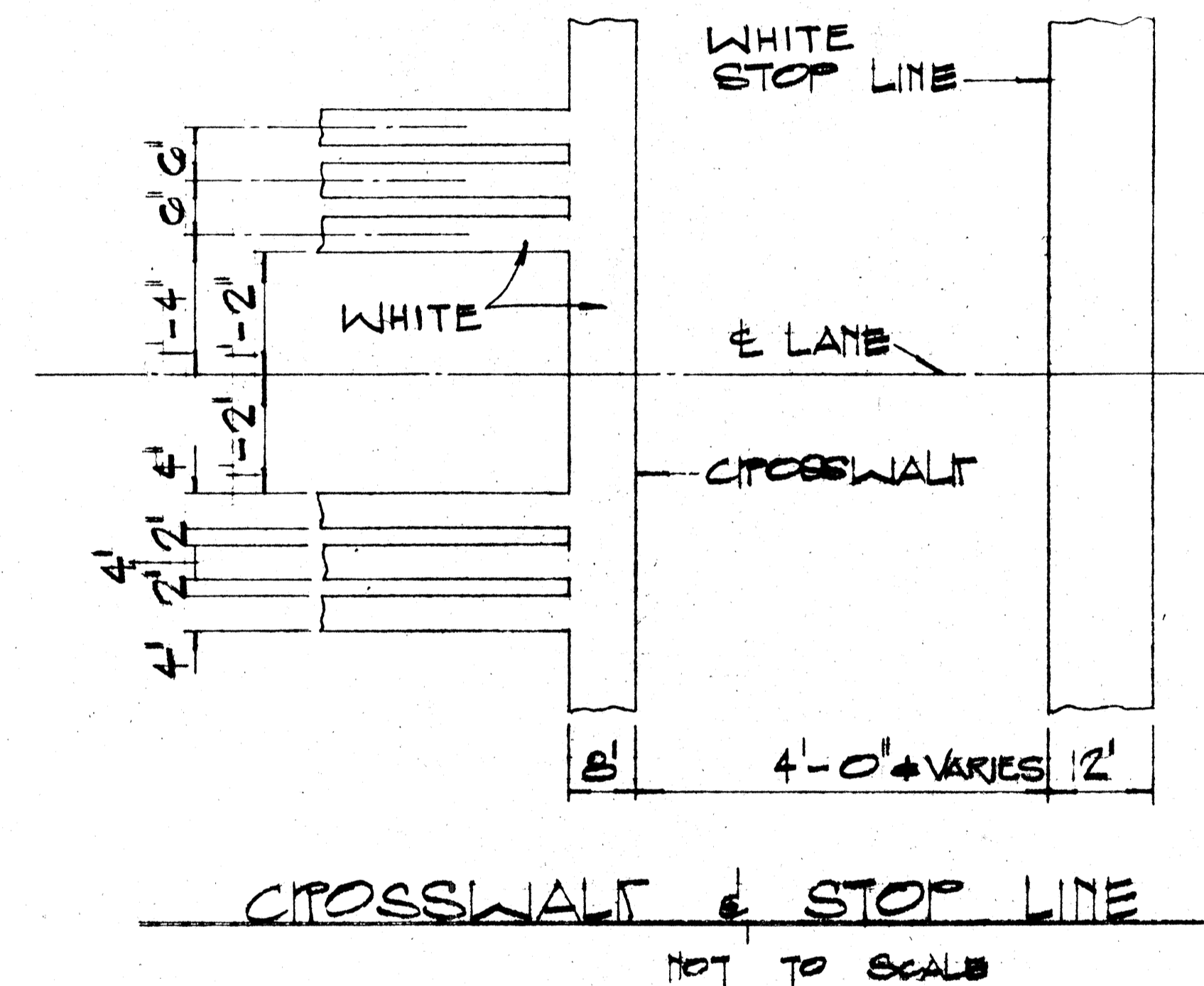
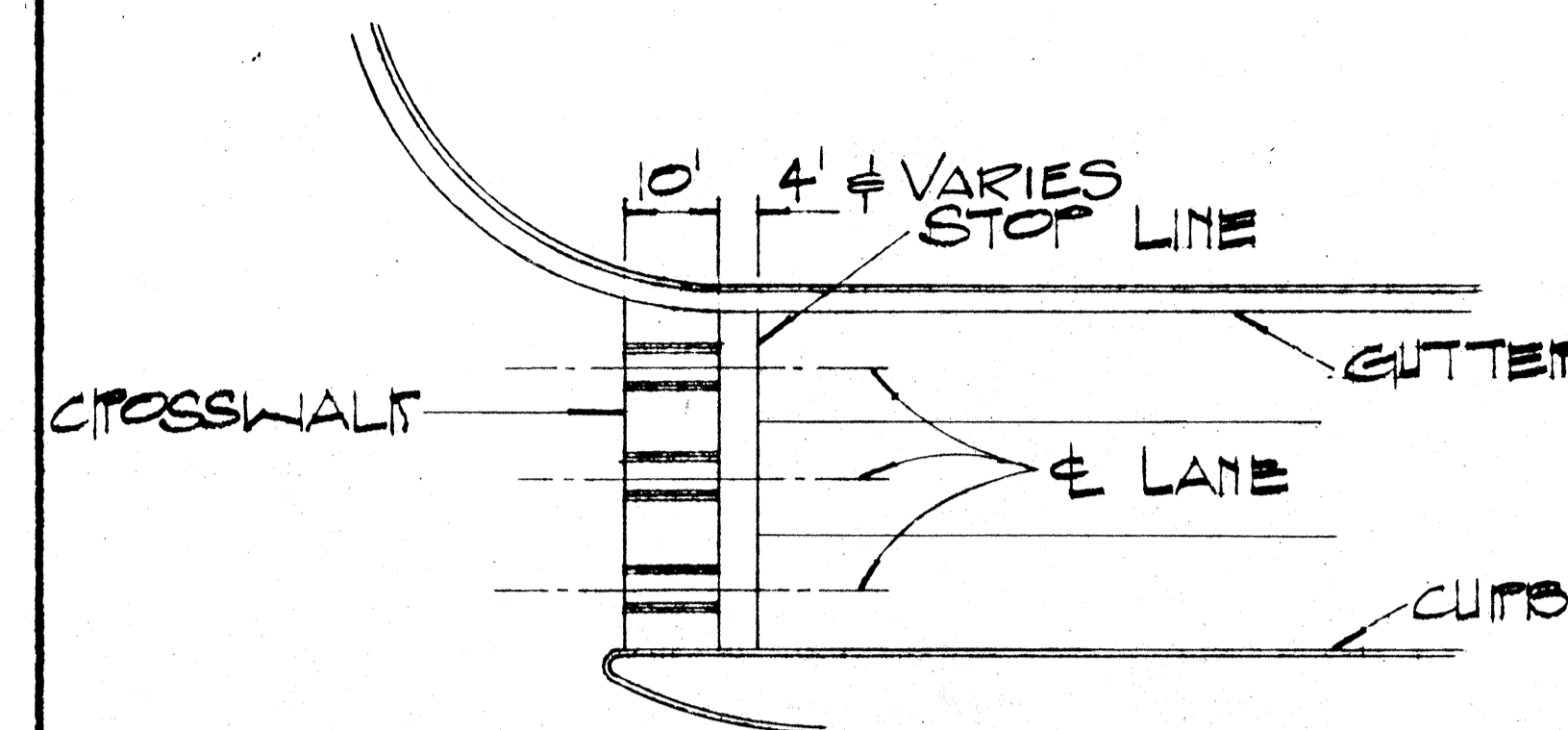
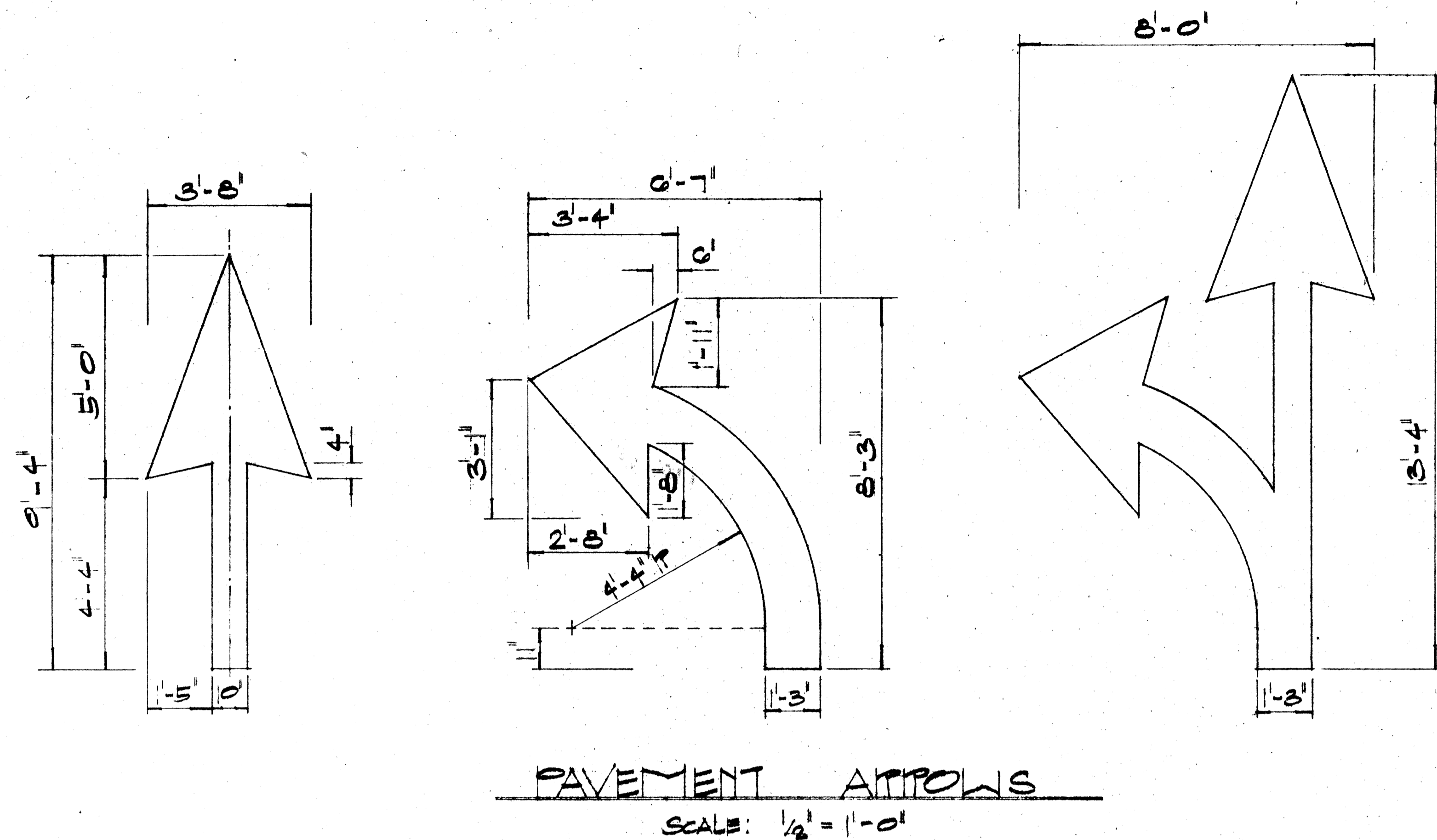


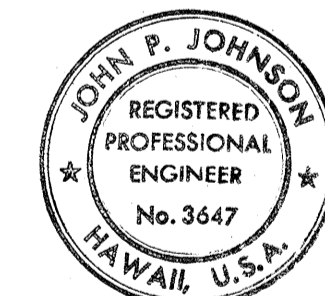
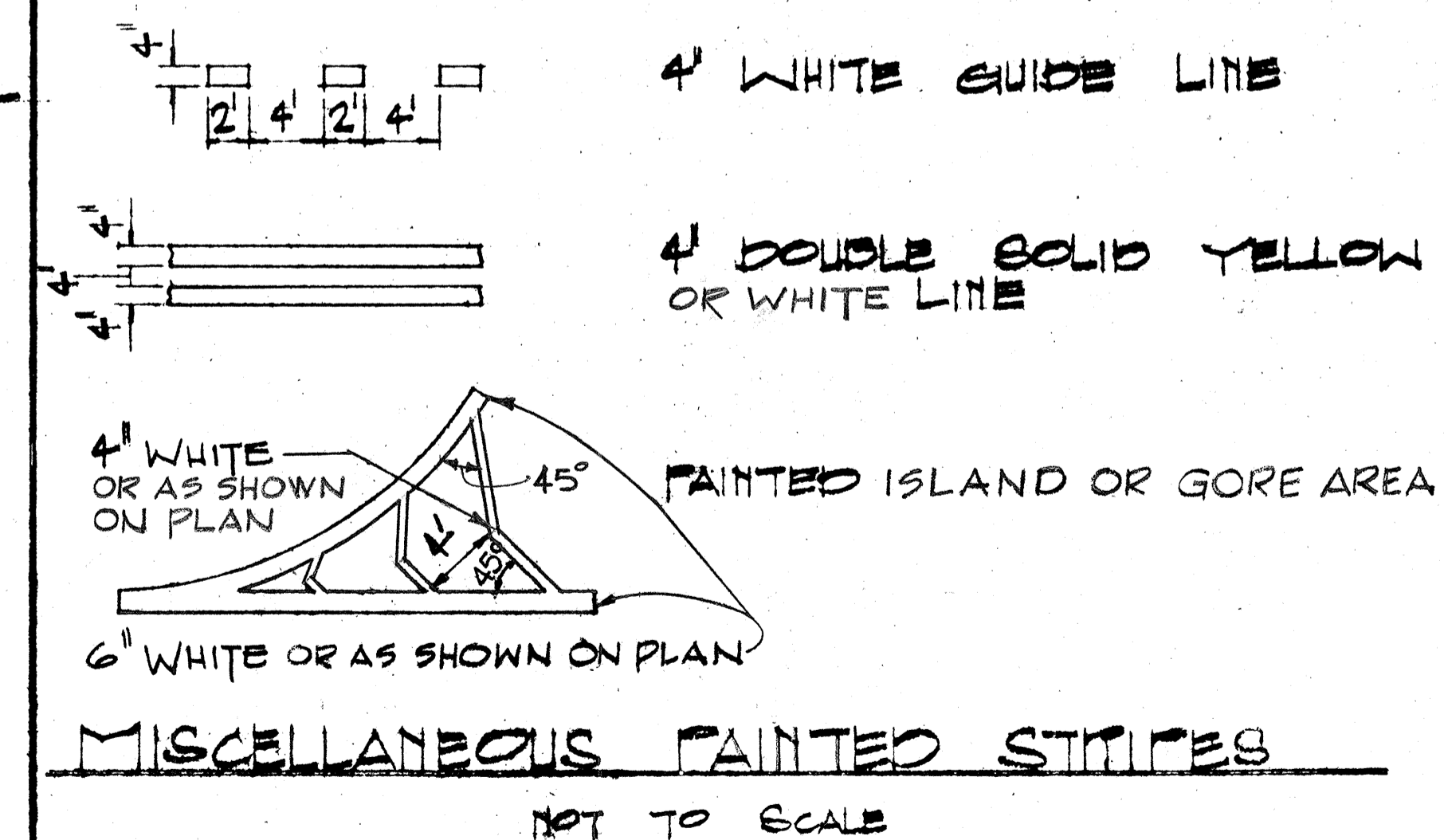
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H1-1(128)17	1975	29	78



- GENERAL NOTES: PAVEMENT MARKING**
- PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS, 1971, AND AS SHOWN ON THE PLANS.
 - PAVEMENT MARKINGS SHALL BE DONE BY THE CONTRACTOR. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 - EXISTING PAVEMENT MARKINGS NOT COMPATIBLE WITH THE DETOUR TRAFFIC PATTERN SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ALL COSTS SHALL BE INCIDENTAL TO THE CONTRACT ITEM "PAVEMENT STRIPING."
 - WHERE THE PROPOSED PAVEMENT MARKINGS ARE NOT COMPATIBLE WITH THE EXISTING PAVEMENT MARKINGS THE WORK SHALL BE DONE IMMEDIATELY BEFORE OR AFTER THE DETOUR TRAFFIC PATTERN IS IN EFFECT AS DIRECTED BY THE ENGINEER. THE TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE SPECIFICATIONS.

- LEGEND: PAVEMENT MARKING**
- — — — 4" BROKEN WHITE LANE LINE 15' LONG WITH 25' GAP.
 - . - . - . 4" BROKEN WHITE LANE LINE 15' LONG W/25' GAP & W/TYPE 'C' MARKERS 40' O.C.
 - — — — 4" SOLID WHITE LANE LINE W/TYPE 'C' MARKERS 20' O.C.
 - ==== 4" DOUBLE SOLID WHITE LINE (SEE DETAIL THIS SHEET) W/TYPE 'C' MARKERS 20' O.C.
 - ==== 4" DOUBLE SOLID YELLOW CENTER LINE (SEE DETAIL THIS SHT.).
 - 4" WHITE GUIDE LINE (SEE DETAIL THIS SHT.).
 - → → PAVEMENT ARROW (SEE DETAIL THIS SHT.)
 - ||||| CROSSWALK & STOP LINE (SEE DETAIL THIS SHT.).
 - ▲▲▲ PAINTED ISLAND OR GORE AREA (SEE DETAIL THIS SHT.).

NOTE:
FOR ADDITIONAL DETAILS ON PAISED PAVEMENT MARKINGS & PAINTED STRIPES, SEE PLAN, SHT. 38.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

John P. Johnson

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING
DETAILS**

INTERSTATE ROUTE H-1
PROJECT NO. I-H1-1 (128)17

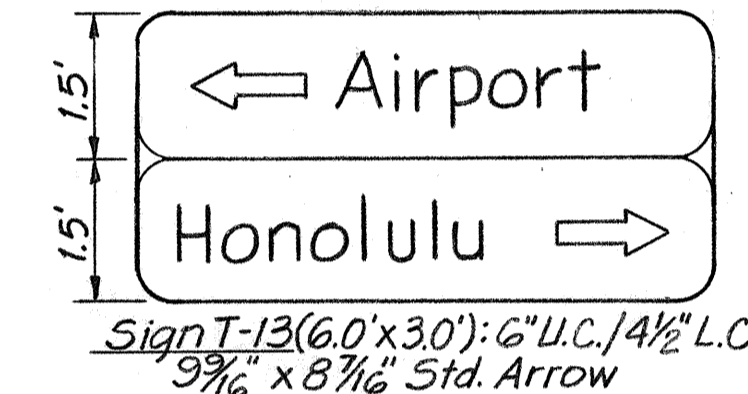
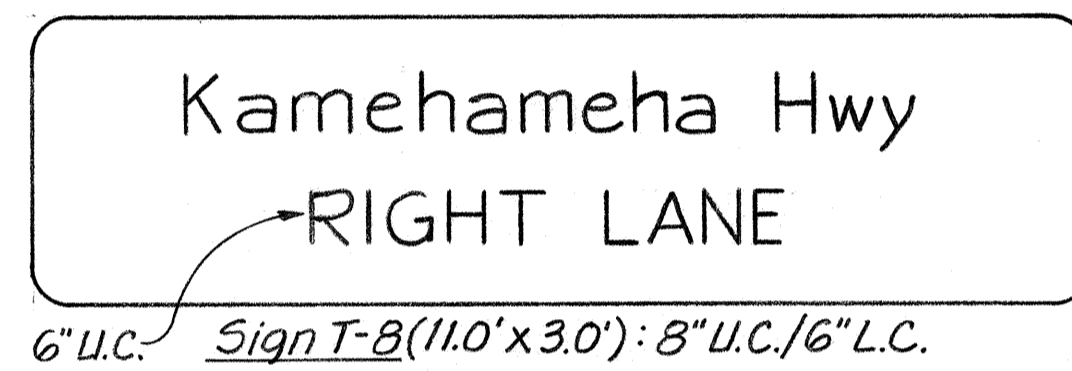
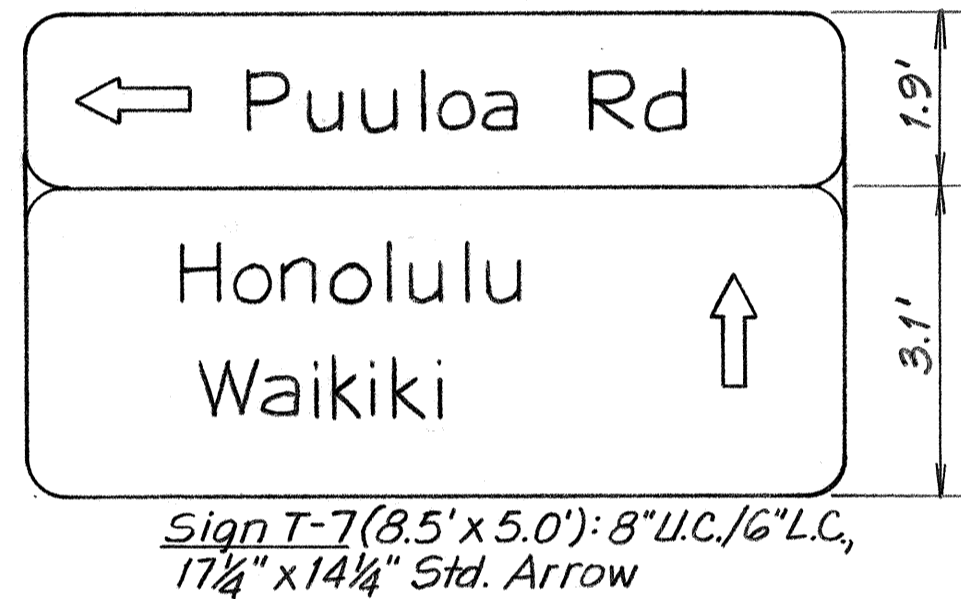
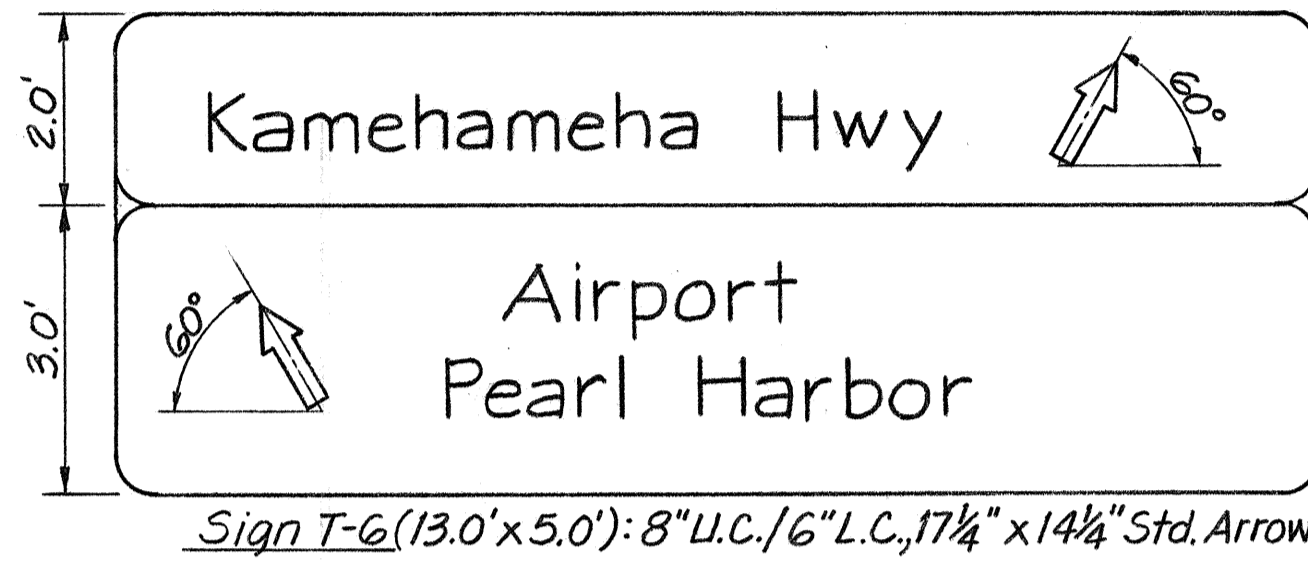
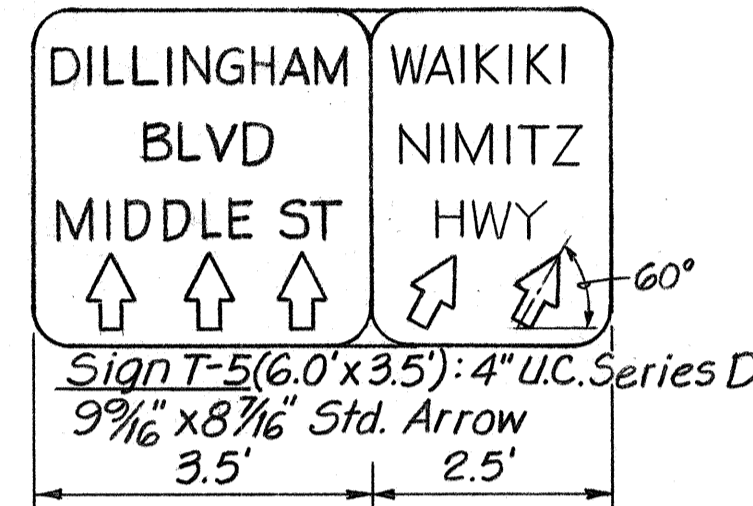
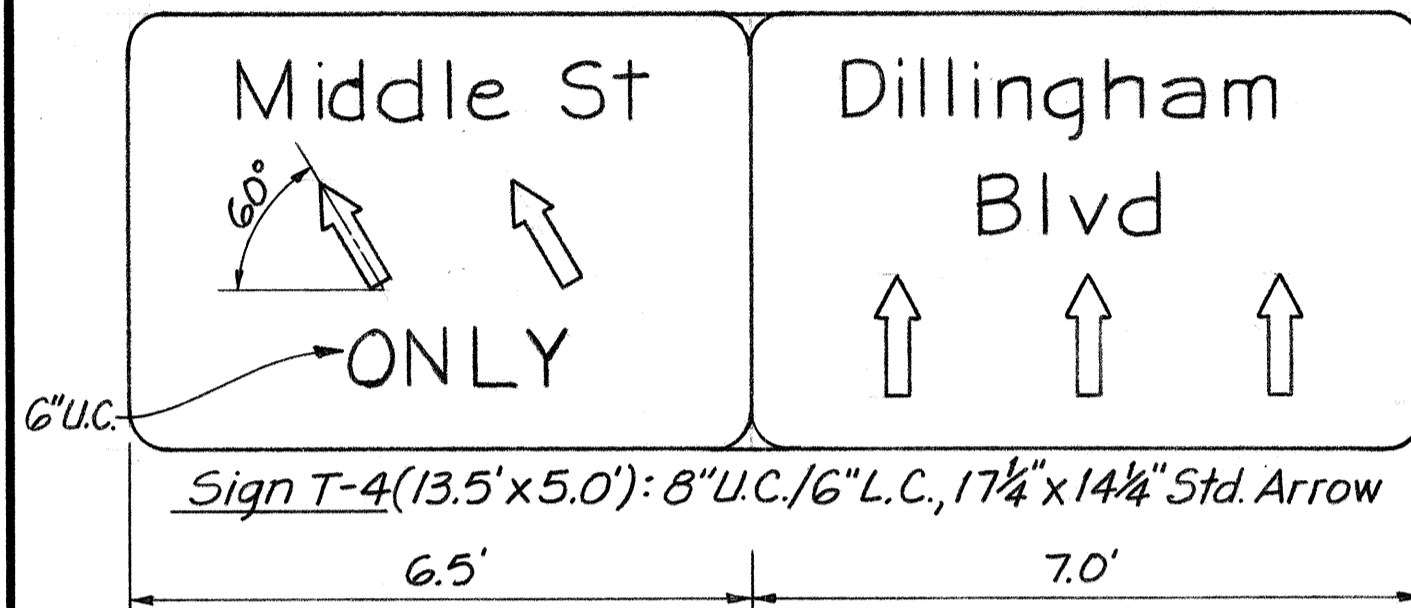
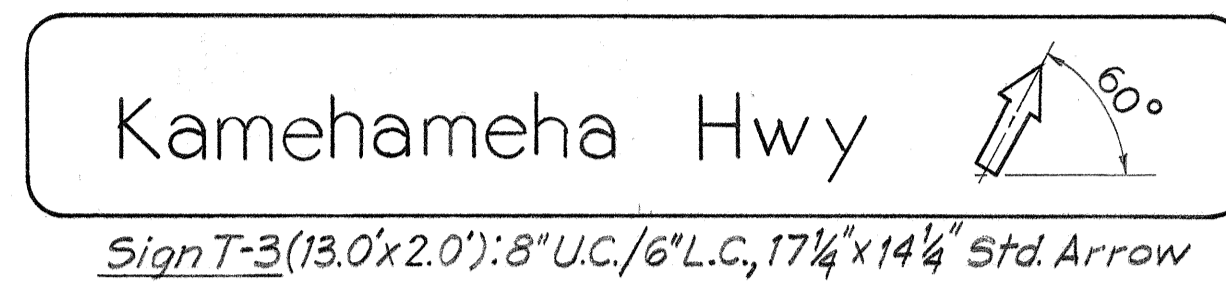
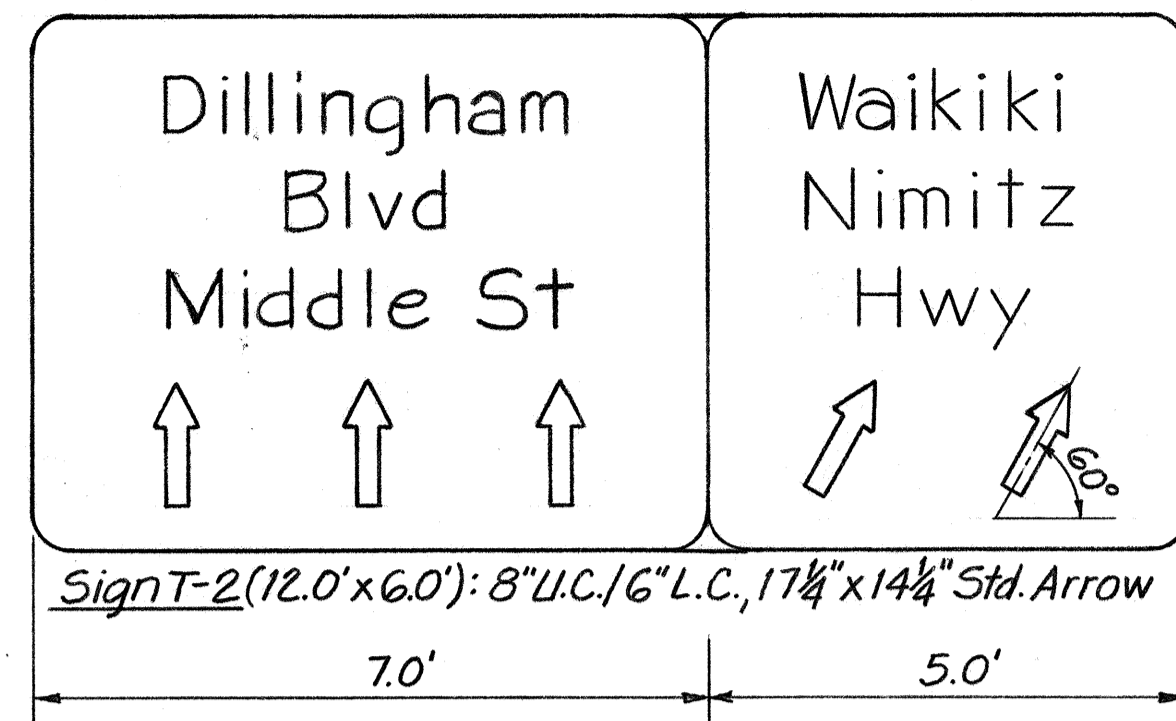
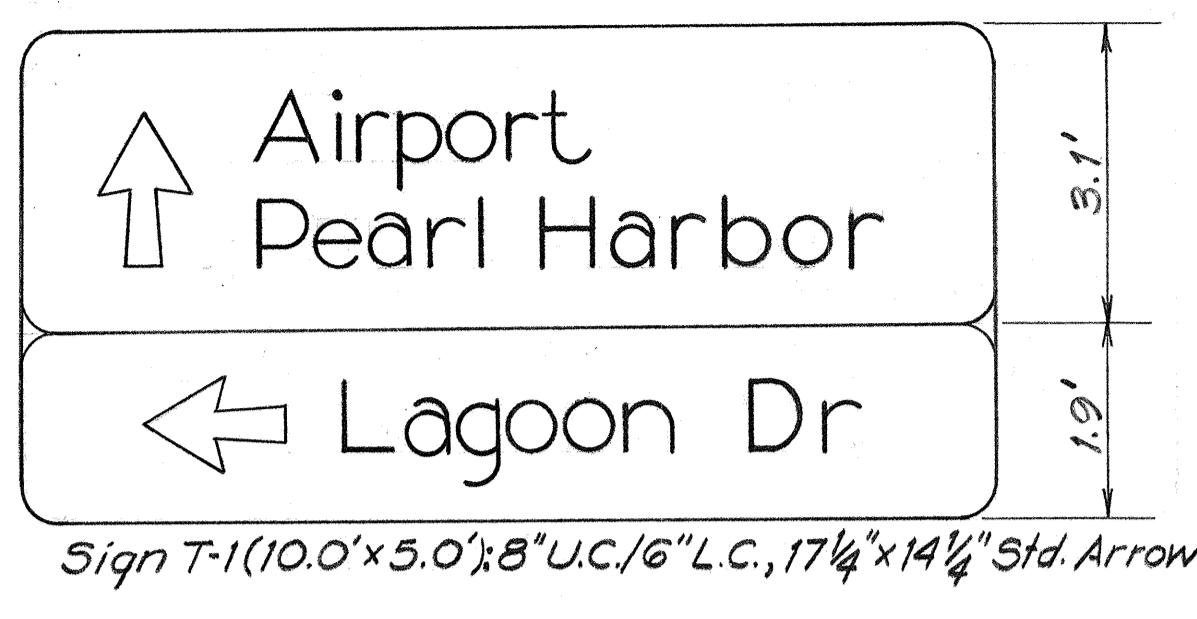
SCALE: AS SHOWN DATE: DEC 13, 1974

SHEET No. 1 OF 11 SHEETS

DATE	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	

TEMPORARY DIRECTIONAL SIGNS FOR DETOURS

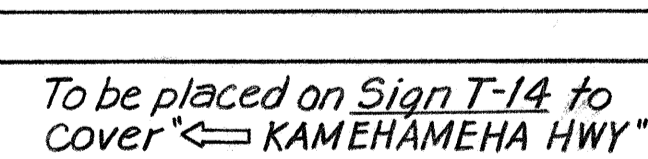
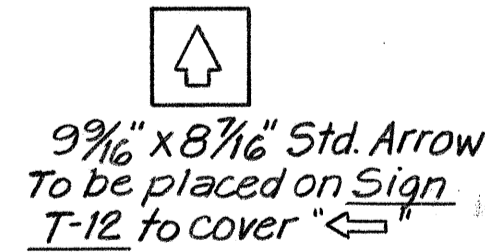
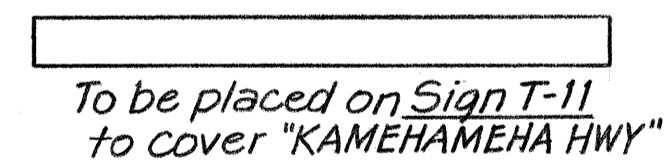
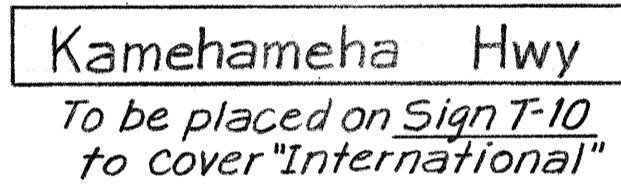
Scale: 1/2" = 1'-0"



GENERAL NOTES FOR TEMPORARY DIRECTIONAL SIGNS FOR DETOURS

- Exact Locations of Temporary Directional Signs will be determined in the Field by the Engineer.
- Signs designated on Plans to be relocated will be paid under "Relocation of Existing Regulatory, Warning, or Directional Signs". All other Relocations of Signs during Construction shall be considered Incidental to various Contract Items.
- Type of Sign Mounting will be at the Contractor's Option, subject to Approval by the Engineer.
- Mounting to be Incidental to Sign Panels.
- Material used for Sign Panels shall be 3/4" thick, waterproof, Fir Plywood. Contractor may submit alternative, subject to the Approval of the Engineer.
- Letters, symbols, and border shall be of white high intensity reflective sheeting on a green background of high intensity reflective sheeting.
- Letters shall be of the modified Series E Uppercase and Lowercase or as shown. Letter spacing for Line Messages shall meet the Requirements established by the Bureau of Public Roads, U.S. Department of Commerce, in its Reference Guide, "Standard Alphabets for Highway Signs", 1966 Edition. Revisions to Sign Panel Layouts and/or Dimensions shall be subject to the Approval of the Engineer.
- Sign borders and separation lines (Vertical or Horizontal) shall be 3/4" inch wide and shall have a radius of 4-inches at corners. Corners need not be trimmed.
- Overlay Panels, with or without Message, shall meet the same Requirements as Temporary Directional Signs. Lettering Size, Style, Color, and Reflectorization shall be the same as on the existing Sign. Dimensions of Overlay Panels shall be established in the Field by the Engineer.
- Signs shall be covered with Polyethylene Sheeting until the Detours are Operational. Payment shall be considered Incidental to Sign Panels.
- Signs are to remain upon Completion of Construction and shall become the property of the State.

OVERLAY PANELS FOR EXISTING SIGNS



LEGEND

U.C. Uppercase
L.C. Lowercase
Std. Standard

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H1-1(128)	1975	30	78

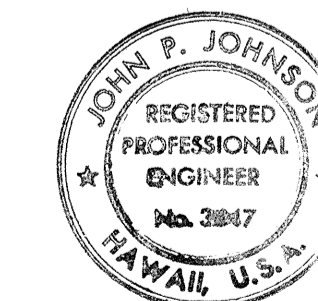
CONSTRUCTION AND DETOUR SIGNING SUMMARY

TYPE	DESCRIPTION	CONSTRUCTION		DETOURS		TYPE	DESCRIPTION	CONSTRUCTION		DETOURS	
		W/O POST	W/POST	W/O POST	W/POST			W/O POST	W/POST		
R1-1	STOP					W4-1(L)-A	MERGE ↑				1
R1-2	YIELD					W4-2(R)	∩				1
R1-2-A	YIELD					W4-2(R)-A	∩				1
R2-1(35)	SPEED LIMIT 35	1	5			W9-1(R)-A	RIGHT LANE ENDS				1
R3-1	NO RIGHT TURN			1	1	W9-1(R)	RIGHT LANE ENDS				1
R3-2	NO LEFT TURN			2	1	W9-2(L)	LANE ENDS-MERGE LEFT				1
R3-3	NO TURNS			3	4	W9-2(L)-A	LANE ENDS-MERGE LEFT				1
R3-4	NO LI TURN			2		W13-1(25)-A	25 M.P.H.				6
R3-7(R)	RIGHT LANE MUST TURN RIGHT					CW20-1a	ROAD CONSTRUCTION 1500 FT			8	
R4-7	KEEP RIGHT →			1	1	CW20-1b	ROAD CONSTRUCTION 1000 FT			9	
R6-1(R)	ONE WAY →					CW20-1c	ROAD CONSTRUCTION 500 FT			7	
R6-1(L)	← ONE WAY					CW20-1d	ROAD CONSTRUCTION AHEAD			2	
R7-1	NO PARKING ANY TIME					CW20-2a	DETOUR 1500 FT				2
R11-2	ROAD CLOSED					CW20-2b	DETOUR 1000 FT				2
R16-2	MOVE ONLY IN DIRECTION OF GREEN ARROW					CW20-2d	DETOUR AHEAD				1
W1-4(R)						CG20-1(A)	ROAD CONSTRUCTION 4 MI.			4	
W1-4(R)-A						CG20-2	END CONSTRUCTION	1		6	
W1-4(L)-A							TOTAL	2	41	25	39
W1-6				1		Class I	Barricade (Reflectorized)				24
W1-7				2		Cone	Tubular (Reflectorized)				63
R4-7a	KEEP RIGHT →										1
	NO LEFT TURN AT NIMITZ HWY										1

GENERAL NOTES FOR TEMPORARY SIGNING OF DETOURS

- Unless noted otherwise, exact location of Signs, Barricades, and Cones will be determined by the Engineer.
- Contractor may substitute Portable or Temporary Mountings for Post Mountings for Construction and Maintenance Signs with the approval of the Engineer.
- Existing Regulatory, Warning, and Directional Signs to be relocated or removed shall remain in place as long as the existing Traffic Pattern is in effect, unless otherwise directed by the Engineer.
- Removal and Storing of existing Signs shall be considered Incidental to various Contract Items.
- Signs designated on Plans to be relocated will be paid under "Relocation of Existing Regulatory, Warning, or Directional Sign". All other Relocation of Signs during construction shall be considered Incidental to various Contract Items.
- All proposed Signs not Compatible with the existing Traffic Pattern shall be covered with Polyethylene Sheeting until the Detours are Operational. Payment shall be considered Incidental to Signs.
- Contractor is responsible for Maintaining all Signs in good condition during Life of Project.
- Signs, Tubular Cones, and Barricade Warning Lights shall conform to the Requirements in the "Manual on Uniform Traffic Control Devices for Streets and Highways", unless otherwise specified.
- All proposed Signs, Barricades and Cones are to remain, upon completion of construction, and shall become the property of the State.

DATE: _____
 SURVEY PLOTTED BY: _____
 DRAWN BY: _____
 TRACED BY: _____
 NOTE BOOK NO. _____
 DESIGNED BY: _____
 CHECKED BY: _____



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

John P. Johnson

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION SIGN DETAILS

INTERSTATE ROUTE H-1
PROJECT NO. I-H1-1 (128):17

SCALE: 1/2" = 1'-0" DATE: DEC 13, 1974

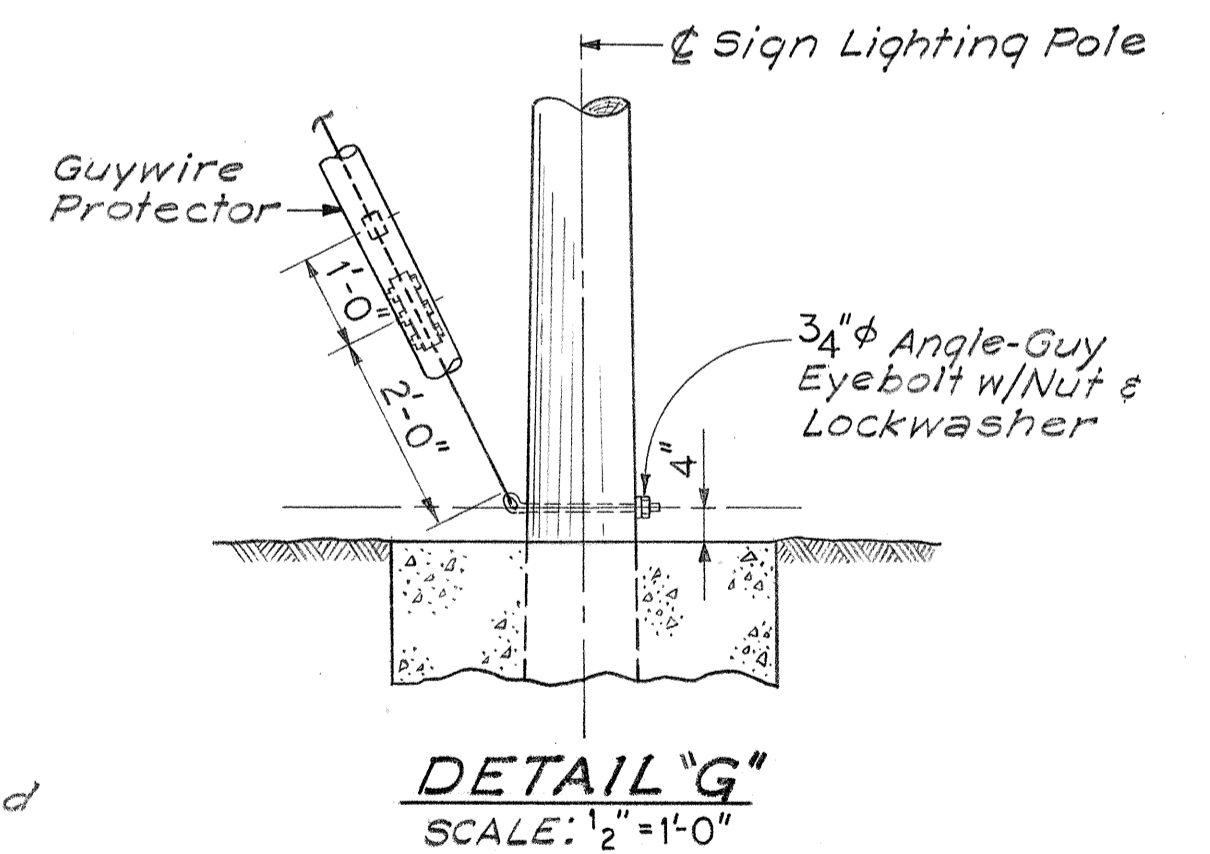
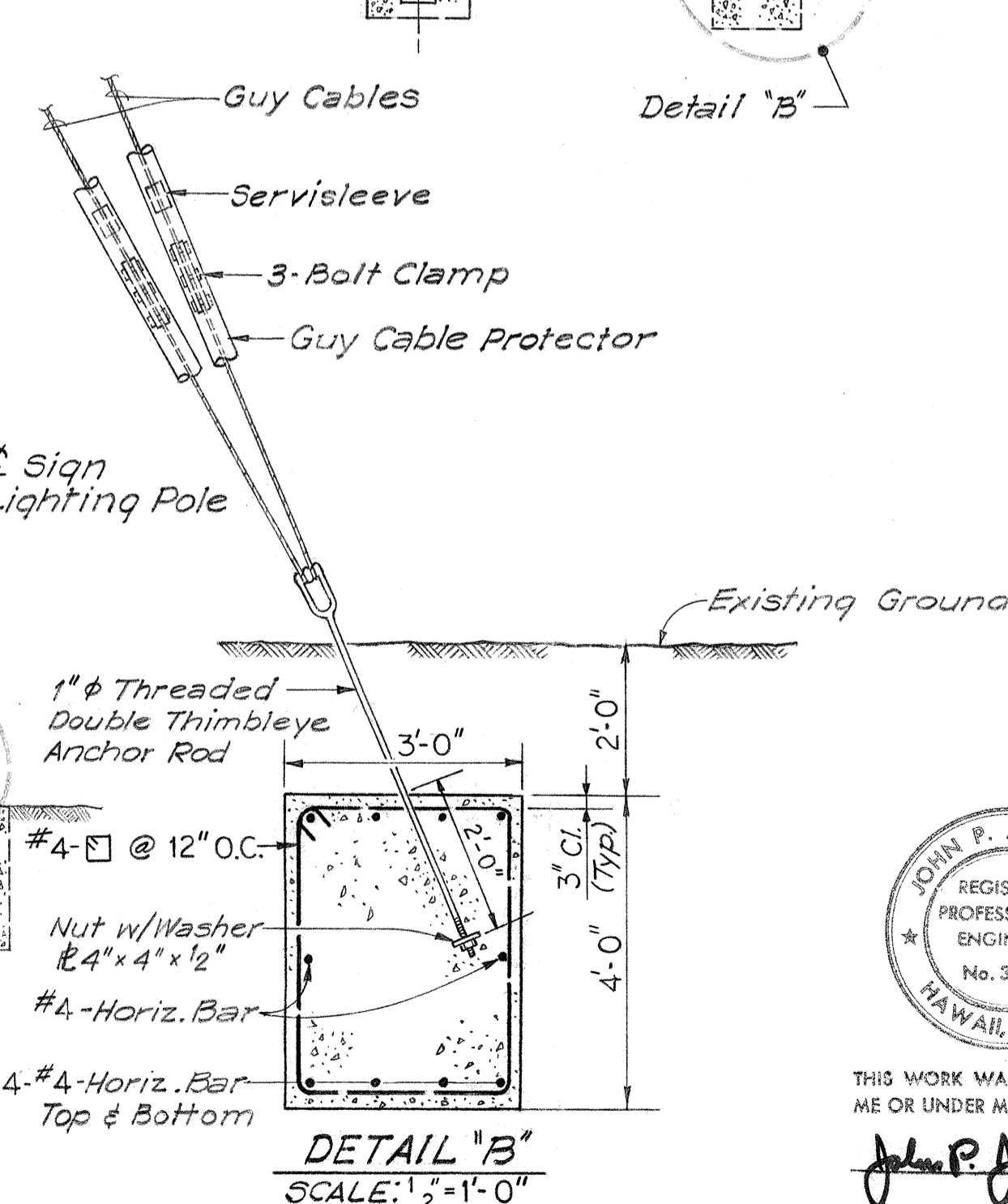
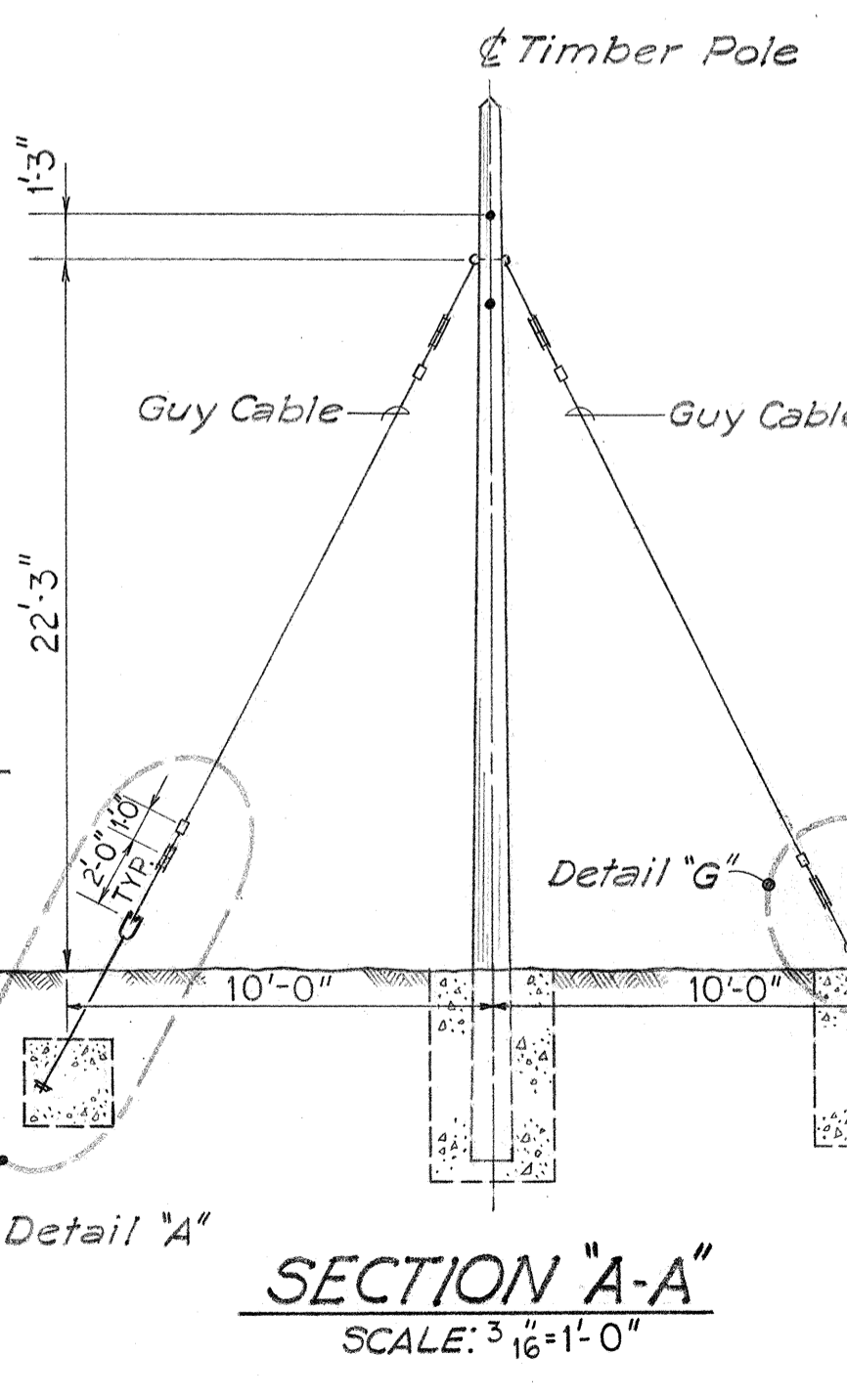
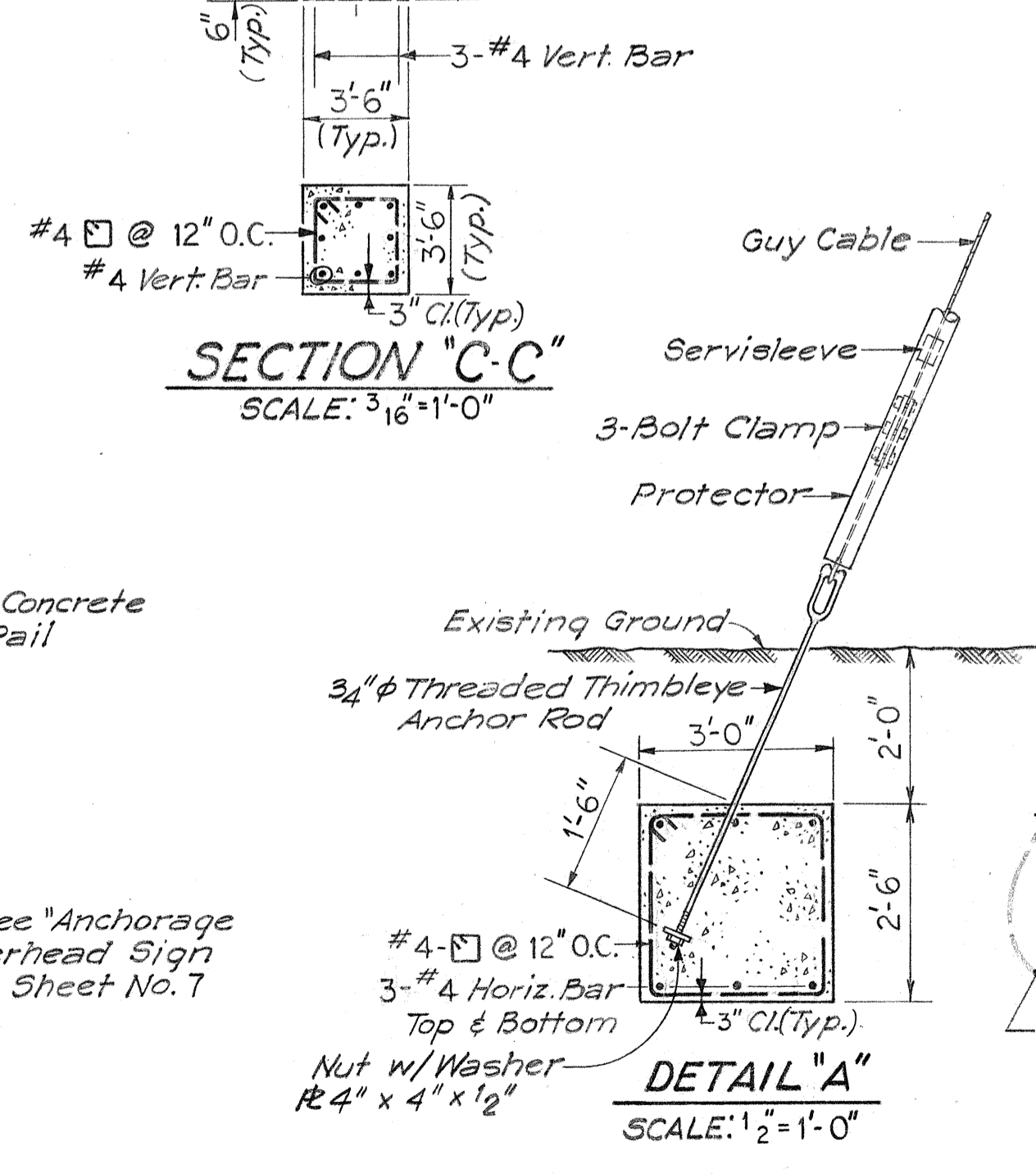
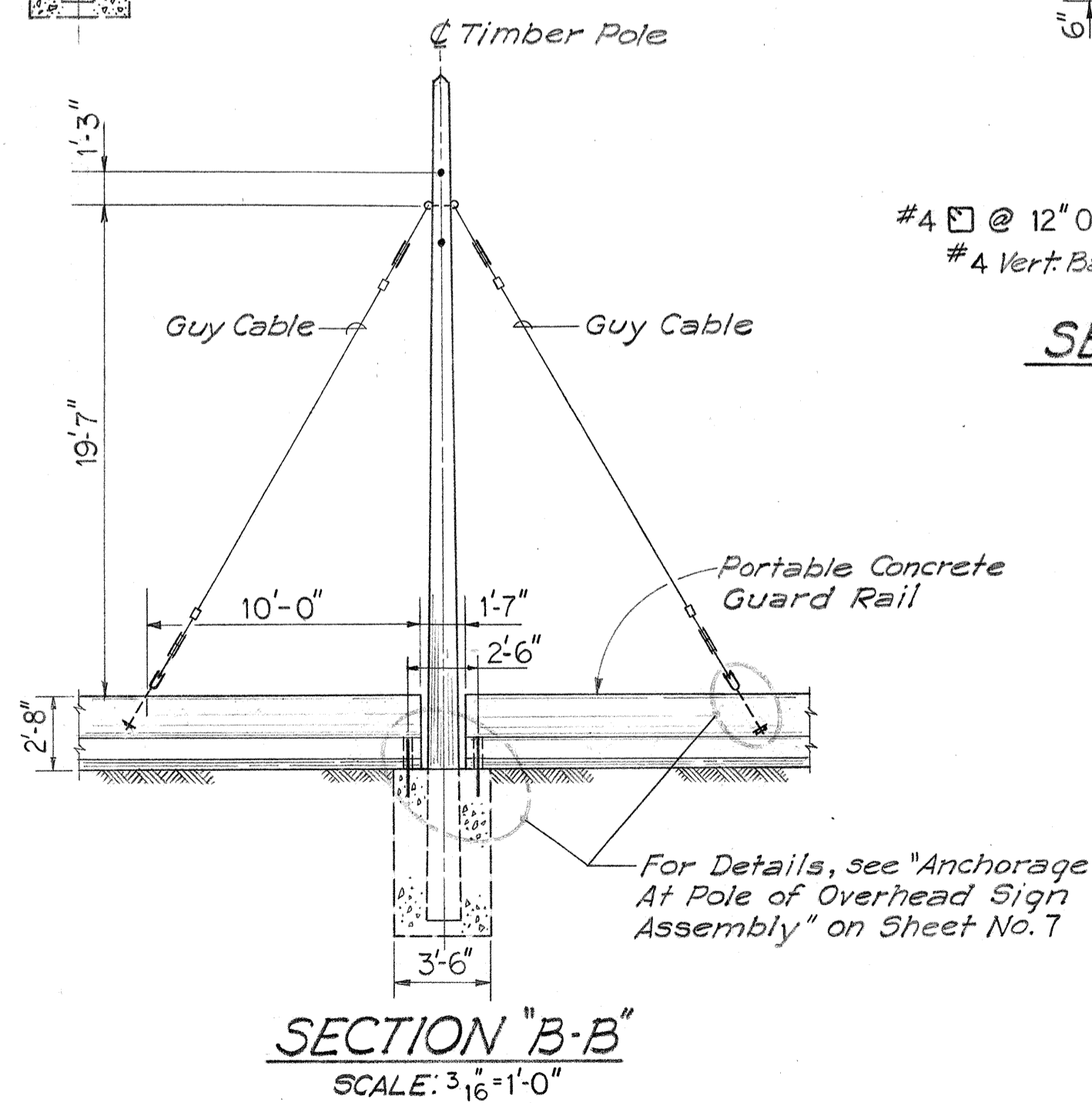
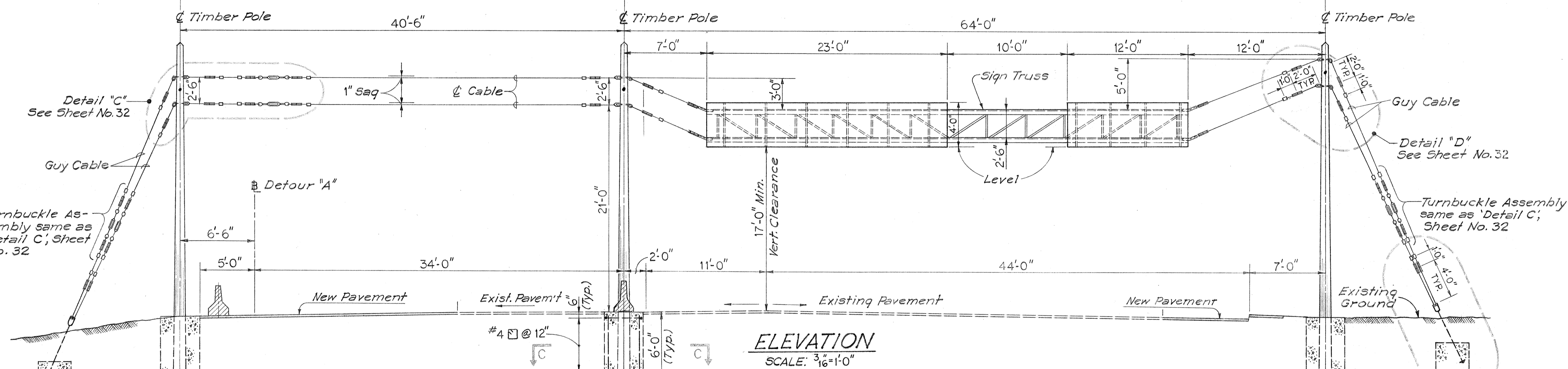
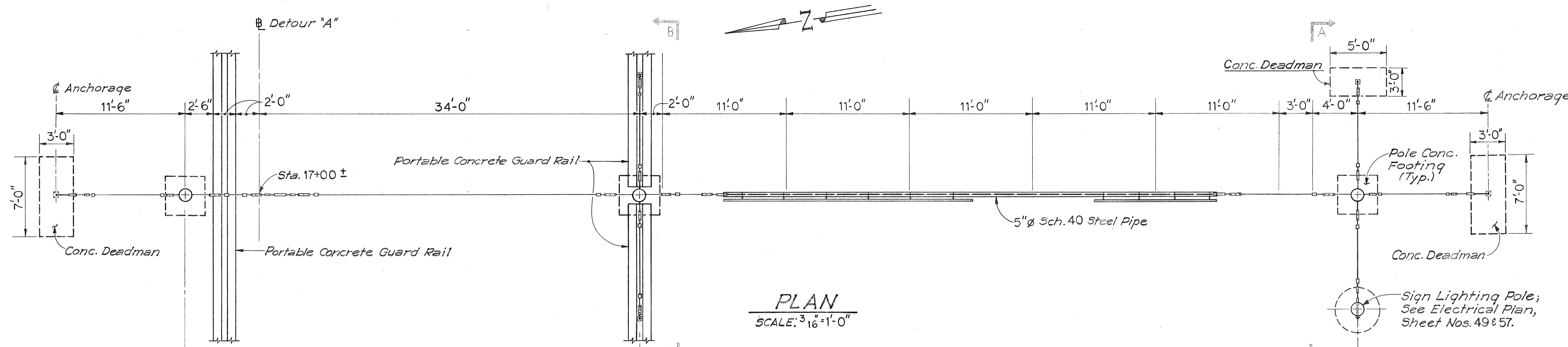
SHEET No. 2 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(128):17	1975	31	78

GENERAL NOTES:

- DESIGN DATA:**
 - Concrete: $f'_c = 3,000$ psi, $f_c = 1,200$ psi, $n = 10$
 - Reinf. Steel: ASTM A615, Grade 40, $f_s = 20,000$ psi.
 - Timber: Modulus of Elasticity = 1,700,000 psi, $E = 1,750$ psi.
 - Cable: All Cables are $\frac{1}{2}$ " Zinc-Coated Steel Strand, Utility Grade, with Ultimate Tensile Strength = 25,000 lb.
 - Steel Pipe: ASTM A-53, $f_s = 35,000$ psi
 - Aluminum: Alloy 6061-T6.
- SPECIFICATION:**

"AASHTO Specification For Design and Construction of Structural Supports For Highway Signs", 1968.
- All Guy Anchorage Rods and Cable Accessories shall be galvanized.
- All Timber Poles are 35-foot creosoted Douglas Fir or Southern Pine poles, ASA Class 3, with min. circumferences: At Top = 23 inches, at 6 feet from Butt = 32 inches.
- The Cable dimensions shown are based on Temperature @ 68°F.
- The Sign Truss & Sign Panels shall be supported during construction until all Cables, including Guys, are installed.
- When installing Guy Cables, the Contractor shall tension the Guys and gradually release the Sign Truss simultaneously so as to keep the Poles plumb.
- Deadmen & Sign Footings shall be of Class B Concrete.
- The Concrete Footings shall be excavated and poured to neat lines.
- All parts of Sign Truss shall be prime coated with a suitable primer and painted with three coats of dark green enamel.



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

OVERHEAD SIGN ASSEMBLY

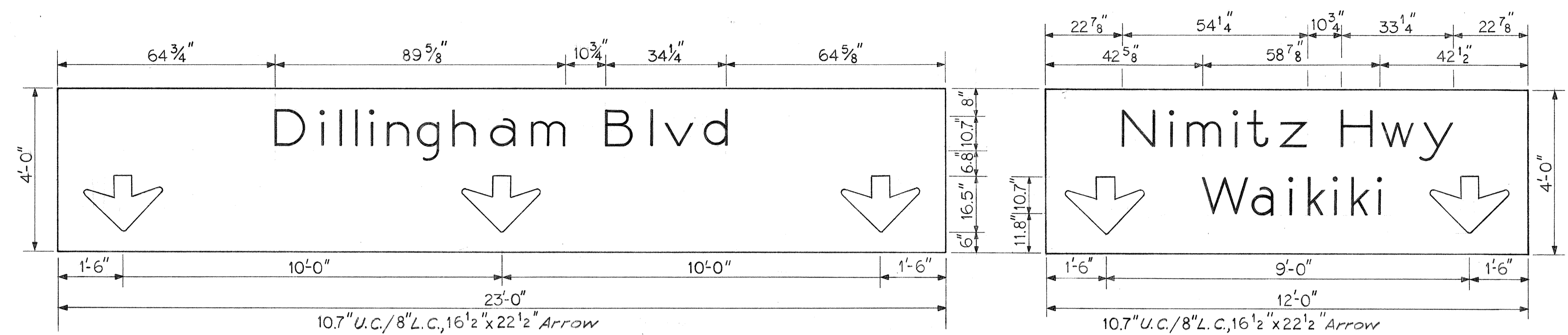
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1 (128):17

Scale: As Shown Date: DEC 13, 1974
SHEET NO. 3 OF 11 SHEETS

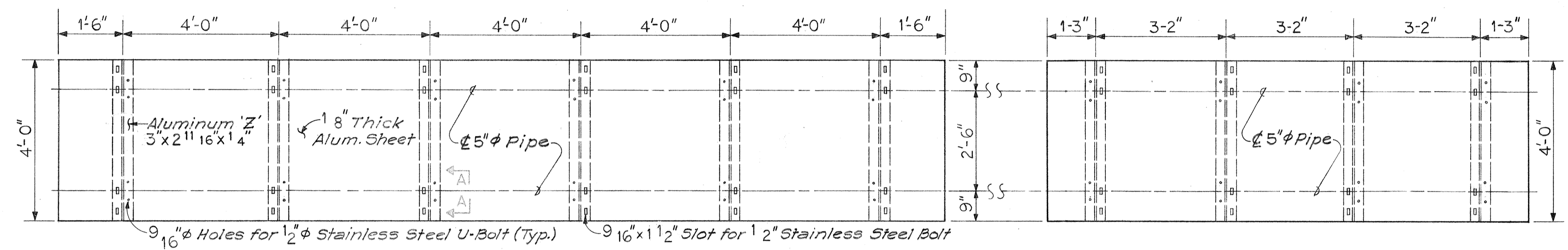
JOHN P. JOHNSON
REGISTERED PROFESSIONAL ENGINEER
No. 3647
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
John P. Johnson

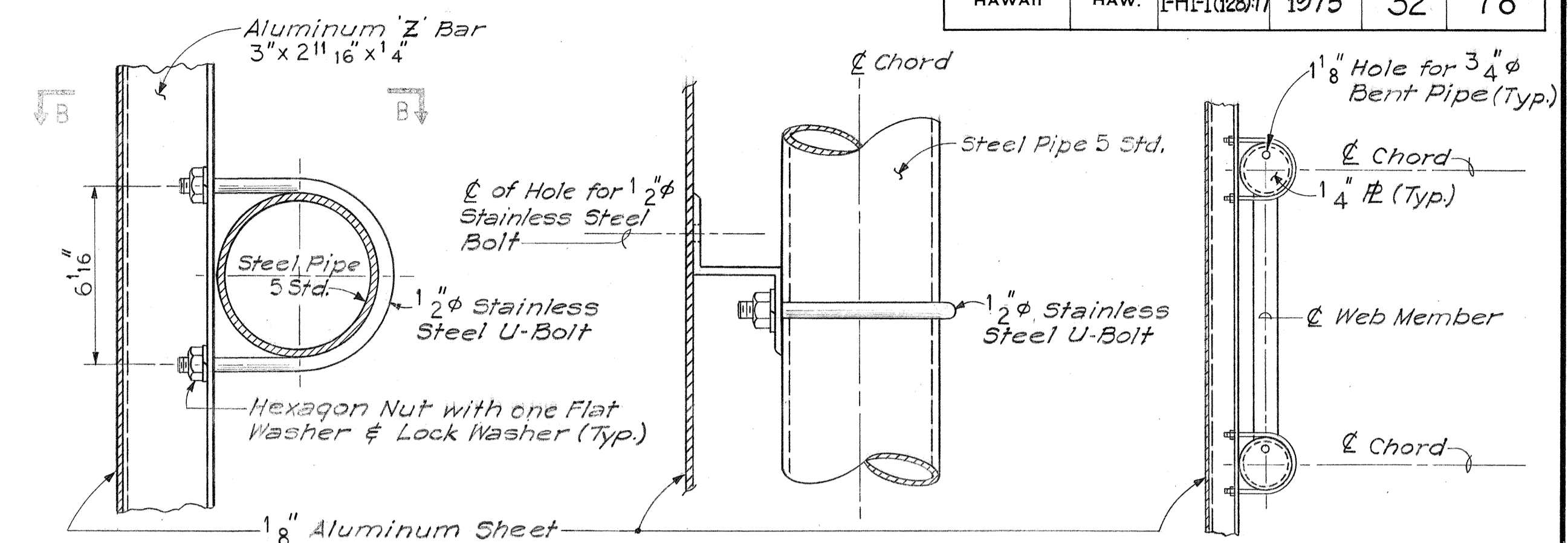
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H1-1(128)17	1975	32	78



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



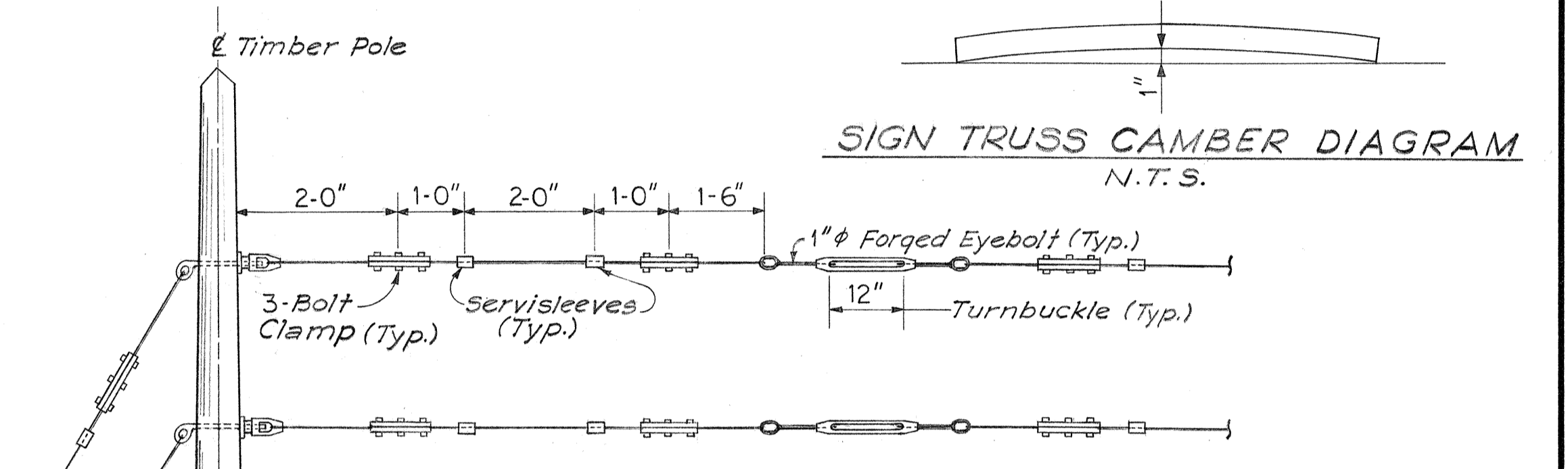
SIGN PANEL ELEVATION
Scale: 1/2" = 1'-0"



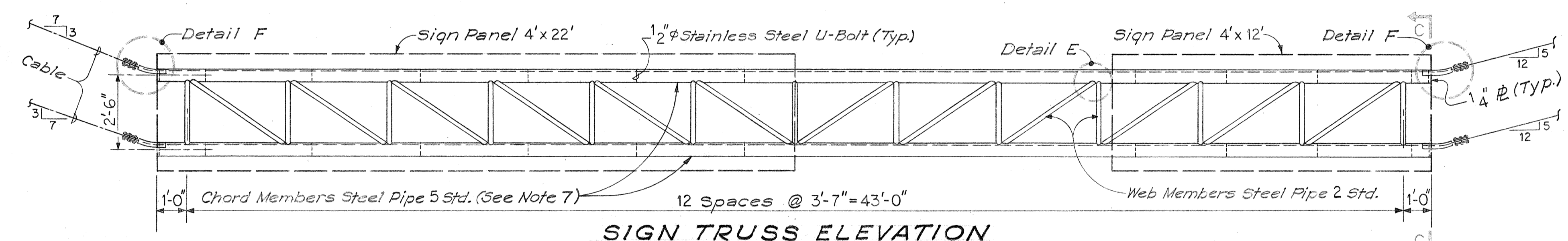
SECTION A-A
Scale: 3" = 1'-0"

SECTION B-B
Scale: 3" = 1'-0"
(Note: 1/2" Strand Not Shown)

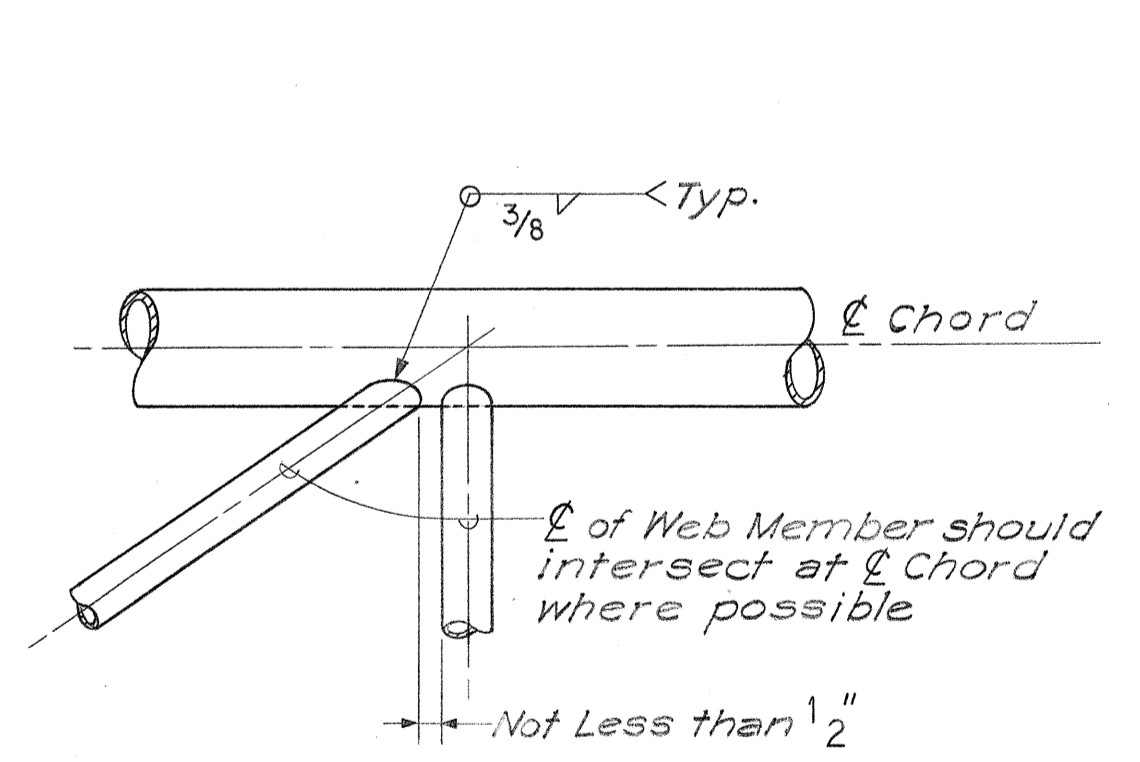
SECTION C-C
Scale: 1" = 1'-0"



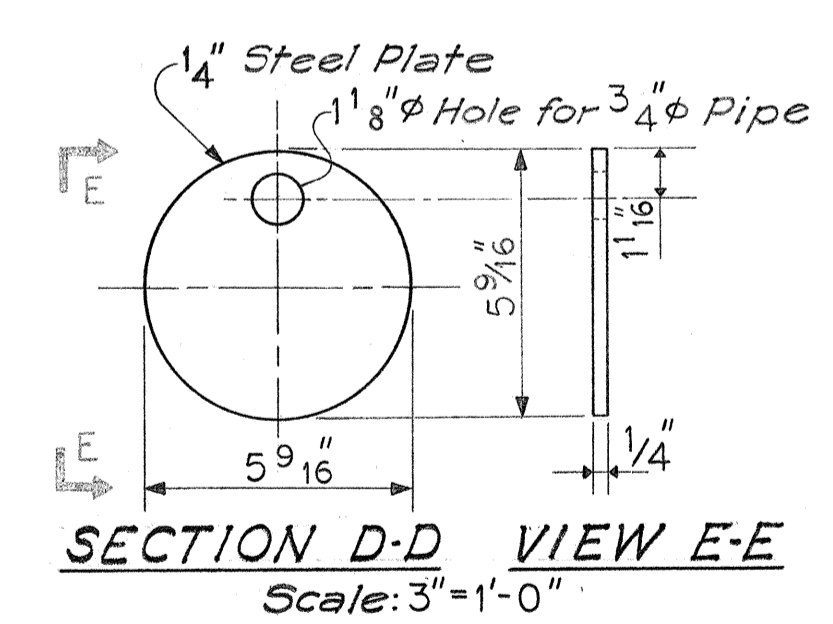
SIGN TRUSS CAMBER DIAGRAM
N.T.S.



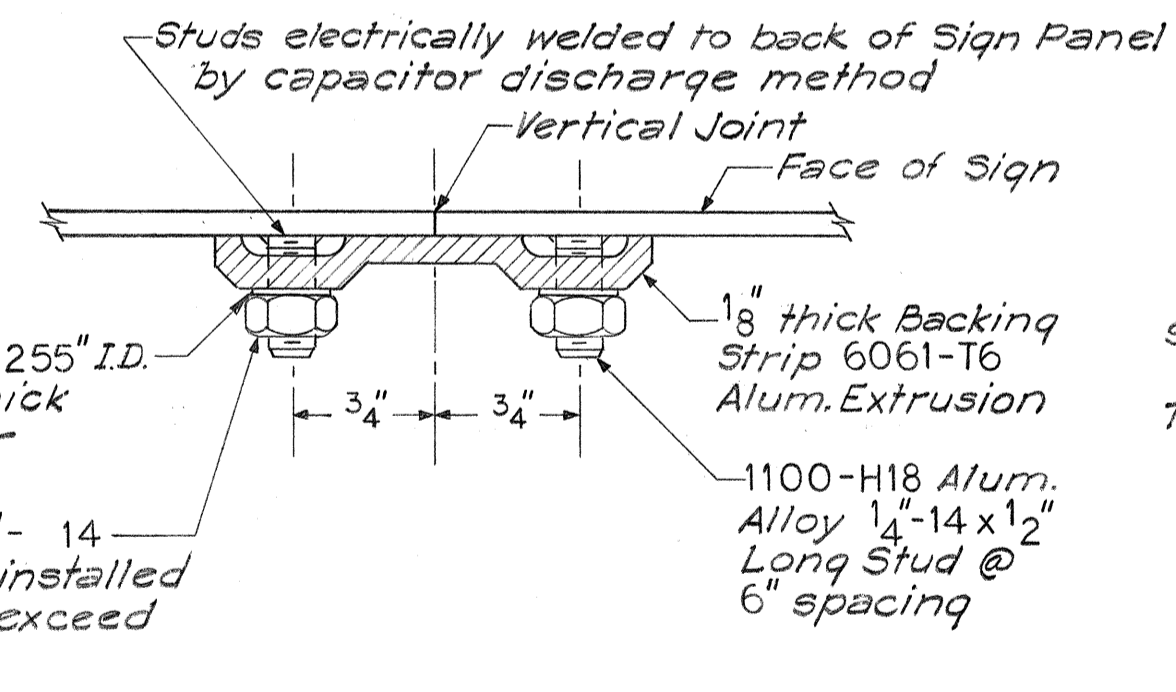
SIGN TRUSS ELEVATION
Scale: 3/8" = 1'-0"



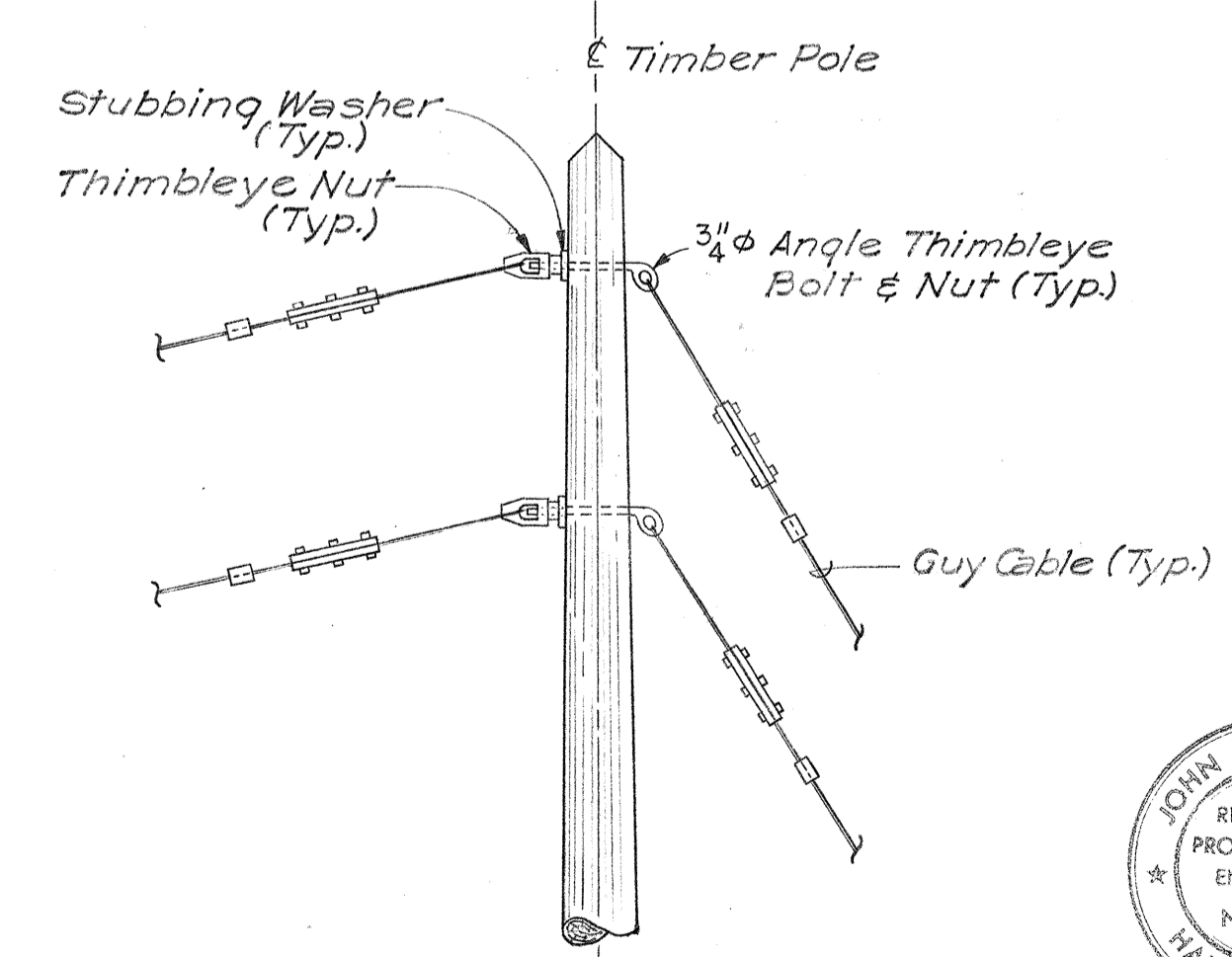
DETAIL E
N.T.S.



SECTION D-D VIEW E-E
Scale: 3" = 1'-0"



BACKING STRIP DETAILS
N.T.S.



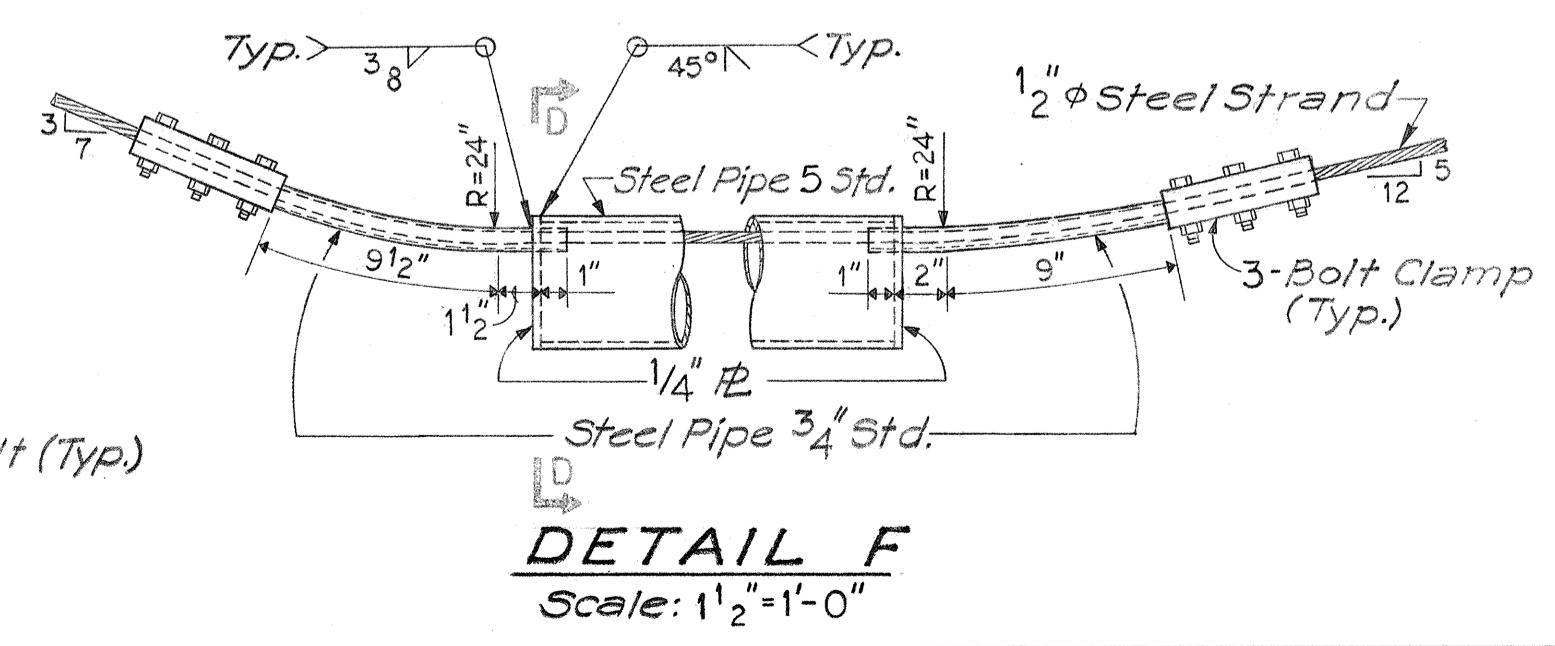
DETAIL D
Scale: 1/2" = 1'-0"

NOTES:

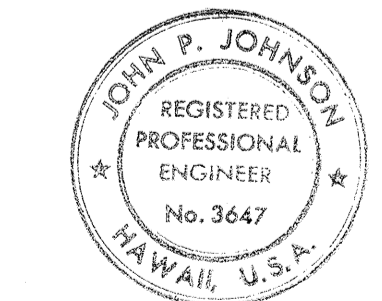
- For Structural General Notes see Sheet No. 31.
- Letters, symbols, and border shall be of white high-intensity reflective sheeting on a green background of high-intensity reflective sheeting. Payment shall be considered incidental to "Overhead Sign Assembly".
- Letters shall be of the modified series E uppercase and lowercase. Letter spacing for line messages shall meet the requirements established by the Bureau of Public Roads, U.S. Department of Commerce, in its reference guide, "Standard Alphabets for Highway Signs", 1966 edition.
- Sign border shall be 2 inches wide and shall have a radius of 3 inches at corners. Corners need not be trimmed.
- Sign panels shall be covered with polyethylene sheeting until the detours are operational. Payment shall be considered incidental to "Overhead Sign Assembly".
- Any pressure-sensitive tape used to fasten plastic sheeting shall be kept off all reflective sign surfaces.
- Steel Tube 6 x 4 x 1/4 Chord Members can be substituted for the Steel Pipe 5 Standard Chord Members shown. The details of the Truss and attachment of Sign Panels to Chord Members are to be submitted for approval by the Engineer.

SURVEY PLOTTED BY: _____
 DATE: _____
 DRAWN BY: _____
 TRACED BY: _____
 QUANTITIES BY: _____
 NOTE BOOK: _____
 CHECKED BY: _____
 NO. _____

ALUMINUM Z-BAR DETAIL
Scale: 1" = 1'-0"



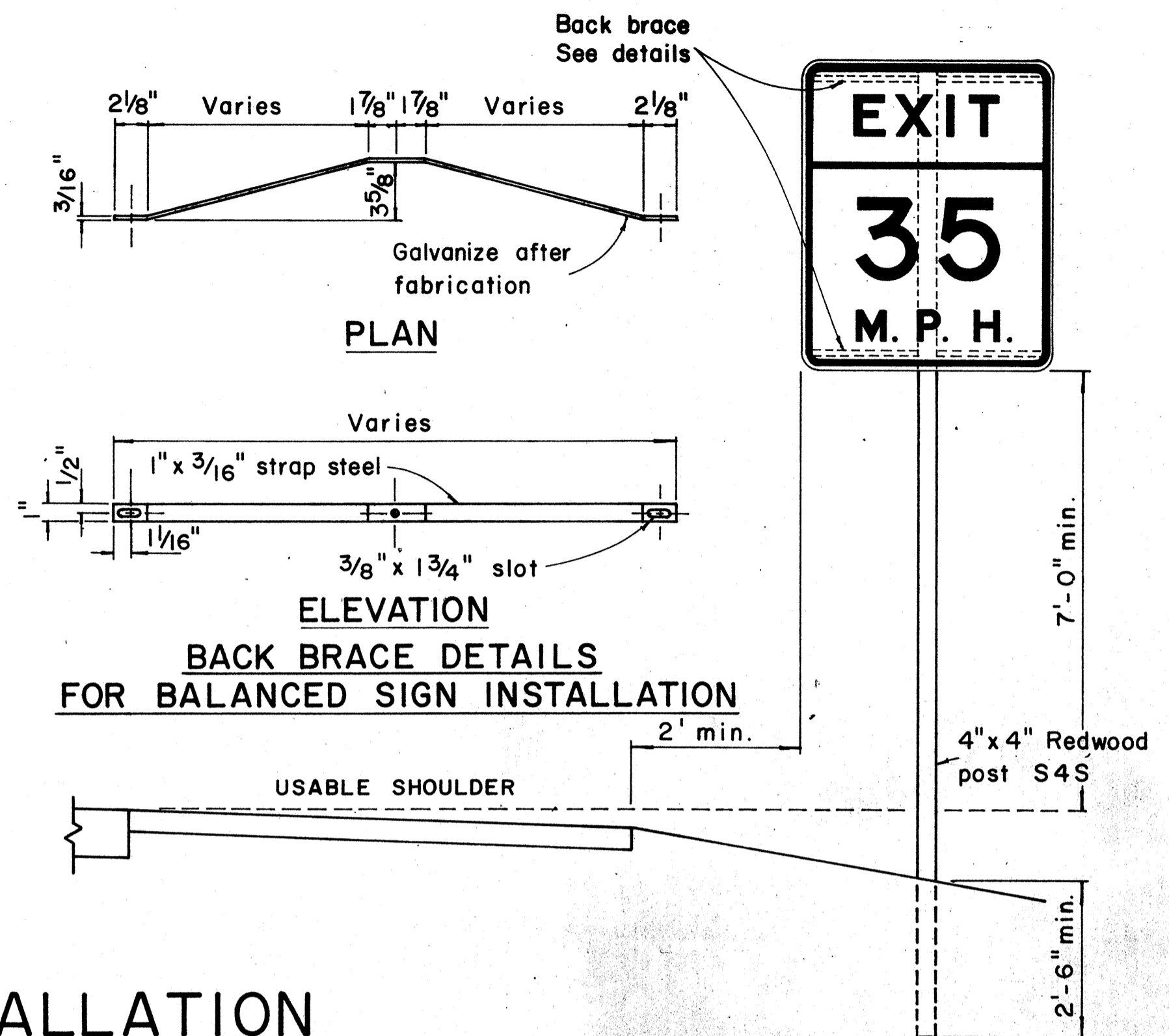
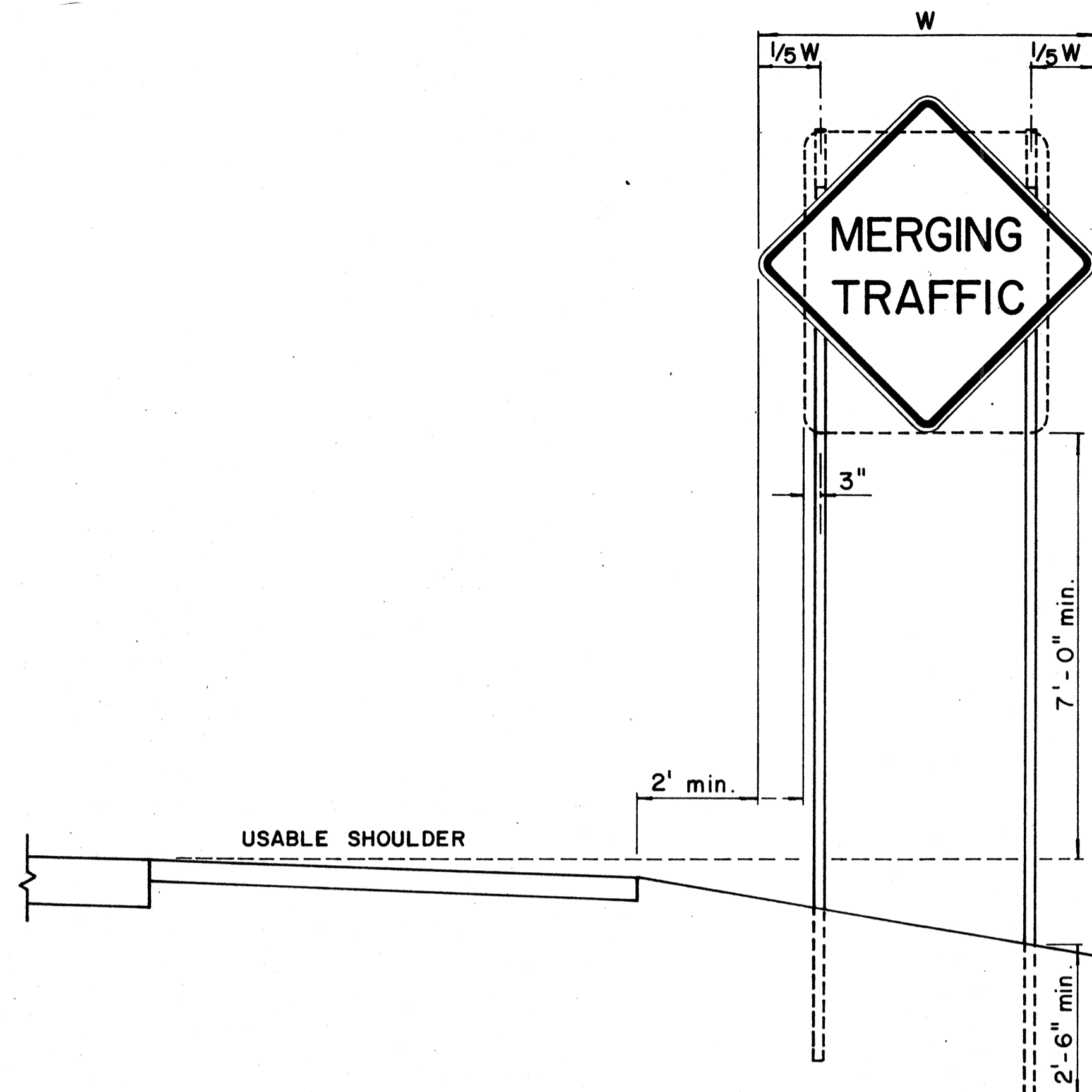
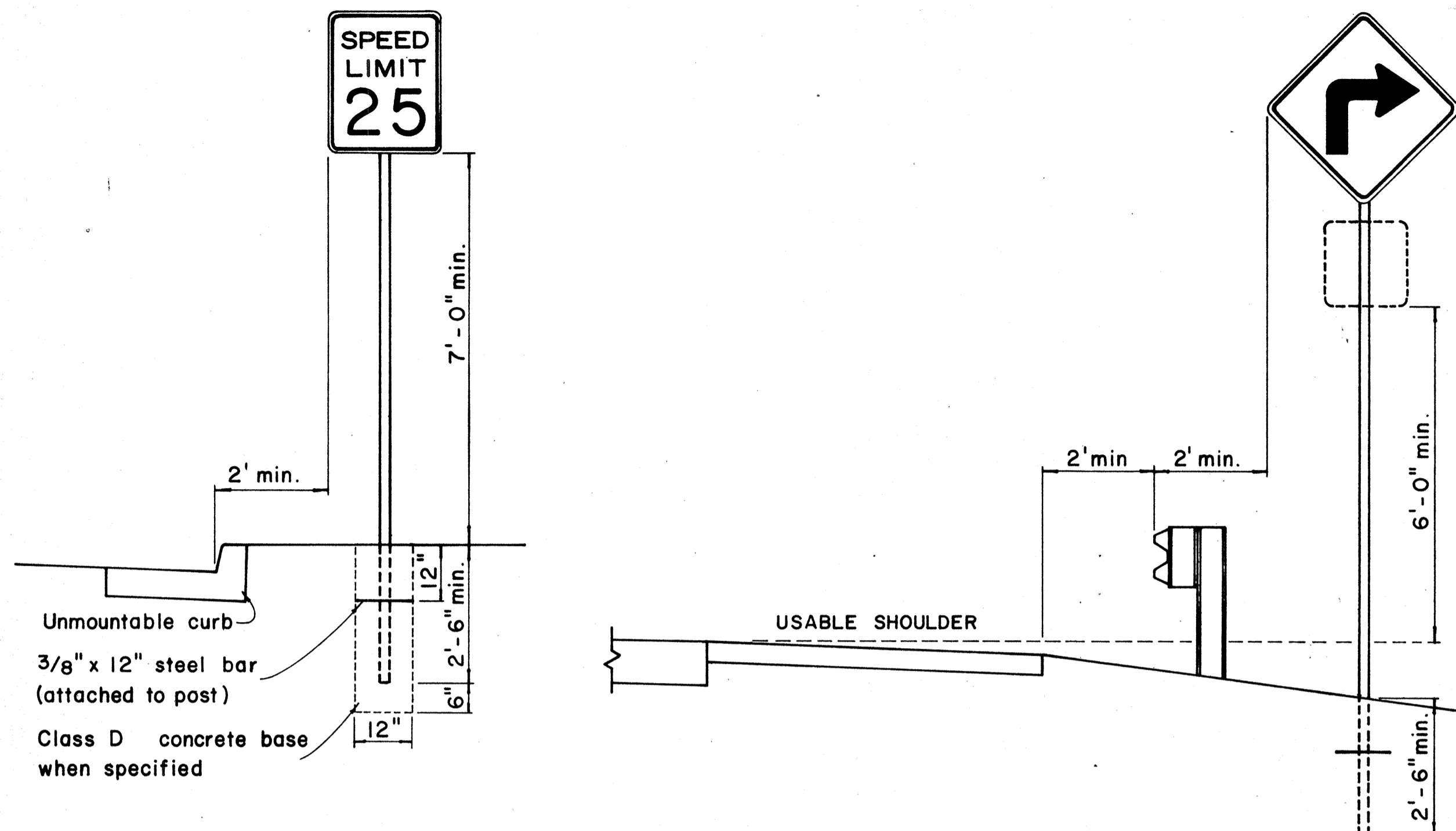
DETAIL F
Scale: 1/2" = 1'-0"



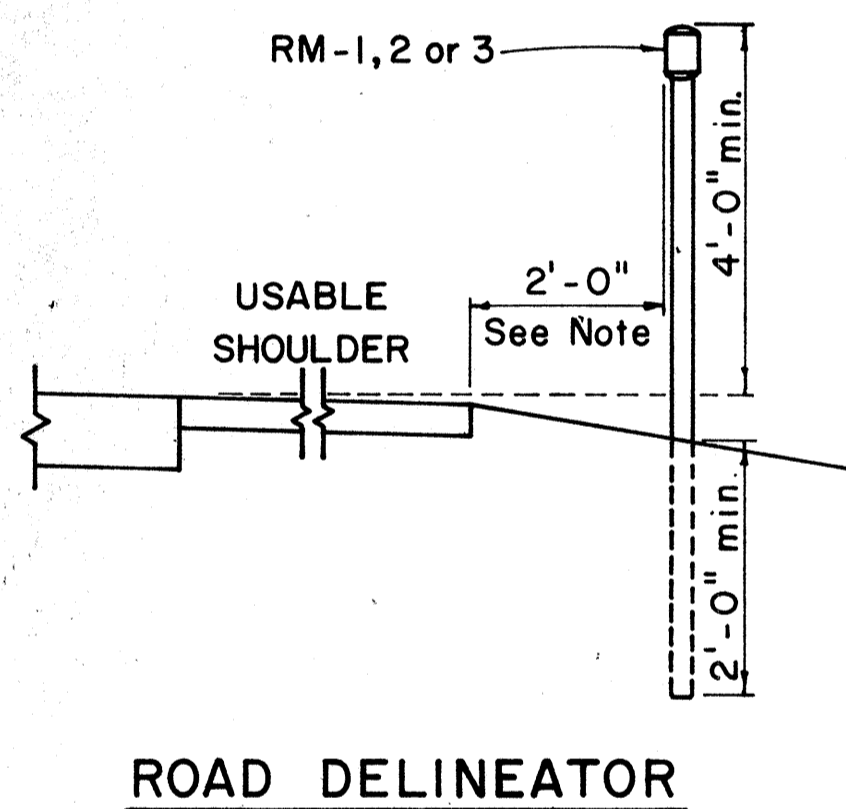
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
John P. Johnson

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
OVERHEAD SIGN ASSEMBLY
 INTERSTATE ROUTE H-1
 PROJECT NO. I-H1-1 (128)17
 Scale: As Shown Date: DEC 13, 1974
 SHEET NO. 4 OF 11 SHEETS

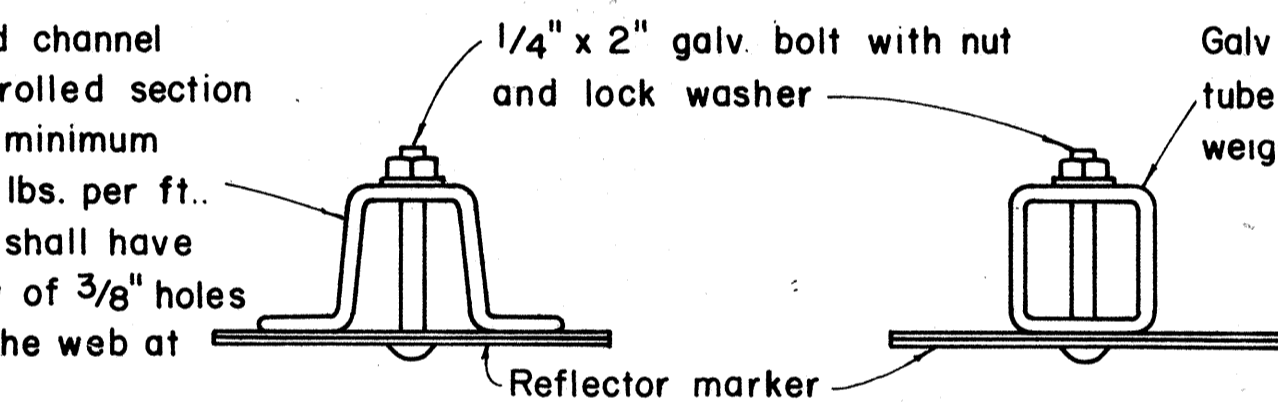
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(128)7	1975	33	78



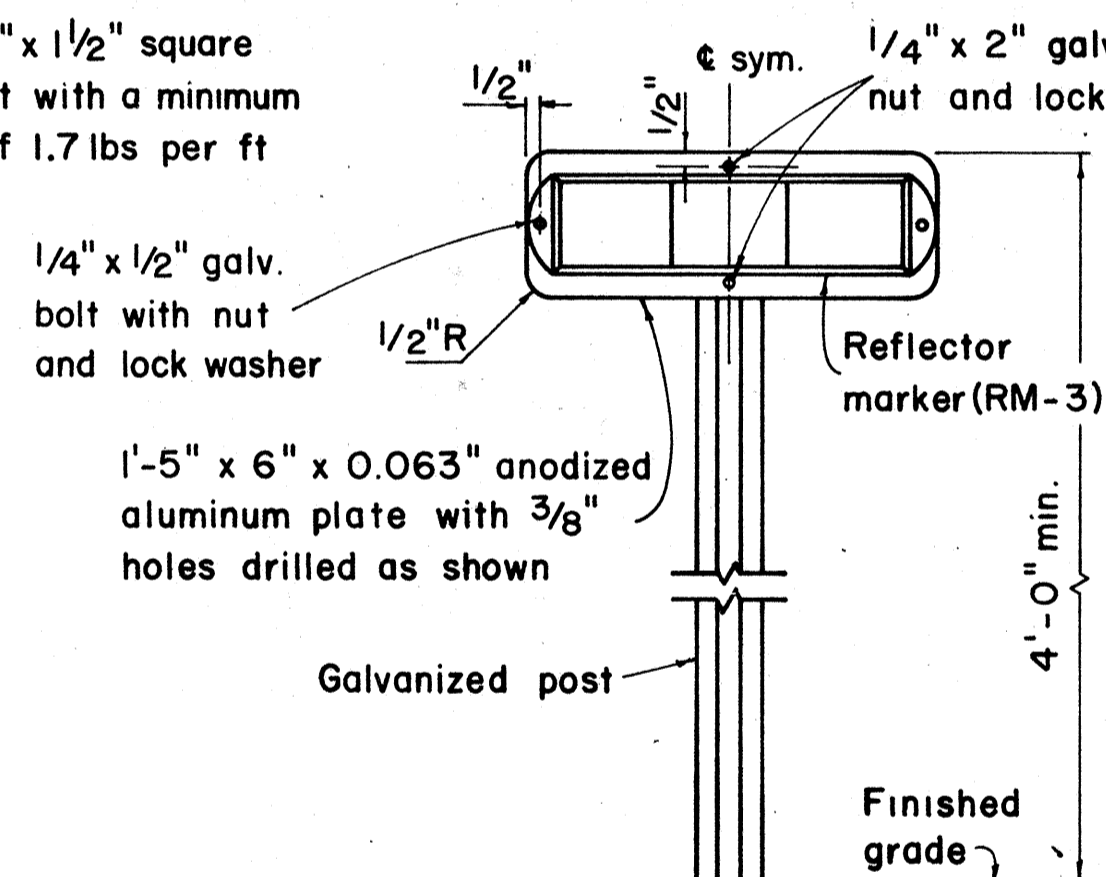
HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATION



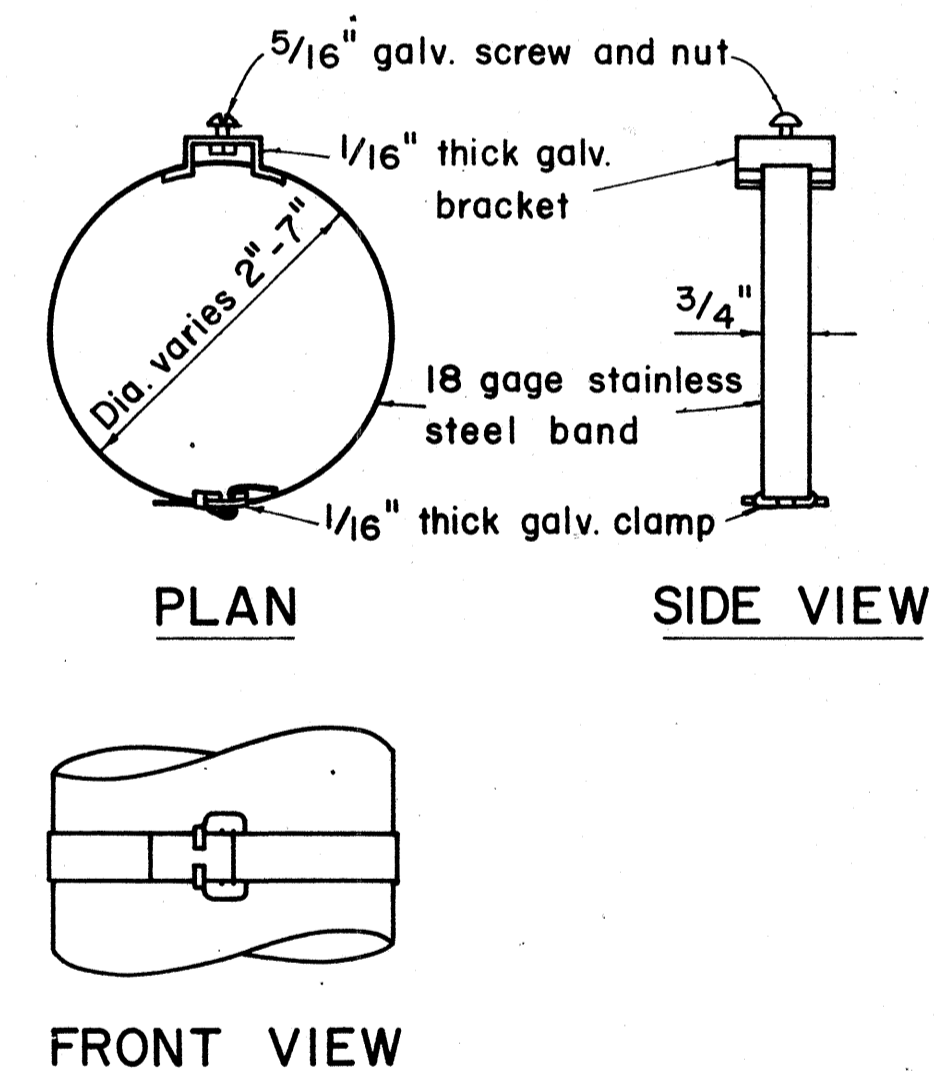
Galv. flanged channel 1/8" x 3/16" rolled section post with a minimum weight of 2 lbs. per ft. Upper 2 ft. shall have a single row of 3/8" holes centered in the web at 1" o.c.



TYPICAL SECTION OF ROAD DELINEATOR



TYPICAL DETAIL
HORIZONTAL REFLECTOR MARKER
RM-3H



TYPICAL BAND BRACKET FOR
MOUNTING TRAFFIC SIGNS

GENERAL NOTES:

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

APPROVAL RECOMMENDED:
Etschi Tanaka 12/29/68
TRAFFIC ENGINEER DATE

APPROVED:
[Signature] 12-29-69
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

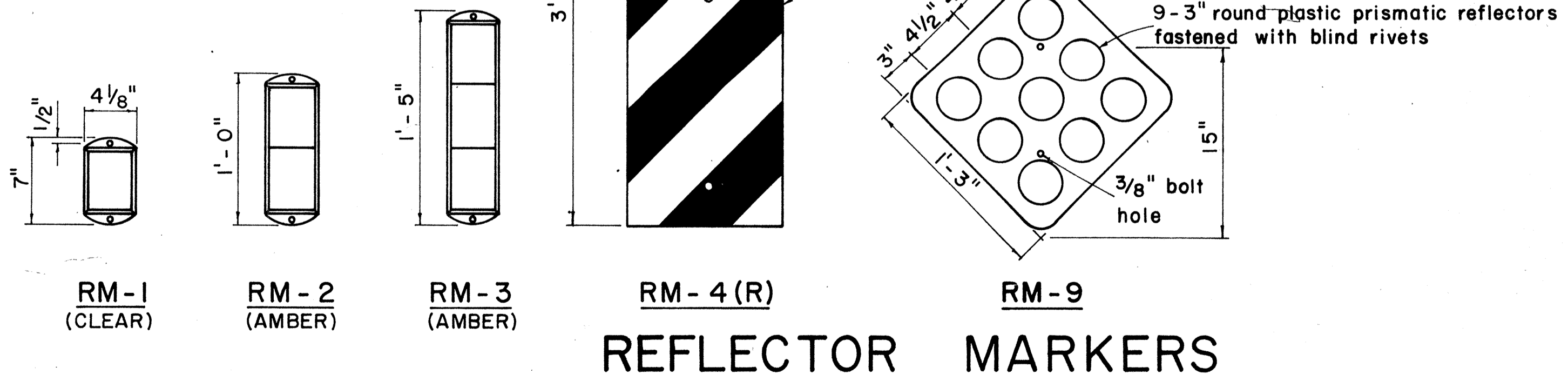
MISCELLANEOUS SIGN DETAILS

Not to scale March, 1968

SHEET No. 5 OF 11 SHEETS DT 100

NO.	REVISION	APPROVED BY	DATE

DATE
 DESIGNED BY
 CHECKED BY
 NO.



REFLECTOR MARKERS

 R1-1 30"x30" R1-1-A 36"x36" 4-WAY R1-3 12"x6" R1-3-A 18"x9"	 R1-2 36"x36"x36" R1-2-A 48"x48"x48"	 R2-1(50) 24"x30" R2-1(50)-A 48"x60"	 R2-2(40) 24"x24" R2-2(40)-A 48"x48"	 R2-4a(50/40) 24"x48" R2-4a(50/40)-A 48"x96"	 R2-5b(30) 24"x30" R2-5b(30)-A 48"x60"	 R3-1 24"x24" 24"x18" R3-1-A 48"x48" 48"x36"	 R3-2 24"x24" 24"x18" R3-2-A 48"x48" 48"x36"	 R3-3 24"x24" R3-3-A 48"x48"	 R3-4 24"x24" 24"x18" R3-4-A 48"x48" 48"x36"	 R3-5(L) 30"x36" R3-5(L)-A 48"x60"	 R3-6(L) 30"x36" R3-6(L)-A 48"x60"
 R3-7(R) 30"x30" R3-7(R)-A 48"x48"	 R3-8(L) 30"x30" R3-8(L)-A 36"x36" R3-8(L)-B 48"x48"	 R3-9 24"x30"	 R4-1 24"x30"	 R4-2 24"x30"	 R4-3 24"x30" R4-3-A 48"x60"	 R4-5 24"x30"	 R4-6(500) 24"x30"	 R4-7 24"x30" 24"x18"	 R4-8 24"x30" 24"x18"	 R5-1 30"x30" R5-1-A 48"x48"	 R5-2 24"x24" 24"x18"
 R5-4 24"x30"	 R5-6 24"x24" 24"x18"	 R5-9 36"x24"	 R6-1(R) 36"x12"	 R6-2(R) 18"x24"	 R7-1 12"x18" R7-1-A 24"x30"	 R7-4 12"x18" R7-4-A 24"x30"	 R7-107(R) 12"x18"	 R7-108 12"x18"	 R7-201 12"x6" R7-201-A 24"x12"	 R8-1 24"x30"	 R8-2 24"x30"
 R8-3 24"x30"	 R8-4 30"x24" R8-4-A 48"x36"	 R8-5 24"x30"	 R8-6 24"x30"	 R8-7 30"x24" R8-7-A 48"x36"	 R9-1 18"x24"	 R9-2 12"x18"	 R9-3 12"x18"	 R9-4 18"x24"	 R10-1 12"x18"	 R10-2 12"x18"	 R10-3 9"x12"
 R10-4 9"x12"	 R10-5 24"x30"	 R10-6 24"x36"	 R10-7 24"x30"	 R10-8 24"x30"	 R10-9 24"x30"	 R10-10 24"x30"					
 R11-1 24"x30"	 R11-2 48"x30"	 R11-3(10) 60"x30"	 R11-4 60"x30"	 R12-1(10) 24"x30"							

GENERAL NOTES

1. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
2. All regulatory signs shall be reflectorized unless otherwise specified.
3. All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
4. Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

APPROVAL RECOMMENDED:

 TRAFFIC ENGINEER 3/17/72 DATE

APPROVED:

 ASSISTANT CHIEF, ENGINEERING 3-20-72 DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H.A.	8/20/72
2	Revised General Note 1.	H.A.	10/10/74

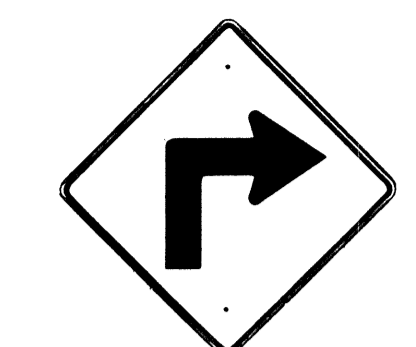
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
REGULATORY SIGNS

NOT TO SCALE

SHEET No. 6 OF 11 SHEETS DT 101

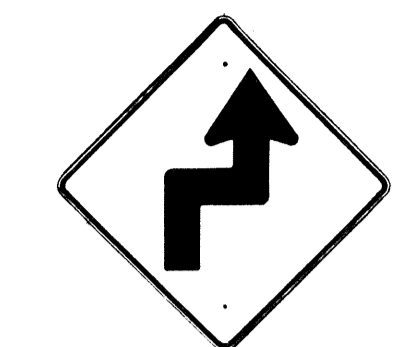
DATE: _____
 SURVEY PLOTTED BY: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 QUANTITIES BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 No. _____



W1-1(R) 30"x30"
W1-1(R)-A 48"x48"



W1-2(R) 30"x30"
W1-2(R)-A 48"x48"



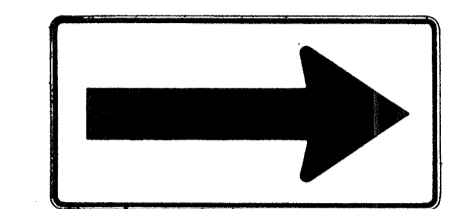
W1-3(R) 30"x30"
W1-3(R)-A 48"x48"



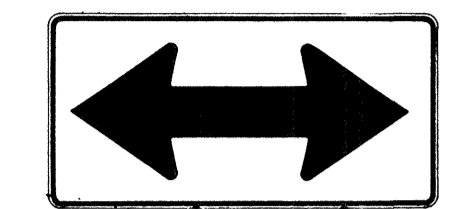
W1-4(R) 30"x30"
W1-4(R)-A 48"x48"



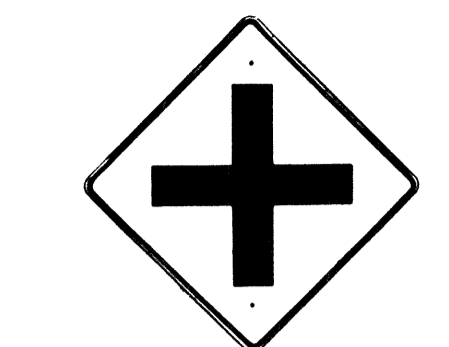
W1-5(R) 30"x30"
W1-5(R)-A 48"x48"



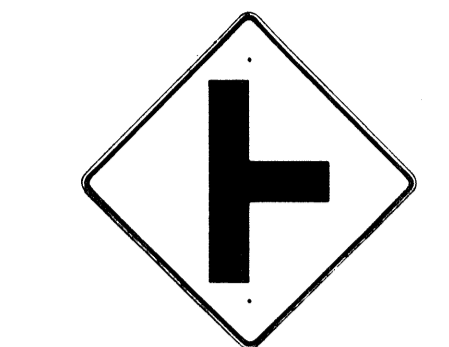
W1-6 48"x24"



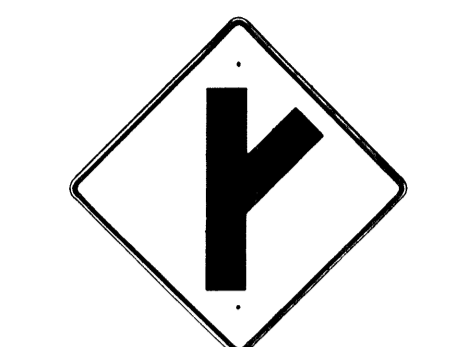
W1-7 48"x24"



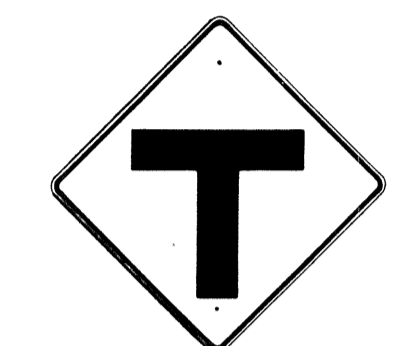
W2-1 30"x30"
W2-1-A 48"x48"



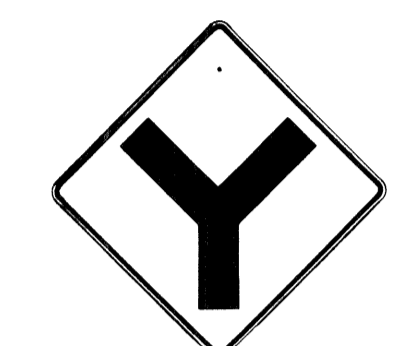
W2-2 30"x30"
W2-2-A 48"x48"



W2-3(R) 30"x30"
W2-3(R)-A 48"x48"



W2-4 30"x30"
W2-4-A 48"x48"



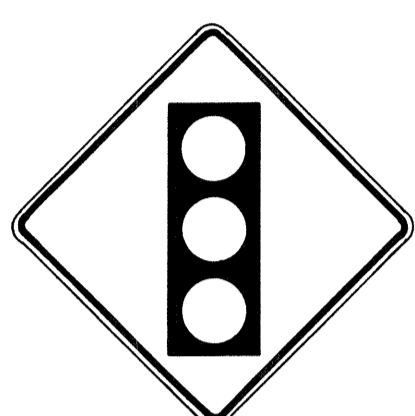
W2-5 30"x30"
W2-5-A 48"x48"



W3-1 30"x30"
W3-1-A 36"x36"



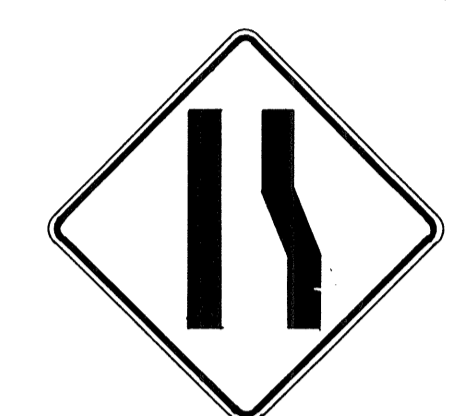
W3-2 30"x30"
W3-2-A 36"x36"



W3-3 36"x36"
24"x18"



W4-1(R) 30"x30"
24"x18"
W4-1(R)-A 48"x48"
24"x18"



W4-2(R) 36"x36"
W4-2(R)-A 48"x48"



W5-1 36"x36"



W5-2 30"x30"
W5-2-A 36"x36"



W5-3 36"x36"



W6-1 36"x36"
24"x18"



W6-2 36"x36"
24"x18"



W6-3 30"x30"
24"x18"
W6-3-A 36"x36"
24"x18"
W6-3-B 48"x48"
24"x18"



W7-1 30"x30"
24"x18"
W7-1-A 36"x36"
24"x18"



W7-2 24"x18"



W8-1 30"x30"
W8-1-A 36"x36"



W8-2 30"x30"
W8-2-A 36"x36"



W8-3 30"x30"
W8-3-A 36"x36"



W8-4 30"x30"
W8-4-A 36"x36"



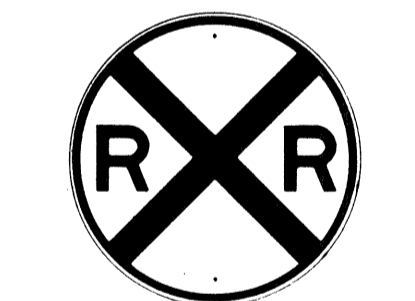
W8-5 30"x30"
24"x18"
W8-5-A 36"x36"
24"x18"



W9-1(R) 30"x30"
W9-1(R)-A 36"x36"
W9-1(R)-B 48"x48"



W9-2(L) 36"x36"
W9-2(L)-A 48"x48"



W10-1 36" Diameter



W11-1 30"x30"
24"x18"
W11-1-A 36"x36"
24"x18"



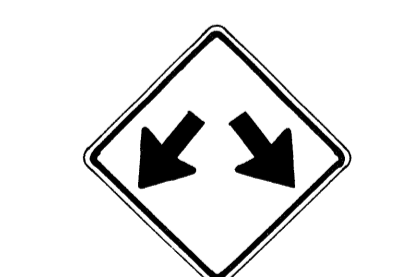
W11-2 30"x30"
24"x18"
W11-2-A 36"x36"
24"x18"



W11-4 30"x30"
24"x18"
W11-4-A 36"x36"
24"x18"



W11-5 30"x30"
24"x18"
W11-5-A 36"x36"
24"x18"



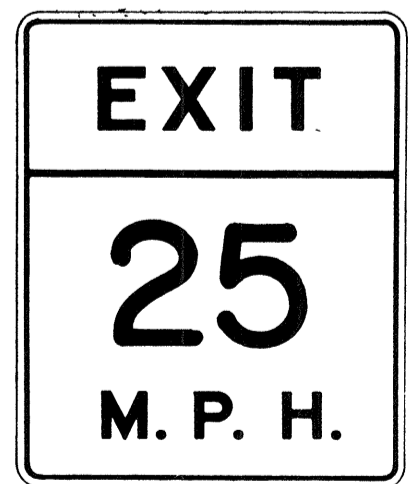
W12-1 24"x24"
W12-1-A 36"x36"
W12-1-B 48"x48"



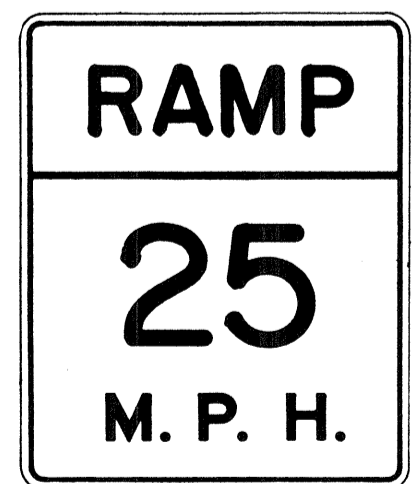
W12-2(12'-6") 36"x36"
24"x18"



W13-1(25) 18"x18"
W13-1(25)-A 24"x24"



W13-2(25) 48"x60"



W13-3(25) 48"x60"



W14-1 30"x30"



W14-3 36"x48"x48"

GENERAL NOTES

1. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
2. All warning signs shall be reflectorized unless otherwise specified.
3. All warning signs shall have 3/8" bolt holes drilled at appropriate locations.
4. Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
5. Signs prefixed with "CW" on the plans shall indicate orange and black construction signs.

APPROVAL RECOMMENDED:
Eiichi Tanaka 3/17/72
 TRAFFIC ENGINEER DATE

APPROVED:
Arthur J. ... 3-20-72
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 102 Approved 12-30-69	H.T.	3/20/72
2	Revised General Note 1	H.T.	10/10/72

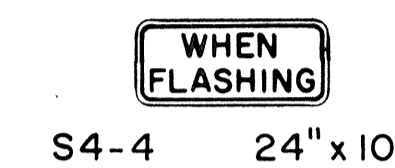
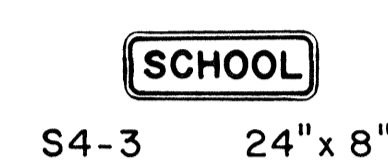
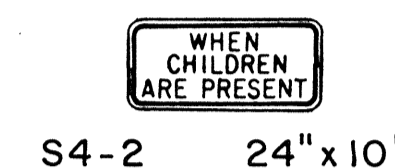
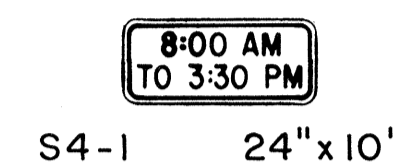
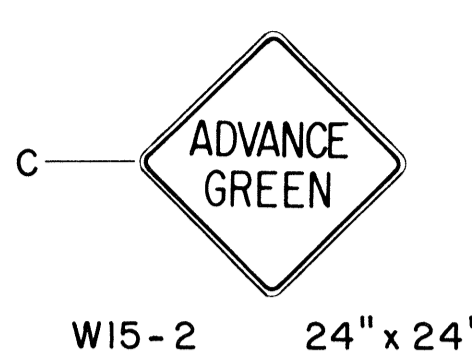
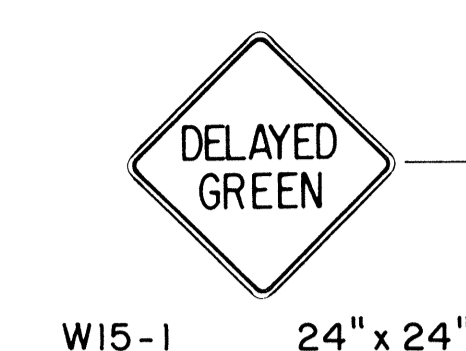
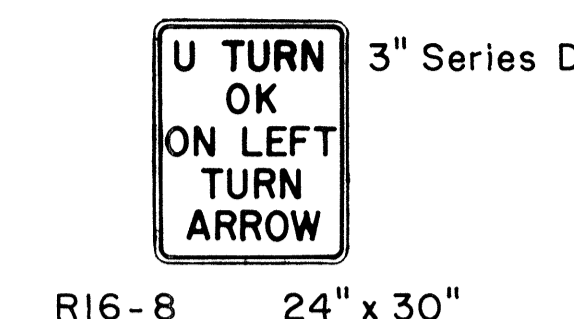
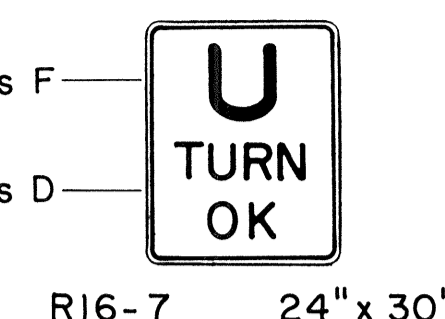
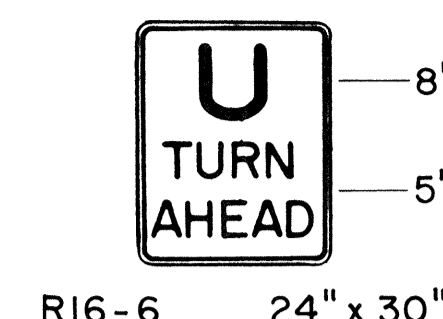
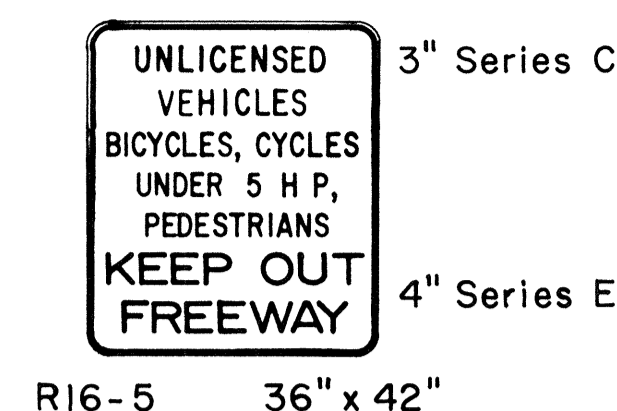
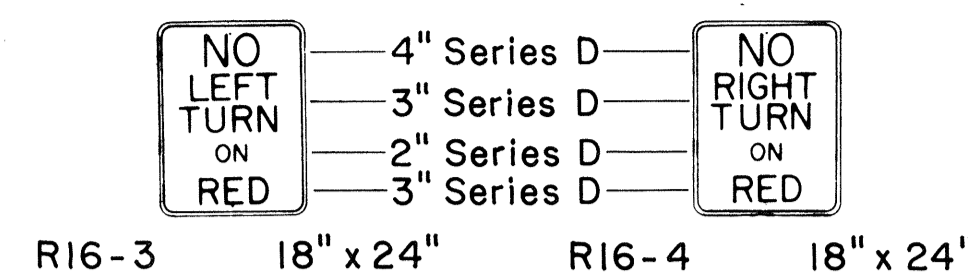
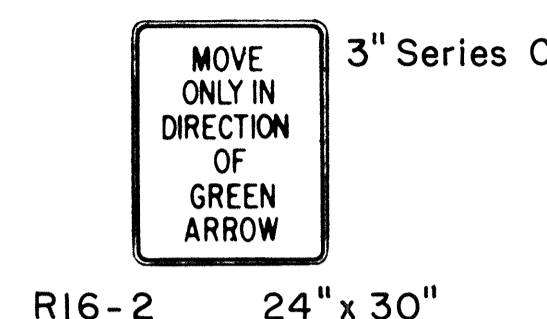
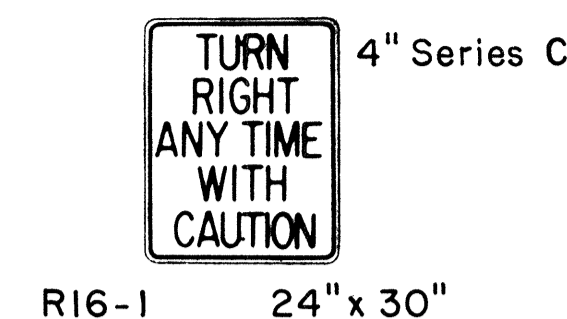
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
WARNING SIGNS

NOT TO SCALE

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-11-1(128)17	1975	36	78



GENERAL NOTES

1. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
2. All regulatory and warning signs shall be reflectorized unless otherwise specified.
3. All regulatory and warning signs shall have 3/8" bolt holes drilled at appropriate locations.
4. Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

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

APPROVAL RECOMMENDED:
Eishi Tanaka
 TRAFFIC ENGINEER 3/17/72
 DATE

APPROVED:
Hubert Zatsick
 ASSISTANT CHIEF, ENGINEERING 3-20-72
 DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 103 Approved 12-30-69	H.C.	3/20/72
2	Revised General Note 1	H.	10/16/74

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
MISCELLANEOUS
REGULATORY & WARNING SIGNS

NOT TO SCALE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	[H-1(128)17	1975	37	78



CW20-1a 48" x 48"



CW20-2d 48" x 48"



CW20-3b 48" x 48"



CW20-4d 48" x 48"



CW20-5d(L) 48" x 48"



CW20-7c 48" x 48"



CW21-1 30" x 30"



CW21-2 30" x 30"



CW21-3 36" x 36"



CW21-4 36" x 36"



CW21-5 30" x 30"



CW21-6 30" x 30"



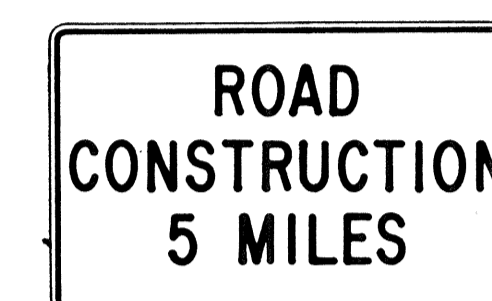
CW22-1b 48" x 48"



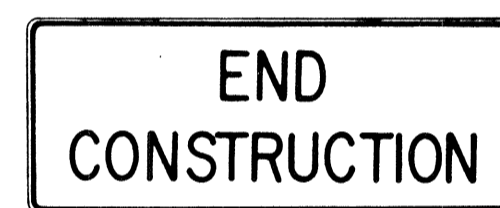
CW22-2 42" x 36"



CW22-3 42" x 36"



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



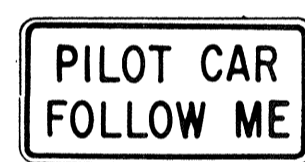
CG 20-2 60" x 24"



CM 4-9(R) 30" x 24"



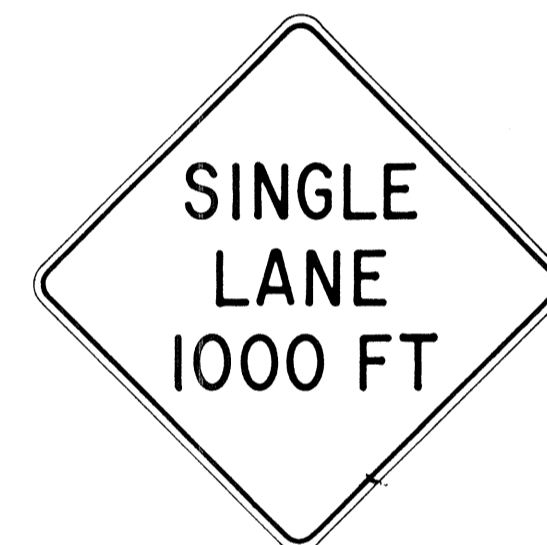
CM 4-10(R) 48" x 18"



CG 20-4 36" x 18"



CW23-1 36" x 36"



CW23-2b 48" x 48"



CW23-3(R) 48" x 48"

GENERAL NOTES

- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
- All construction signs shall be reflectorized unless otherwise specified.
- All construction signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
- For "CW" series signs, suffixes a,b,c and d are as follows:
a-1500 FT, b-1000 FT, c-500 FT and d-AHEAD.

APPROVAL RECOMMENDED:
Erich Tanaka 3/21/72
TRAFFIC ENGINEER DATE

APPROVED:
Arthur Salsich 3/23/72
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 104 Approved 12-30-69	H.T.	3/23/72
2	Revised General Note 1	H.T.	10/16/74

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

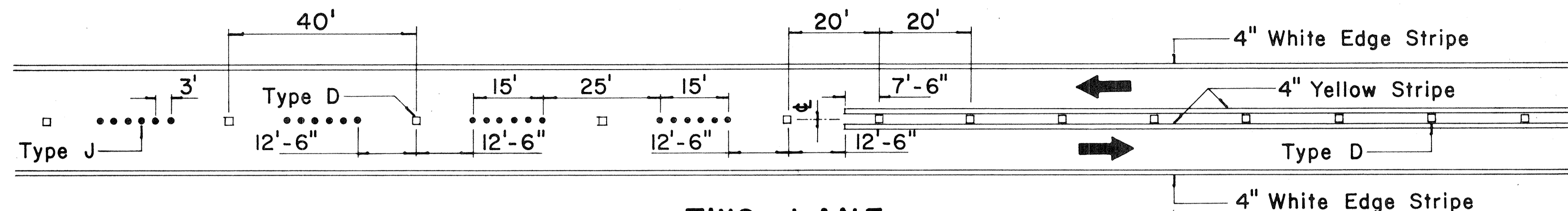
STANDARD DETAILS
CONSTRUCTION SIGNS

NOT TO SCALE

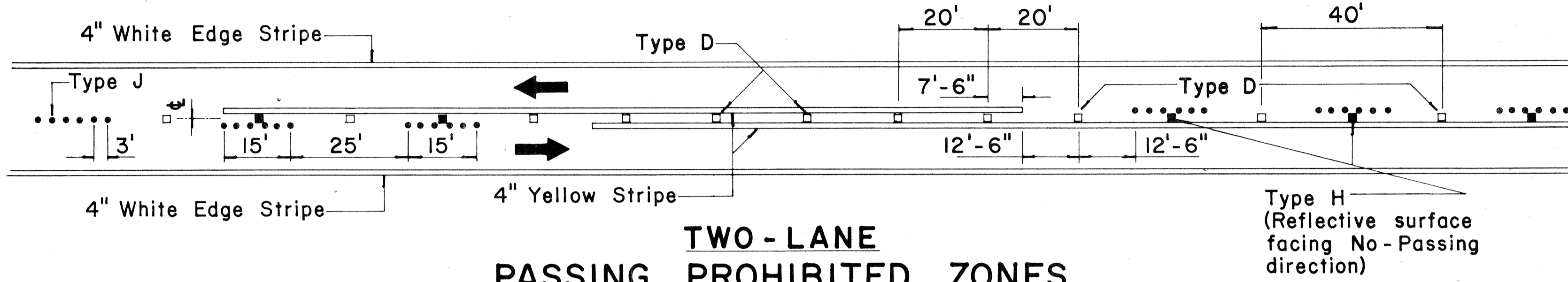
SHEET No. 9 OF 11 SHEETS DT 104

ORIGINAL PLAN	DATE
NO.	
SURVEY PLOTTED BY	
DRAWN BY	
FIELD BY	
QUANTITIES BY	
CHECKED BY	

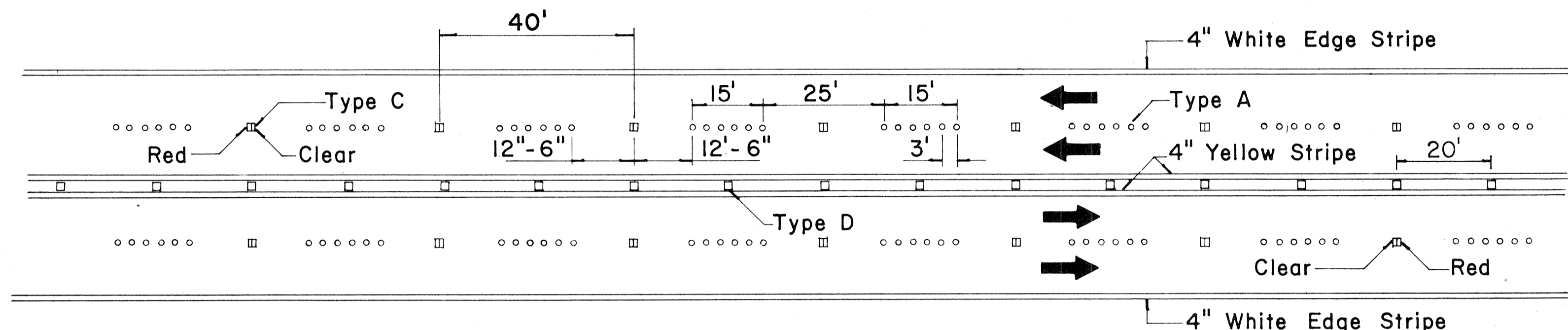
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-1-1(128)17	1975	38	78



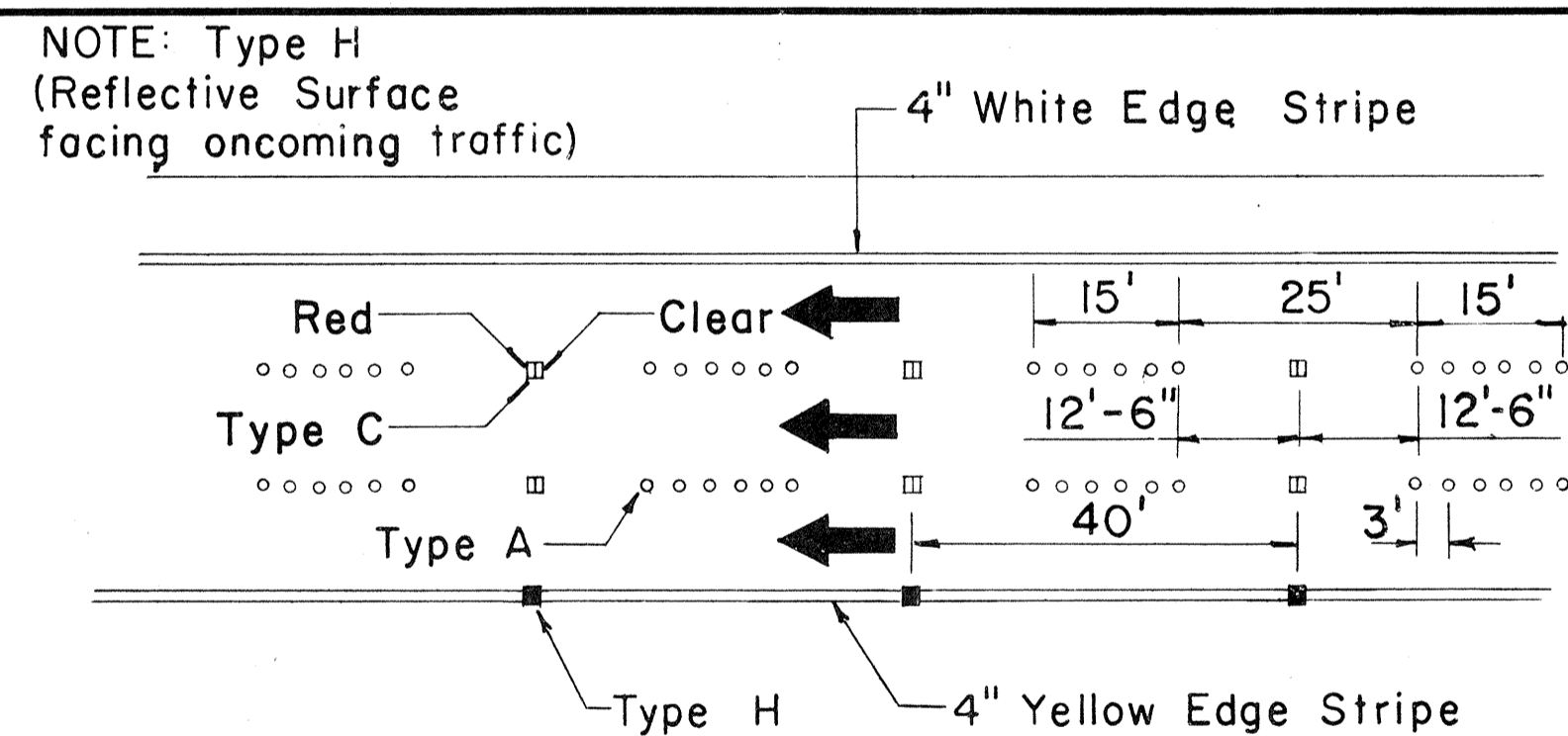
**TWO - LANE
PASSING PERMITTED AND PASSING PROHIBITED**



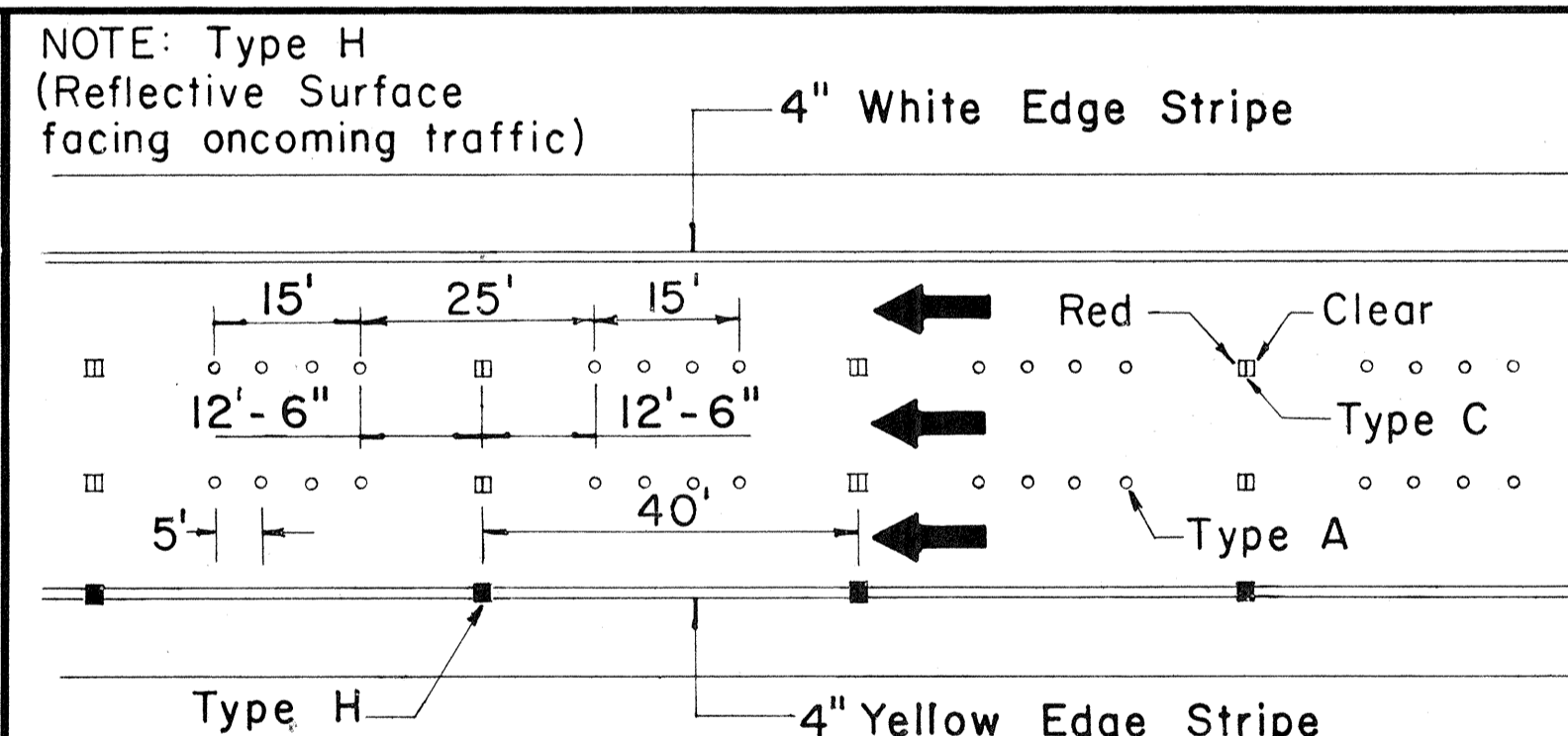
**TWO - LANE
PASSING PROHIBITED ZONES**



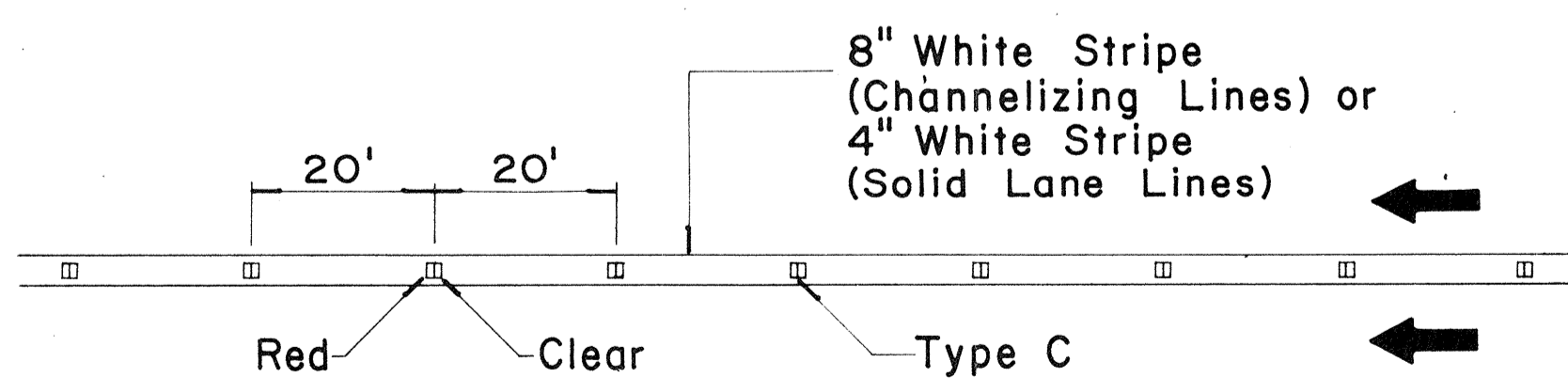
**MULTI - LANE
LANE LINES AND CENTER LINE**



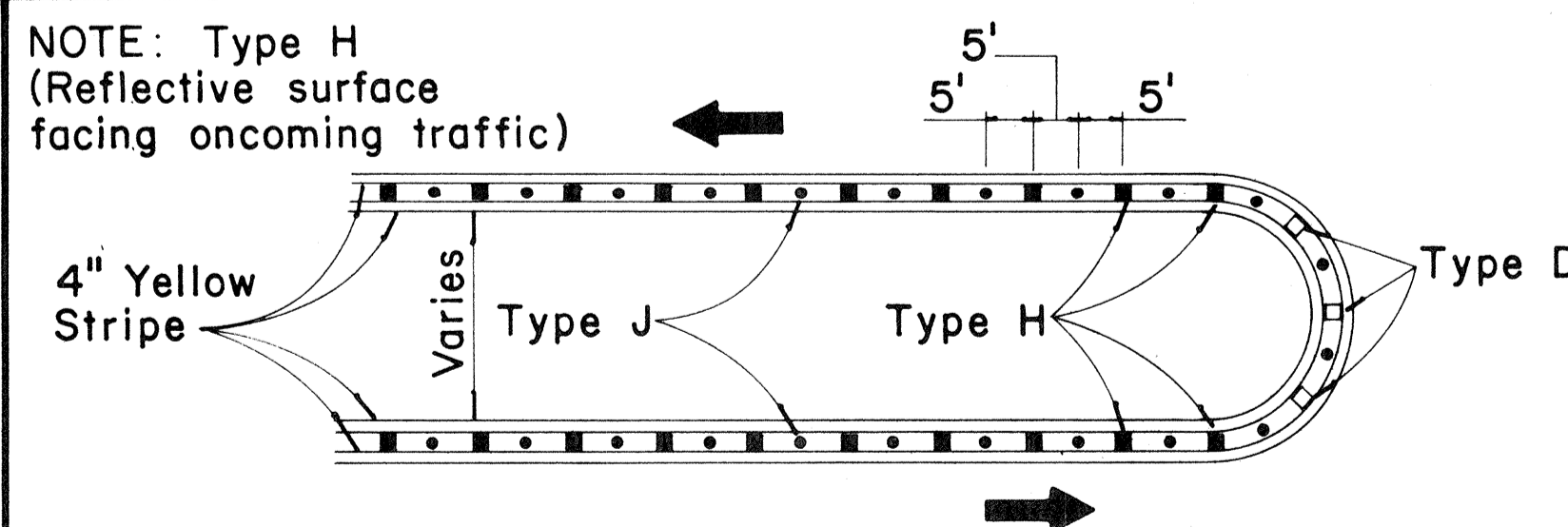
DIVIDED HIGHWAY LANE LINES



FREEWAY LANE LINES



**CHANNELIZING LINES
OR SOLID LANE LINES**



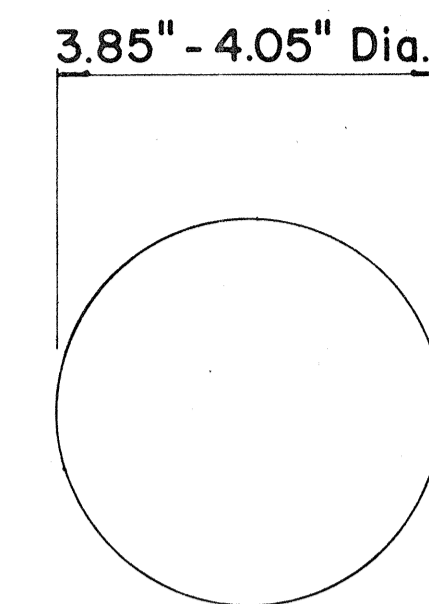
MEDIAN NOSE DELINEATION

TWO - LANE

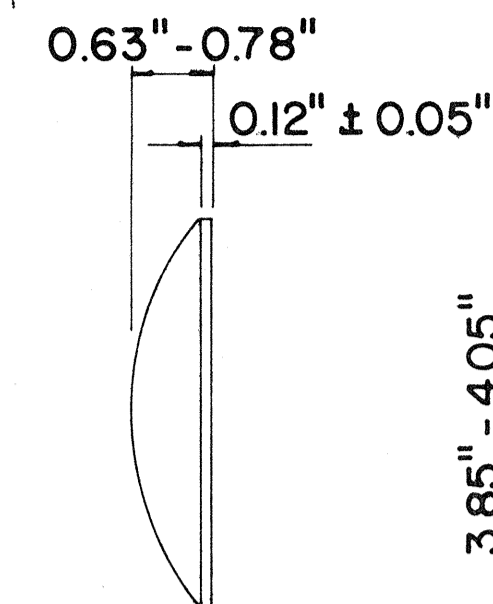
MULTI - LANE

DIVIDED HIGHWAY
AND
FREEWAY

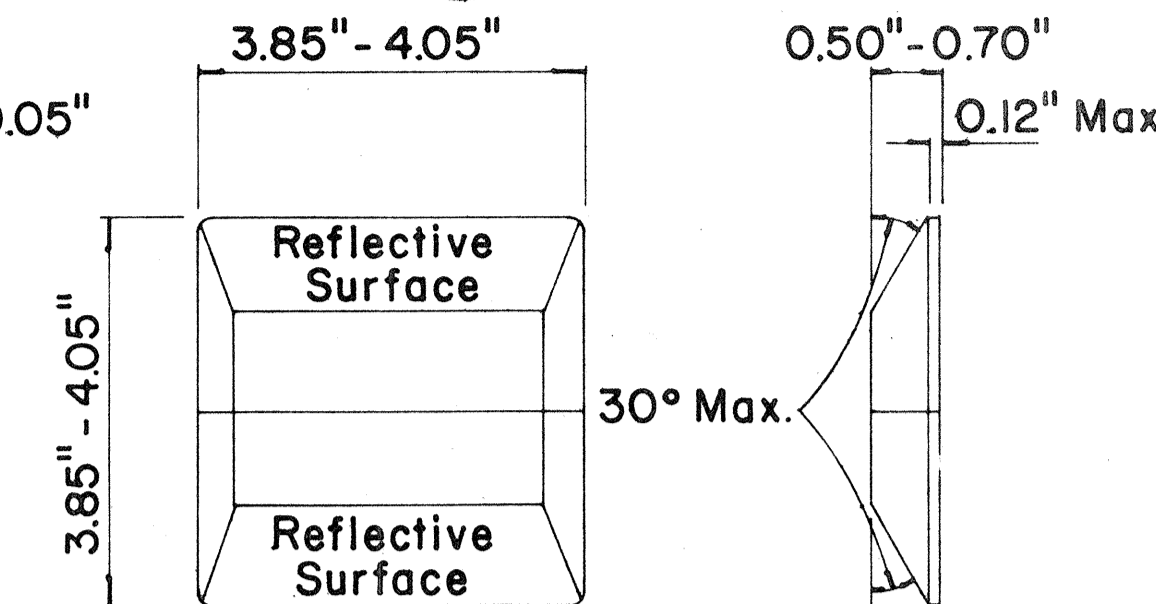
MISCELLANEOUS



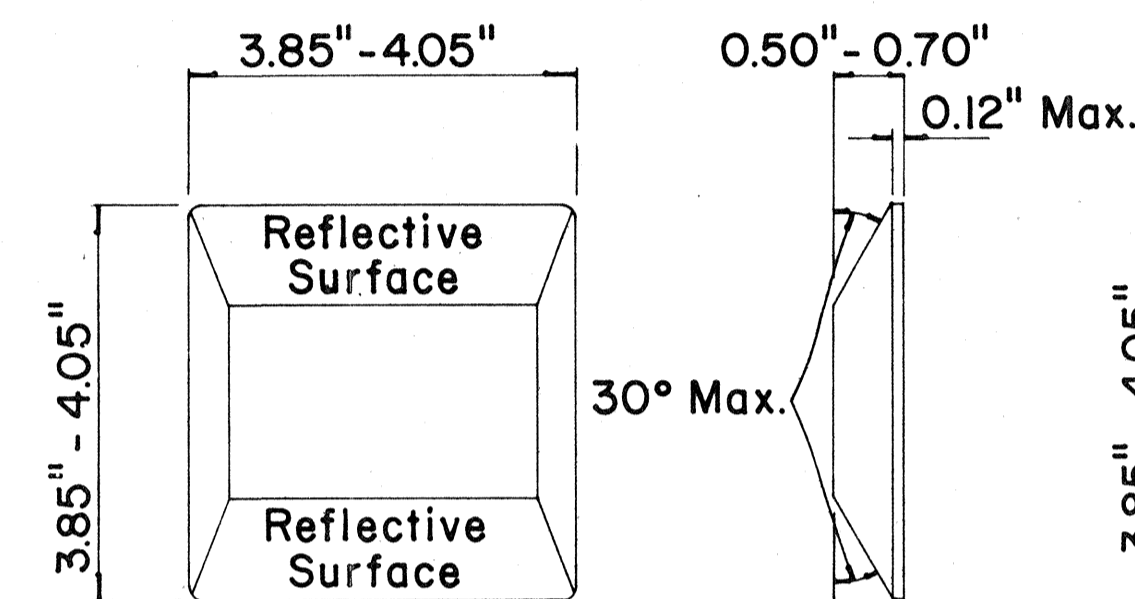
**TYPE A
NON - REFLECTIVE WHITE MARKER**



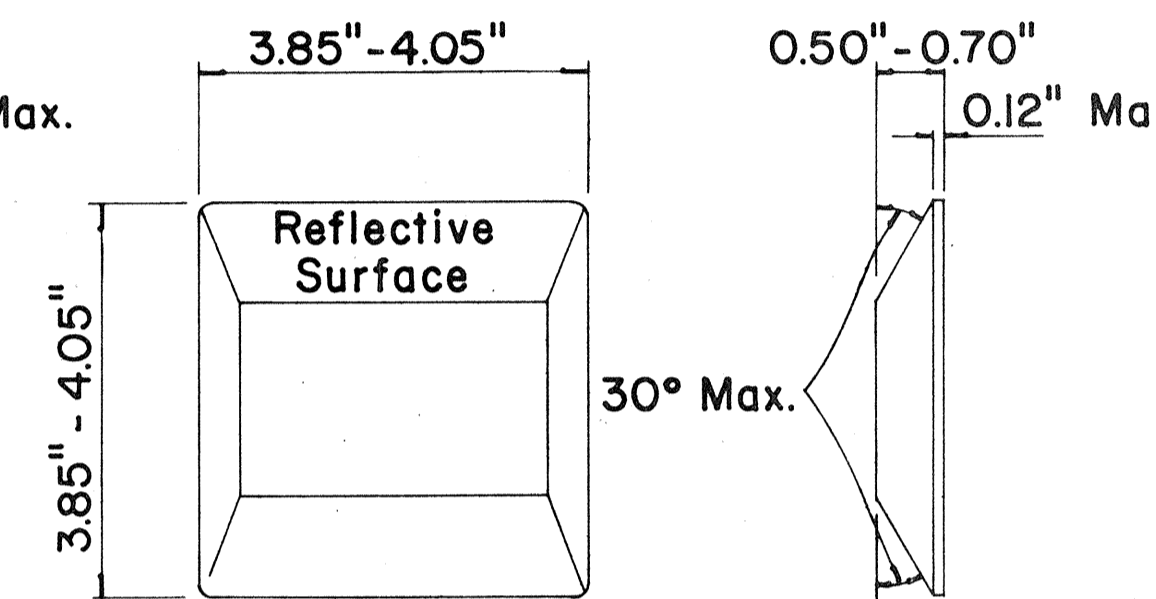
**TYPE J
NON - REFLECTIVE YELLOW MARKER**



**TYPE C
RED - CLEAR REFLECTIVE MARKER**



**TYPE D
TWO - WAY YELLOW REFLECTIVE MARKER**



**TYPE H
ONE - WAY YELLOW REFLECTIVE MARKER**

GENERAL NOTES

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

LEGEND

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

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

APPROVED:
Blair Suterish 11/18/71
ASSISTANT CHIEF, ENGINEERING DATE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STANDARD DETAILS
RAISED PAVEMENT MARKERS**

Not to Scale October 1971
SHEET No. 10 OF 11 SHEETS DT 300

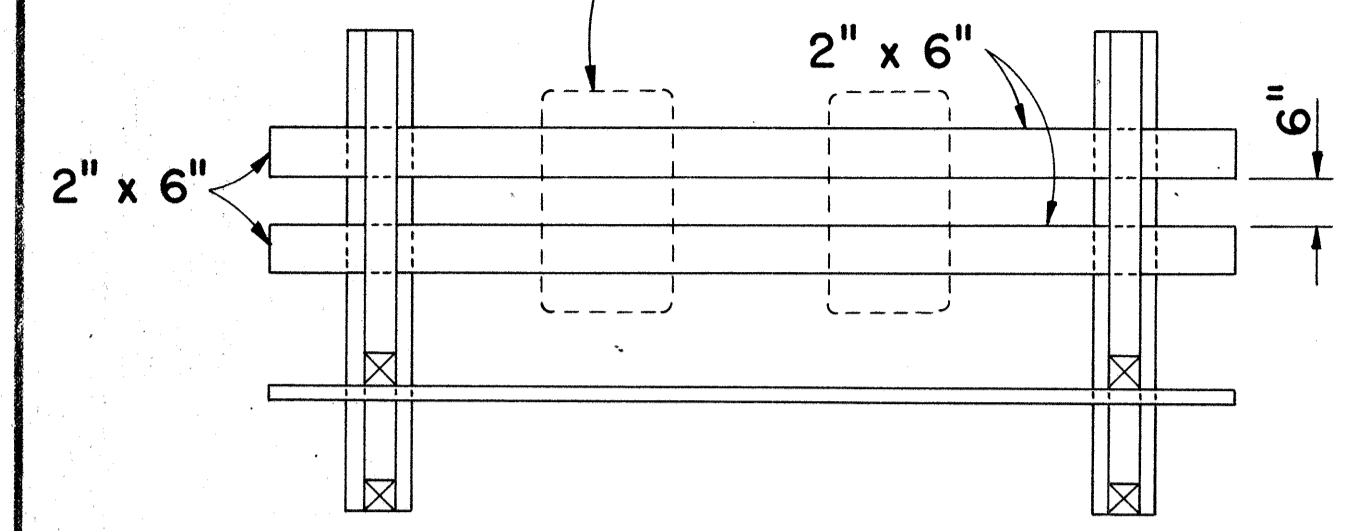
DATE _____
SURVEY PLOTTED BY _____
DRAWN BY _____
DESIGNED BY _____
NOTE BOOK _____
QUANTITIES BY _____
CHECKED BY _____
No. _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-102847	1975	39	78

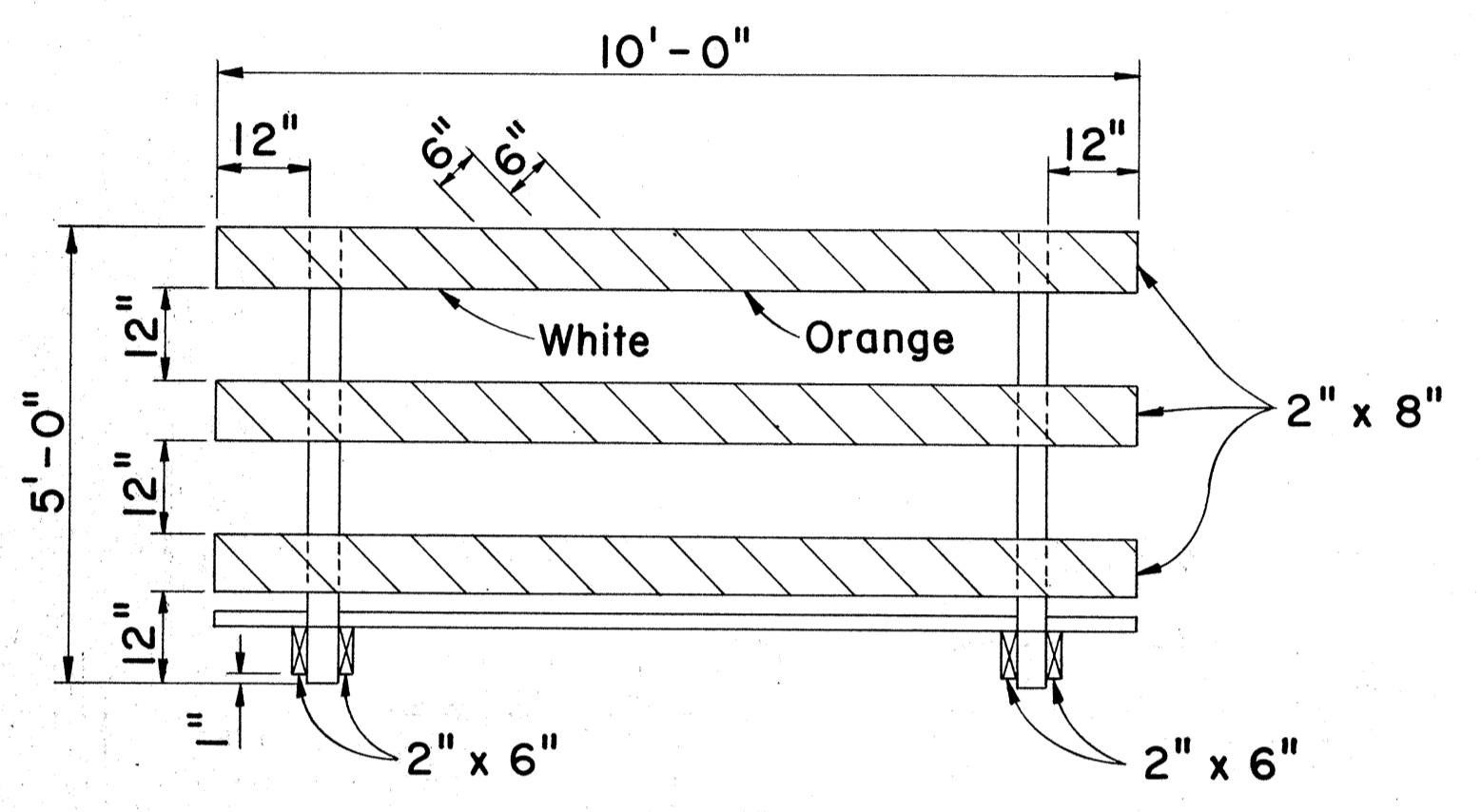
Sand Bags as required by the Engineer.

GENERAL NOTES

1. The Contractor shall construct, install and maintain the wood barricades at the locations shown on the Plans.
2. The permanent wood barricades shall be left in place or relocated upon completion of the project as ordered by the Engineer and are to become State property.
3. The orange and white stripes shall slant downward toward the side on which traffic is to pass and shall be reflectorized.



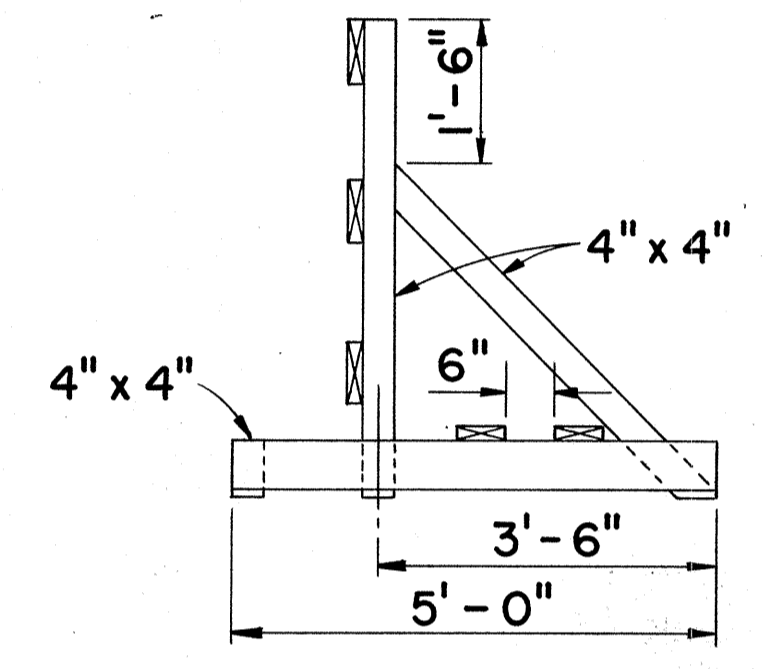
PLAN VIEW



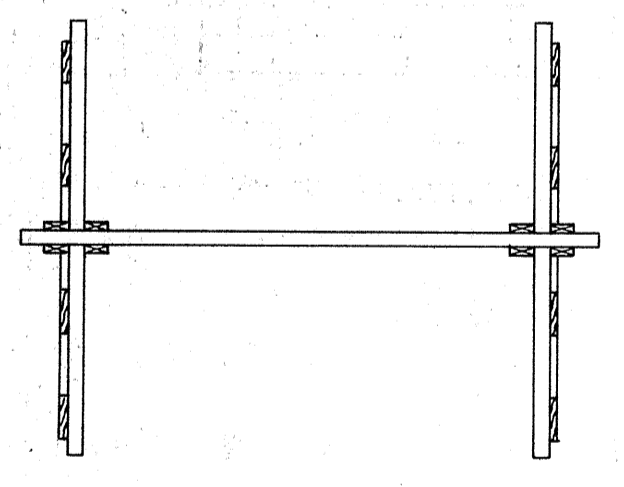
FRONT VIEW

CLASS I BARRICADE

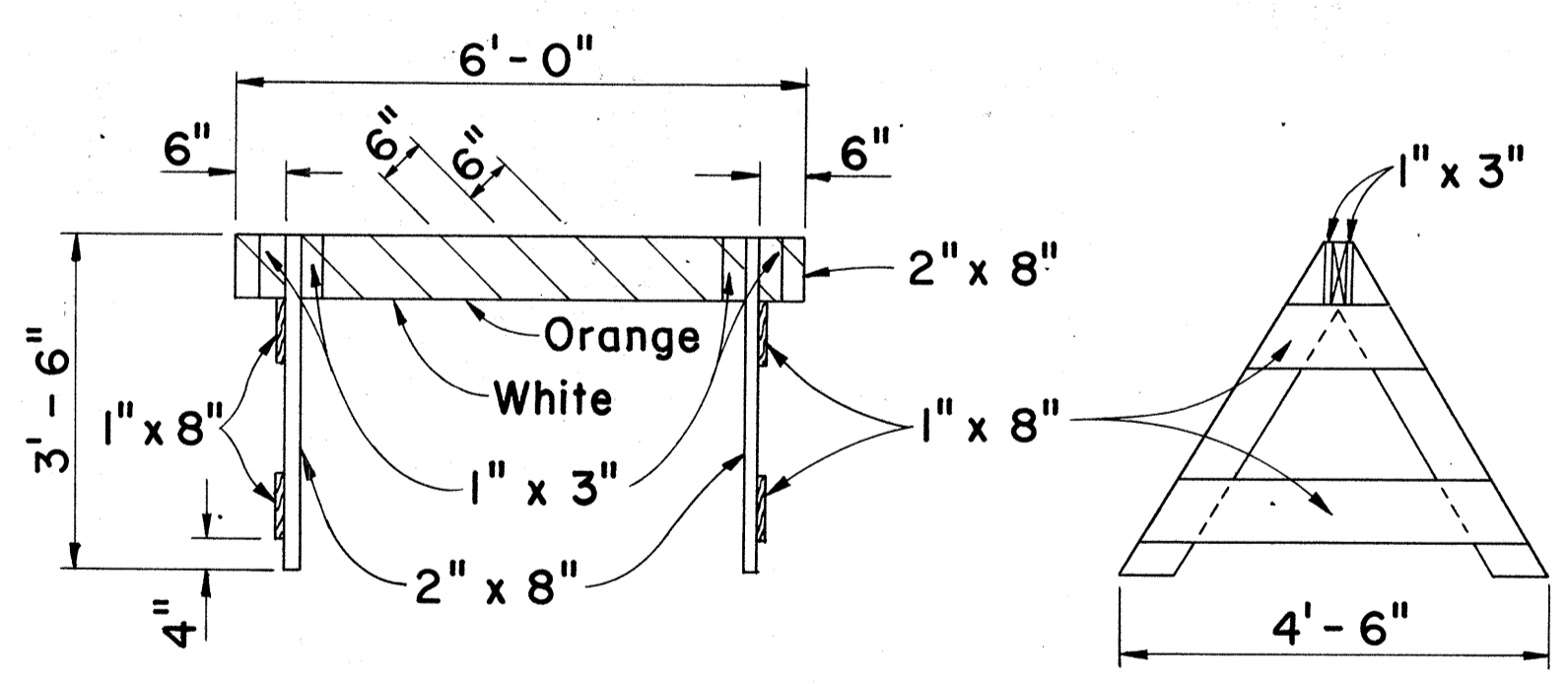
Scale: 1/2" = 1'-0"



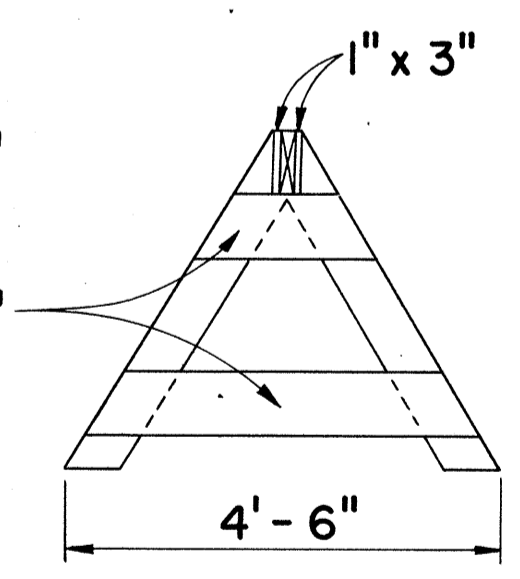
END VIEW



PLAN VIEW



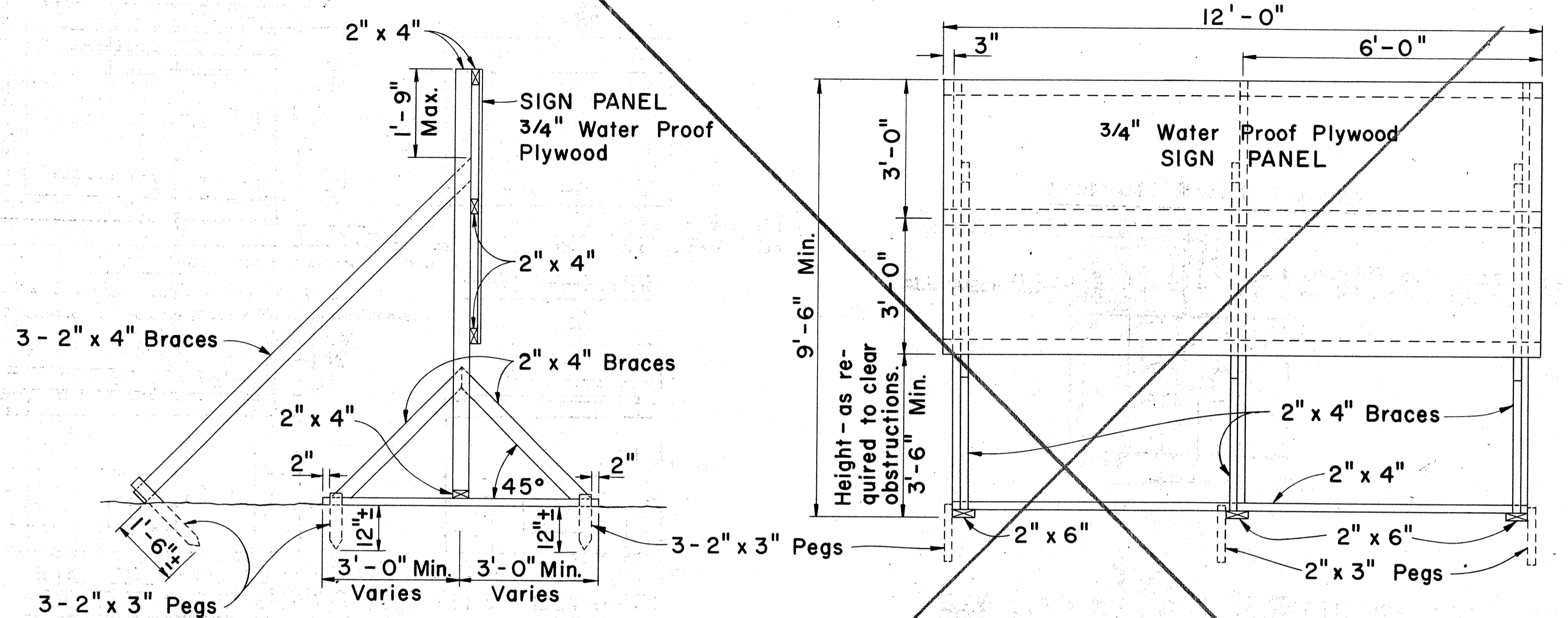
FRONT VIEW



END VIEW

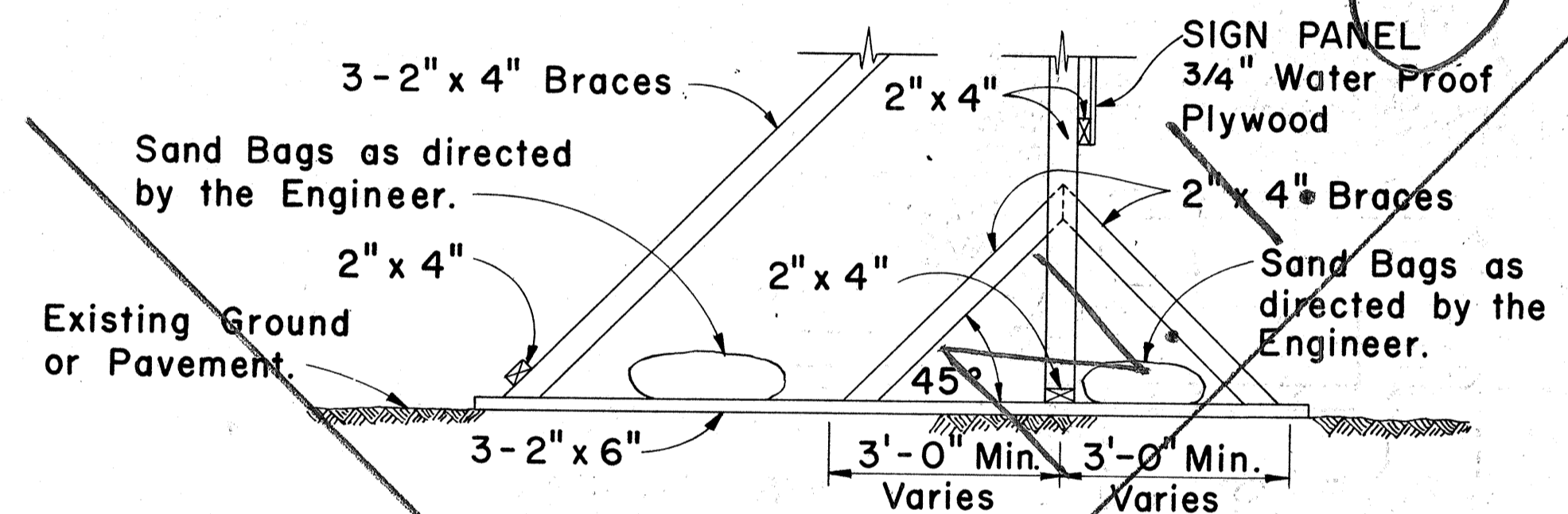
CLASS II BARRICADE

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



SIDE VIEW
(SIGN FRAME ANCHORED IN GROUND)
Scale: 1/2" = 1'-0"

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



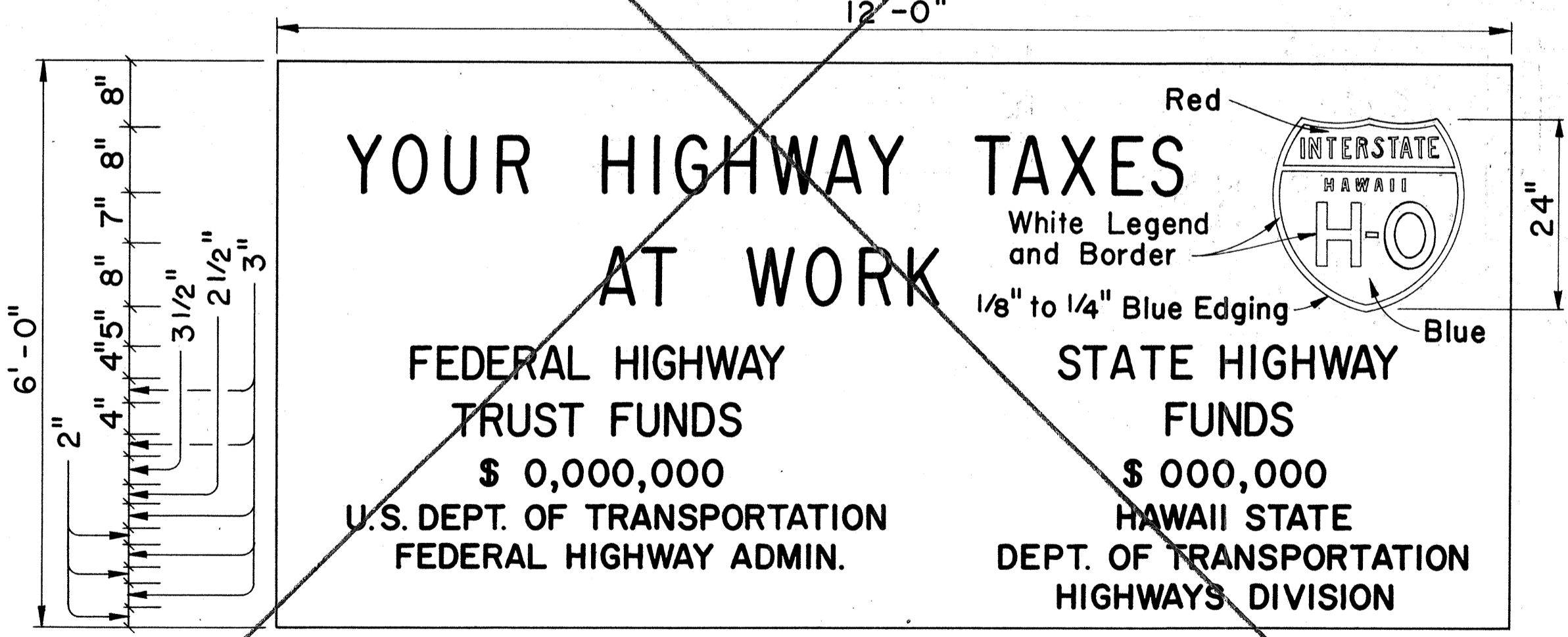
SIDE VIEW
(SIGN FRAME WEIGHTED DOWN)
Scale: 1/2" = 1'-0"

GENERAL NOTES

1. The sign legend shall be black on white background except for the Interstate Route marker which shall be as shown on the plan.
2. The Contractor shall construct, install and maintain the project signs at the locations shown on the Plans and as ordered by the Engineer.
3. 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, 1966.
4. The Contractor shall fill in the proper numerals in place of ciphers as ordered by the Engineer.

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

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



SIGN PANEL
Scale: 3/4" = 1'-0"
INTERSTATE SYSTEM
CONSTRUCTION IDENTIFICATION SIGN
Scale: As Shown

NO	REVISION	APPROVED BY	DATE
1	Reduce sign width to 12'-0"	H.T.	9-3-10
2	Delete "Bureau of Public Roads"	H.T.	9-29-10
3	Add Note No. 3 for Barricades	H.T.	5-4-11
4	Revise stripe color for Barricades	H.T.	10-21-12

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL DETAILS
CONSTRUCTION IDENTIFICATION SIGN
AND
WOOD BARRICADES

SCALE: As Shown DATE: DEC 13, 1974
SHEET No. 11 OF 11 SHEETS DT 800

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