

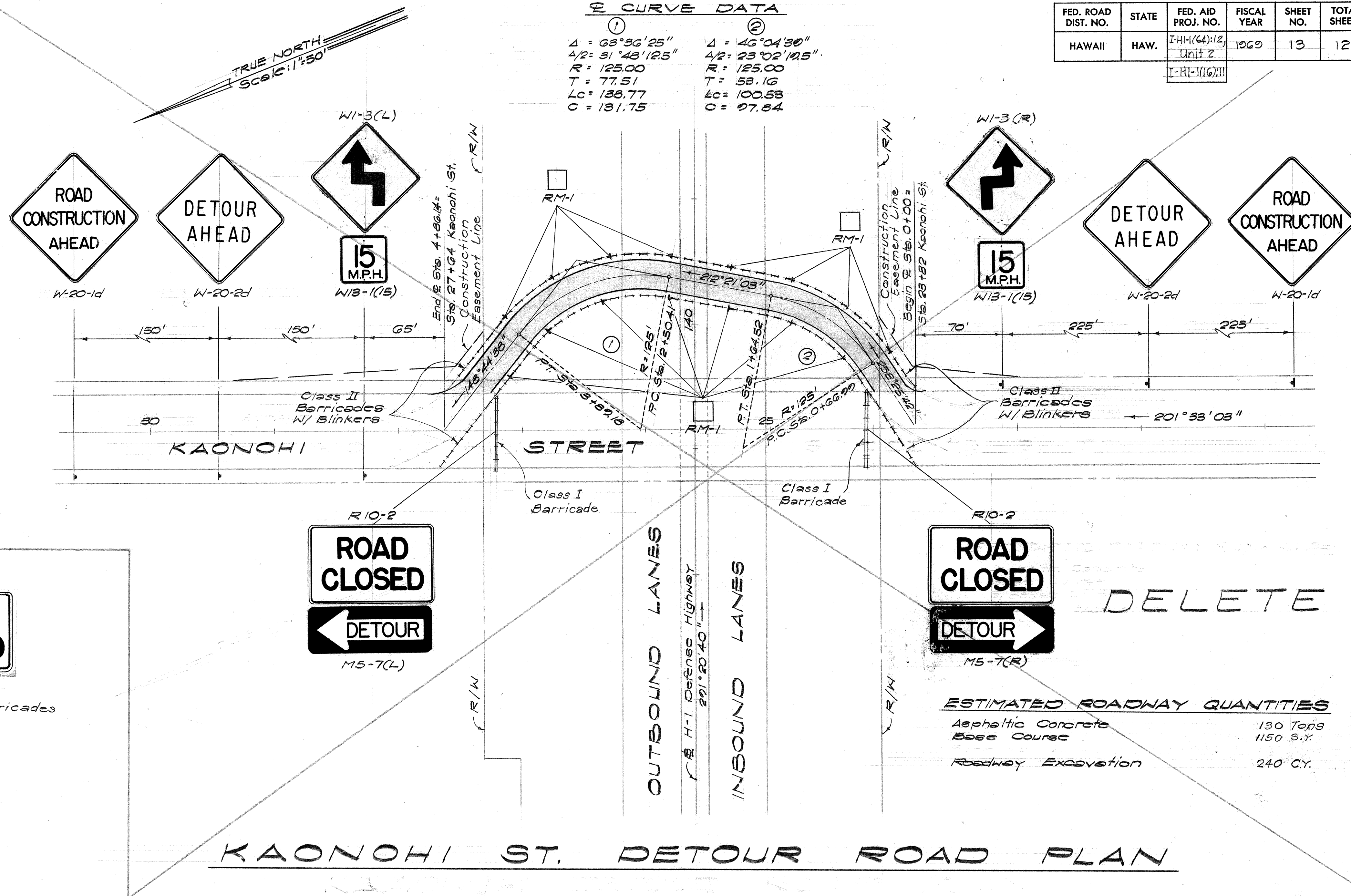
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(64):12, Unit 2	1969	13	128

DETOUR SIGN SUMMARY

TYPE	DESCRIPTION	AMOUNT
R10-2	ROAD CLOSED	3
W1-6(L)	←	1
W20-1d	ROAD CONSTRUCTION AHEAD	2
W20-2d	DETOUR AHEAD	2
W13-1(15)	15 M.P.H.	2
W1-3(L)	↙ ↘	1
W1-3(R)	↙ ↘	1
MS-7(L)	← DETOUR	1
MS-7(R)	DETOUR →	1
RM-1	REFLECTOR MARKER W/ POST	11
	CLASS I BARRICADES	10
	CLASS II BARRICADES	30

2 CURVE DATA

①	②
Δ = 63°36'25"	Δ = 46°04'39"
Δ/2 = 31°48'12.5"	Δ/2 = 23°02'19.5"
R = 125.00	R = 125.00
T = 77.51	T = 53.16
Lc = 135.77	Lc = 100.53
C = 131.75	C = 97.64



R10-2
ROAD CLOSED

R10-2
ROAD CLOSED

R10-2
ROAD CLOSED

R10-2
ROAD CLOSED

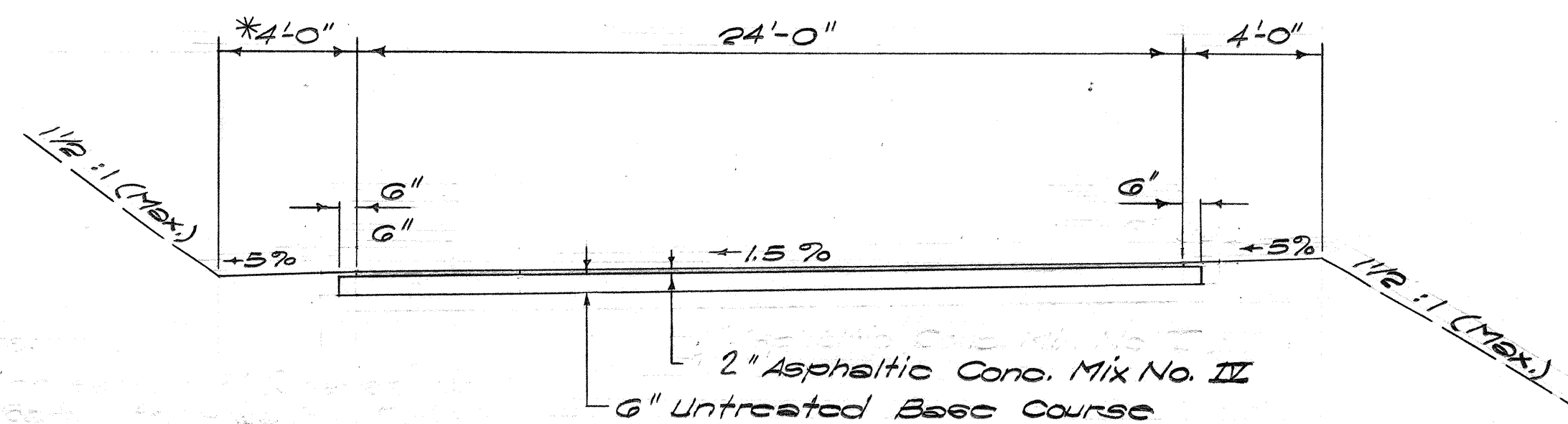
DELETE

OLOPANA ST. BARRICADE PLAN

Scale: 1"=50'

NOTES:

- All Signs, Barricades, Guard Rails, for the purpose of Traffic Detours shall become the property of the State after completion of the project.
- * - Increase detour road left side shoulder to 8'-0" for Aiea Hts. Detour Road where indicated on plan sheet no. 14.
- Alternative A.C. traffic roll curb details (other than that shown on plan sheet no. 14) may be used on Approval by the Engineer.
- All work on Aiea Hts. Drive shall be limited to off peak hours as directed by the Engineer. (See Special Provisions)
- See sheets 30 & 31 for Guard Rail details.



TYPICAL SECTION - DETOUR ROADS

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETOUR ROAD PLAN & ROAD BARRICADE PLAN

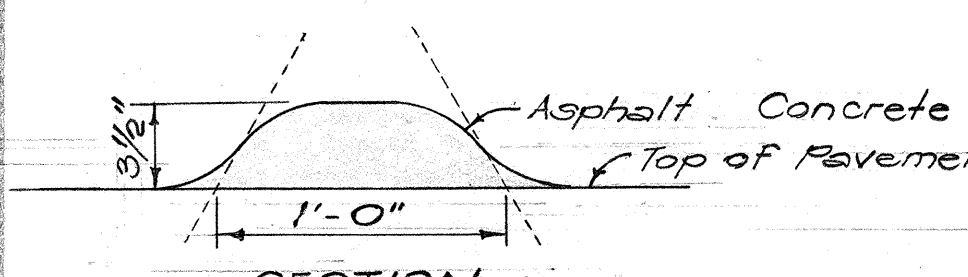
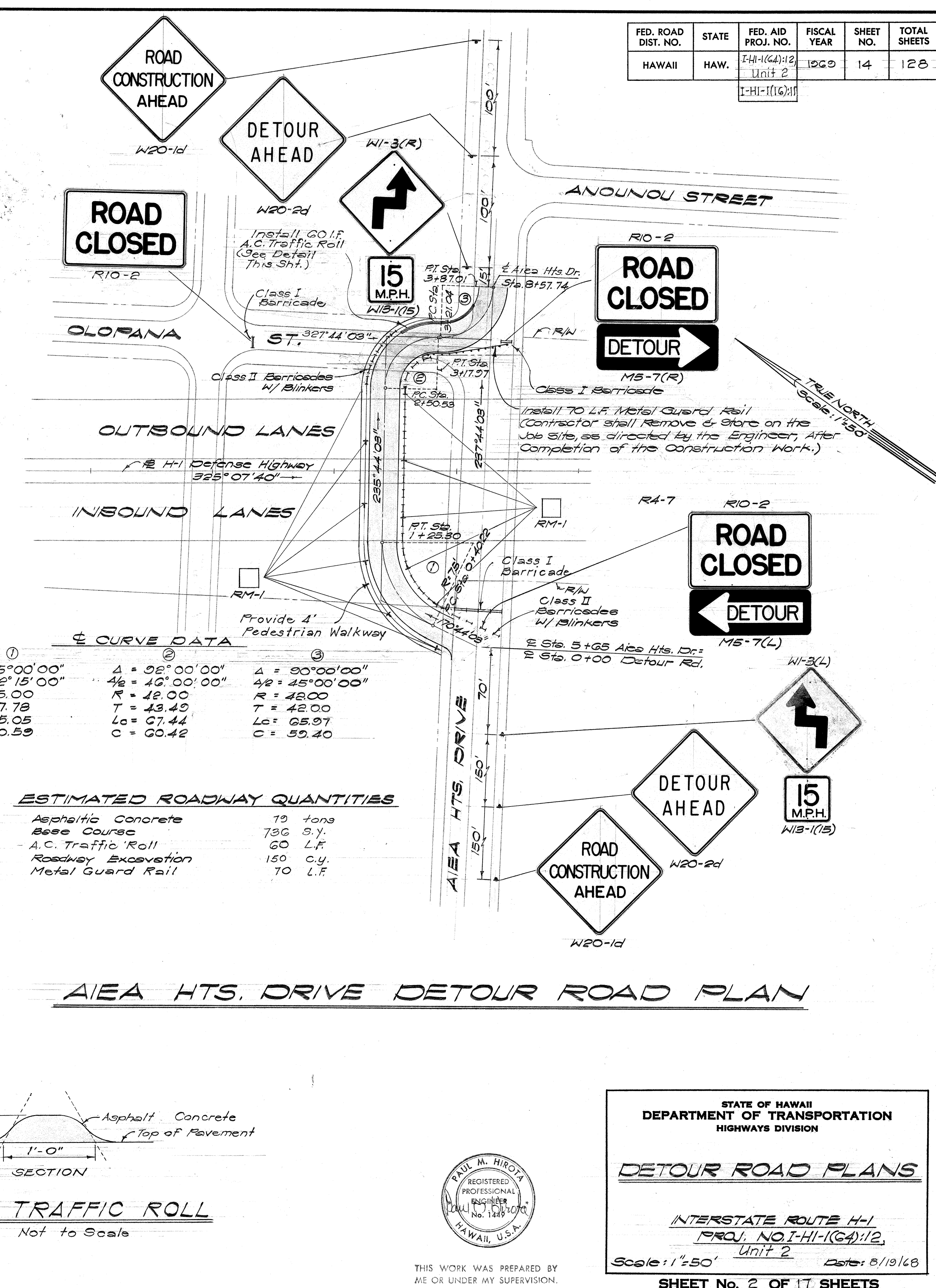
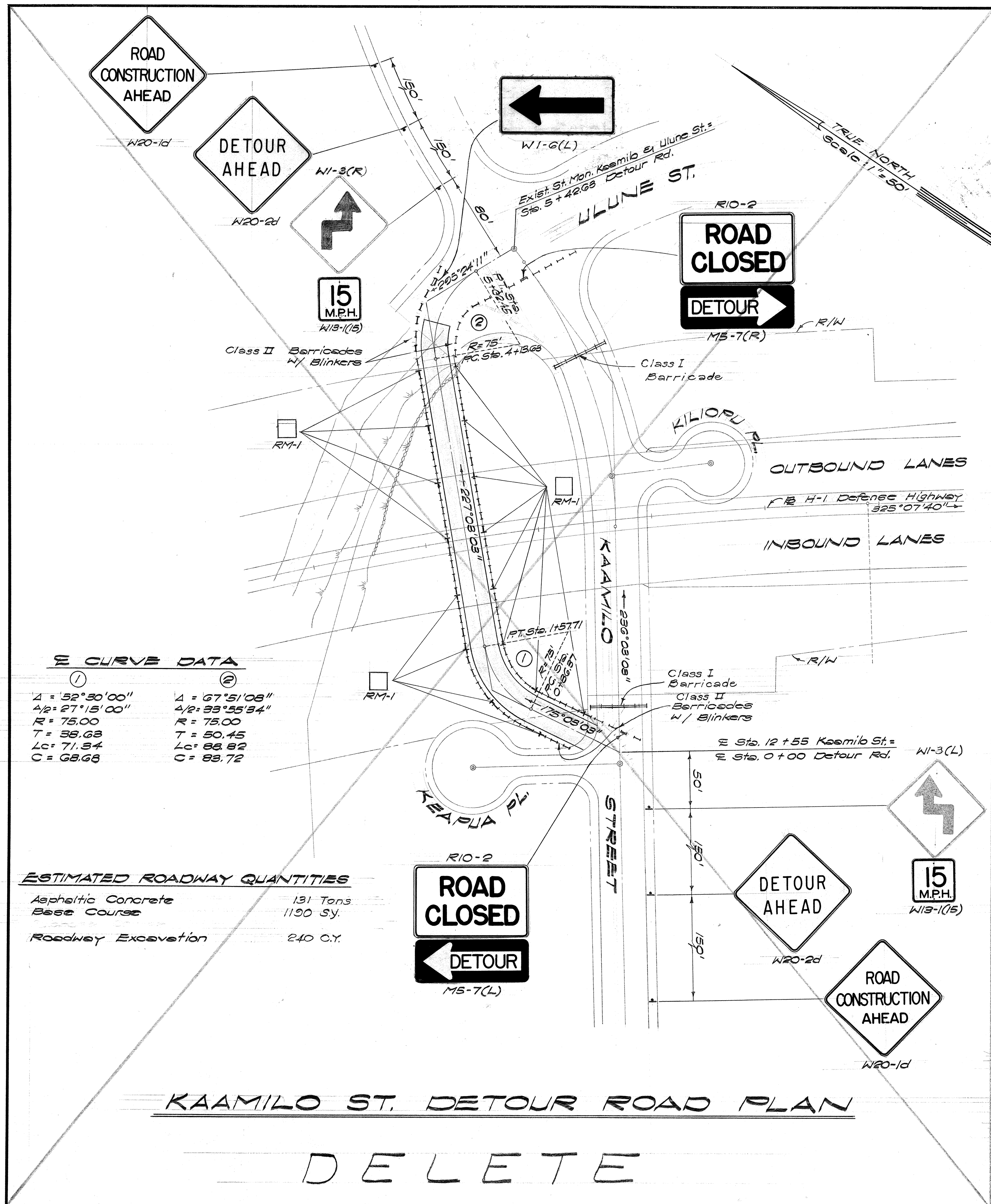
INTERSTATE ROUTE H-1
PROJ. NO. 1-HI-1(64):12,
Unit 2

Scale: 1"=50'

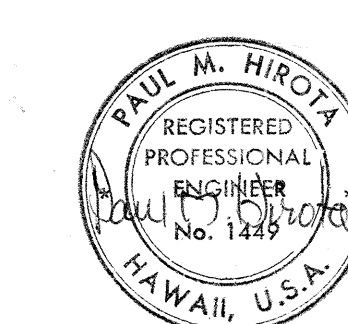
Date: 8/19/68

SHEET No. 1 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(64):12 Unit 2	1969	14	128
		I-HI-1(16):15			



A.C. TRAFFIC ROLL
Not to Scale



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

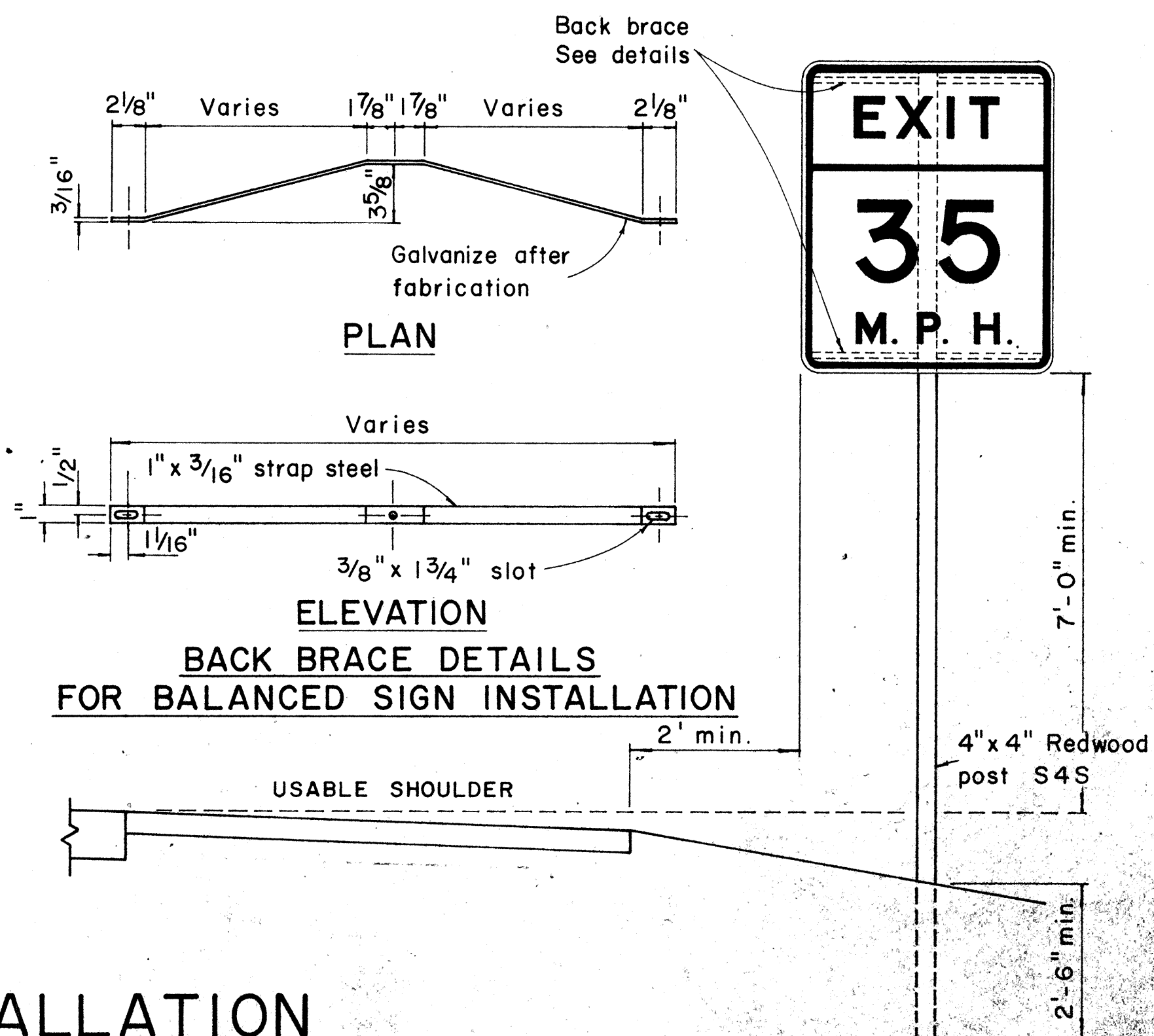
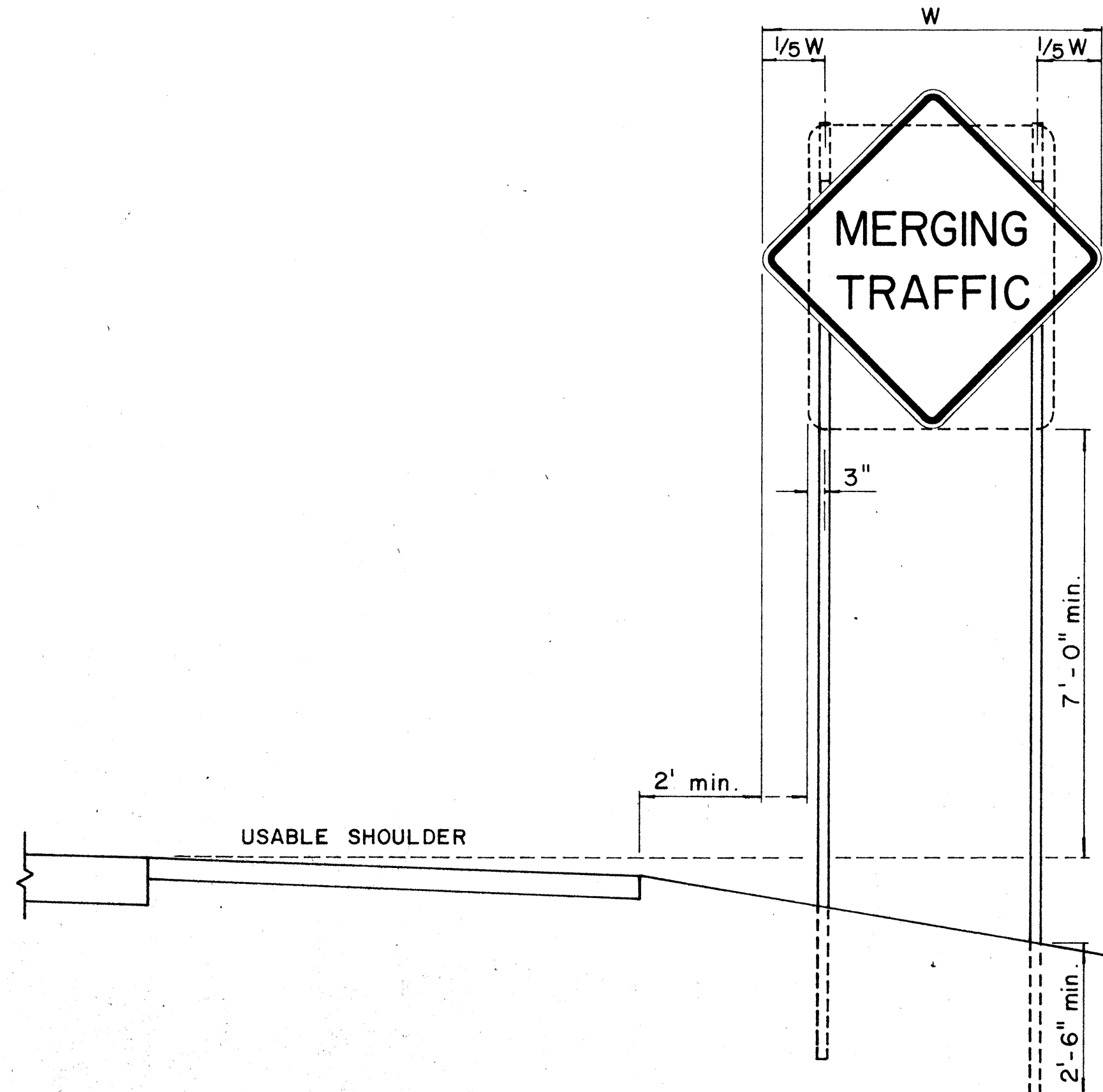
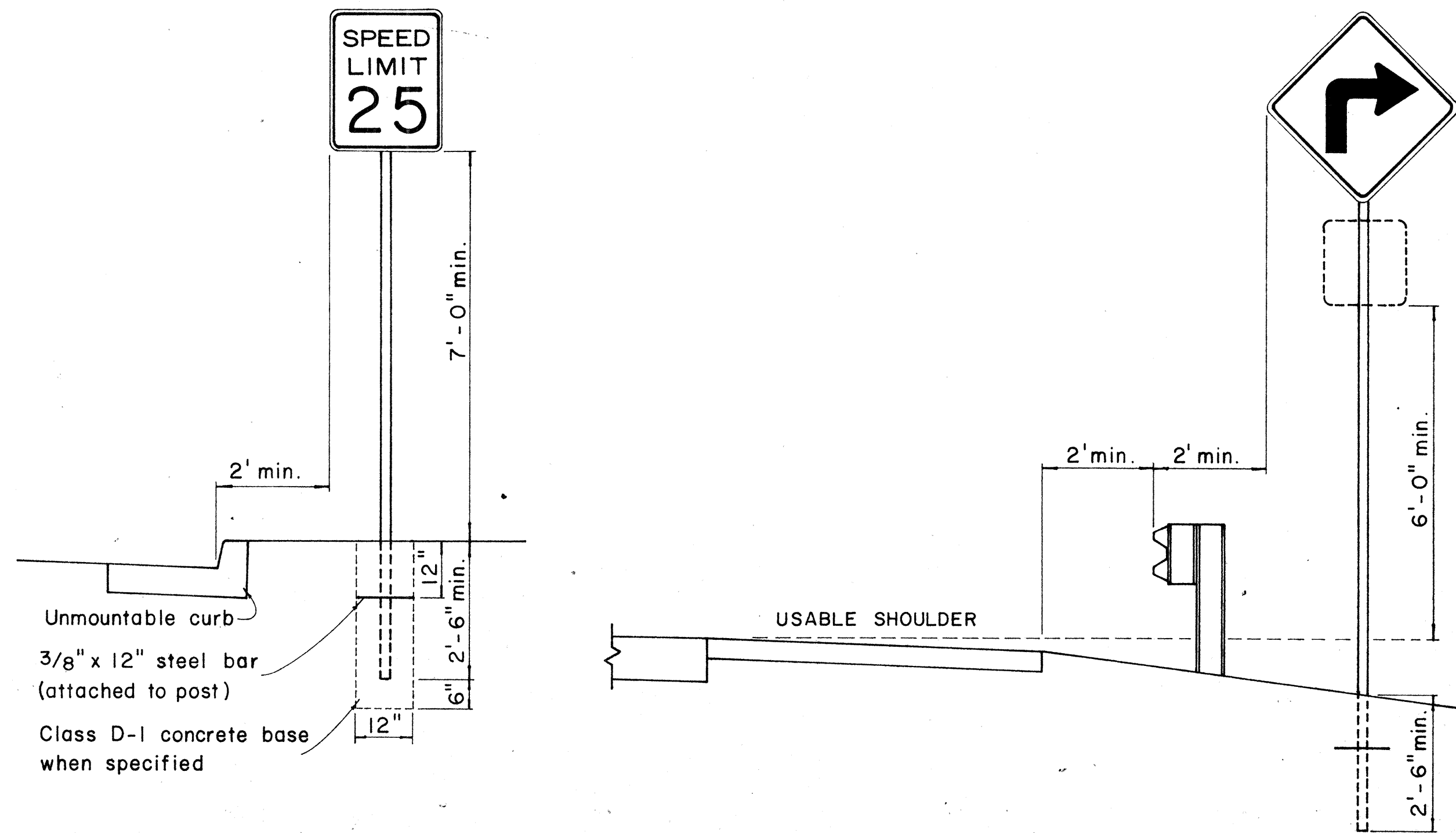
DETOUR ROAD PLANS

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(64):12
Unit 2
Scale: 1" = 50' Date: 8/1/1968

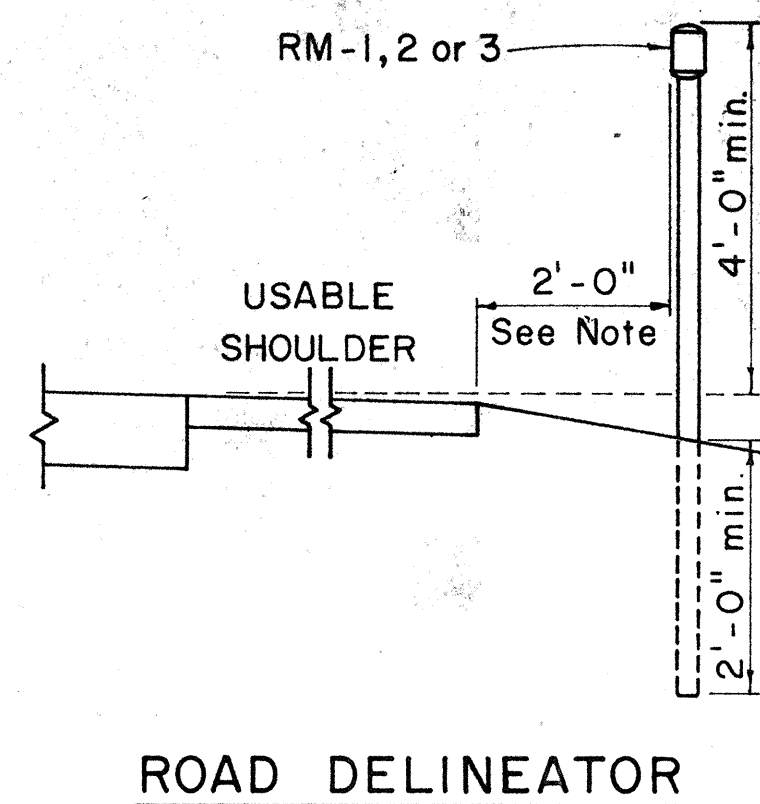
SHEET No. 2 OF 17 SHEETS

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES 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.	1-HI-1(64)-112 Unit 2 1-HI-1(10)-11	1969	16	128

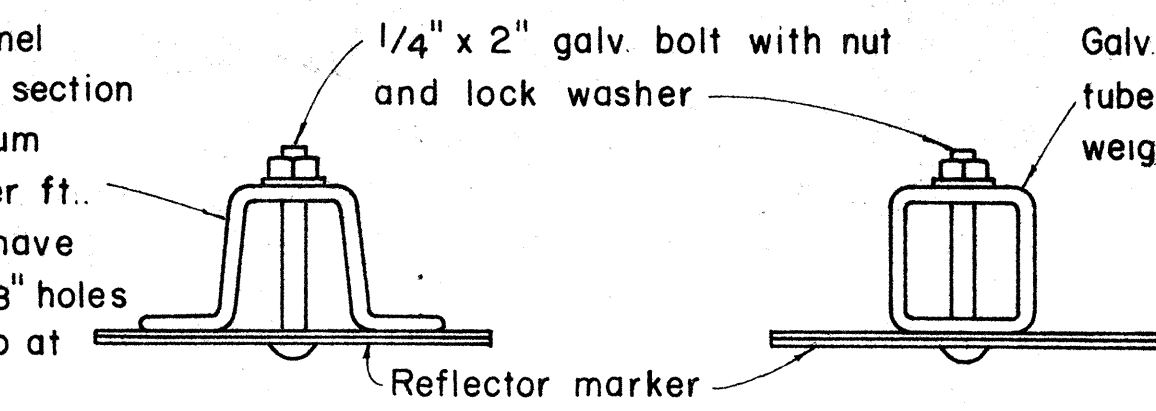


HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATION



Galv. flanged channel
1/8" x 3 1/16" rolled section
post with a minimum
weight of 2 lbs. per ft.
Upper 2 ft. shall have
a single row of 3/8" holes
centered in the web at
1" o.c.

TYPICAL SECTION OF ROAD DELINEATOR



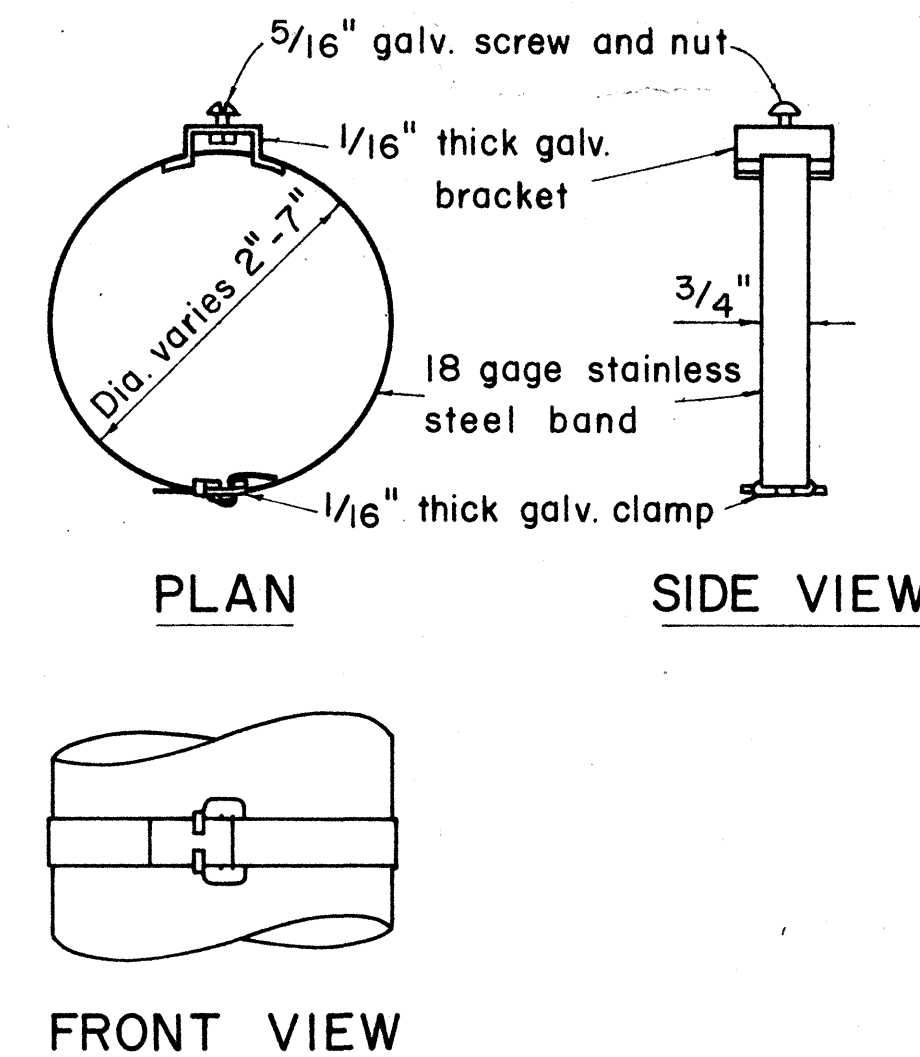
Galv. 1 1/2" x 1 1/2" square
tube post with a minimum
weight of 1.7 lbs. per ft.

1/4" x 1/2" galv.
bolt with nut
and lock washer

1'-5" x 6" x 0.063" anodized
aluminum plate with 3/8"
holes drilled as shown

Galvanized post
Finished grade

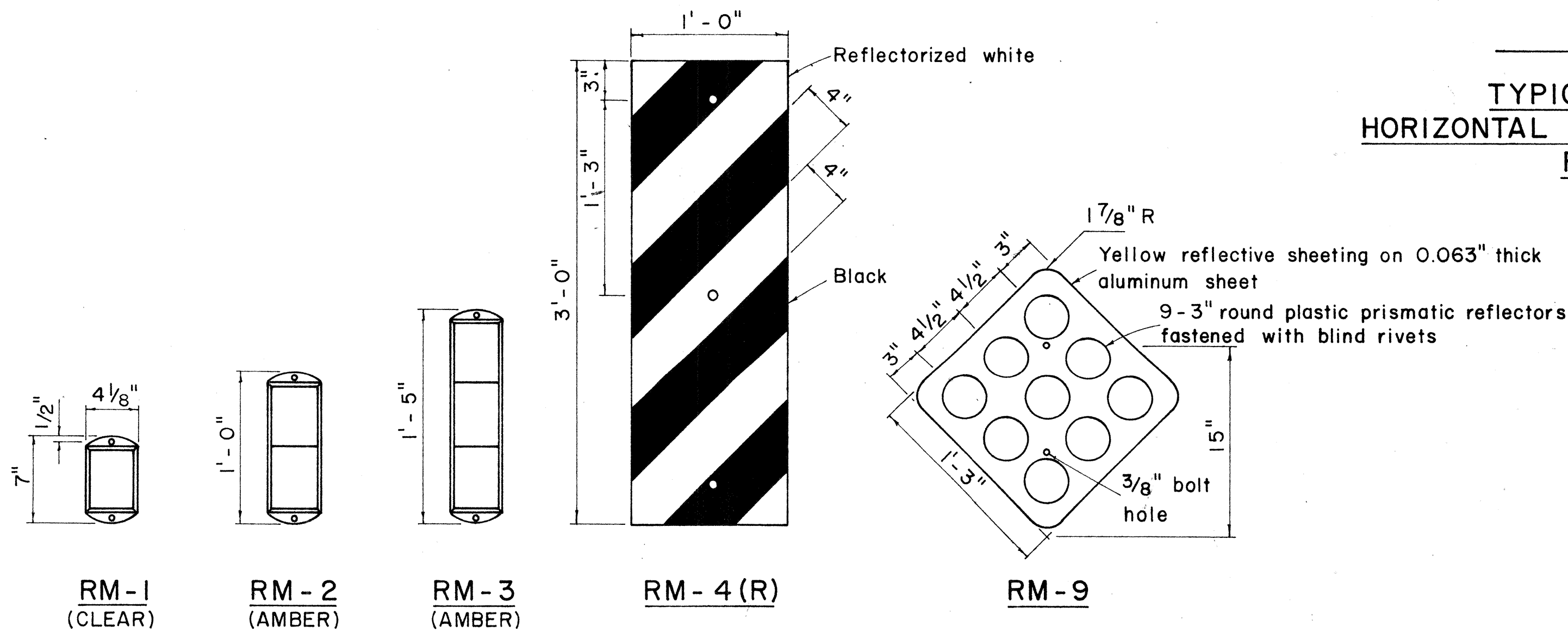
TYPICAL DETAIL
HORIZONTAL REFLECTOR MARKER
RM-3H



GENERAL NOTES:

- Sign posts shall be 2" galv. standard pipe or 2" x 2" galv. sq. tube post.
- 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.
- 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.
- Sign posts shall extend 3 1/2" above sign where required for City and County street name signs.
- 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.
- Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
- (R) or (L) indicates right or left and shall be as shown on the plans.

TYPICAL BAND BRACKET FOR MOUNTING TRAFFIC SIGNS



RM-1
(CLEAR)

RM-2
(AMBER)

RM-3
(AMBER)

RM-4 (R)

RM-9

REFLECTOR MARKERS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS MISCELLANEOUS SIGN DETAILS

Not to scale

March, 1968

SHEET No. 4 OF 17 SHEETS DT 100

16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1-(64)12 Unit 2 I-H-1-(65)11	1969	17	128

W 7-2 48" x 48"

W8-7 30" x 30"

W14-1 30" x 30"

W20-1a 48" x 48"

W20-2d 48" x 48"

W20-3b 48" x 48"

W20-4d 48" x 48"

W20-5d(L) 48" x 48"

W20-6b 48" x 48"

W20-7c 48" x 48"

W21-1 30" x 30"

W21-2 24" x 24"

W21-3 36" x 36"

W21-4 30" x 30"

W21-5 30" x 30"

W21-6 30" x 30"

W22-1 30" x 30"

W22-2 30" x 30"

W22-3 30" x 30"

W22-4 48" x 48"

W22-5 48" x 48"

G20-1(5) 60" x 36"

G20-2 60" x 24"

G20-3 42" x 18"

M5-7(L) 48" x 18"

CW-1 96" x 30"

- 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 signs shall be reflectorized unless otherwise specified.
 - All signs shall have 3/8" bolt holes drilled at appropriate locations unless otherwise noted.
 - 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
 - (R) or (L) indicates right or left and shall be as shown on the plans.
 - Number in () indicates miles and shall be as shown on the plans.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

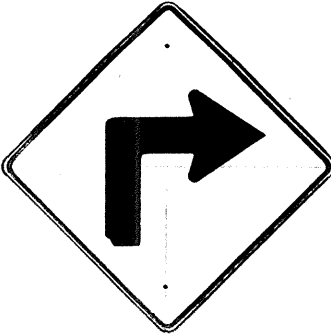
CONSTRUCTION SIGNS

NOT TO SCALE

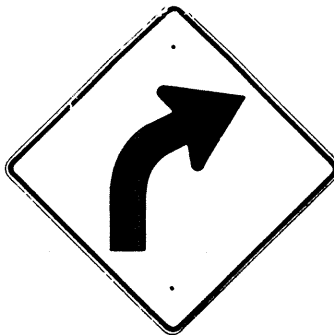
SHEET No. 5 OF 17 SHEETS

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

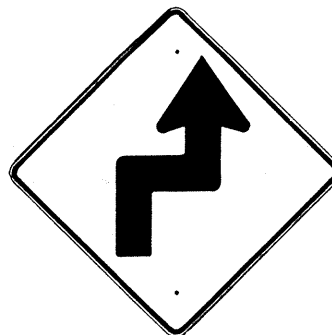
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(GA)12 Unit 2 I-HI-1(G)11	1969	19	128



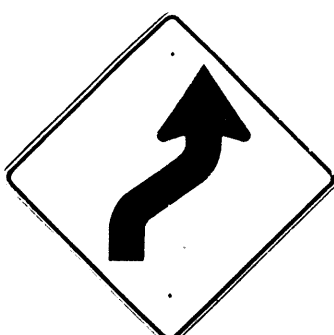
WI-1(R) 30" x 30"



WI-2(R) 30" x 30"



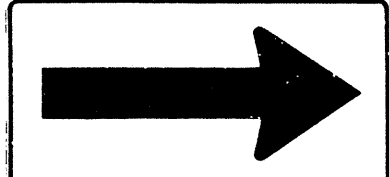
WI-3(R) 30" x 30"



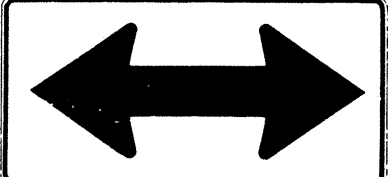
WI-4(R) 30" x 30"



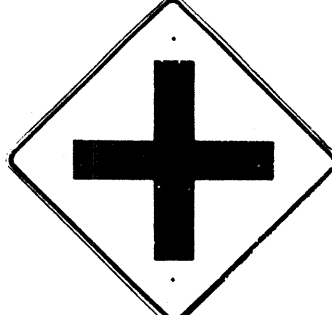
WI-5(R) 30" x 30"



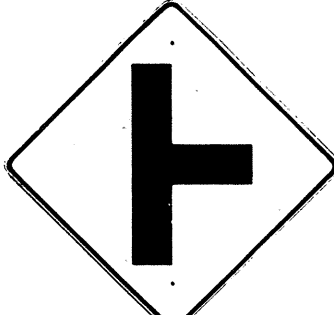
WI-6 48" x 24"



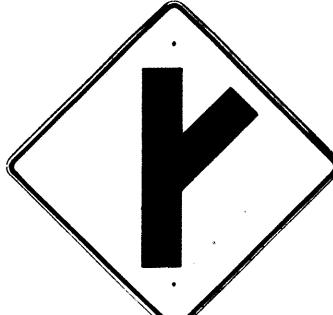
WI-7 48" x 24"



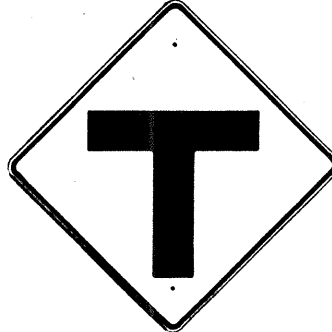
W2-1 30" x 30"



W2-2 30" x 30"



W2-3(R) 30" x 30"



W2-4 30" x 30"



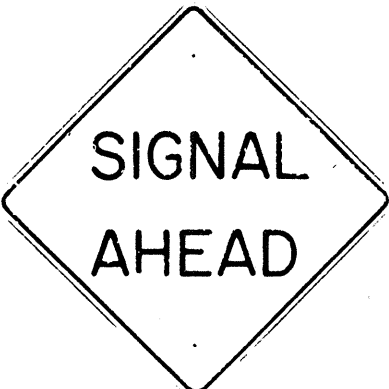
W2-5 30" x 30"



W3-1 30" x 30"



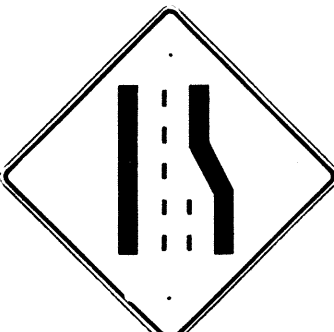
W3-2 30" x 30"



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"



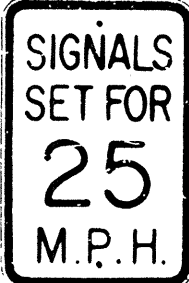
W11-5 30" x 30"



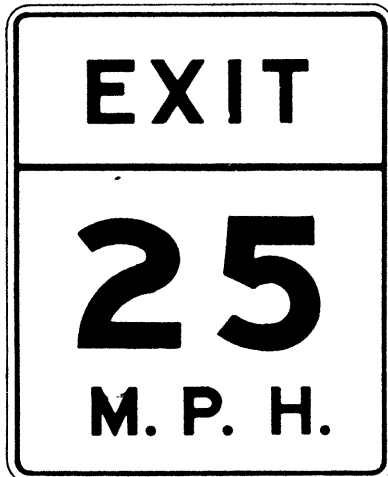
W12-2 36" x 36"



W13-1(35) 18" x 18"
W13-1(35)-E 24" x 24"

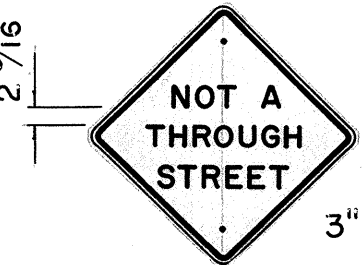


W13-2(25) 12" x 18"



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.



W13-4 24" x 24"

3" Series D

REVISED: September 26, 1967

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

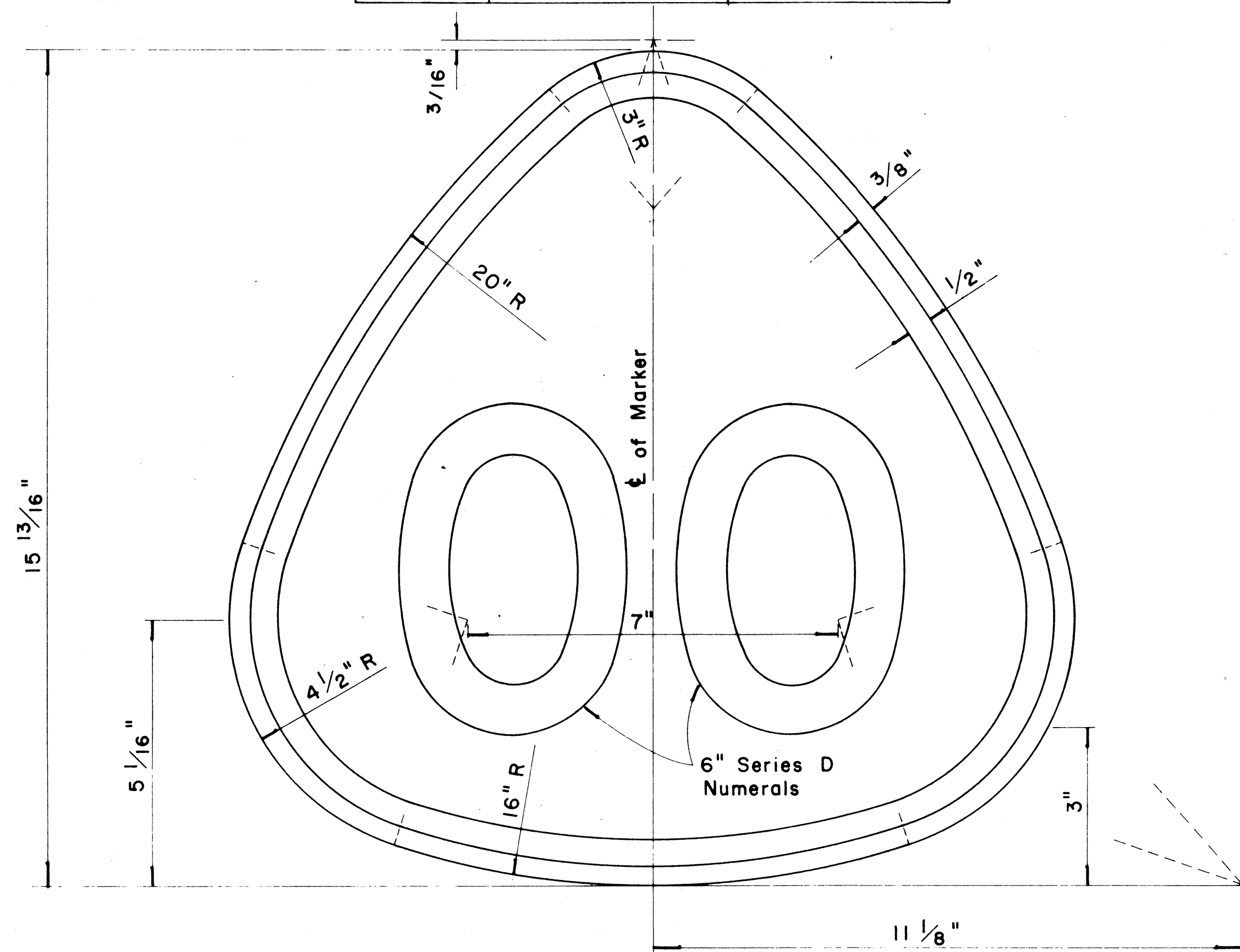
STANDARD DETAILS

WARNING SIGNS

NOT TO SCALE

SHEET No. 7 OF 17 SHEETS

Shield Size	Multiply Dimensions by	Numeral Size
16"	1	6" Series D
21"	1.3	8" Series D
32"	2.0	12" Series D
42"	2.63	15" Series D
48"	3	18" Series D



STATE ROUTE MARKER
FOR
DESTINATION & EXPRESSWAY SIGNS

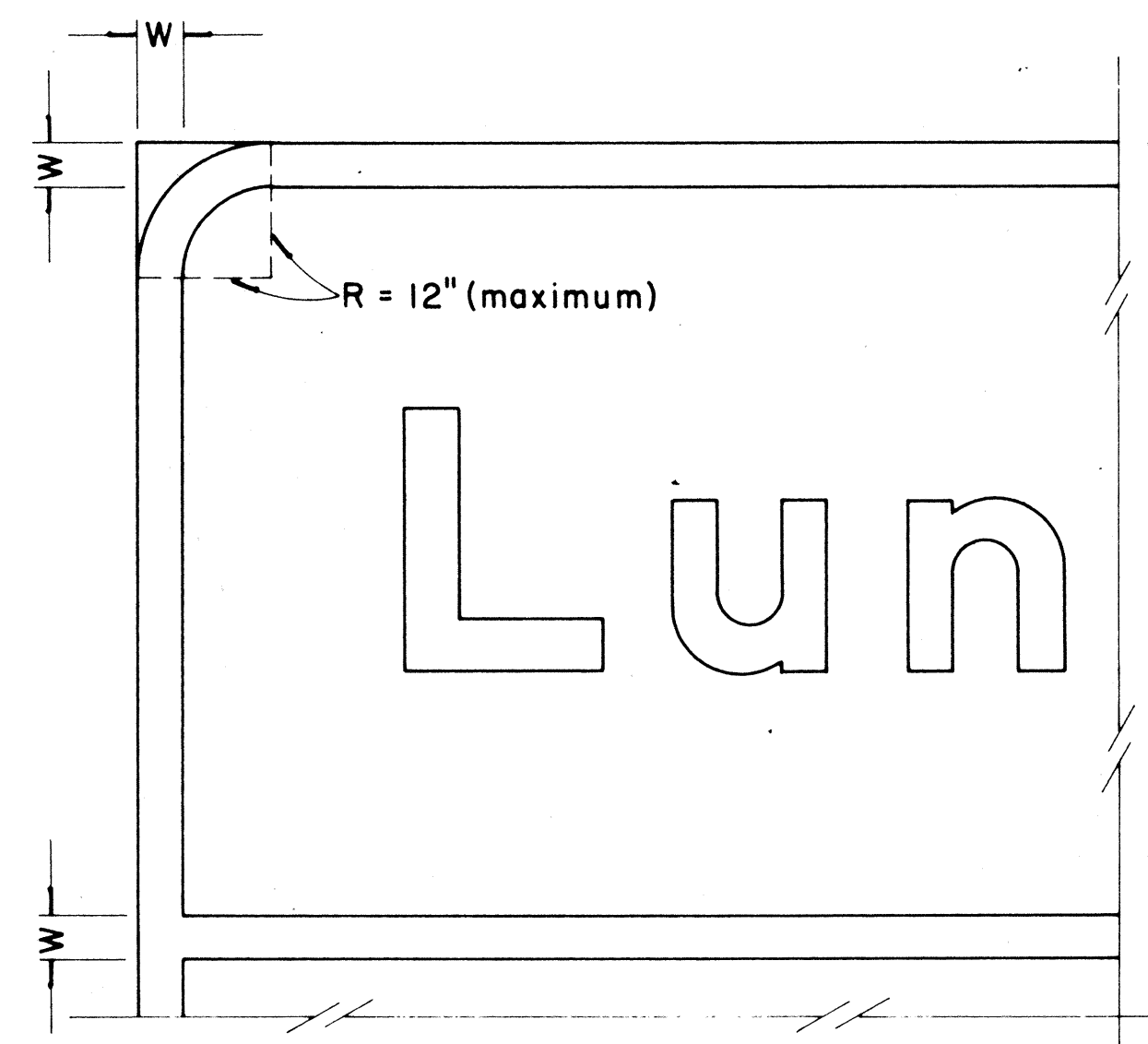
Scale: Half Size

NOTE:

1. State Route Markers on Destination and 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.

RADI FOR SIGNS

Least Dimension of Sign	W	R
2' - 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"



BORDER DETAIL
FOR
DESTINATION & EXPRESSWAY SIGNS

No Scale

NOTE:

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

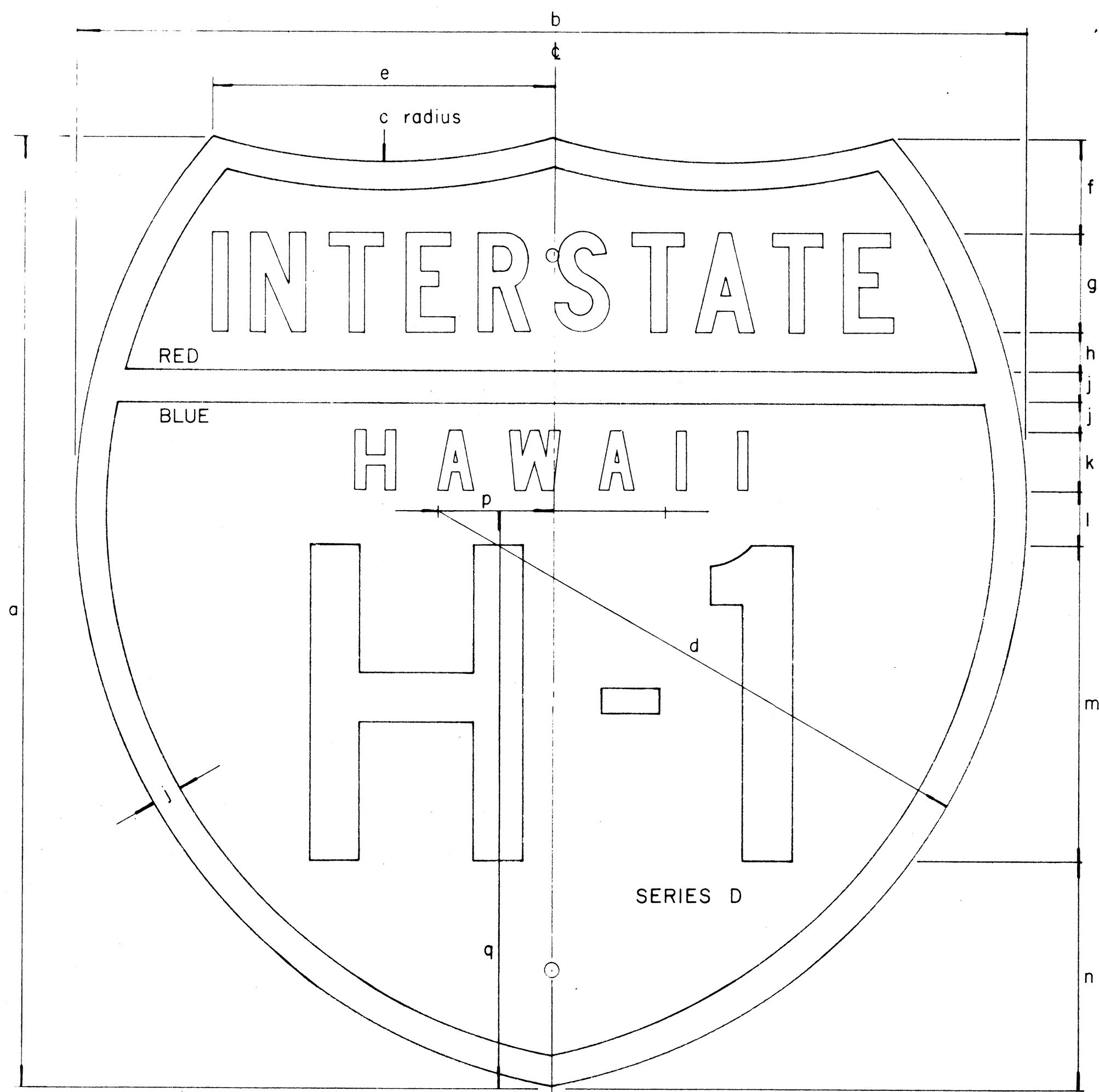
REVISED: Nov. 29, 1967

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DESTINATION & EXPRESSWAY SIGNS
STATE ROUTE MARKER
AND
BORDER DETAIL

Scale: As Shown

SHEET No. 8 OF 17 SHEETS

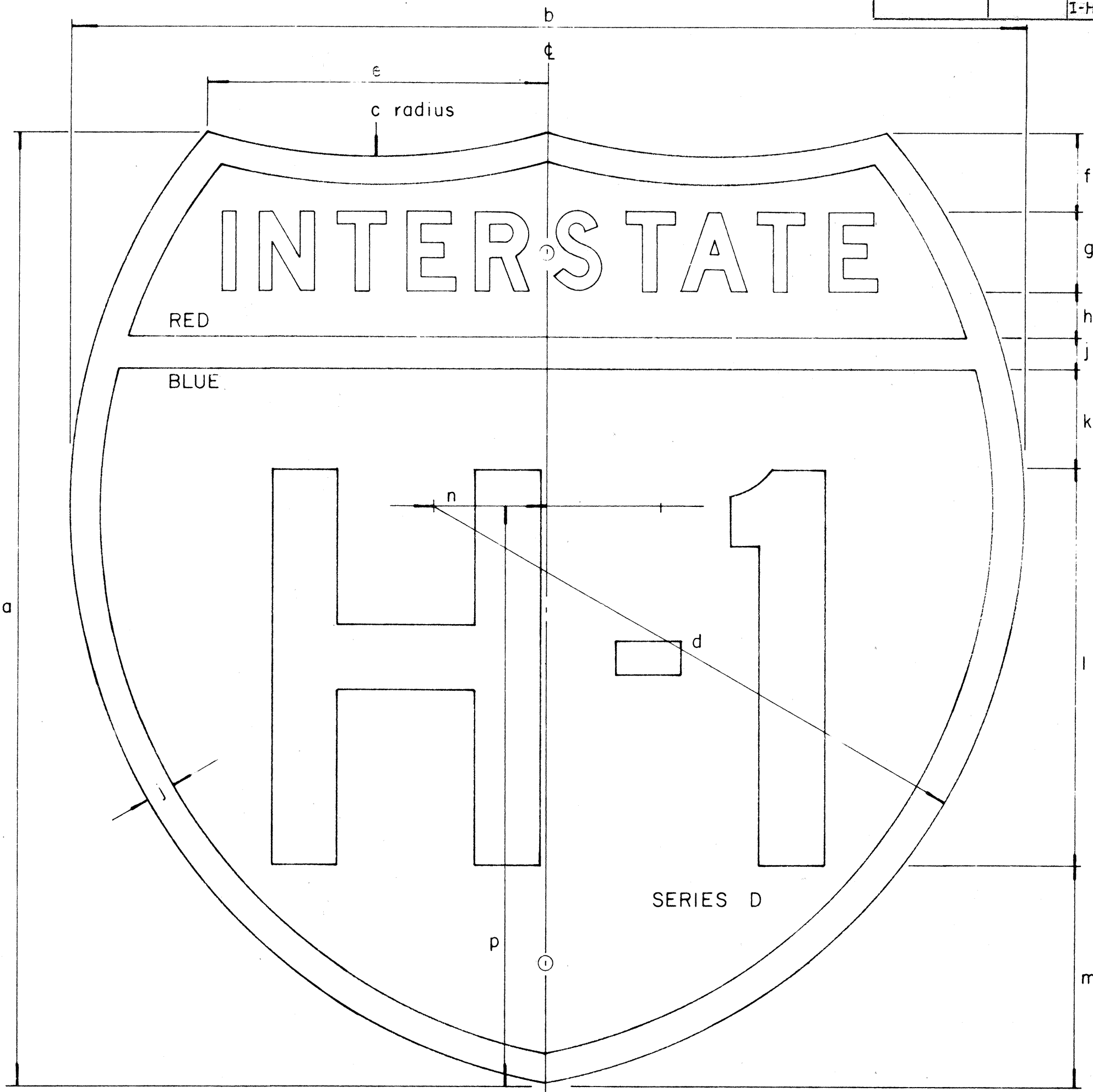
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(64)112 Unit 2 I-HI-1(10)11	1969	21	128



INTERSTATE ROUTE MARKER
IM-1()

INTERSTATE SHIELDS - INDEPENDENT USE

()	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	12 5/32	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



INTERSTATE ROUTE MARKER
IM-2()

INTERSTATE SHIELDS ON GUIDE SIGNS

()	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

GENERAL NOTES

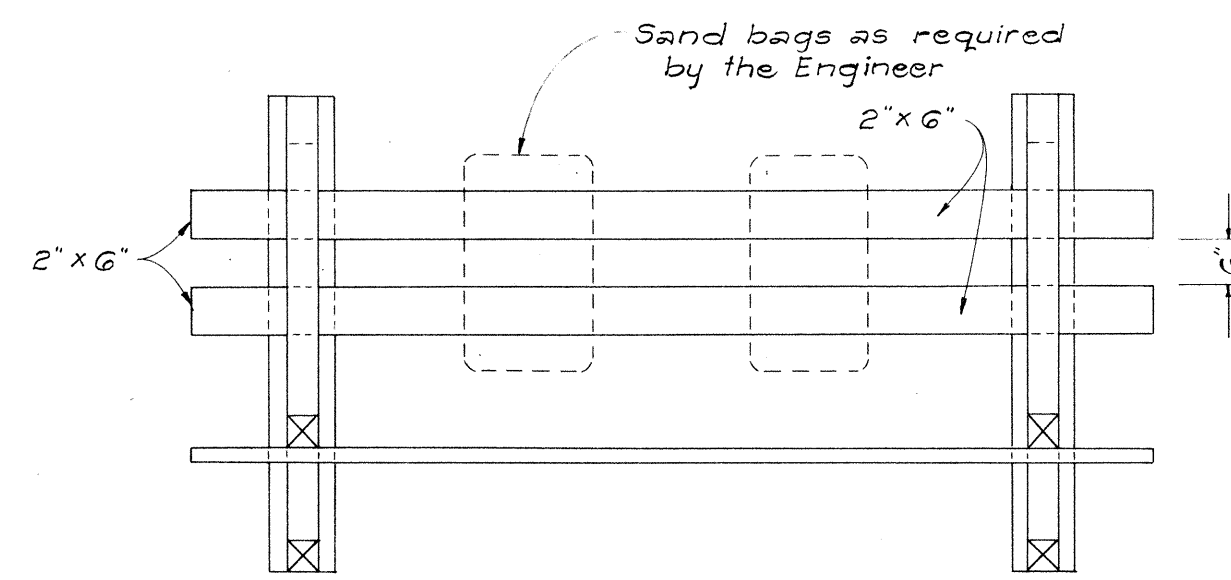
- The shape, dimensions, symbols, wording, lettering, color and reflectorizing of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June, 1961 and the BPR manual "Standard Highway Signs," dated September, 1961, unless otherwise specified.
- 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.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

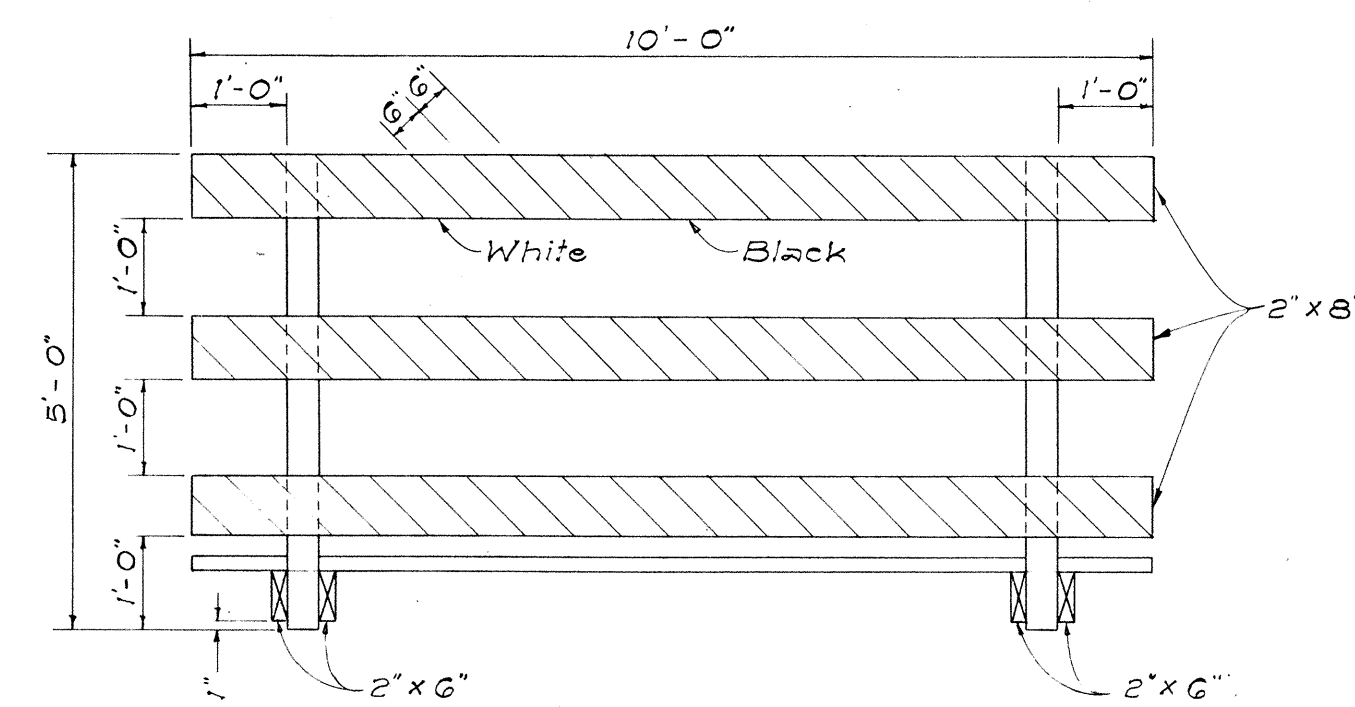
STANDARD DETAILS
INTERSTATE ROUTE MARKERS

SHEET No. 21 OF 17 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
QUANTITIES BY	
NO.	

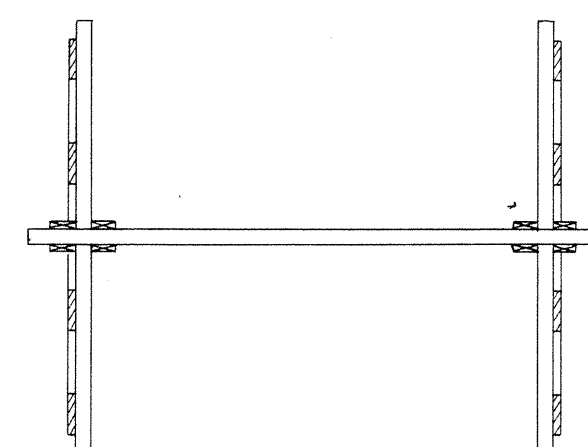


PLAN VIEW

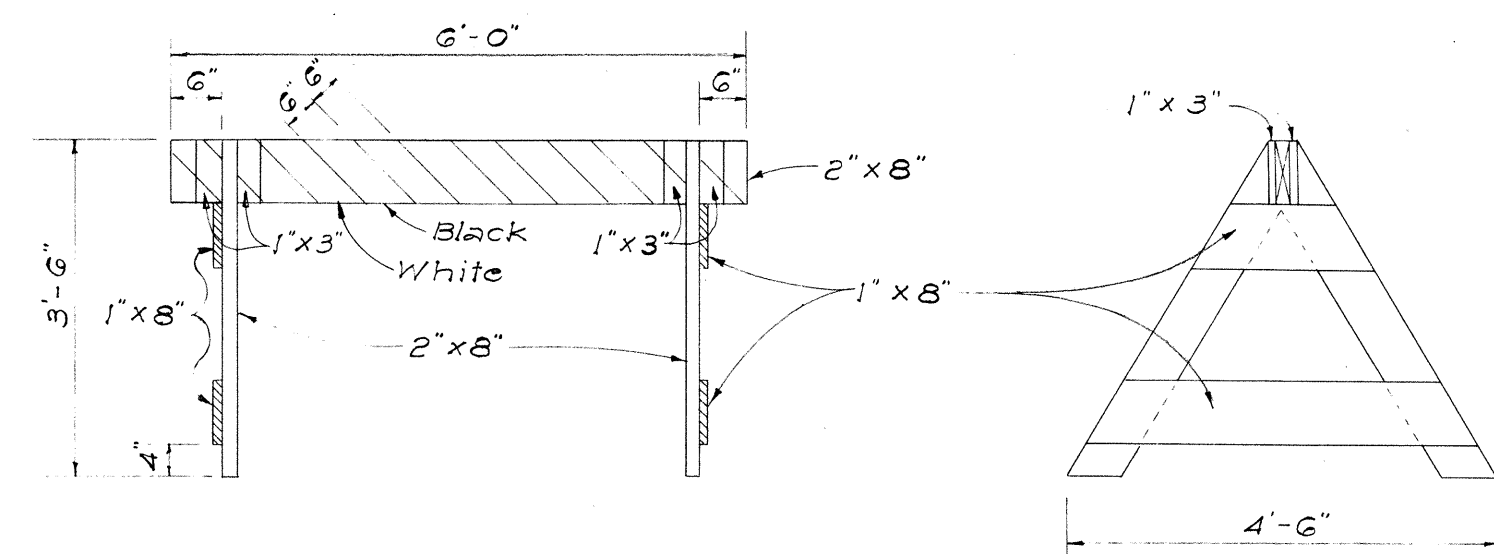


FRONT VIEW

CLASS I BARRICADE



PLAN VIEW

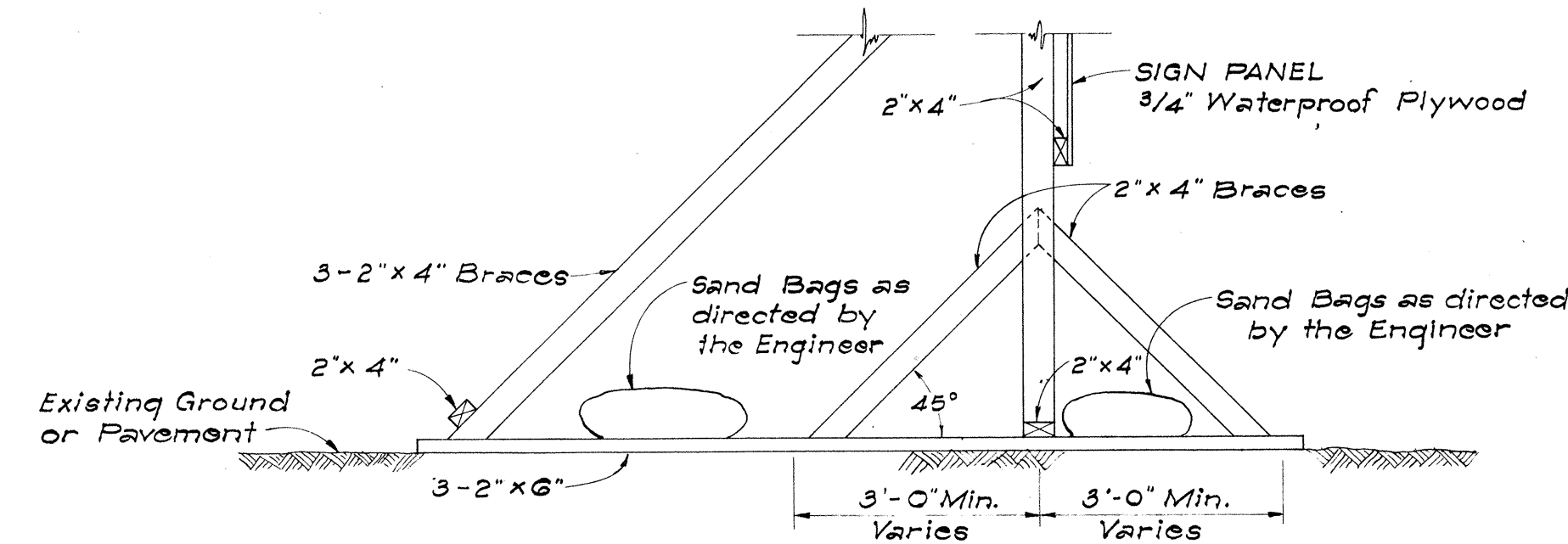


FRONT VIEW

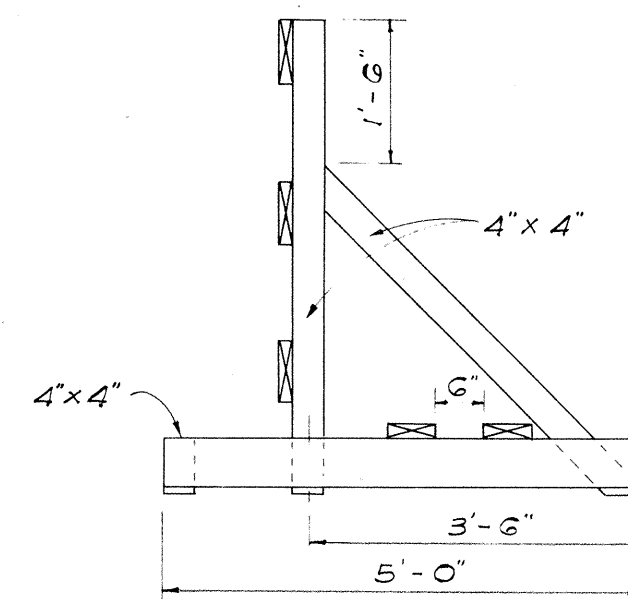
END VIEW

CLASS II BARRICADE

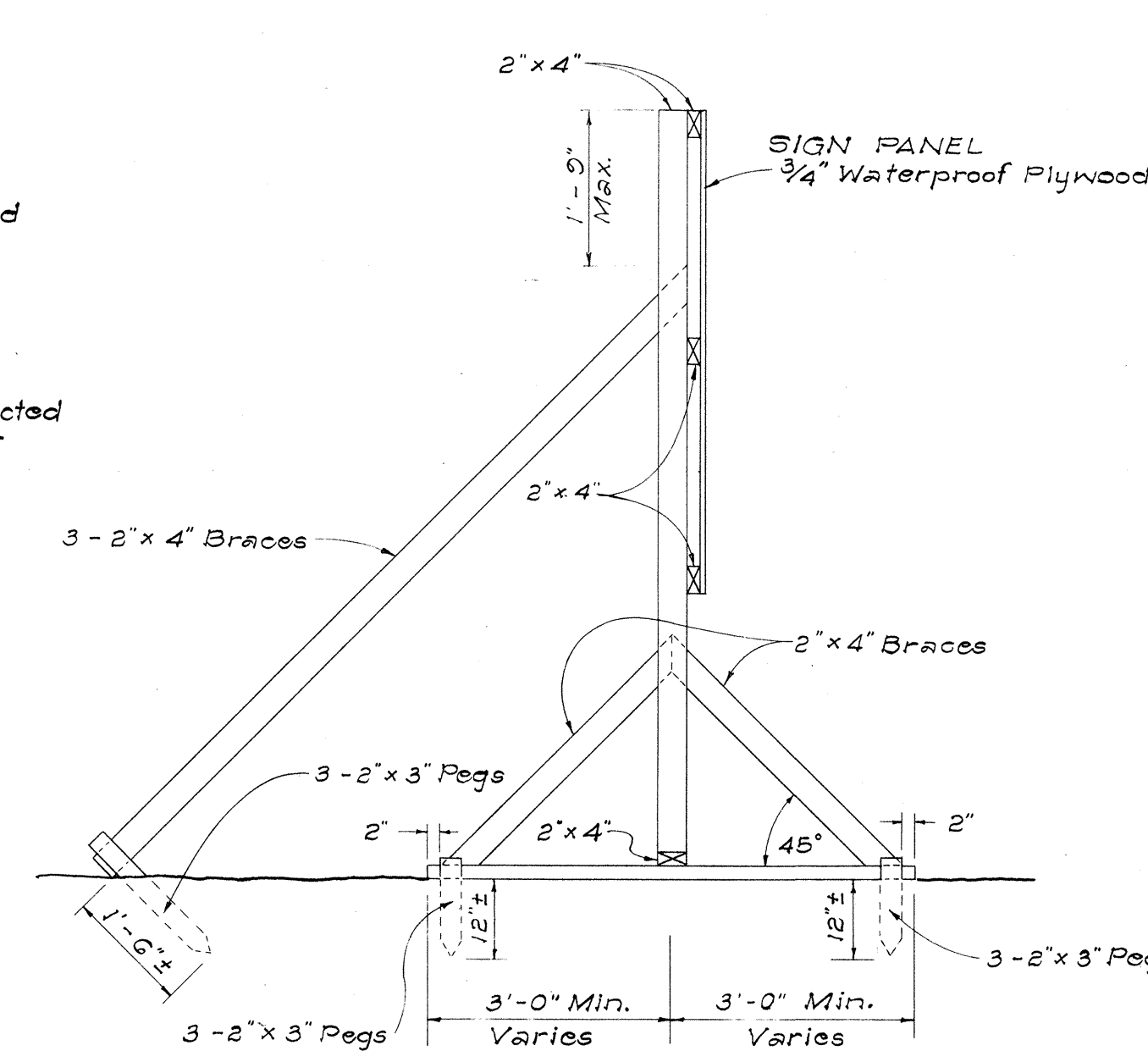
Scale: 1/2" = 1'-0"



SIDE VIEW
(SIGN FRAME WEIGHTED DOWN)



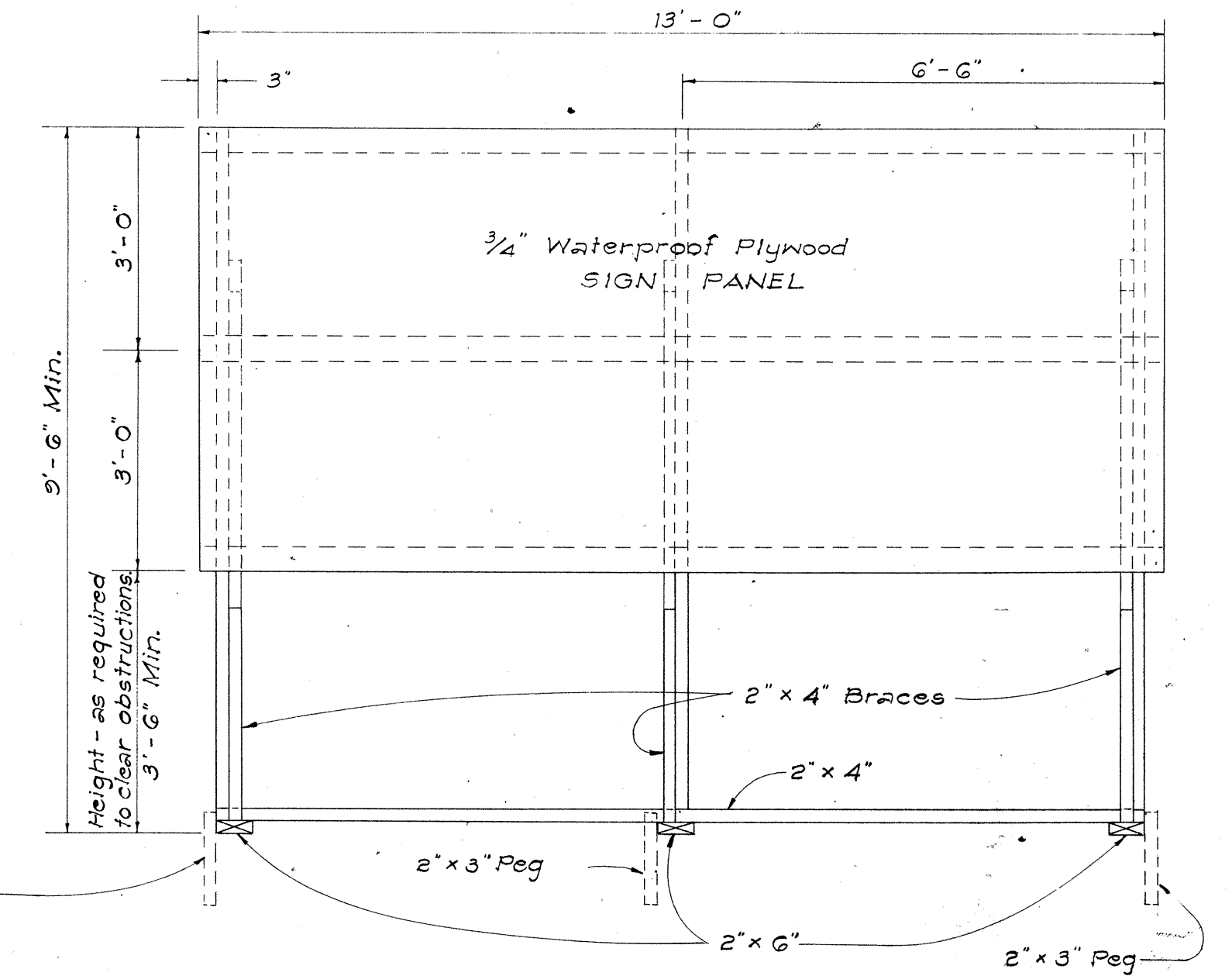
END VIEW



SIDE VIEW
(SIGN FRAME ANCHORED IN GROUND)

ELEVATIONS

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



FRONT VIEW

NOTES:

- A. CONSTRUCTION IDENTIFICATION SIGNS**
- The sign legend shall be black on white background except for the Interstate Route marker which shall be as shown on the plan.
 - The Contractor shall construct, install and maintain the project signs at the locations shown on the Plans and as ordered by the Engineer.
 - 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.
 - The Contractor shall fill in the proper numerals in place of ciphers as ordered by the Engineer.
- B. WOOD BARRICADES**
- The Contractor shall construct, install and maintain the wood barricades at the locations shown on the Plans and as ordered by the Engineer.
 - 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.

YOUR HIGHWAY TAXES AT WORK

FEDERAL HIGHWAY
TRUST FUNDS
\$ 0,000,000
U.S. DEPT. OF TRANSPORTATION
FEDERAL HIGHWAY ADMIN.
Bureau of Public Roads

STATE HIGHWAY
FUNDS
\$ 000,000
HAWAII STATE
DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

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

INTERSTATE SYSTEM CONSTRUCTION IDENTIFICATION SIGN

Scale: As Shown

REVISED: February 25, 1969
REVISED: October 2, 1967

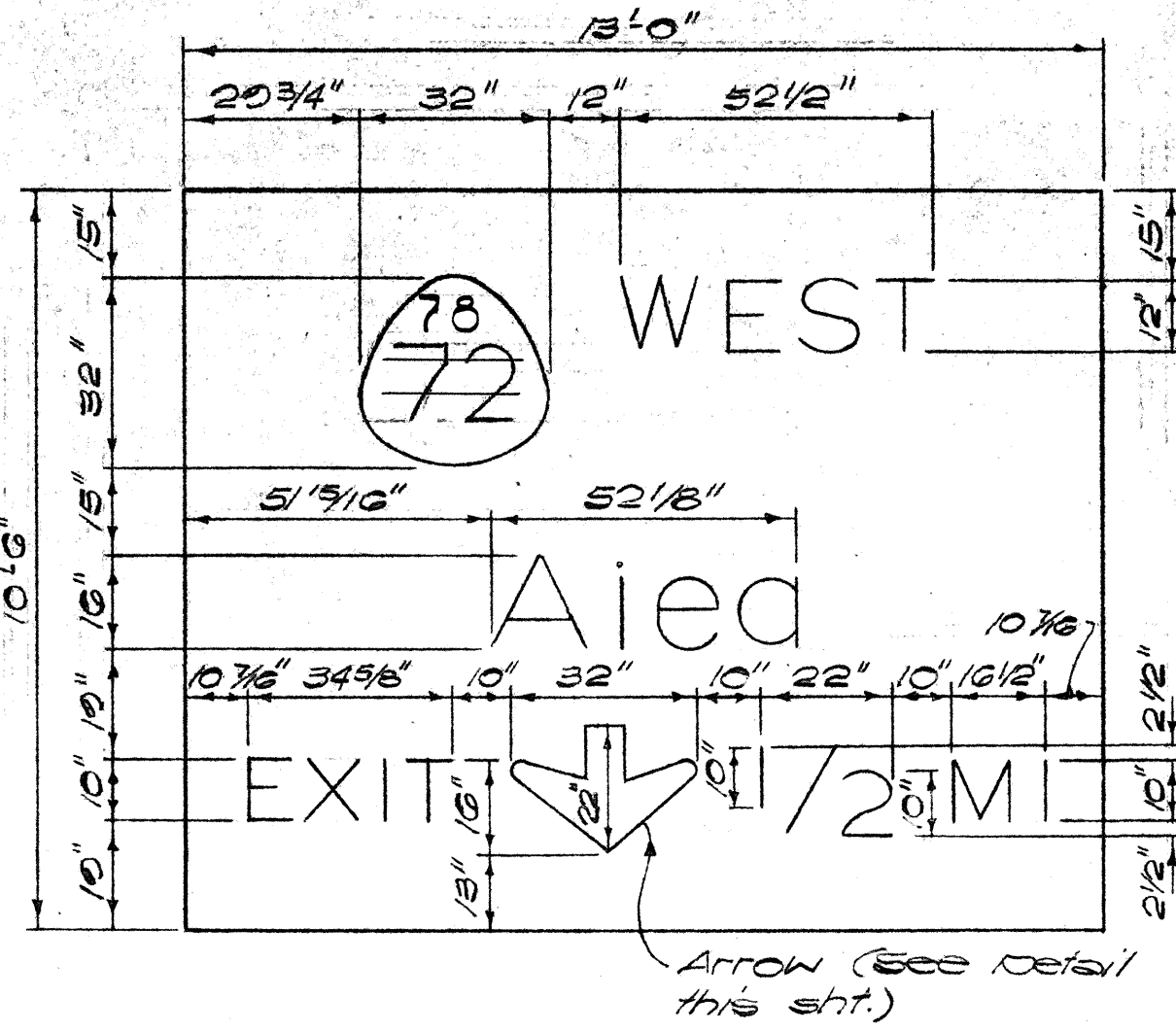
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS CONSTRUCTION IDENTIFICATION SIGN AND WOOD BARRICADES

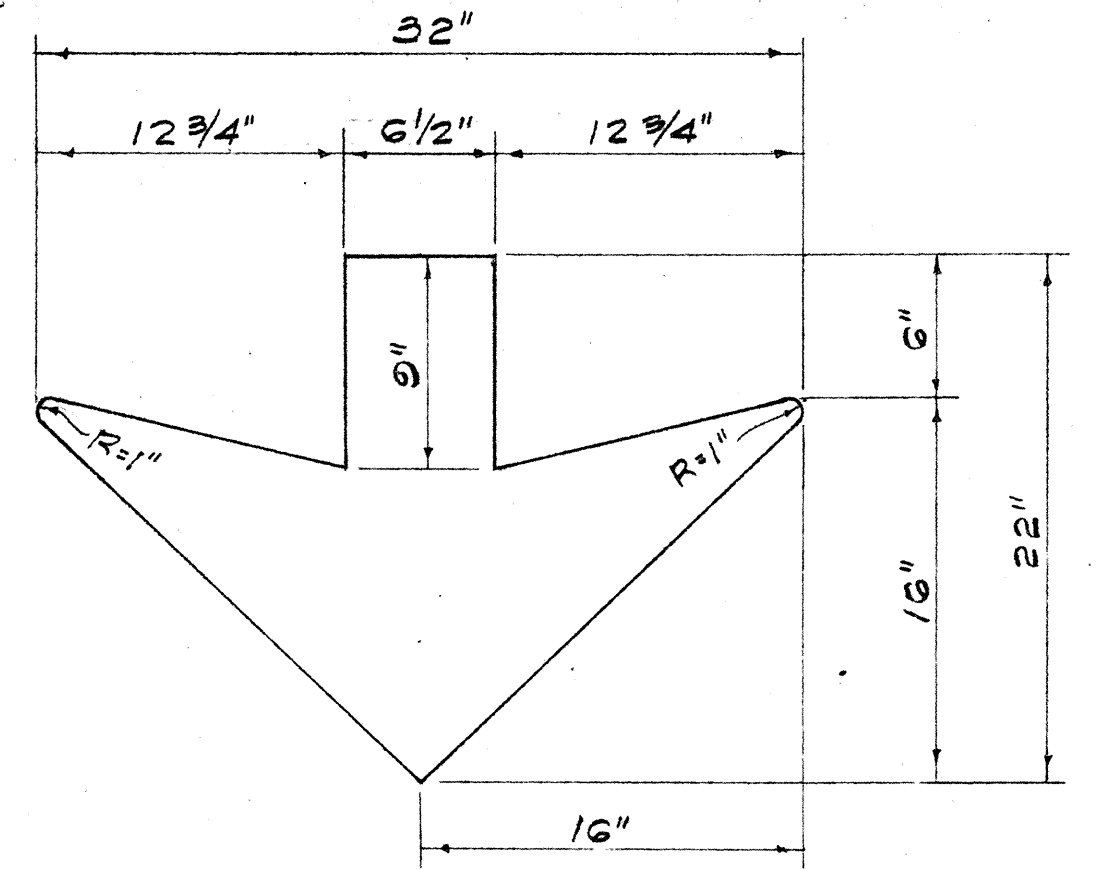
SCALE: As Shown DATE:

SHEET No. 10 OF 17 SHEETS

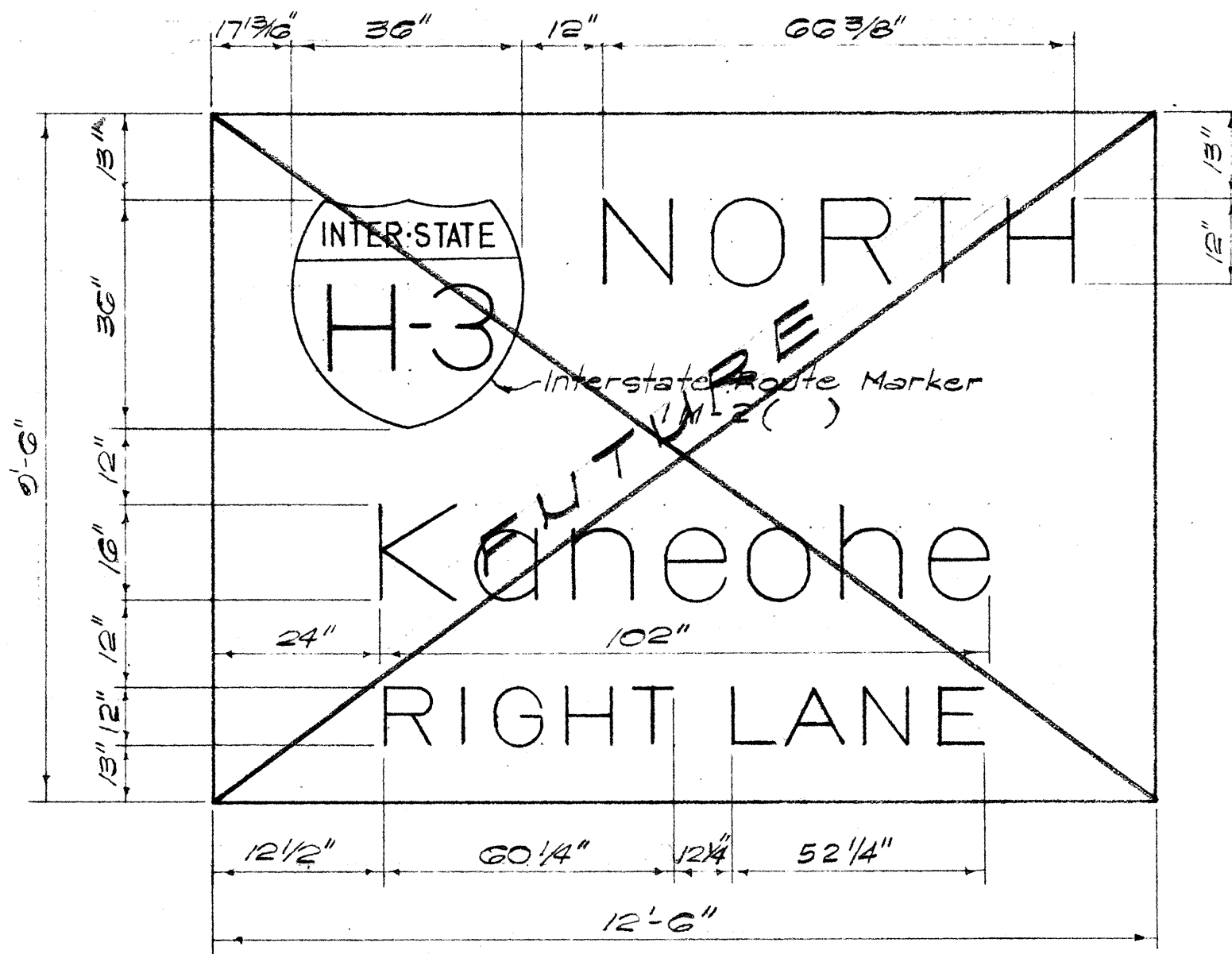
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(G4):12, Unit 2	1969	23	128
		I-HI-1(G4):11			



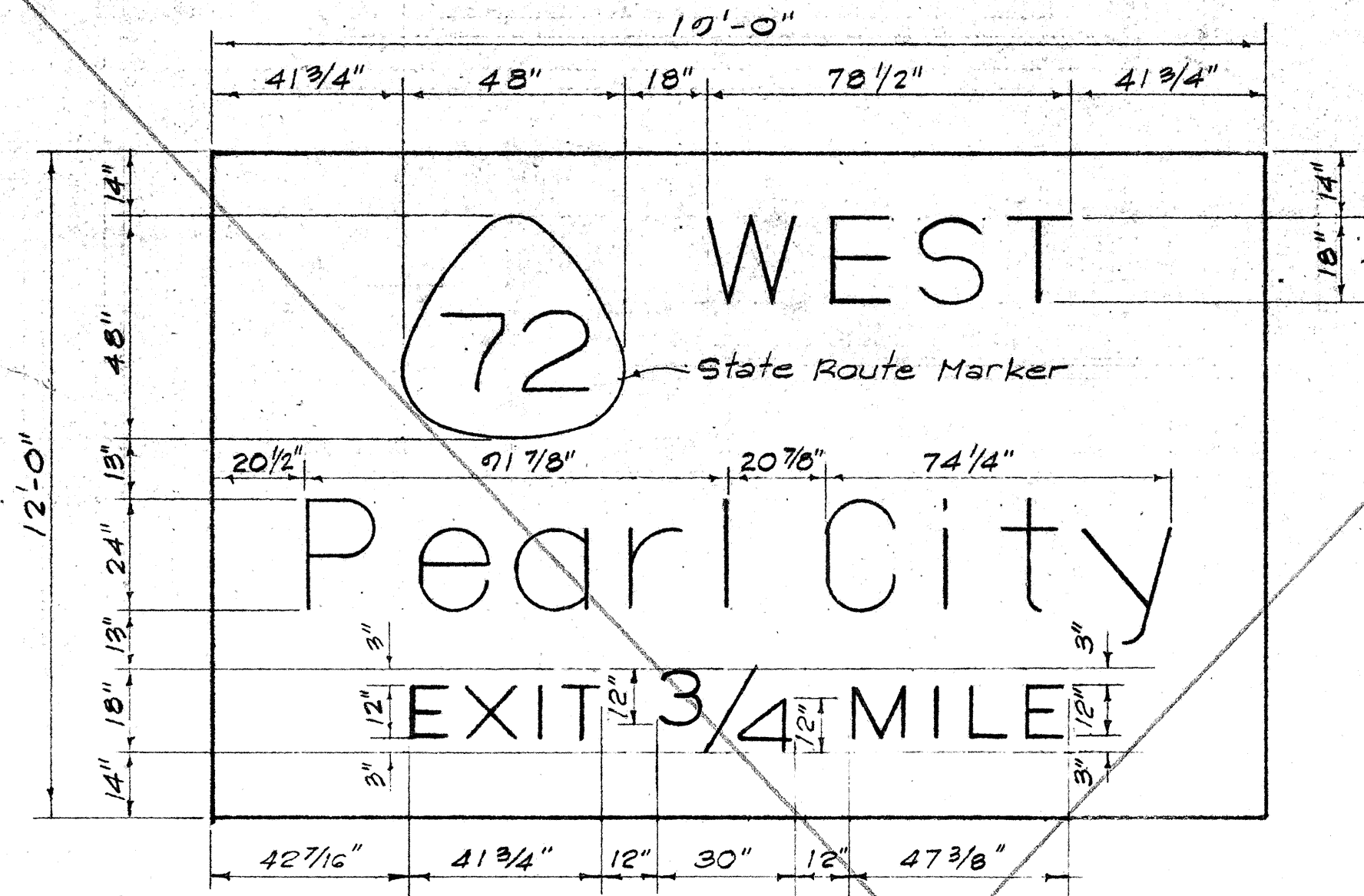
SIGN E-5
Scale: 3/8"=1'-0"



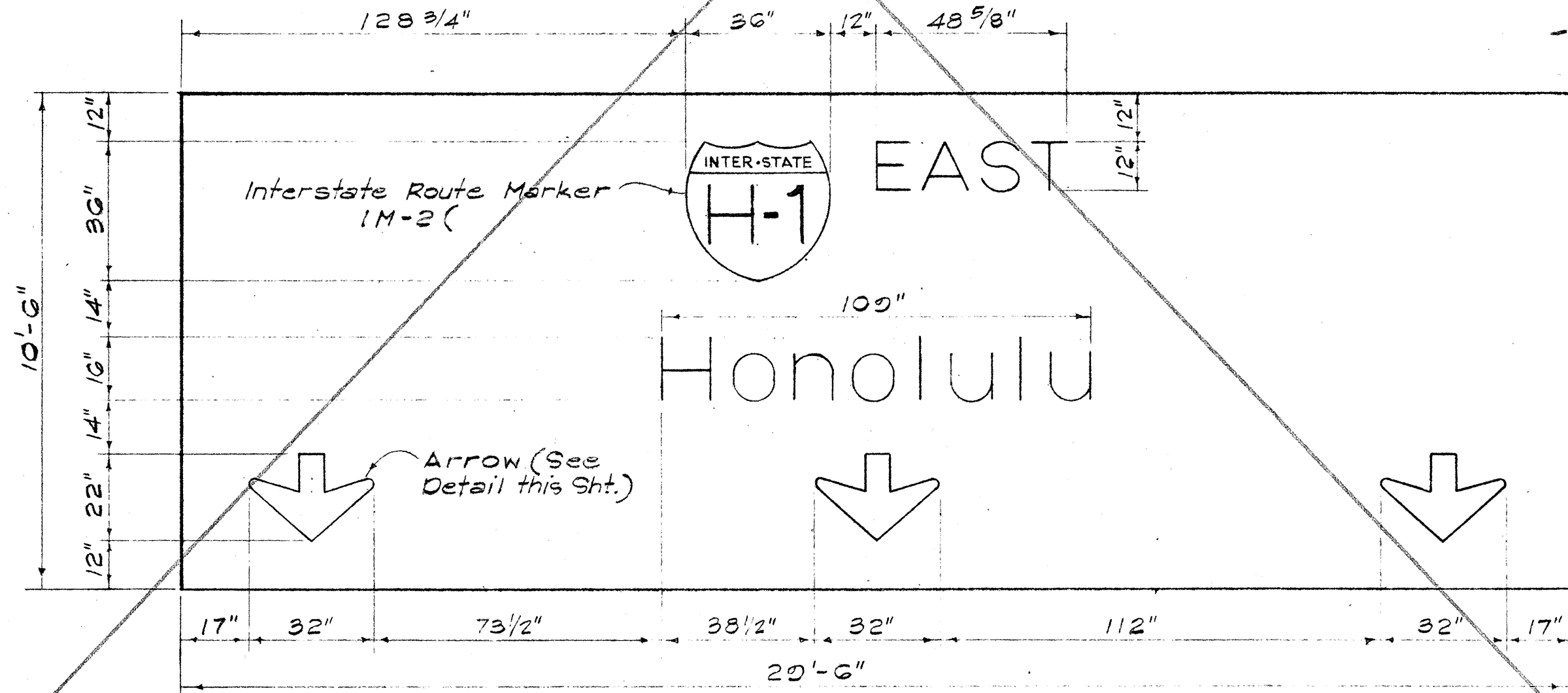
TYPICAL ARROW DETAIL
Scale: 1 1/2"=1'-0"



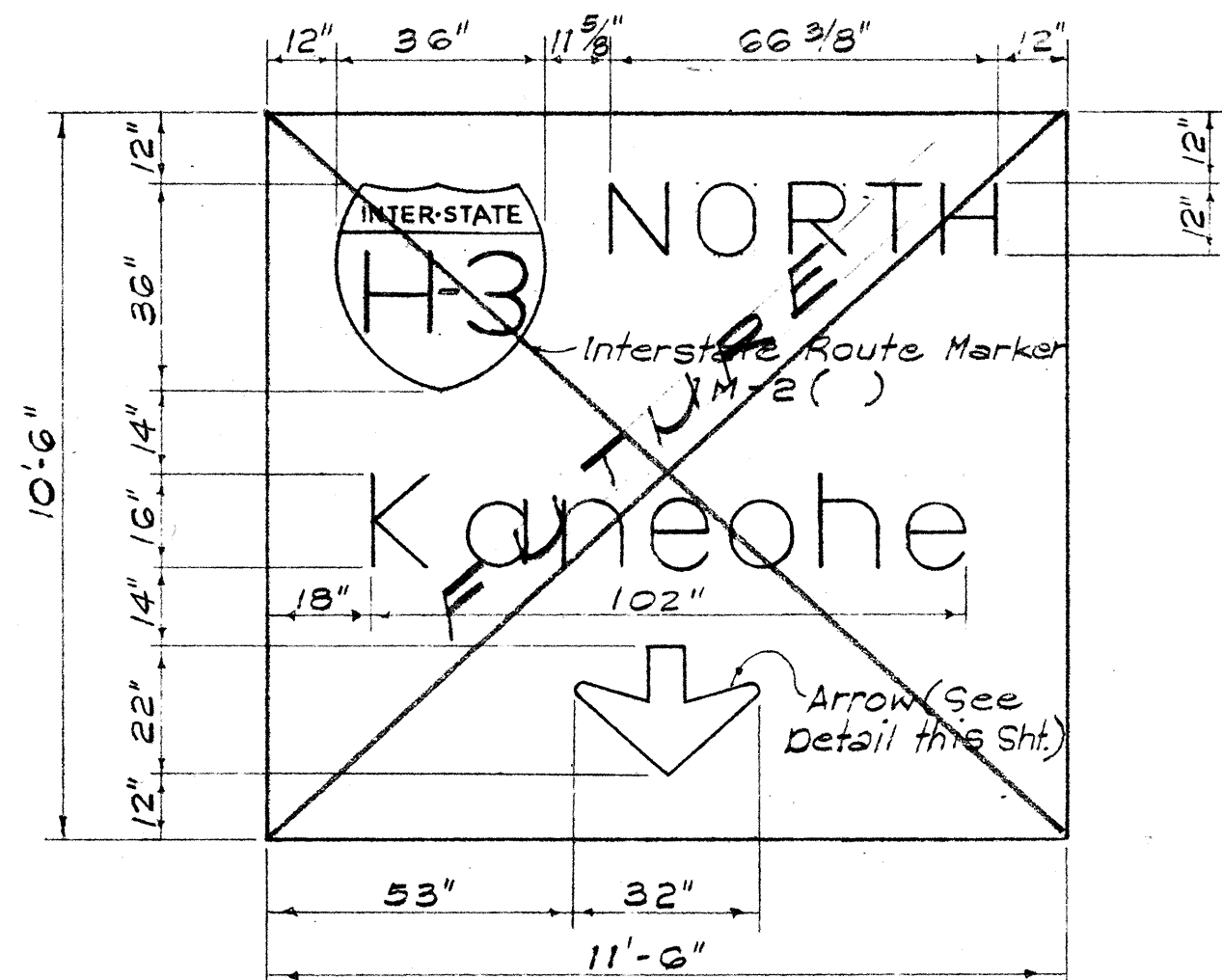
SIGN E-4
Not to scale



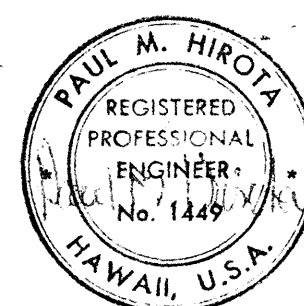
SIGN E-1 ~~DELETE~~
Scale: 3/8"=1'-0"



SIGN E-2
Scale: 3/8"=1'-0"



SIGN E-3 & E-6
Scale: 3/8"=1'-0"



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGNS
PANEL LAYOUT

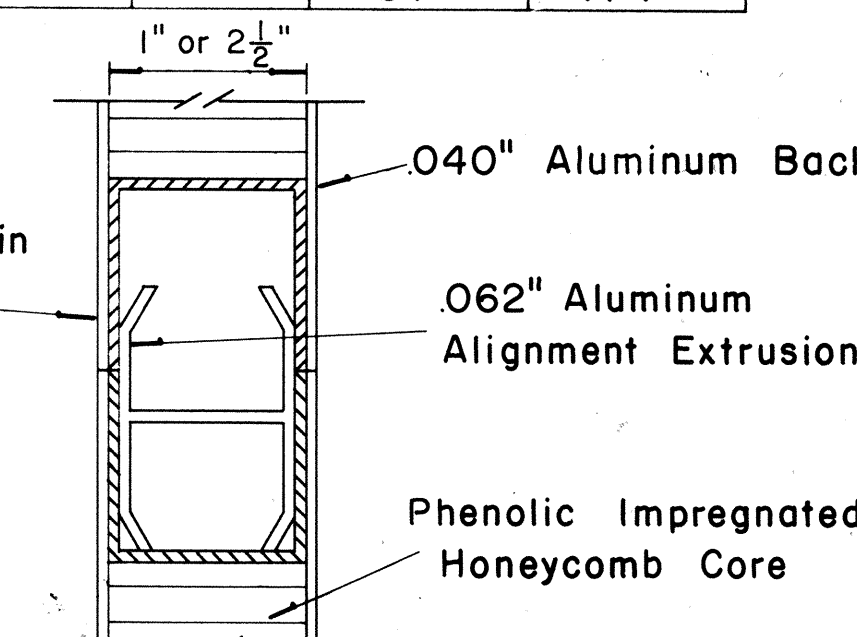
INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(G4):12, Unit 2

Scale: As Noted Date: 8/10/68
SHEET No. 11 OF 17 SHEETS

23

(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"

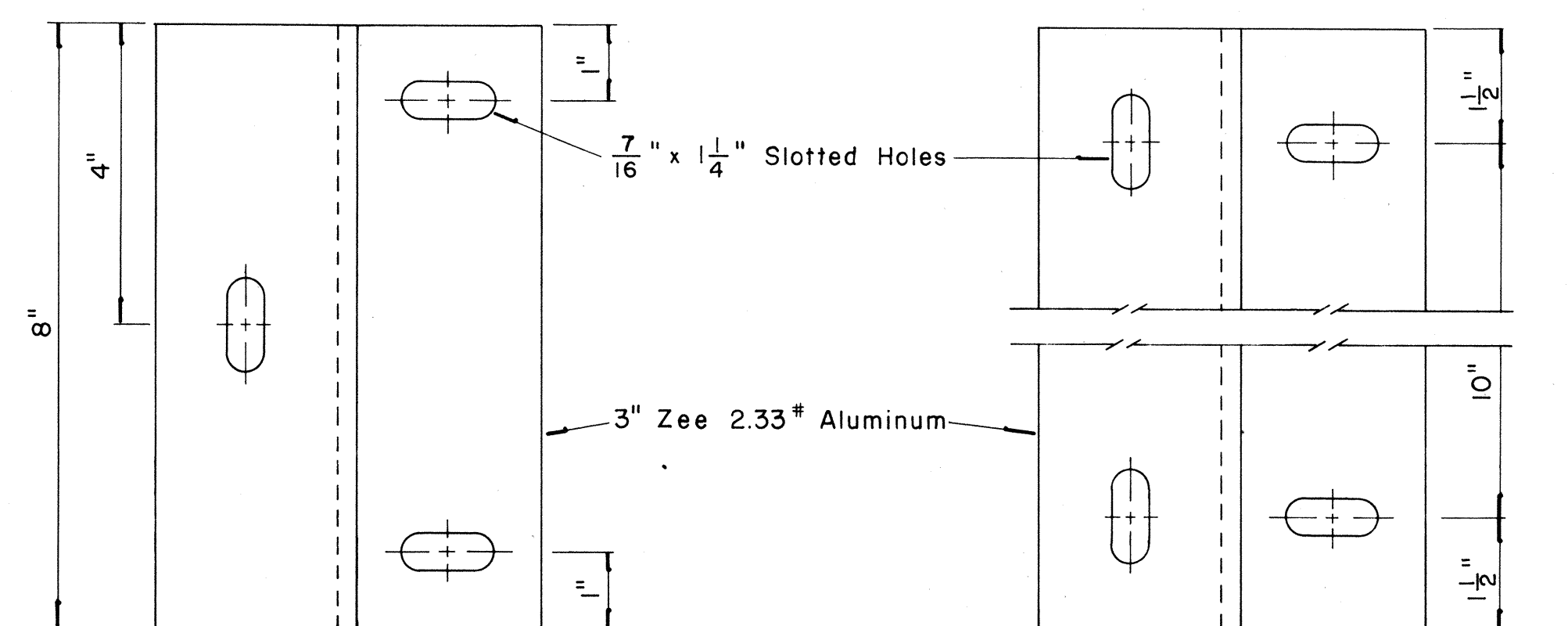


CLOSURE DETAIL
SECTION "C-C"
FULL SCALE

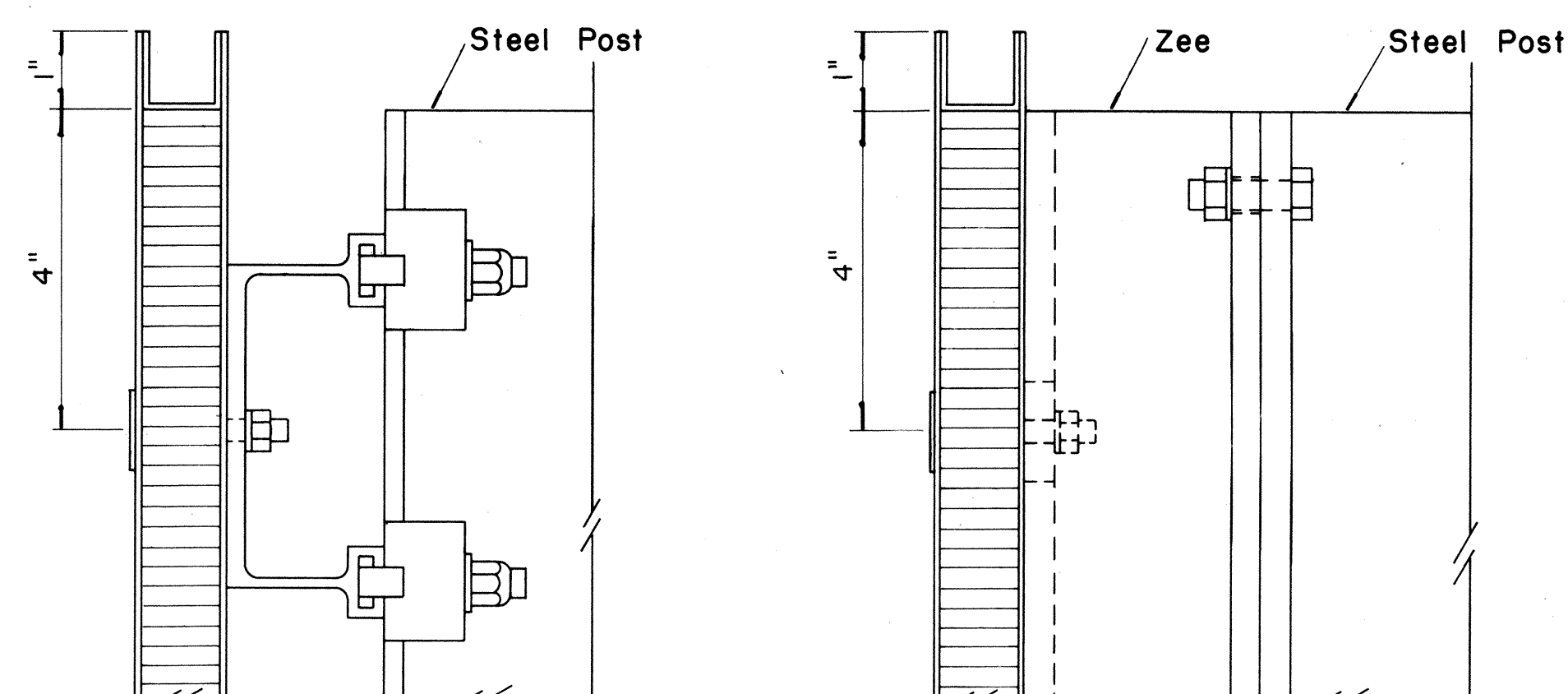
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

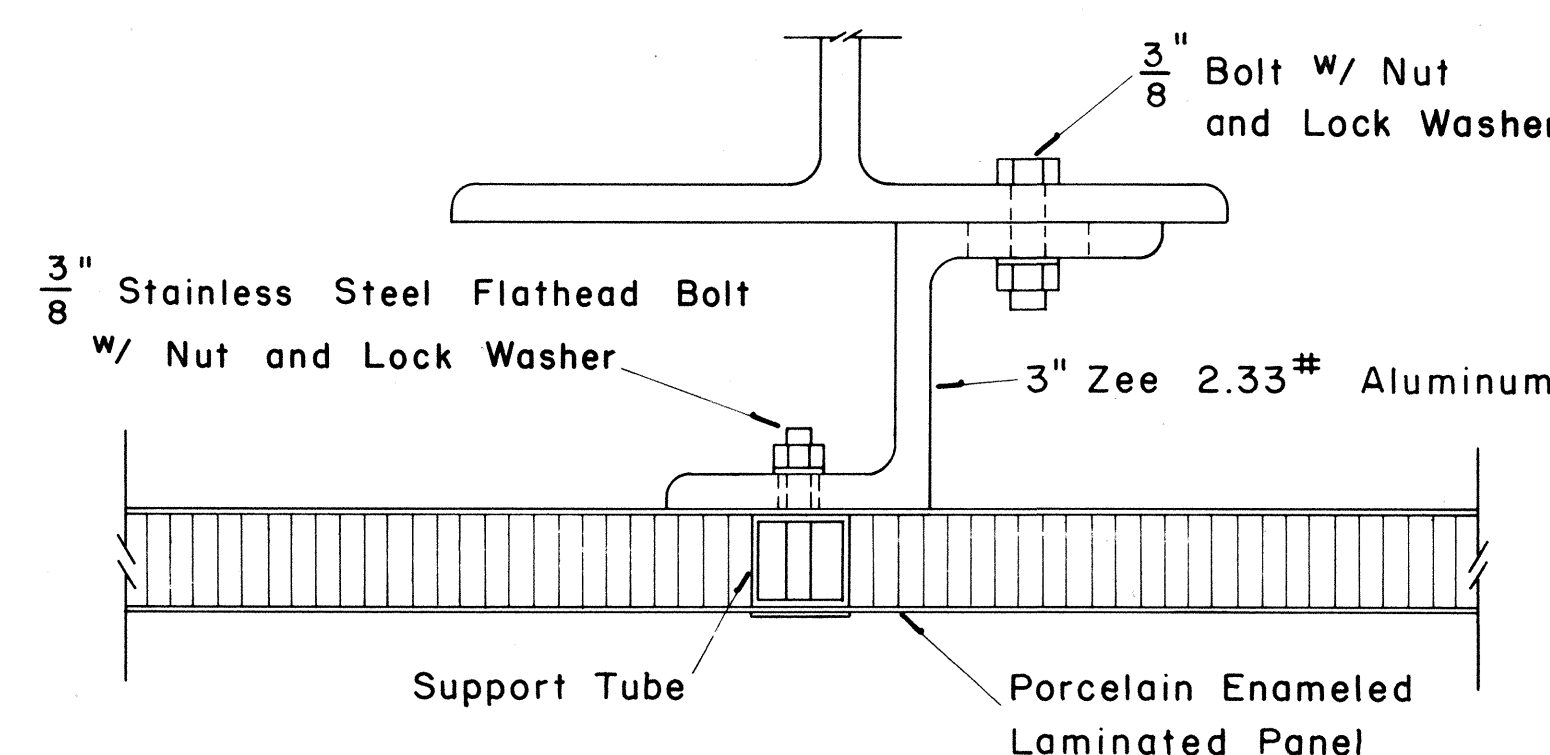
SHEET No. 12 OF 17 SHEETS



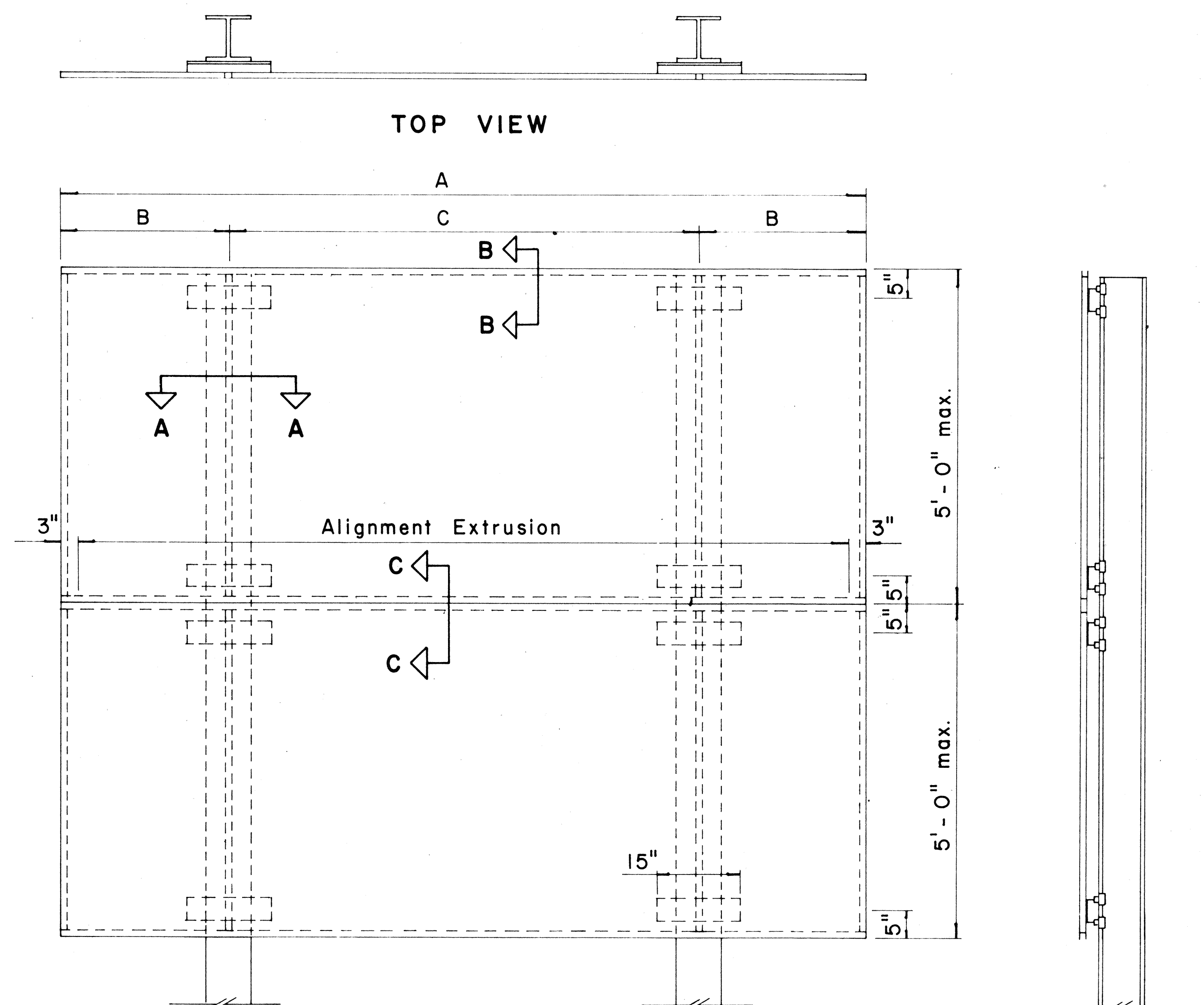
END MOUNTING INTERMEDIATE MOUNTING
ZEE MOUNTING DETAILS
Scale: 1/2" = 1"



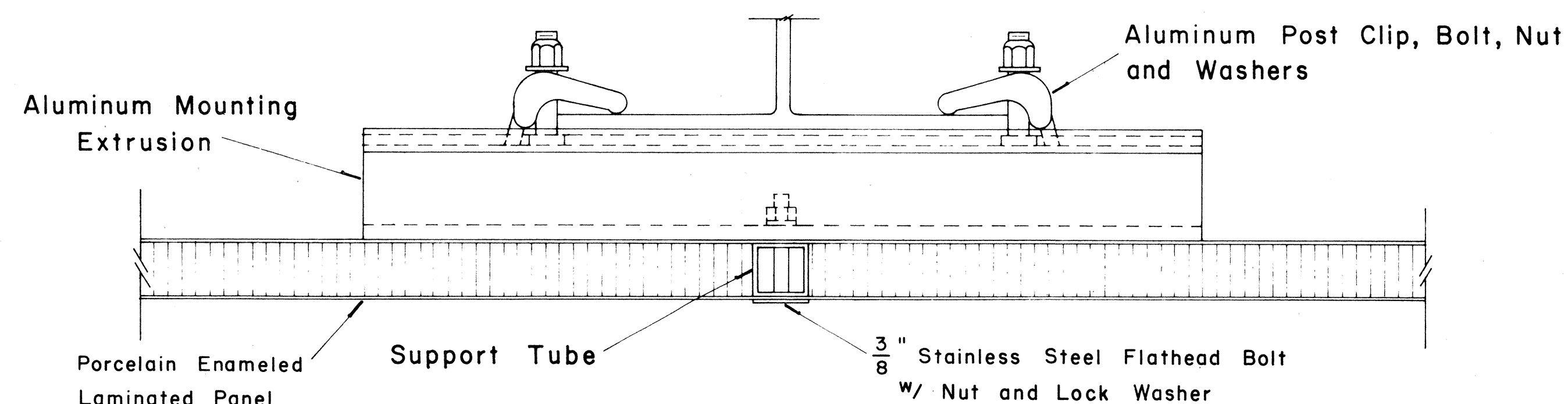
SECTION "B-B" SECTION "B-B" (Alternate)
Scale: 1/2" = 1" Scale: 1/2" = 1"



SECTION "A-A" (Alternate)
Scale: 1/2" = 1"



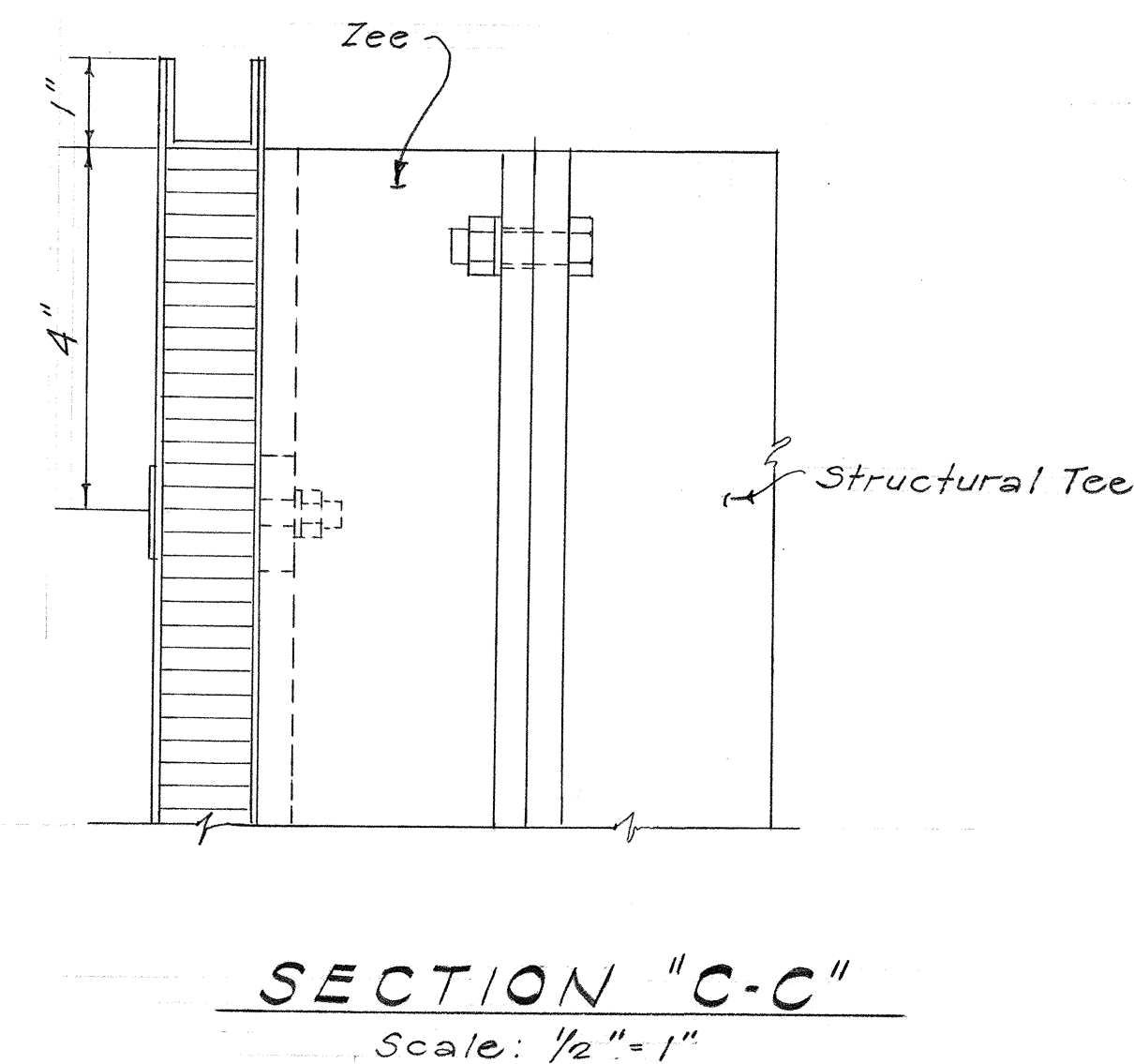
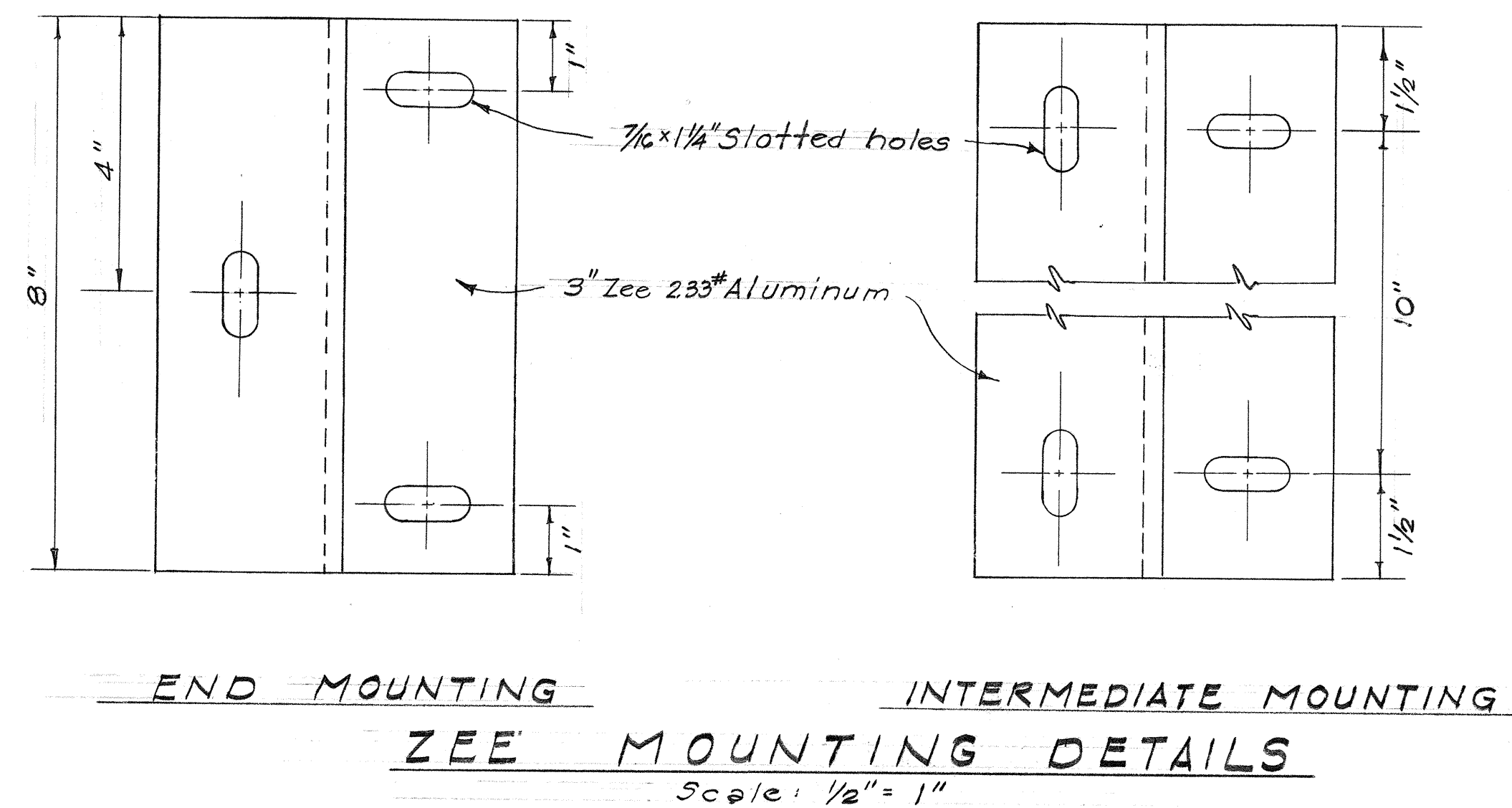
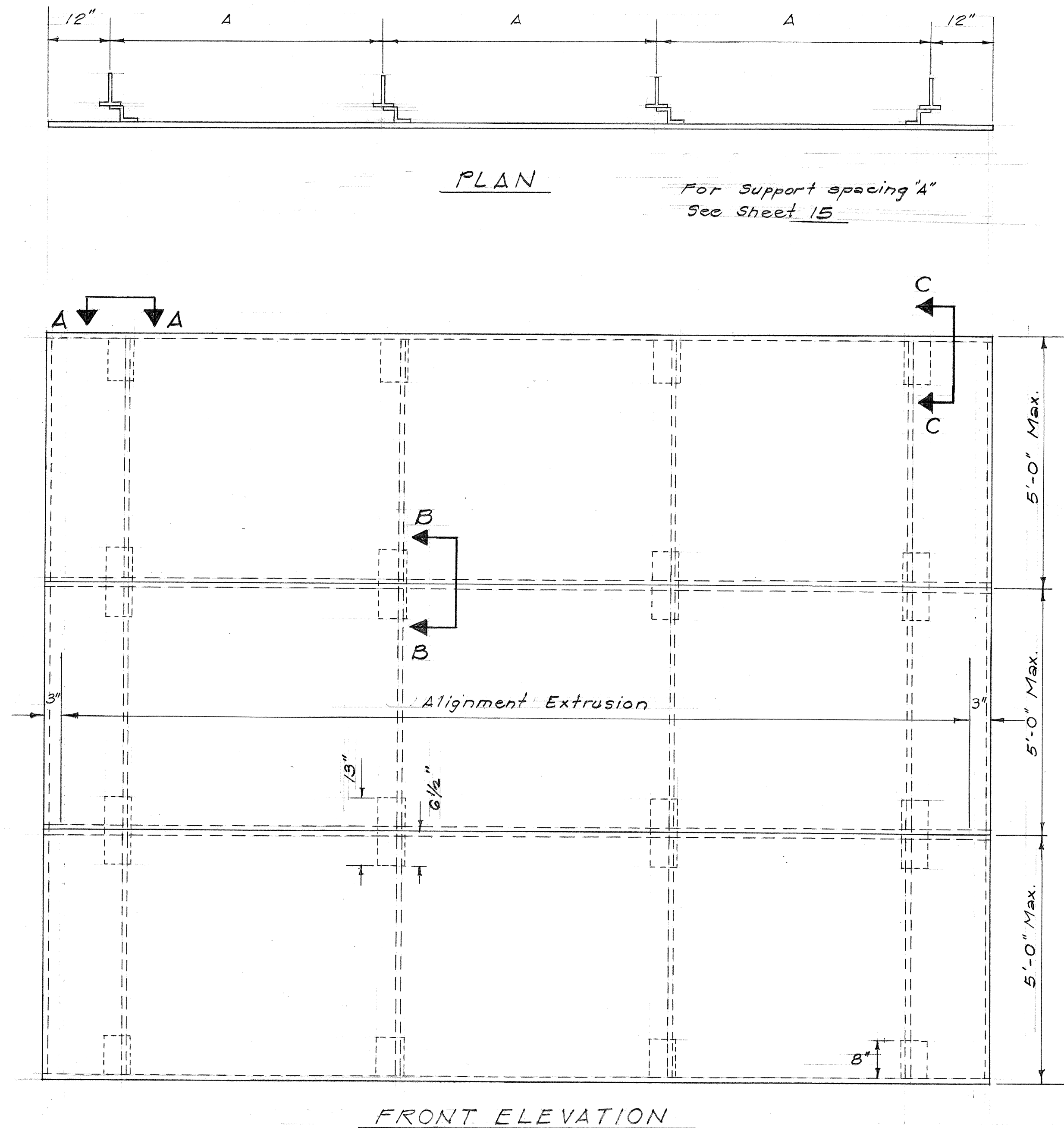
ELEVATION SIDE VIEW
TYPICAL SIGN ASSEMBLY
Scale: 3/4" = 1' - 0"



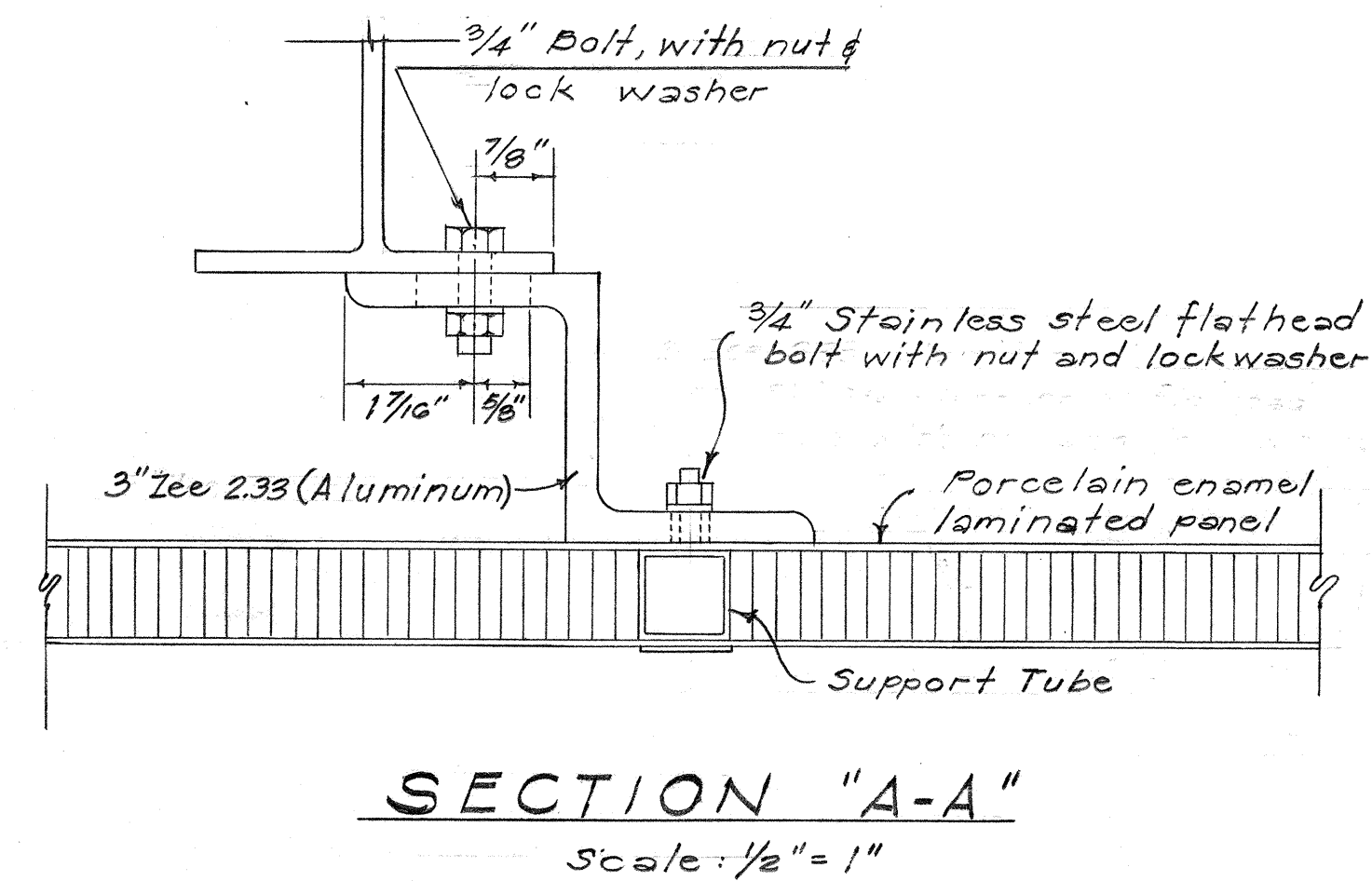
SECTION "A-A"
Scale: 1/2" = 1"

DATE
DRAWN BY
CHECKED BY
NO.

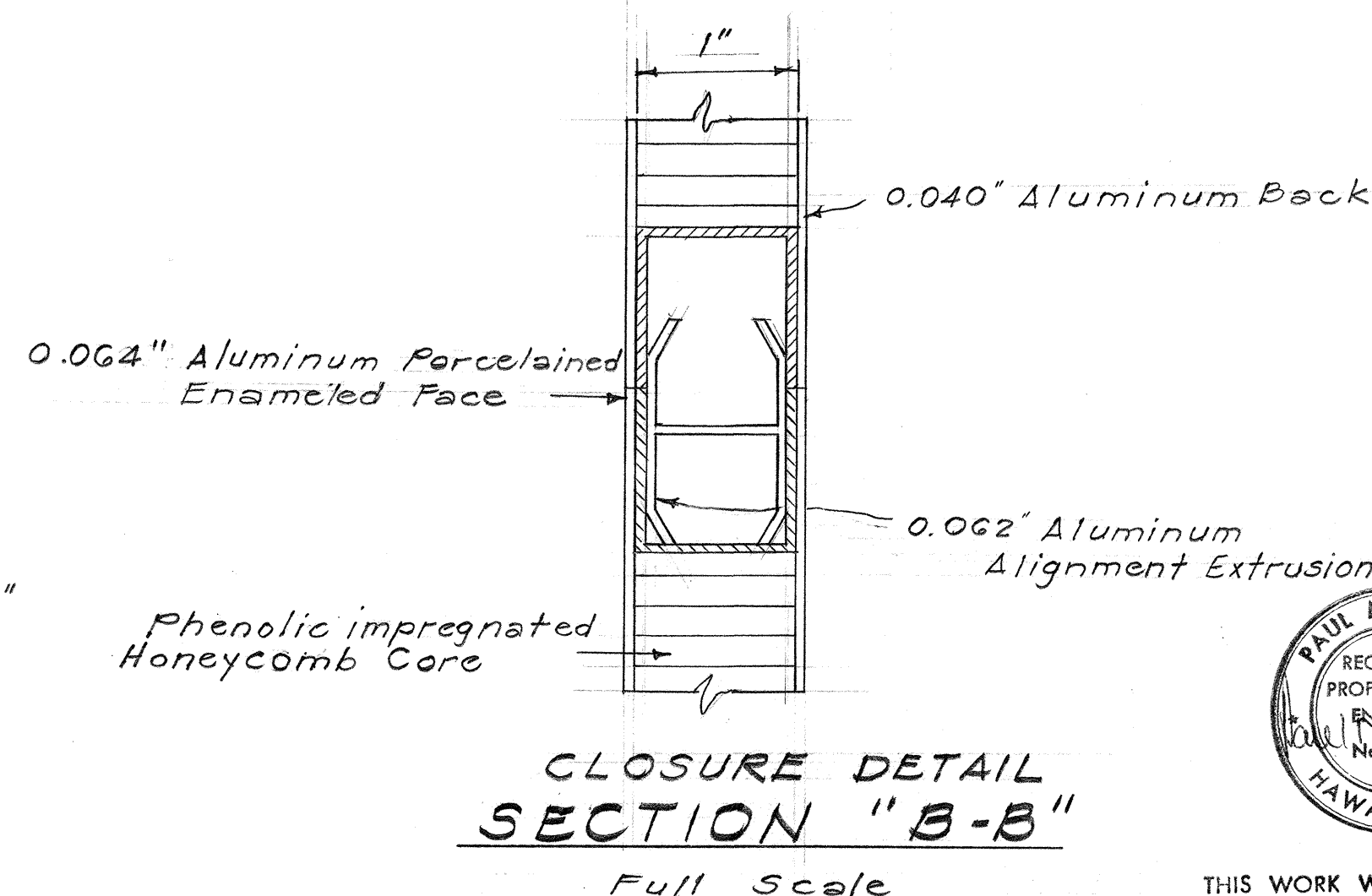
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(64):12 Unit 2	1960	25	128
		I-HI-1(16):11			



TYPICAL SIGN ASSEMBLY
Scale: 3/4" = 1'-0"



Note: For Zee panel support on right side of sign panel, reverse Zee support as shown in plan view of "Typical Sign Assembly"



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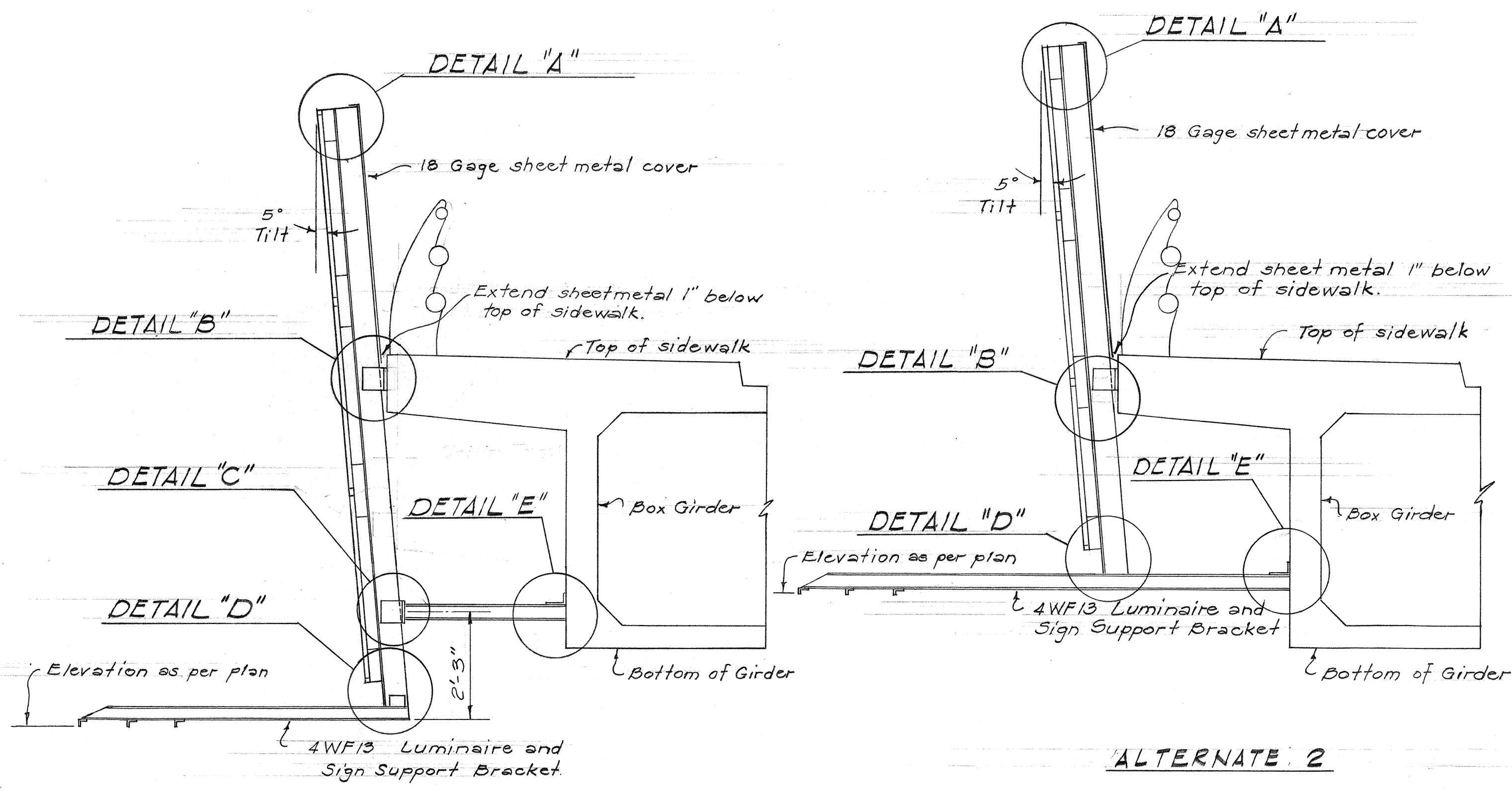
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
LAMINATED ALUMINUM
SIGN PANELS
(STRUCTURE MOUNTED)
INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(64):12,
Unit 2
Scale: As Shown Date: 8/10/68

SHEET No. 13 OF 17 SHEETS

DATE	
DESIGNED BY	
TRACED BY	
NOTED 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.	I-H-1(64)12 Unit 2	1969	26	128
		I-H-1(16)11			

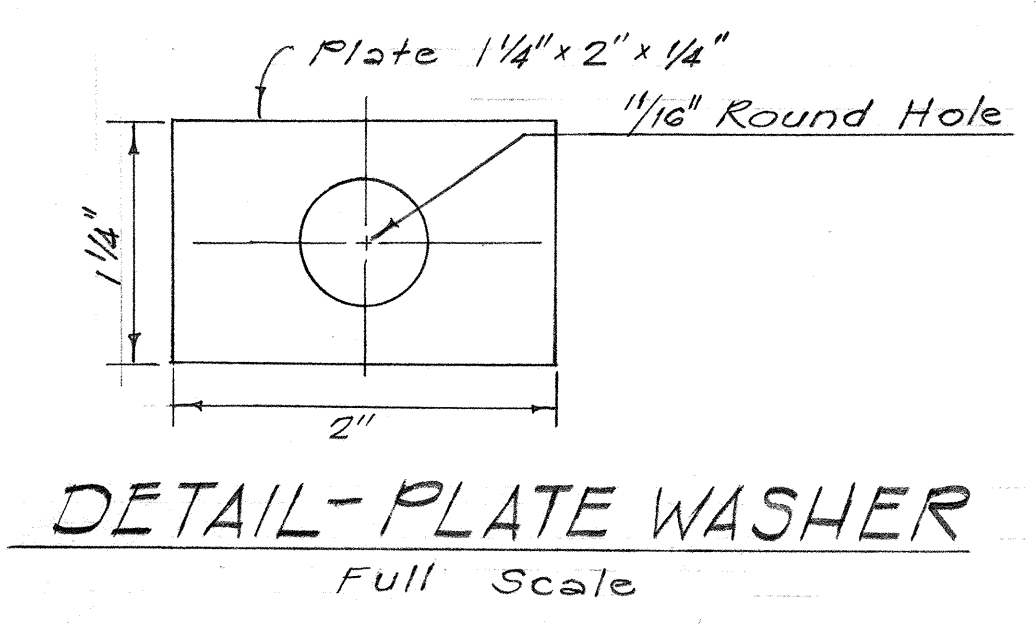
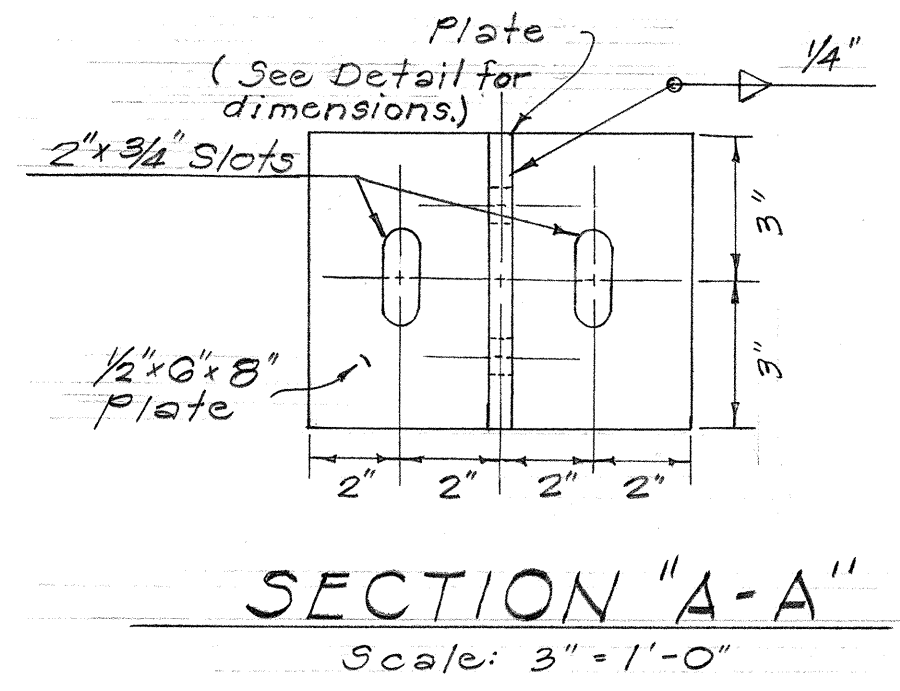
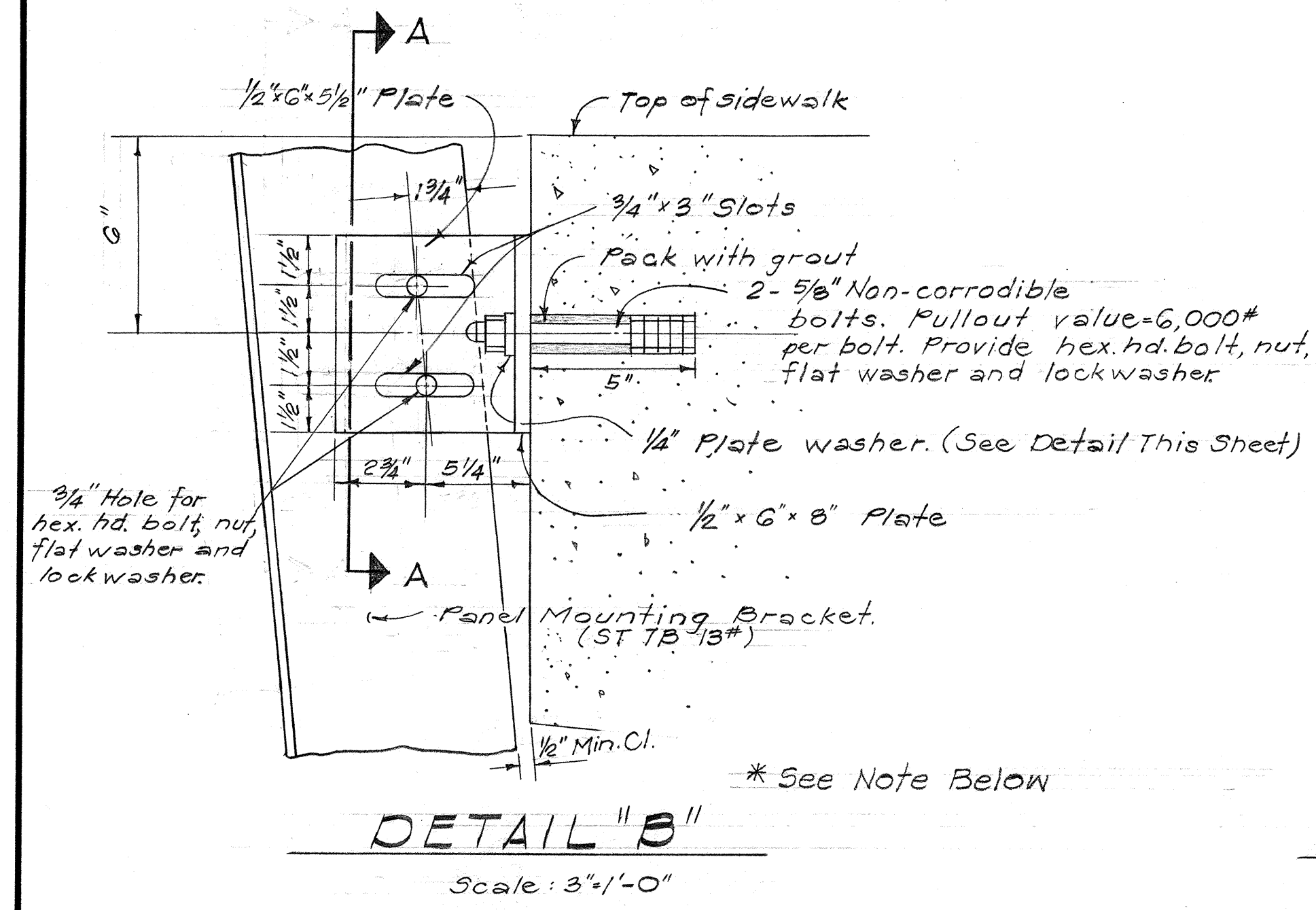


ALTERNATE 1

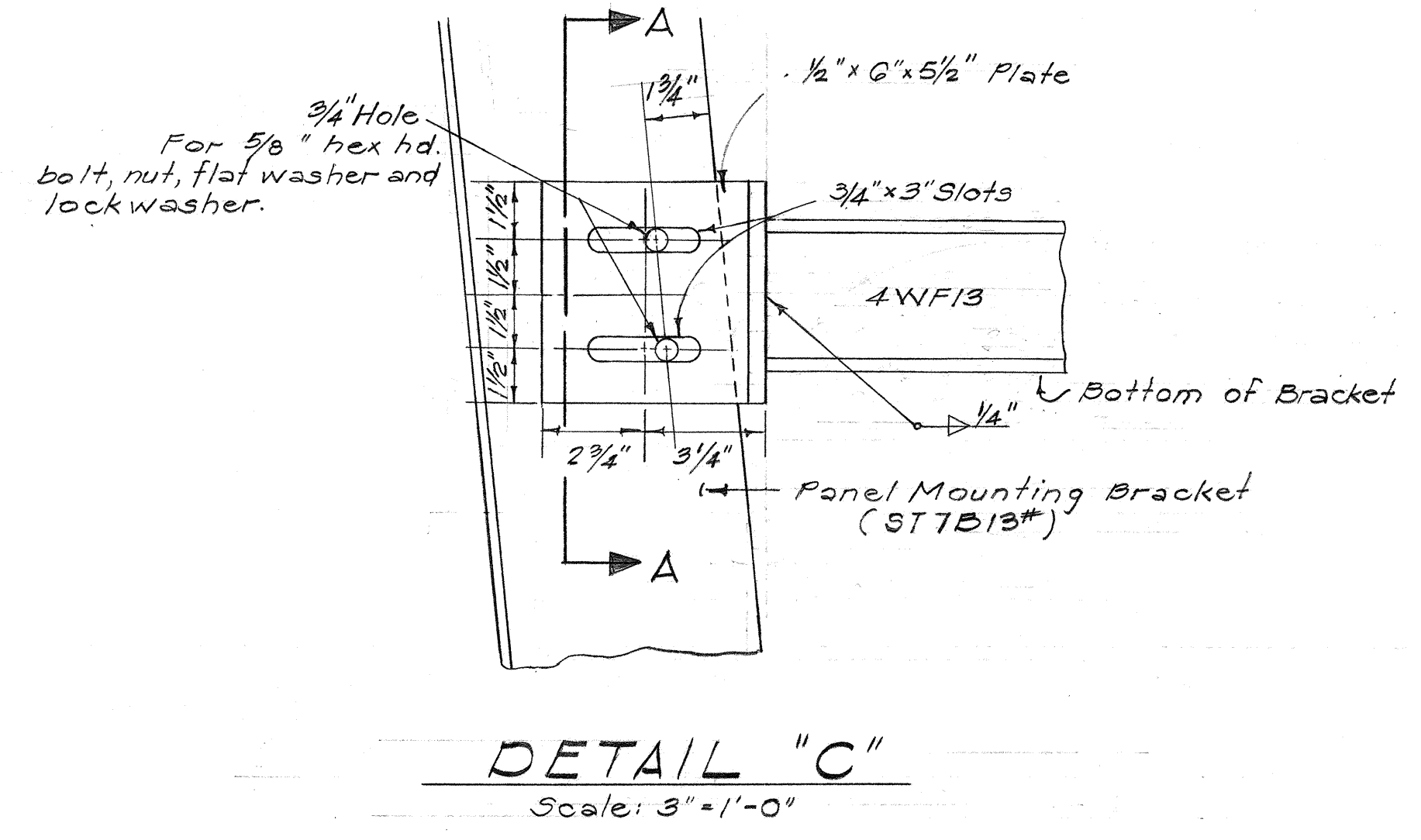
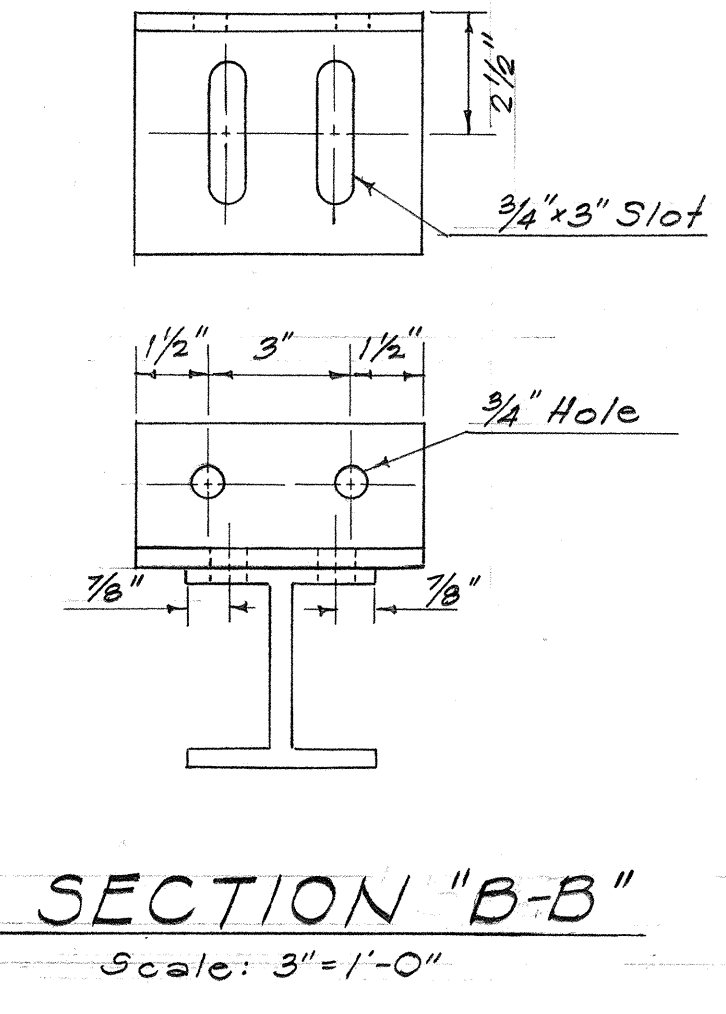
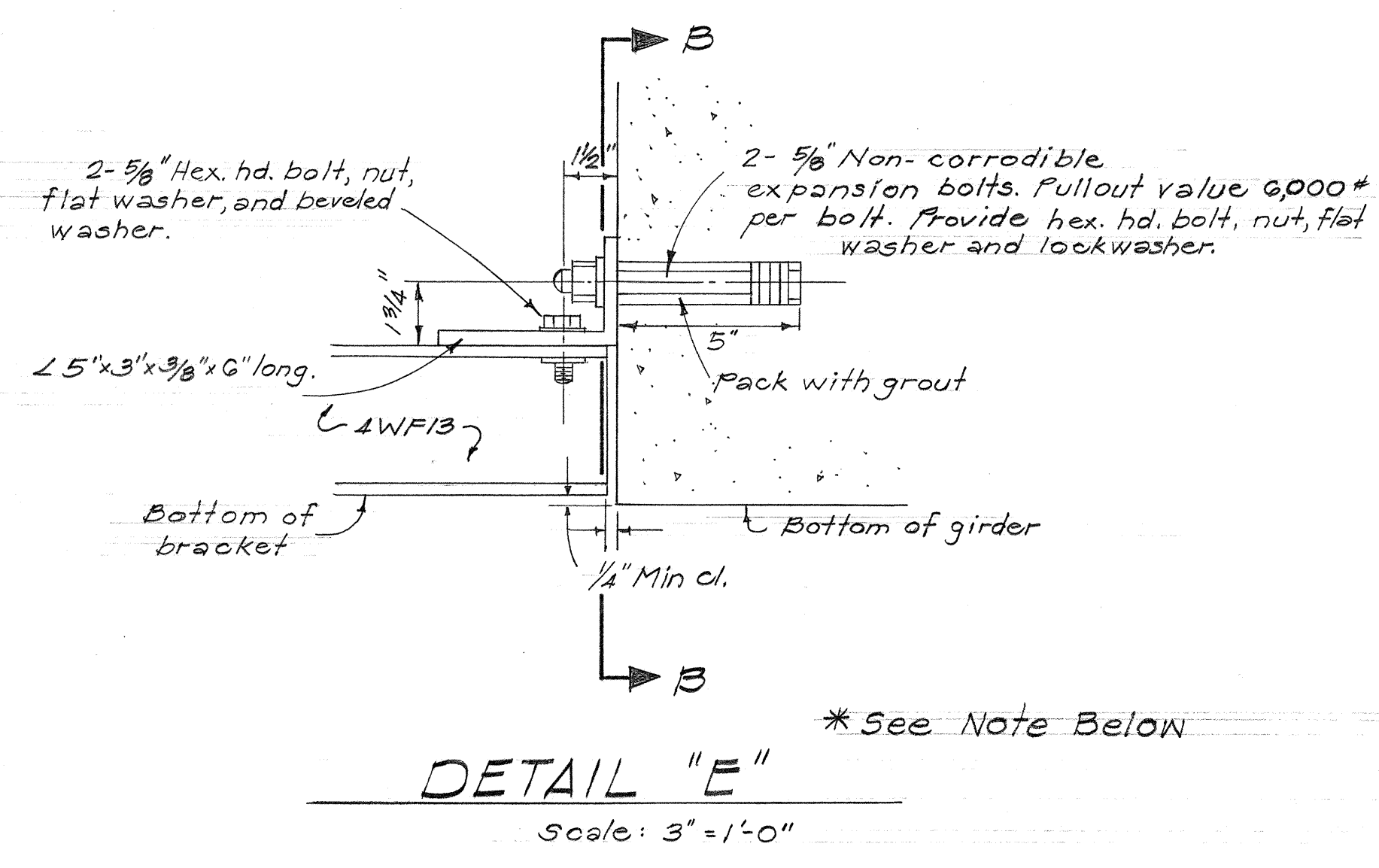
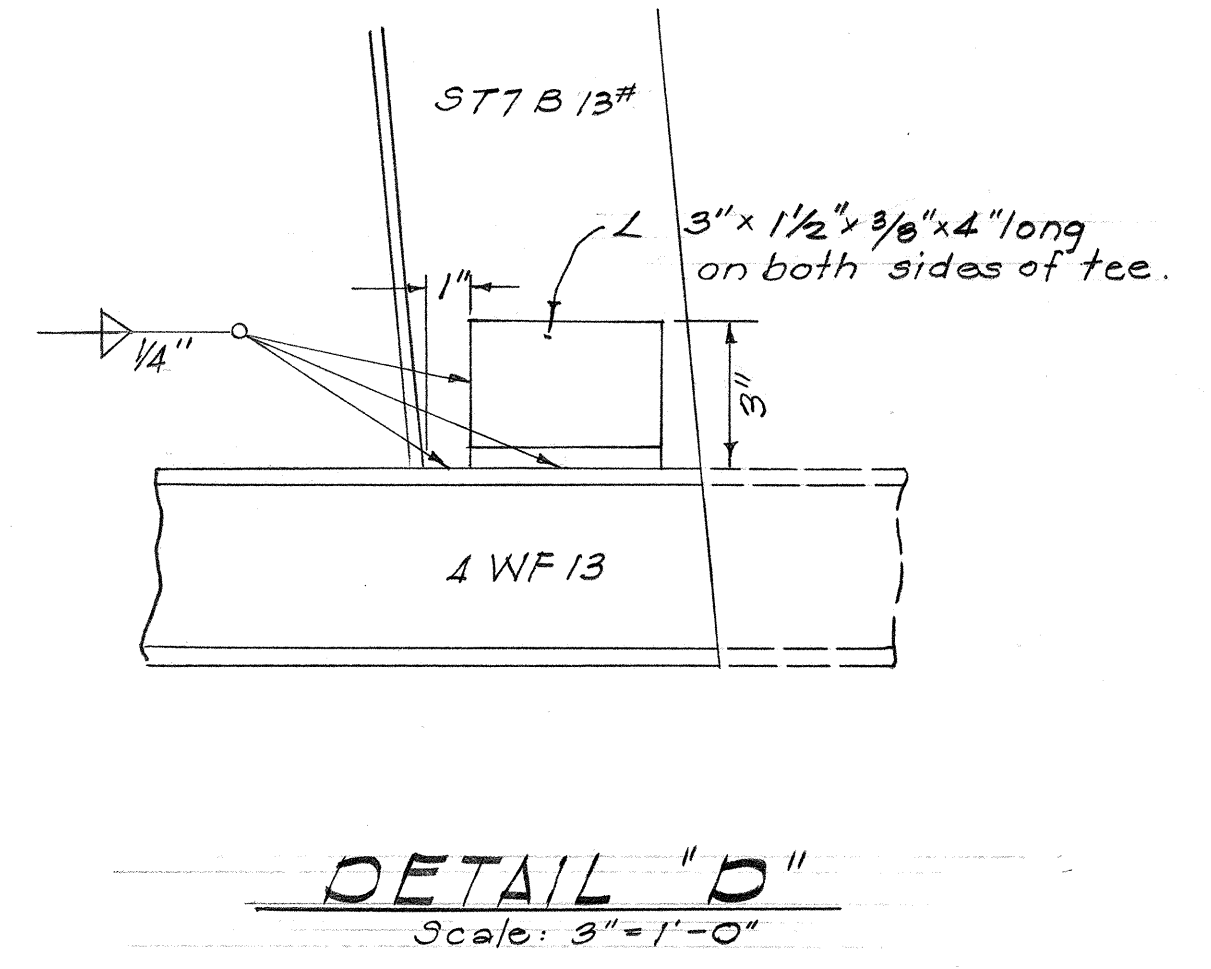
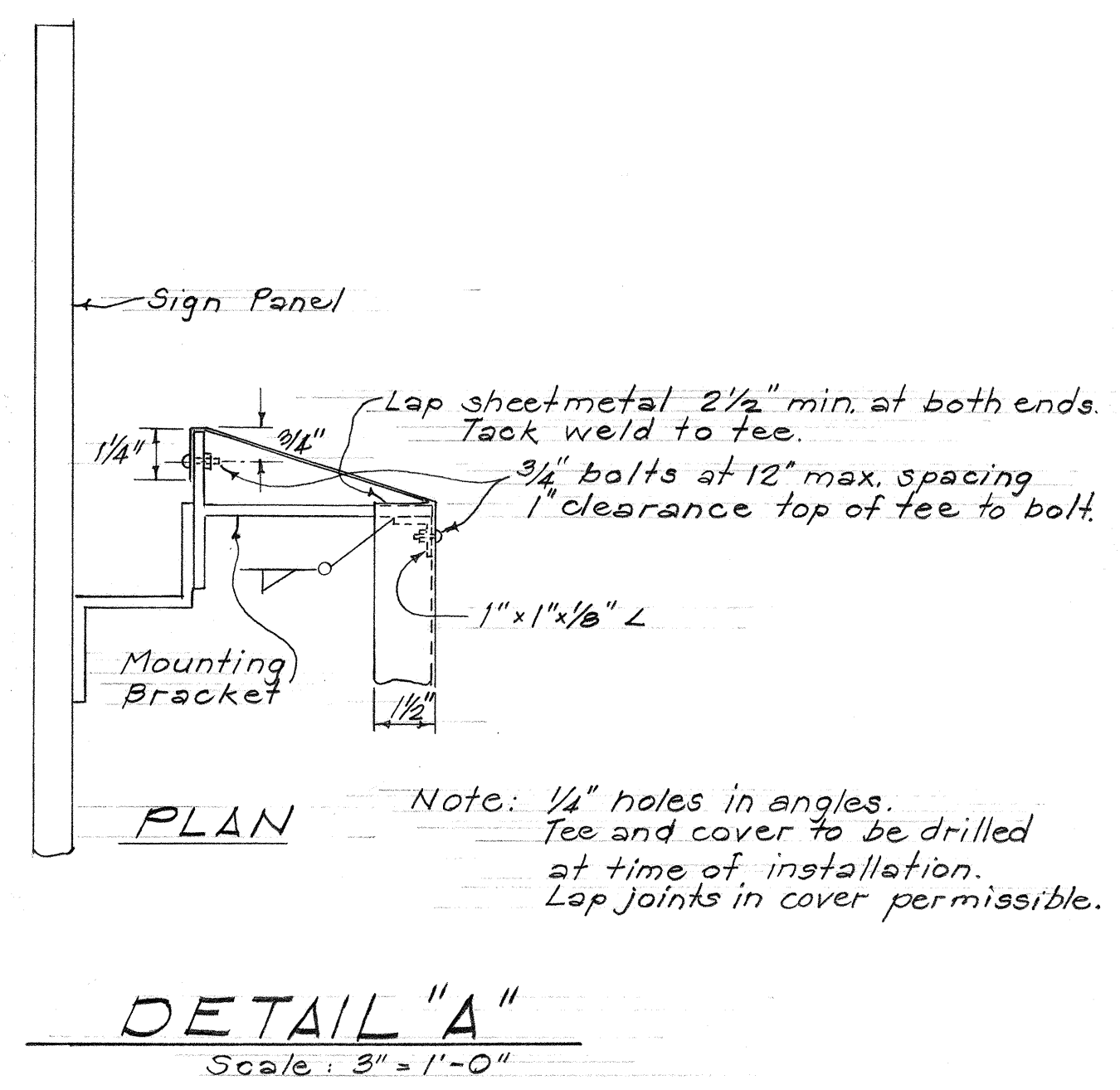
ALTERNATE 2

EXPRESSWAY SIGN - MOUNTING BRACKET ASSEMBLY

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



* NOTE: Furnishing and installing expansion bolts and accessories for mounting sign incidental to Item 107.01, Panel for Expressway Sign. Applicable to Details "B" and "E".



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGN SUPPORT
(STRUCTURE MOUNTED)

INTERSTATE ROUTE H-1
PROJ. NO. I-H-1(64)12,
Unit 2

Scale: As Noted Date: 8/10/68

SHEET No. 14 OF 17 SHEETS

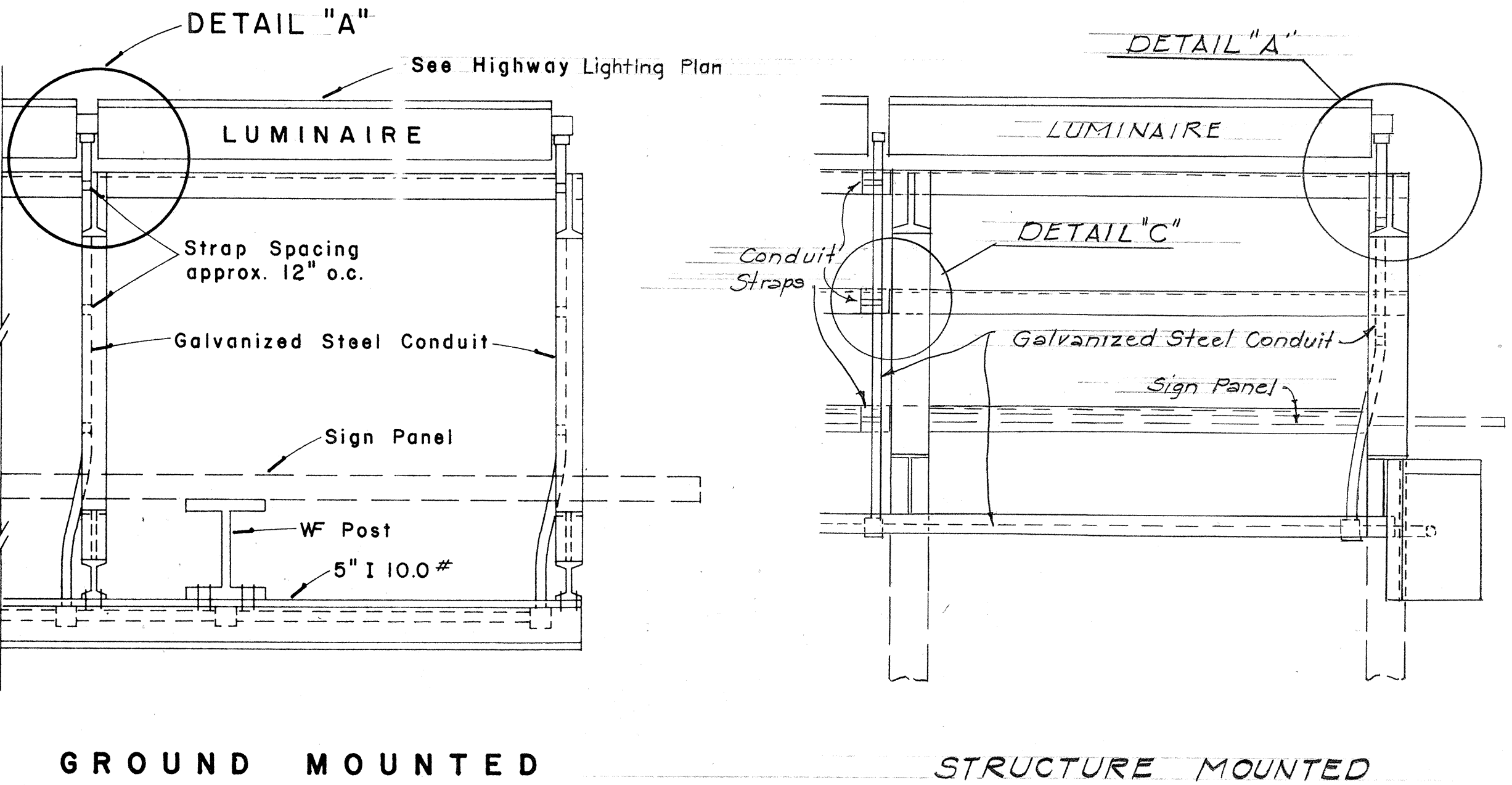
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SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-11-11-11	1969	27	128

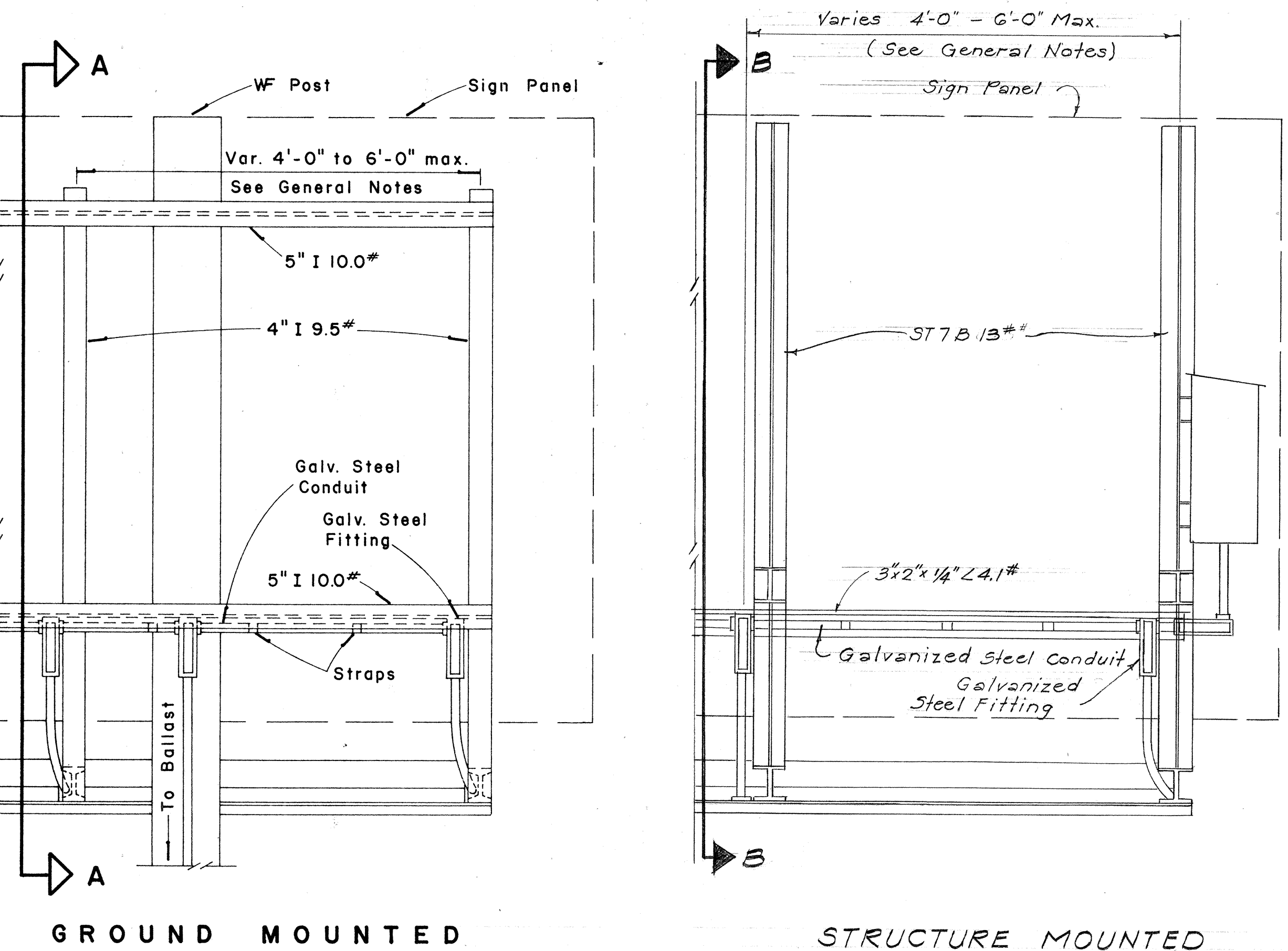
GENERAL NOTES

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.



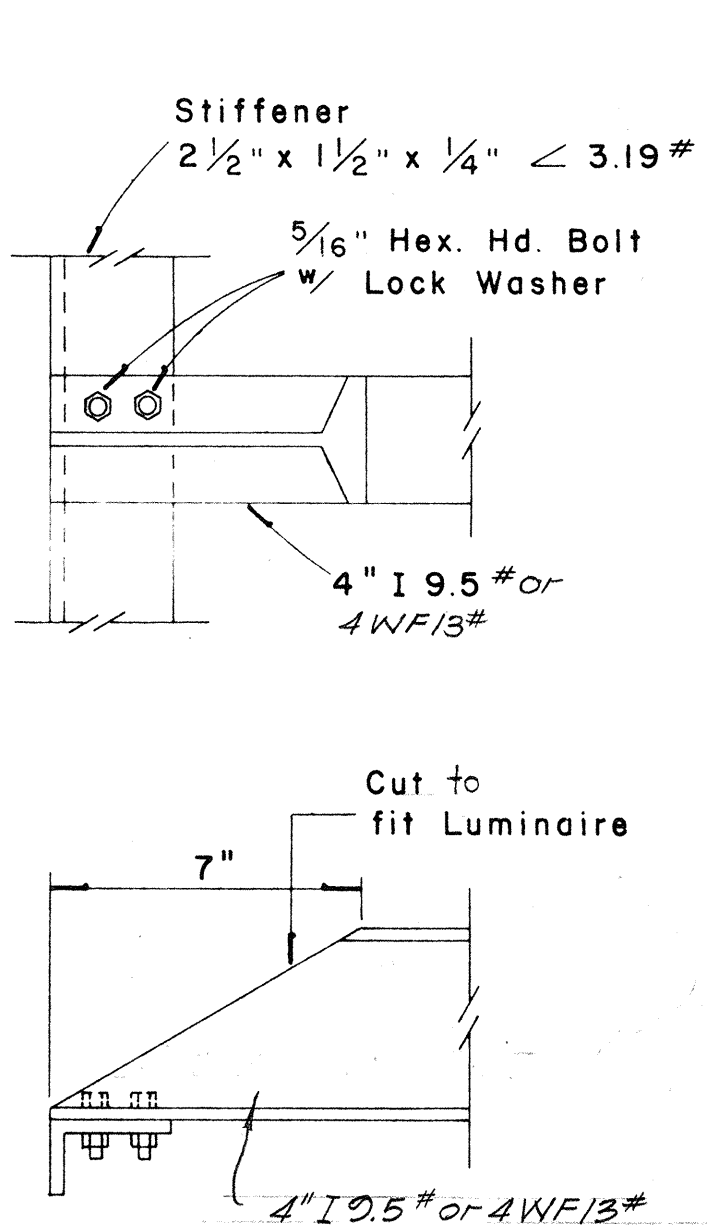
TOP VIEW LUMINAIRE MOUNTING

Scale: 1" = 1'-0"



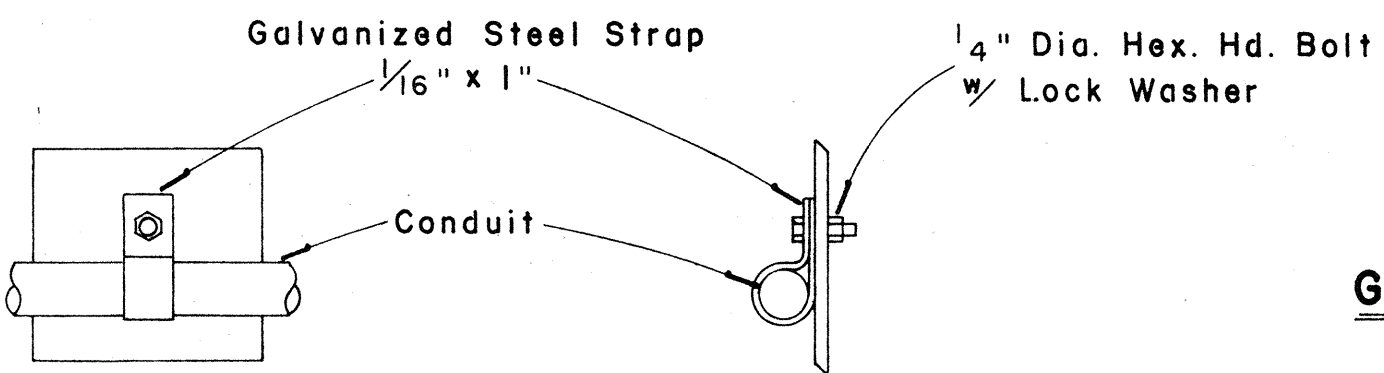
REAR VIEW LUMINAIRE MOUNTING

Scale: 1" = 1'-0"



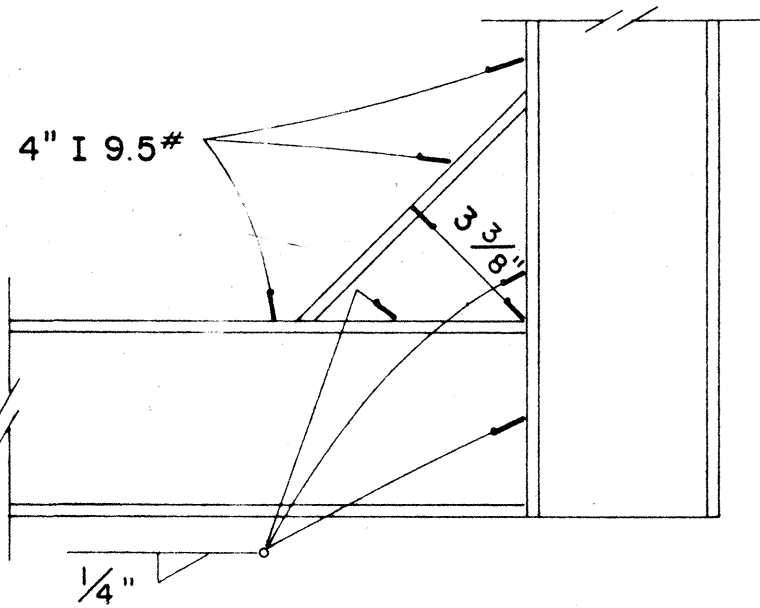
DETAIL "A"

Scale: 3" = 1'-0"



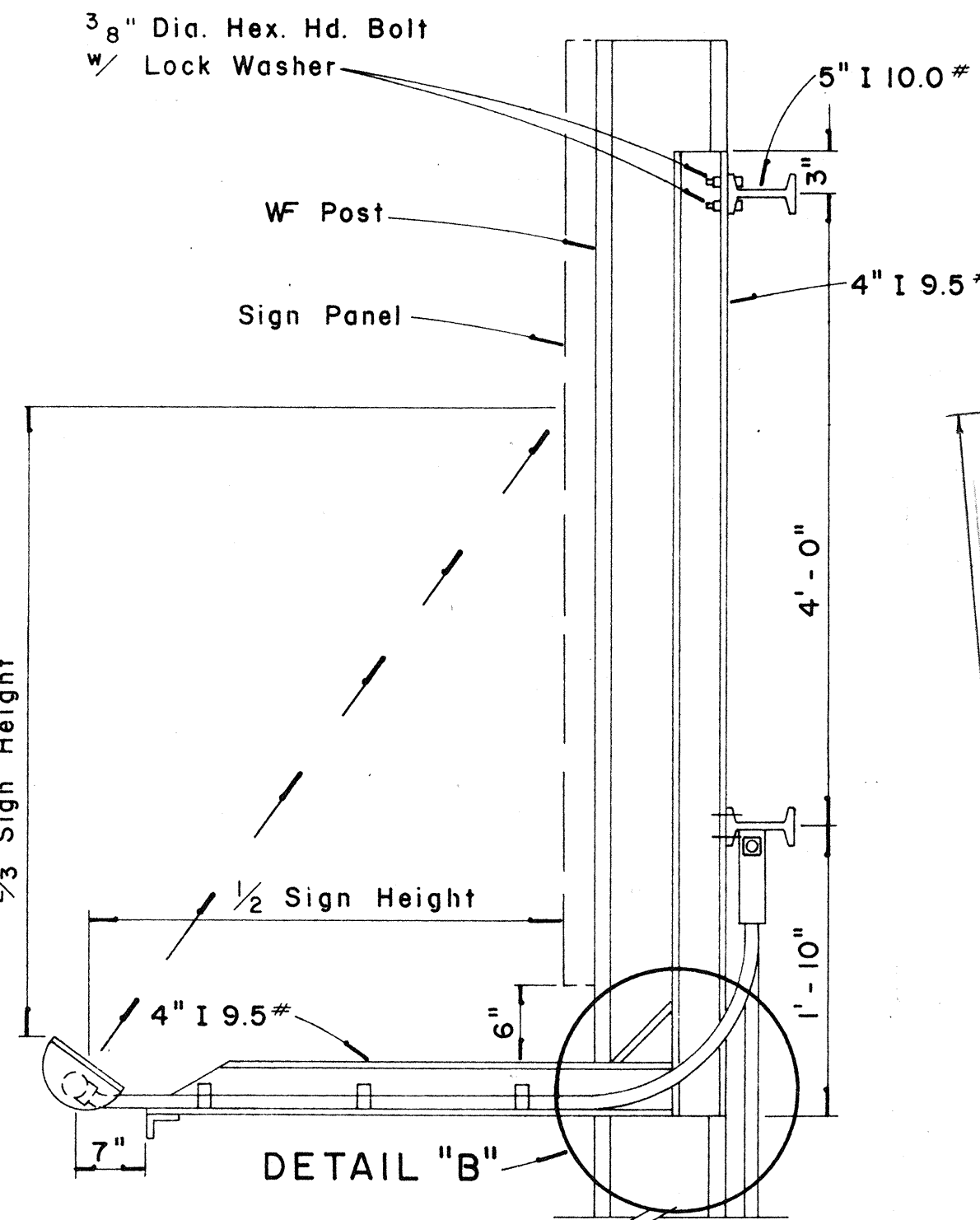
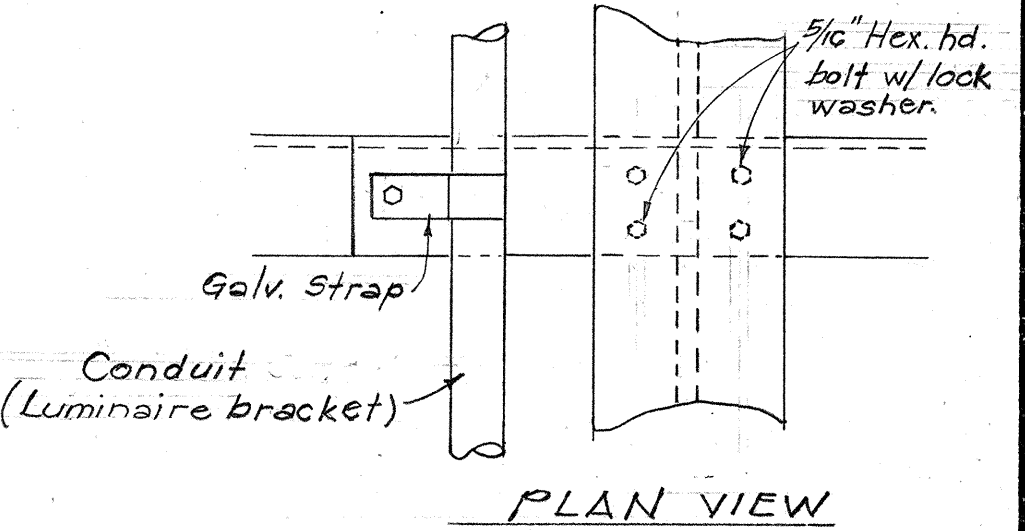
CONDUIT STRAP DETAIL

Scale: 3" = 1'-0"



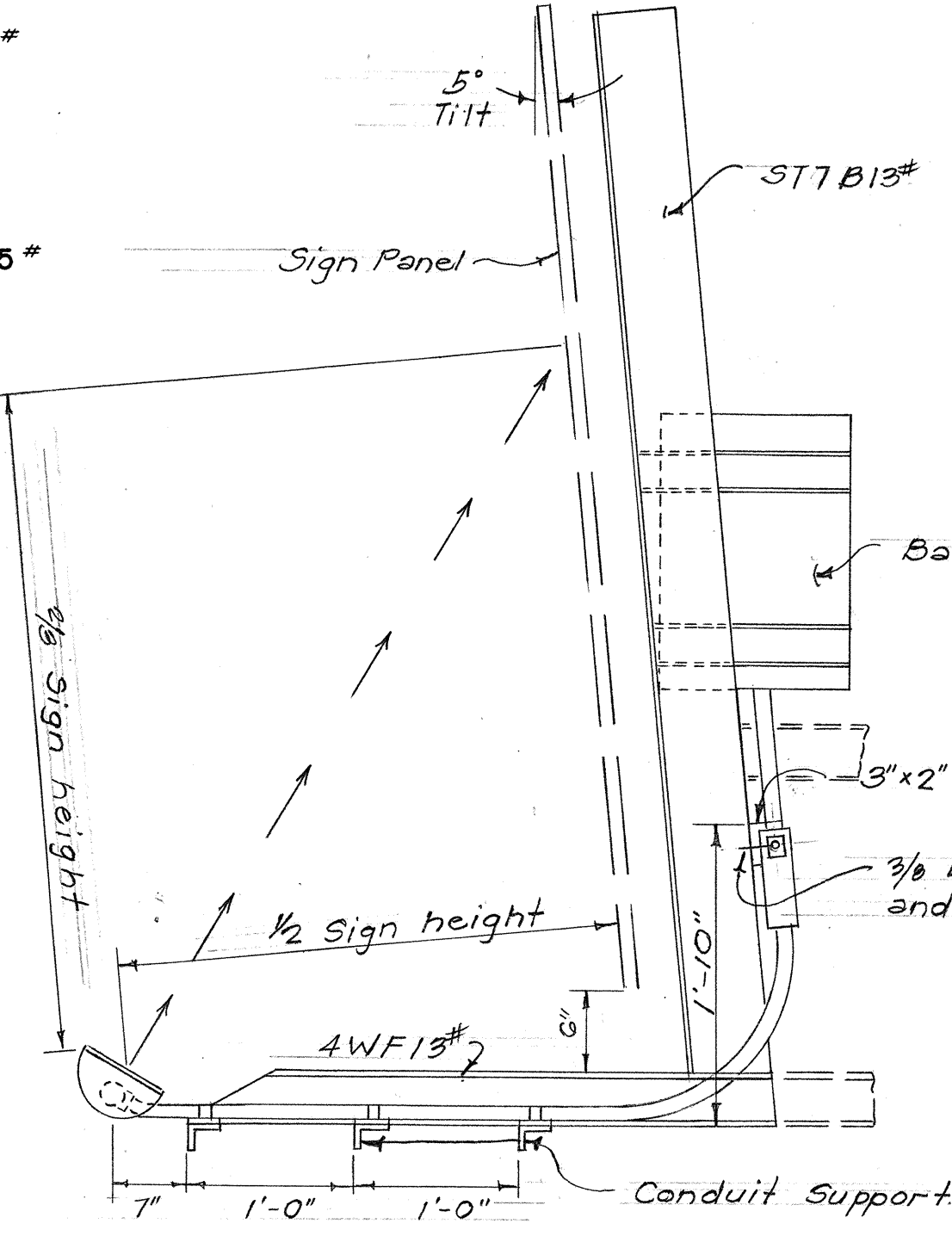
DETAIL "B"

Scale: 3" = 1'-0"



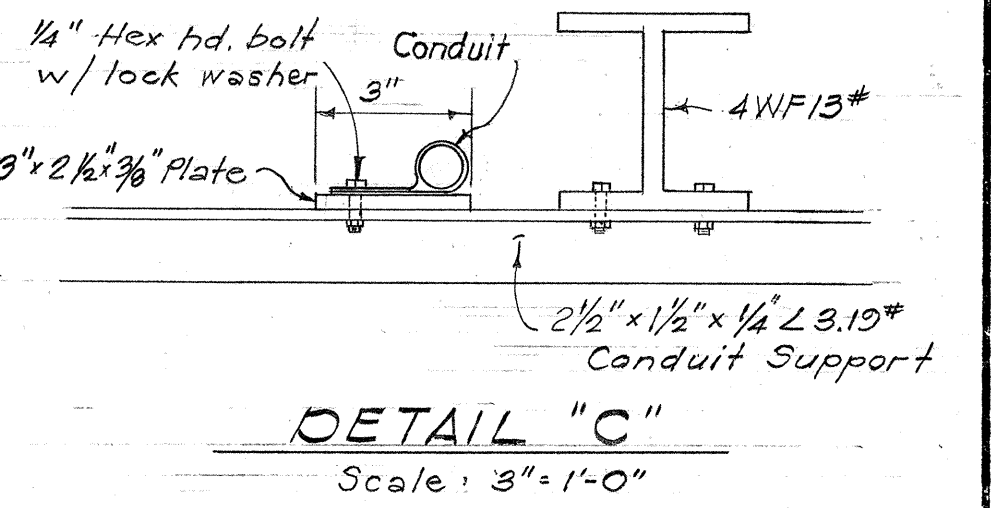
SECTION "A-A"

Scale: 1" = 1'-0"



SECTION "B-B"

Scale: 1" = 1'-0"



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

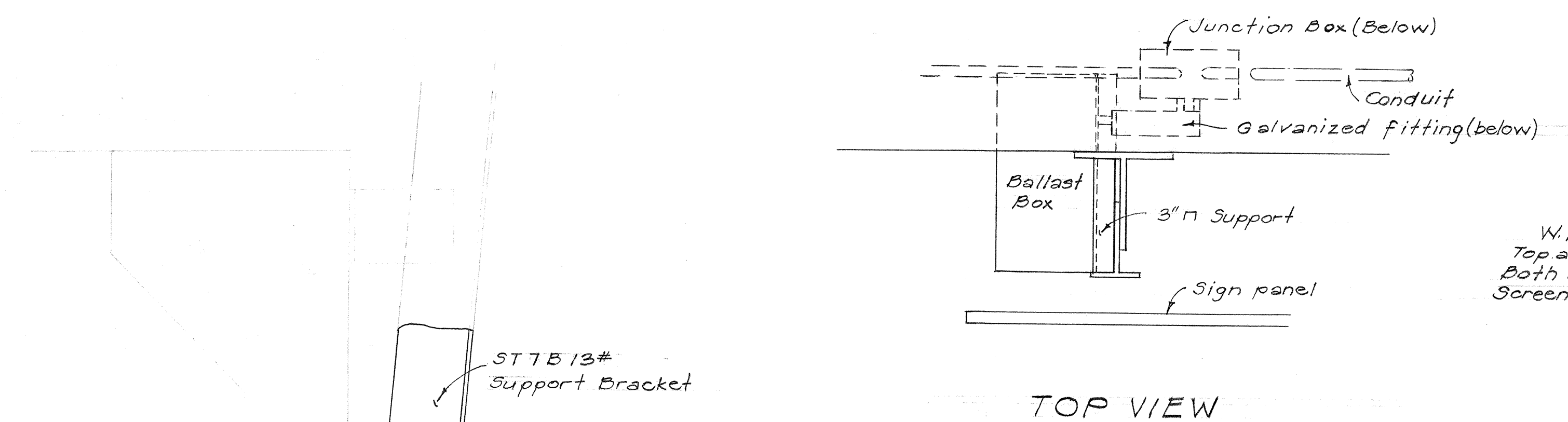
EXPRESSWAY SIGNS LUMINAIRE MOUNTINGS

Scale: As Shown

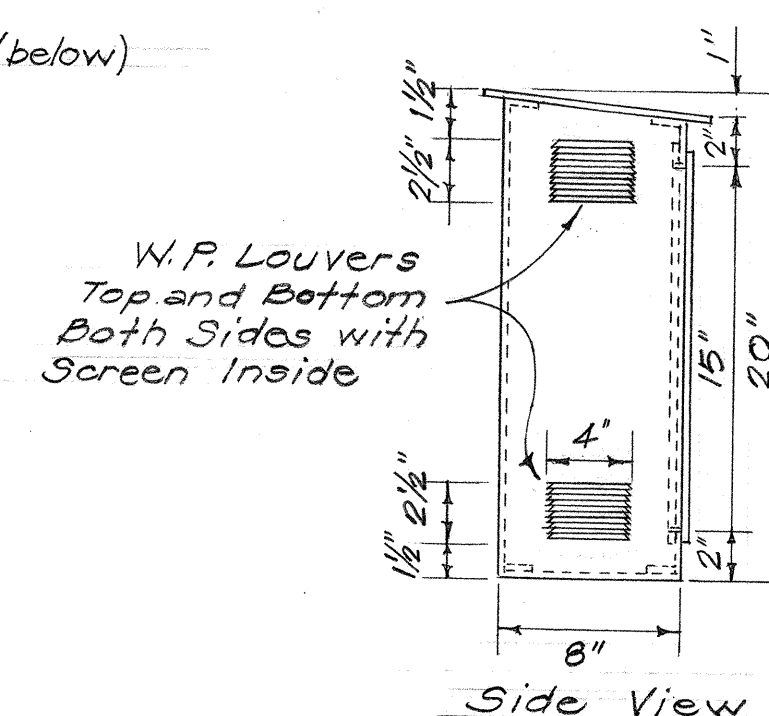
SHEET No. 15 OF 17 SHEETS

DATE	DESIGNED BY	CHECKED BY
PLAN	DESIGNED BY	CHECKED BY
NOTE BOOK	DESIGNED BY	CHECKED BY
No.	DESIGNED BY	CHECKED BY

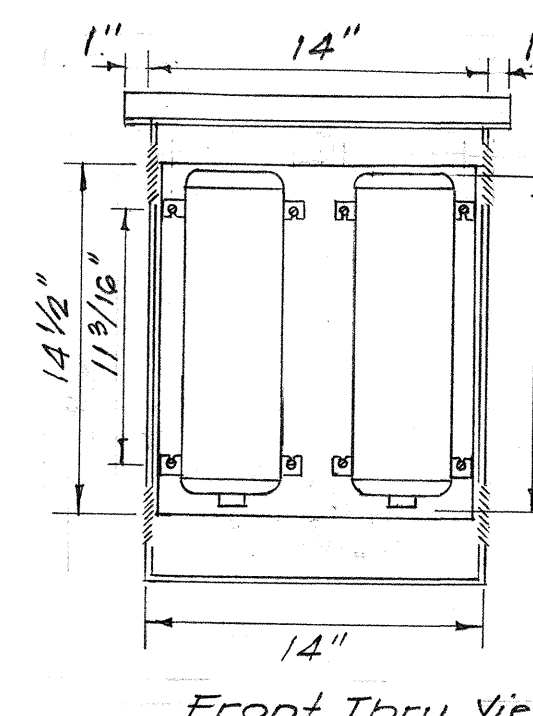
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(64):12 Unit 2	1969	28	128
		I-HI-1(66):11			



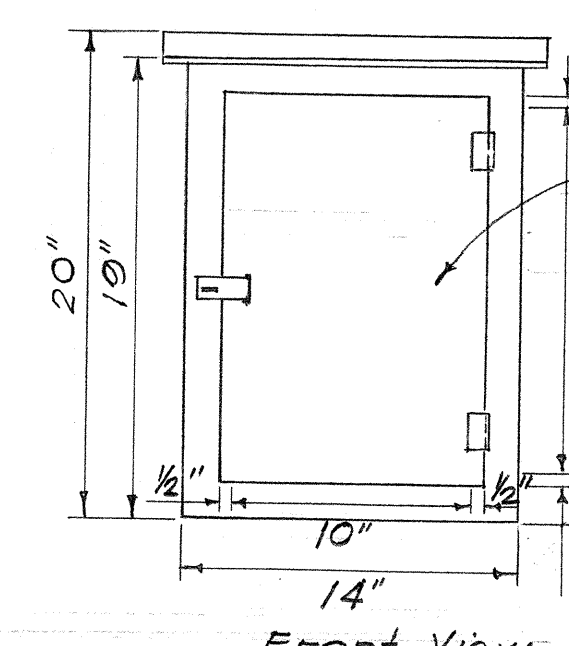
TOP VIEW



Side View

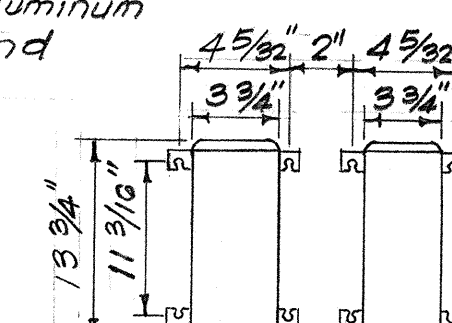


Front Thru View



Front View

Ballast Box
20"x14"x8" 8ga Aluminum
with hasp locking and
hinged door.



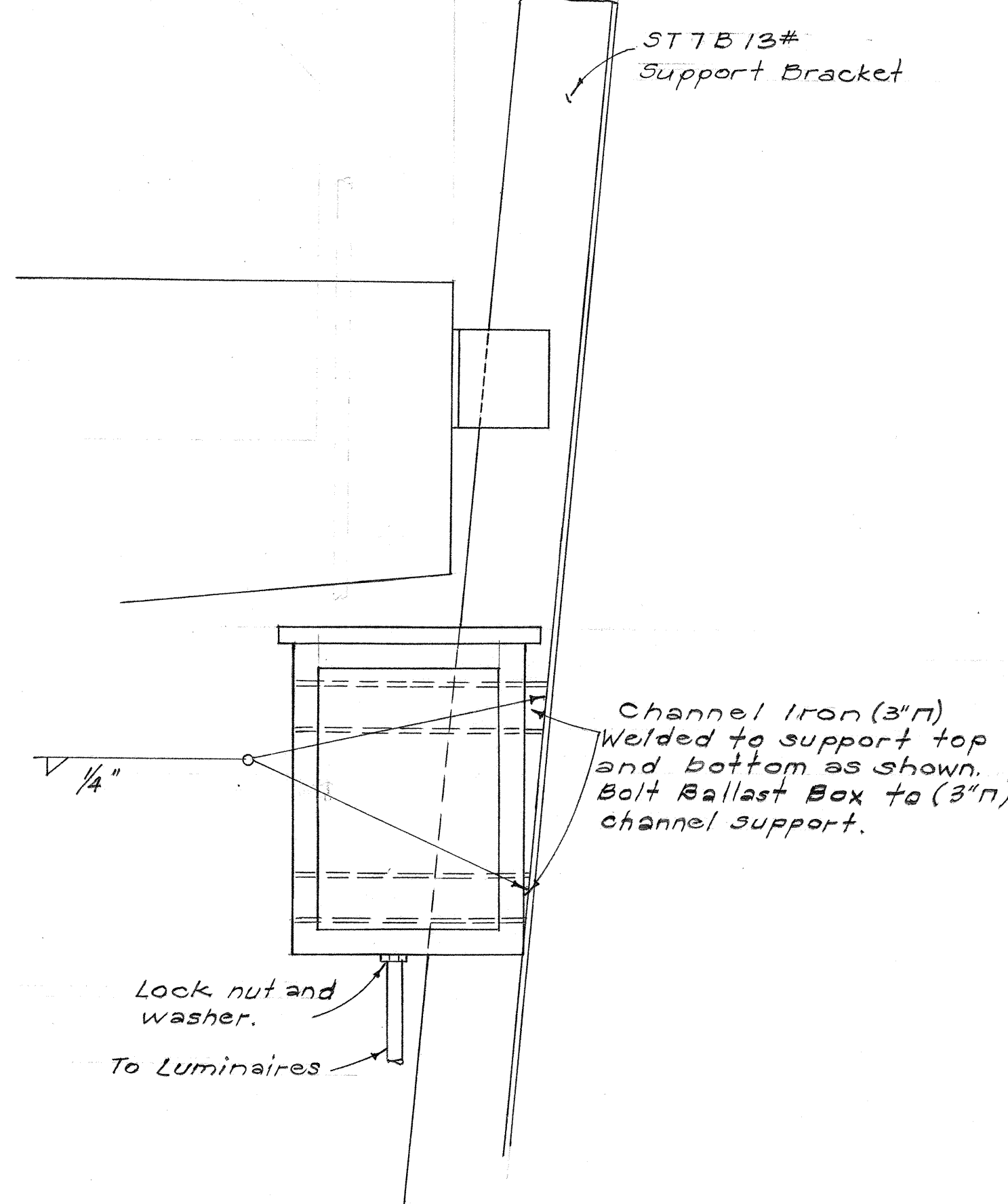
MOUNTING DETAILS

W.P. BALLAST BOX DETAILS

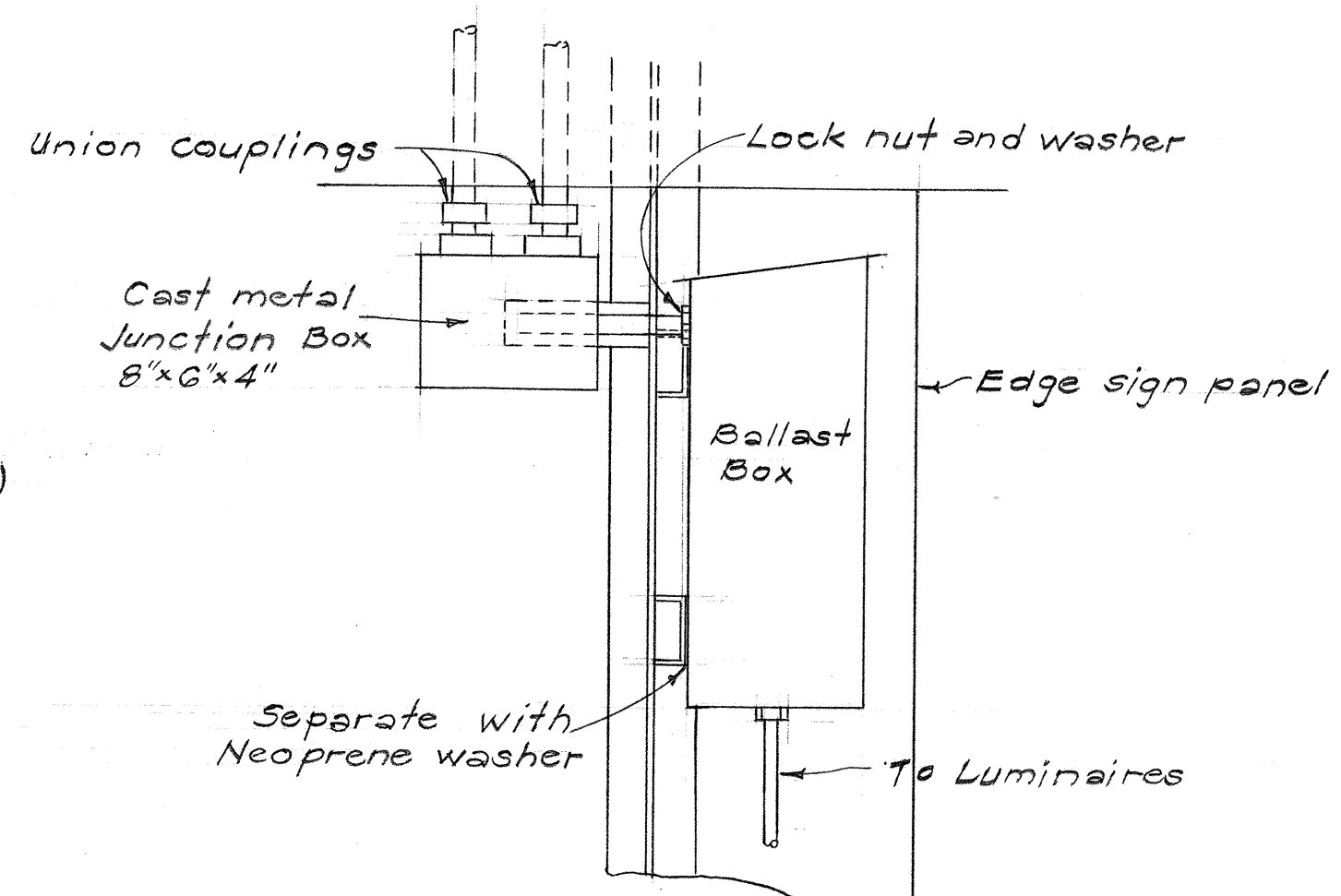
Scale: 1 1/2" = 1'-0"

2-BALLAST - DIMENSIONS

Not to scale



LEFT SIDE VIEW

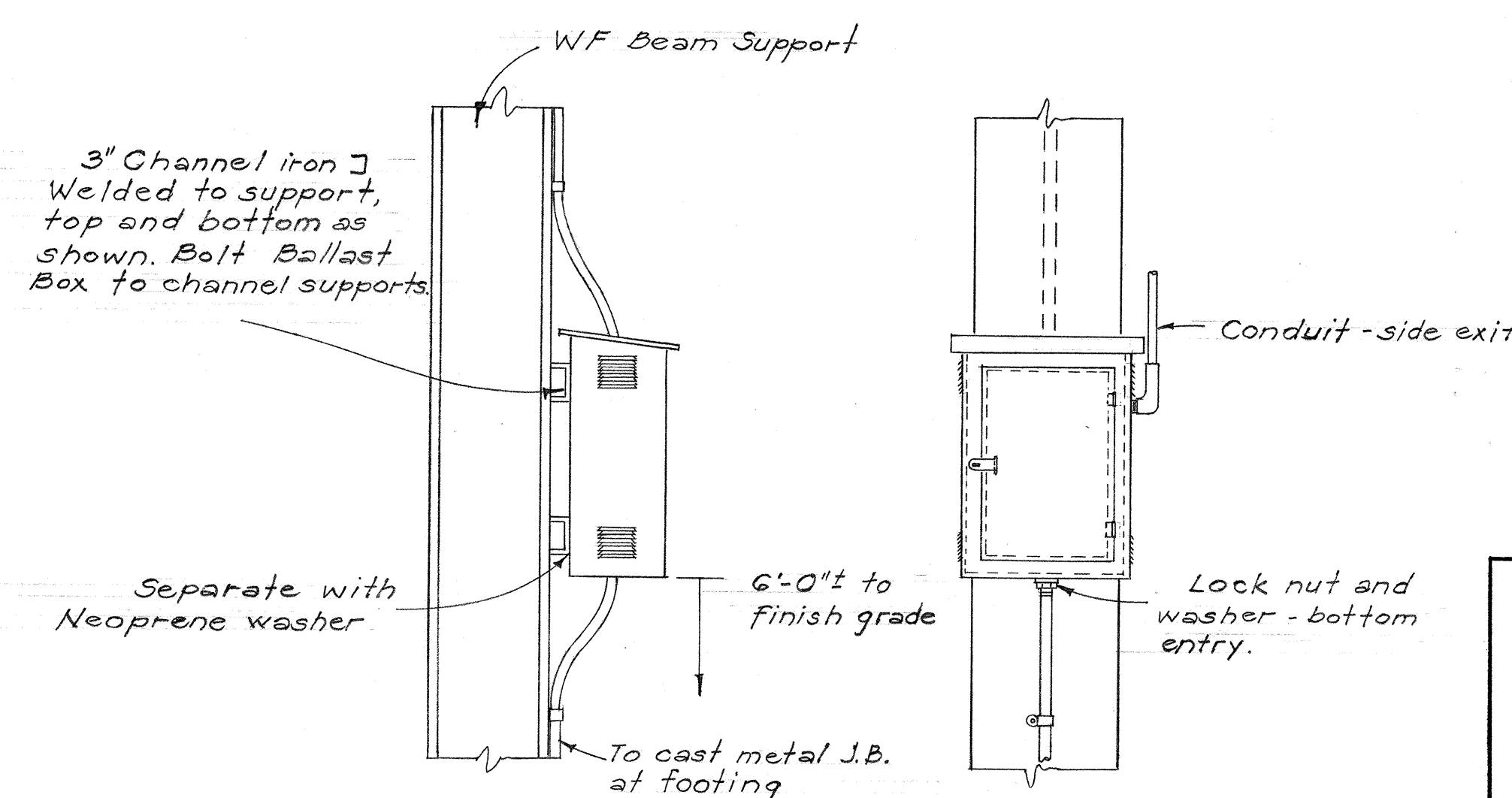


BACK VIEW

AT STRUCTURE MOUNTED SIGN SUPPORT

W.P. BALLAST MOUNTING DETAIL

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



SIDE VIEW

FRONT VIEW

AT GROUND MOUNTED SIGN SUPPORT

W.P. BALLAST MOUNTING DETAIL

Scale: 1" = 1'-0"



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HIGHWAYS DIVISION

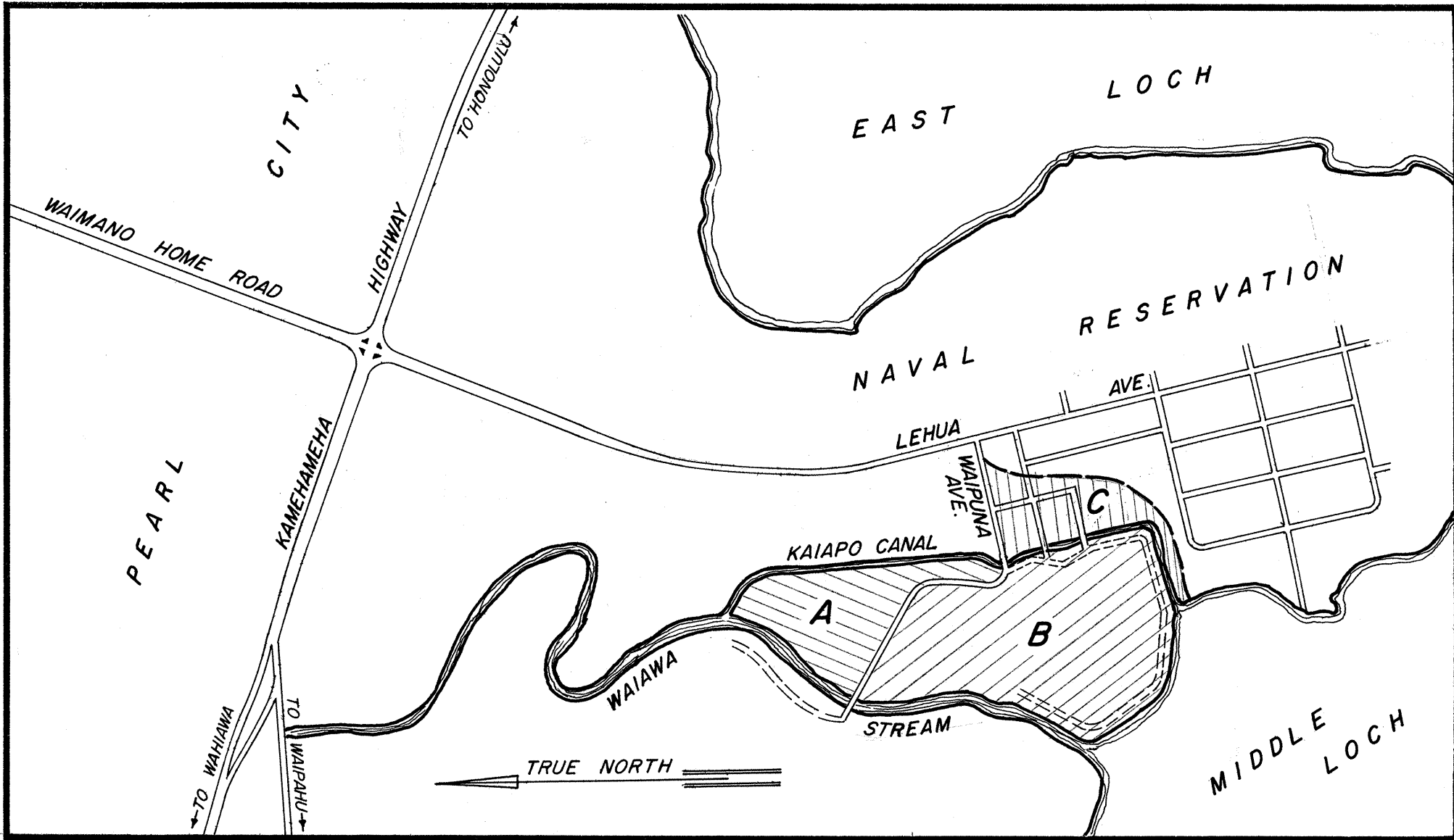
BALLAST MOUNTING
DETAILS

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(64):12,
Unit 2

Scale: As shown Date: 8/10/68

SHEET No. 10 OF 17 SHEETS

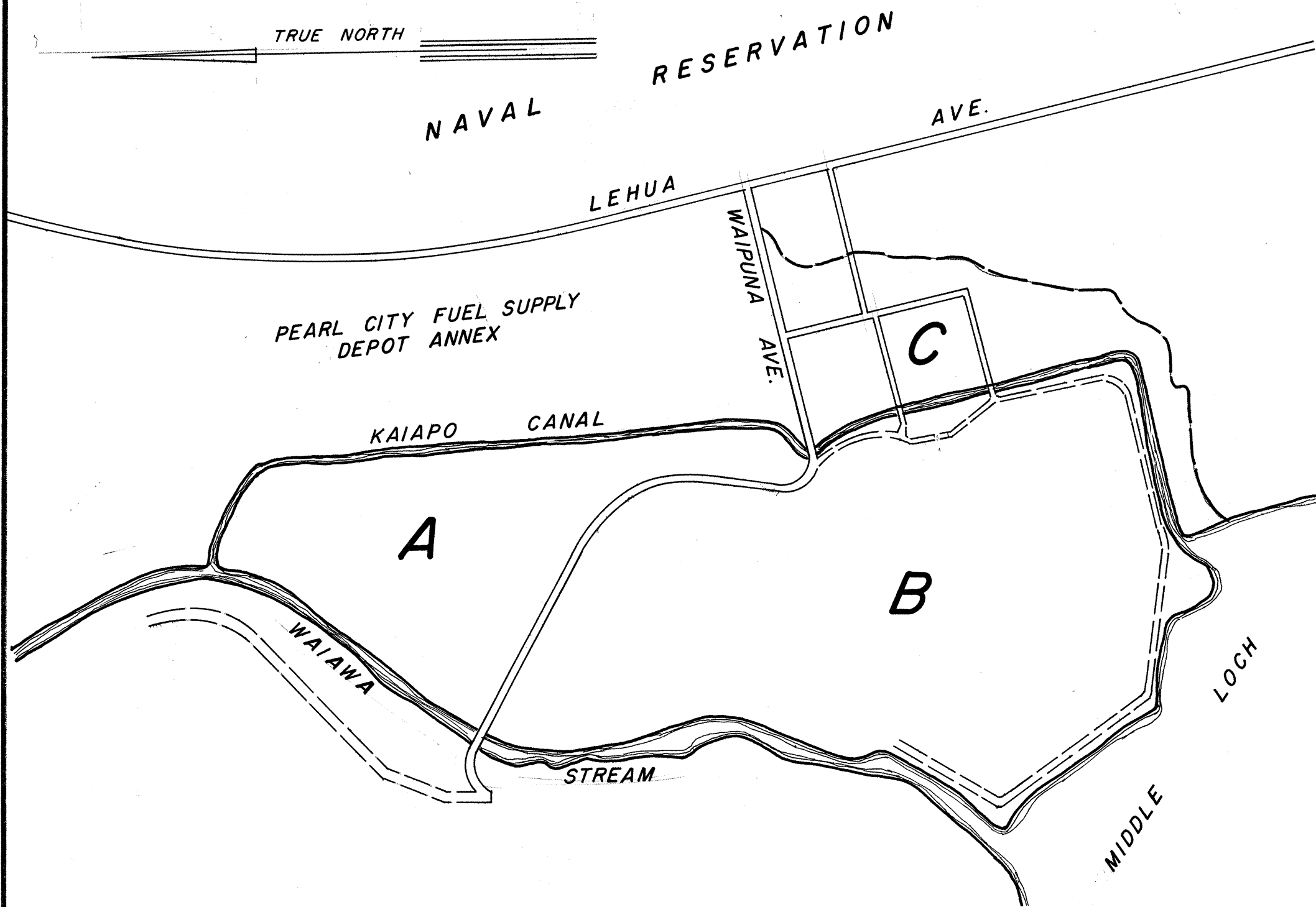
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(64):12 Unit 2	1999	29	128
		I-HI-1(16):11			



LOCATION MAP
SCALE: 1" = 1000'

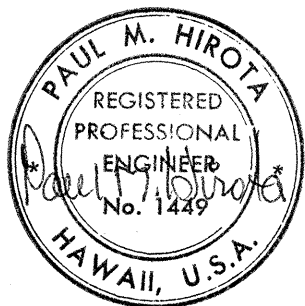
NOTES:

1. The material shall be deposited in Area "C". The fill shall be constructed to approximate elevation +12 in accordance with the requirements of Section 18 Embankment, and compacted to a relative compaction of 90 percent. The finished surface shall be graded smooth. The fill shall be started at Waipuna Avenue and continue Southward. If more material is available than is required to fill Area "C", the excess material shall be deposited across Kaiapo Canal in Area "B" adjacent to Area "C". The edge of the fill, where adjacent to waterways, shall be built with granular material and the fill slope shall be 3:1.
2. The Contractor's hauling equipment and loads shall conform to the State of Hawaii's vehicle weight and loading limitations.
3. The Contractor shall obtain a permit to enter Navy property from the Commander (Code 07), Pacific Division, Naval Facilities Engineering Command, FPO San Francisco 96810 (Telephone No. 43-31217).
4. During construction of the embankment, the Contractor shall apply water to abate dust nuisance as specified in SECTION 23-SPRINKLING of the Special Provisions.



SITE PLAN
PEARL CITY PENINSULA DISPOSAL SITE
SCALE: 1" = 400'

DESIGNED BY	DATE
TRACED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE
PLAN	DATE
NOTE BOOK	DATE
NO.	DATE



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PEARL CITY PENINSULA
DISPOSAL SITE**

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(64):12,
Unit 2

Scale: As Noted Date: 8/16/98

SHEET No. 17 OF 17 SHEETS

29