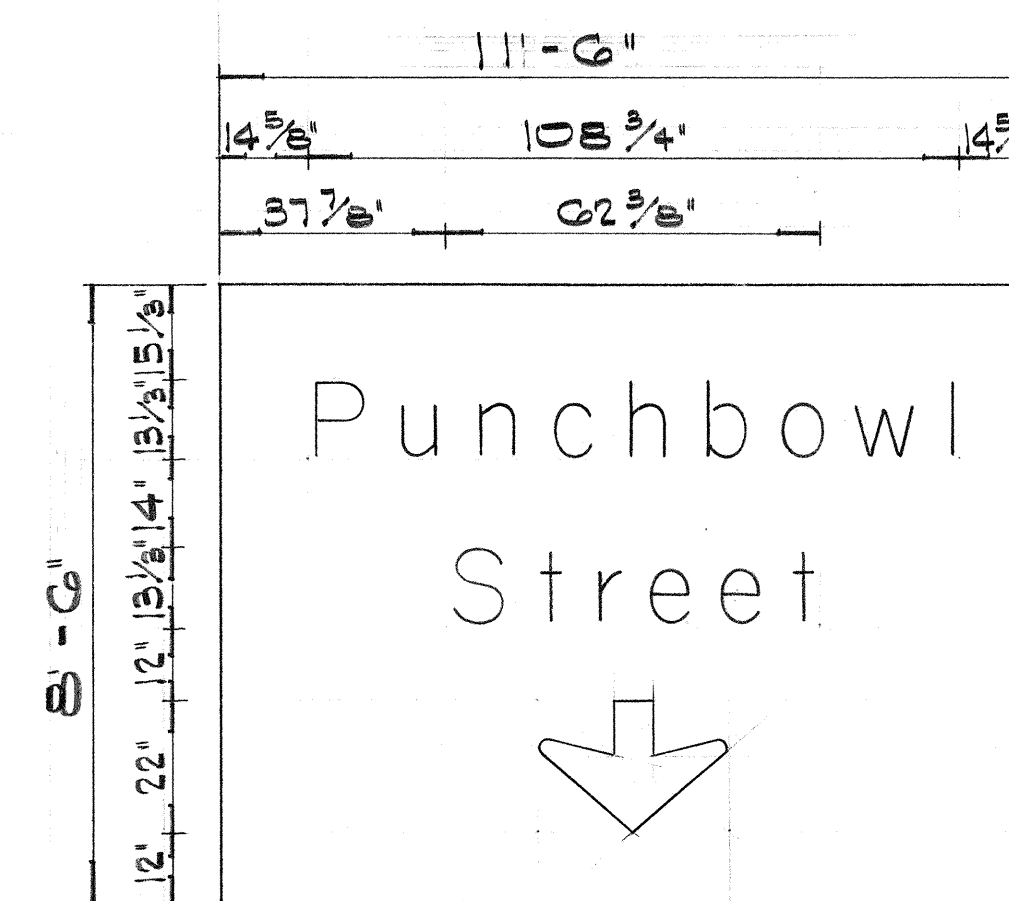
Sign E-1



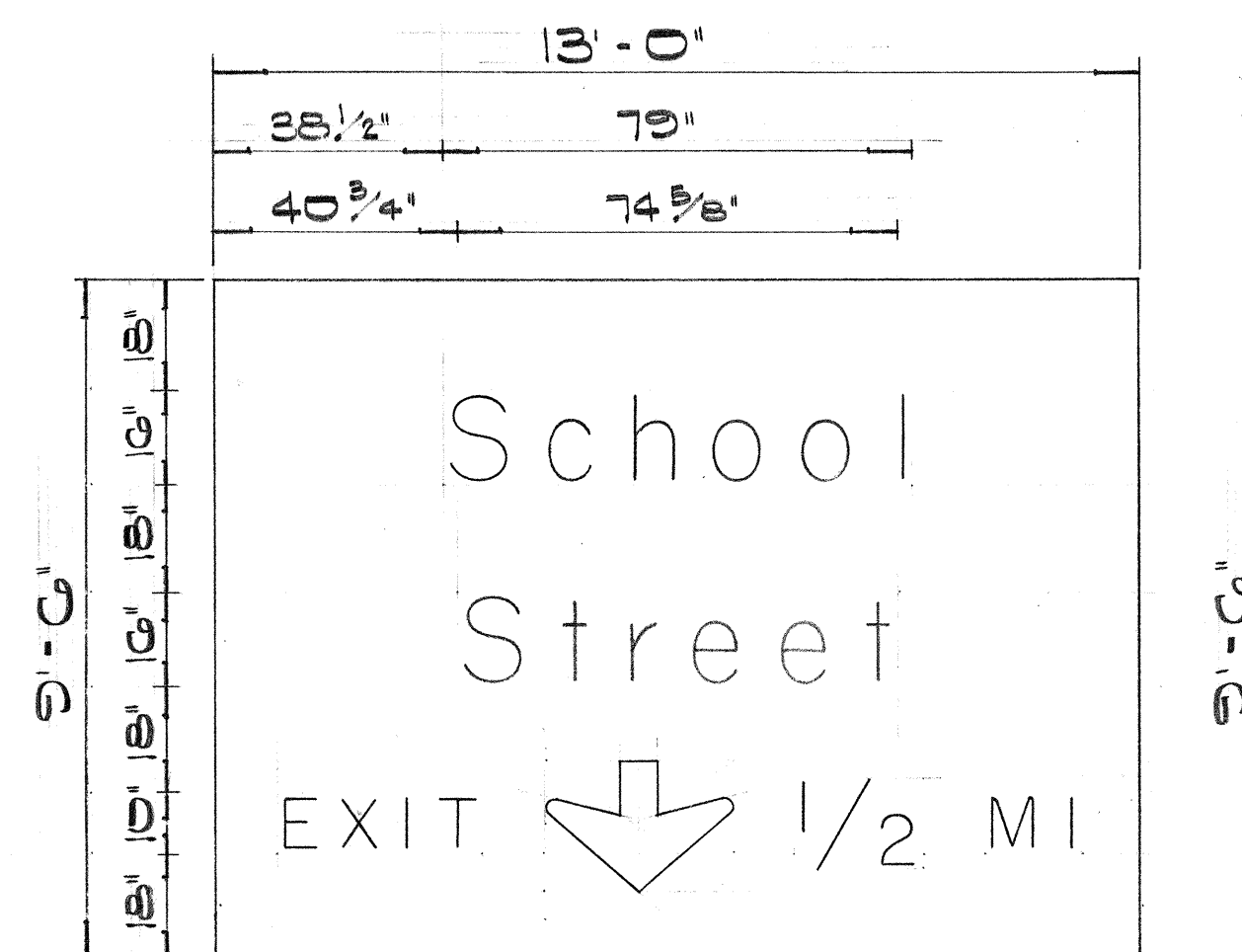
(L)



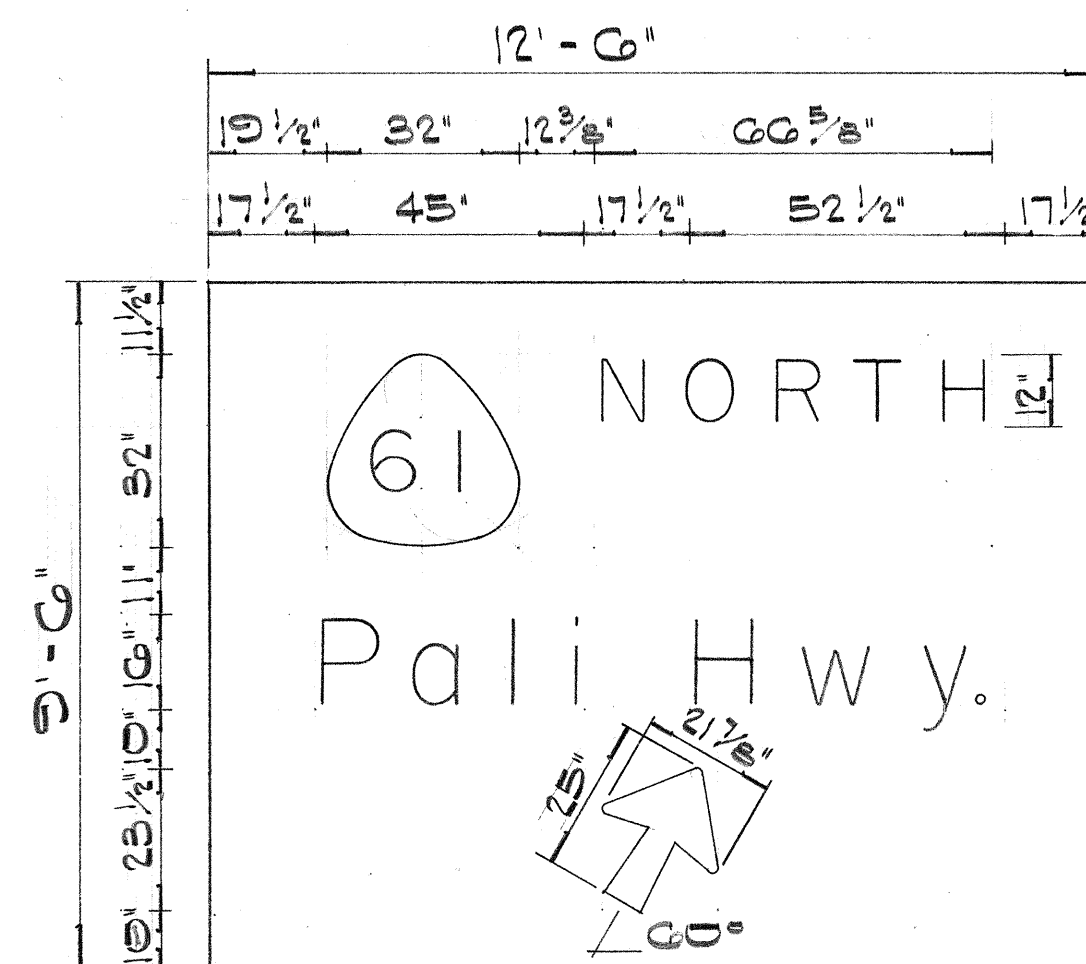
(C)



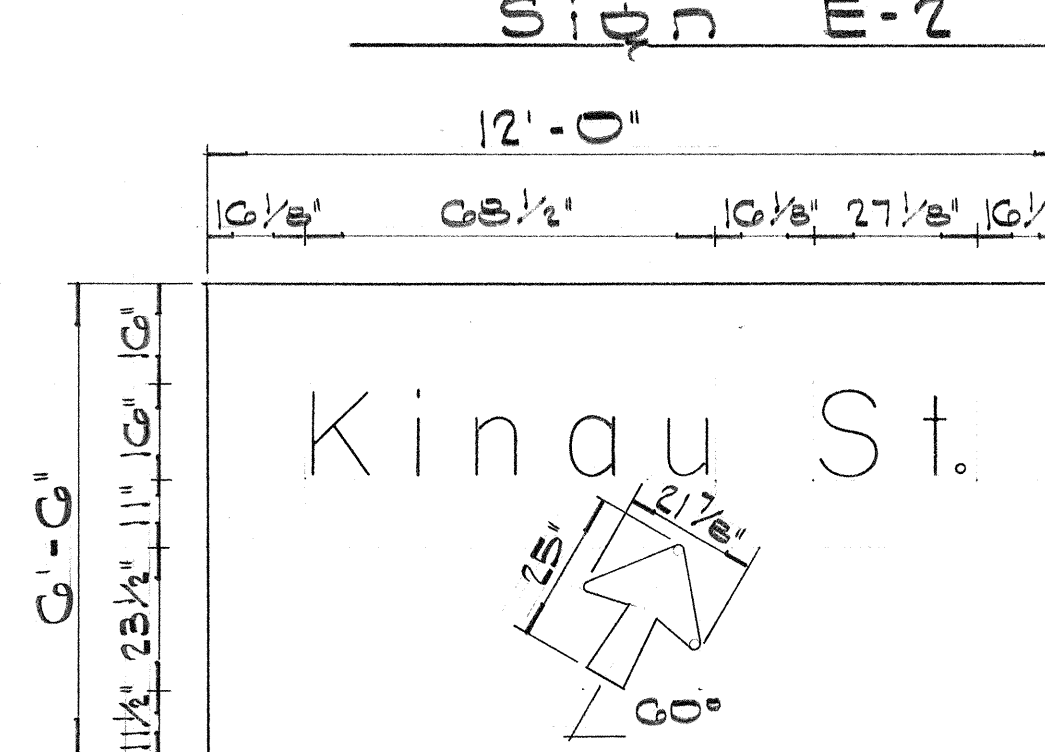
(R)



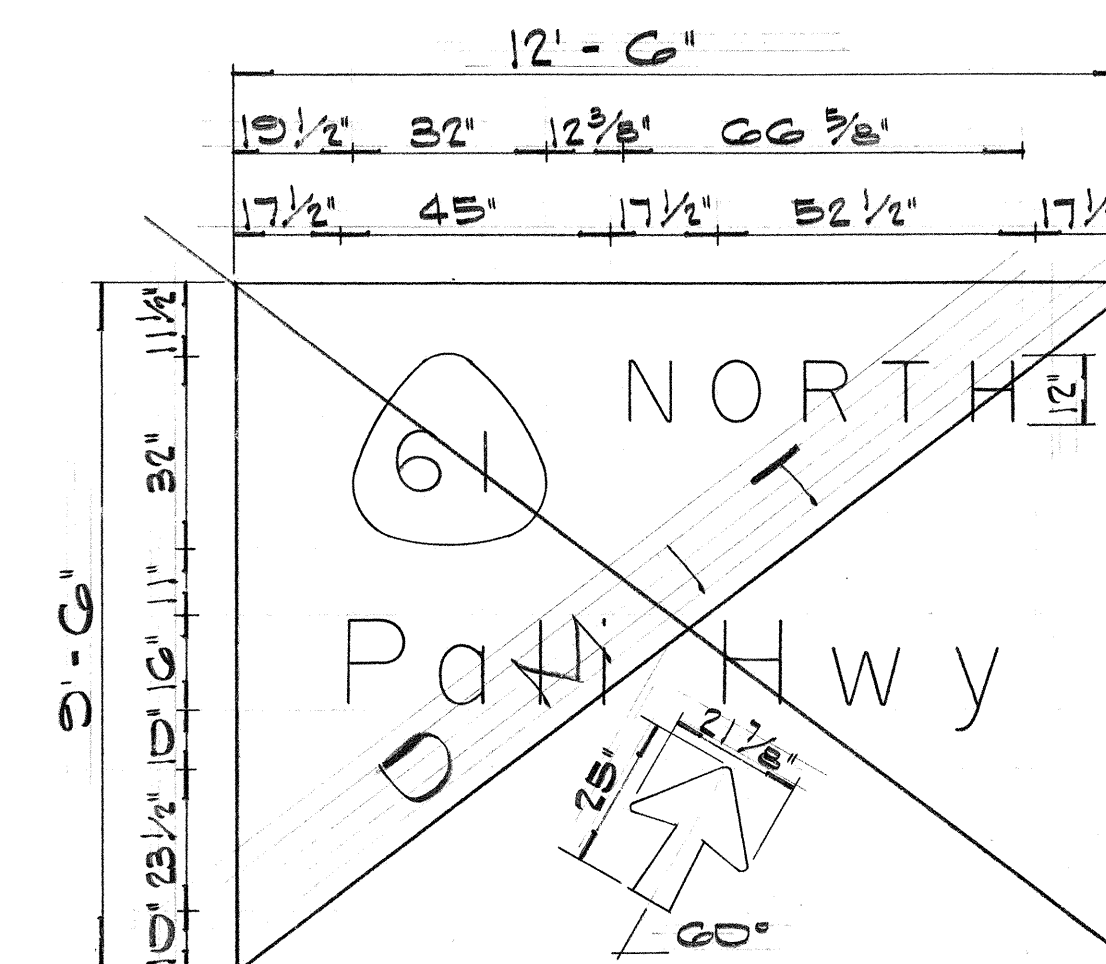
(L)



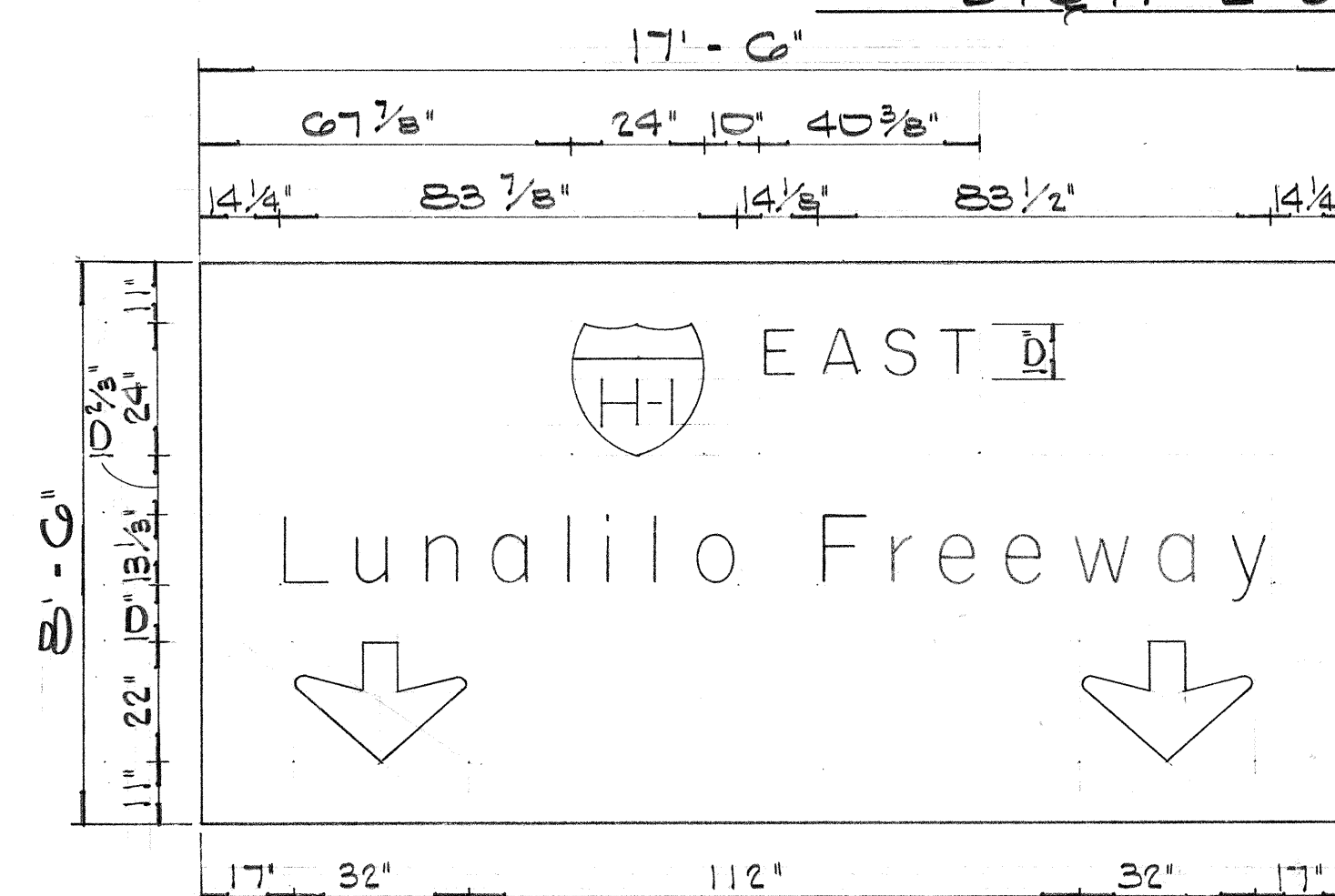
(R)



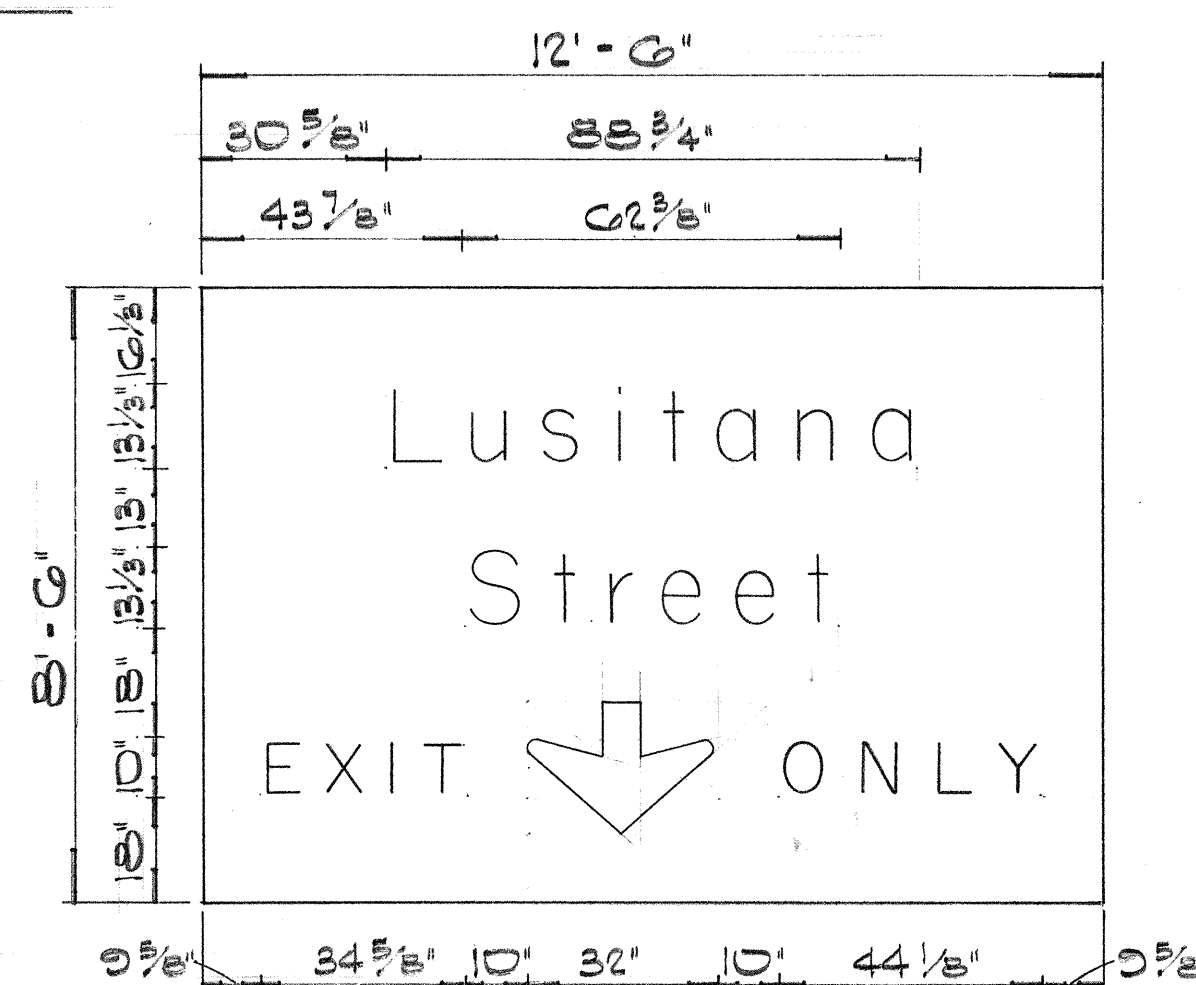
Sign E-4 & E-6



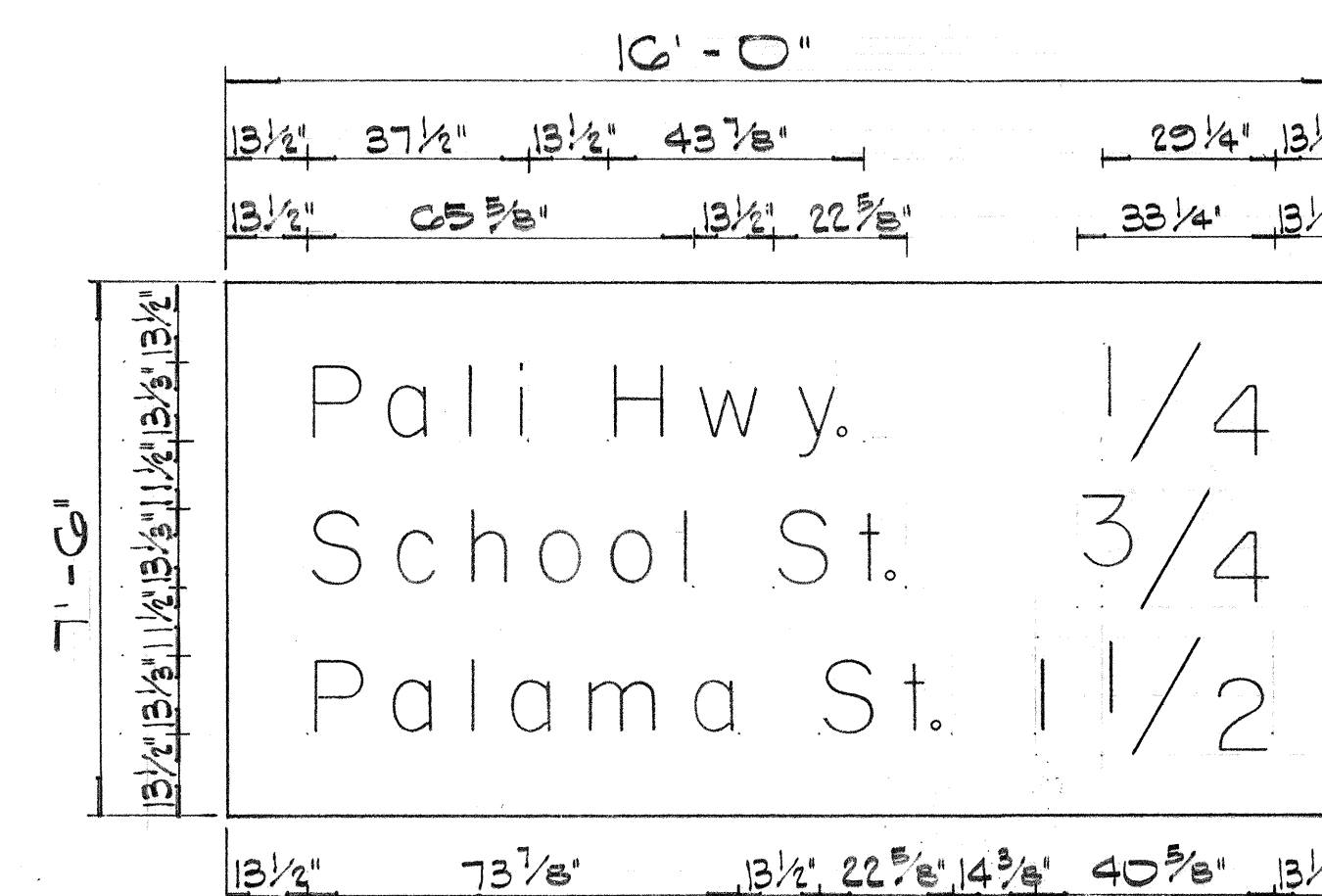
Sign E-5



(L)



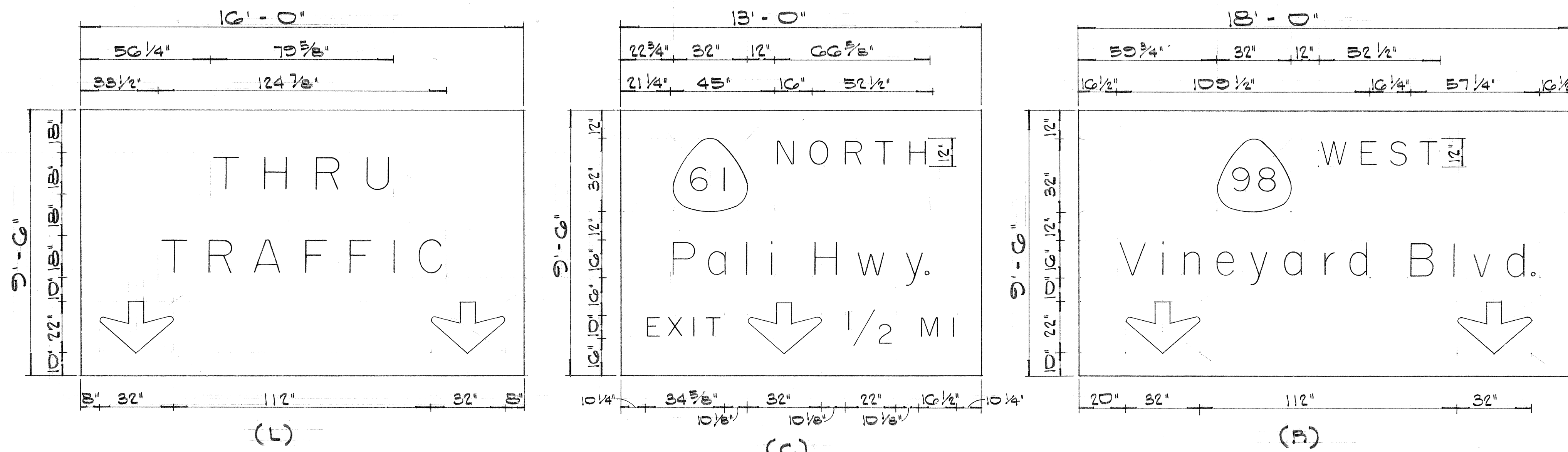
(R)



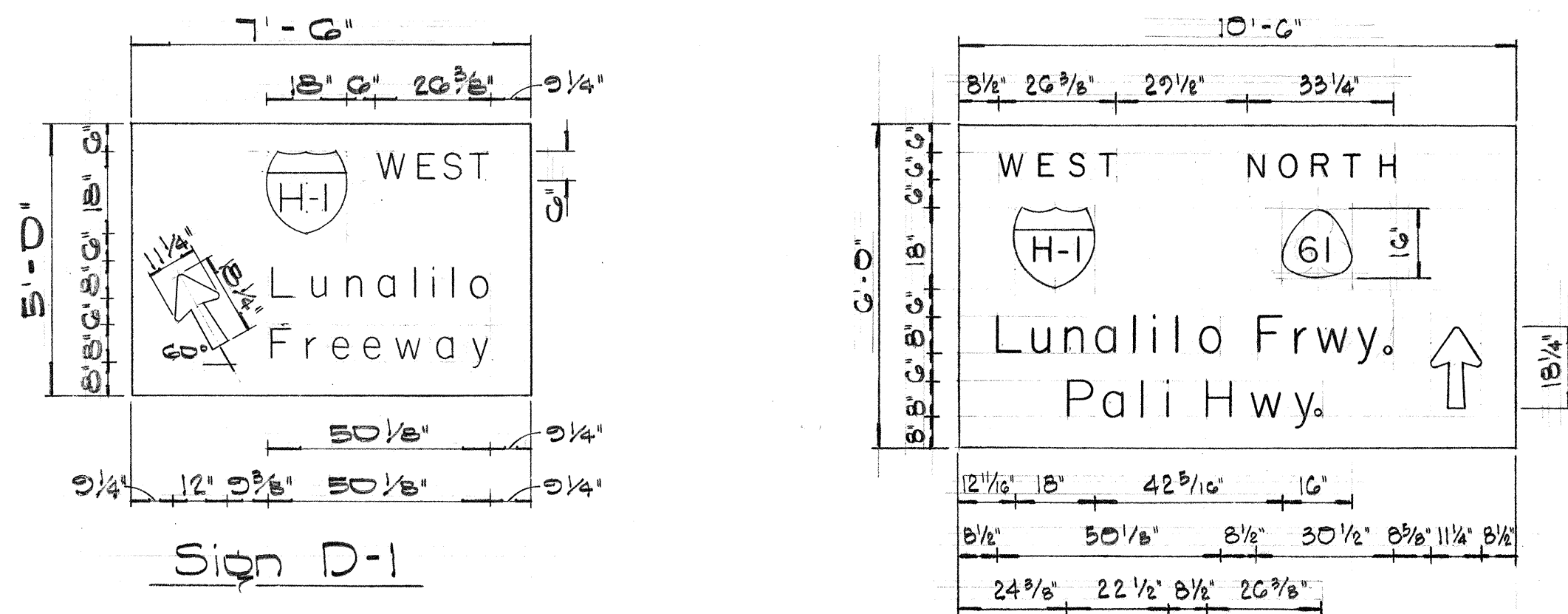
Sign E-8

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION					
DESTINATION & EXPRESSWAY SIGNS					
PANEL LAYOUT					
INTERSTATE ROUTE H-1 (LUNALILO FREEWAY) Pele St. to Victoria St. F.A.I. Proj. No. I-HI-1(31), Unit 1 Not to Scale Date: April, 1966					
SHEET No. 6 OF 26 SHEETS					

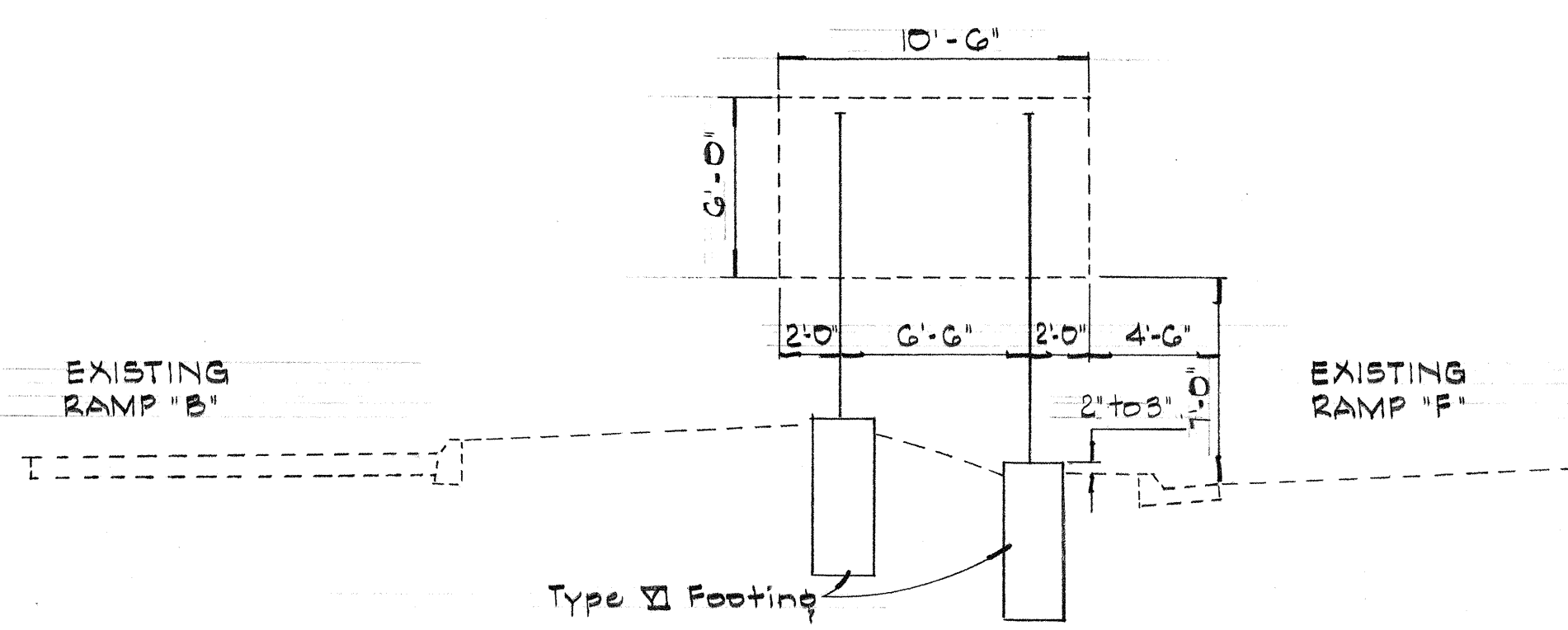
ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	



Sign E-3



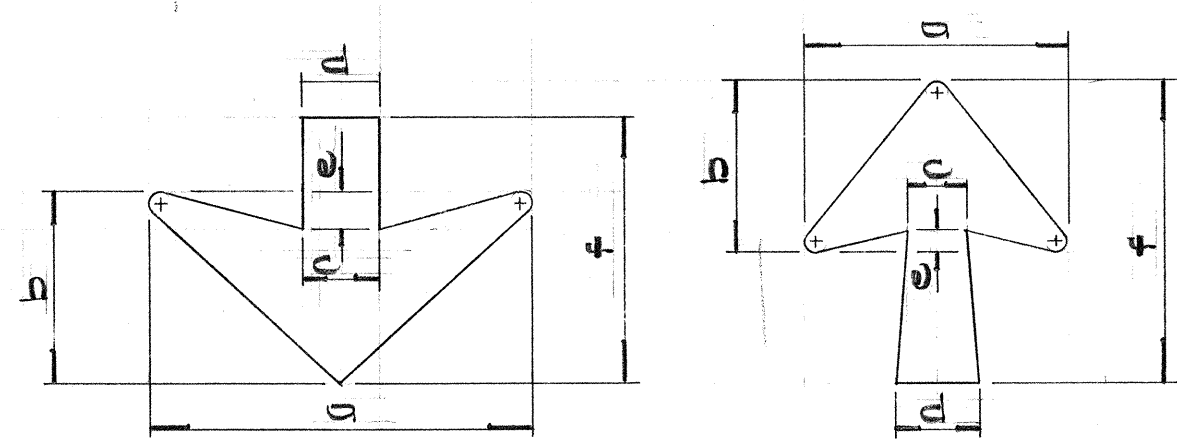
Sign D-2



SIGN D-2

"F" Line Sta. 28+87.75

SUMMARY of EXPRESSWAY and DESTINATION SIGNS		
Sign No.	Message	Area (Sq. ft.)
E-1	Kinohi St.	123.50
E-2(L)	Lunalilo Frwy.	123.25
E-2(C)	Lusitana Street	25.00
E-2(R)	Punchbowl Street	97.75
E-3(L)	School Street	123.50
E-3(R)	Pali Hwy.	118.00
E-4	Kinohi St.	78.00
E-5	Pali Hwy.	118.75
E-6	Kinohi St.	78.00
E-7(L)	Lunalilo Freeway	148.75
E-7(R)	Lusitana Street	106.25
E-8	Pali Hwy., School St., Palama St.	120.00
E-9(L)	Thru Traffic	152.00
E-9(C)	Pali Hwy.	123.50
E-9(R)	Vineyard Blvd.	171.00
Total		1,570.50
D-1	Lunalilo Freeway	37.50
D-2	Lunalilo Freeway, Pali Hwy.	63.00
TOTAL		100.50



Arrow Size	Arrow dimensions in inches						
	a	b	c	d	e	f	r
22" x 32"	32	16	6 1/2	6 1/2	3	22	1
11 1/4" x 18 1/4"	11 1/4	8 3/4	3 1/8	3 7/8	7/8	18 1/4	7/8
21 7/8" x 25"	21 7/8	14 1/4	5	6 3/4	1 3/4	25	1

TYPICAL ARROW DETAILS

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, borders and route markers shall conform with details as shown on plans.
- Letters, numerals, symbols and borders shall be demountable aluminum cut-outs 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 cut-outs on green reflective sheeting background.
- Expressway Signs (E) shall have either white reflective sheeting on aluminum cut-outs or clear reflex reflectors set in white porcelain enameled aluminum cut-outs. Background for the expressway signs shall be green porcelain enamel.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

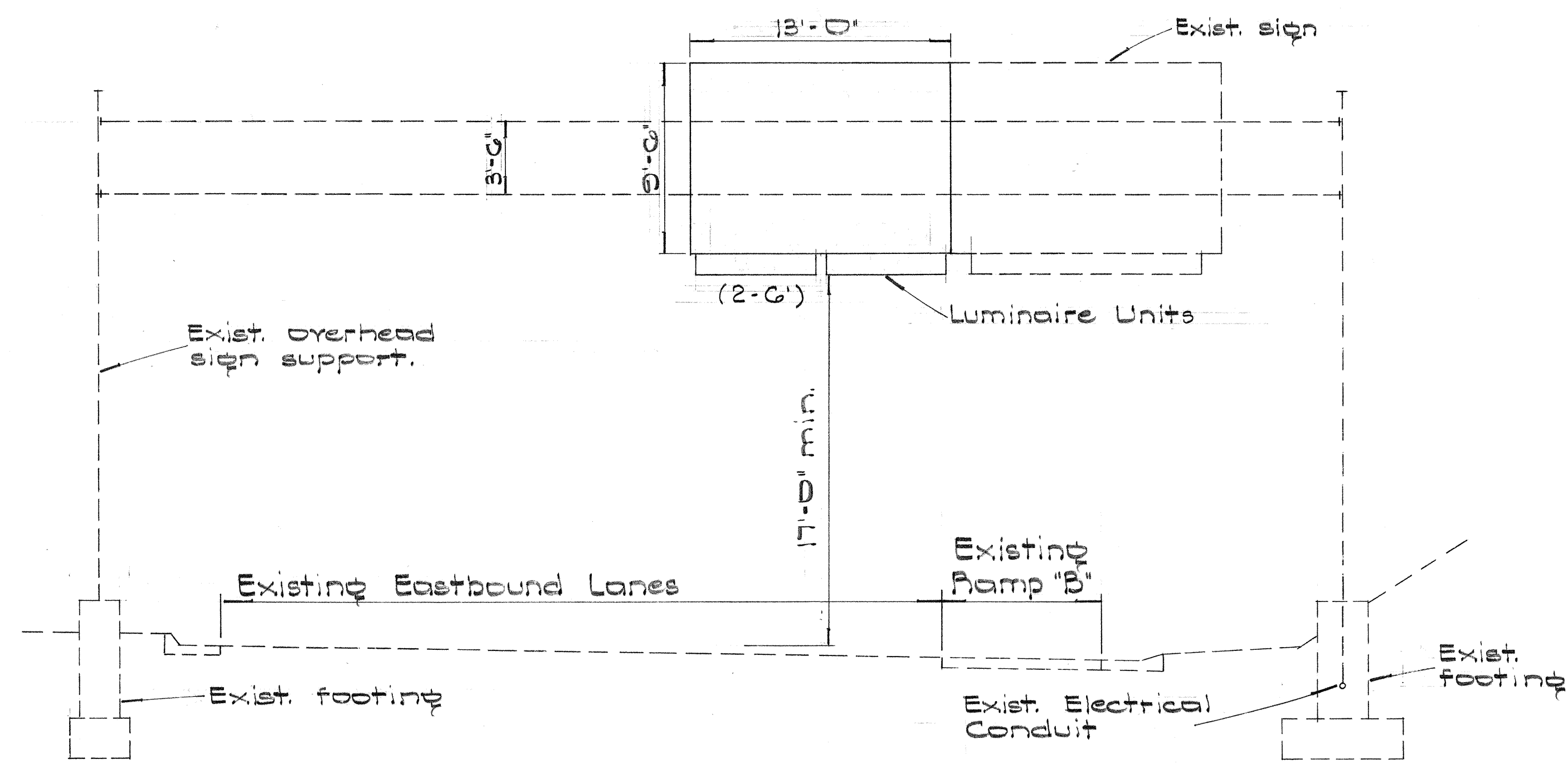
DESTINATION & EXPRESSWAY SIGNS

PANEL LAYOUT

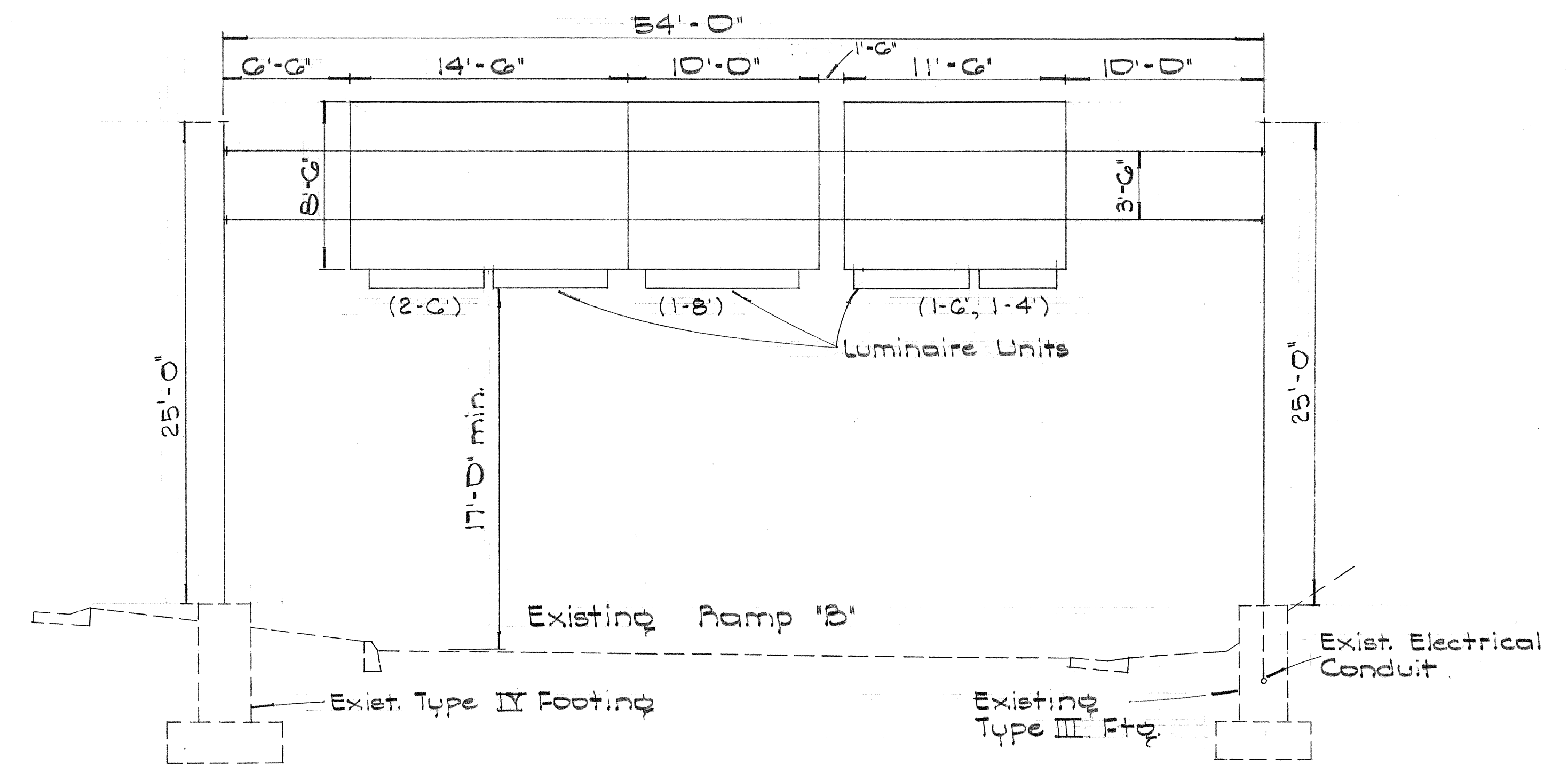
INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Pele St. to Victoria St.
F.A.I. Proj. No. I-HI-1(31), Unit 1
Not to Scale Date: April, 1966

SHEET No. 7 OF 26 SHEETS

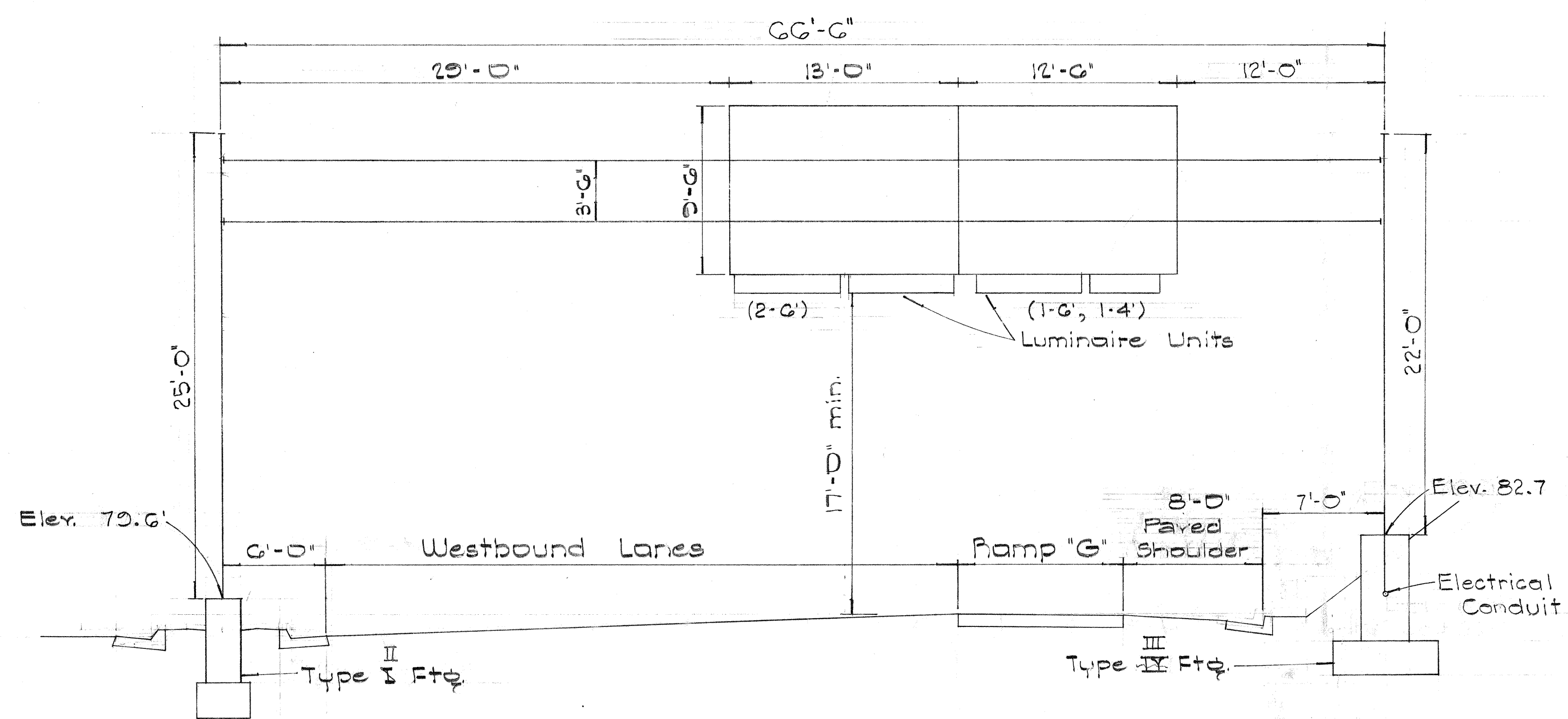
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7-1-1(31) UNIT 1	1967	204	292



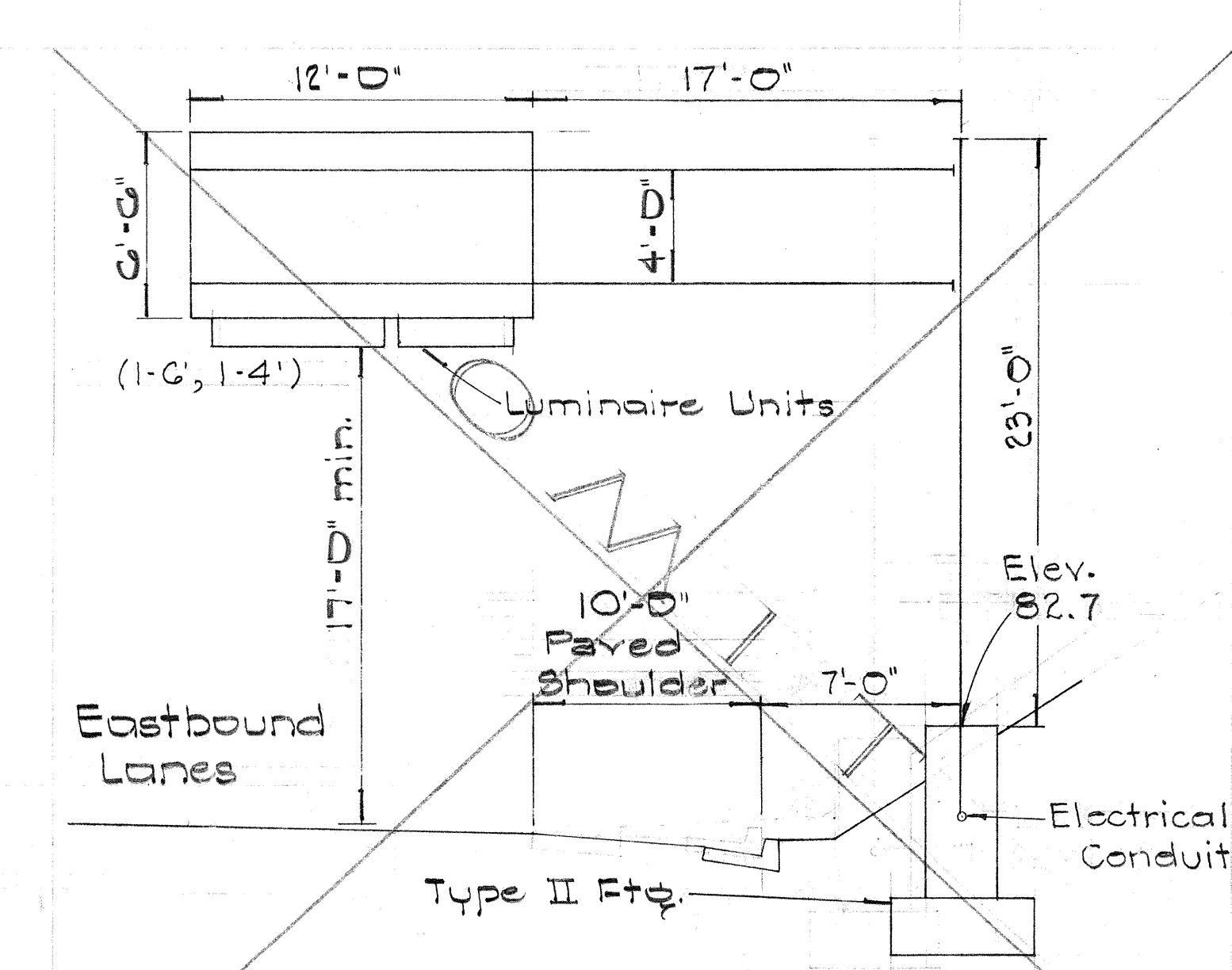
Sign E-1
@ Sta. 143+25



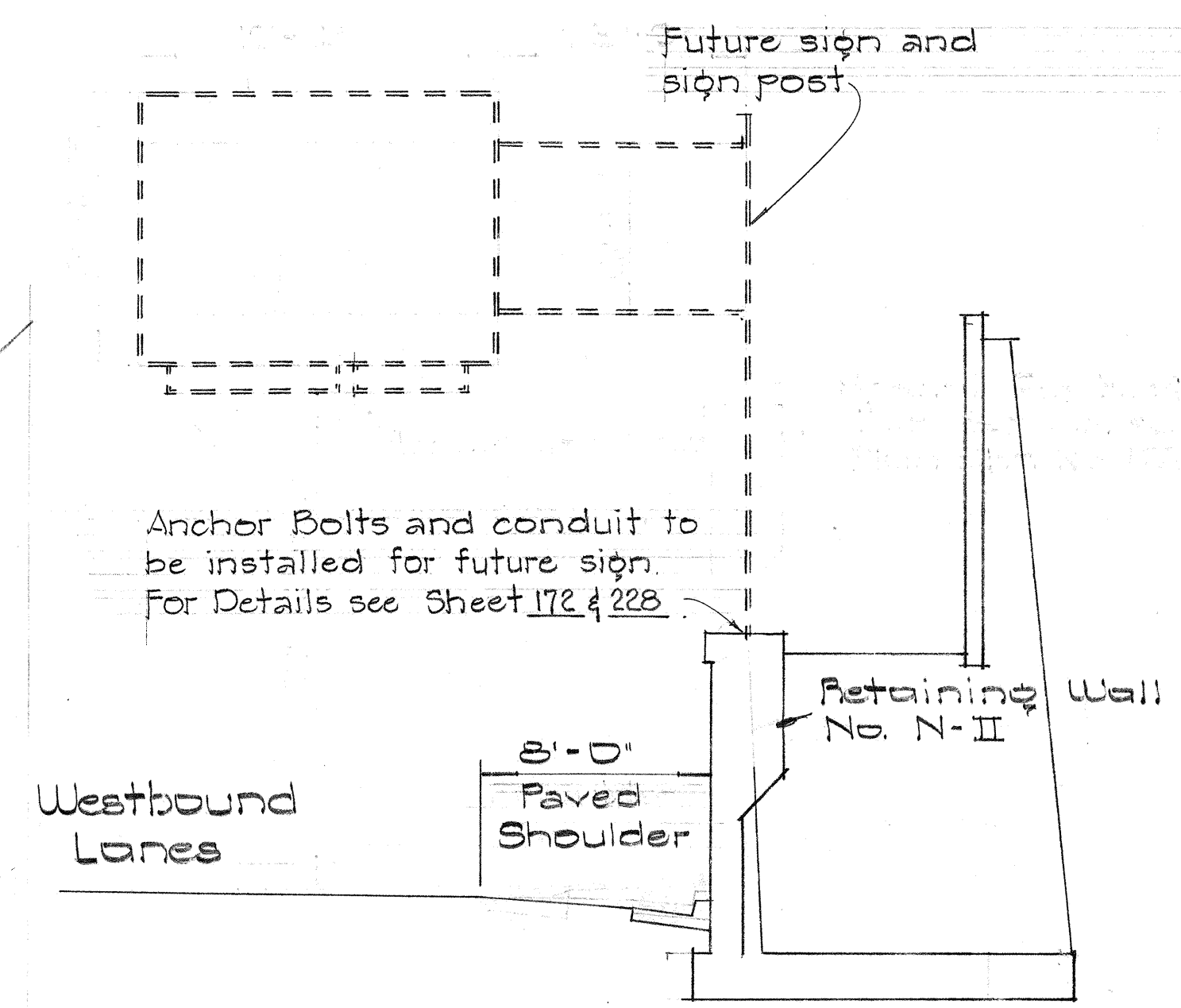
Sign E-2
'B' Line Sta. 11+20



Sign E-3
@ Sta. 167+20



Sign E-4
@ Sta. 172+00



Sign E-5 (FUTURE)
@ Sta. 173+55

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION & EXPRESSWAY SIGNS

FRAME LAYOUT

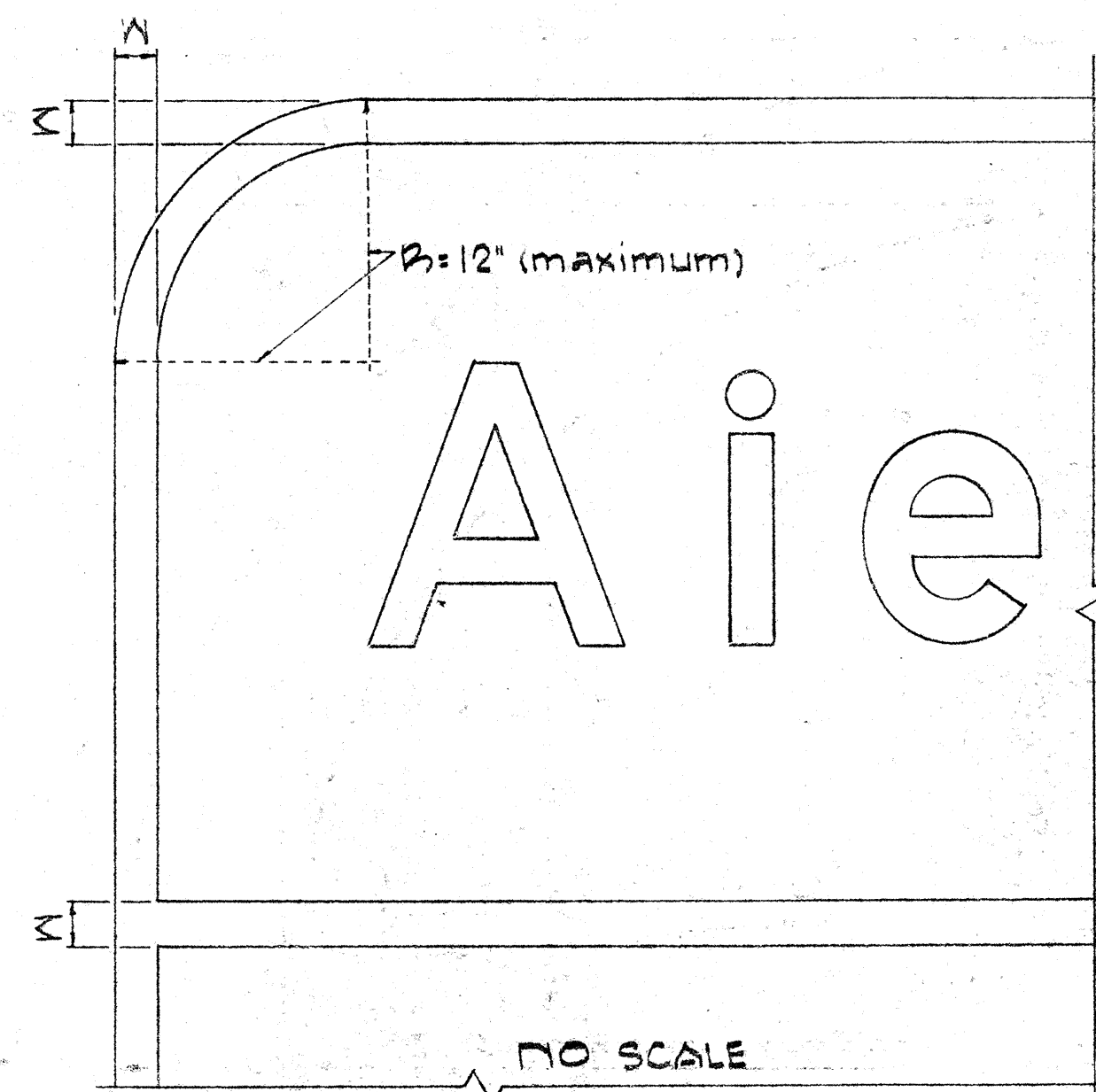
INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Pele St. to Victoria St.
F.A.I. Proj. No. I-HI-1(31), Unit 1
Not to Scale Date April, 1966

SHEET No. 8 OF 26 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____
NO.	_____

GENERAL NOTES

1. State Route Markers on Destination & Expressway signs shall have black numerals and borders on a white reflectorized background mounted on a flat aluminum cut-out.
2. All numerals shall be Series "D" from the "Standard Alphabets for Highway Signs," Bureau of Public Roads, 1957.
3. All cut-outs shall be fastened on sign panel with Aluminum blind rivets. See Special Provisions.



- NOTE:
1. Area outside corner need not be trimmed.
 2. All borders shall be embossed cut-outs, white and reflectorized.
 3. All signs shall have borders.

RADI FOR EXPRESSWAY SIGNS (2" Border)

Least Dimension of Sign	W	R
3'-0" to 4'-6"	2"	3'
4'-9" to 5'-6"	2"	6"
5'-9" to 7'-6"	2"	9"
7'-9" and greater	2"	12"

RADI FOR DESTINATION SIGNS (1" Border)

Least Dimension of Sign	W	R
Any Size	1"	3"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION AND EXPRESSWAY SIGN
STATE ROUTE MARKER
AND BORDER DETAILS

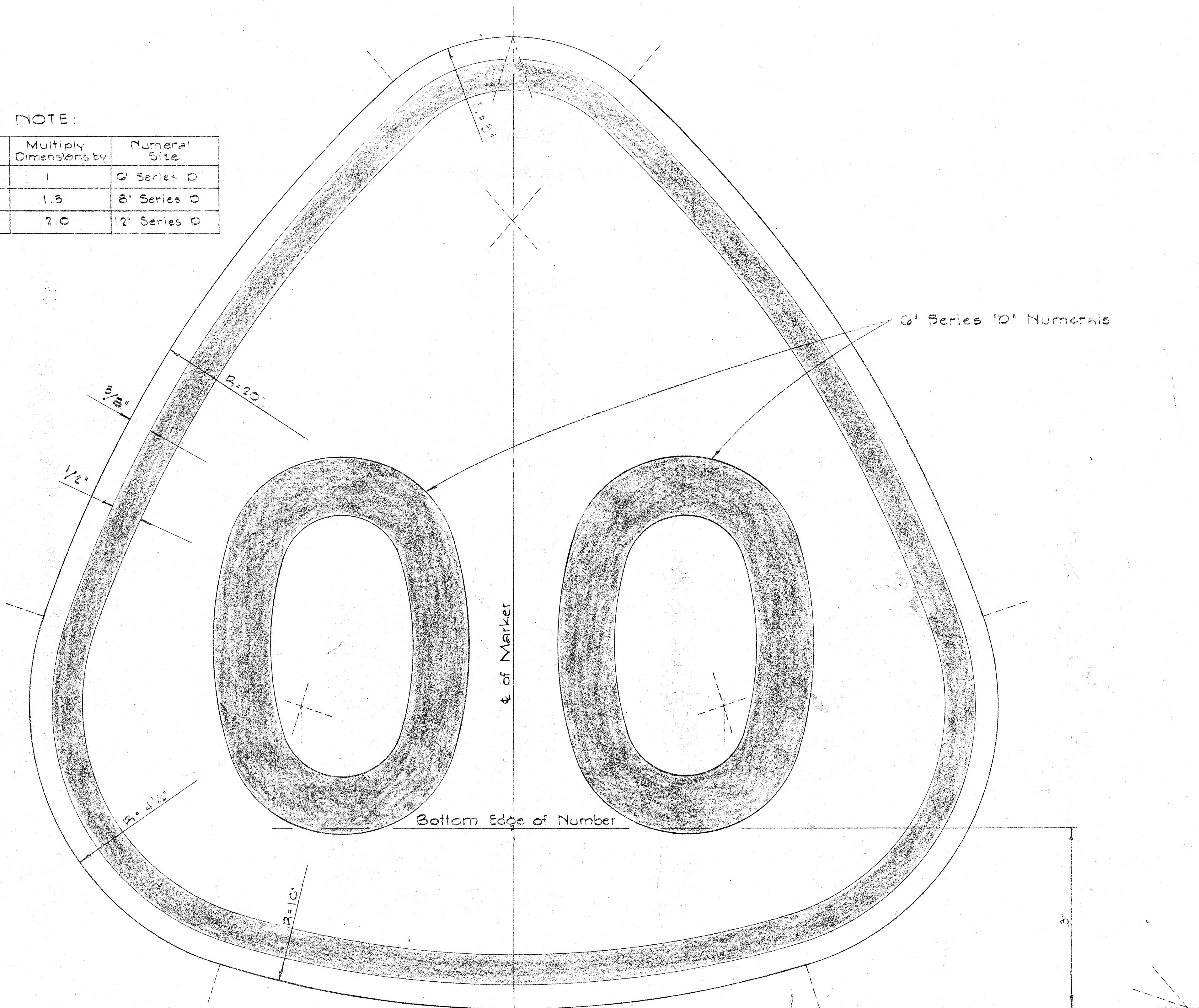
Scale: As Noted

SHEET No. 10 OF 26 SHEETS

206

NOTE:

Shield Size	Multiply Dimensions by	Numerical Size
16"	1	6" Series D
24"	1.5	8" Series D
32"	2.0	12" Series D

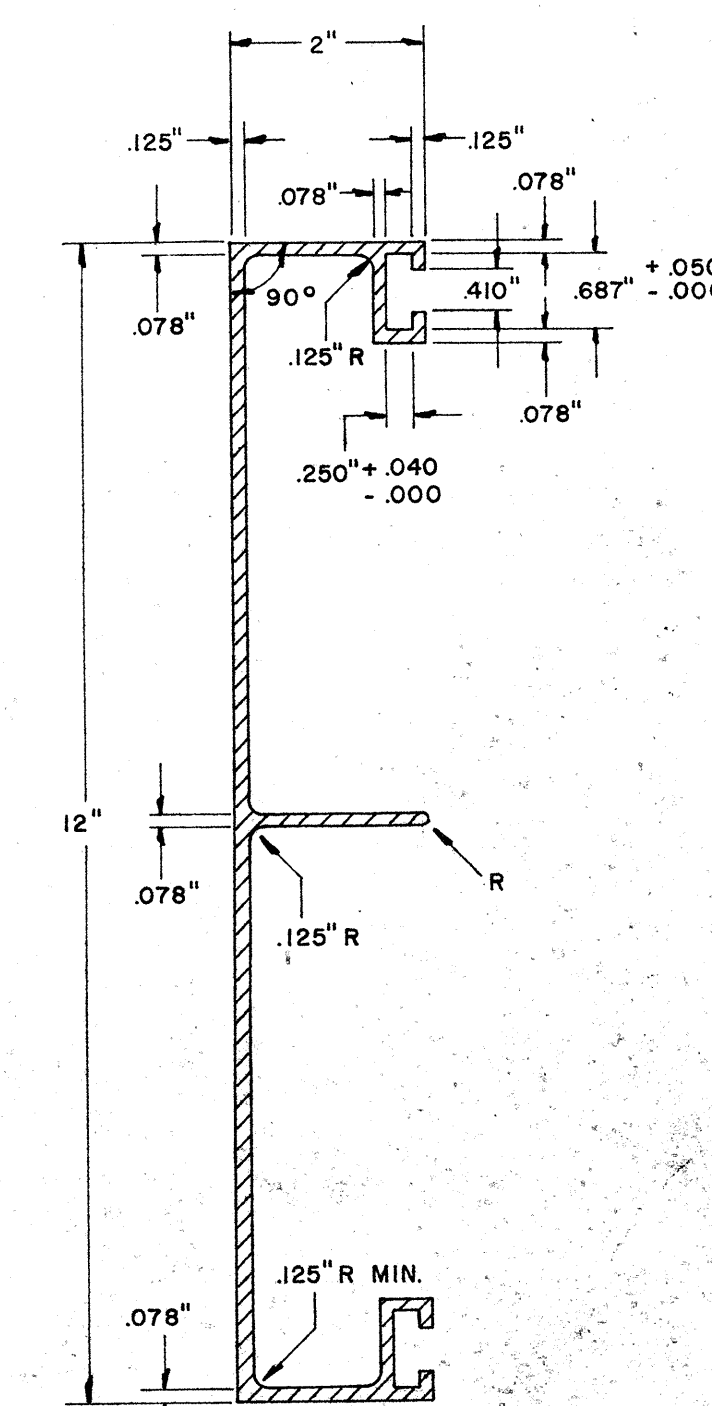


STATE ROUTE MARKER
FOR
DESTINATION & EXPRESSWAY SIGNS

Scale: Full Size

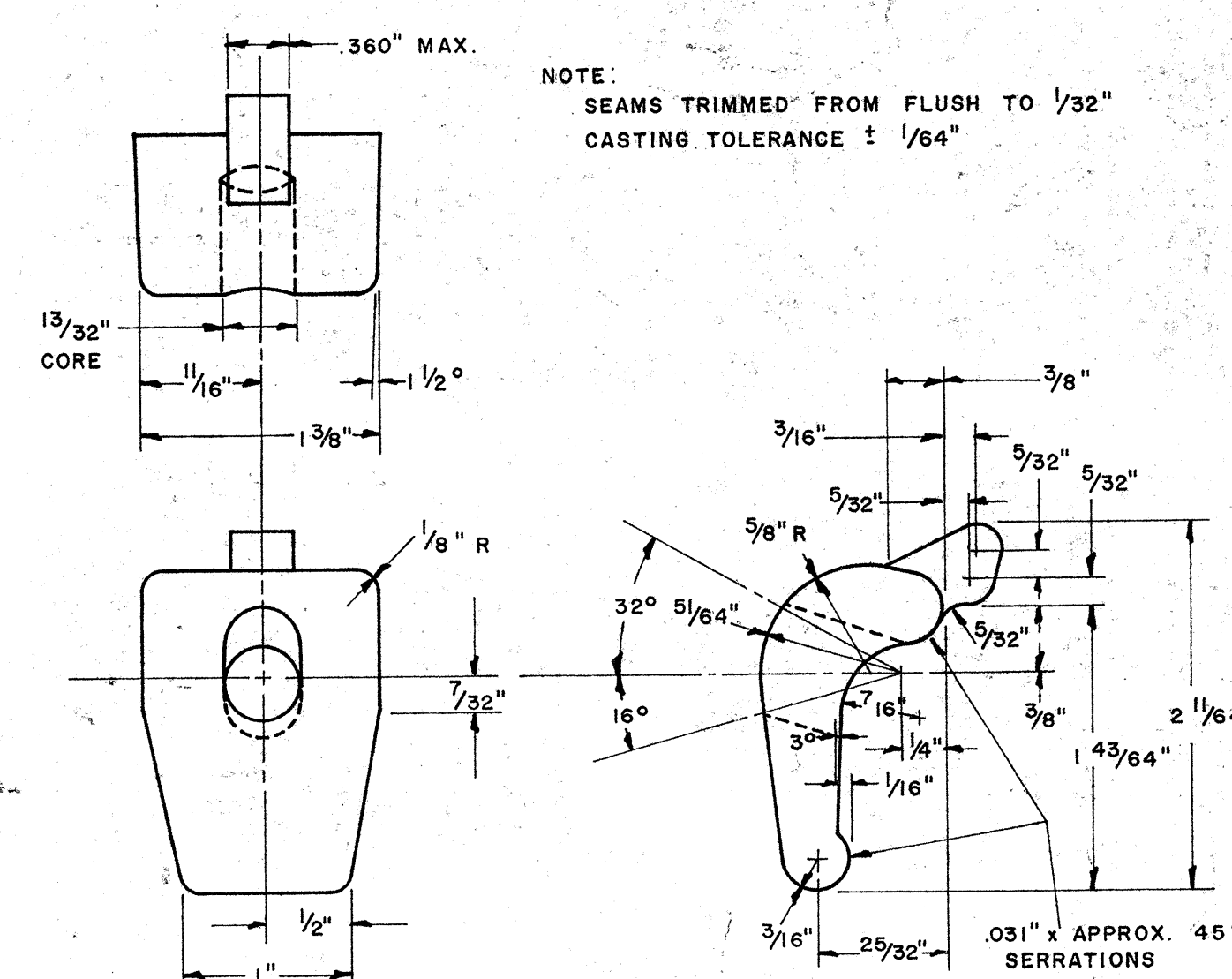
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

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



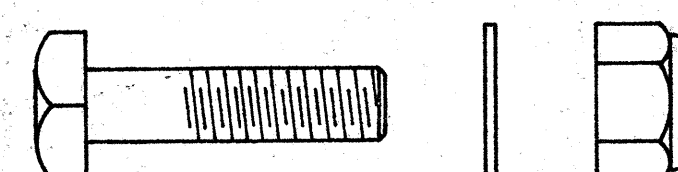
6" SIGN PANEL
WT./ LINEAL FT. - 1.103 LBS. MIN.
ALLOY - 6061 - F(1)
MOMENT OF INERTIA - 0.487 MIN
MINIMUM SECTION MODULUS 0.341

12" SIGN PANEL
WT./LINEAL FT. -2.690 LBS. MIN.
ALLOY - 6061 - F(1)
MOMENT OF INERTIA 0.936 MIN.
MINIMUM SECTION MODULUS 0.605



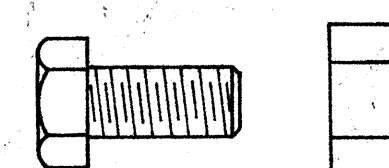
POST CLIP DETAIL

ALLOY 356 - T6



POST CLIP BOLT ASSEMBLY

3/8" - 16 x 1 3/4" LONG SQ. HD. BOLT - ALLOY 2024-T4
3/8" - 16 LOCK NUT - ALLOY 2017-T4
25/32" ID x 3/4" OD x .09" WASHER - ALLOY ALCLAD 2024-T4



PANEL BOLT ASSEMBLY

3/8"-16 x 3/4" LONG HEX. HD. BOLT - ALLOY 2024 - T4
3/8"-16 HEX. NUT - ALLOY 6061-T6
FLAT WASHER - ALLOY ALCLAD 2024-T4

NOTE:
Extruded Aluminum Panels may be used for
Destination Signs with Reflective Sheeting
Background.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

SOLID ALUMINUM
EXTRUDED SIGN PANEL
AND
ACCESSORY DETAILS

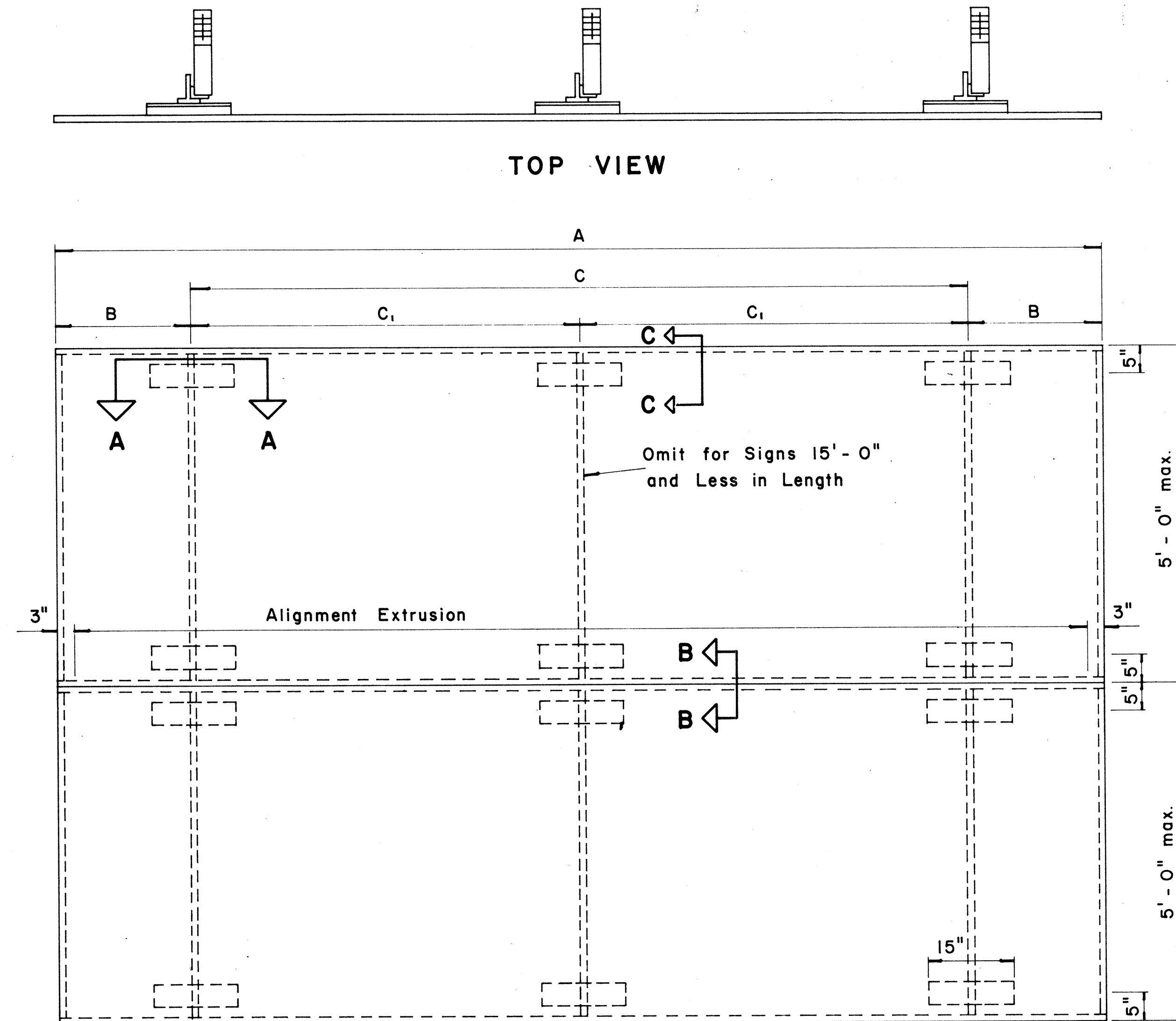
SCALE:

SHEET No. 11 OF 26 SHEETS

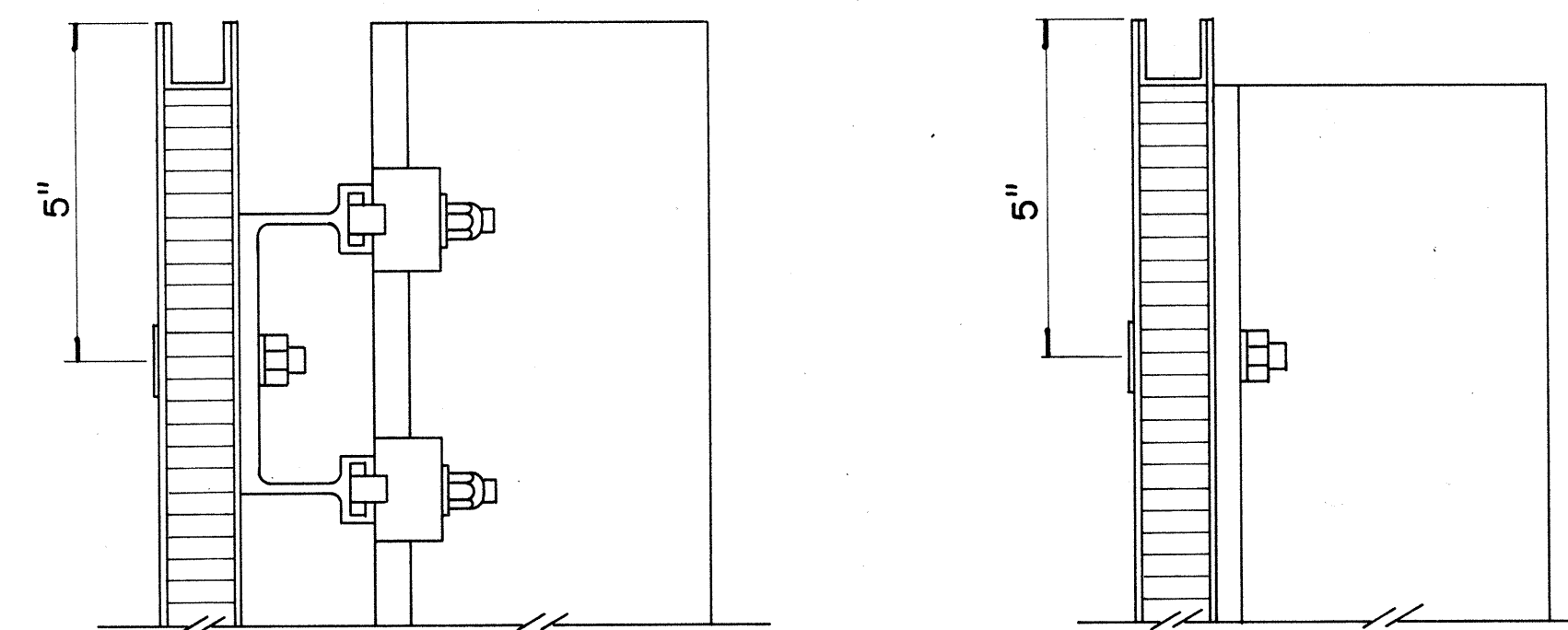
205

(OVERHEAD SIGNS)
SUPPORT SPACING TABLE

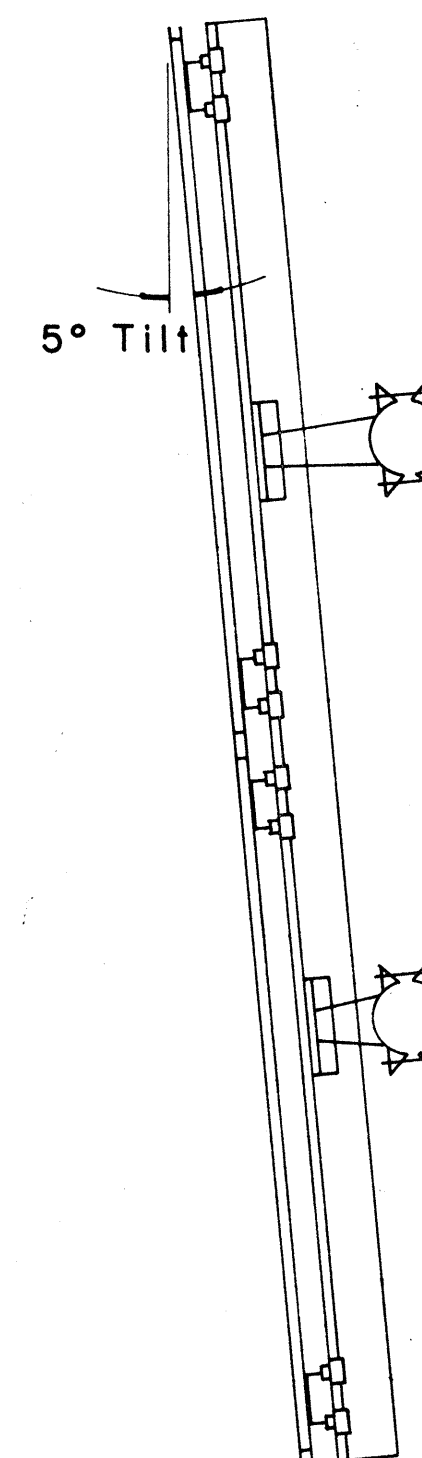
PANEL THICK.	LENGTH OF SIGN A	NO. OF SUPPORTS	OVERHANG B	SUPPORT SPACING C or C ₁
1"	6'-0"	2	12"	48"
1"	6'-6"	2	15"	48"
1"	7'-0"	2	15"	54"
1"	7'-6"	2	18"	54"
1"	8'-0"	2	18"	60"
1"	8'-6"	2	20"	62"
1"	9'-0"	2	22"	64"
1"	9'-6"	2	23"	68"
1"	10'-0"	2	24"	72"
1"	10'-6"	2	24"	78"
1"	11'-0"	2	24"	84"
1"	11'-6"	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"
1"	15'-6"	3	24"	69"
1"	16'-0"	3	24"	72"
1"	16'-6"	3	24"	75"
1"	17'-0"	3	24"	78"
1"	17'-6"	3	24"	81"
1"	18'-0"	3	24"	84"
1"	18'-6"	3	27"	84"
1"	19'-0"	3	27"	87"
1"	19'-6"	3	27"	90"
1"	20'-0"	3	30"	90"
1"	20'-6"	3	30"	93"
1"	21'-0"	3	30"	96"
1"	21'-6"	3	33"	96"
1"	22'-0"	3	36"	96"
1"	22'-6"	3	36"	99"
1"	23'-0"	3	36"	102"
1"	23'-6"	3	36"	105"
1"	24'-0"	3	36"	108"



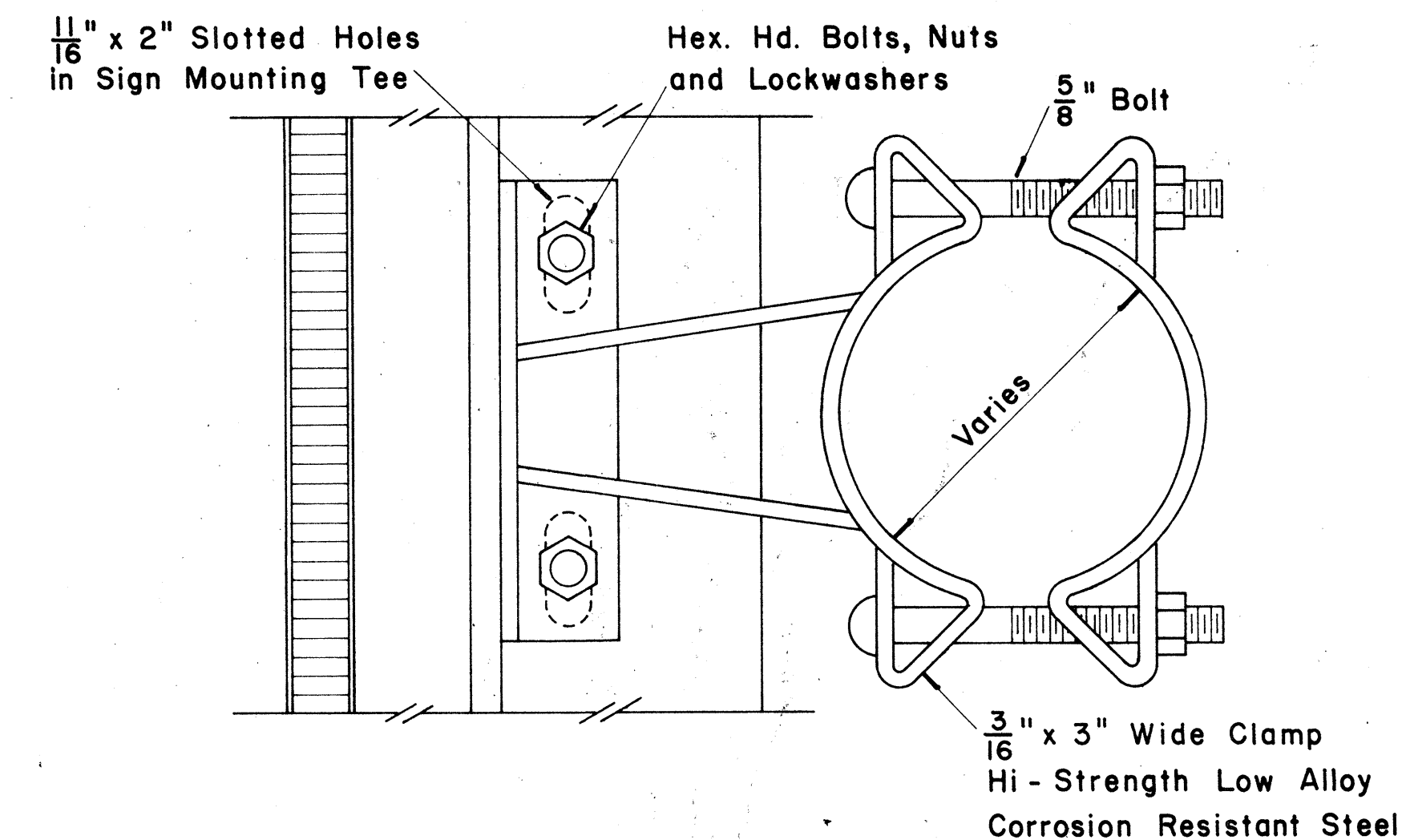
ELEVATION
TYPICAL SIGN ASSEMBLY
Scale: $\frac{3}{4}$ " = 1' - 0"



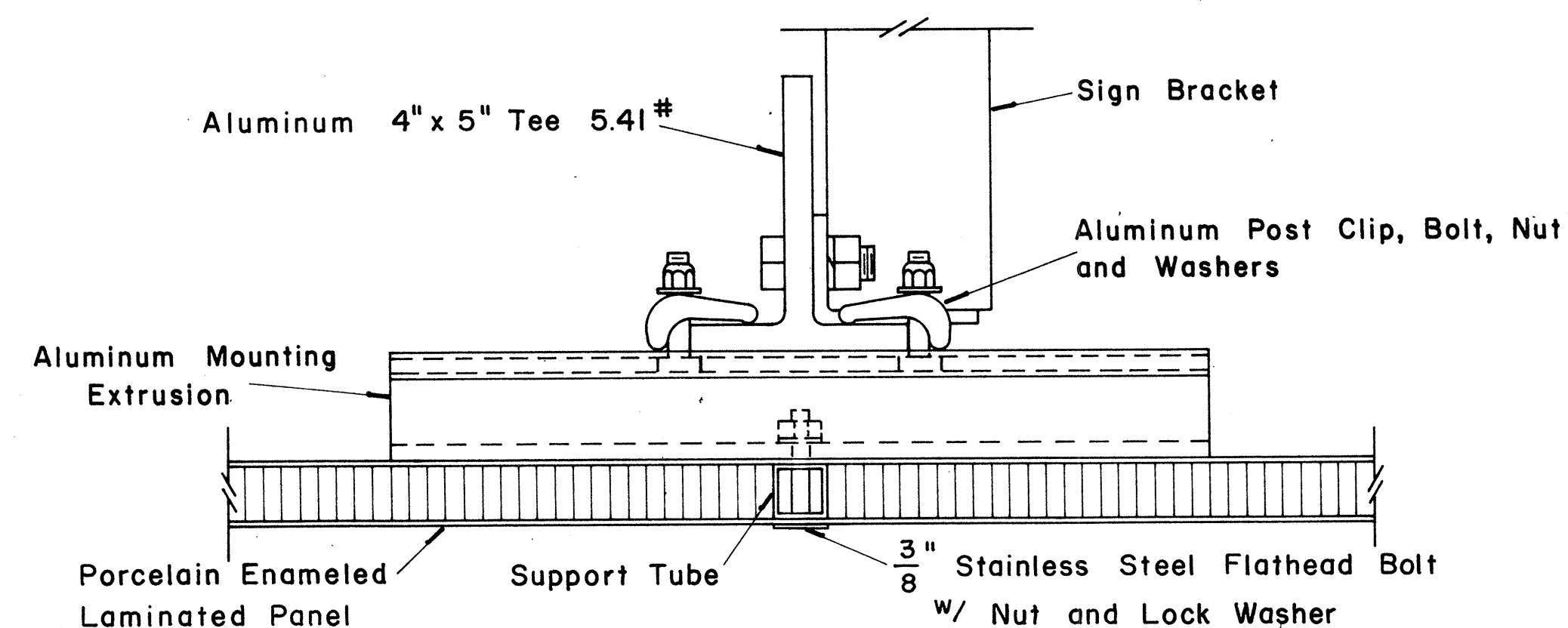
SECTION "C - C"
Scale: $\frac{3}{8}$ " = 1"
SECTION "C - C"
(Alternate)
Scale: $\frac{3}{8}$ " = 1"



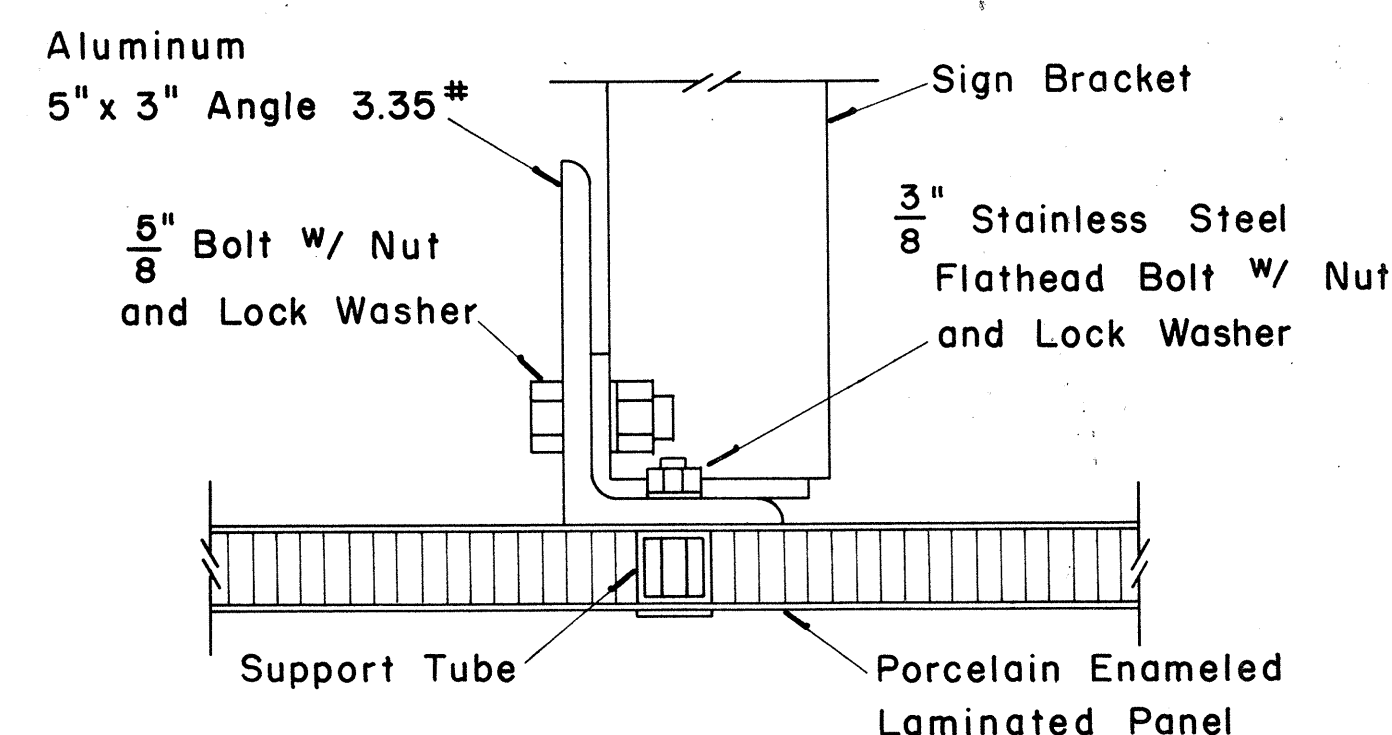
SIDE VIEW



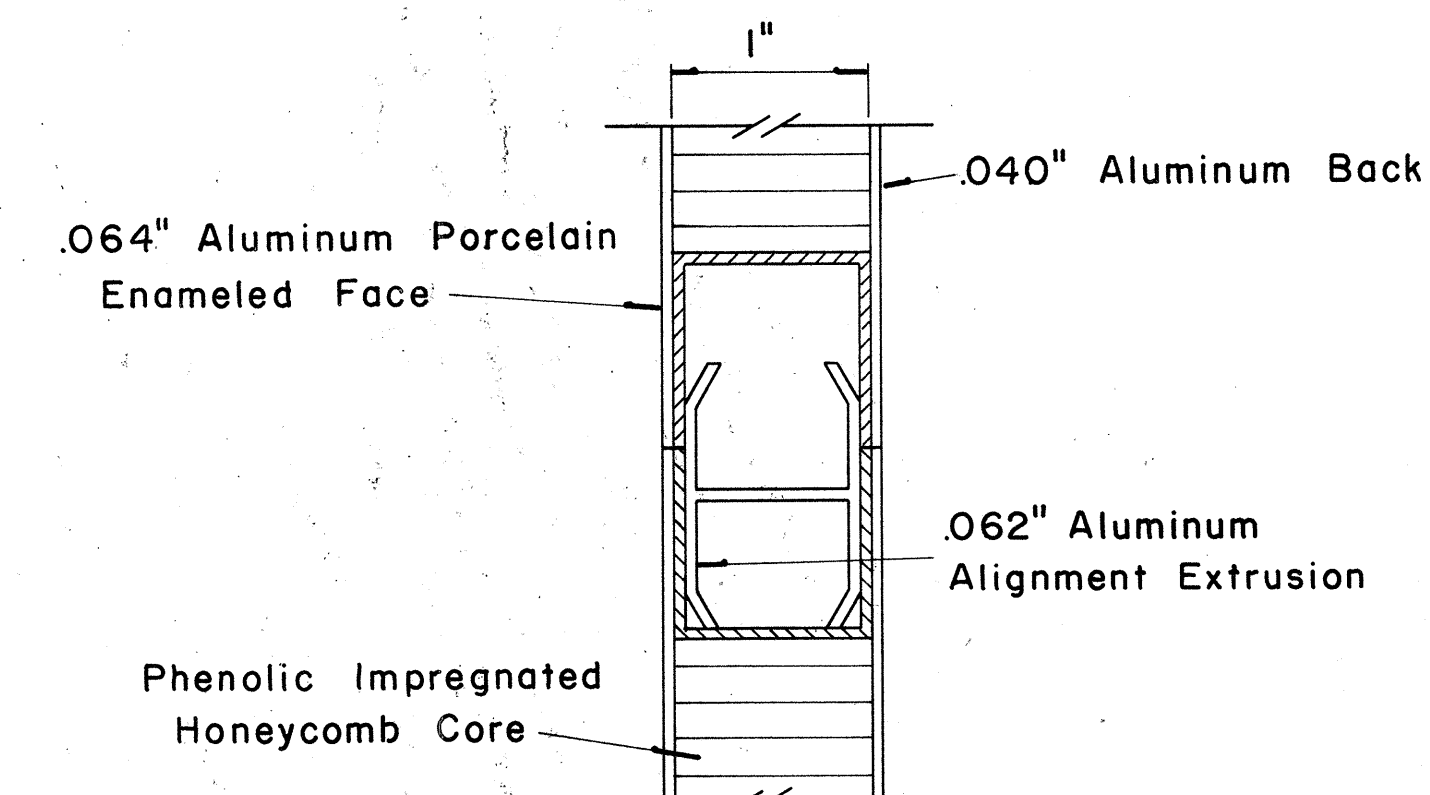
SIGN BRACKET ASSEMBLY
Scale: $\frac{3}{8}$ " = 1"



SECTION "A - A"
Scale: $\frac{3}{8}$ " = 1"



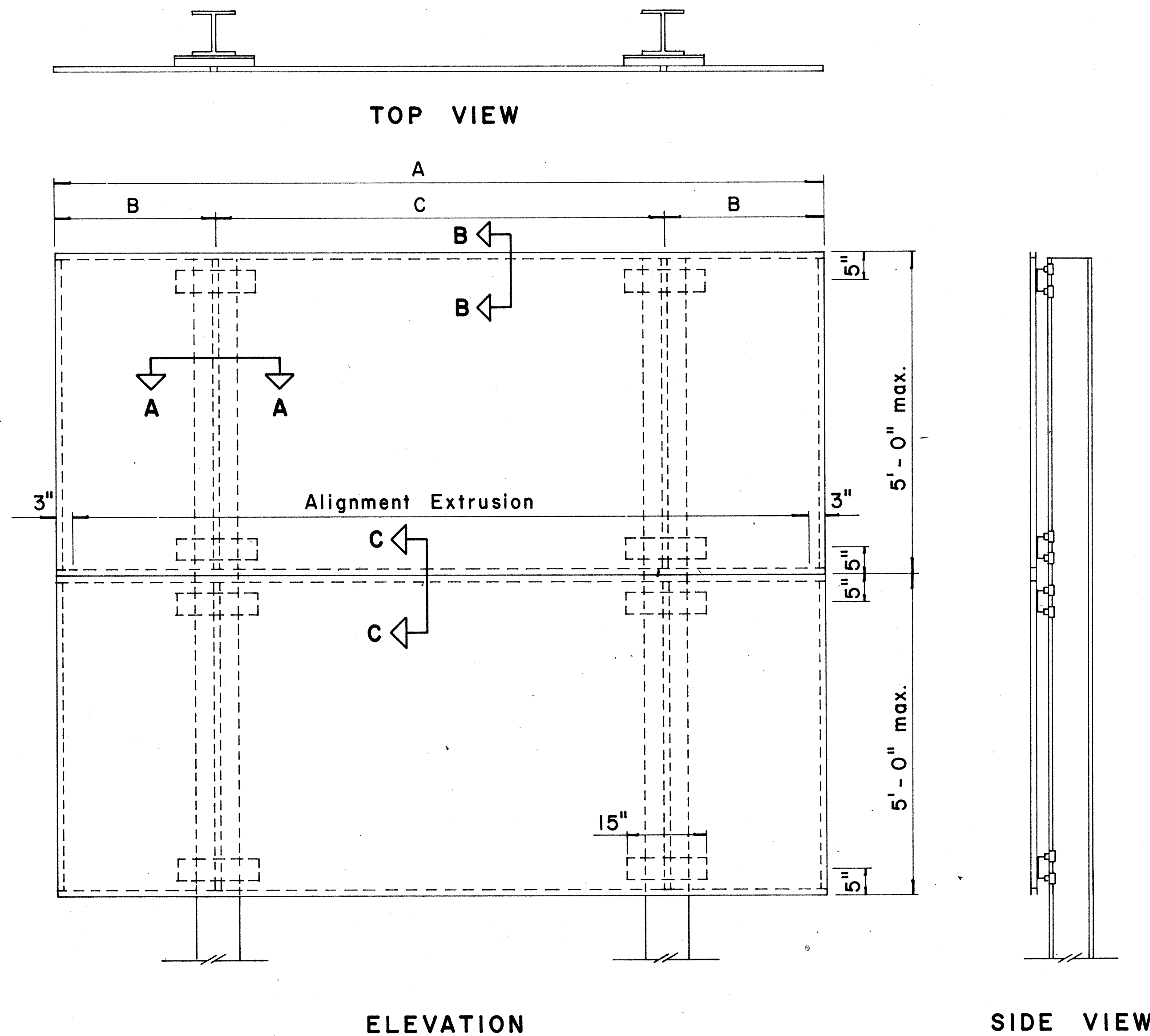
SECTION "A - A"
(Alternate)
Scale: $\frac{3}{8}$ " = 1"



CLOSURE DETAIL
SECTION "B - B"
FULL SCALE

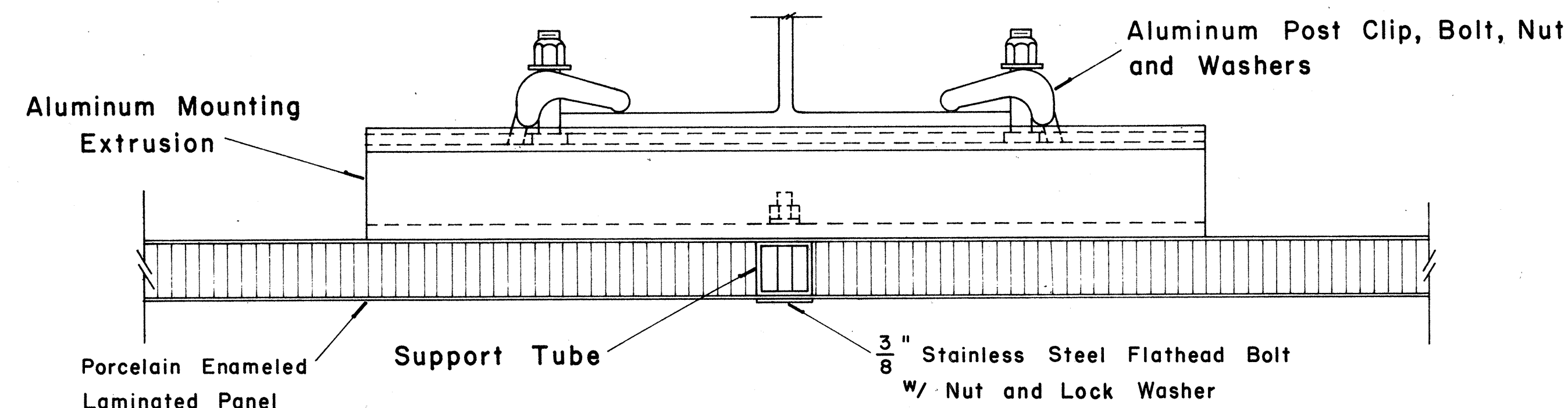
(GROUND MOUNTED SIGNS)
SUPPORT SPACING TABLE

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"



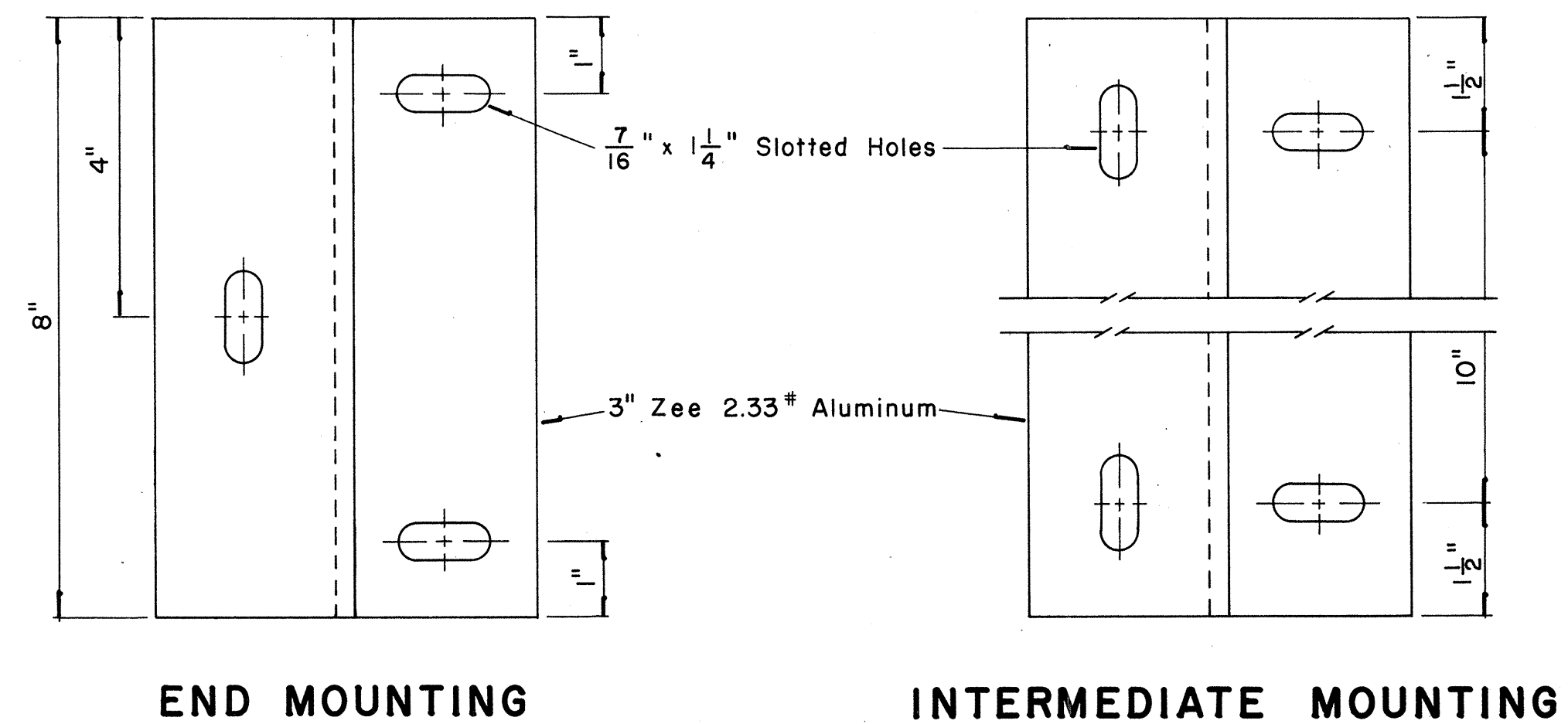
TYPICAL SIGN ASSEMBLY

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



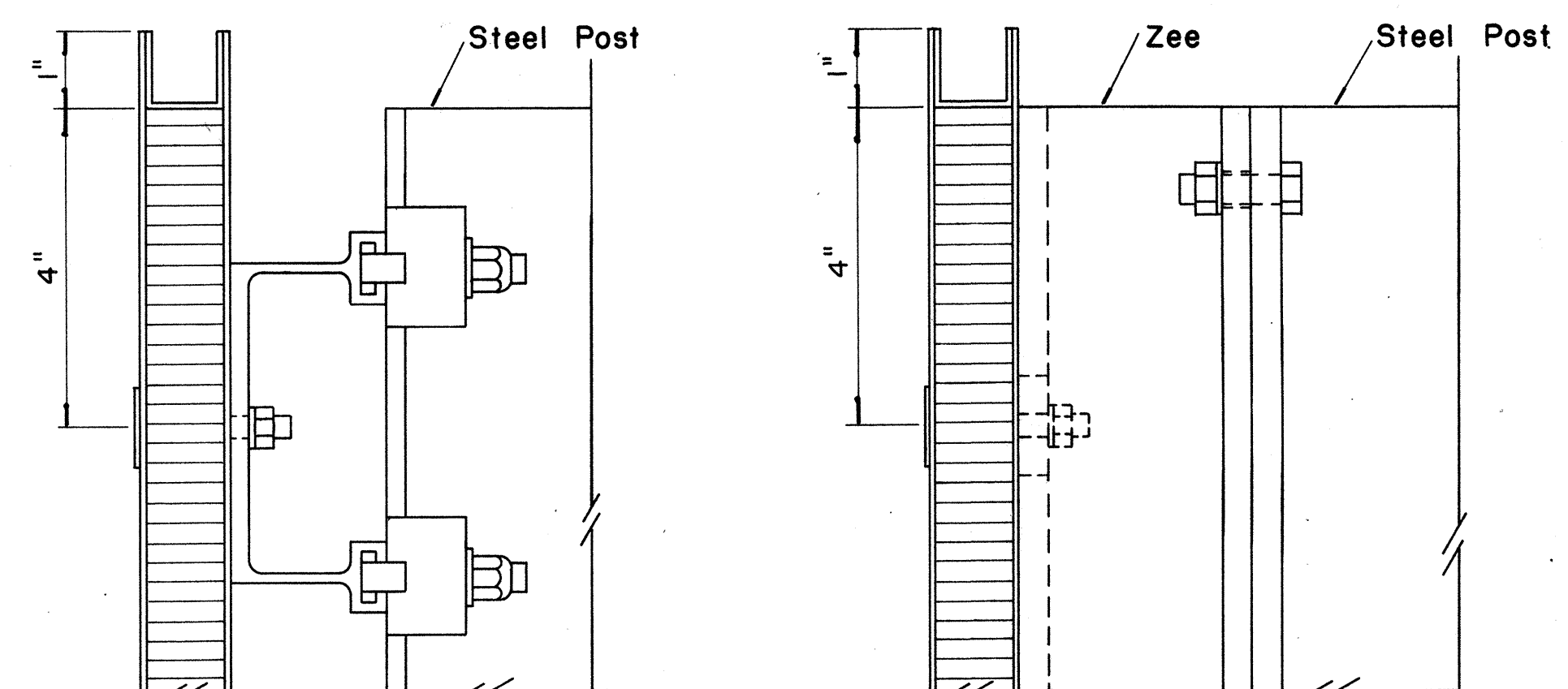
SECTION "A-A"

Scale: $\frac{1}{2}" = 1"$



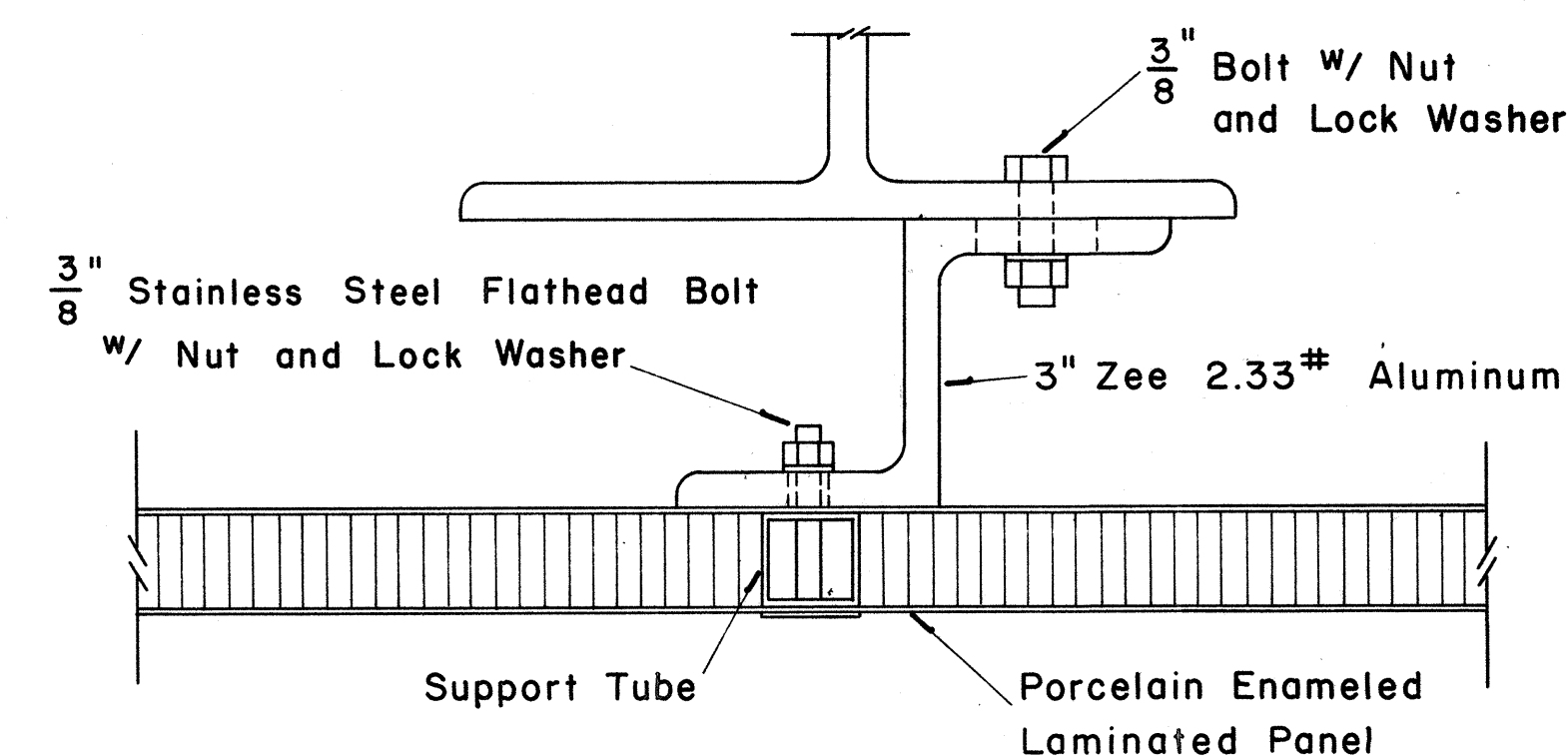
ZEE MOUNTING DETAILS

Scale: $\frac{1}{2}" = 1"$



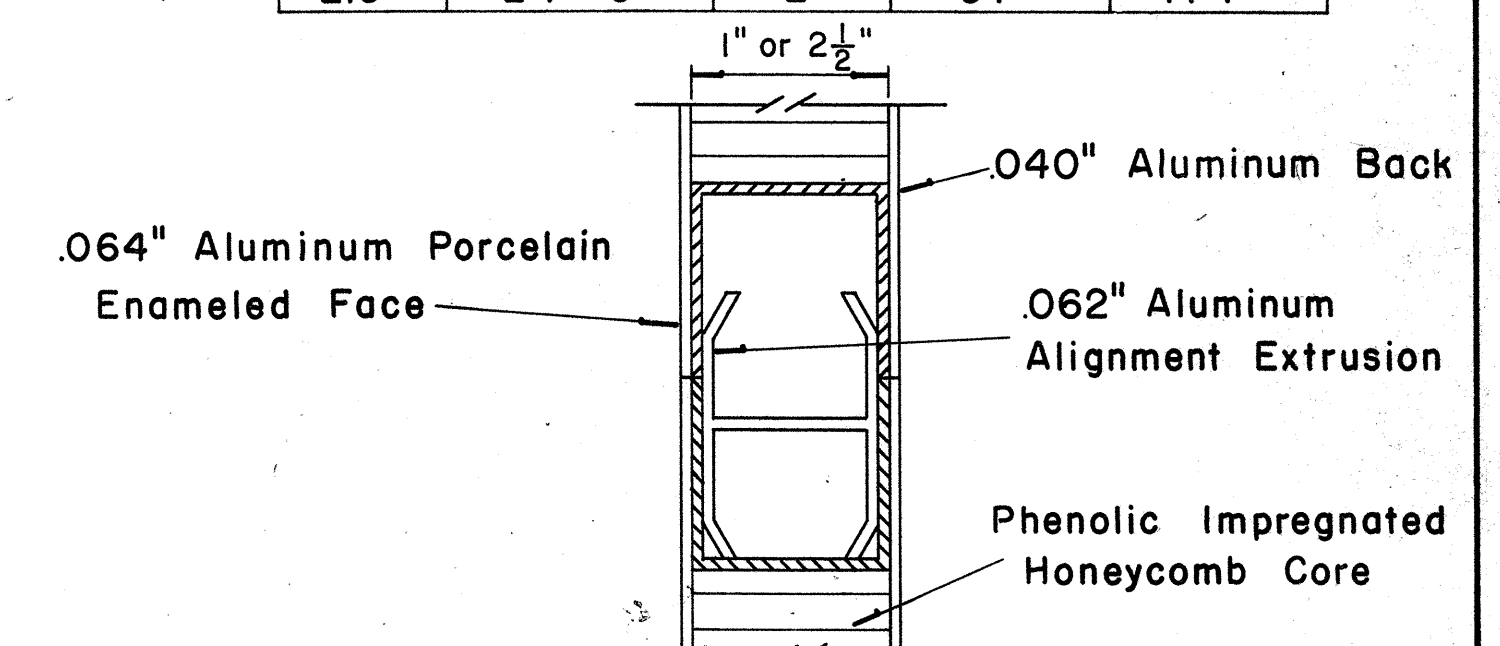
Scale: $\frac{1}{2}" = 1"$

Scale: $\frac{1}{2}" = 1"$



SECTION "A-A" (Alternate)

Scale: $\frac{1}{2}" = 1"$



CLOSURE DETAIL
SECTION "C-C"

FULL SCALE

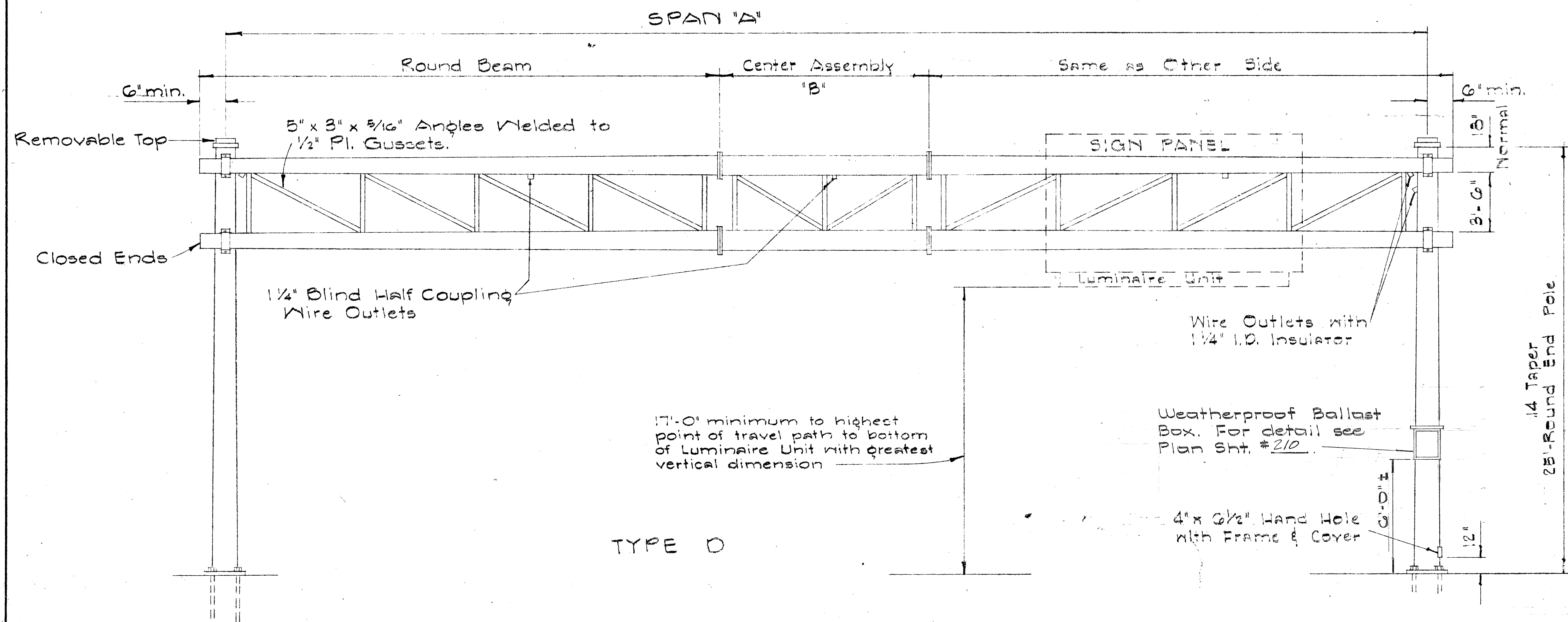
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
LAMINATED ALUMINUM
SIGN PANELS
(GROUND MOUNTED)

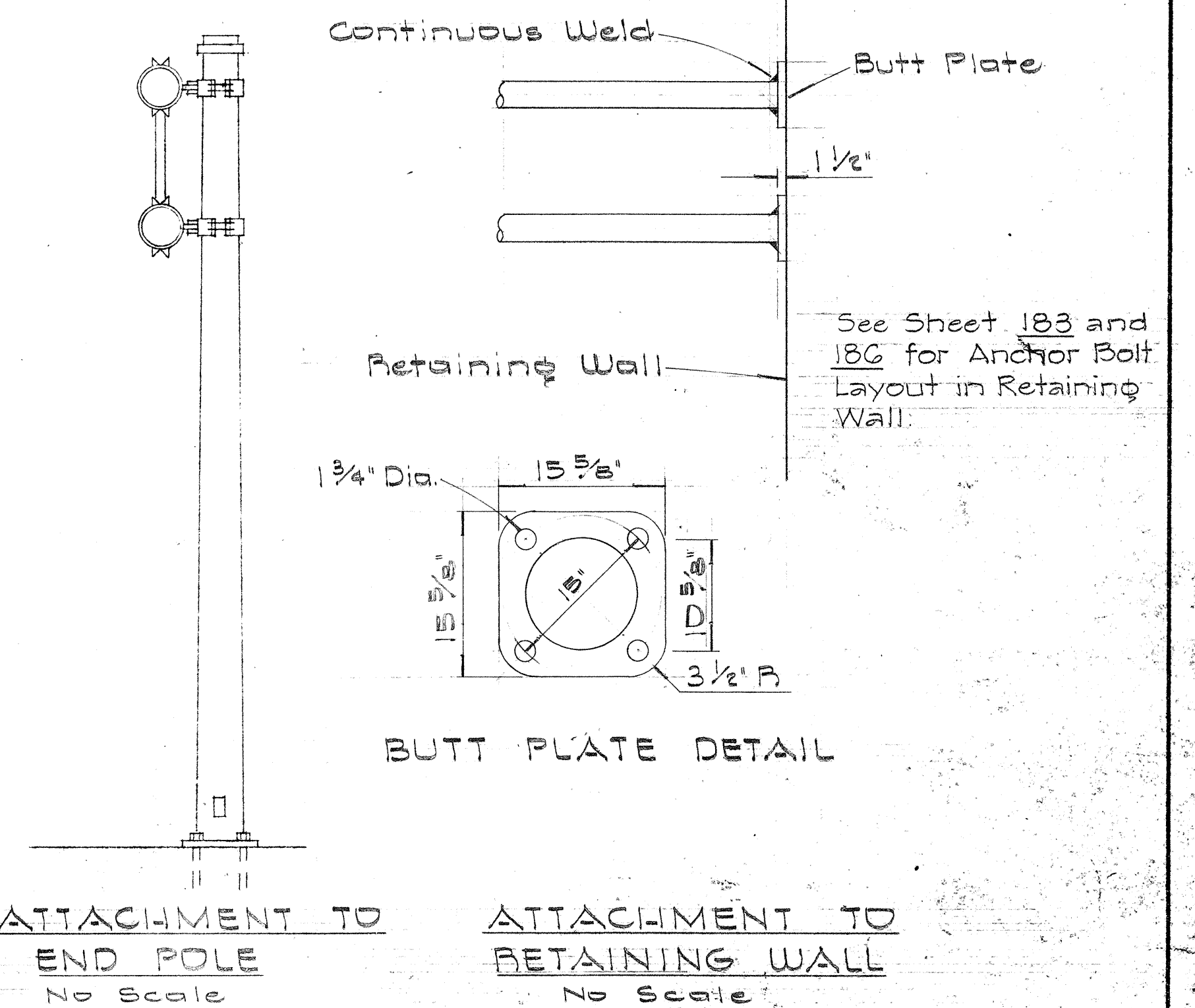
Scale: As Shown

SHEET No. 13 OF 20 SHEETS

2 1 9

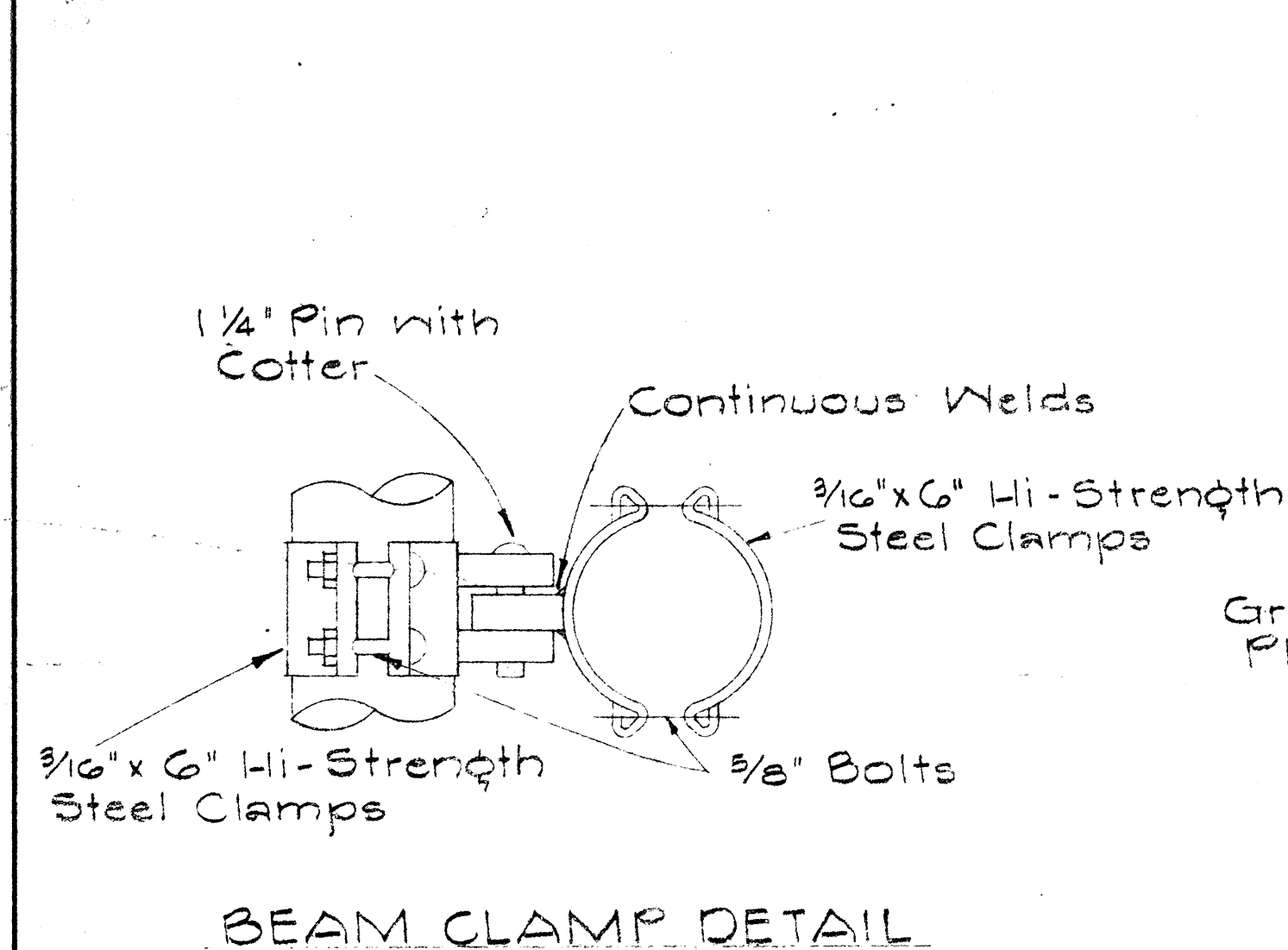


TYPE D

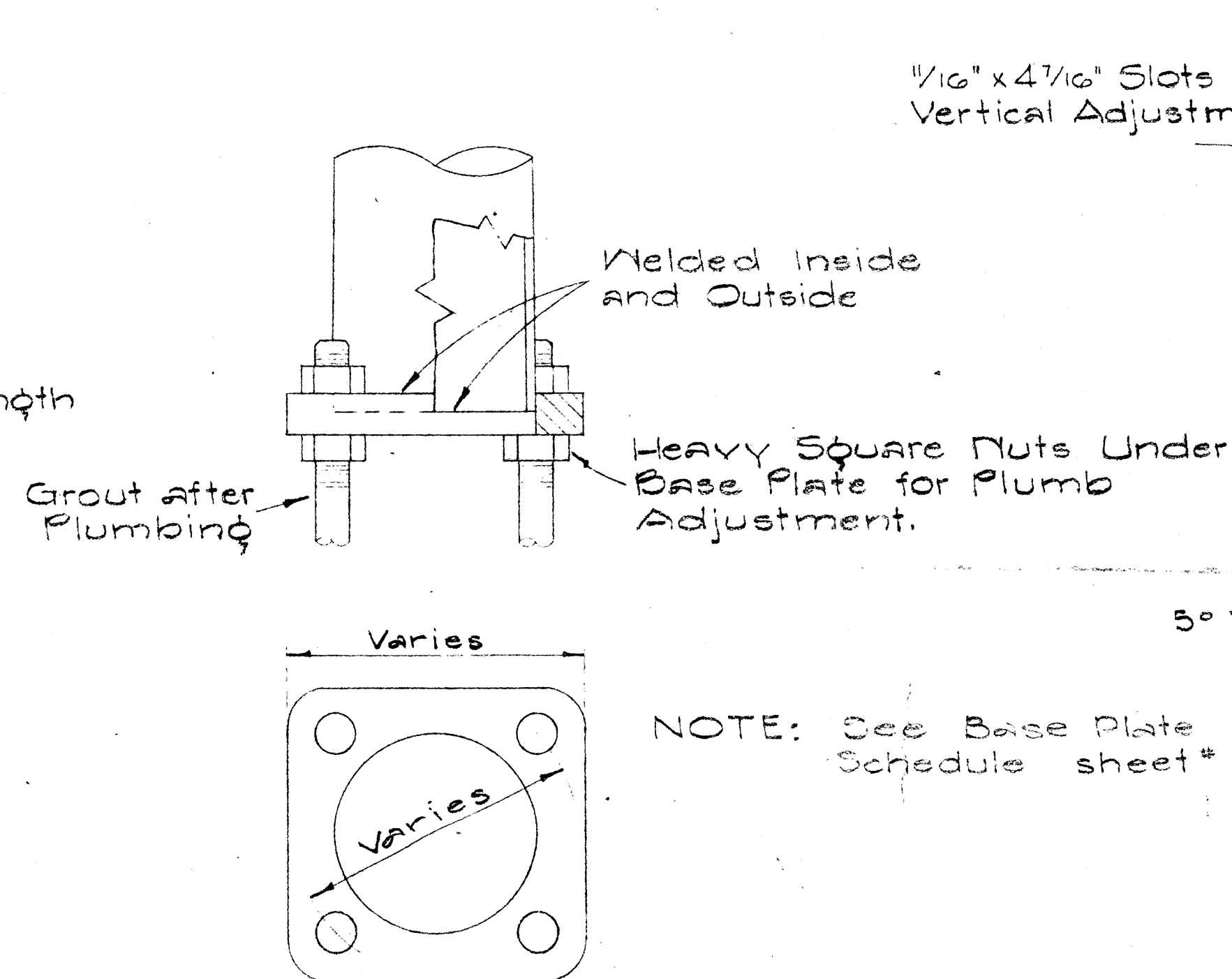


ATTACHMENT TO
END POLE
No Scale

ATTACHMENT TO
RETAINING WALL
No Scale

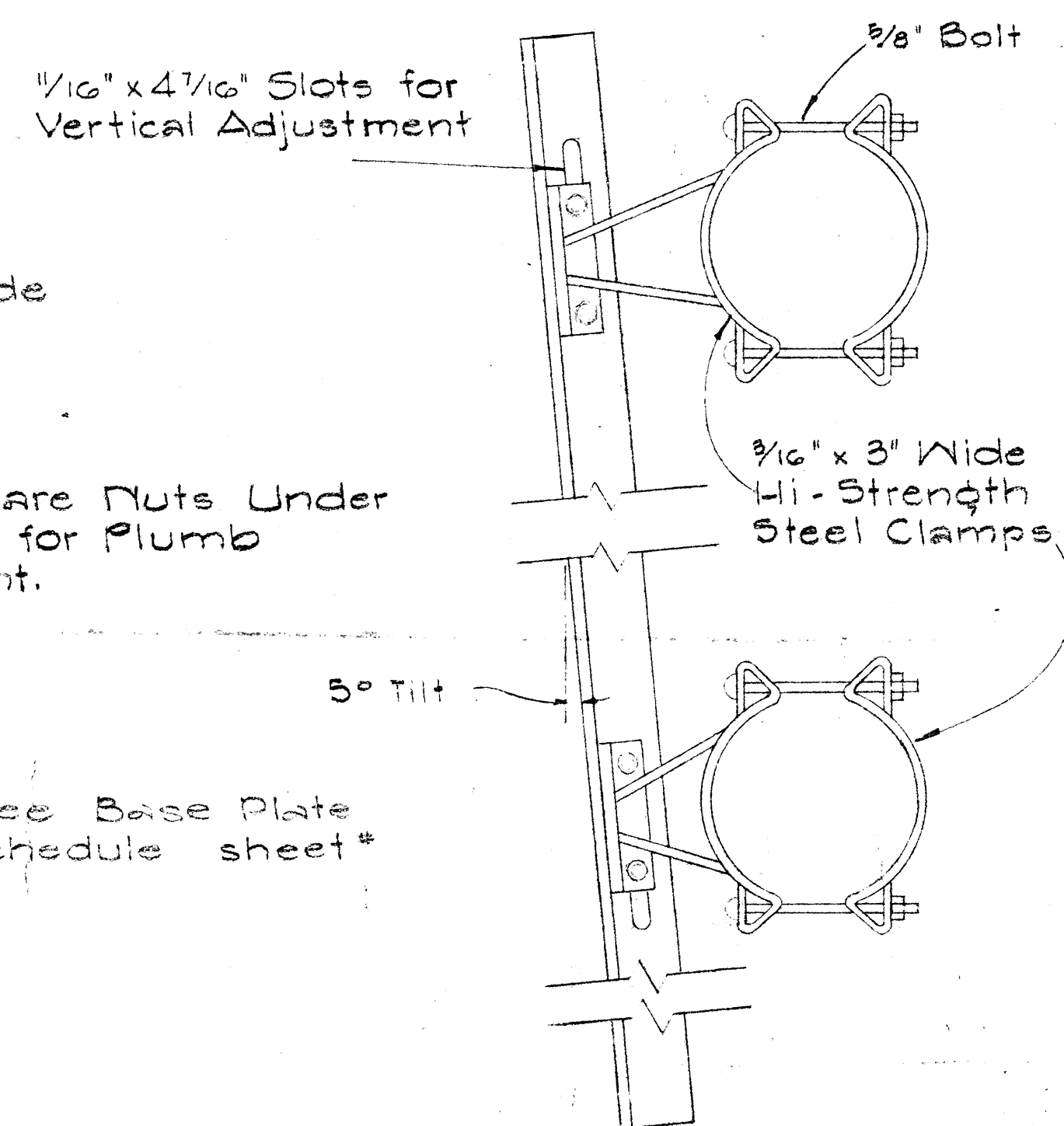


BEAM CLAMP DETAIL

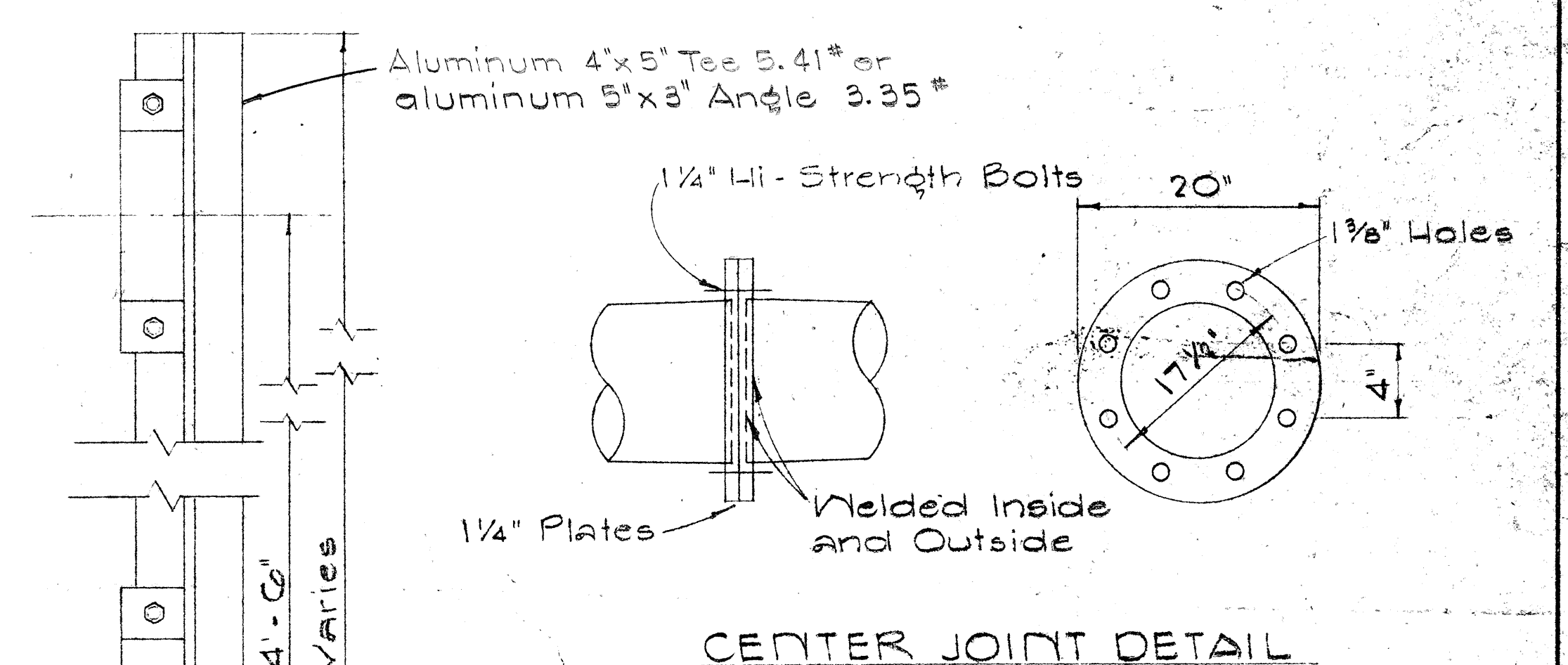


POLE BASE DETAIL

NOTE: See Base Plate
Schedule sheet*



SIGN BRACKET ASSEMBLY



CENTER JOINT DETAIL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPE D
OVERHEAD SIGN SUPPORT
TWO-TUBE TRUSS TYPE
STEEL

SHEET No. 15 OF 26 SHEETS

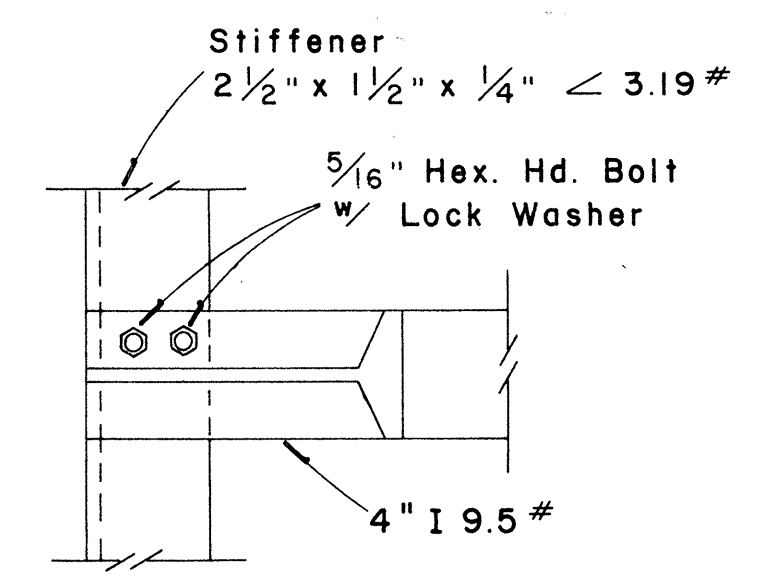
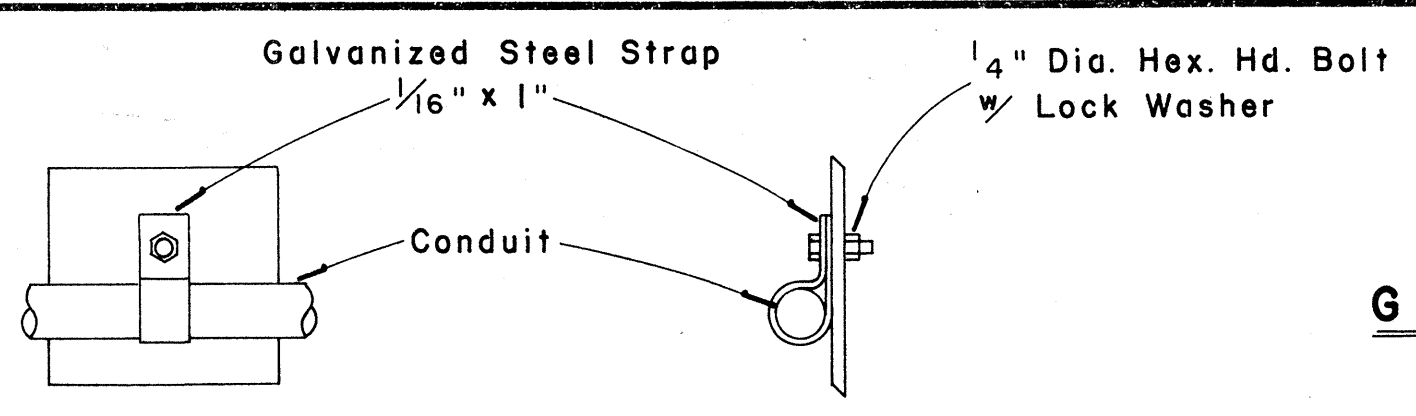
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-5-1000 UNIT 1	1007	212	292

GENERAL NOTES

1. Conduit sizes: $\frac{3}{4}$ " diameter for one or two Luminaire Units, 1" diameter for three or more Luminaire Units.
2. Fluorescent Fixtures shall be installed as recommended by the manufacturer.
3. Luminaire brackets shall be spaced to fit 4'-0" to 6'-0" luminaires with fittings. Eight feet (8'-0") luminaires shall have an additional bracket at midpoint.
4. All parts of the bracket shall be hot-dip galvanized, prime coated with a suitable primer and painted with three coats of dark green enamel.

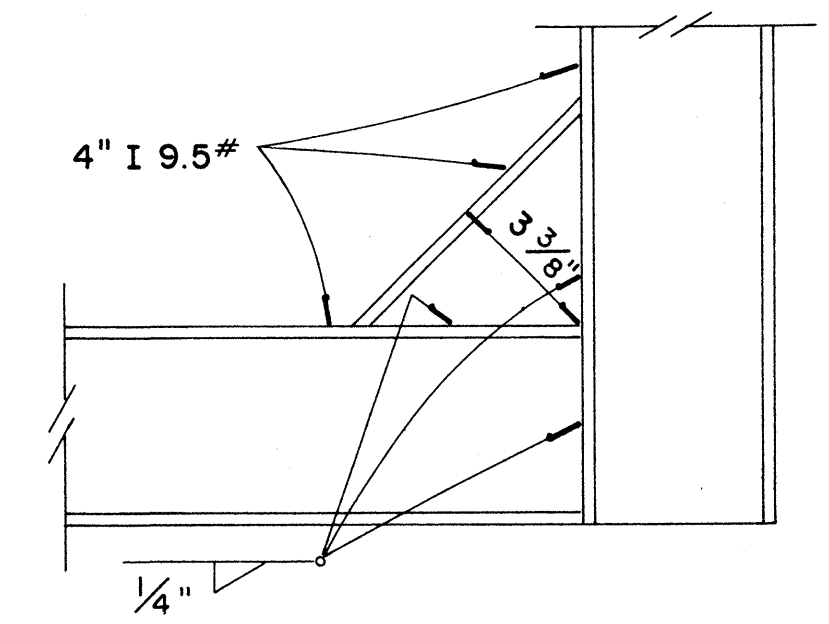
CONDUIT STRAP DETAIL

Scale: 3" = 1'-0"



DETAIL "A"

Scale: 3" = 1'-0"

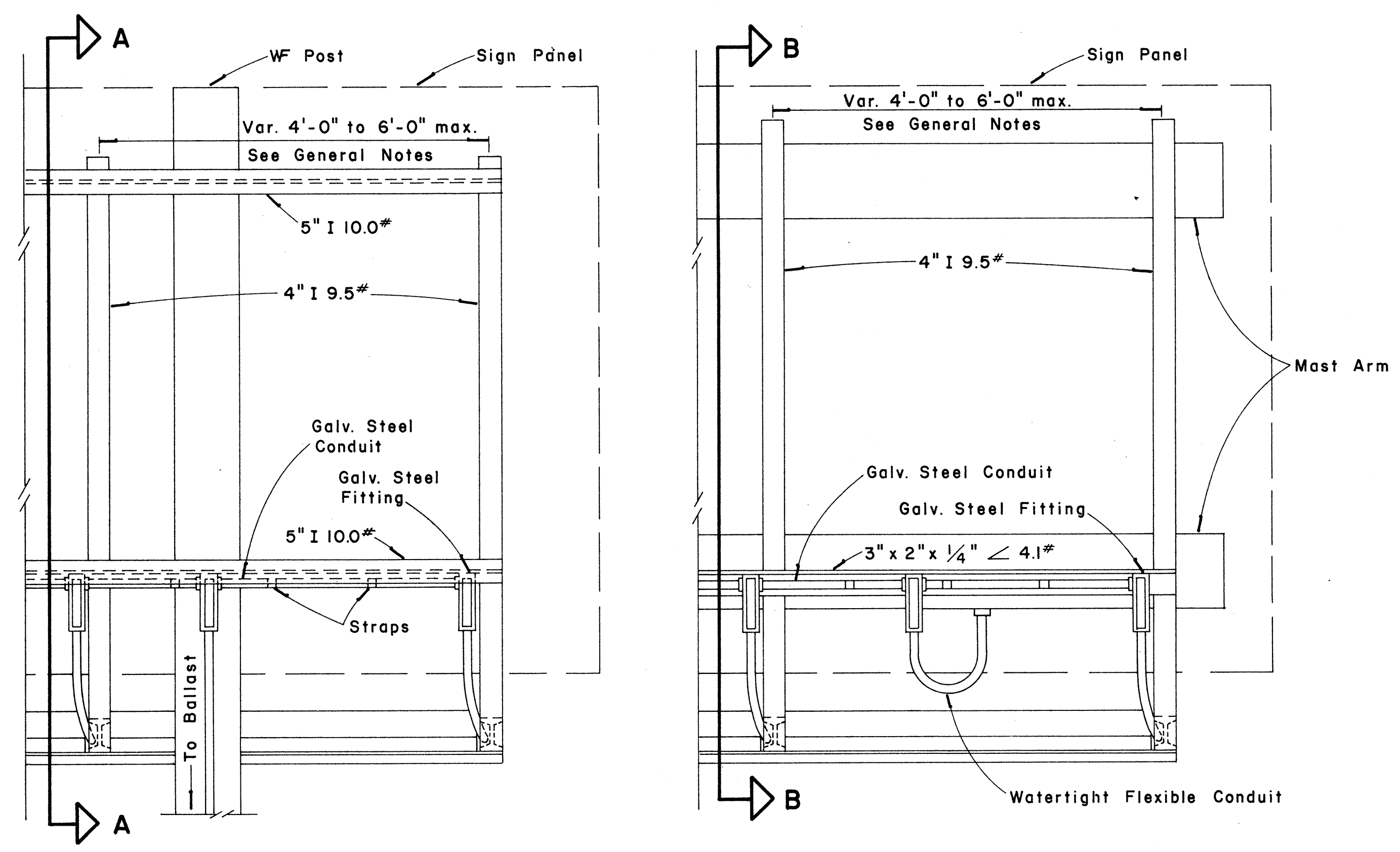
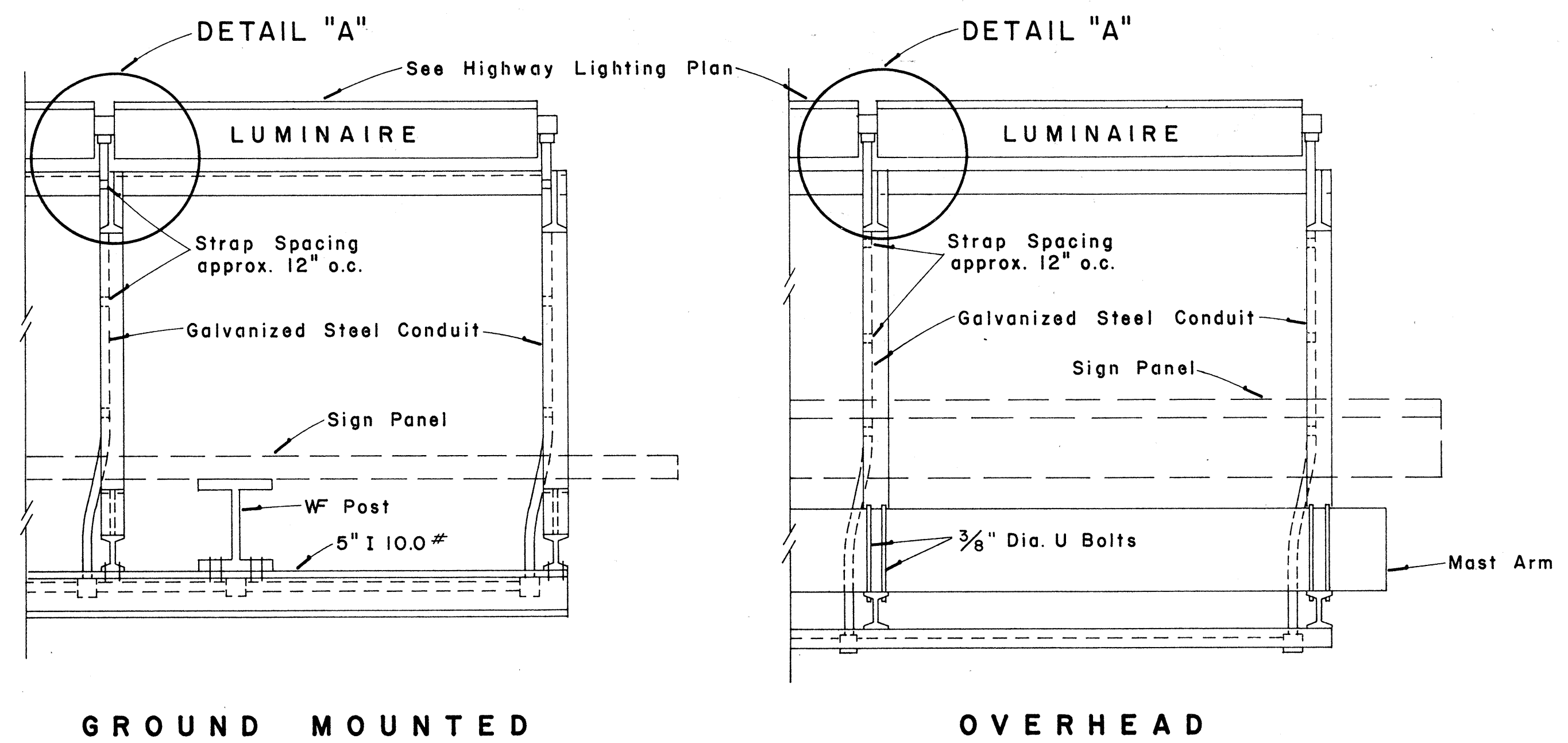


DETAIL "B"

Scale: 3" = 1'-0"

TOP VIEW LUMINAIRE MOUNTING

Scale: 1" = 1'-0"

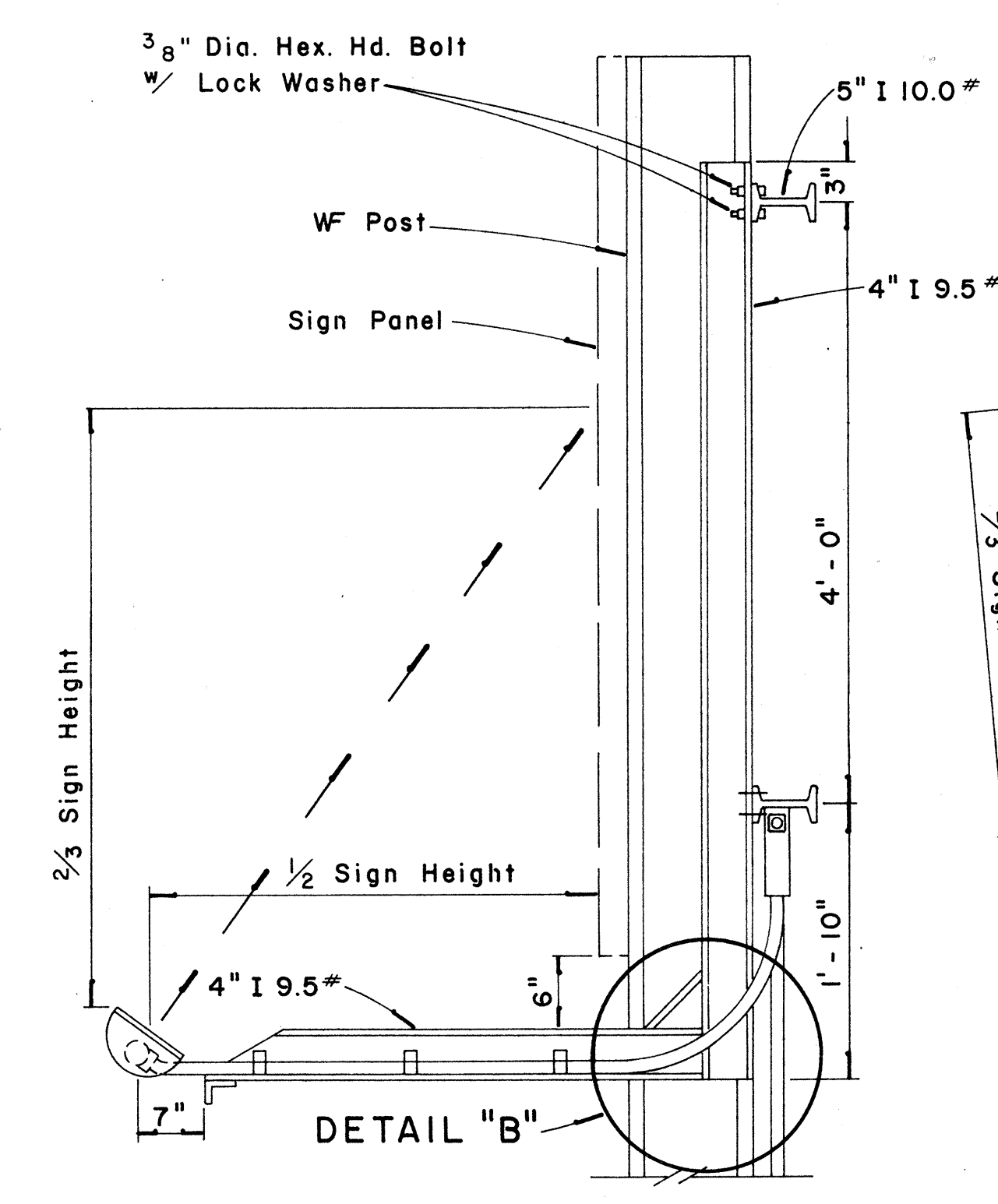


REAR VIEW LUMINAIRE MOUNTING

Scale: 1" = 1'-0"

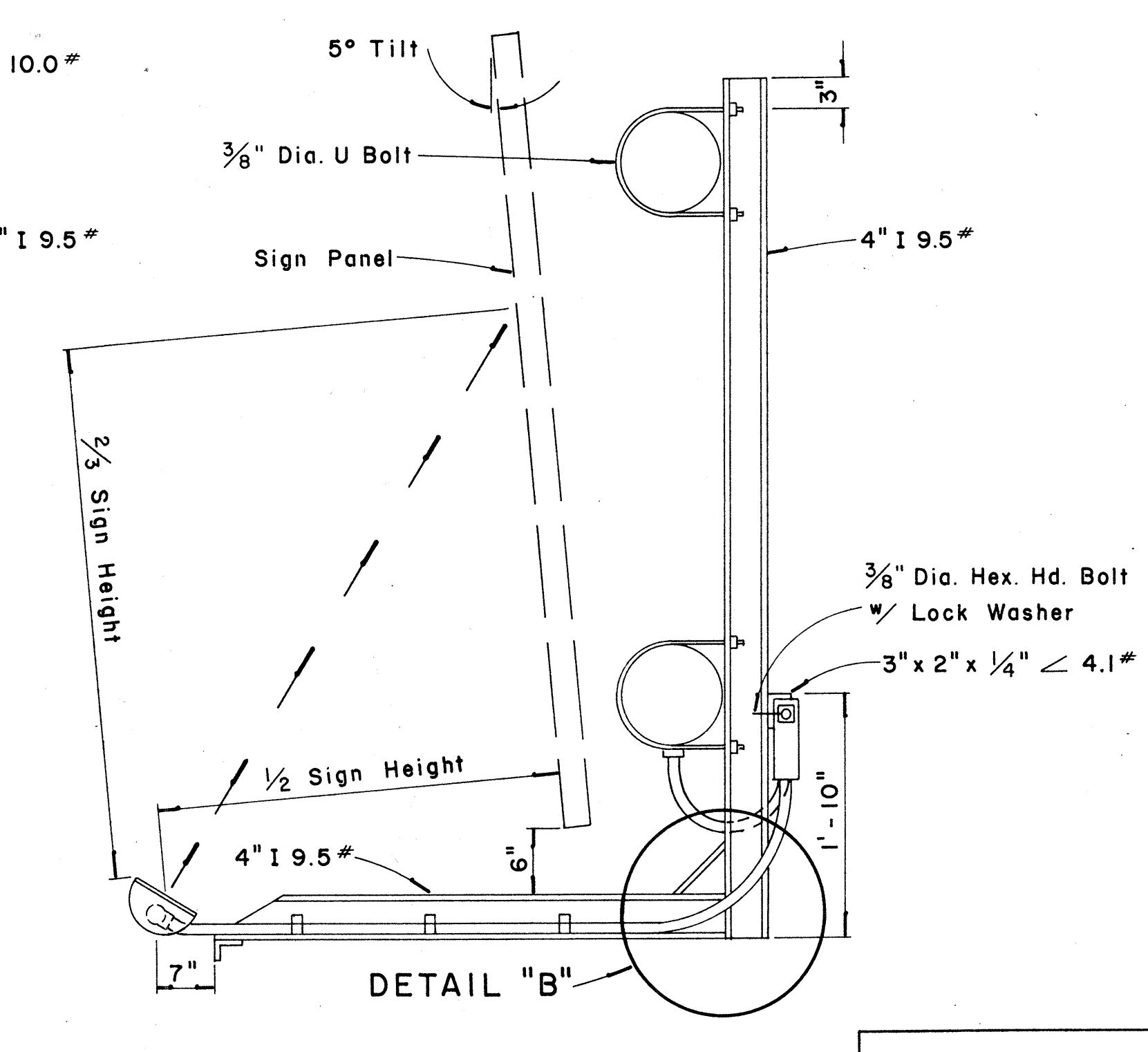
SECTION "A-A"

Scale: 1" = 1'-0"



SECTION "B-B"

Scale: 1" = 1'-0"



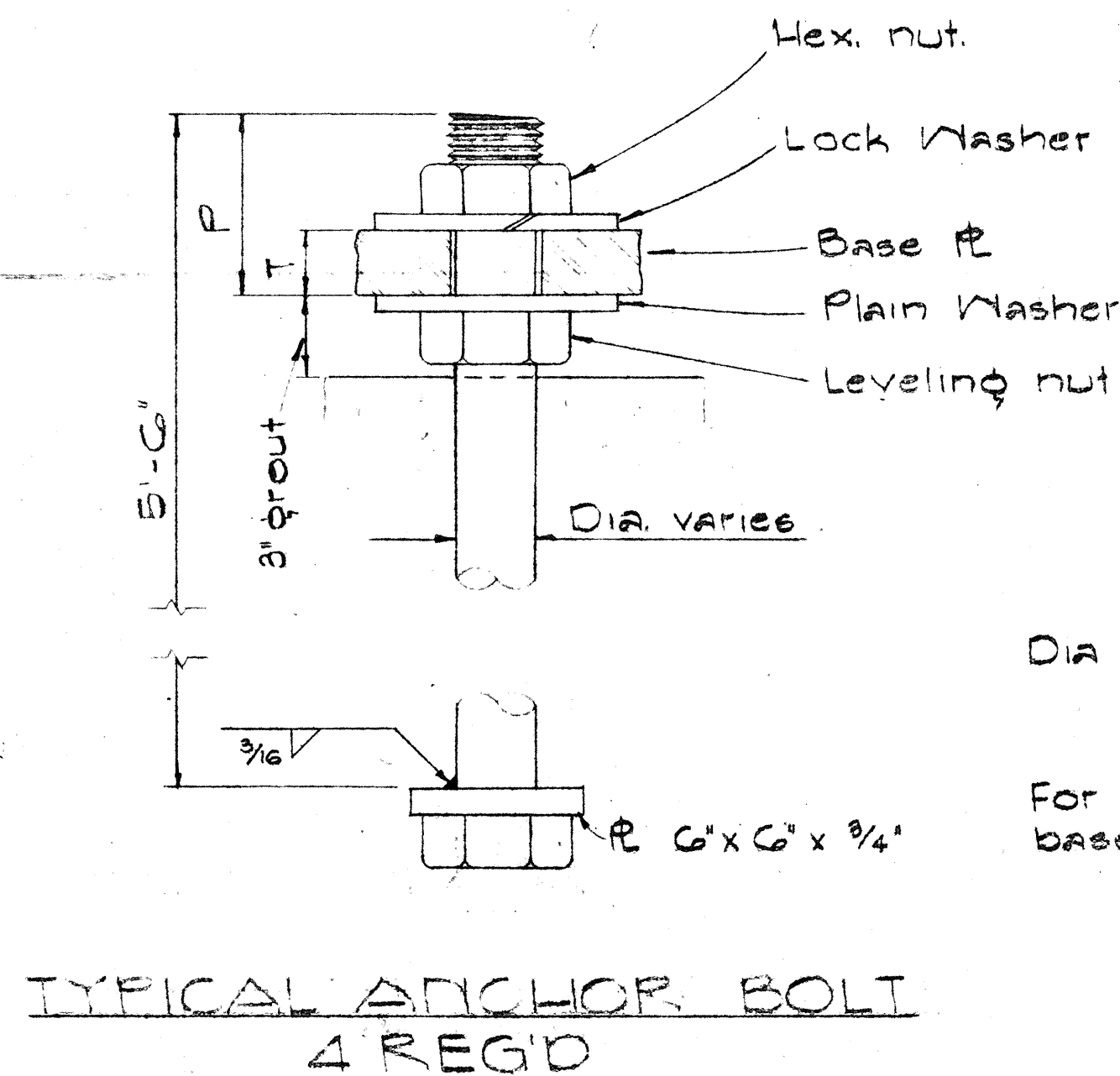
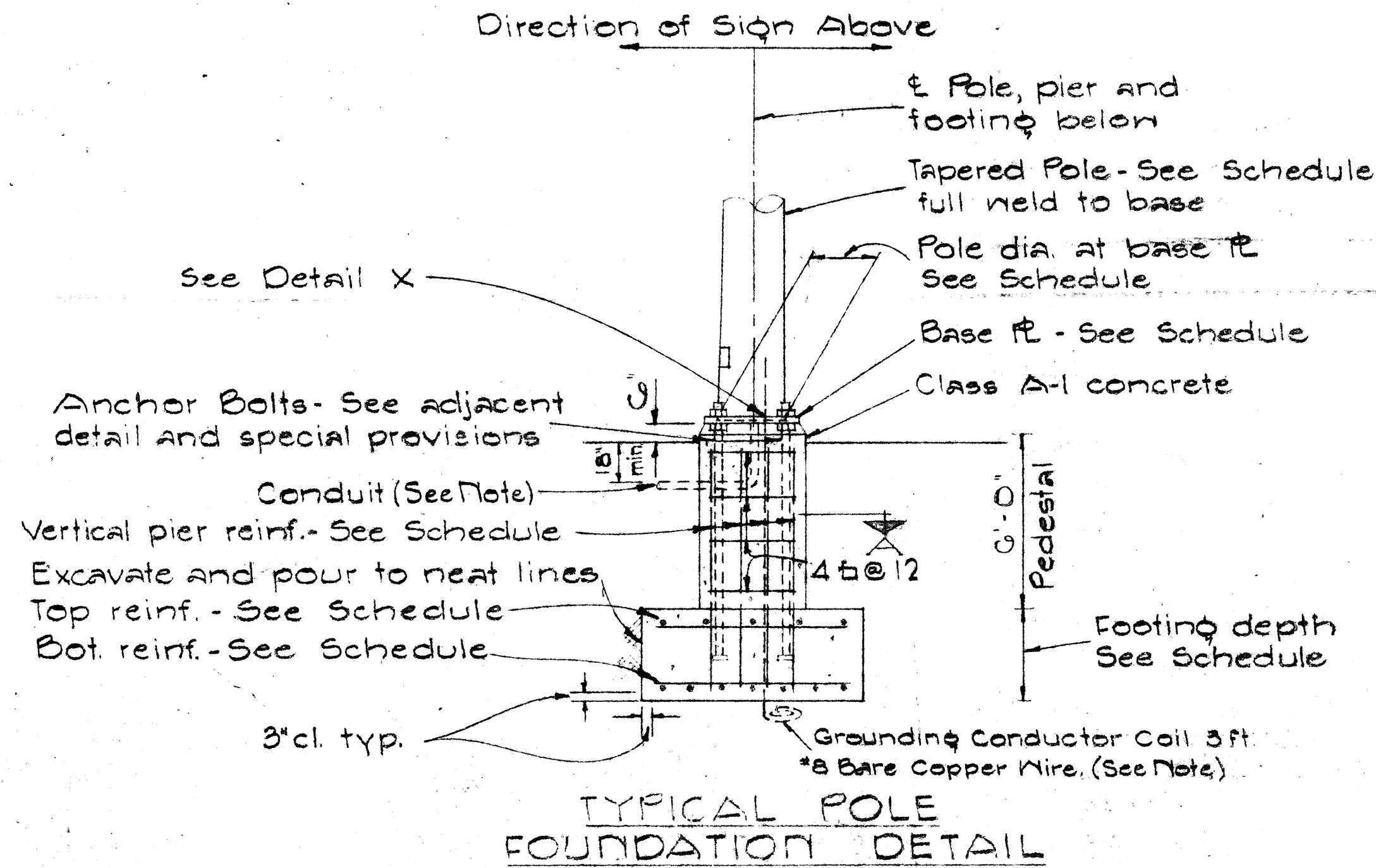
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGNS LUMINAIRE MOUNTINGS

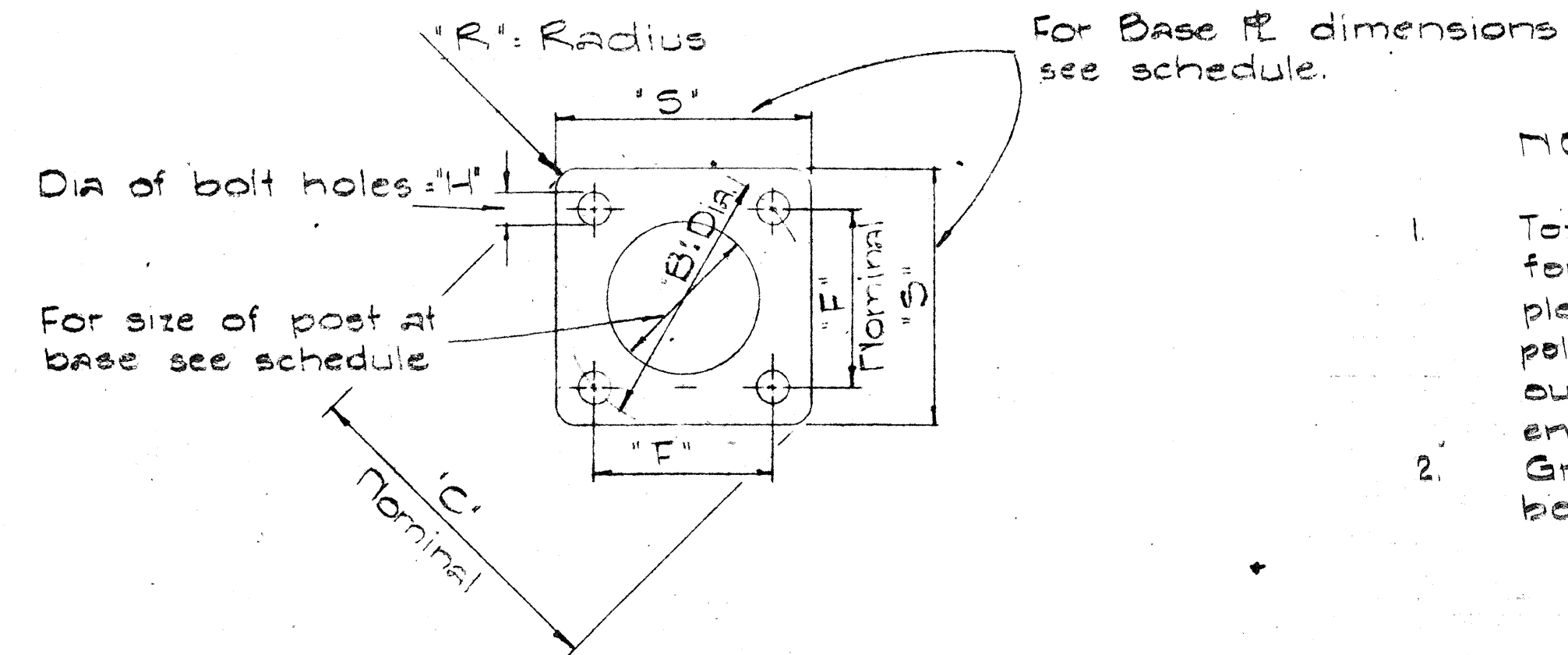
Scale: As Shown

SHEET No. 10 OF 20 SHEETS

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

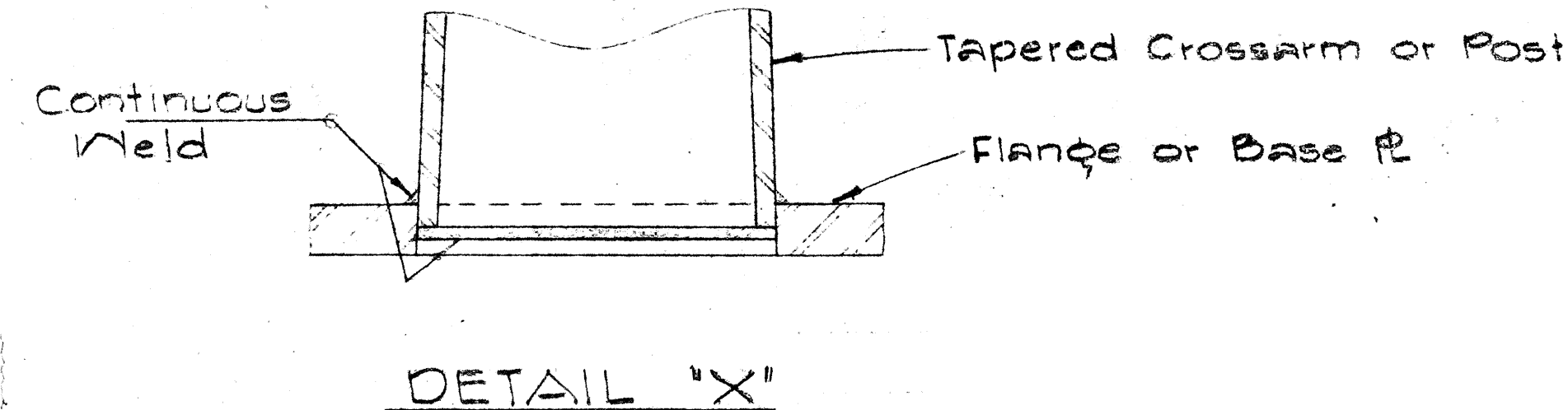
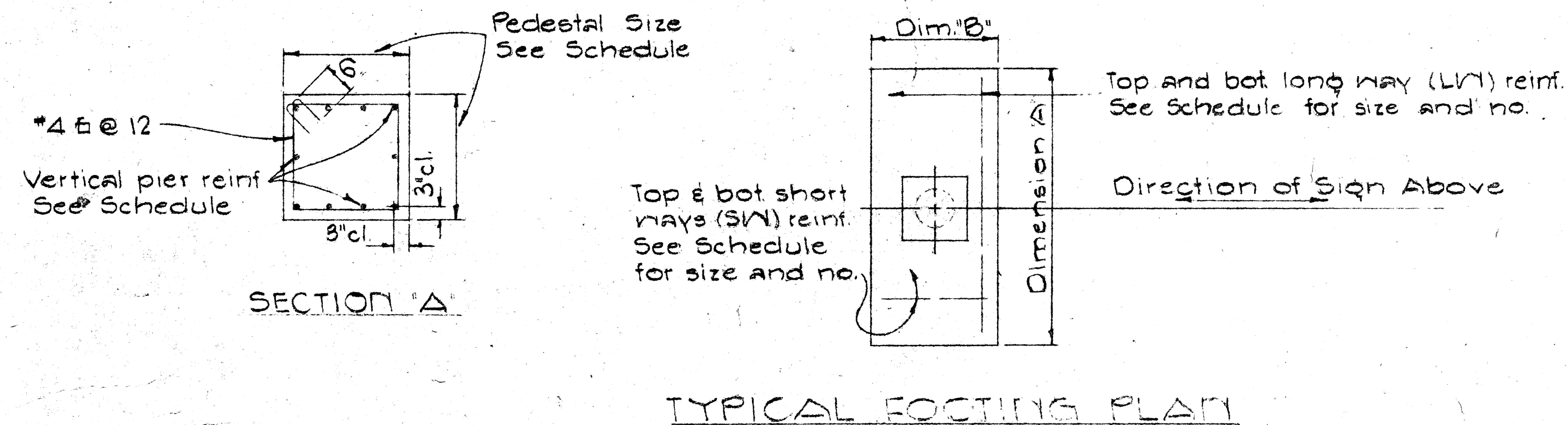


BASE PLATE SCHEDULE										
Gage No.	Post Dia.	B	C	F	H	P	R	S	T	Bolt Dia.
7	11	15	19 1/8	10 5/8	1 3/4	3 1/2	3 1/2	15 5/8	1 1/2	1 1/2
8	15	22	28 5/8	15 1/2	2 3/8	5	4 5/8	23	2	2
7-7	16	23 1/2	30 1/2	16 5/8	2 5/8	6	5	24 1/2	2 1/2	2 1/4
3-3	18	25 1/2	33	18	3 3/8	7	5 1/2	26 1/2	3	3
3	18	25 1/2	33	18	2 3/8	5	5 1/2	26 1/2	2	2



NOTE:

- Total number of conduits into pole foundation as indicated on lighting plans. Conduits shall slope away from pole foundation. Conduit shall stub out 6'-0" min. for direct burial entry.
- Grounding conductor shall be bonded to sign support.



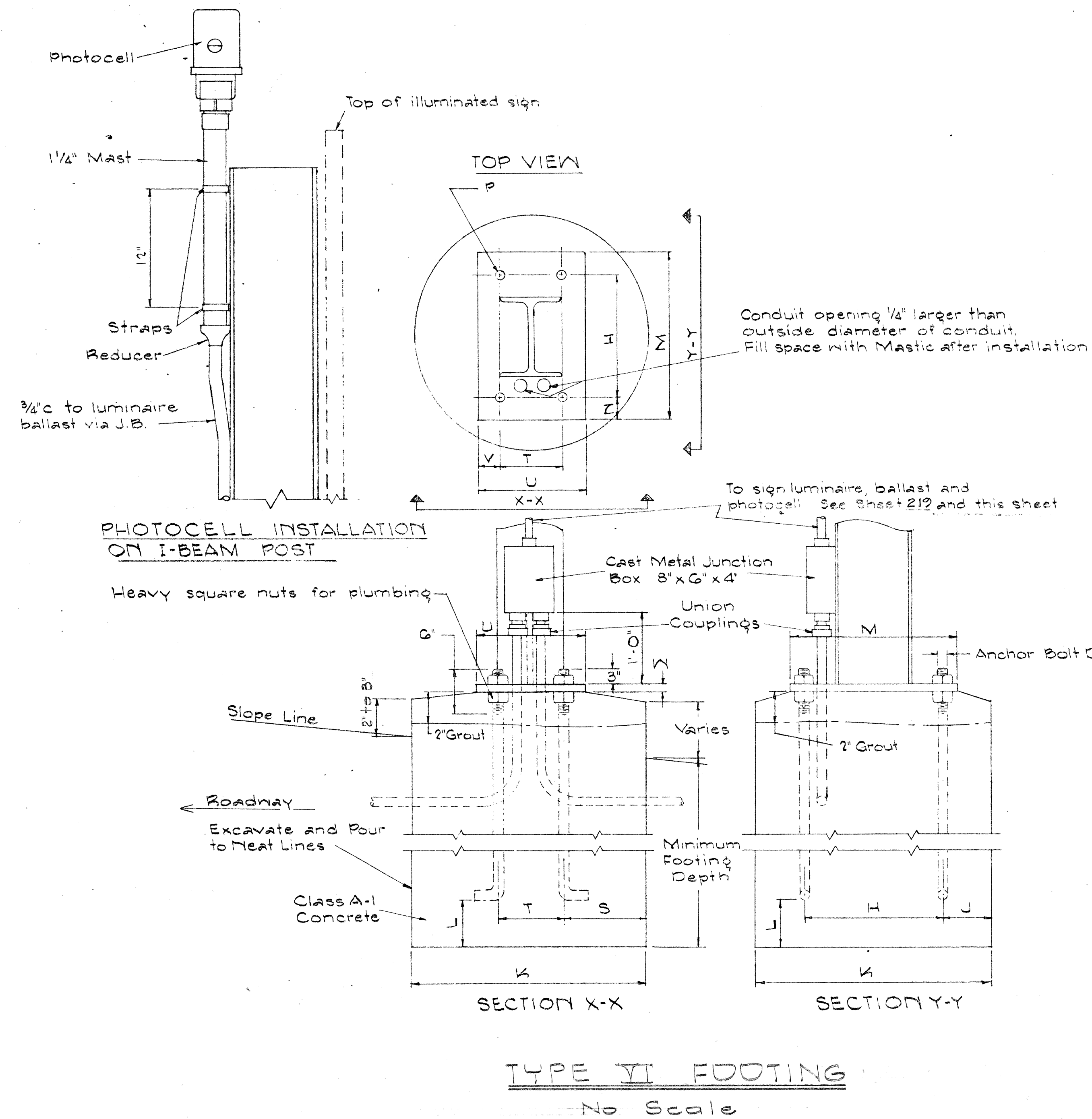
FOUNDATION SCHEDULE									
Type	Dimension		Depth	Bot. Reinf.		Top Reinf.		Pedestal	
	A	B		L.W.	S.W.	L.W.	S.W.	Size	Vert. Reinf.
I	7'-0"	3'-0"	2'-0"	3-#4	8-#4	4-#12 Each Way	Do.	1'-11"	10-#6
II	9'-0"	4'-0"	2'-0"	6-#6	10-#4	Do.	Do.	2'-0"	10-#7
III	10'-0"	5'-0"	2'-0"	5-#8	11-#4	Do.	Do.	2'-0"	10-#8
IV	12'-0"	6'-0"	2'-0"	7-#9	13-#4	Do.	Do.	2'-0"	10-#10
V	14'-0"	7'-0"	2'-0"	8-#11	15-#4	Do.	Do.	2'-0"	10-#11

TYPE D — TWO TUBE TRUSS — SPAN									
Sign No.	Station	Cross Beams	Center Section "B"	Post Dia.		Base Plate	Footing		
				Left	Right		Type	Left	Right
E-1	#143+25	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing
E-2	#143+25	3 ga. 14.25" x 27'-0"	None	2 ply 7 ga. x 10"	24 1/2" x 2 1/2" x 24 1/2"	Existing	Existing	Existing	Existing
E-3	#167+20	3 ga. 14.25" x 25'-3"	3/2 x 14.2380 00 x 10'-0"	2 ply 7 ga. x 10"	24 1/2" x 2 1/2" x 24 1/2"	I	II	8 @ 2 1/4" Dia.	
E-6	#176+30	3 ga. 14.25" x 28'-3"	3/2 x 14.2380 00 x 10'-0"	2 ply 7 ga. x 10"	24 1/2" x 2 1/2" x 24 1/2"	II	III	8 @ 2 1/4" Dia.	
E-7	Yineword 152+50	3 ga. 14.25" x 28'-0"	None	2 ply 7 ga. x 10"	24 1/2" x 2 1/2" x 24 1/2"	III	IV	8 @ 2 1/4" Dia.	
E-9	#192+45.21	3 ga. 14.25" x 25'-0"	3/2 x 14.2380 00 x 10'-0"	2 ply 1/4" x 17"	None	L: 20 1/2" x 3" x 26 1/2" R: 15 3/8" x 1 1/2" x 15 3/8"	IV	Wall	L: 4 @ 3" Dia R: 8 @ 1 1/2" Dia

GROUND MOUNTED — EXPRESSWAY & DESTINATION SIGNS									
Sign No.	Station	Steel Members		Base Plate	Footing		Type	Anchor Bolts	
		Left	Right		Type	Anchor Bolts			
D-1	#205+50	G J 8.5	10' x 1' x 17 1/4"	II	8 @ 1 1/8" Dia.				
D-2	#28+87	8 J 10	10' x 1' x 17 1/4"	II	8 @ 1 1/8" Dia.				

TYPE C — DOUBLE MASTARM — SINGLE POST — CANTILEVER									
Sign No.	Station	Arm Dimensions	Post Dim.	Base Plate	Footing		Type	Anchor Bolts	
					Type	Anchor Bolts			
E-5	#173+55	NONE	NONE	26 1/2" x 2" x 26 1/2"	Special	4 @ 2" Dia x 48"			
E-8	#183+25	3 ga. 22" x 19'-0"	3 ga. 18" x 23'-0"	26 1/2" x 2" x 26 1/2"	III	4 @ 2" Dia.			

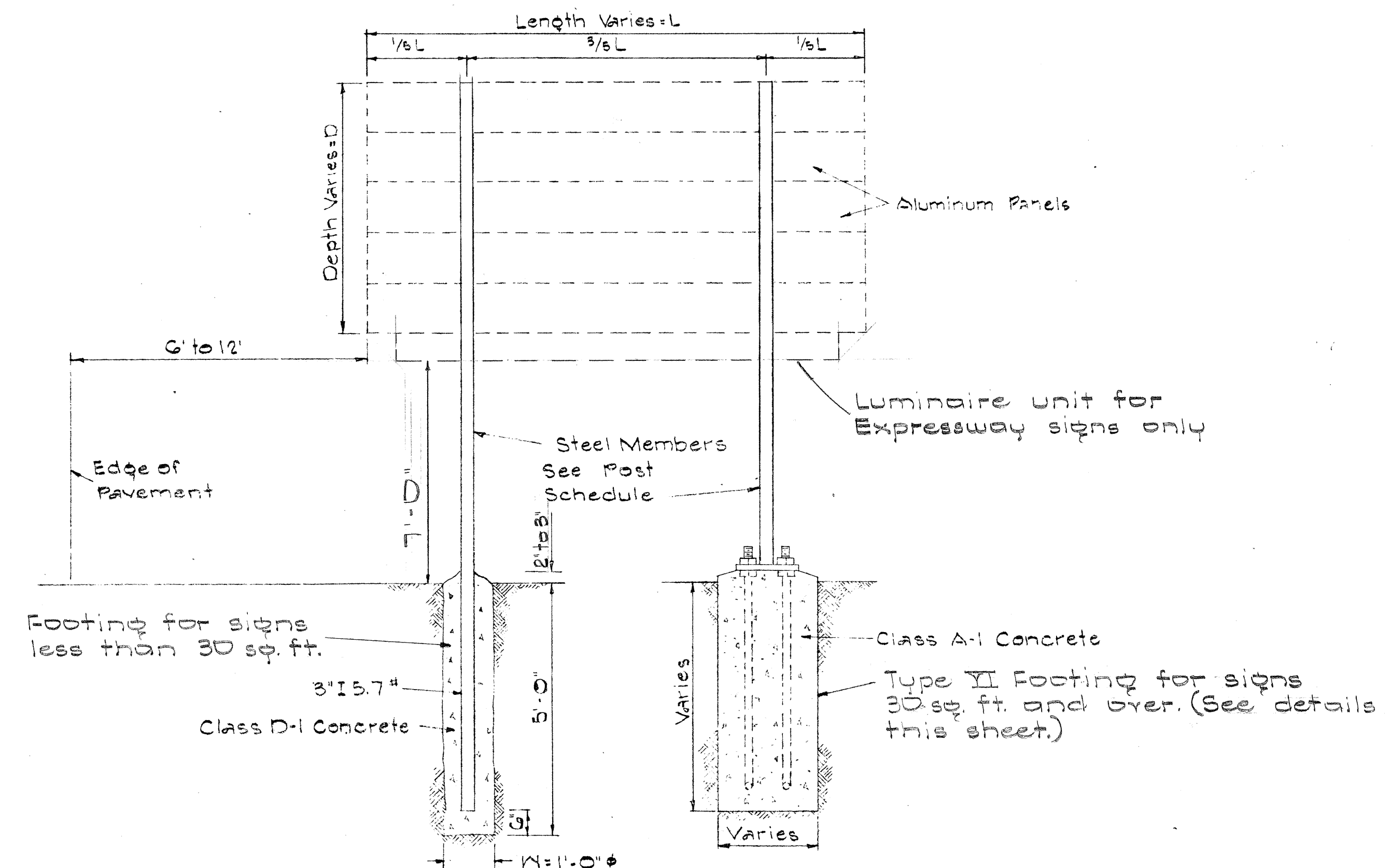
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DESTINATION & EXPRESSWAY SIGNS
DETAILS & SCHEDULES
INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Pele St. to Victoria St
F.A.I. Proj. No. I-HI-1(31), Unit I
Not to Scale Date: April, 1966



NOTE:
Conduit and ballast details shown are for ground mounted Expressway signs only.

SUPPORT STRUCTURE DATA FOR GROUND MOUNTED SIGNS																				
POST SIZE	MAXIMUM SIGN AREA	POST HGT. TOP OF FOUND. TO CENTER OF SIGN *	DIMENSIONS SEC. Y-Y							DIMENSIONS SEC. X-X							ANCHOR BOLT DIA.	MIN. FOOTING DEPTH (FEET)		TYPE OF WELD TO BASE PLATE
			H	J	K	L	M	N	O	P	S	T	U	V	W	CUT		FILL **		
GJ 8.5	50 sq.ft.	9'	14"	5"	24"	6"	17 1/4"	1 1/2"	1 1/2"	24"	1 1/2"	9"	6"	10"	2"	1"	1/8"	4 1/2'	5'	3/8" ↘
8X24	120 sq.ft.	13'																		↓
BJ10	70 sq.ft.	10'																		↓

NOTE:
For signs with panel areas of less than 30 sq. ft. but greater than 16 sq. ft. use 3" I 5.7" steel I beam.
* For moment calculations only. Post to be from top of foundation to top of sign.
** For fills with side slopes flatter than 4:1, deduct 2 feet.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION & EXPRESSWAY SIGNS

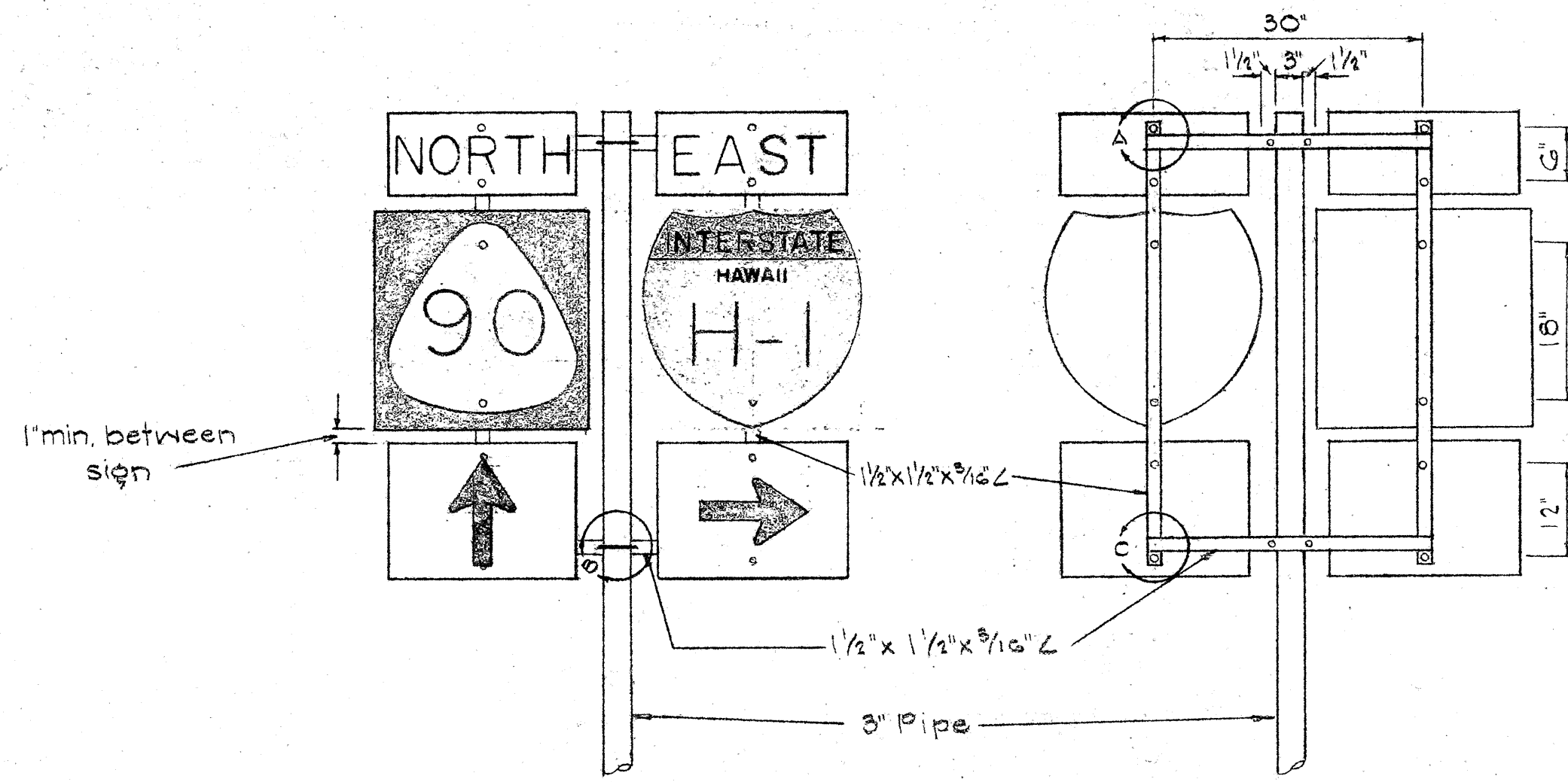
TYPE VI FOOTING

INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Pele St. to Victoria St.
F. A. I. Proj. No. I-HI-1(31), Unit I

Not to Scale April 1966

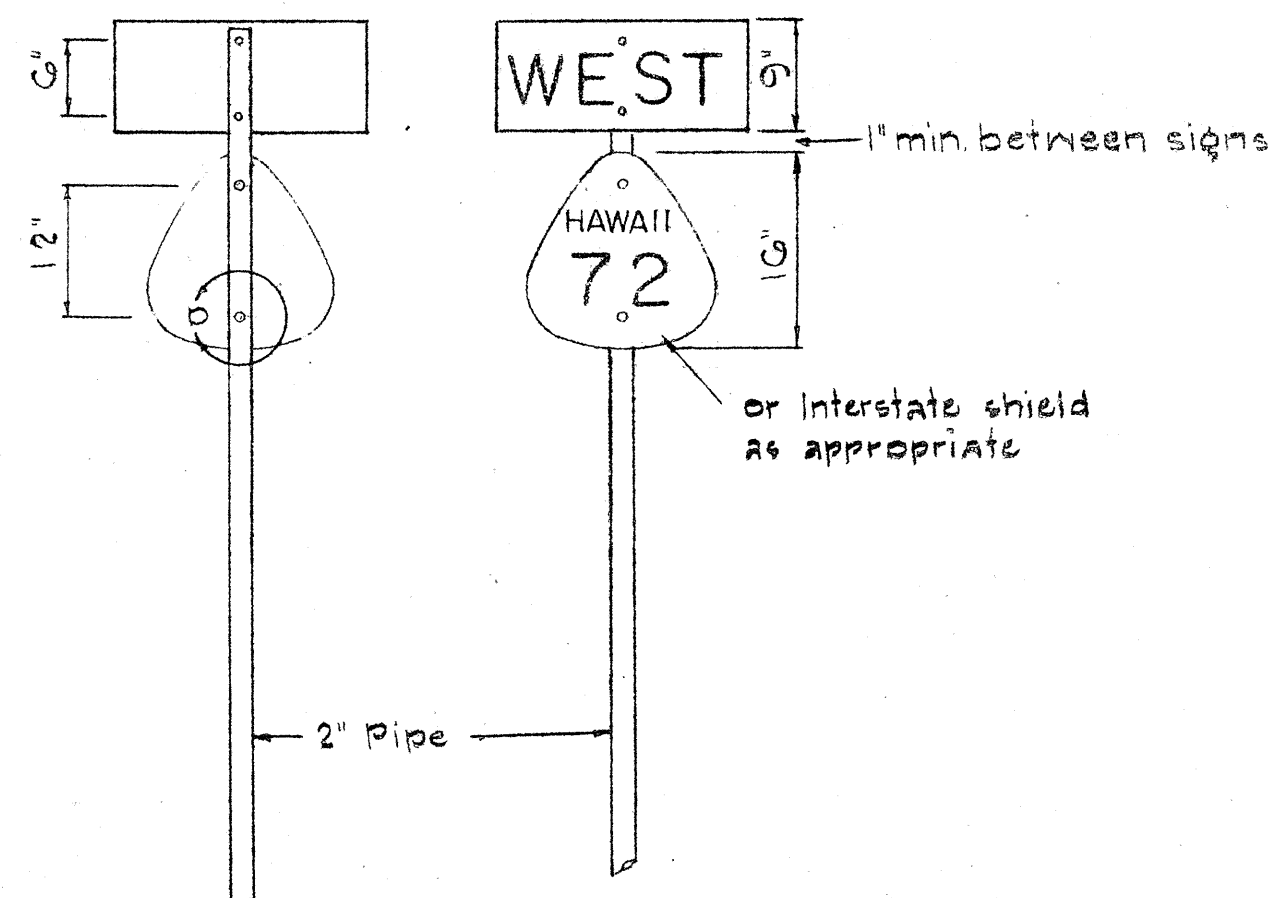
SHEET No. 18 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-11-1100	1967	215	292



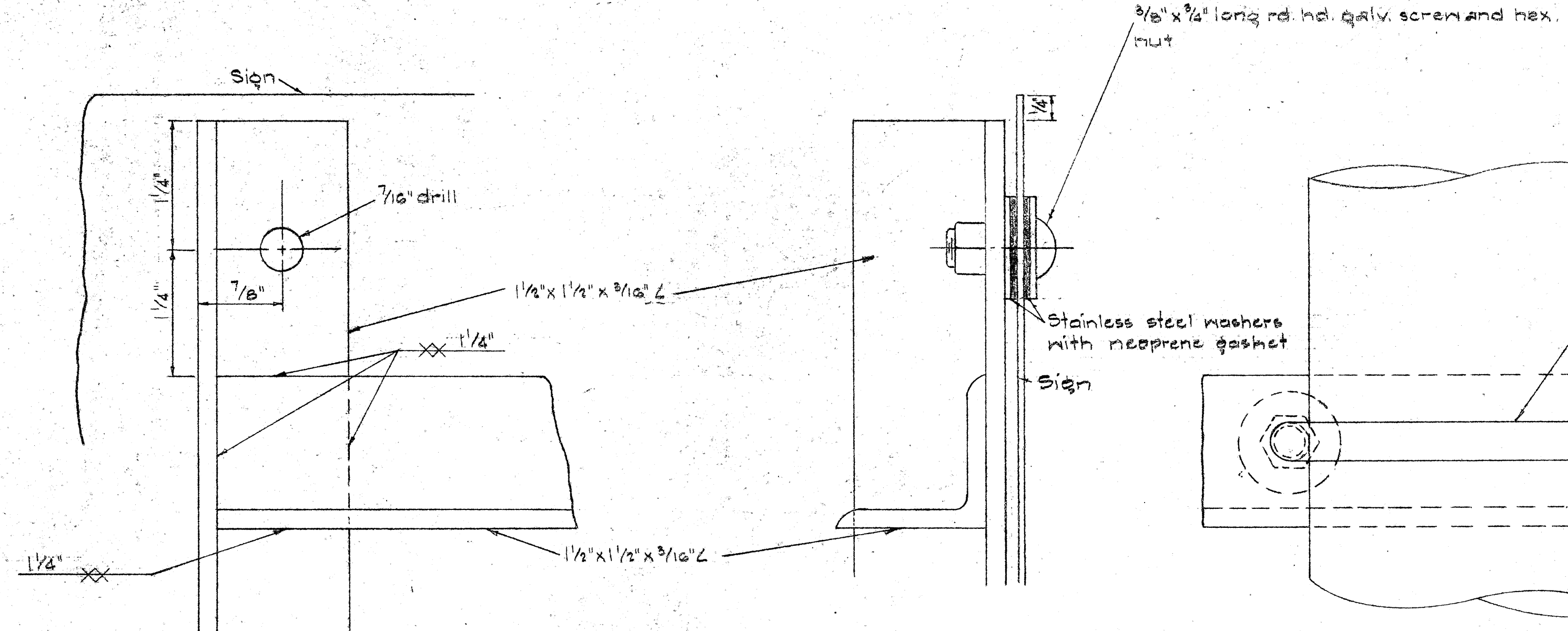
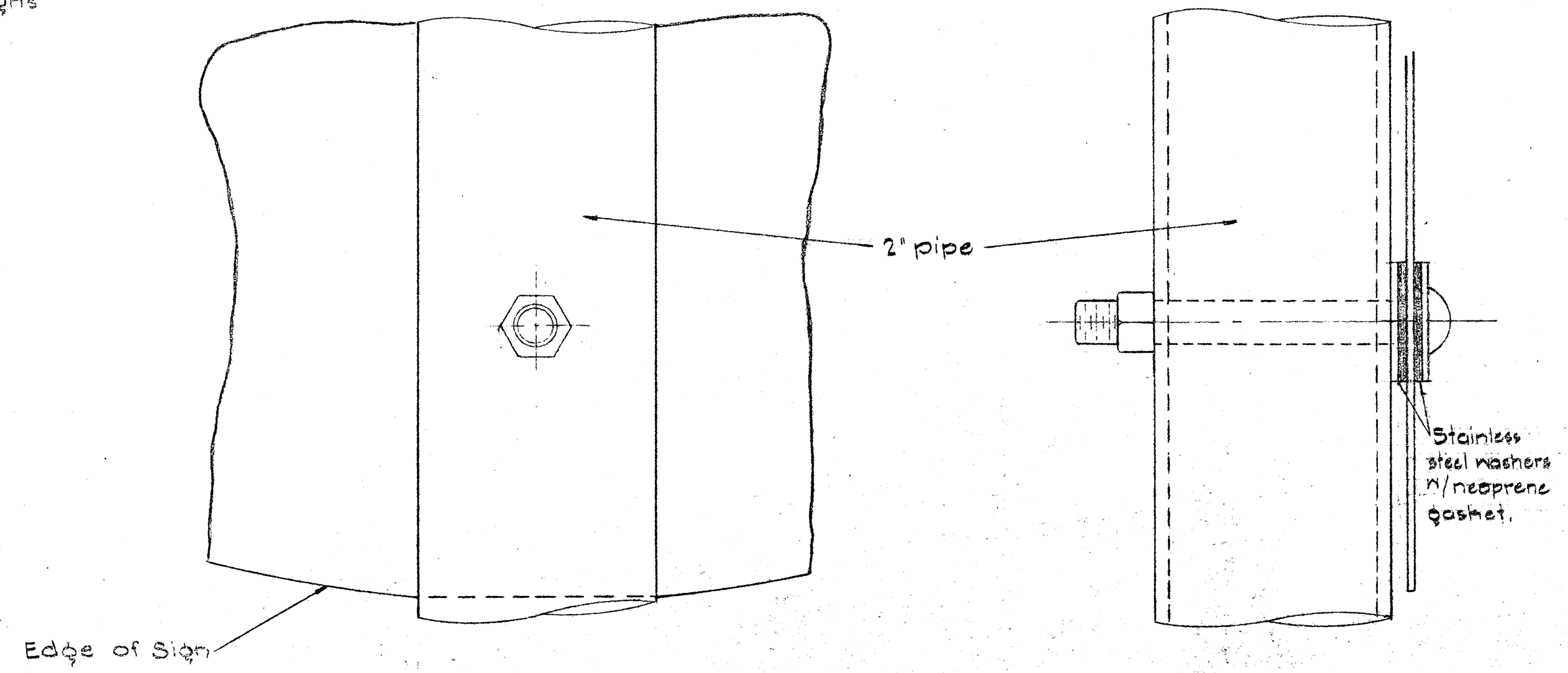
TYPE "B" ASSEMBLY
NOT TO SCALE

NOTE:
Minimum clearance between signs shall be 1 inch. (Larger clearances shall be in multiples of 1 inch.)

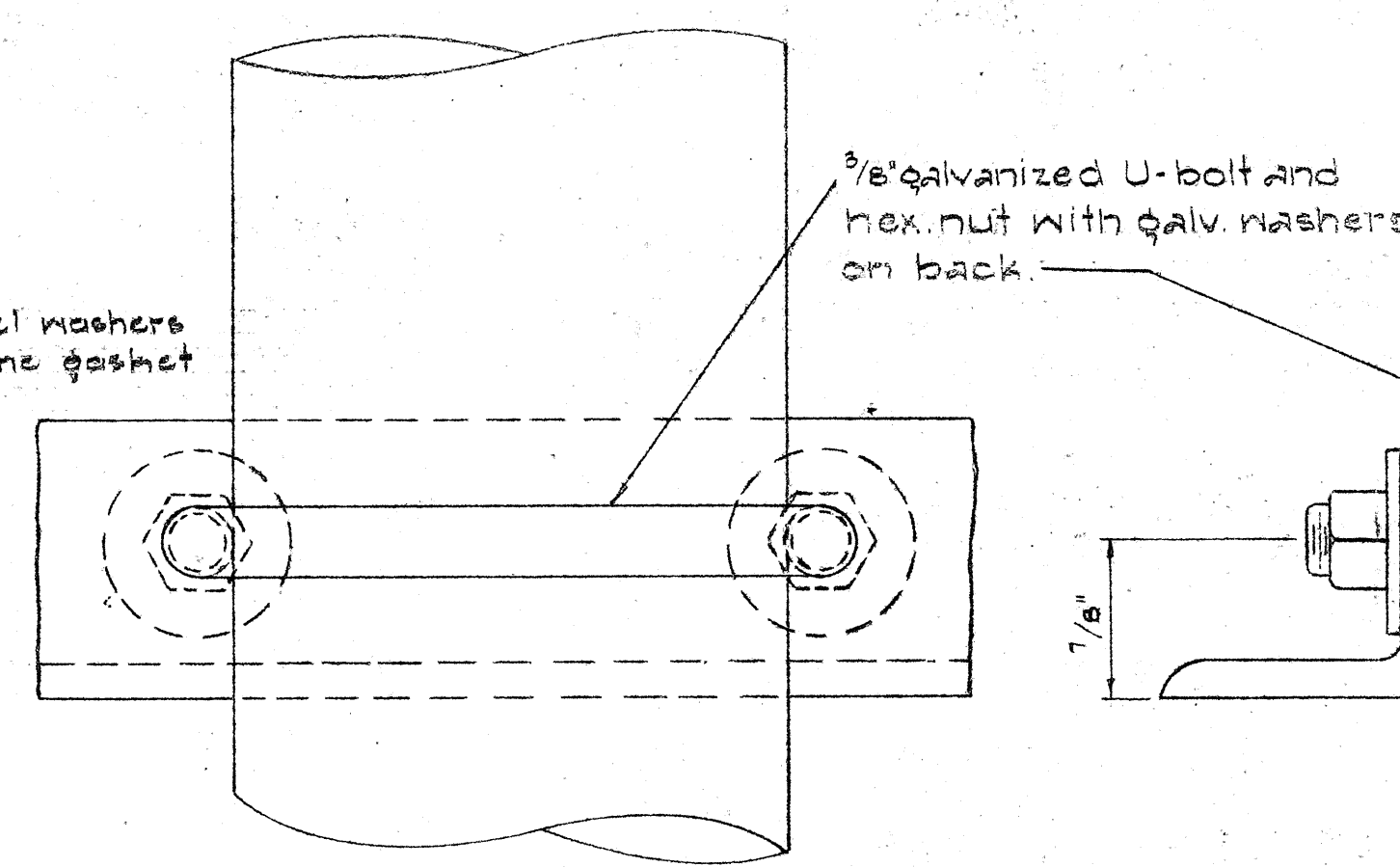


TYPE "A" ASSEMBLY
NOT TO SCALE

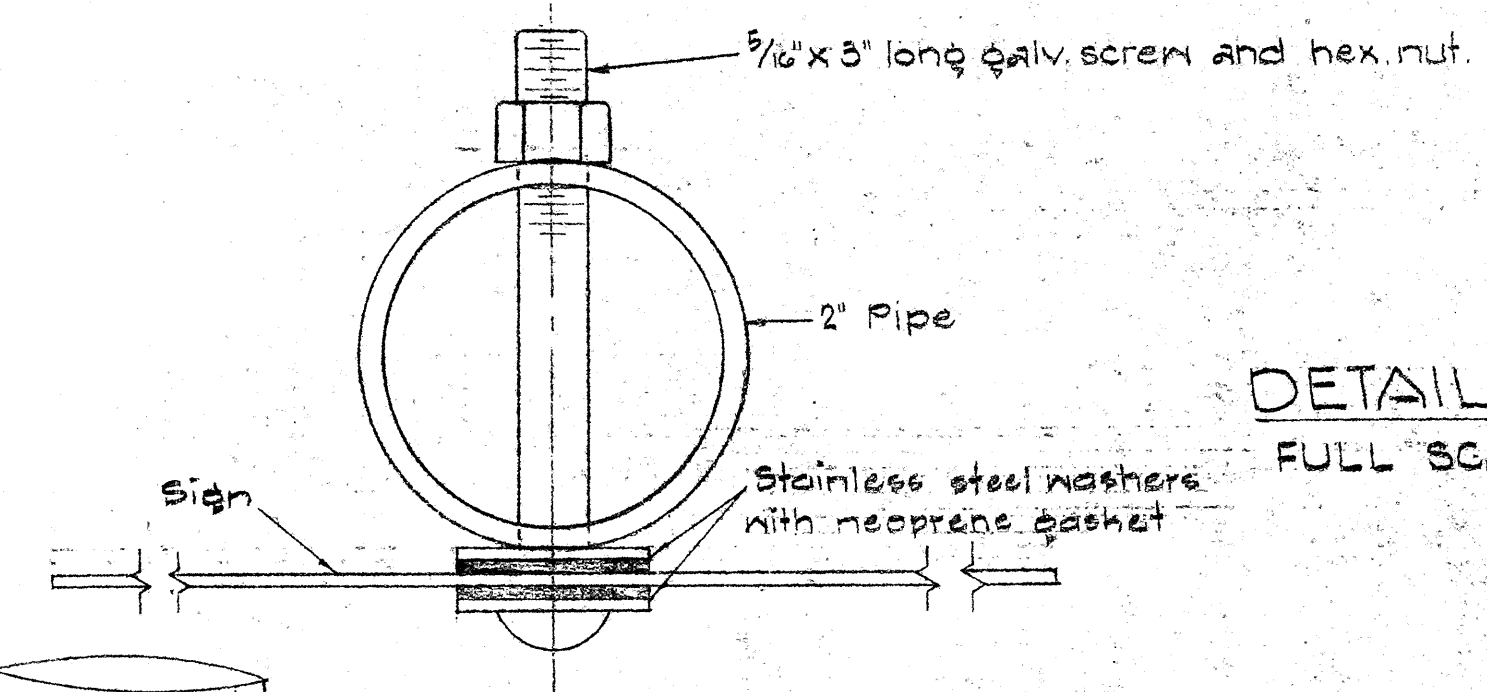
NOTE:
Use 2" pipe for Type "A" Assembly;
Use 3" pipe for Type "B" Assembly.



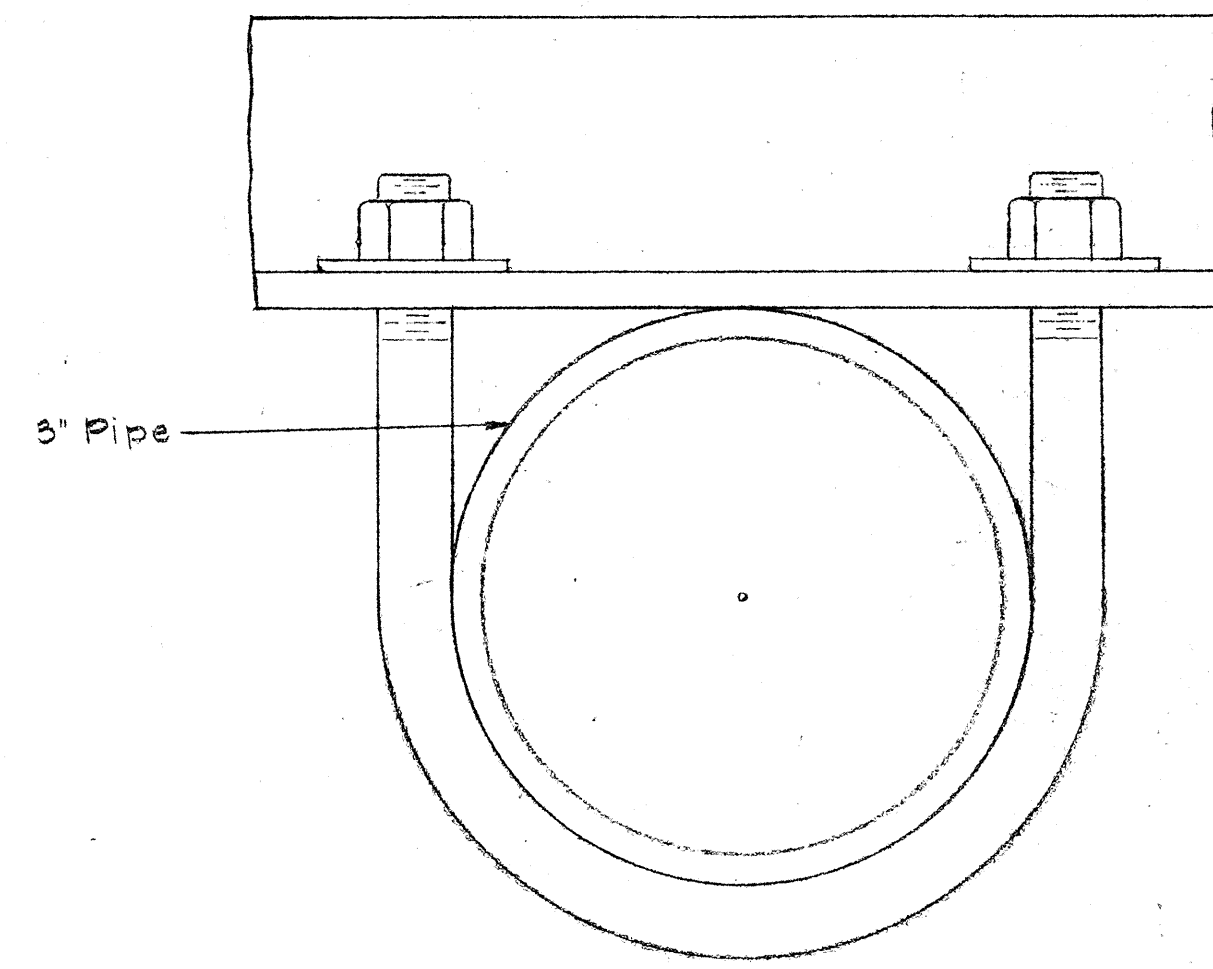
DETAIL "A"
FULL SCALE



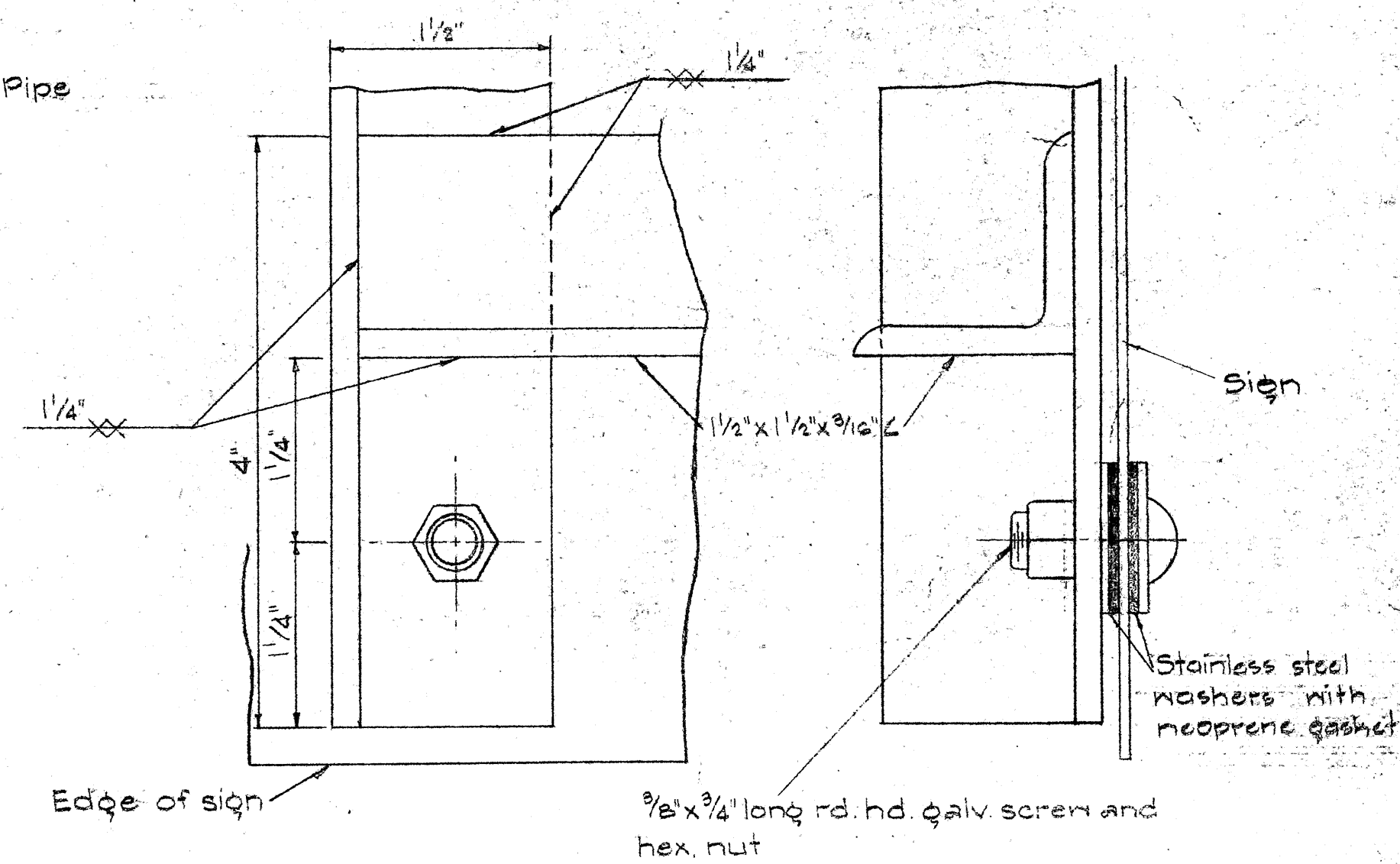
DETAIL "B"
FULL SCALE



DETAIL "D"
FULL SCALE



DETAIL "C"
FULL SCALE



NOTE:
For height and lateral location of Route Marker Assembly, see Sheet No. 227

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

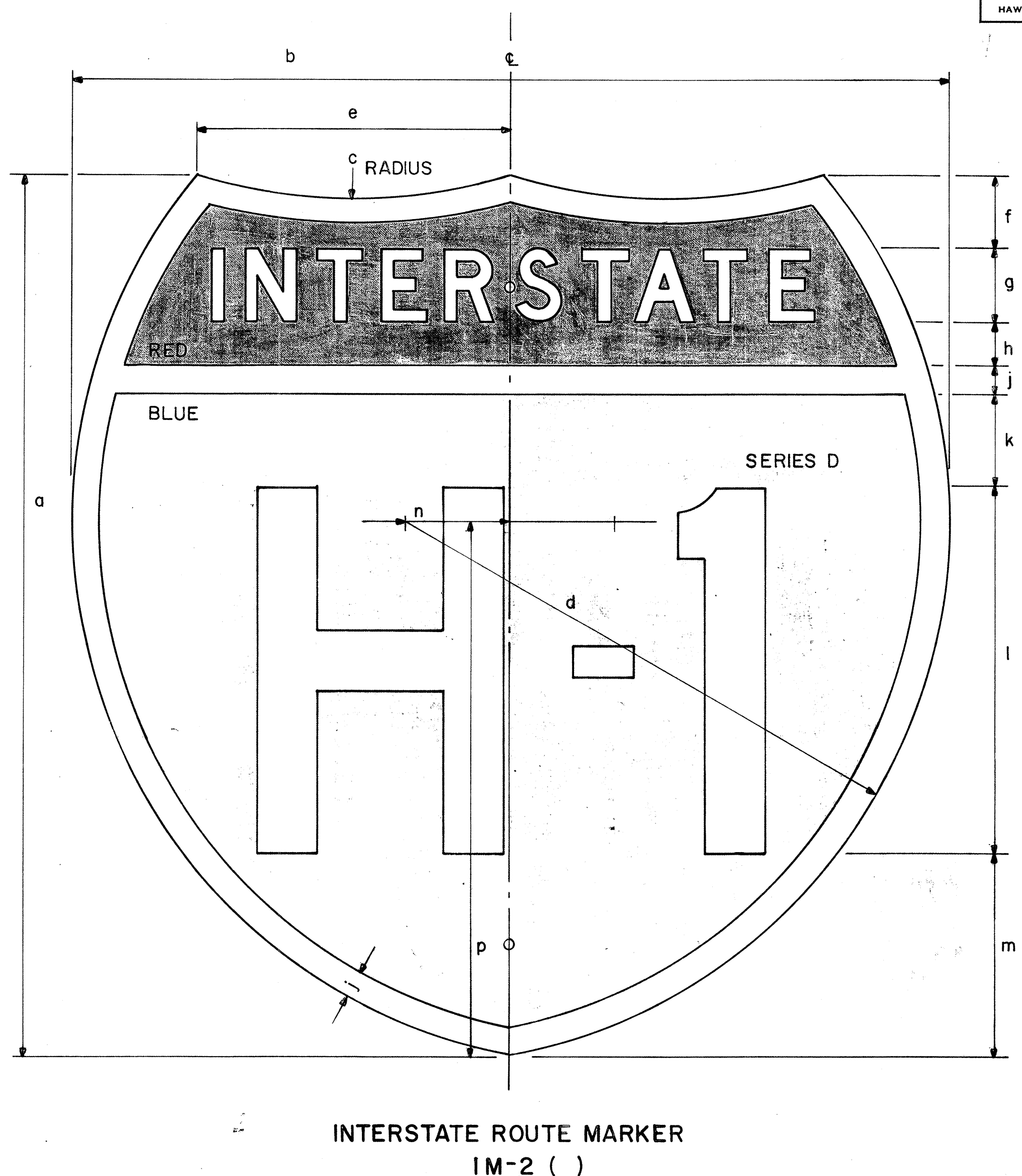
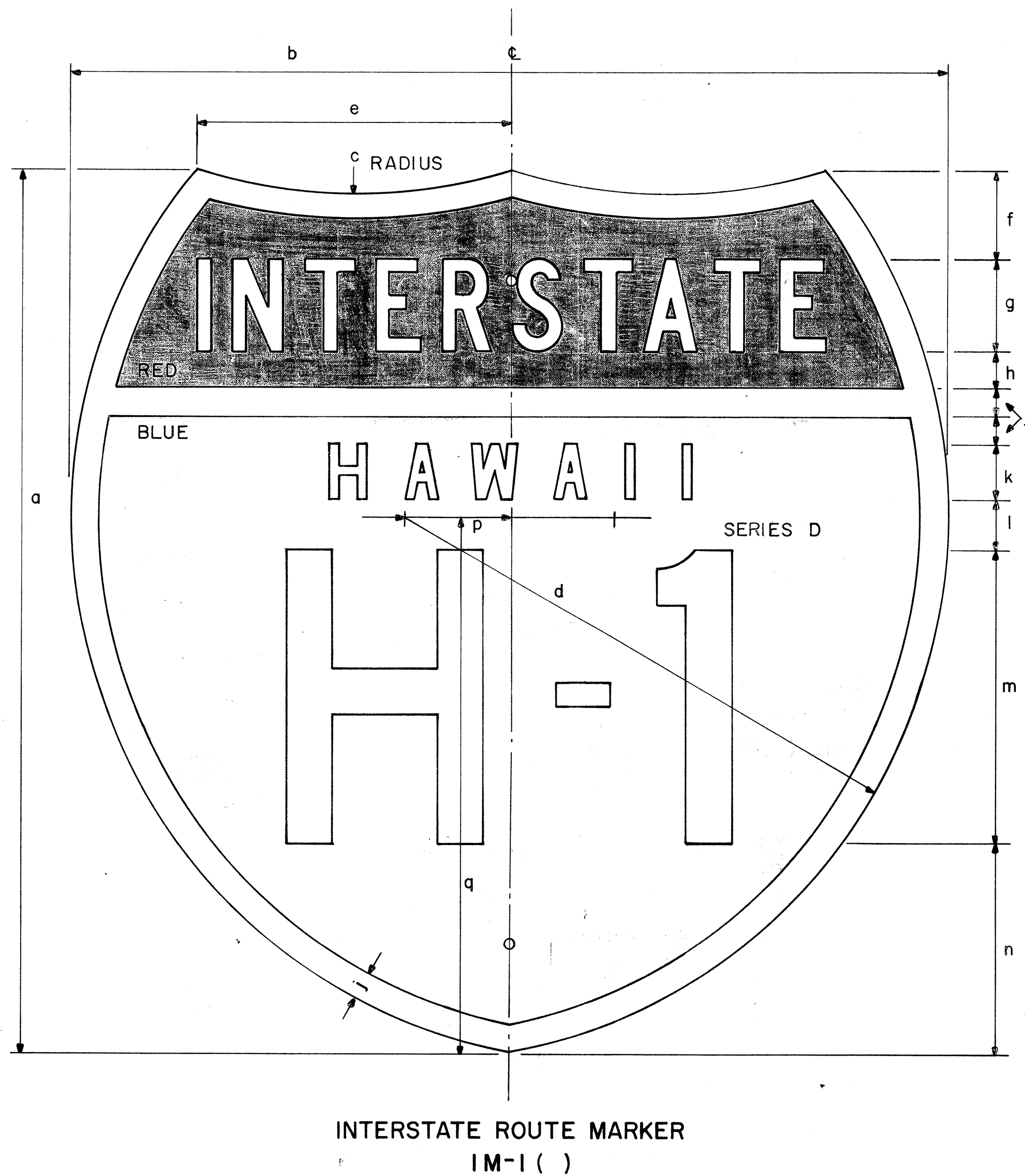
DETAILS OF
ROUTE MARKER ASSEMBLY

Scale: As Noted

SHEET No. 19 OF 26 SHEETS

215

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
NO.	



()	a	b	c	d	e	f	g	h	j	k	l	m	n	p	q
1	18	21	13 1/8	12 9/16	9 3/16	1 25/32	1 7/8 C	3/4	9/16	1 1/8 D	1 1/32	6	4 5/16	2 1/16	12 7/16
2	24	24	15	14 7/8	8 5/8	2 3/8	2 1/2 C	1	3/4	1 1/2 D	1 3/8	8	5 3/4	2 7/8	14 5/8
3	36	36	22 1/2	22 5/16	12 15/16	3 9/16	3 3/4 C	1 1/2	1 1/8	2 1/4 D	2 1/16	12	8 5/8	4 5/16	21 15/16

()	a	b	c	d	e	f	g	h	j	k	l	m	n	p
2	24	24	15	14 7/8	8 5/8	2	2 D	1 3/16	3/4	2 9/16	10	5 1/2	2 7/8	14 5/8
3	36	36	22 1/2	22 5/16	12 15/16	3 7/16	3 C	1 5/16	1 1/8	3 1/8	15	9	4 5/16	21 15/16
4	48	48	30	29 3/4	17 1/4	4 3/4	5 C	2	1 1/2	4	18	12 3/4	5 3/4	29 1/4
5	18	18	11 1/4	11 3/16	6 1/2	1 3/4	1 1/2 C	1 1/16	9/16	1 9/16	7 1/2	4 1/2	2 3/16	11

GENERAL NOTES

- The shape, color, dimensions, symbols, wording, lettering and reflectorizing 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 letters and figures shall conform to the manual "Standard Alphabets for Highway Signs," Dept. of Commerce, Bureau of Public Roads, 1952.
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have 3/8" bolt holes drilled at appropriate locations unless otherwise specified.
- The Interstate Route Marker shall be a cut-out shield, in a red, white and blue design as shown on the plans.

APPROVED:

DATE:

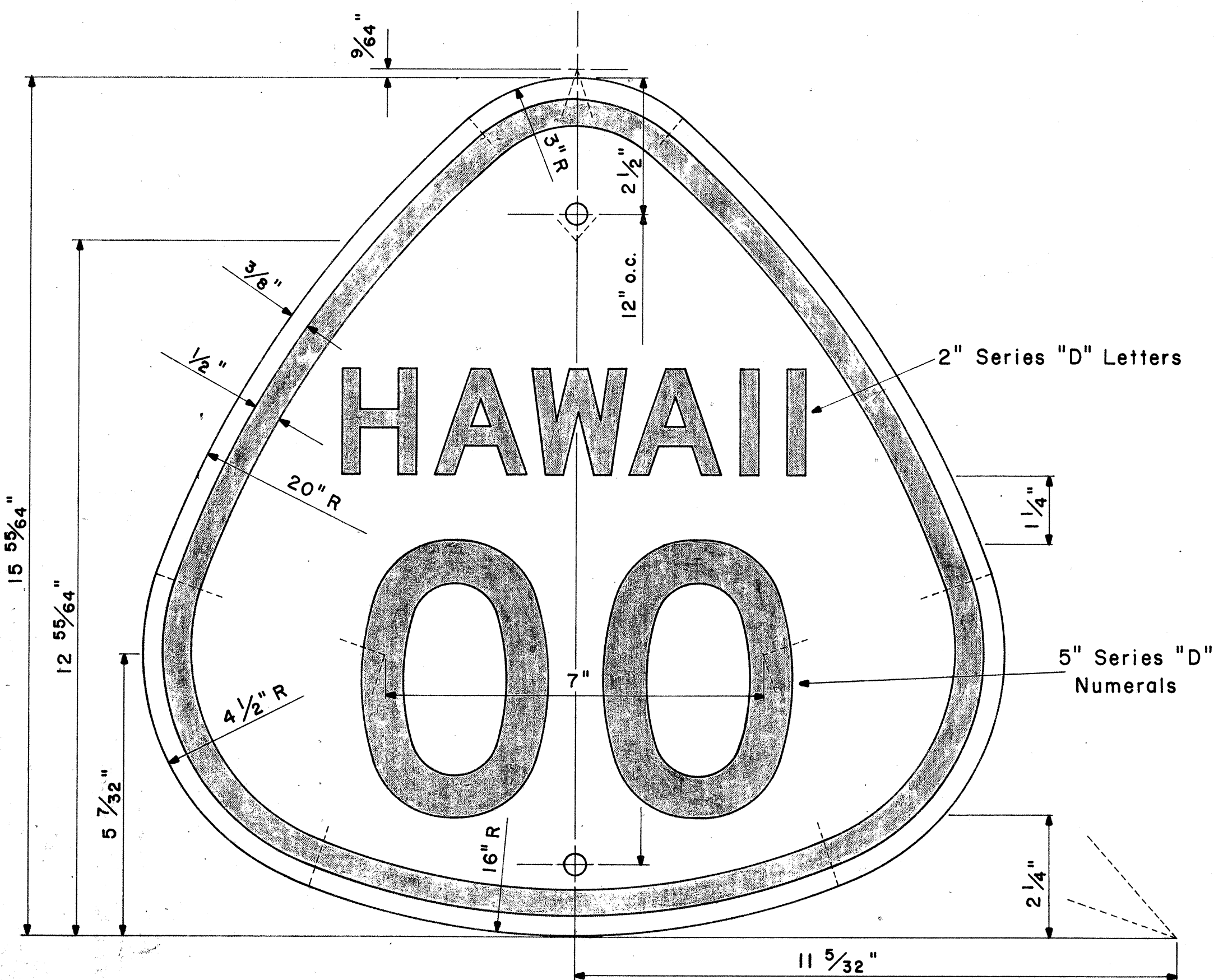
DIRECTOR OF TRANSPORTATION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
INTERSTATE ROUTE MARKERS

No Scale

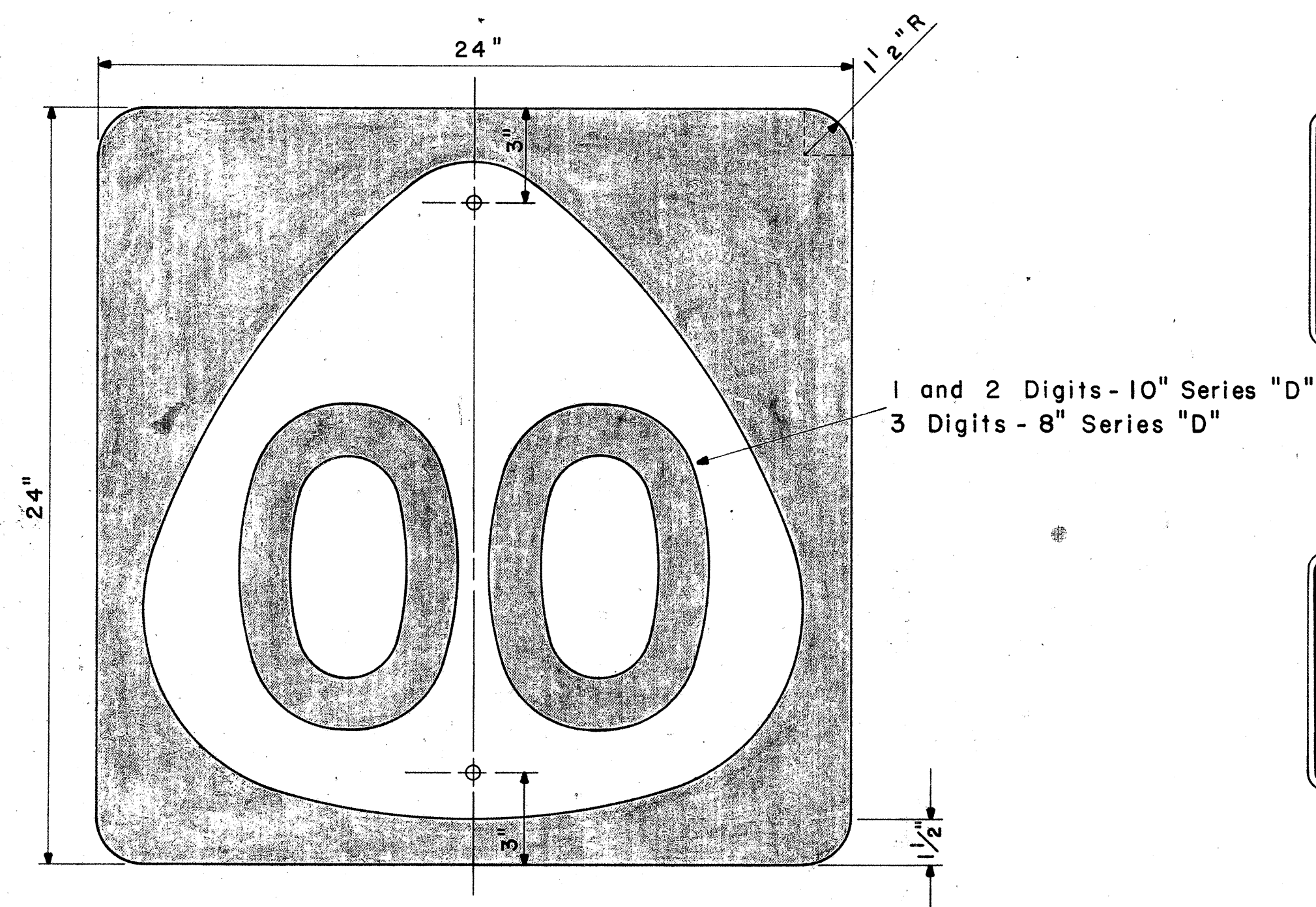
SHEET NO 20 OF 26 SHEETS

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
NO.	



STATE ROUTE MARKER
MI-3(00)

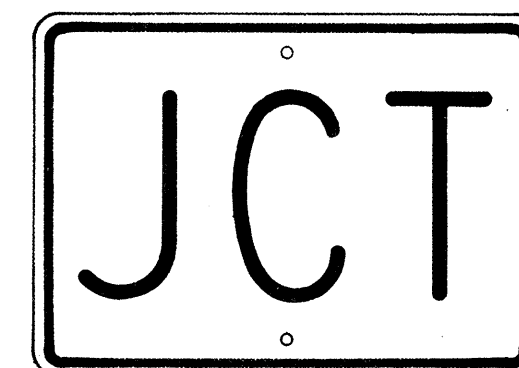
Scale: $\frac{1}{2}$ " = 1"



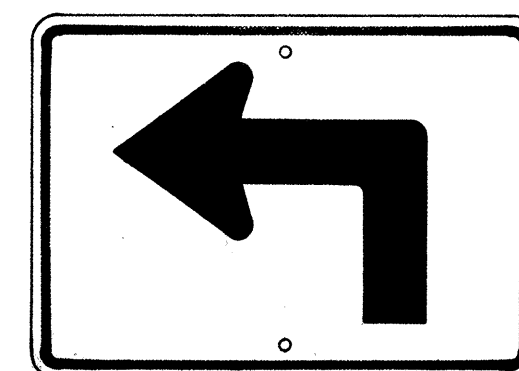
STATE ROUTE MARKER
MI-4(00)

Scale: $\frac{1}{4}$ " = 1"

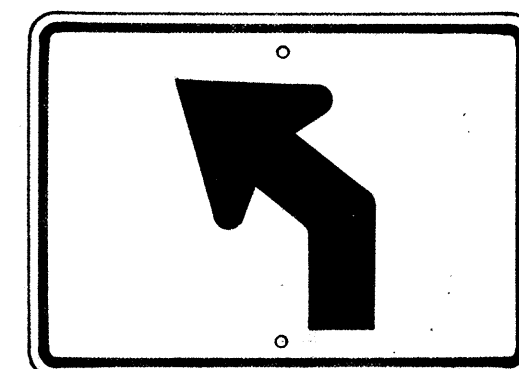
NOTE:
Multiply all dimensions of State Route Marker MI-3 by 1.3 for the dimensions of the shield for MI-4.



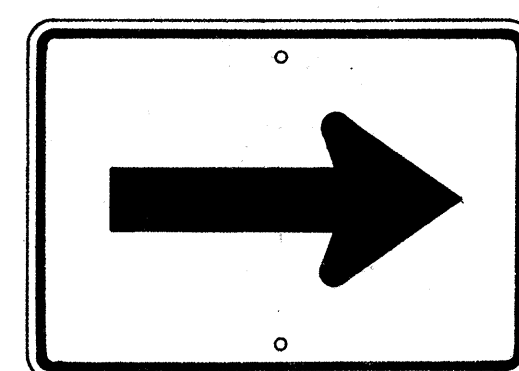
M2-1
21" x 15"



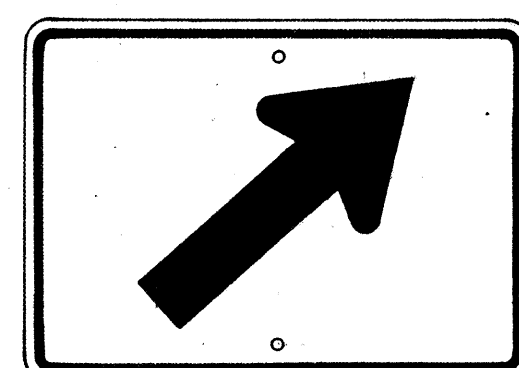
M3-1-L
* M3-1-R
21" x 15"



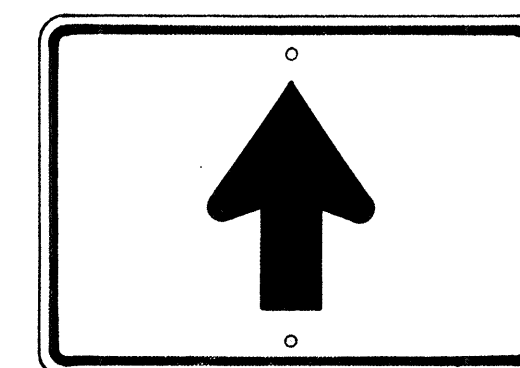
M3-2-L
* M3-2-R
21" x 15"



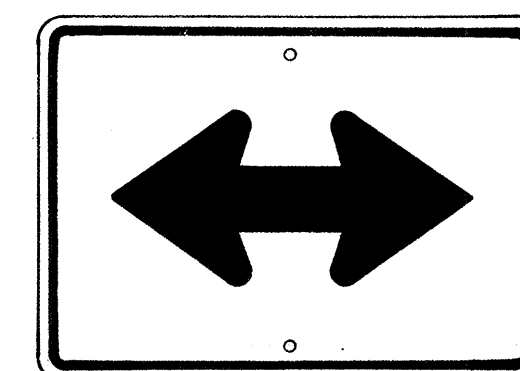
M4-1
21" x 15"



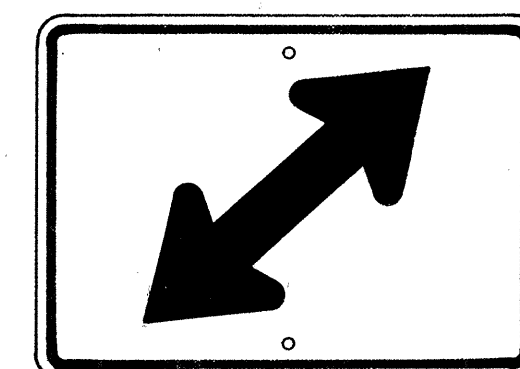
M4-2-R
* M4-2-L
21" x 15"



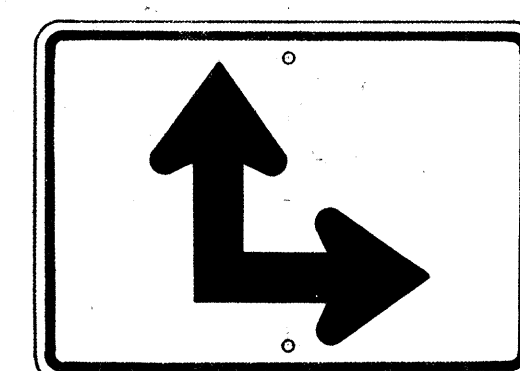
M4-3
21" x 15"



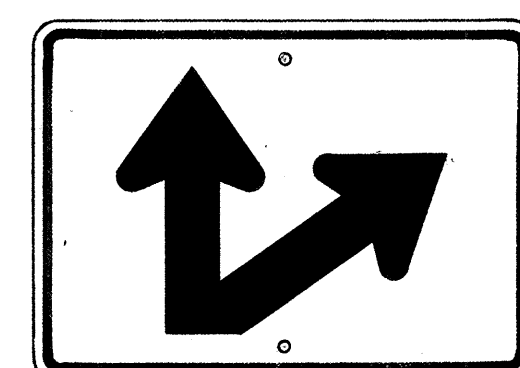
M4-4
21" x 15"



M4-5-R
* M4-5-L
21" x 15"



M4-6-R
* M4-6-L
21" x 15"

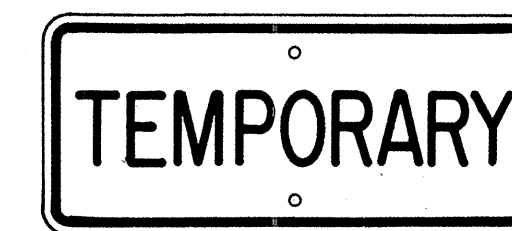


M4-7-R
* M4-7-L
21" x 15"

AUXILIARY MARKERS

Scale: $\frac{1}{8}$ " = 1"

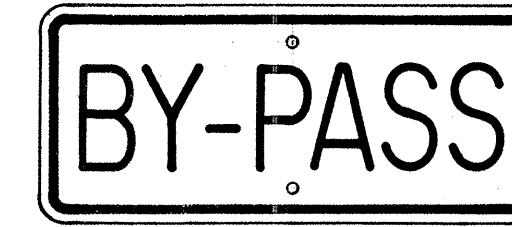
* NOTE:
Signs shall be similar but opposite in direction.



M5-1
21" x 9"



M5-2
21" x 9"



M5-3
21" x 9"



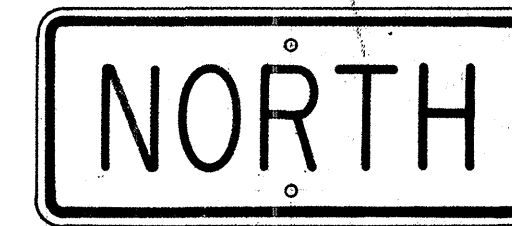
M5-4
21" x 9"



M5-5
21" x 9"



M5-6
21" x 9"



M6-1-N
21" x 9"
(See Note 6)



M7-1
18" x 12"

GENERAL NOTES

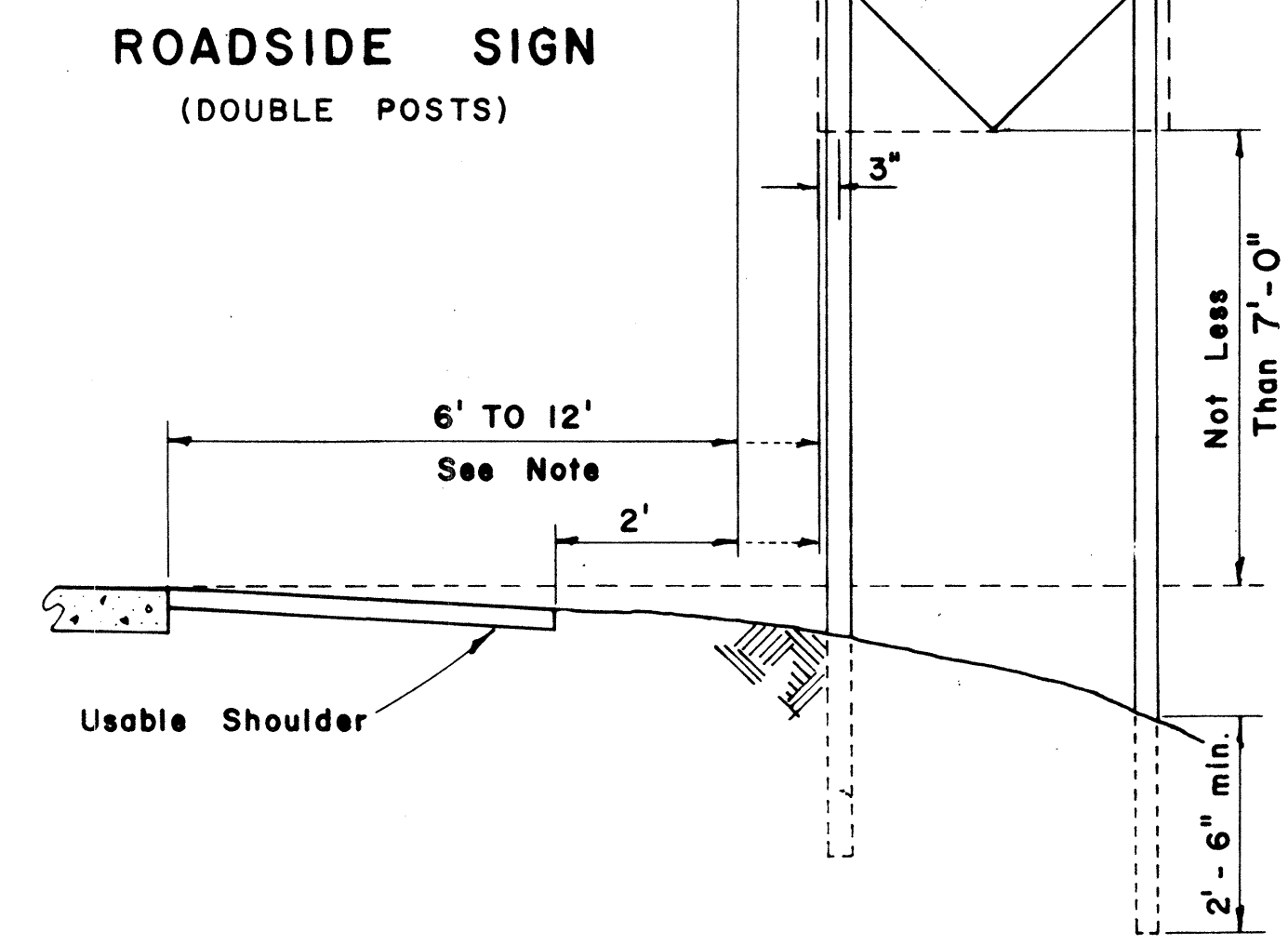
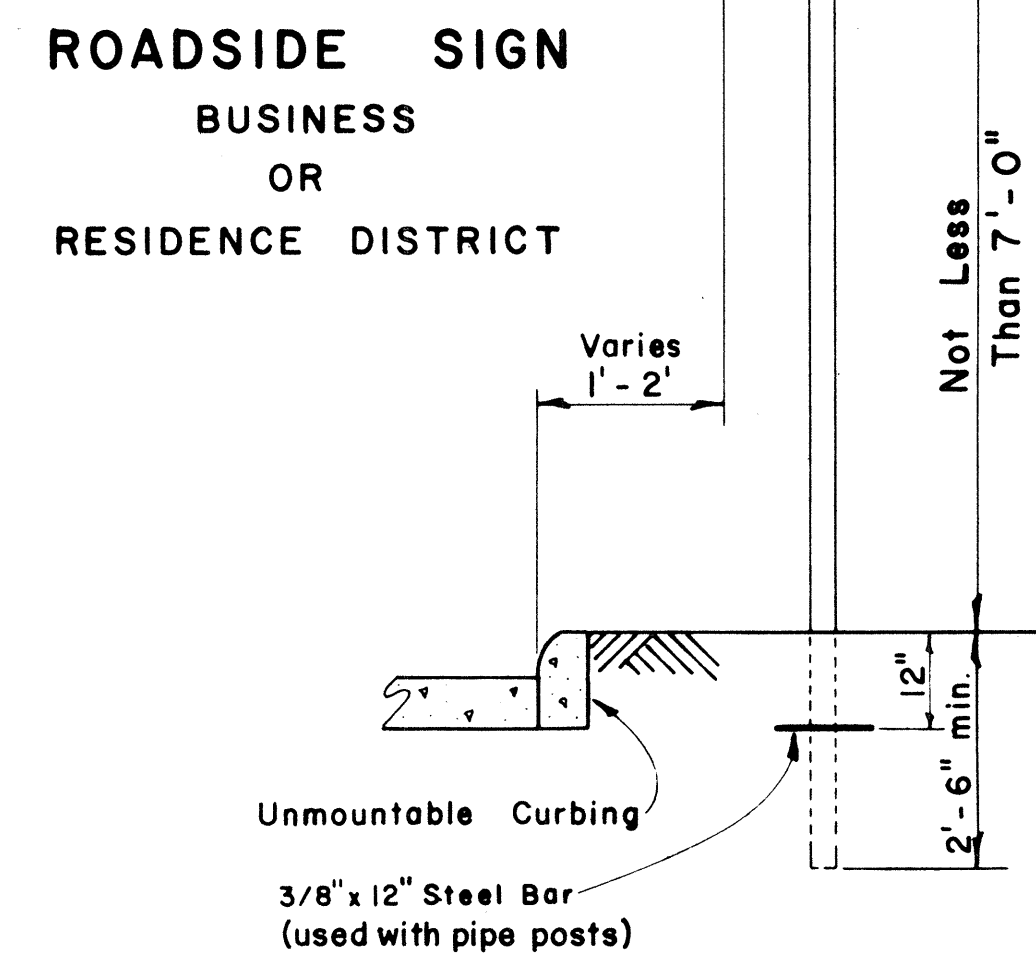
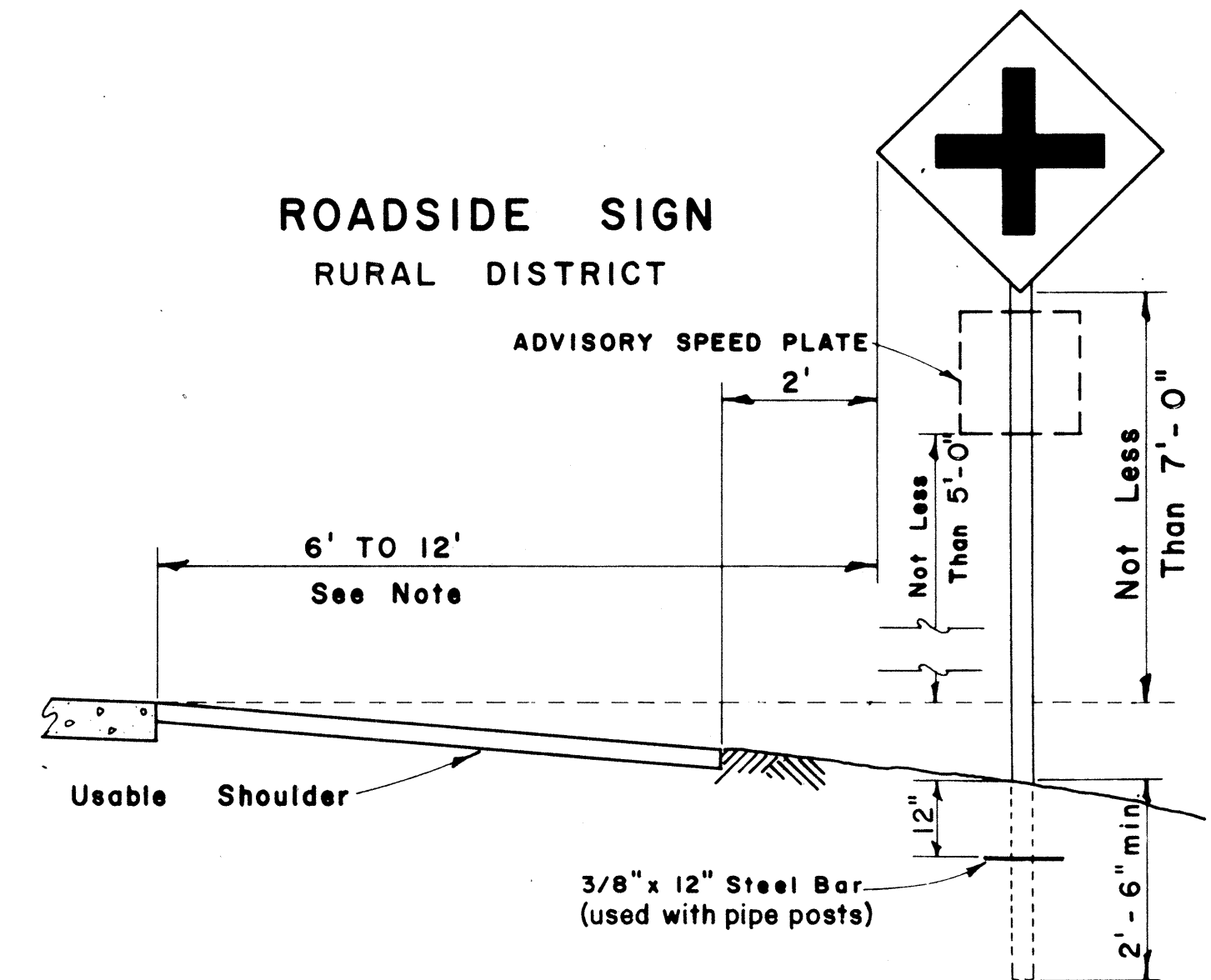
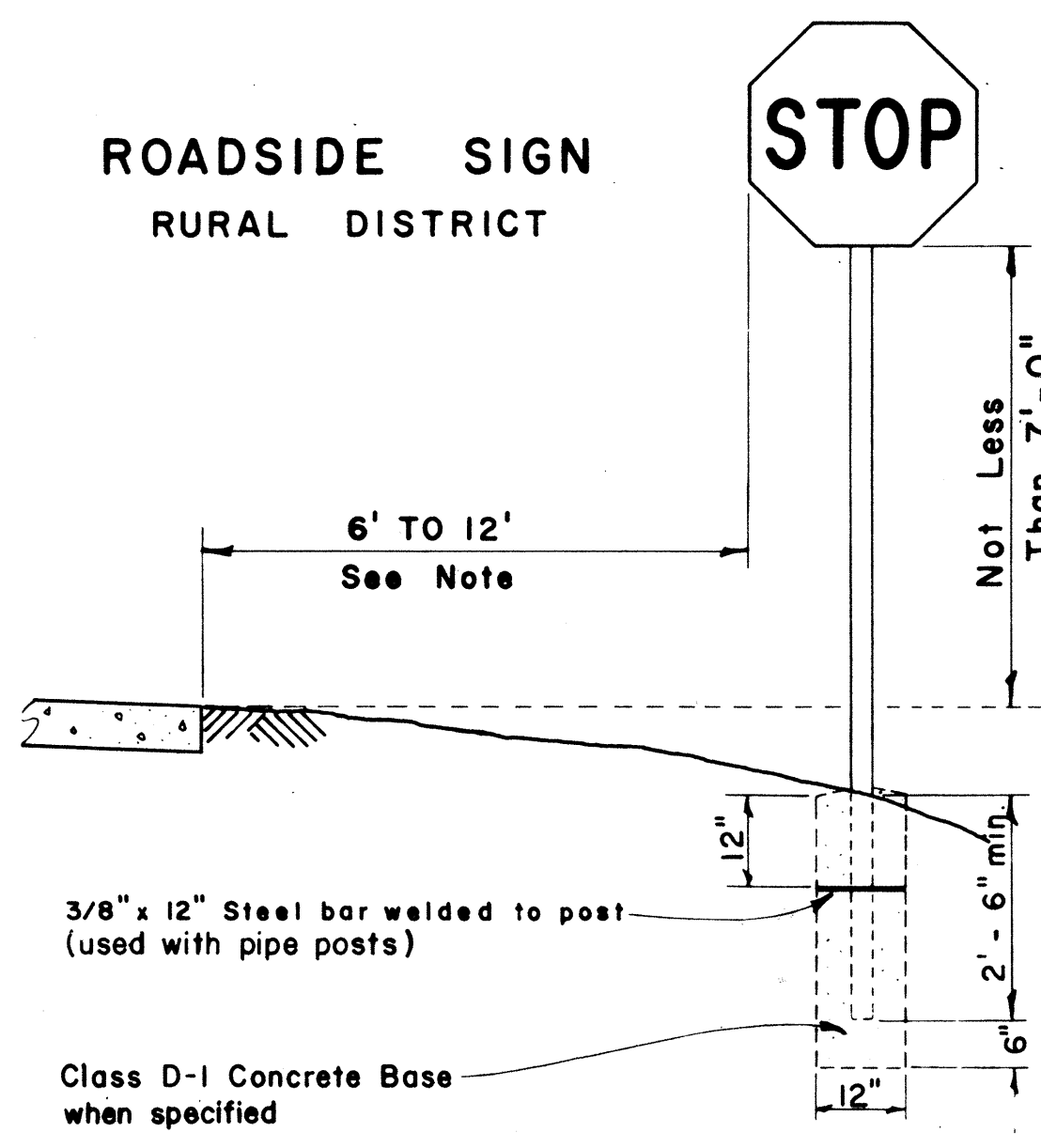
- The shape, color, dimensions, symbols, wording, lettering and reflectorizing of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961, unless otherwise specified.
- All letters and figures shall conform to the manual "Standard Alphabets for Highway Signs," Dept. of Commerce, Bureau of Public Roads, 1952.
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise specified.
- All markers shall have a black legend on a white background unless otherwise specified.
- Sign message of Cardinal Direction Marker (M6-1) shall be denoted by the following suffixes:
M6-1-N : NORTH
M6-1-E : EAST
M6-1-S : SOUTH
M6-1-W : WEST
- Auxiliary markers denoted with the suffix "I" (M4-1-I) shall have a white legend on a blue background.
- Cardinal Direction Marker (M6-1) with suffix I(3) shall have a white legend on a blue background and shall be 30" x 15" in size.
- For MI-3 and MI-4 signs, number in () indicates route number and shall be as shown on the plan.

APPROVED: _____ DATE: _____

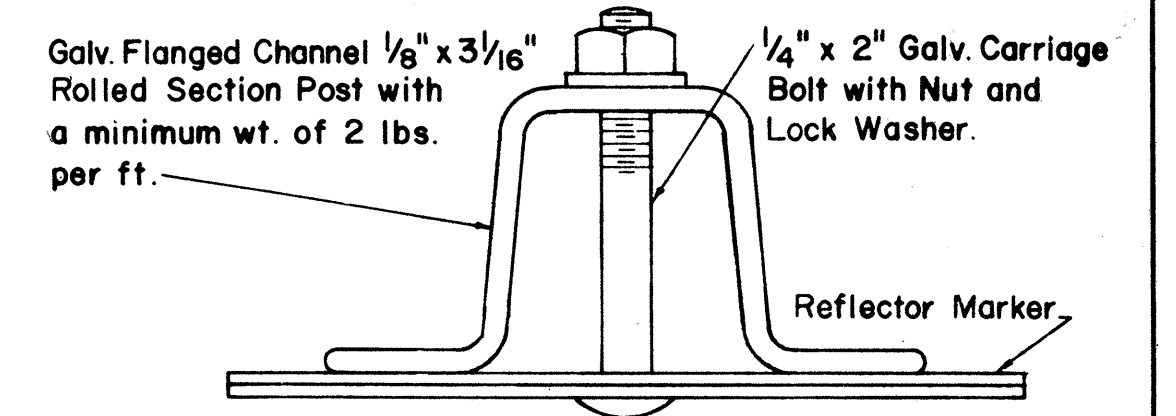
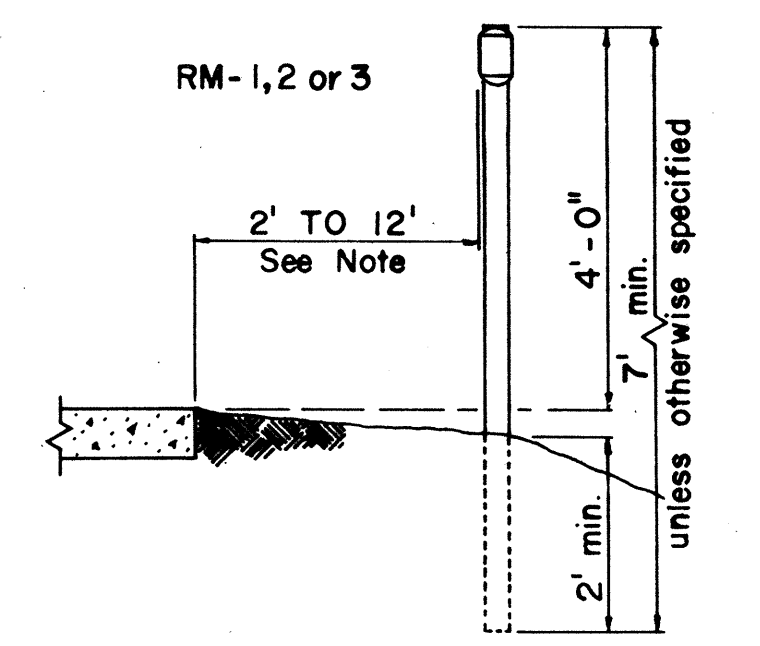
DIRECTOR OF TRANSPORTATION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
STATE ROUTE MARKERS
AND
AUXILIARY MARKERS
Scale: As Noted
SHEET NO. 21 OF 20 SHEETS

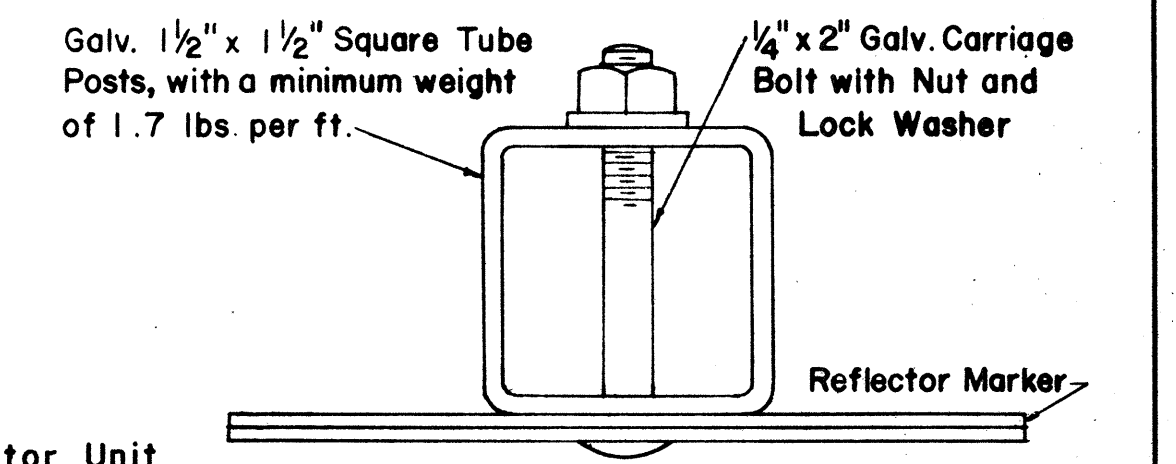
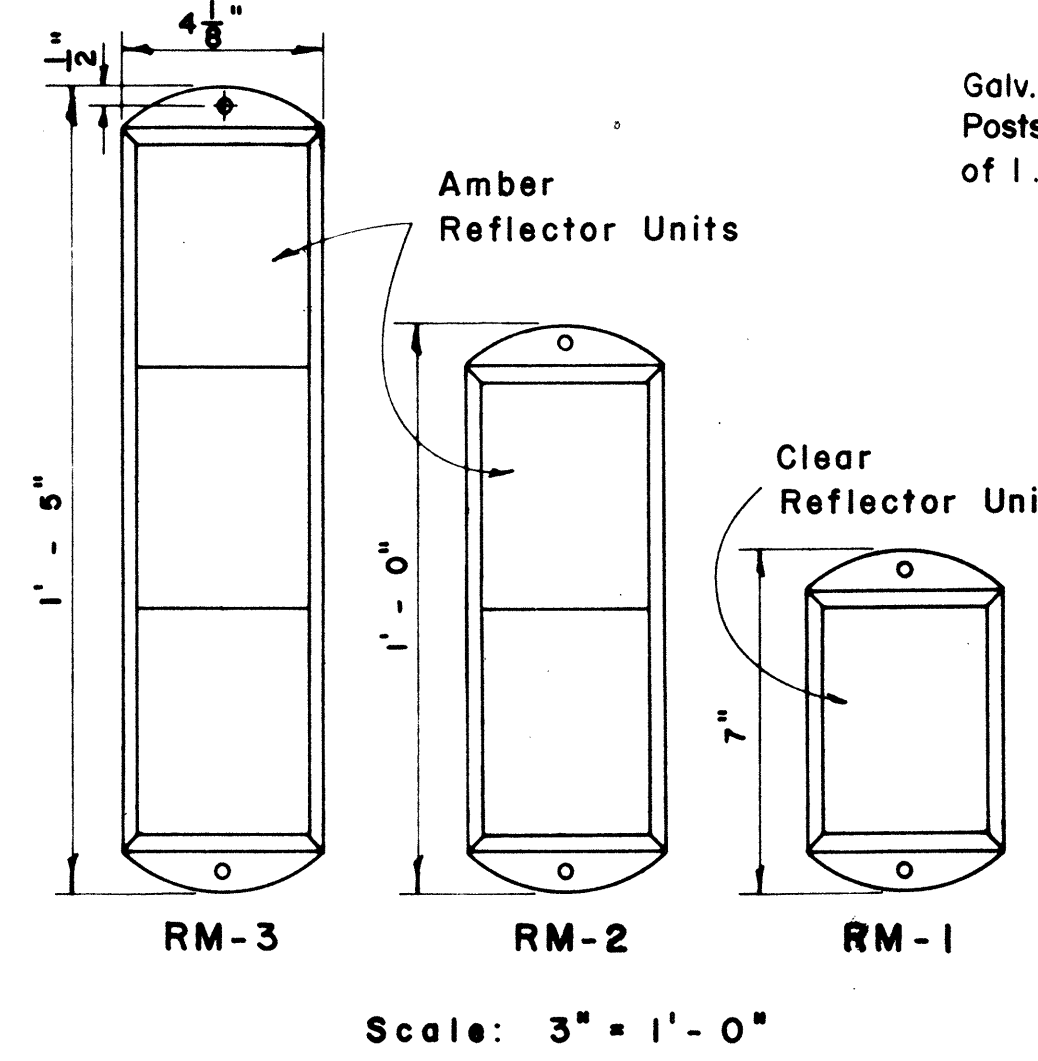
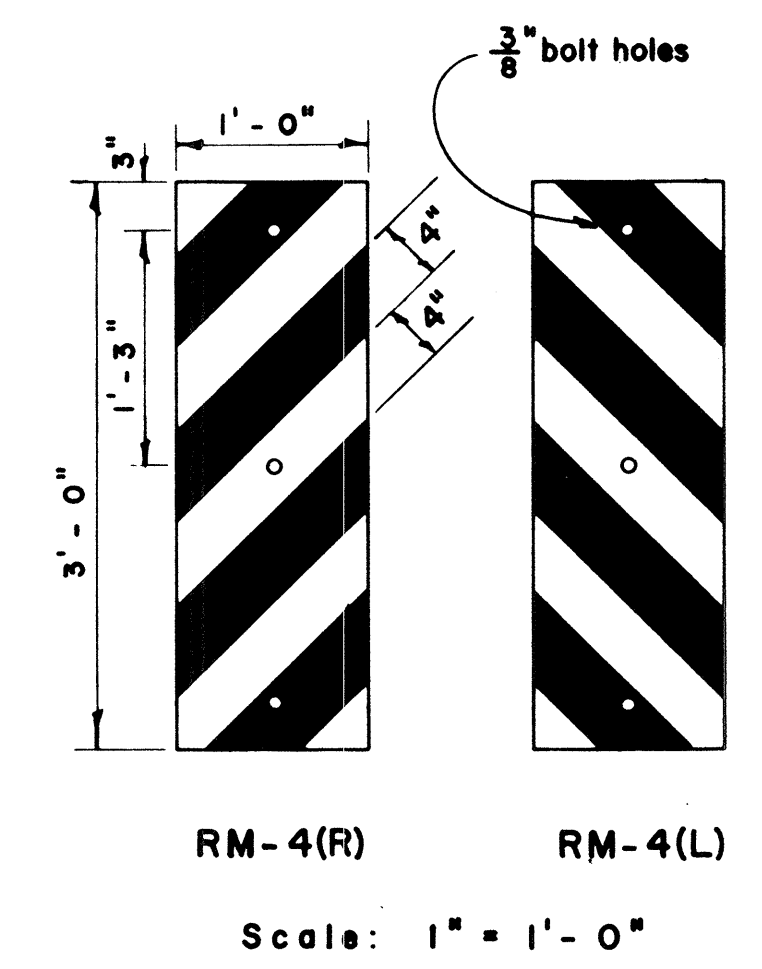
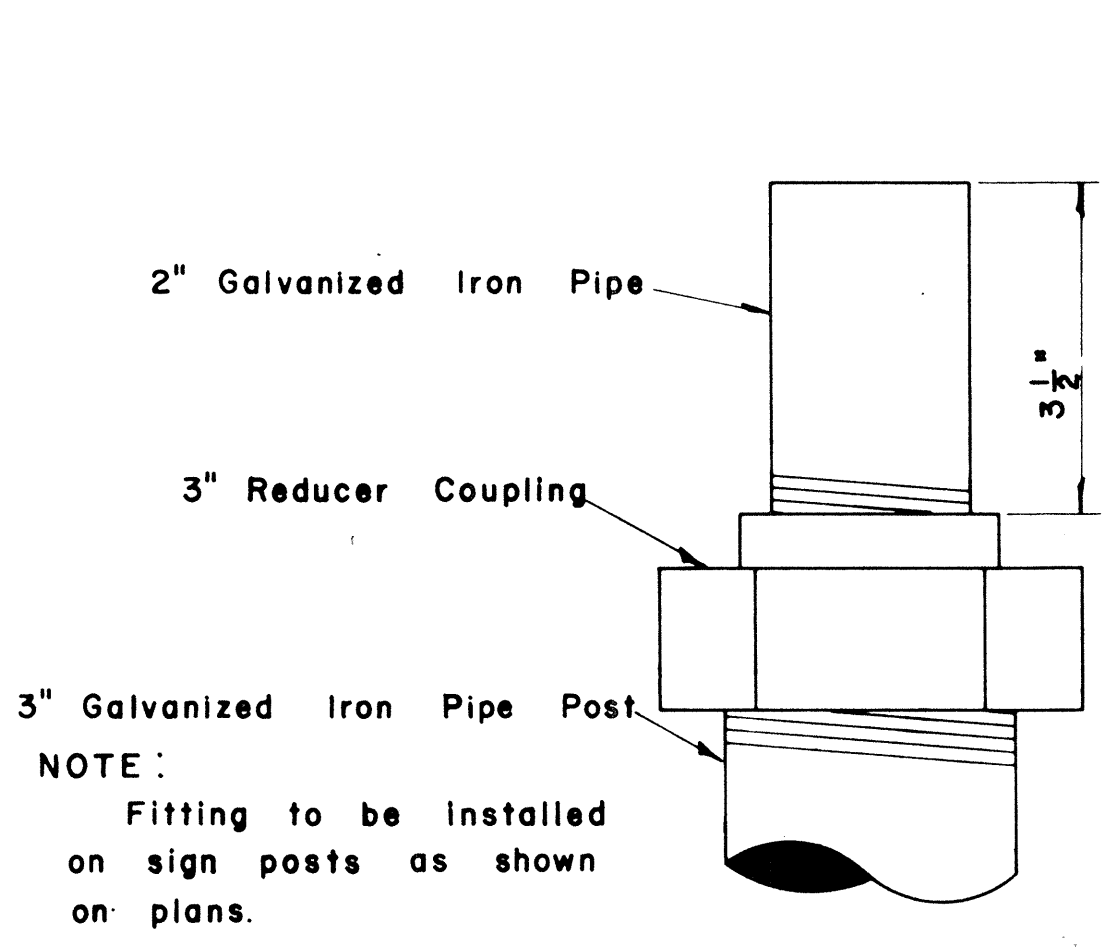
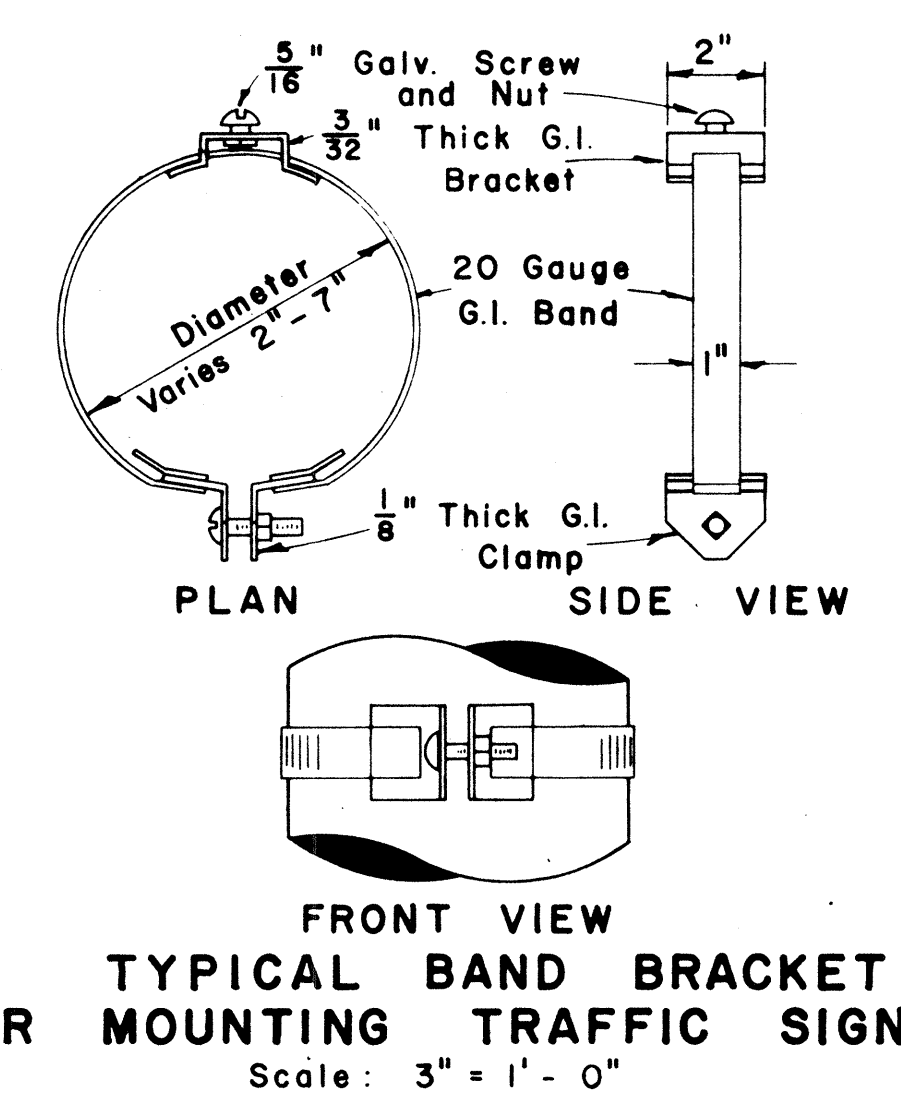
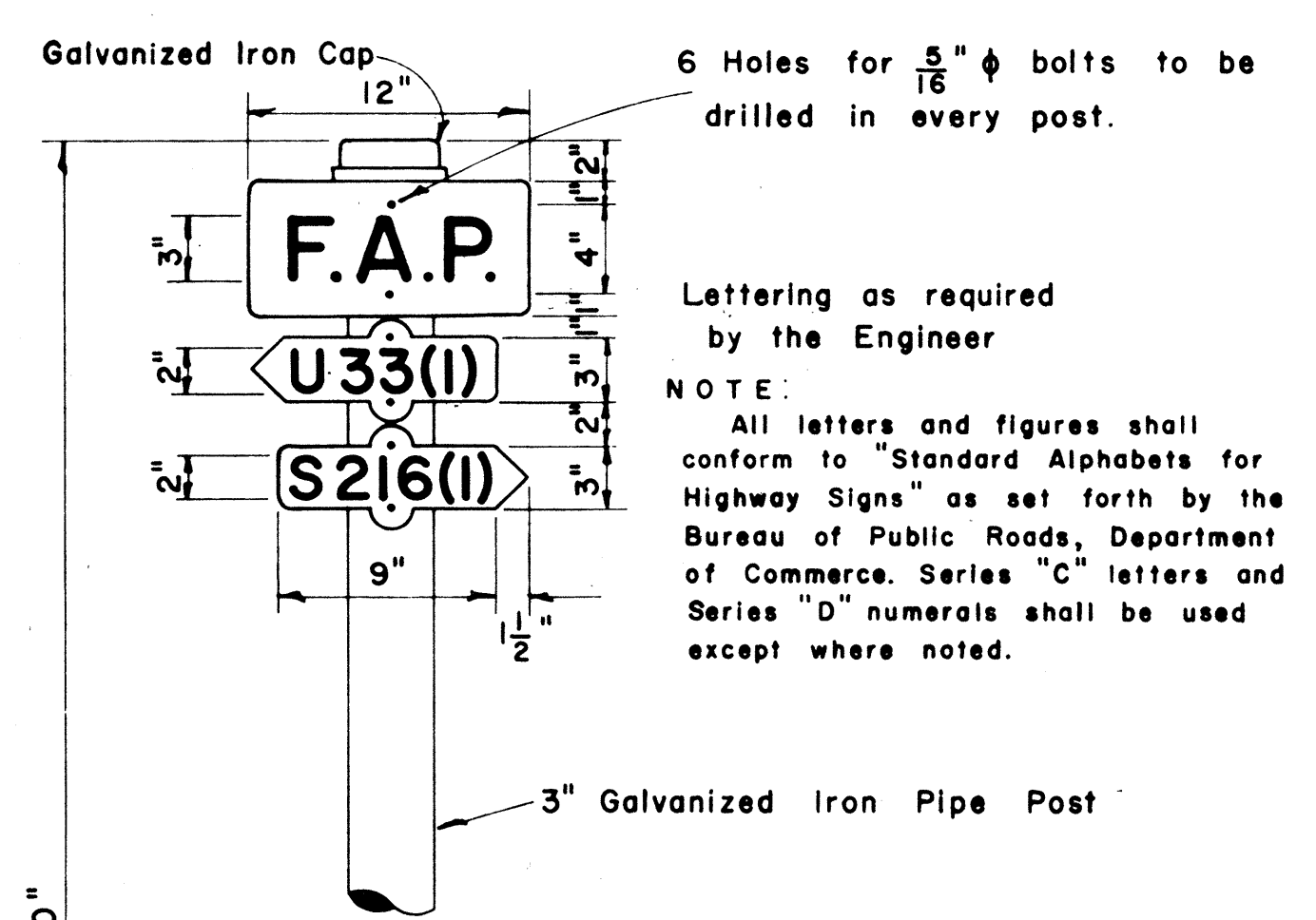
NOTE:
 1. All signs and road delineators shall be placed 2' outside the usable roadway shoulder or 1' outside unmountable curbing present and within the limits shown below.
 2. Except as noted below, sign posts shall be either 3" galv. std. pipe or 2 1/2" x 2 1/2" galv. square tube posts for signs larger 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.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-141-1(20) UNIT 1	1967	218	222

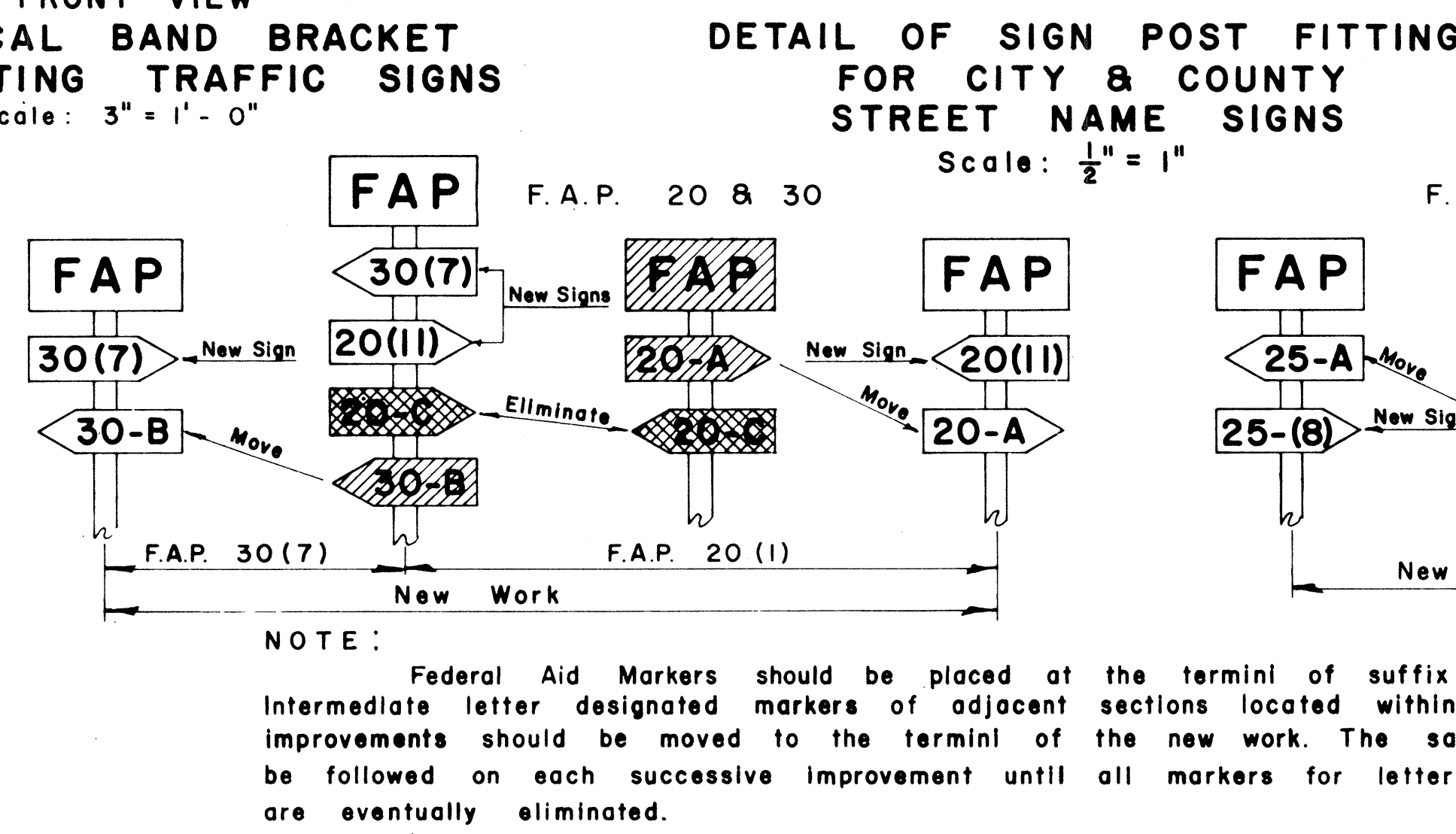
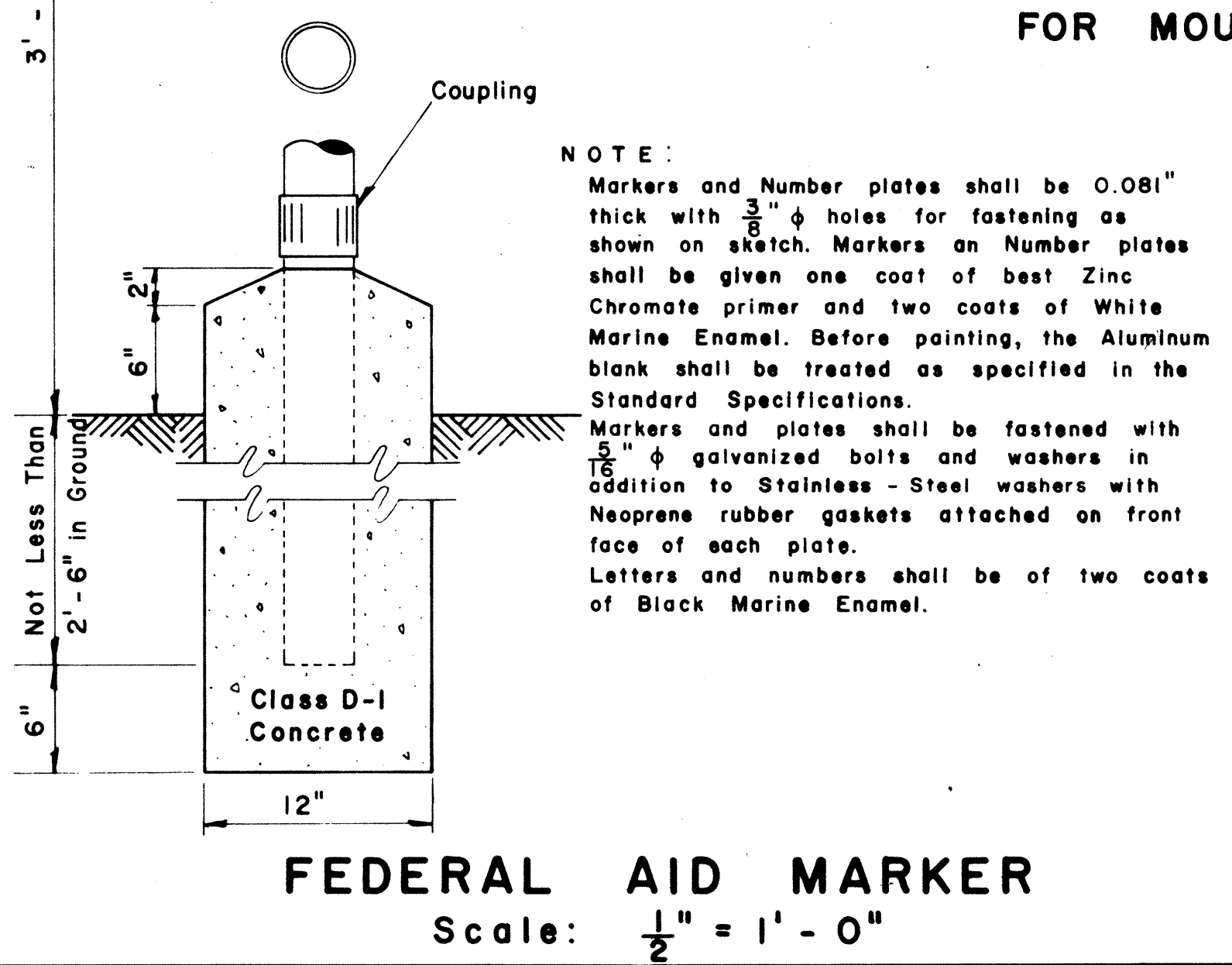


HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS

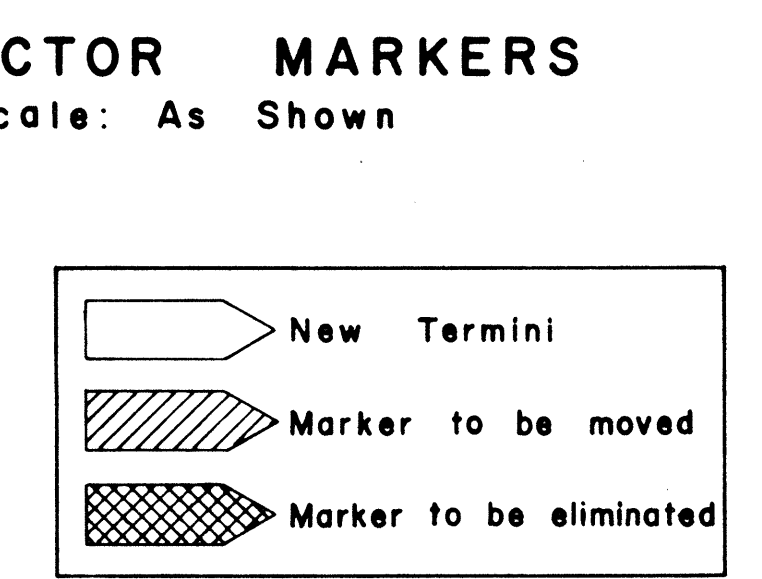
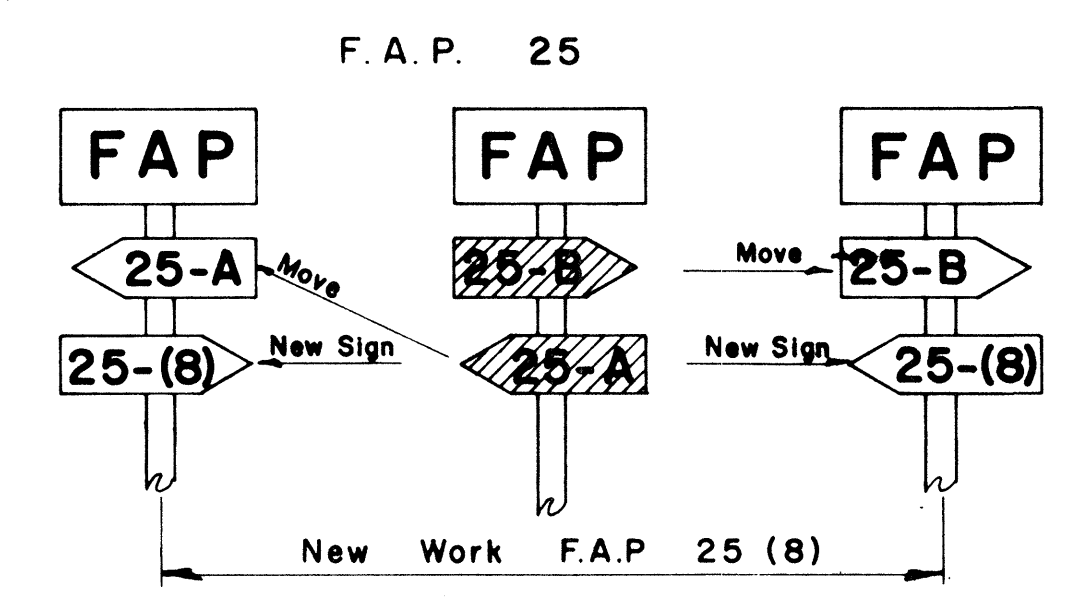


TYPICAL SECTION OF ROAD DELINEATOR Full Size

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.



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



APPROVED: _____ DATE: 1/22/67

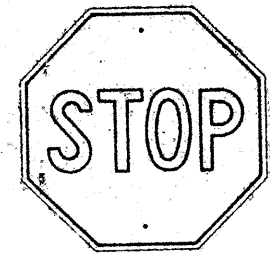
DIRECTOR OF TRANSPORTATION

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

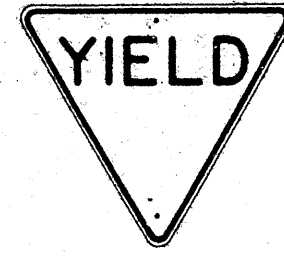
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
 F.A. MARKER
 AND
 MISCELLANEOUS SIGN
 DETAILS

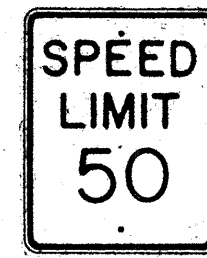
Scale: As Shown



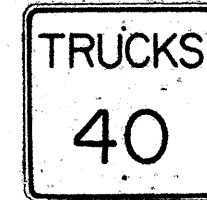
R1-1 30"x 30"



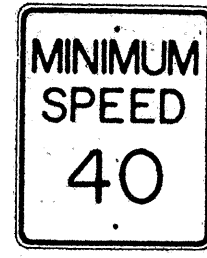
R1-2 36"x 36"x 36"
R1-2-E 48"x 48"x 48"
R1-2-I 60"x 60"x 60"



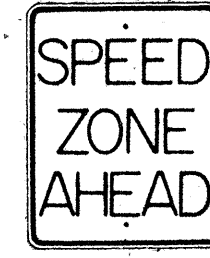
R2-1(50) 24"x 30"
R2-1(50)-E 36"x 48"
R2-1(50)-I 48"x 60"



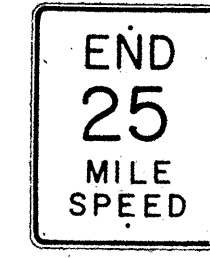
R2-2(40) 24"x 24"
R2-2(40)-E 36"x 36"
R2-2(40)-I 48"x 48"



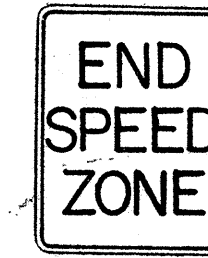
R2-4(40) 24"x 30"
R2-4(40)-E 36"x 48"
R2-4(40)-I 48"x 60"



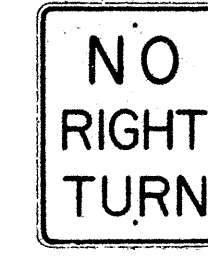
R2-5 24"x 30"
R2-5-E 36"x 48"
R2-5-I 48"x 60"



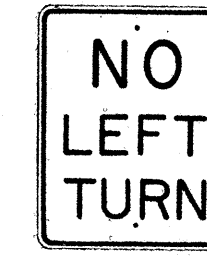
R2-6(25) 24"x 30"
R2-6(25)-E 36"x 48"
R2-6(25)-I 48"x 60"



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



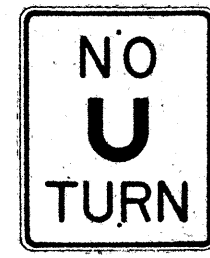
R3-1 24"x 30"
R3-1-E 36"x 48"



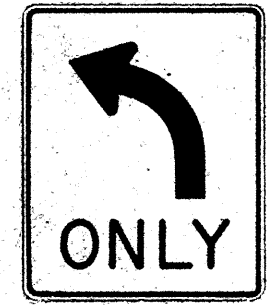
R3-2 24"x 30"
R3-2-E 36"x 48"



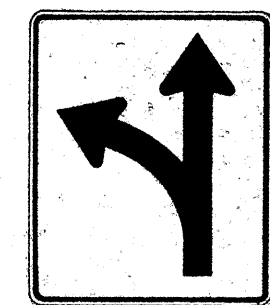
R3-3 24"x 24"



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



R3-5(L) 30"x 36"



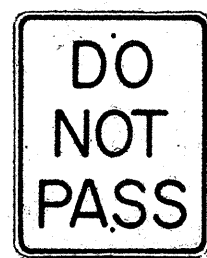
R3-6(L) 30"x 36"



R3-7(R) 30"x 30"



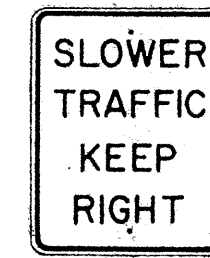
R3-8(L) 30"x 30"



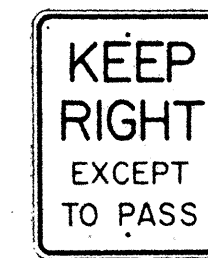
R4-1 24"x 30"



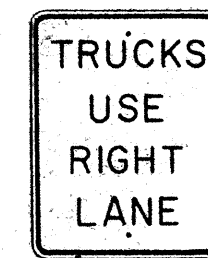
R4-2 24"x 30"



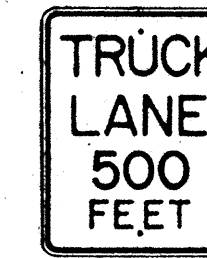
R4-3 24"x 30"
R4-3-E 36"x 48"
R4-3-I 48"x 60"



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"



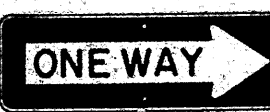
R4-6 24"x 30"
R4-6-E 36"x 48"



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



R5-1 24"x 24"



R6-1(R) 36"x 12"



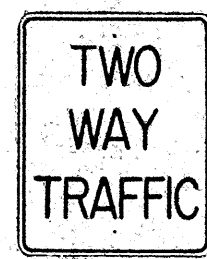
R6-2(R) 18"x 24"



R6-3 24"x 30"



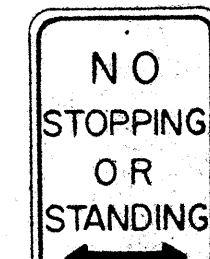
R6-4 24"x 30"



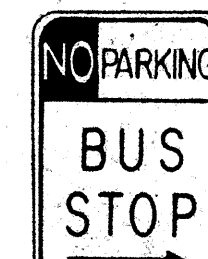
R6-5 24"x 30"



R7-1 12"x 18"



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



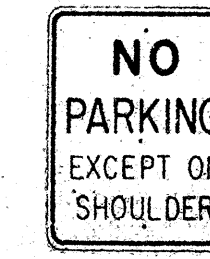
R7-107(R) 12"x 18"



R7-201 12"x 6"



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



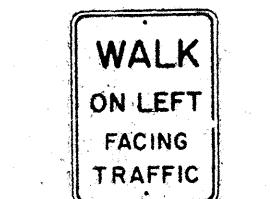
R8-2 24"x 30"
R8-2-E 36"x 48"



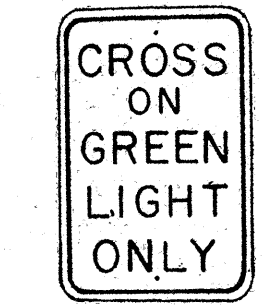
R8-3 24"x 30"
R8-3-E 36"x 48"



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



R9-1 18"x 24"



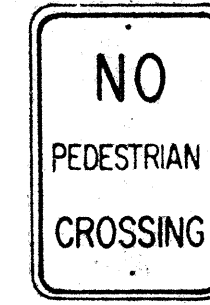
R9-2 12"x 18"



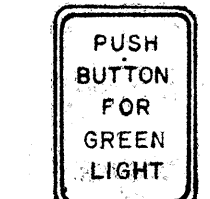
R9-3 12"x 18"



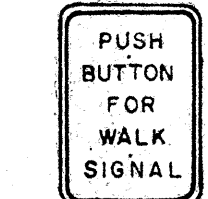
R9-4 12"x 18"



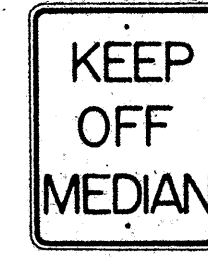
R9-5 12"x 18"



R9-6 9"x 12"



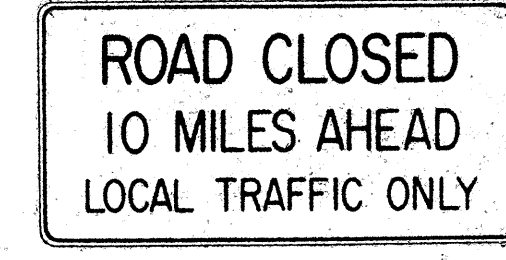
R9-7 9"x 12"



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:

- 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 regulatory signs shall be reflectorized unless otherwise specified.
- All regulatory signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.
- The suffix "E" denotes Expressway signs and "I" denotes Interstate signs.
- For R2 signs, number in () indicates speed and shall be as shown on the plans.
- (R) or (L) indicates right or left and shall be as shown on the plans.
- For R10-4 sign, number in () indicates weight and shall be as shown on the plan.

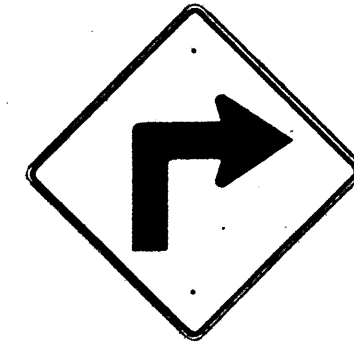
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
REGULATORY SIGNS

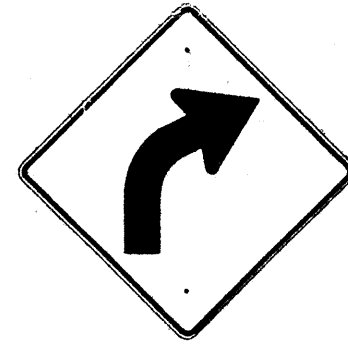
NOT TO SCALE

SHEET No. 23 OF 26 SHEETS

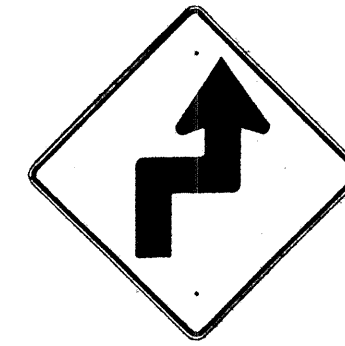
219



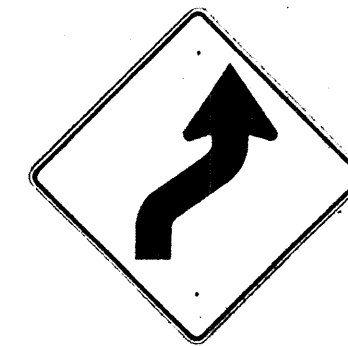
W1-1(R) 30" x 30"



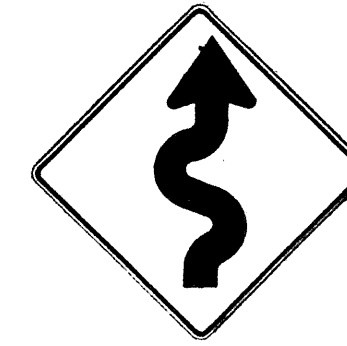
W1-2(R) 30" x 30"



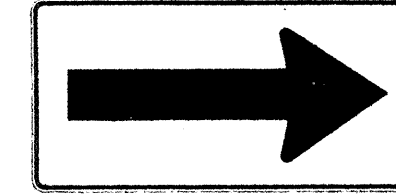
W1-3(R) 30" x 30"



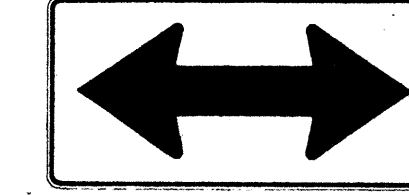
W1-4(R) 30" x 30"



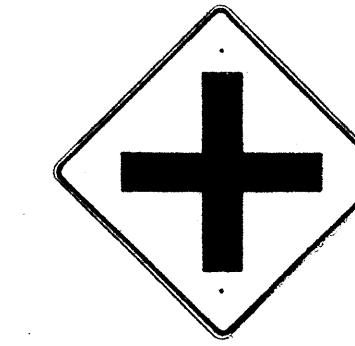
W1-5(R) 30" x 30"



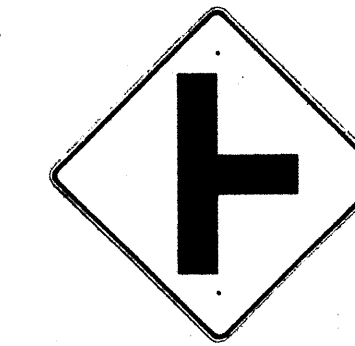
W1-6 48" x 24"



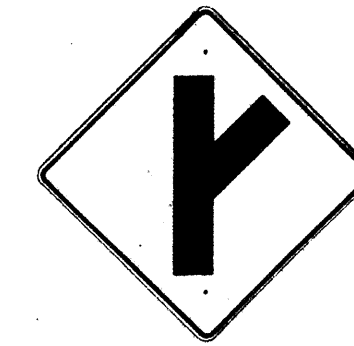
W1-7 48" x 24"



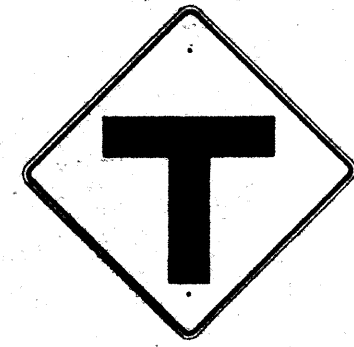
W2-1 30" x 30"



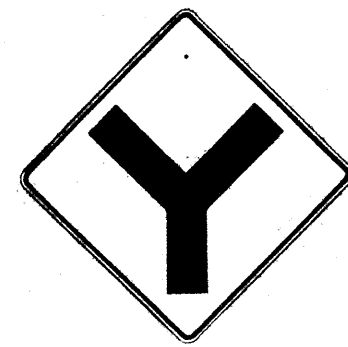
W2-2 30" x 30"



W2-3(R) 30" x 30"



W2-4 30" x 30"



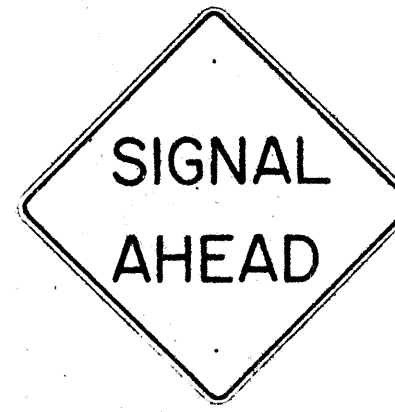
W2-5 30" x 30"



W3-1 30" x 30"



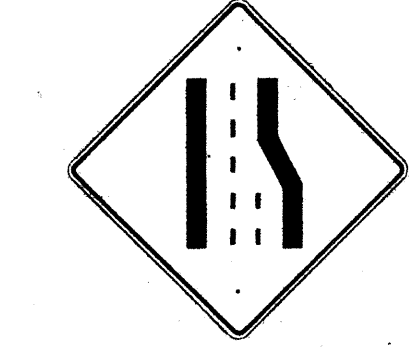
W3-2 30" x 30"



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"



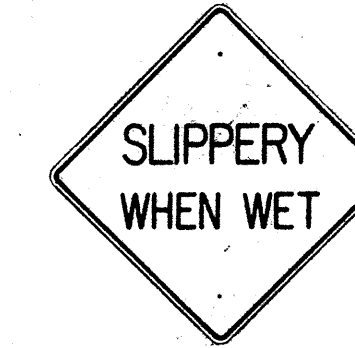
W8-2 30" x 30"



W8-3 30" x 30"



W8-4 30" x 30"



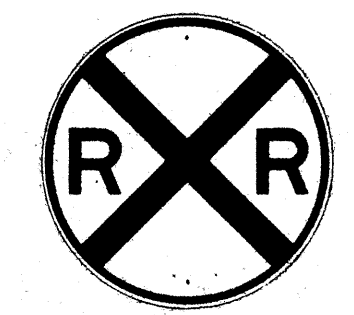
W8-5 30" x 30"



W9-1 30" x 30"



W9-2 30" x 30"



W10-1 36" DIAMETER



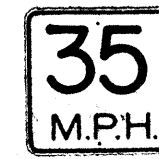
W11-1 30" x 30"



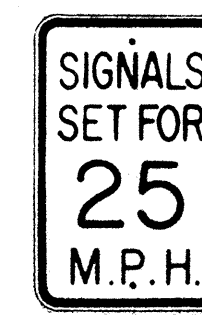
W11-5 30" x 30"



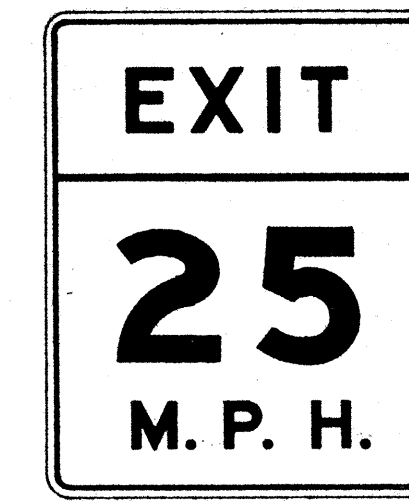
W12-2 36" x 36"



W13-1(35) 18" x 18"



W13-2(25) 12" x 18"



W13-3(25)-I 48" x 60"

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 warning signs shall be reflectorized unless otherwise specified.
3. All warning signs shall have 3/8" bolt holes drilled at appropriate locations unless otherwise noted.
4. (R) or (L) indicates right or left and shall be as shown on the plan.
5. The suffix "E" denotes Expressway signs and "I" denotes Interstate signs.
6. For W13 sign, number in () indicates speed and shall be as shown on the plans.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

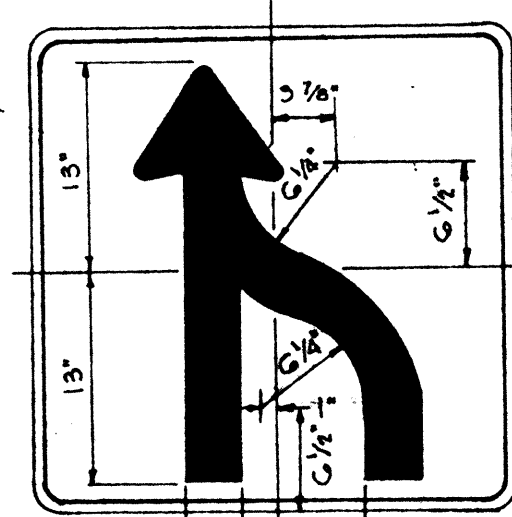
WARNING SIGNS

NOT TO SCALE

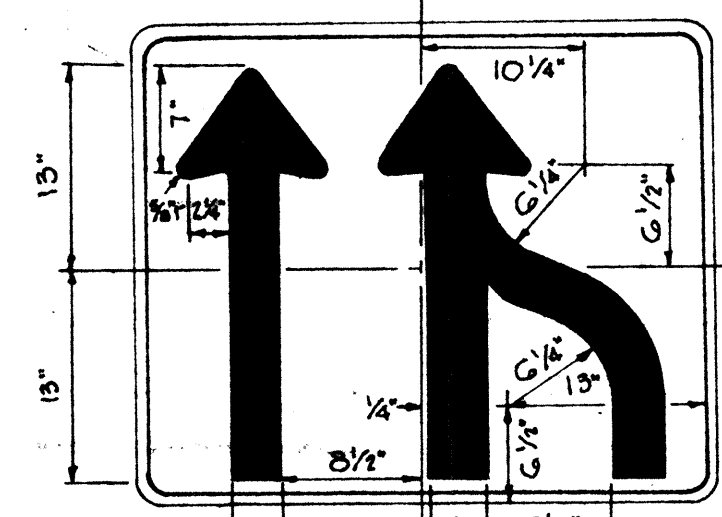
SHEET No. 24 OF 26 SHEETS

220

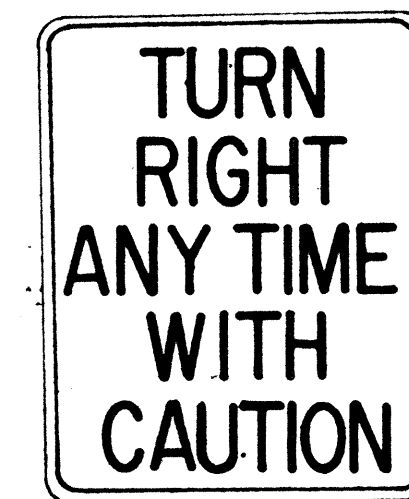
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-111(1)	1967	21	27



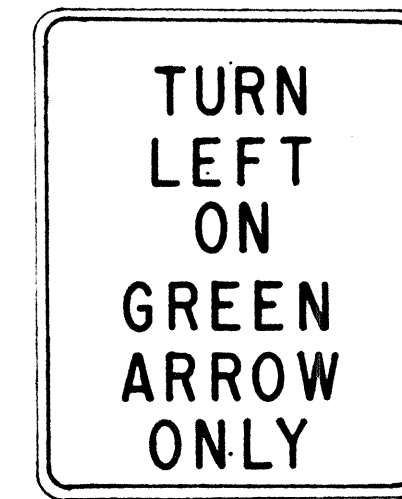
R3 - 9 30" x 30"



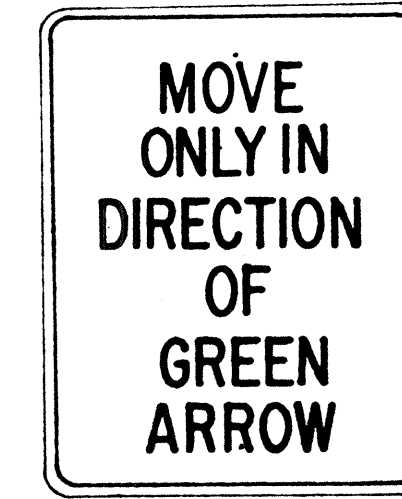
R3-10 36" x 30"



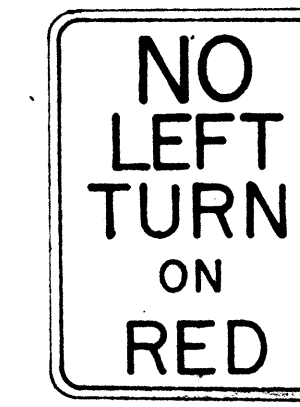
R15 - 1 24" x 30"



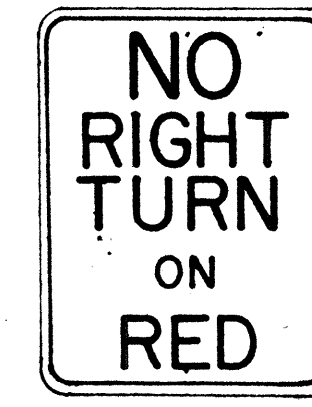
R16 - 1 24" x 30"



R16 - 2 24" x 30"



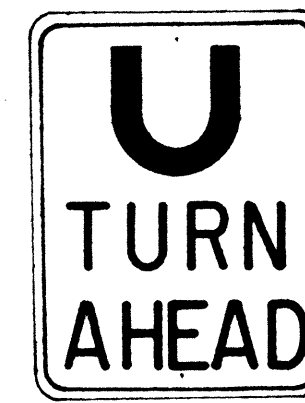
R17 - 1 18" x 24"



R17-2 18" x 24"



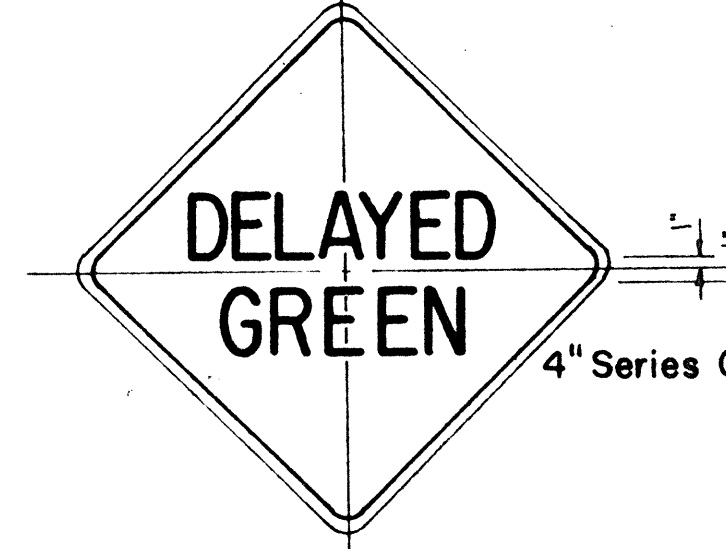
R18-1 36" x 30"



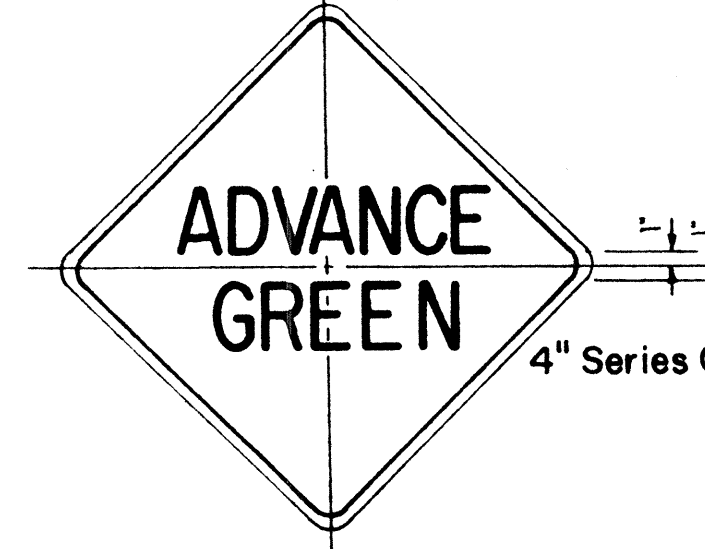
R19-1 18" x 24"



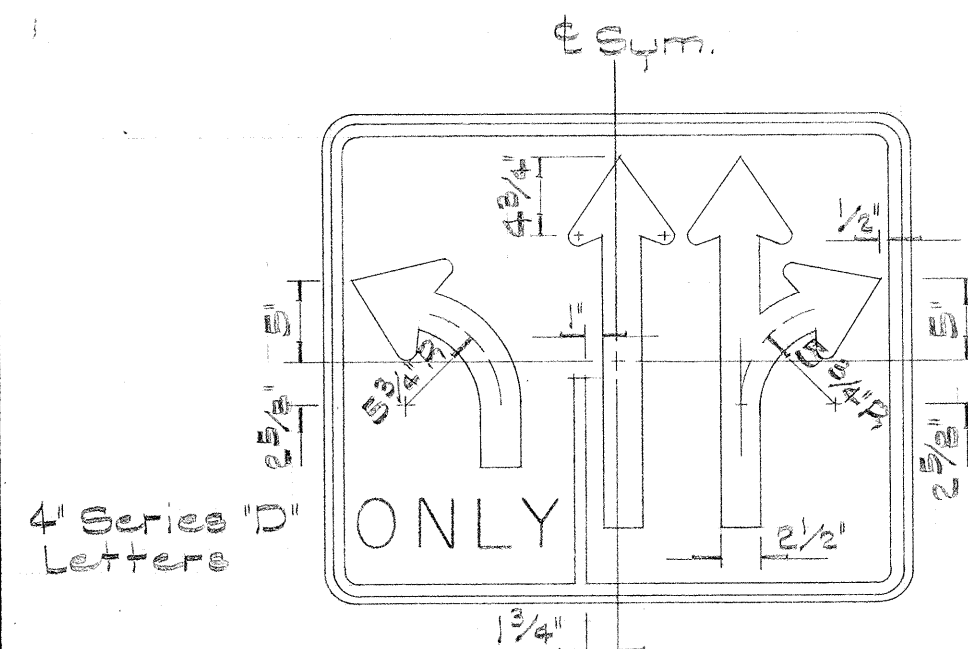
W13 - 4 24" x 24"



W15 - 1 24" x 24"



W15 - 2 24" x 24"



R3-13
36" x 30"

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 $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
MISCELLANEOUS
REGULATORY & WARNING SIGNS

Scale: 1" = 1'-0"

SHEET No. 25 OF 26 SHEETS

ORIGINAL	DATE
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	



W 7-2 48"x48"



W8-7 30"x30"



W14-1 30"x30"



W20-1a 48"x48"



W20-2d 48"x48"



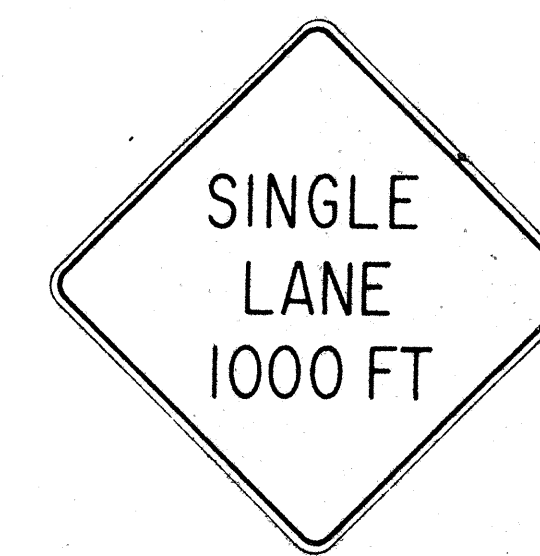
W20-3b 48"x48"



W20-4d 48"x48"



W20-5d(L) 48"x48"



W20-6b 48"x48"



W20-7c 48"x48"



W21-1 30"x30"



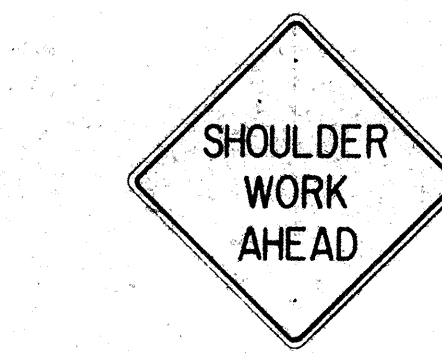
W21-2 24"x24"



W21-3 36"x36"



W21-4 30"x30"



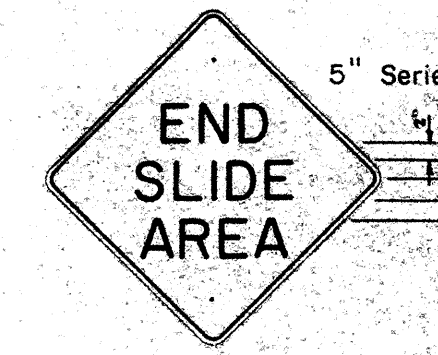
W21-5 30"x30"



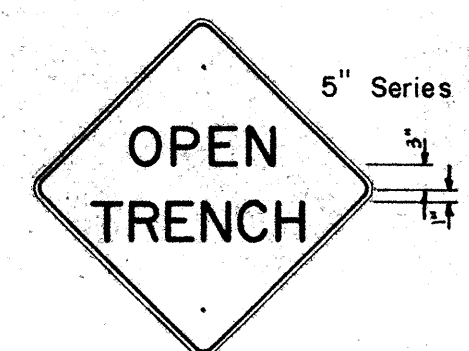
W21-6 30"x30"



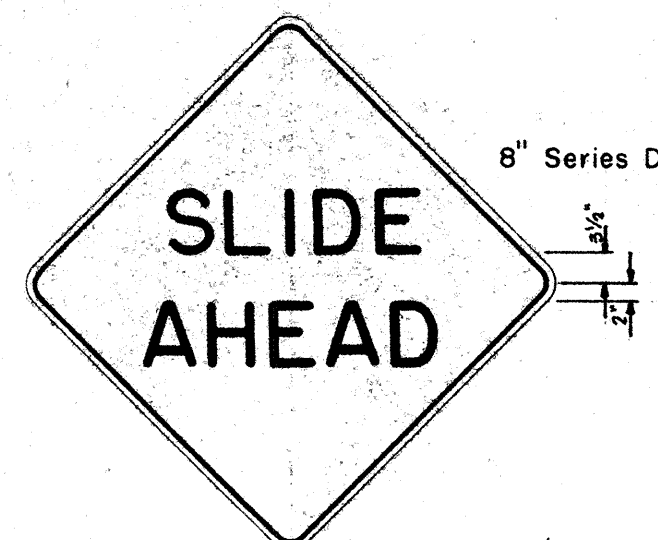
W22-1 30"x30"



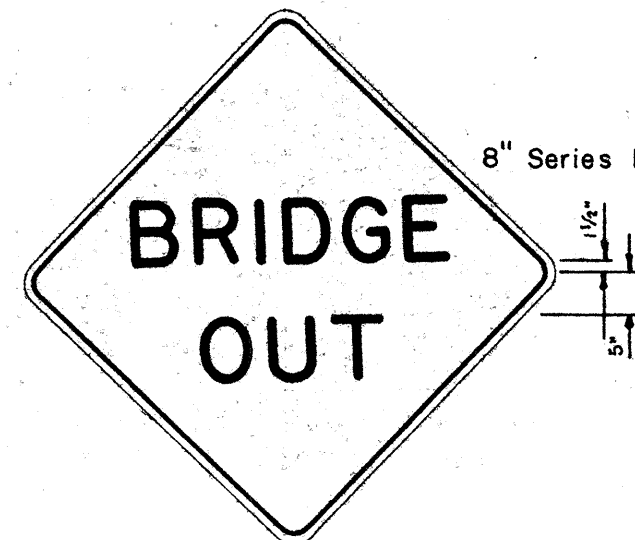
W22-2 30"x30"



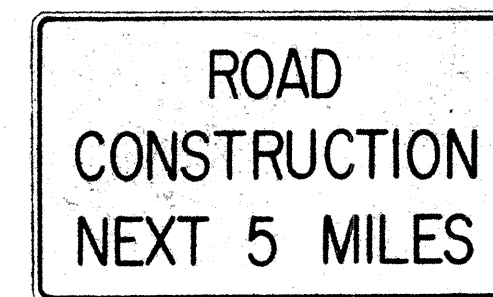
W22-3 30"x30"



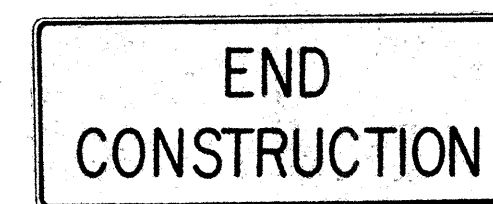
W22-4 48"x48"



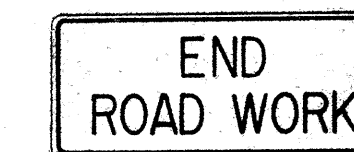
W22-5 48"x48"



G20-1(5) 60"x36"



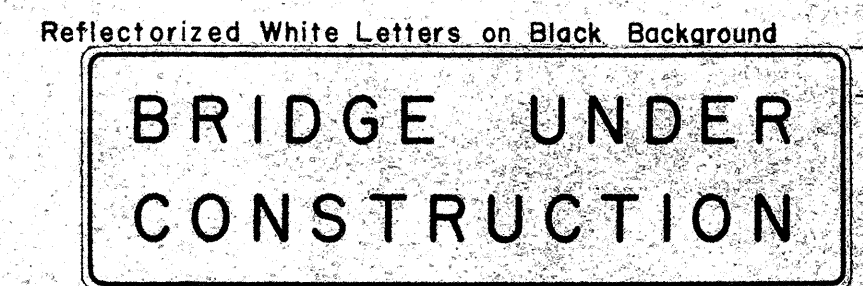
G20-2 60"x24"



G20-3 42"x18"



M5-7(L) 48"x18"



CW-1 96"x30"

- 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 W20 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. 22 OF 29 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	