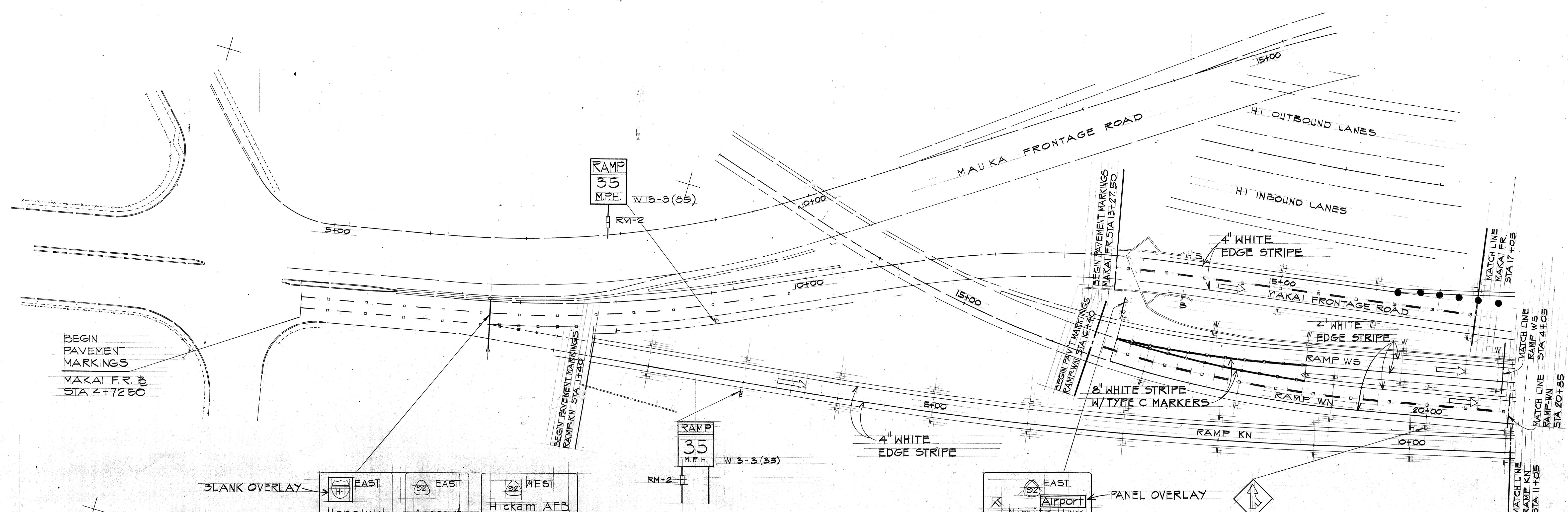
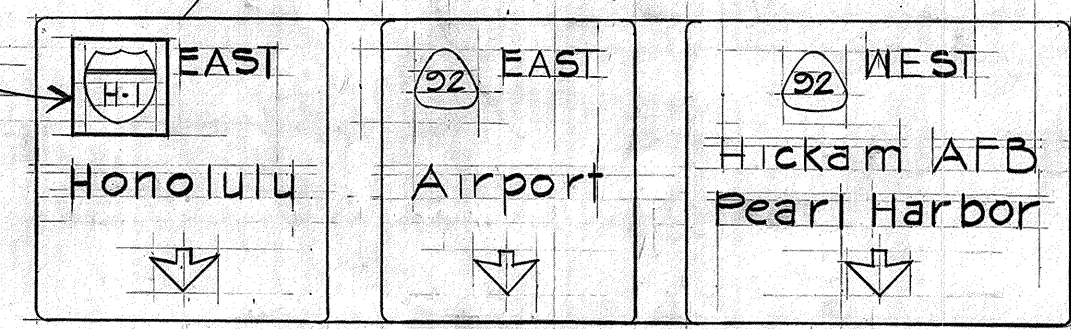


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI(73)13	1974	108	369

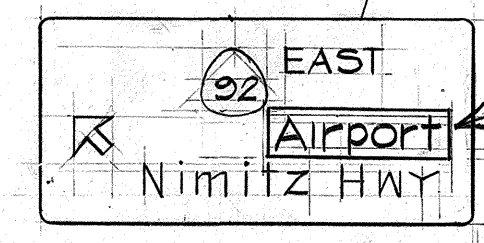


**GENERAL NOTES:**

- ALL EDGE OF PAVEMENT TO BE WHITE PAINTED STRIPE, EXCEPT ON THE LEFT EDGE OF EACH ROADWAY OF DIVIDED STREETS AND HIGHWAYS WHICH SHALL BE SOLID YELLOW WITH TYPE "H" MARKERS 40' O.C., AND EXCEPT WHERE SHOWN OTHERWISE.
- SUBSCRIPTS "W" & "B" WITH DELINEATORS INDICATE DELINEATOR MOUNTED DIRECTLY ON RETAINING WALL OR BARRIER RESPECTIVELY.
- ALL SIGNING AND PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- NON APPLICABLE SIGNS TO BE COVERED AS APPROVED BY THE ENGINEER.
- BIKE LANES TO BE SOLID WHITE STRIPE.



SIGN E-2  
MAKAI F.R. STA 6+70

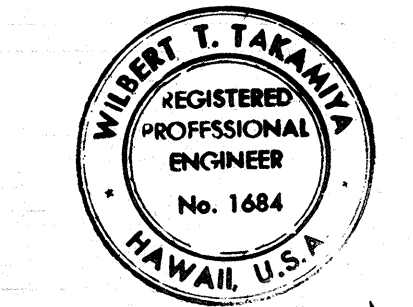
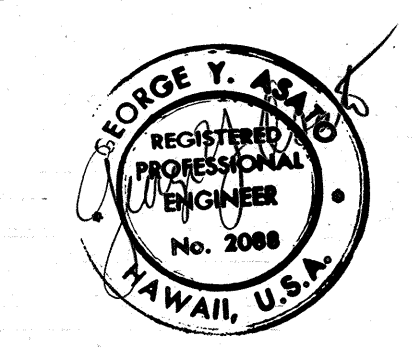


SIGN E-14  
RAMP WS @ STA 0+00 = RAMP WN @ STA 16+63

**LEGEND**

- (SEE STANDARD PLANS FOR DETAILS)
- FREEWAY LANE LINE (TYPE A & C MARKERS)\*
  - MULTI-LANE LANE LINE (TYPE A & C MARKERS) FOR VALKENBURGH ST BETWEEN MAUKA & MAKAI F.R. CHANNELIZING LINE (TYPE C & WHITE PAINTED STRIPE)
  - CENTERLINE PASSING NOT PERMITTED (DOUBLE SOLID YELLOW STRIPE & TYPE D MARKER)
  - CENTERLINE PASSING NOT PERMITTED (DOUBLE SOLID YELLOW STRIPE)
  - CENTERLINE PASSING PERMITTED (SOLID YELLOW STRIPE 15 FEET LONG, SPACED AT 25' INTERVAL)
  - EDGE OF PAVEMENT LINE (SOLID YELLOW STRIPE & TYPE H MARKERS)
  - DOTTED LANE LINE EXTENSION (2' WHITE STRIPE SPACED 20 FEET APART)
  - RM-2
  - RM-9
- \*LANE LINES AND CHANNELIZING LINES ON RAMP NS, MN AND MAKAI FRONTAGE ROAD (STA 36+00 TO PROJECT LIMIT) TO BE TYPE C MARKERS AND WHITE PAINTED STRIPES.

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION
10/12/76	REVISED SIGN E-2 & E-14
7/20/75	ADDED PAVEMENT STRIPING PAVEMENT MARKERS, REFLECTOR MARKERS AND SIGNING FROM MAKAI FRONTAGE ROAD STA. 4+72.50 TO 0+00.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING AND PAVEMENT MARKING PLAN**

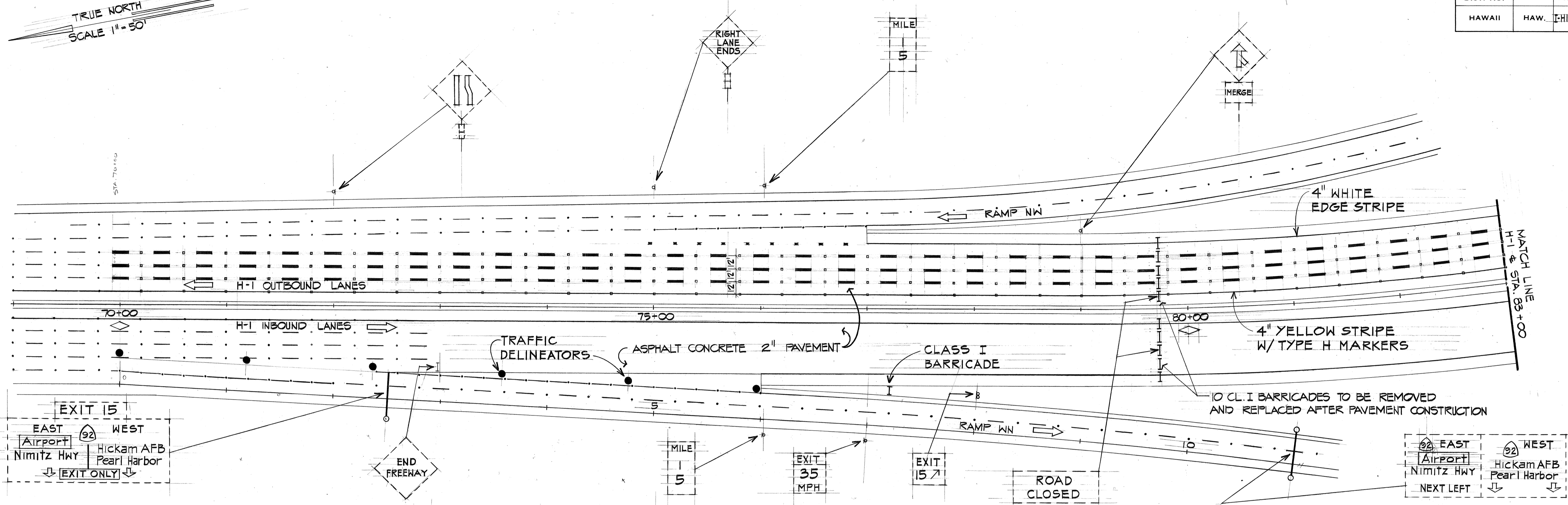
PEARL HARBOR INTERCHANGE  
F.A.I. Proj. No. I.H.I - 1(73) - 13

Scale: As Shown Date: DEC. 7, 1973

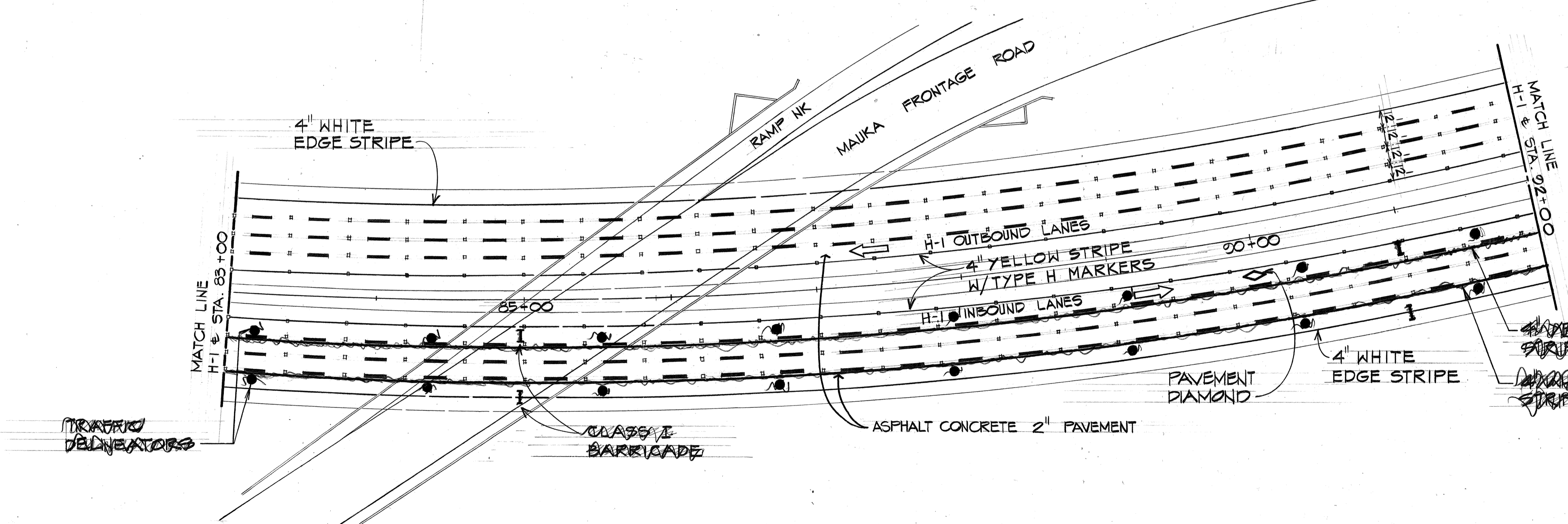
SHEET NO. 108 OF 26 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHI-1(73):15	1974	00,108S-1	369

TRUE NORTH  
SCALE 1" = 50'

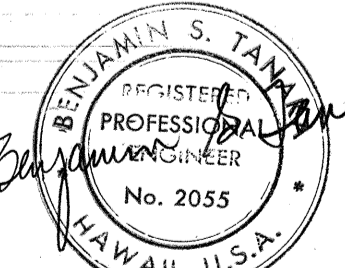


TRUE NORTH  
SCALE 1" = 50'



NOTES:  
1. CONTRACT WORK TO INCLUDE ASPHALT CONCRETE 2" PAVEMENT FOR H-1 INBOUND @ STA. 70+00 TO 92+00 AND H-1 OUTBOUND @ STA. 73+00 TO 92+00

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

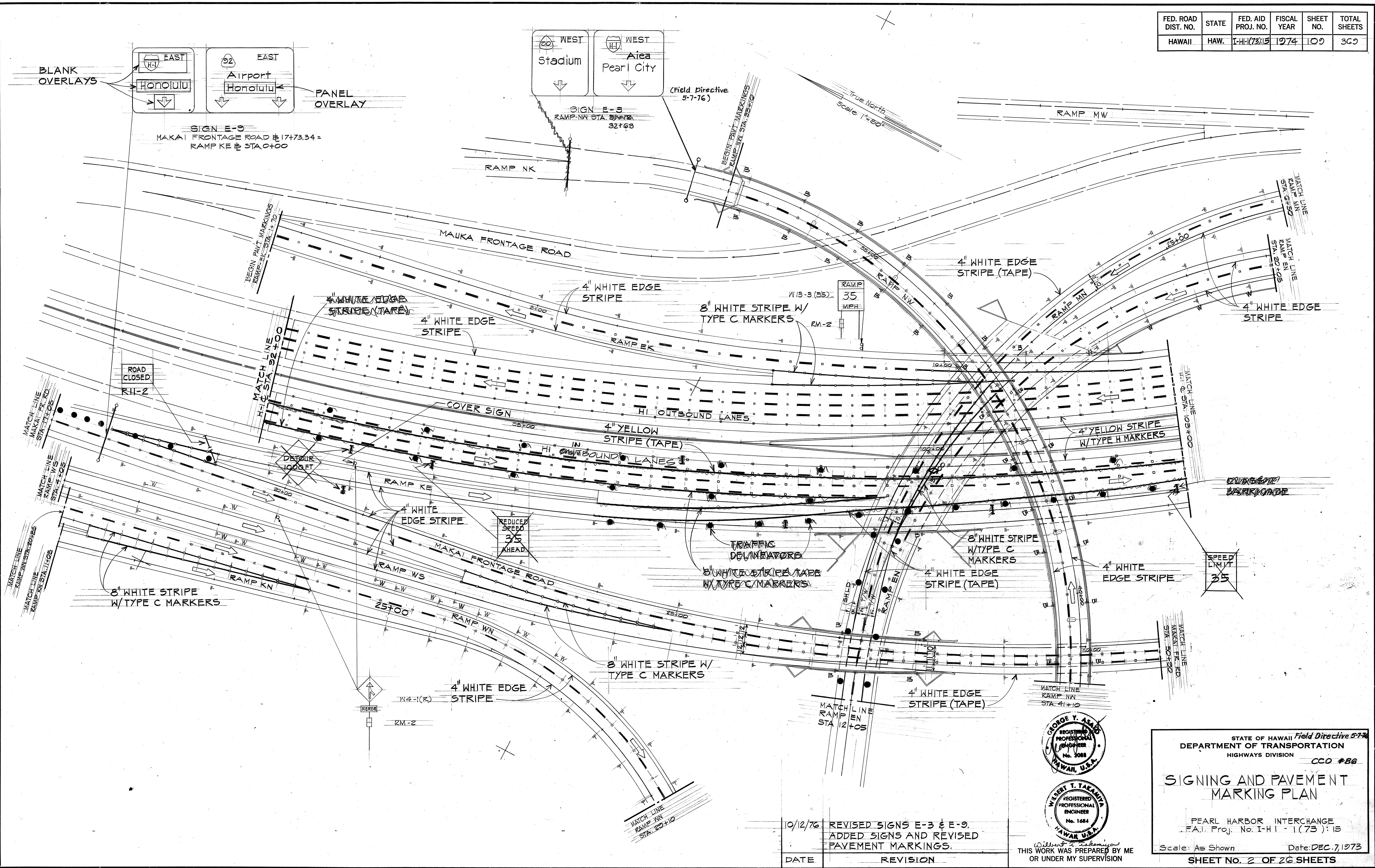
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
CCO #86

### SIGNING AND PAVEMENT MARKING PLAN

PEARL HARBOR INTERCHANGE  
F.A.I. PROJ. NO. IHI-1 (73) : 15

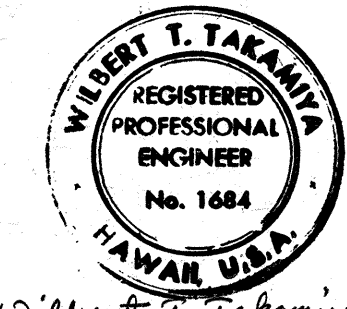
SCALE: AS SHOWN  
DATE: OCT. 12, 1976  
SHEET NO. 1A OF 26 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(73):15	1974	109	309



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

10/12/76	REVISED SIGNS E-3 & E-9, ADDED SIGNS AND REVISED PAVEMENT MARKINGS.
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII *Field Directive 5-76*  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION CCO #86

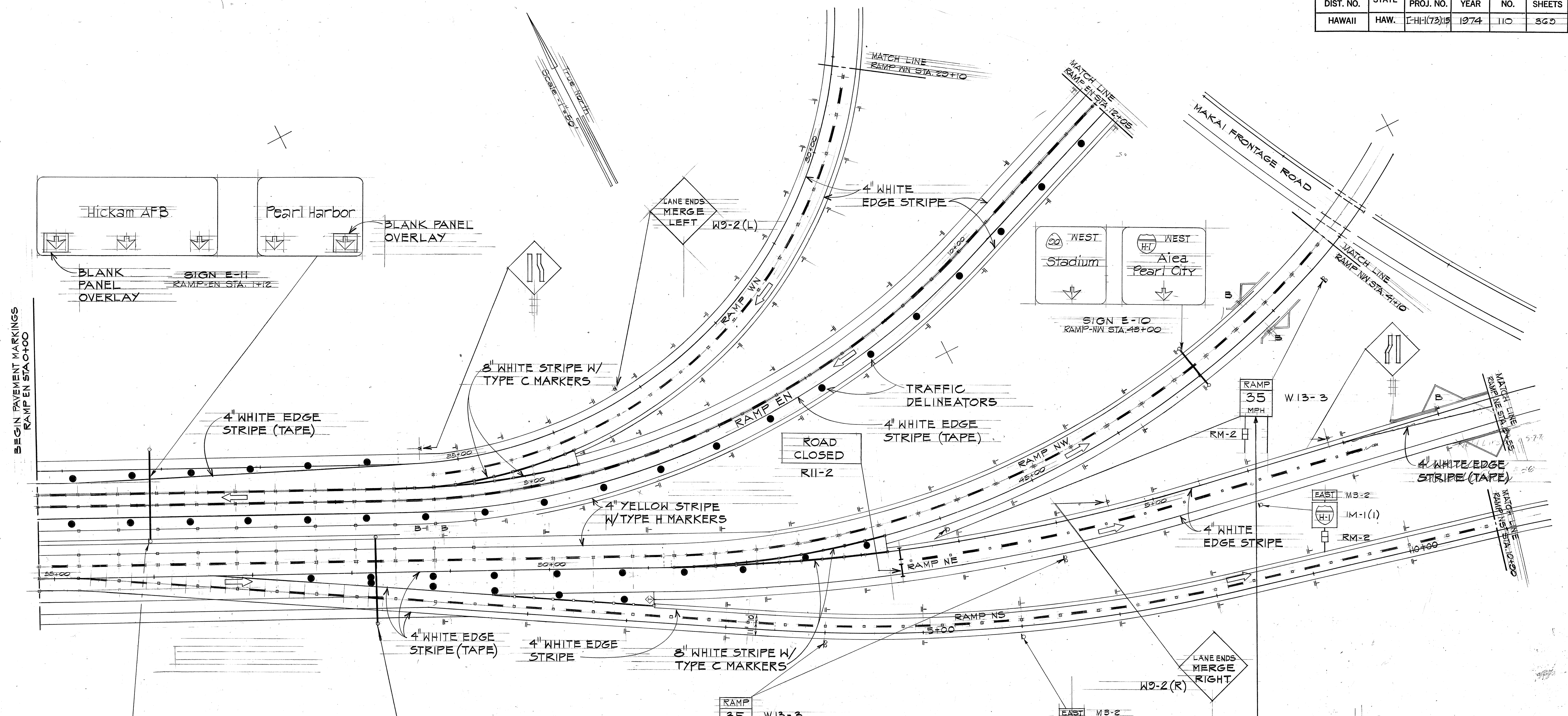
### SIGNING AND PAVEMENT MARKING PLAN

PEARL HARBOR INTERCHANGE  
 F.A.I. Proj. No. I-H-1(73):15

Scale: As Shown Date: DEC. 7, 1973

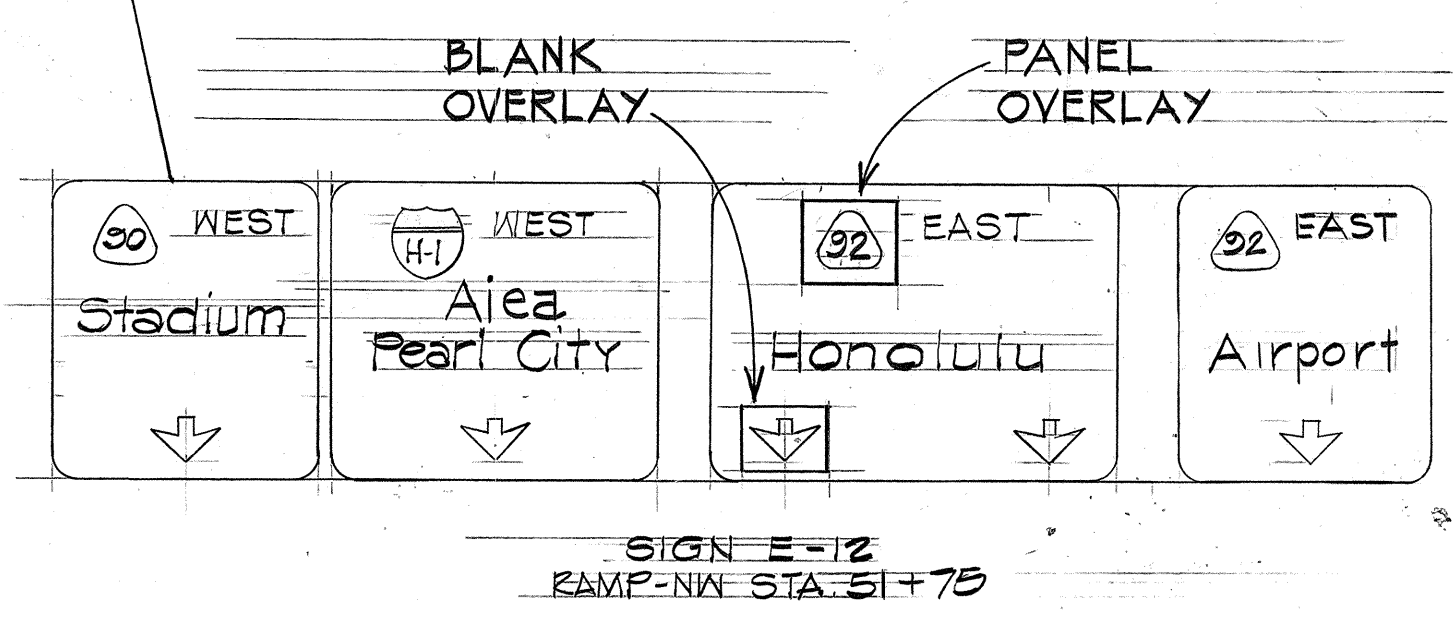
SHEET NO. 2 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(73)15	1974	110	365



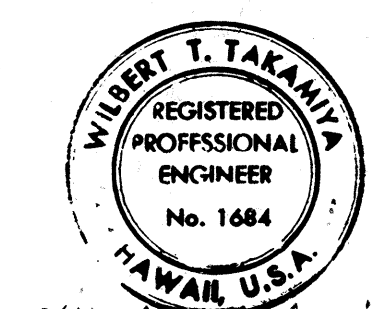
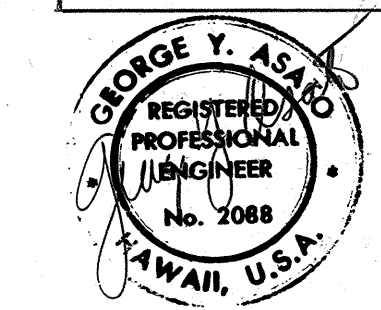
ORIGINAL SURVEY PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 TRACED BY: \_\_\_\_\_  
 NOTE BOOK DESIGNED BY: \_\_\_\_\_  
 QUANTITIES BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

UNLICENSED VEHICLES UNDER 5'6" FEET RESTRICTED KEEP OUT FREEWAY K16-5



DATE	REVISION
10/12/76	REVISED SIGNS E-10, E-11 & E-12. ADDED SIGNS AND REVISED PAVEMENT MARKINGS
9/10/76	REVISED SIGN E-12 LOCATION
2/28/75	REVISED 30 MILE SPEED LIMIT SIGN ON RAMP NW.

FIELD DIRECTIVE MARCH 10, 1975



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION CCO #86  
 FIELD DIRECTIVE 3-10-75

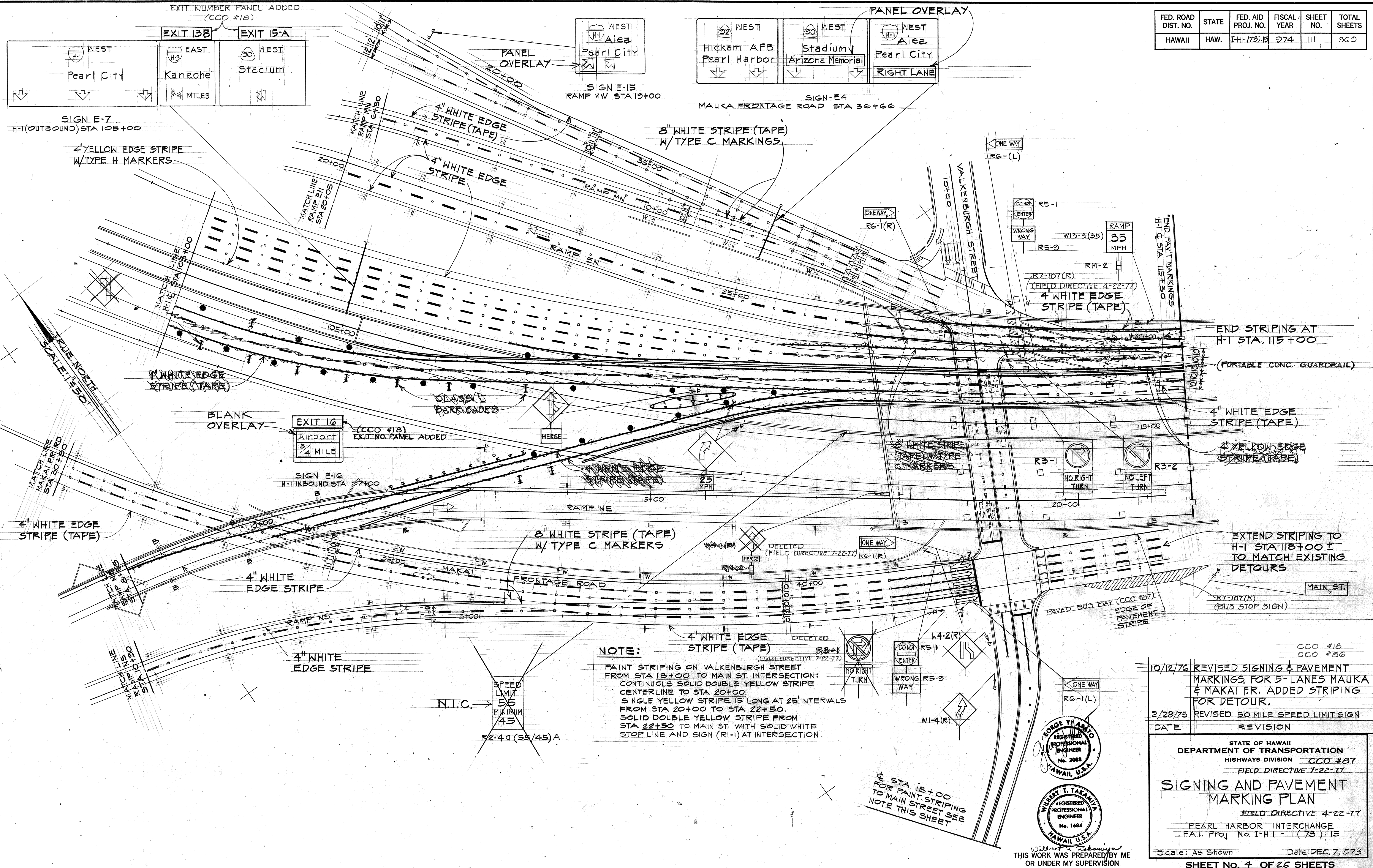
### SIGNING AND PAVEMENT MARKING PLAN

PEARL HARBOR INTERCHANGE  
 F.A.I. Proj. No. I-H-1 - 1(73) : 15

Scale: As Shown Date: DEC. 7, 1973  
 SHEET NO. 3 OF 26 SHEETS

C.O. IIOR

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HH(73):15	1974	111	369



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

**NOTE:**  
 1. PAINT STRIPING ON VALKENBURGH STREET FROM STA 18+00 TO MAIN ST. INTERSECTION: CONTINUOUS SOLID DOUBLE YELLOW STRIPE CENTERLINE TO STA 20+00. SINGLE YELLOW STRIPE 15' LONG AT 25' INTERVALS FROM STA 20+00 TO STA 22+50. SOLID DOUBLE YELLOW STRIPE FROM STA 22+50 TO MAIN ST. WITH SOLID WHITE STOP LINE AND SIGN (R1-1) AT INTERSECTION.

N.I.C. →  
 SPEED LIMIT  
 55  
 MINIMUM  
 45  
 R2-4 (55/45)A

10/12/76 REVISED SIGNING & PAVEMENT MARKINGS FOR 5-LANES MAUKA & MAKAI FR. ADDED STRIPING FOR DETOUR.  
 2/28/75 REVISED 50 MILE SPEED LIMIT SIGN  
 DATE REVISION

GEORGE YAMATO  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 2088  
 HAWAII, U.S.A.

WISNET T. TAKAMIA  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 1484  
 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION CCO #87  
 FIELD DIRECTIVE 1-22-77  
**SIGNING AND PAVEMENT MARKING PLAN**  
 FIELD DIRECTIVE 4-22-77  
 PEARL HARBOR INTERCHANGE  
 F.A.I. Proj. No. I-H-1-1(73):15  
 Scale: As Shown Date: DEC. 7, 1973  
 SHEET NO. 4 OF 26 SHEETS

C.O. IIR

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	112	369

### REFLECTOR MARKERS SUMMARY

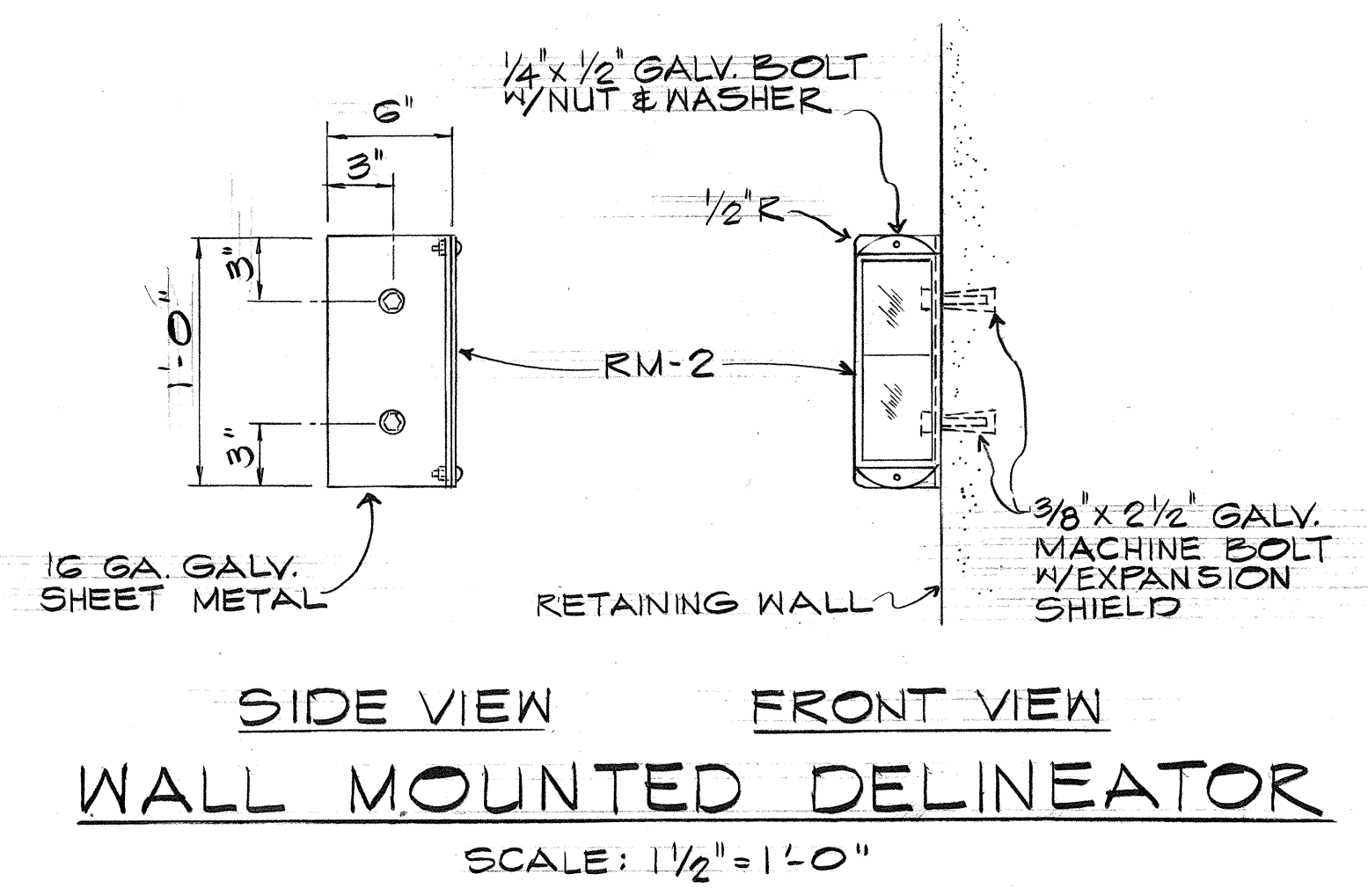
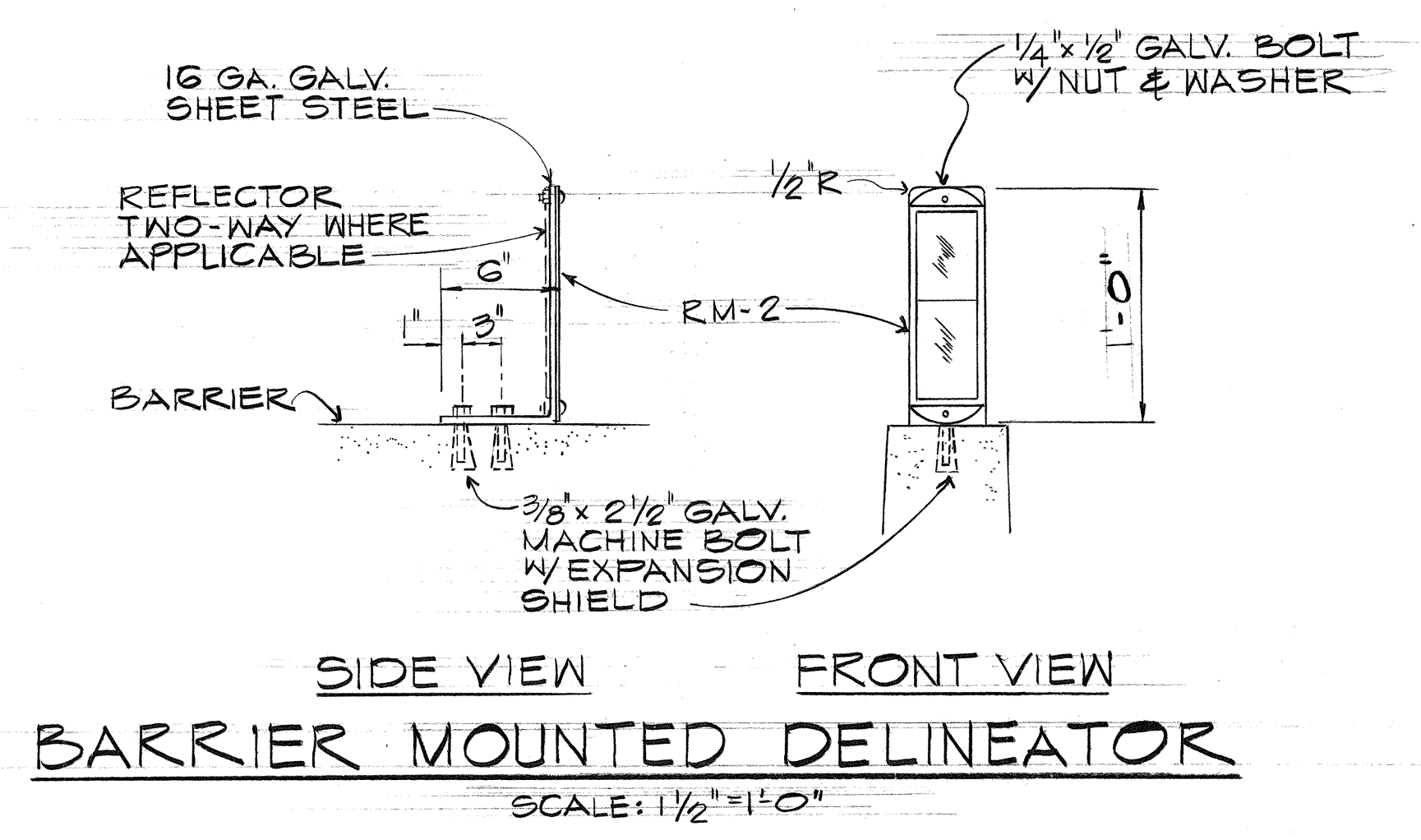
SHEET NO.	RM-2				RM-9	
	W/P	W/O/P	O/WALL	O/B	W/P	W/O/P
1	34	3	4	2	1	
2	102	3	17	30		
3	78	8		5	1	
4	56	2	11	11	1	
<b>TOTAL</b>	<b>270</b>	<b>16</b>	<b>32</b>	<b>48</b>	<b>3</b>	

### PERMANENT SIGNING SUMMARY

TYPE	DESCRIPTION	QUANTITY	
		W/P	W/O/P
R1-1	STOP. SEE SHEET 22	3	
<del>124A(55/45)A</del>	<del>SPEED LIMIT 45 MIN. 45</del>	1	
R5-1	DO NOT ENTER	3	
R5-9	WRONG WAY →		3
RG-1(R)	ONE WAY ←	4	
RG-1(L)	ONE WAY	2	
RIG-5	UNLICENSED VEHICLES, BICYCLES CYCLES UNDER 5 HP PEDESTRIANS KEEP OUT FREEWAY		1
WI-4(R)	↗	1	
W4-1(R)	↑ MERGE	4	
W4-2(R)		1	
W11-1	BIKE. SEE SHEET 134	4	
W13-3(30)	RAMP 30 M.P.H.	2	
W13-3(35)	RAMP 35 M.P.H.	6	
M1-6(32)	⊗	1	
M3-2	EAST		2
IM-1(1)	Ⓜ	1	
W11-2	PEDESTRIAN	2	
R3-1	NO RIGHT TURN	1	2
R3-2	NO LEFT TURN	1	
<b>TOTAL</b>		<b>36</b>	<b>8</b>

### RAISED PAVEMENT MARKERS SUMMARY

SHEET NO.	QUANTITY			
	TYPE A	TYPE C	TYPE D	TYPE H
1	80	41	-	-
1A	924	234	-	78
2	1228	400	-	40
3	548	159	-	22
4	1359	502	81	10
<b>TOTAL</b>	<b>4139</b>	<b>1336</b>	<b>81</b>	<b>150</b>



DATE	REVISION
10/12/76	REVISED RAISED PAVEMENT MARKERS SUMMARY, PAVEMENT SIGNING SUMMARY AND REFLECTOR MARKERS SUMMARY.
7/20/78	REVISED REFLECTOR MARKERS SUMMARY, RAISED PAVEMENT MARKERS SUMMARY AND SIGNING SUMMARY.

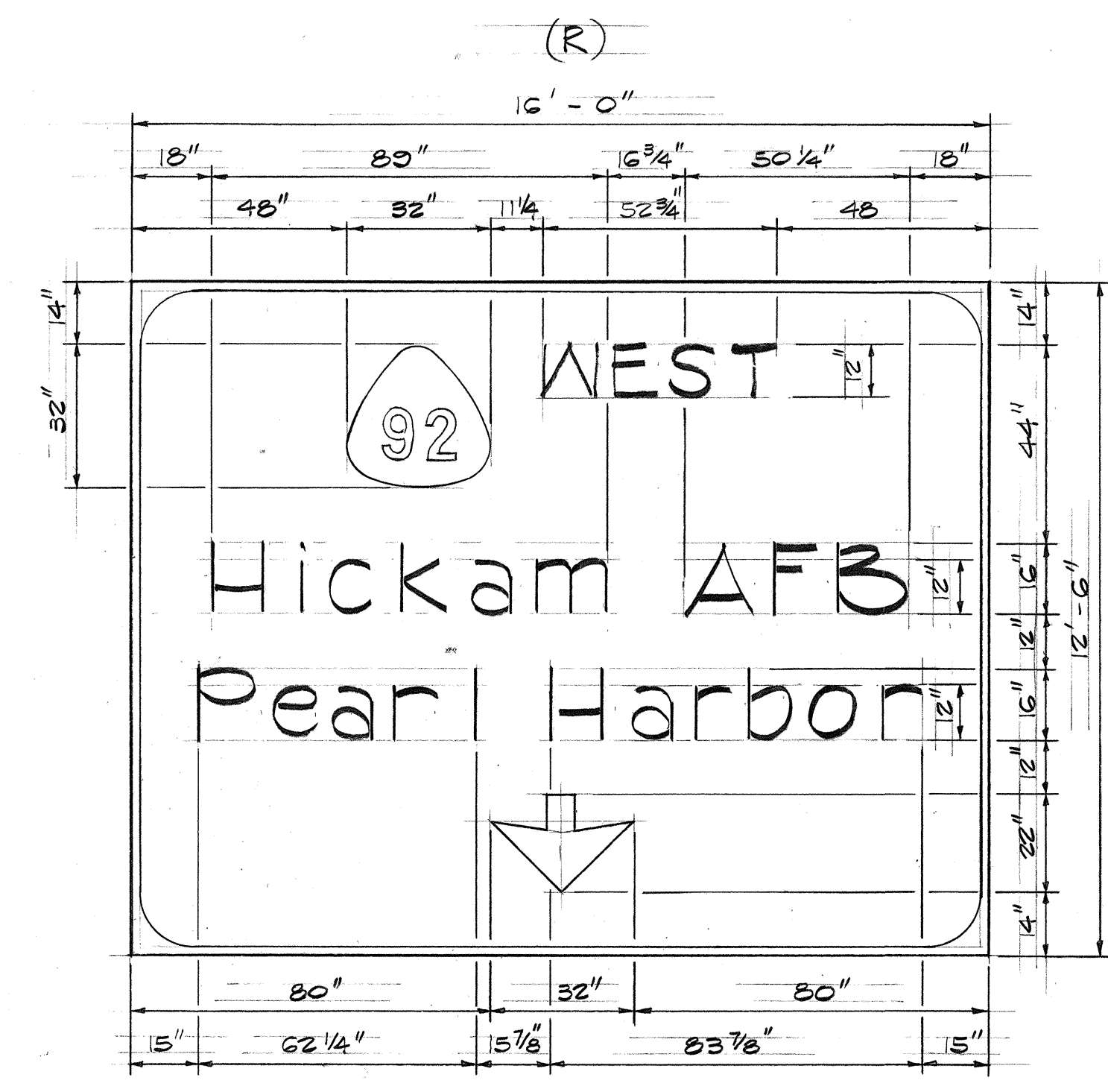
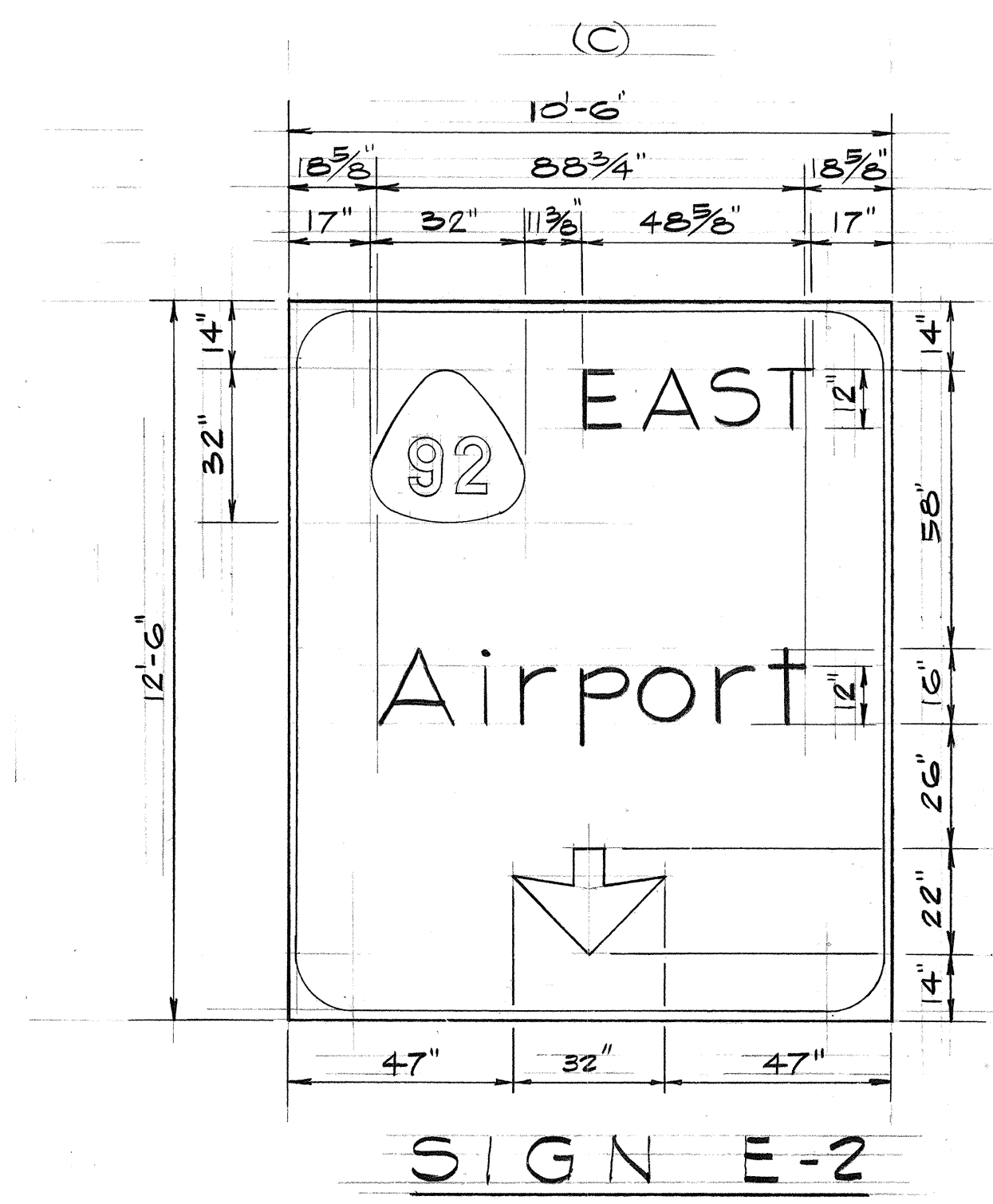
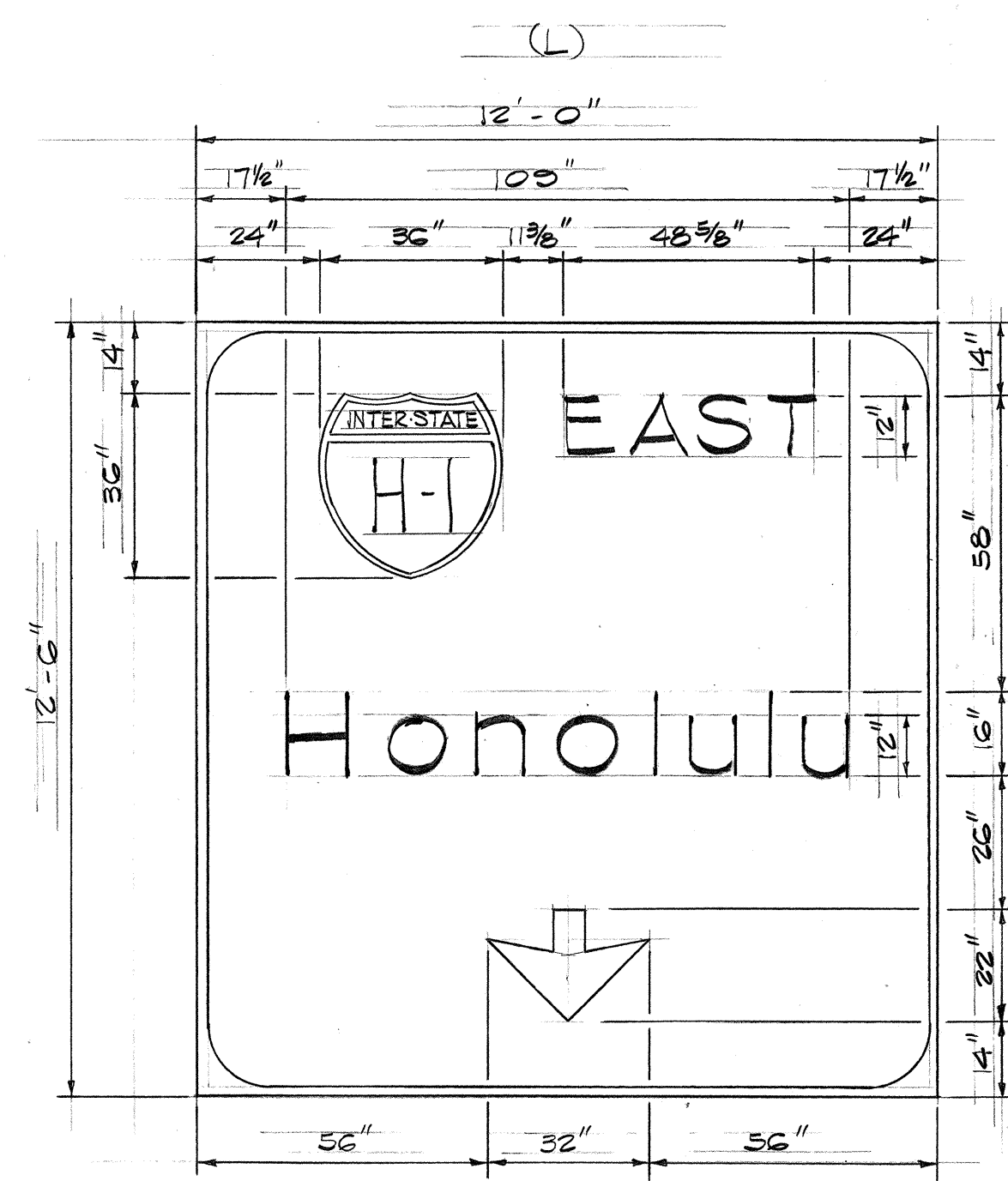
WITHOUT SIGNATURE  
 THIS WORK WAS PREPARED BY ME  
 OR UNDER MY SUPERVISION

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
  
**SIGNING & PAVEMENT MARKING  
 MISCELLANEOUS DETAILS**
  
 PEARL HARBOR INTERCHANGE  
 F.A.I. PROJ. NO. I-HI-1(73)15  
 SCALE: AS SHOWN      DATE: DEC. 7, 1973  
**SHEET NO. 5 OF 20 SHEETS**

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

C.O. 112R

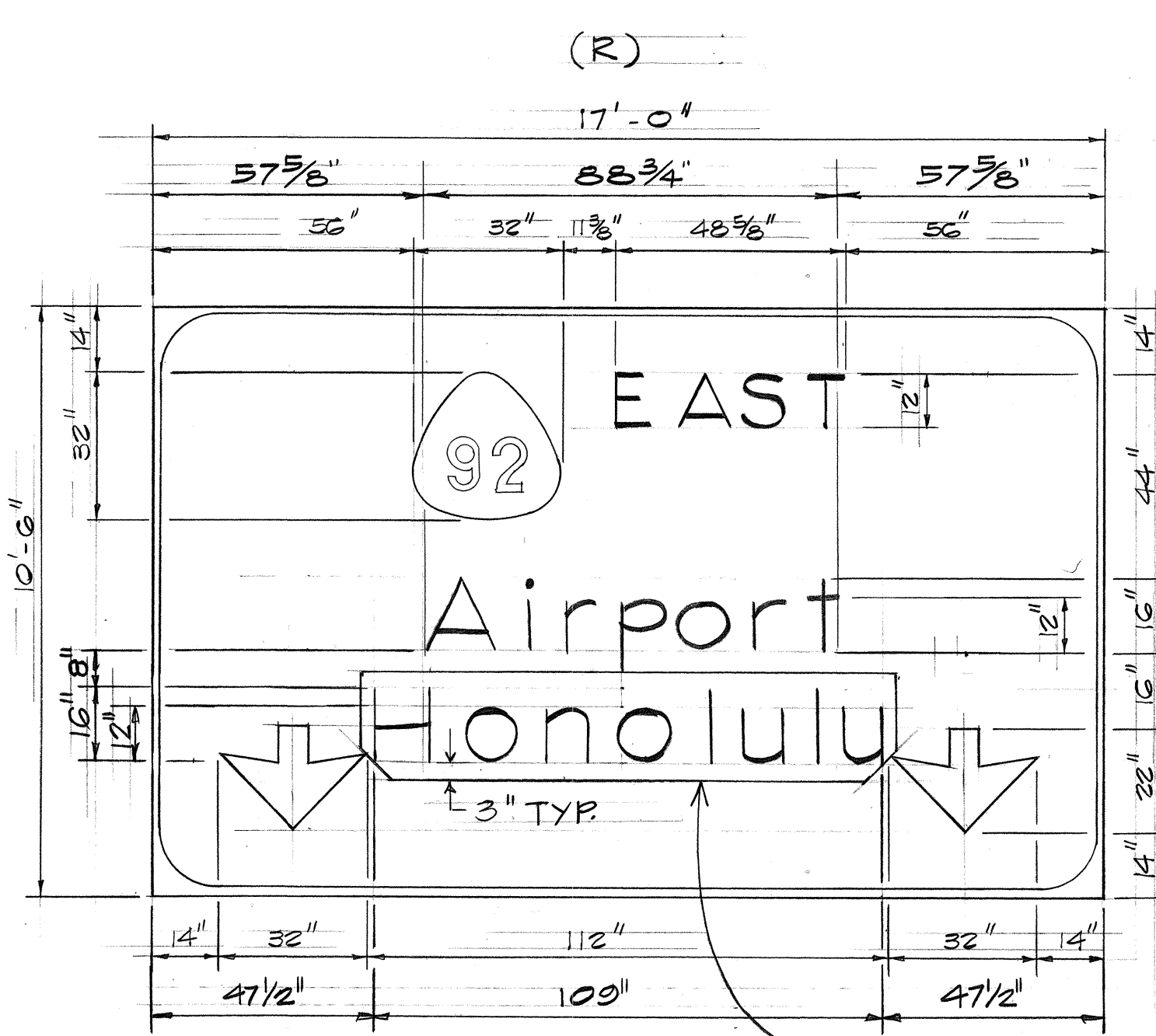
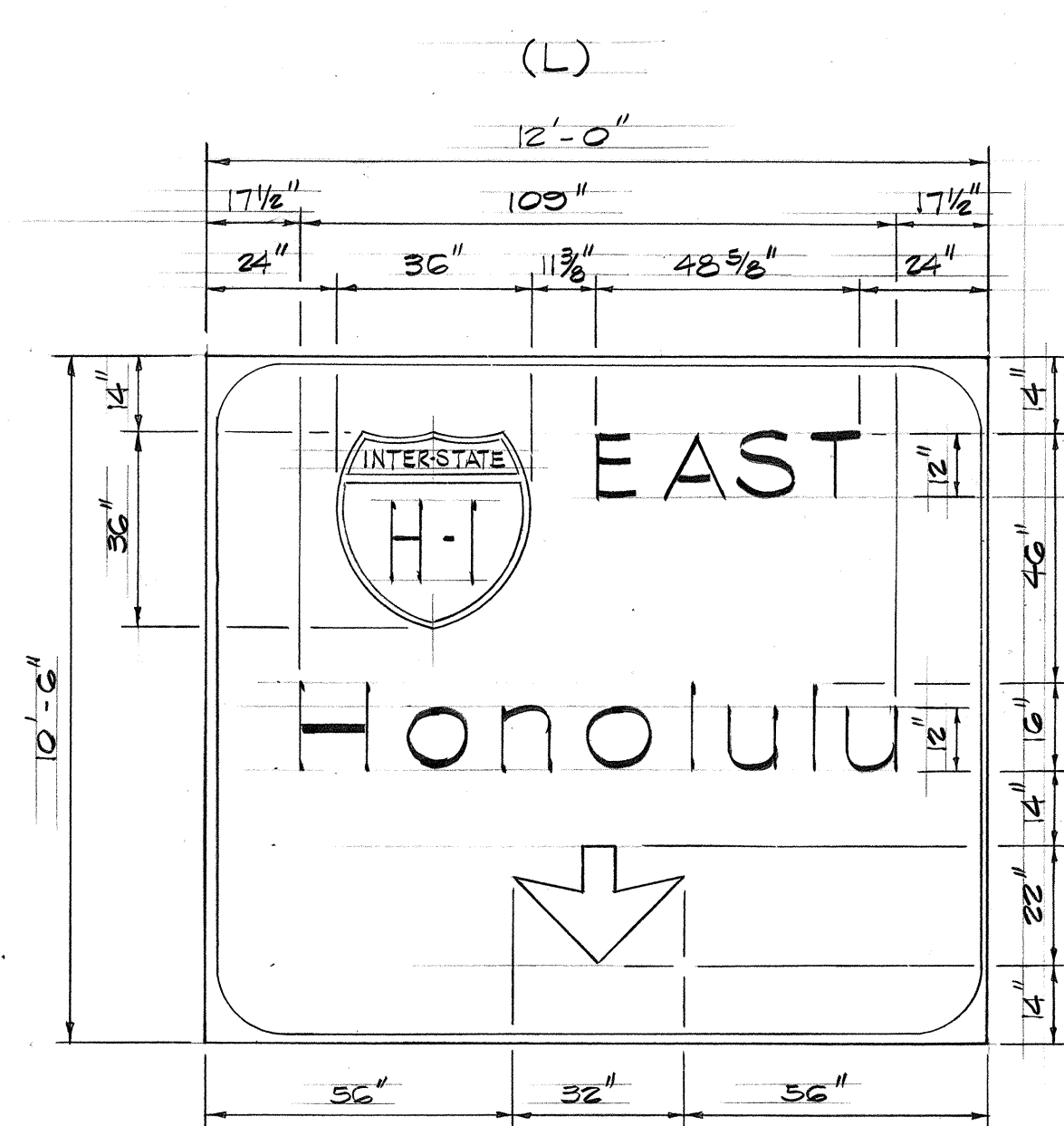
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI(73)15	1974	113	369



SIGN E-2

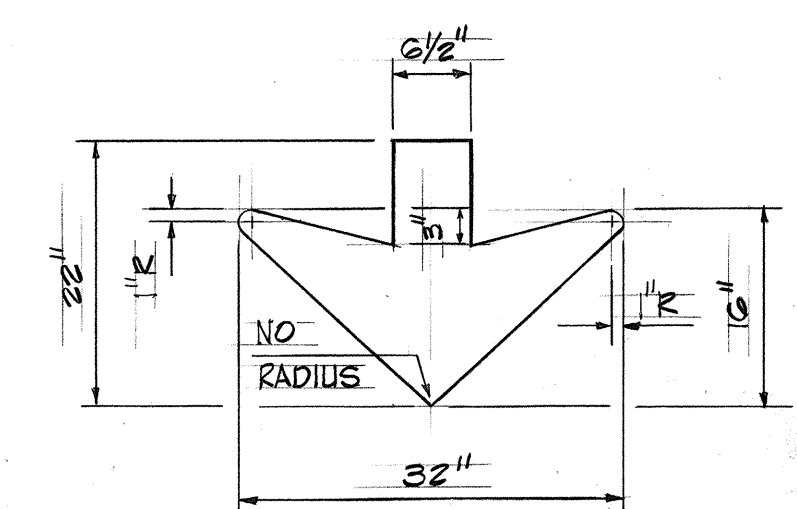
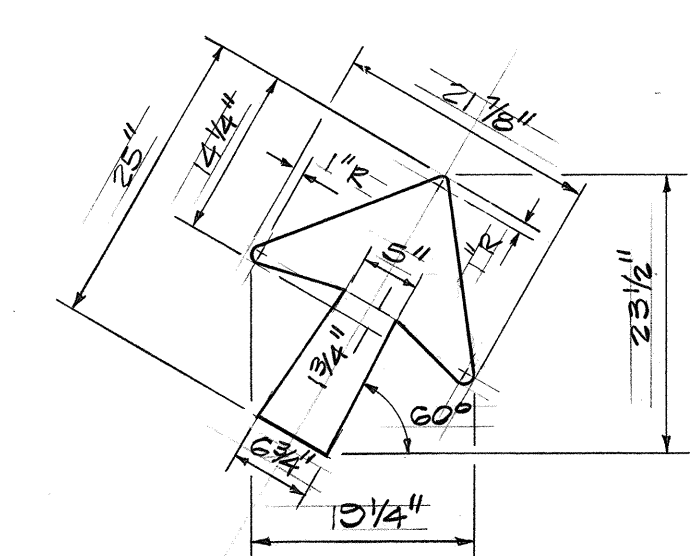
**GENERAL NOTES:**

- LETTERS SHALL CONFORM TO THE MODIFIED SERIES "E" LETTERS SHOWN IN THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS," BUREAU OF PUBLIC ROADS, 1966
- 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.
- 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.
- DESTINATION SIGNS (D) SHALL HAVE WHITE REFLECTIVE SHEETING ON ALUMINUM CUT-OUTS ON GREEN REFLECTIVE SHEETING BACKGROUND.
- "EXIT ONLY" PANELS SHALL BE DEMOUNTABLE ALUMINUM CUT-OUTS WITH BLACK LEGEND ON REFLECTORIZED YELLOW BACKGROUND.
- SEE SHEET 313 TO 322 FOR OVERHEAD SIGN SUPPORTS AND DETAILS.



SIGN E-9

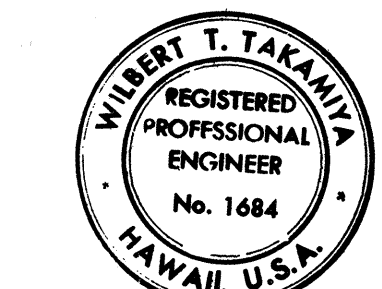
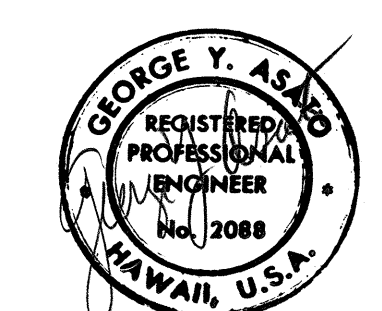
PANEL OVERLAY



**TYPICAL ARROW DETAIL**

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

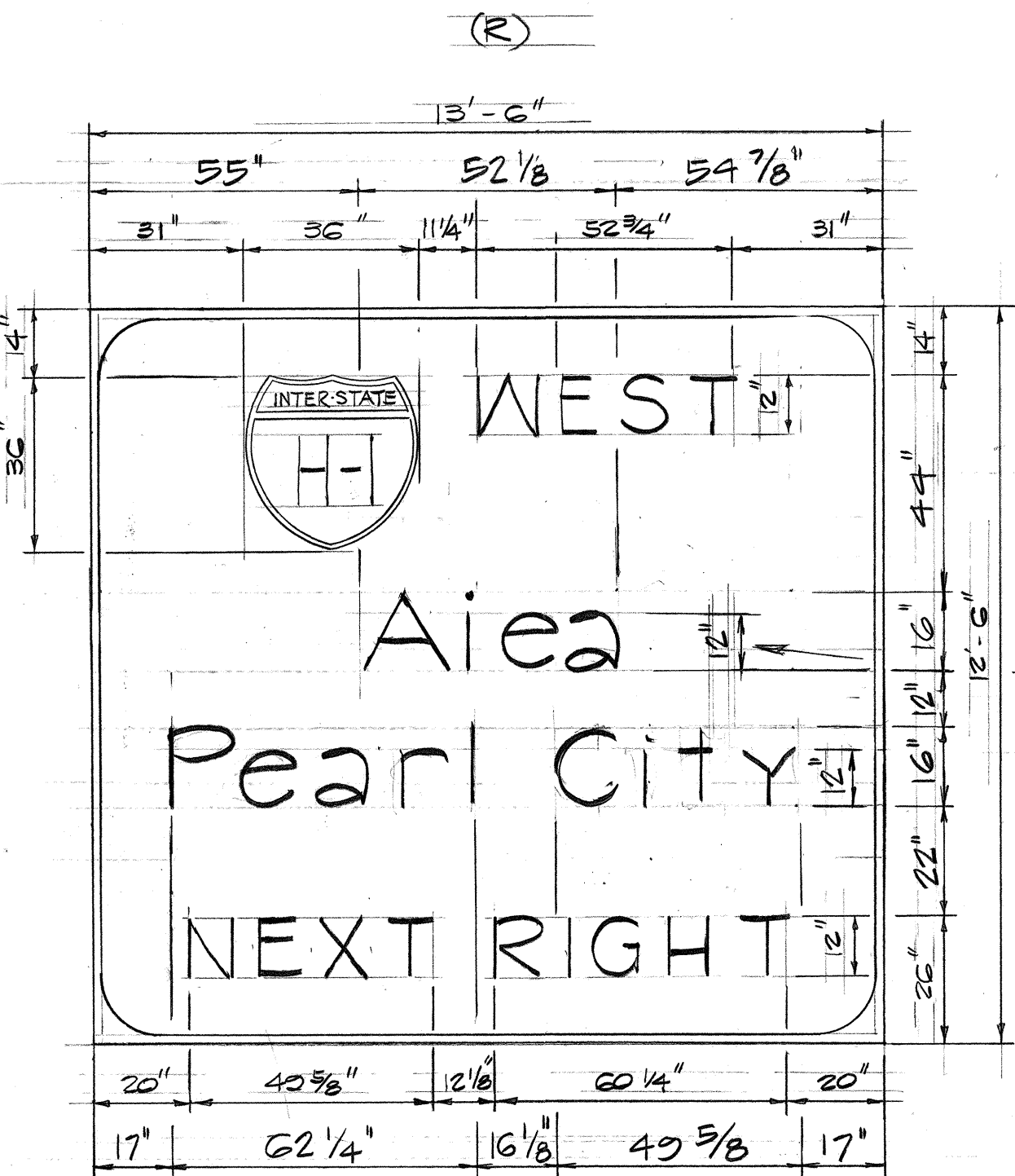
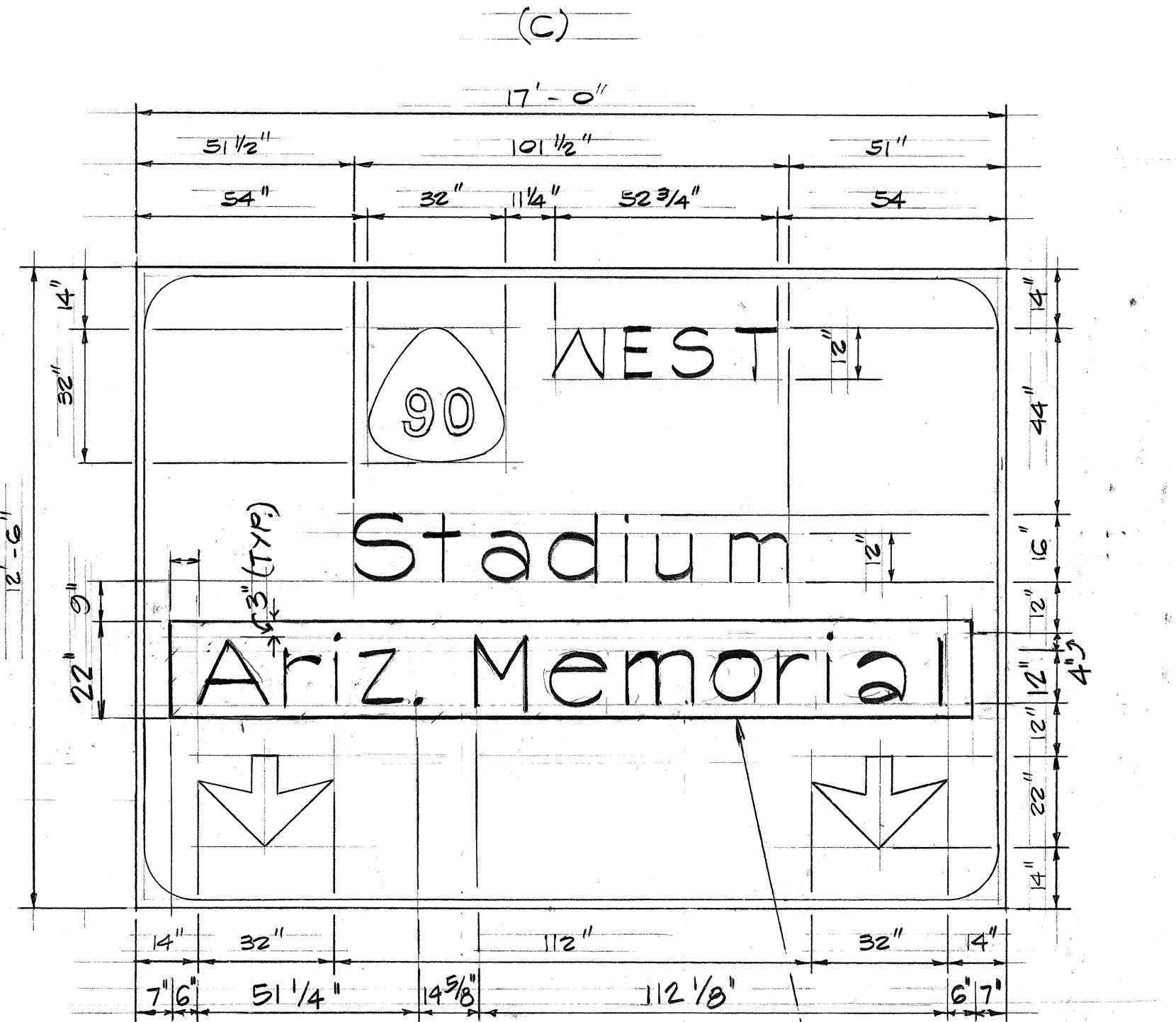
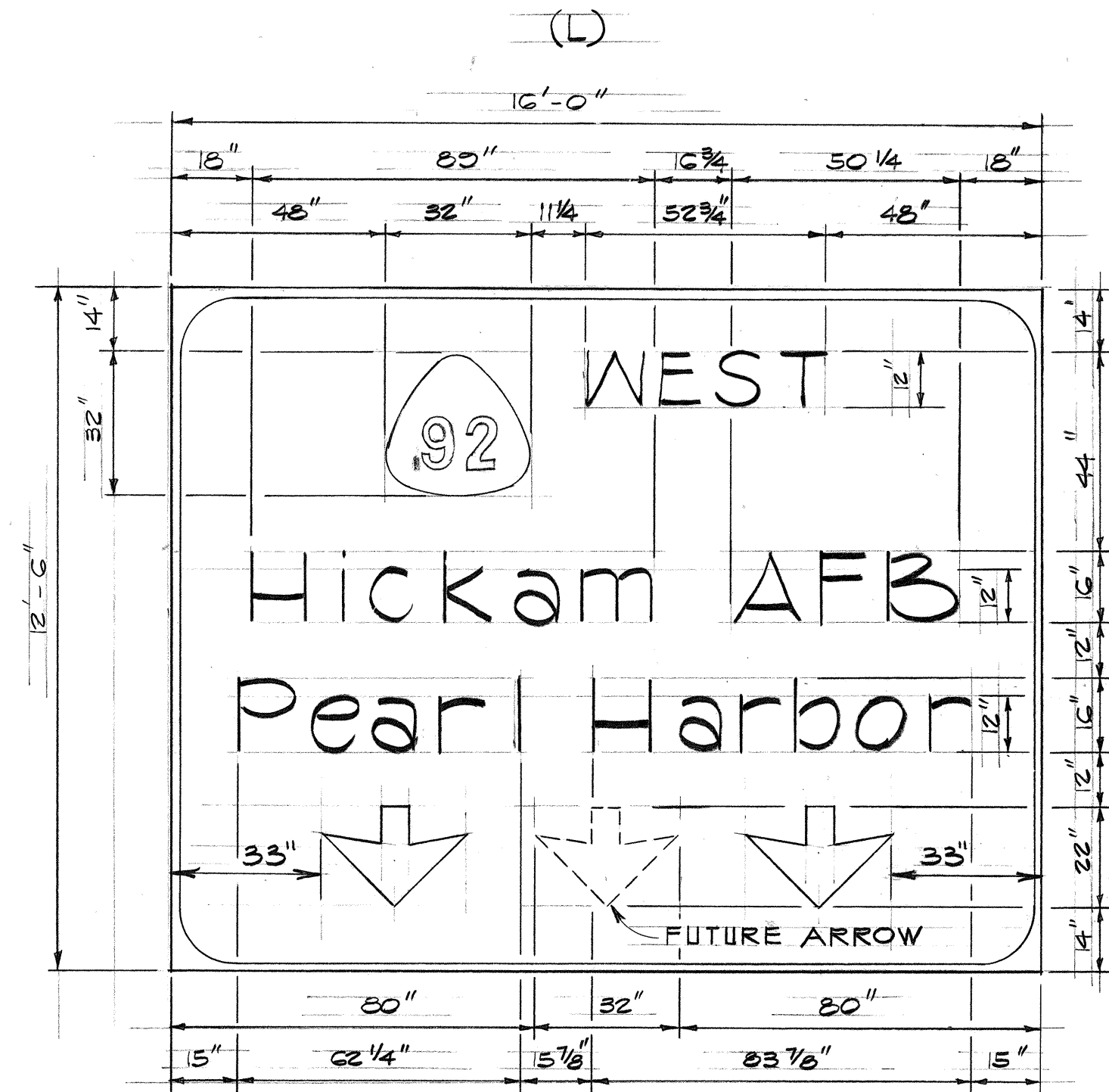
ORIGINAL PLAN	DATE
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



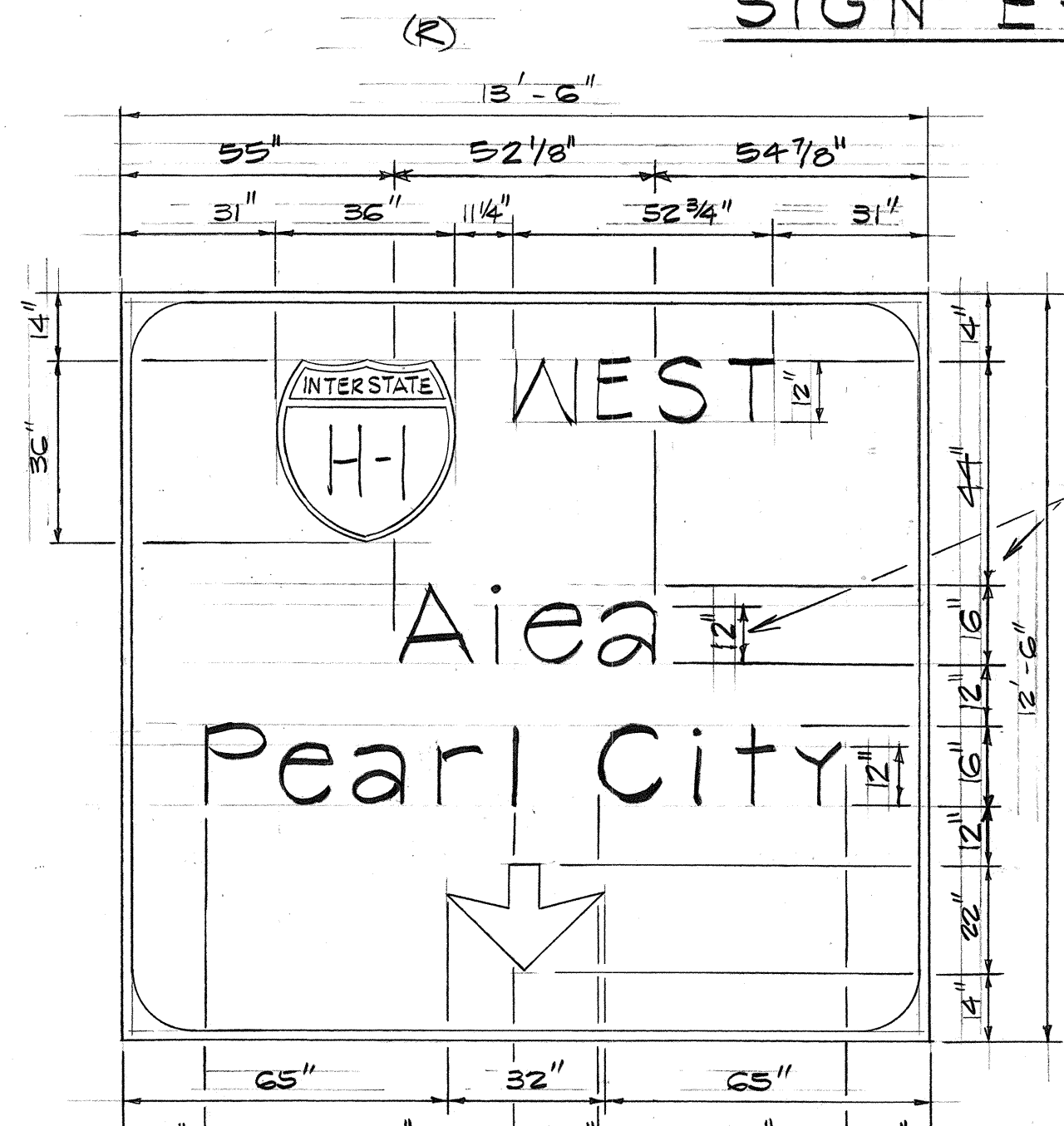
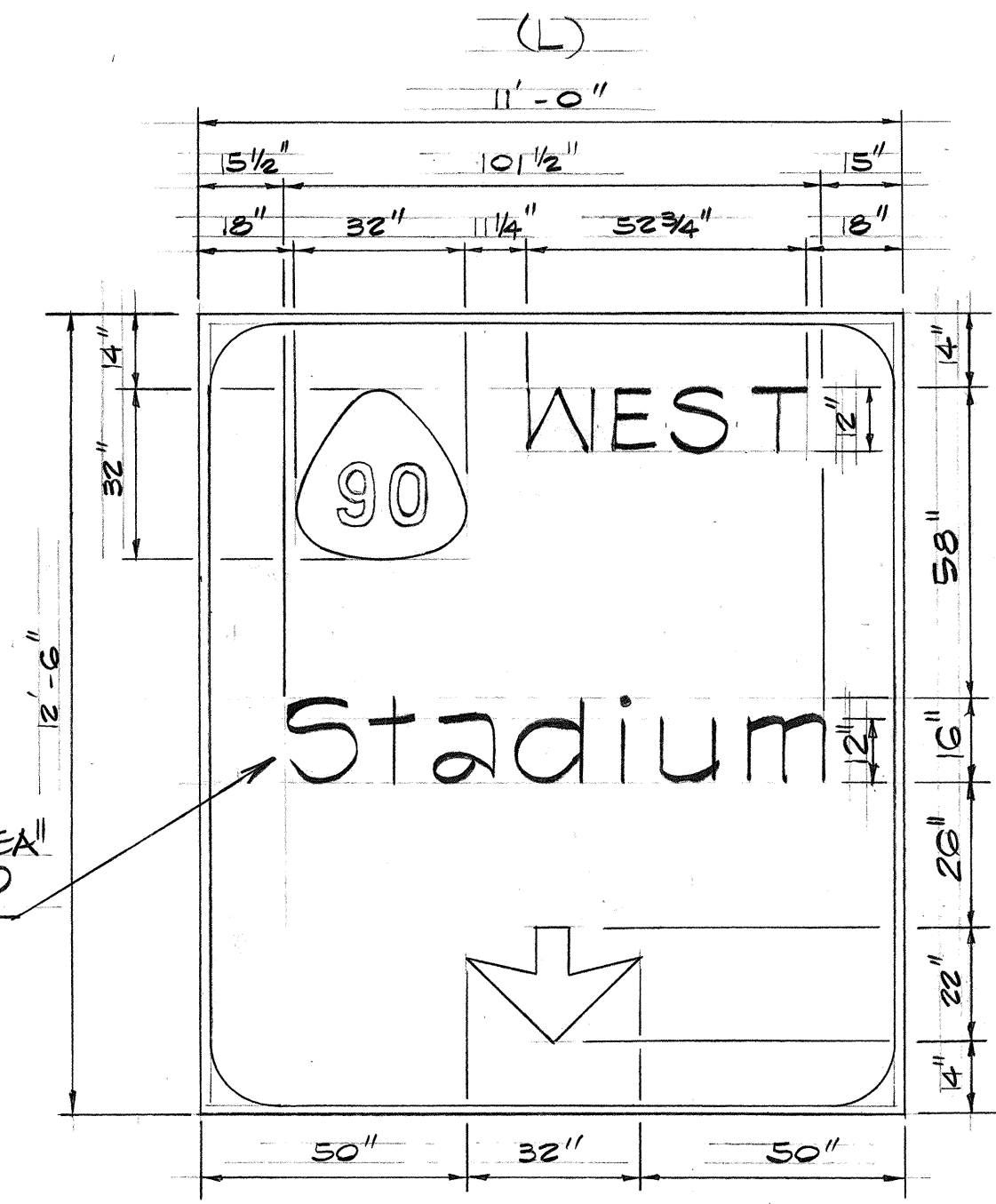
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

5/19/76	ADDED PANEL OVERLAY ON SIGN E-9.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CCO #55	
PANEL LAYOUT	
PEARL HARBOR INTERCHANGE F.A.I. Proj. No. I-HI-(73)15	
Scale: As Shown	Date: DEC. 7, 1973
SHEET NO. 6 OF 26 SHEETS	

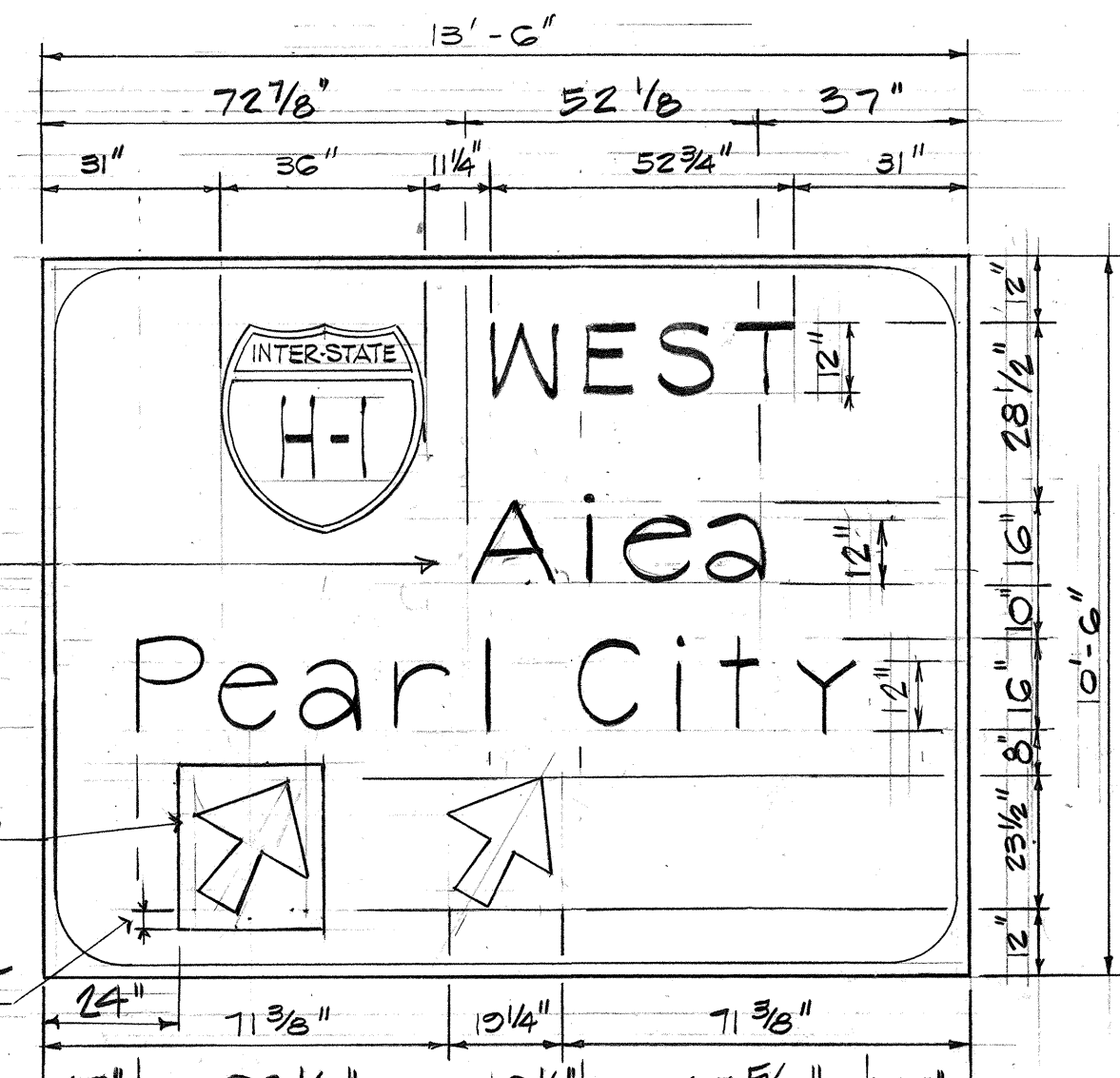
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73):15	1974	114	309



SIGN E-4 PANEL OVERLAY



SIGN E-3 & E-10



SIGN E-15

ADDED MESSAGE AND REVISED SPACING

ADDED MESSAGE AND REVISED SPACING

ADDED MESSAGE

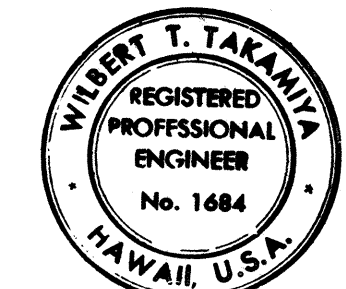
PANEL OVERLAY

3" MIN. ALL AROUND

5/13/76 DELETED "AIEA" SIGN E-3. ADDED MESSAGE A REVISED SPACING SIGNS E-4, E-3, E-10 & E-15.

DATE	REVISION

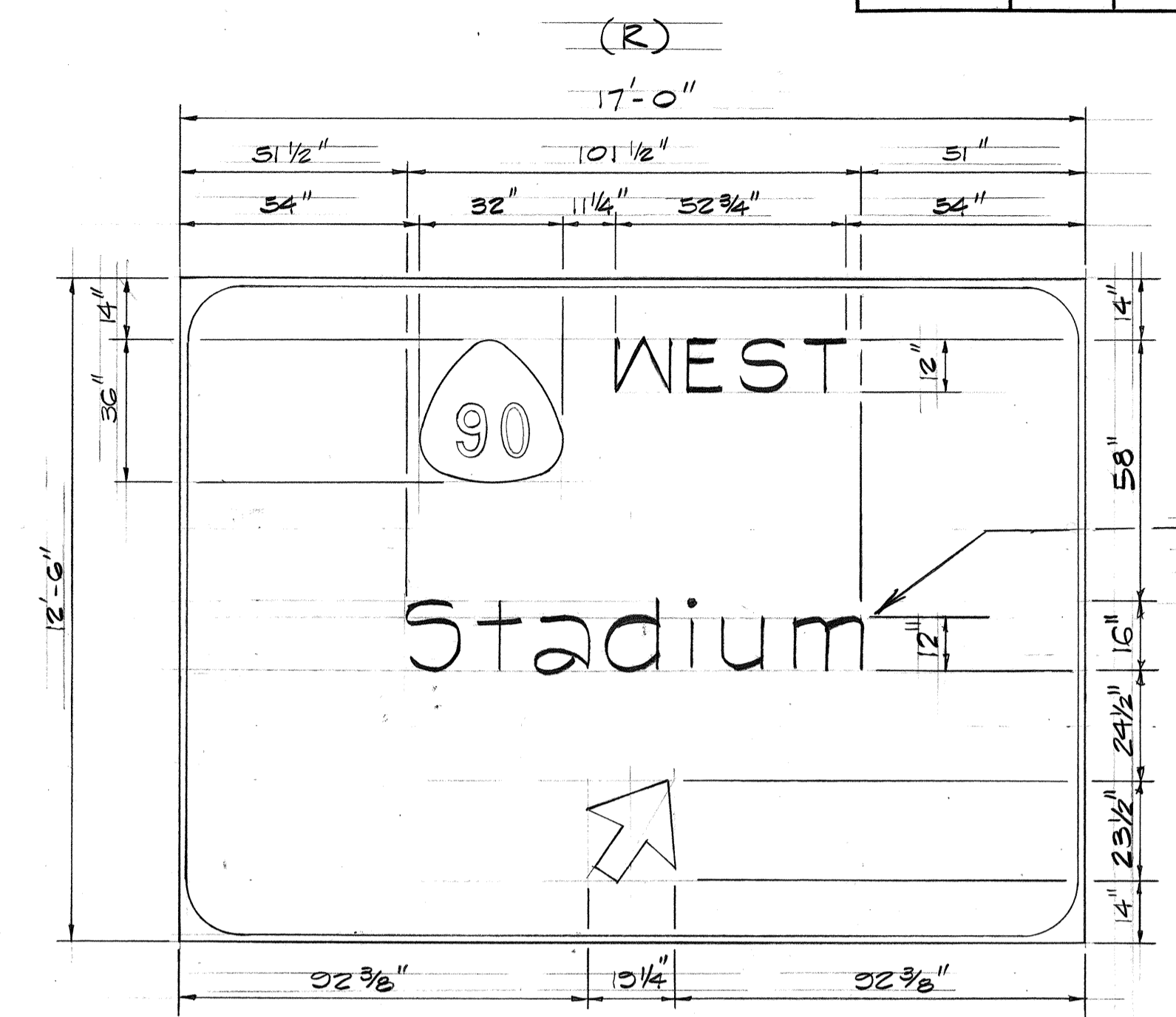
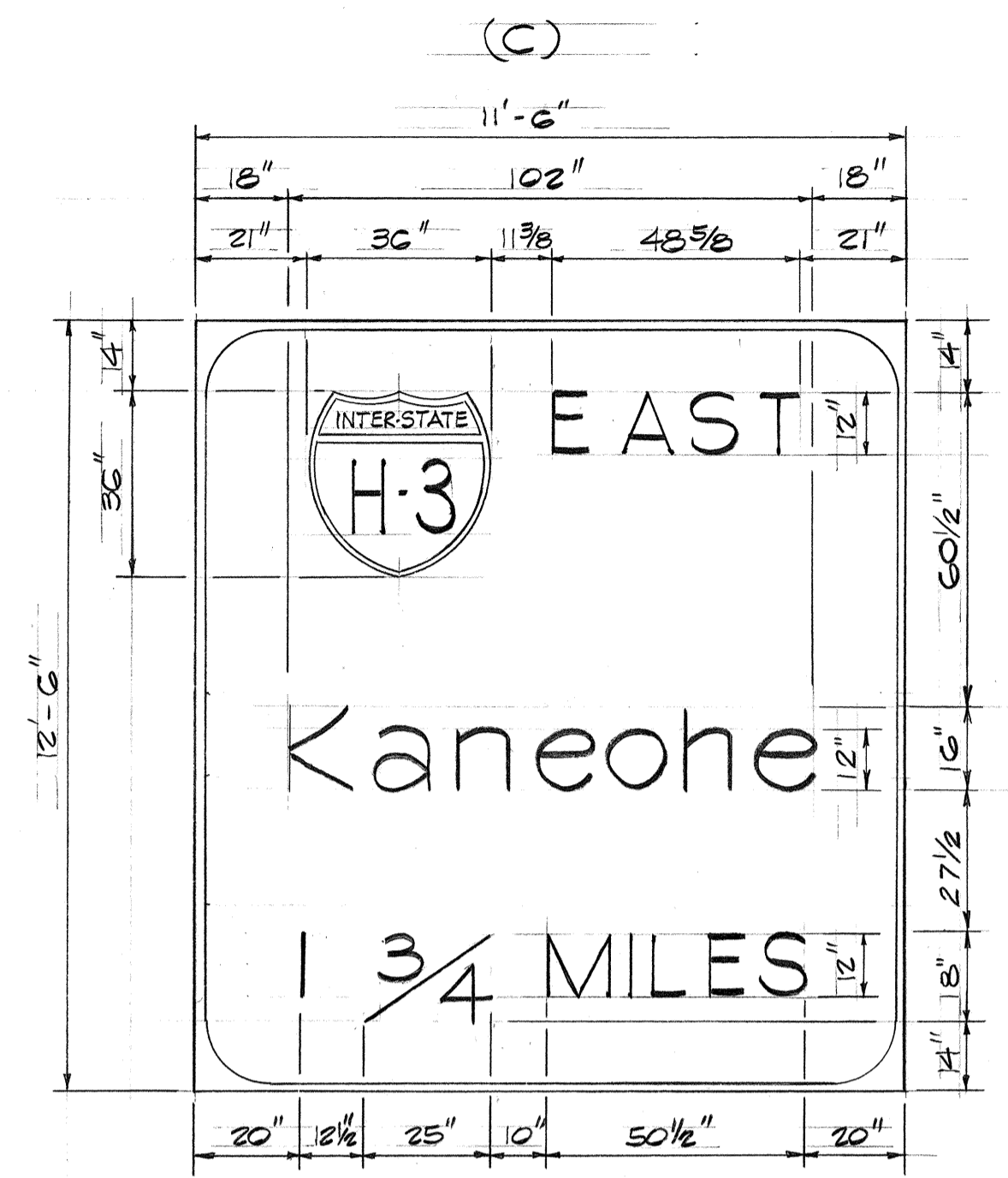
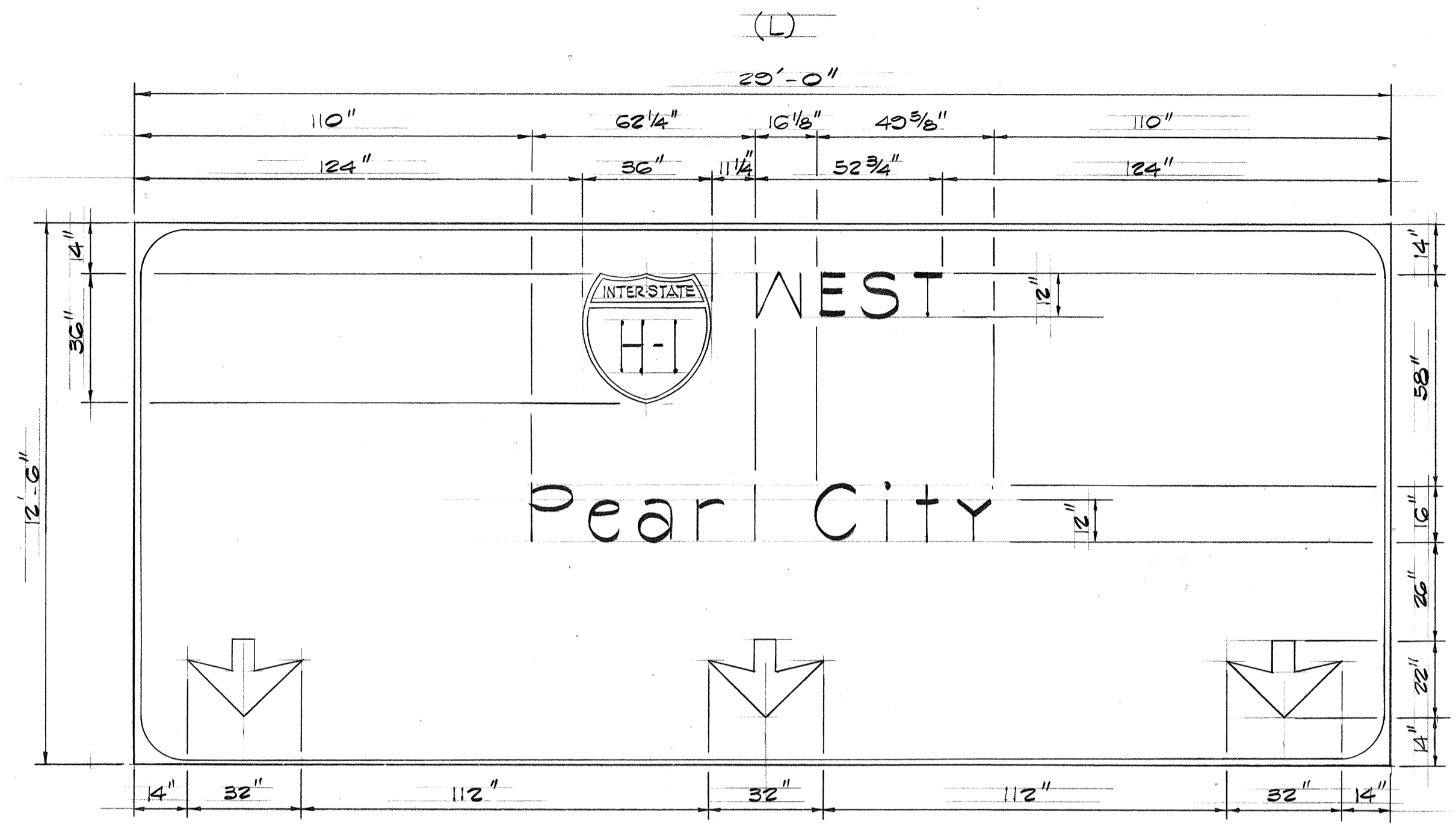
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
CCO #55  
PANEL LAYOUT  
PEARL HARBOR INTERCHANGE  
F.A.I. Proj. No. I-HI-1(73):15  
Scale: As Shown Date: DEC 7, 1973  
SHEET No. 7 OF 26 SHEETS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

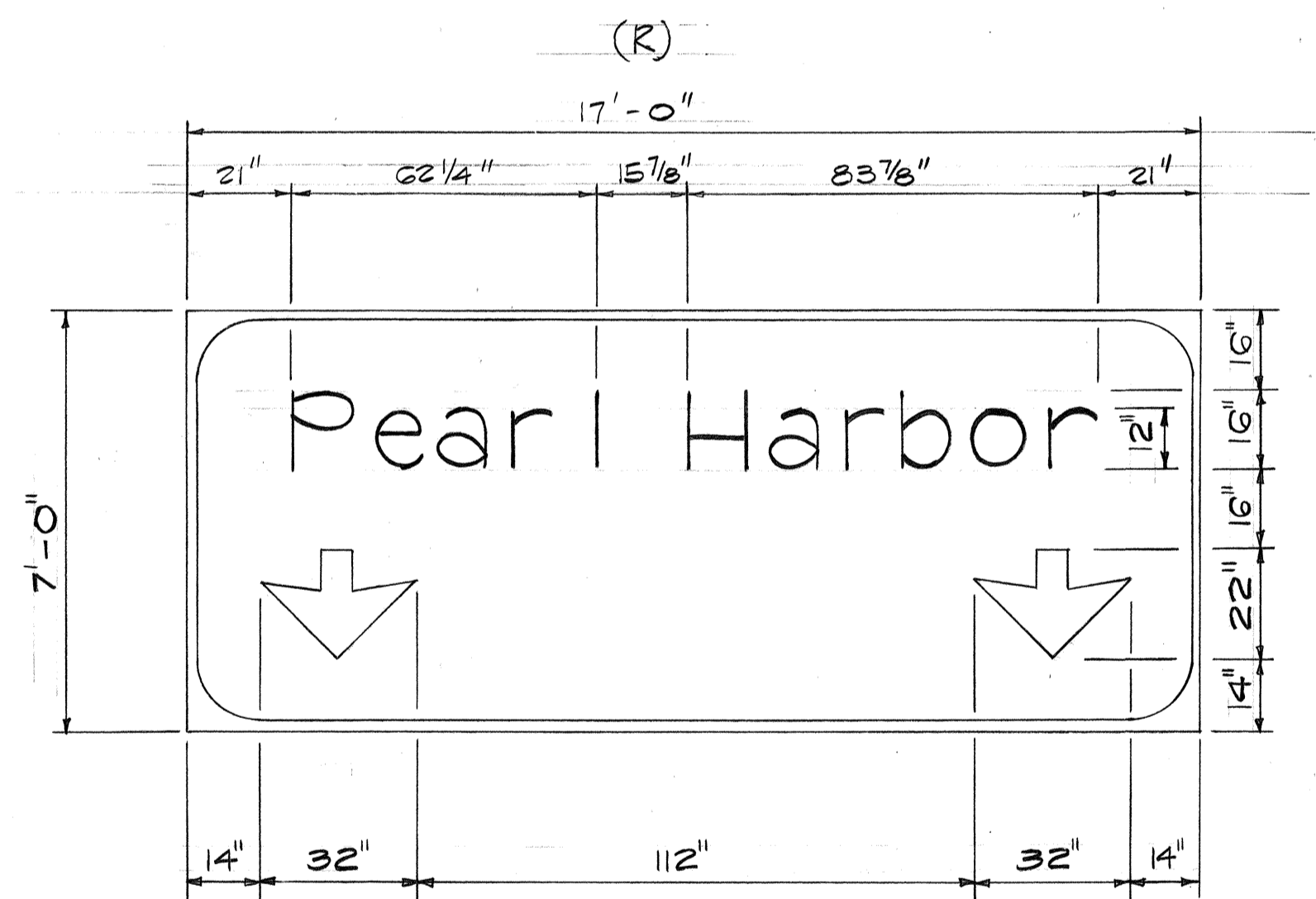
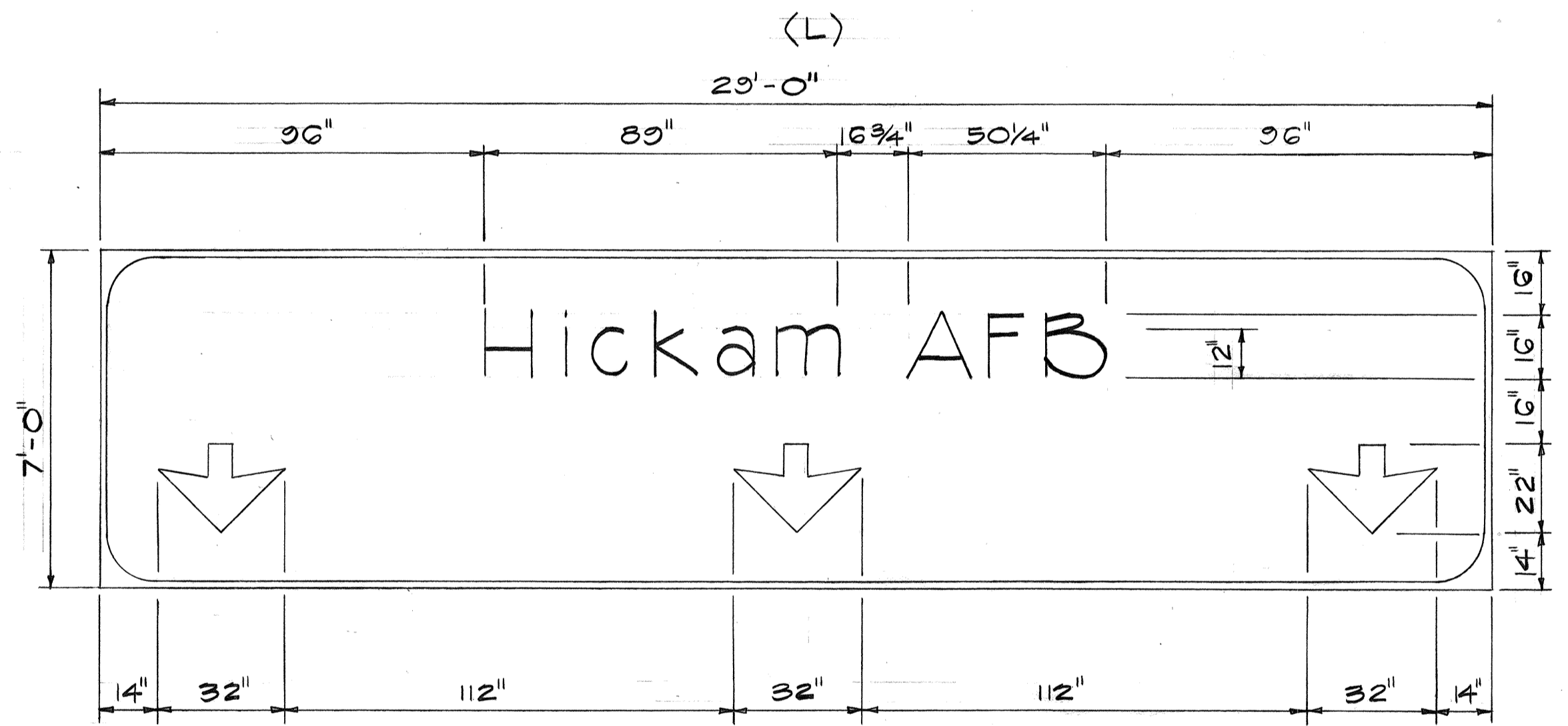
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(73)-15	1974	115	369



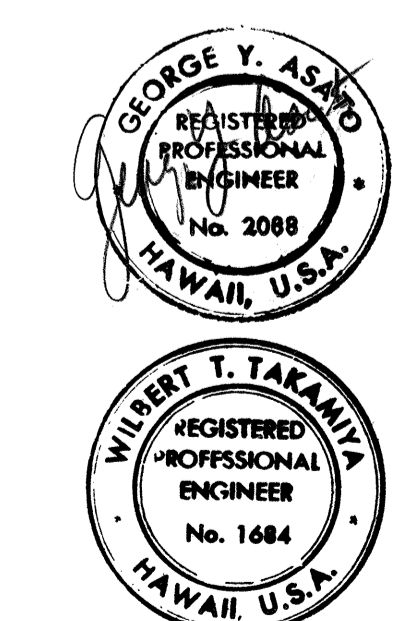
DELETED AREA AND REVISED SPACING

SIGN E-7



SIGN E-11

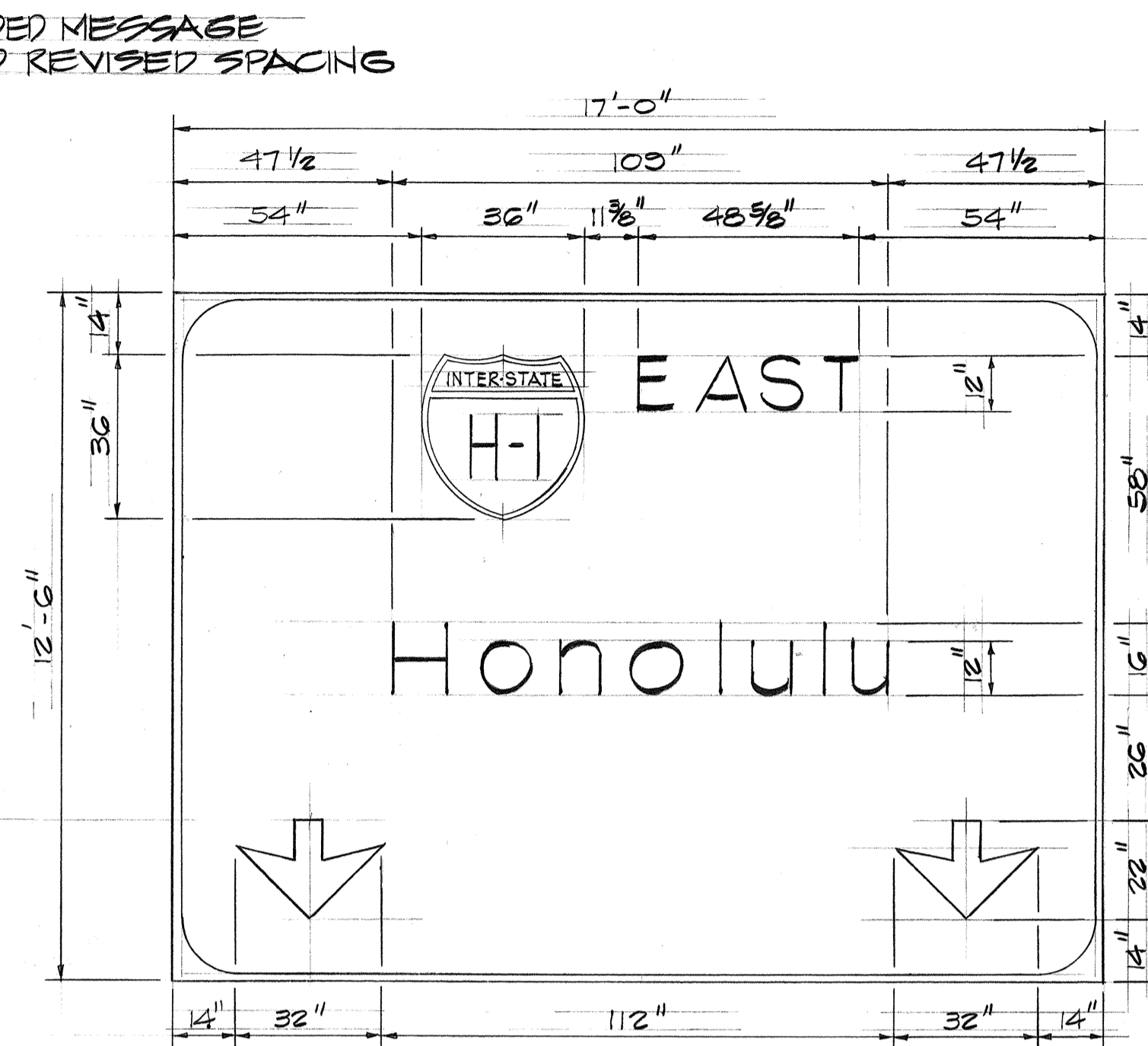
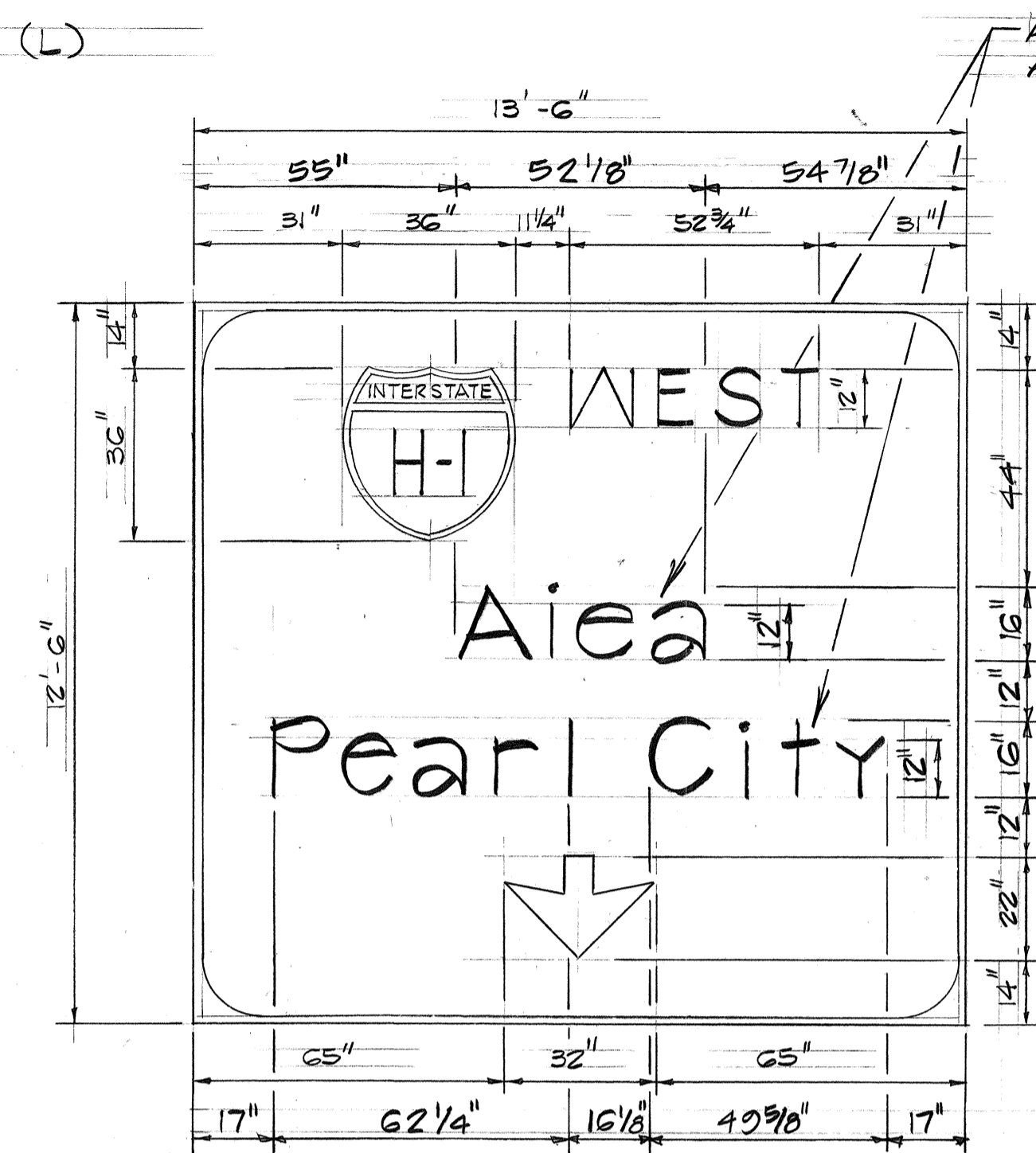
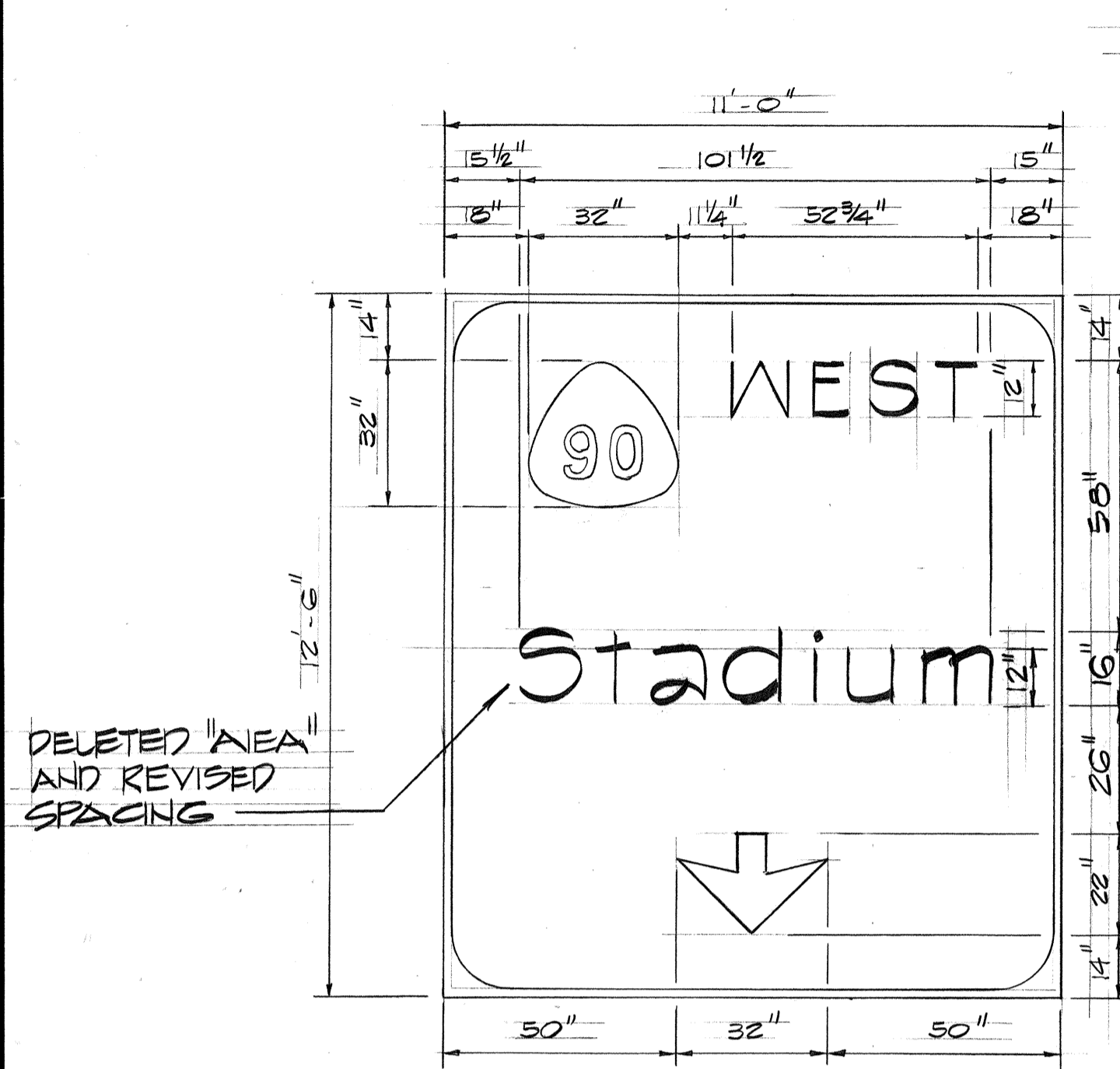
ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



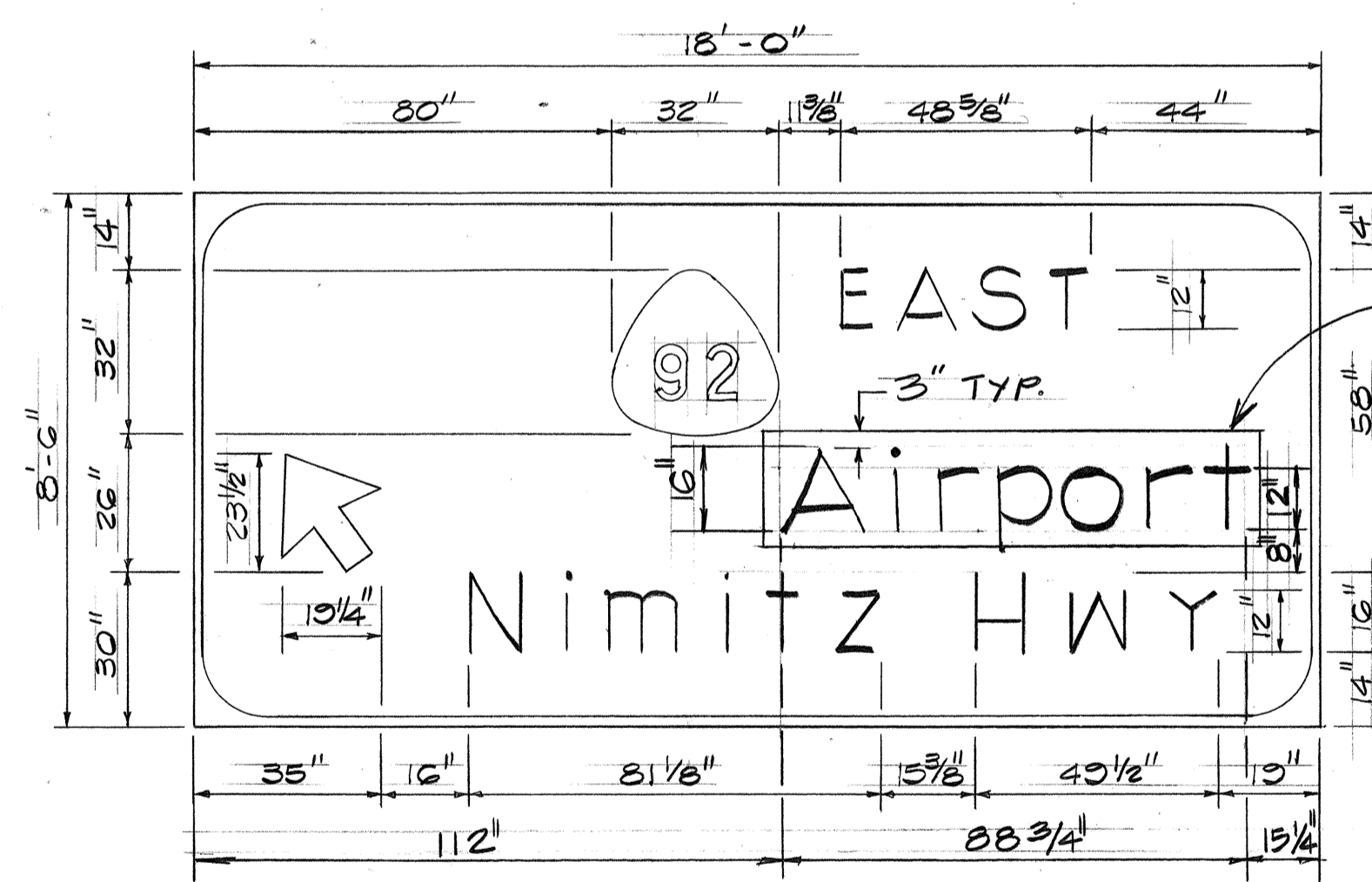
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

5/19/76	REVISED "STADIUM" SPACING ON SIGN E-7.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CCO #55	
PANEL LAYOUT	
PEARL HARBOR INTERCHANGE F.A.I. Proj. No. I-HI-(73)-15	
Scale: As Shown	Date: DEC. 7, 1973
SHEET NO. 8 OF 26 SHEETS	

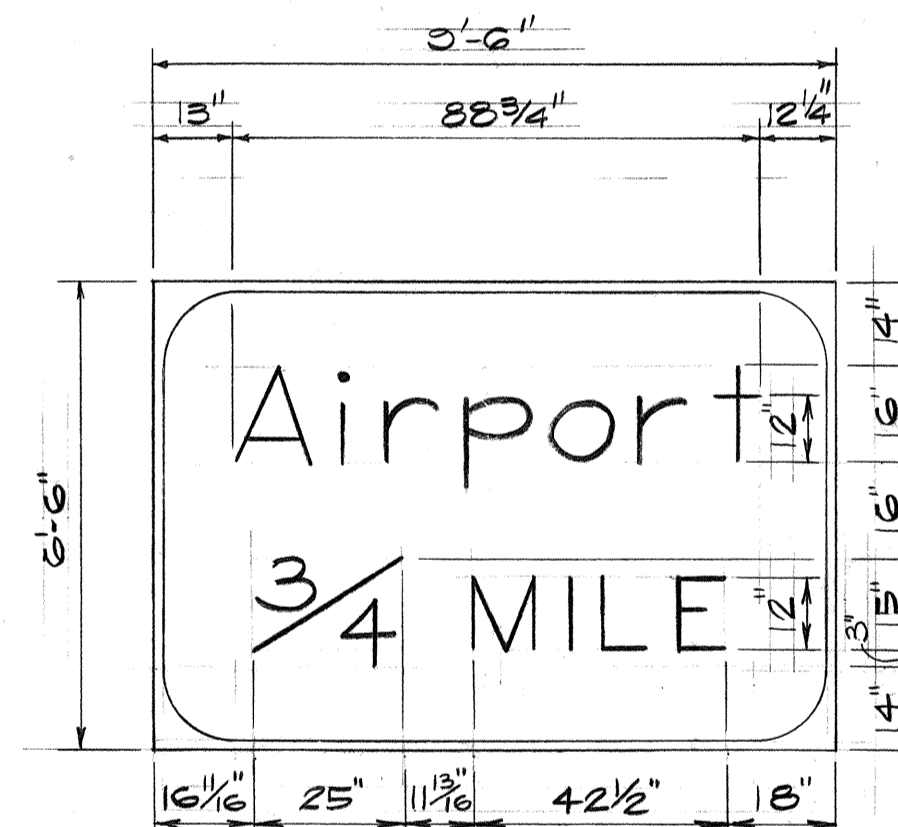
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-I(73)-15	1974	116	369



SIGN E-12

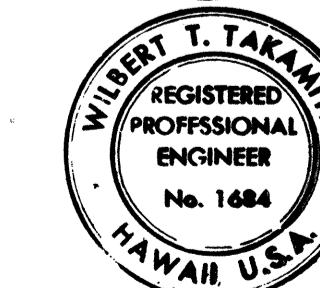


SIGN E-14



SIGN E-16

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

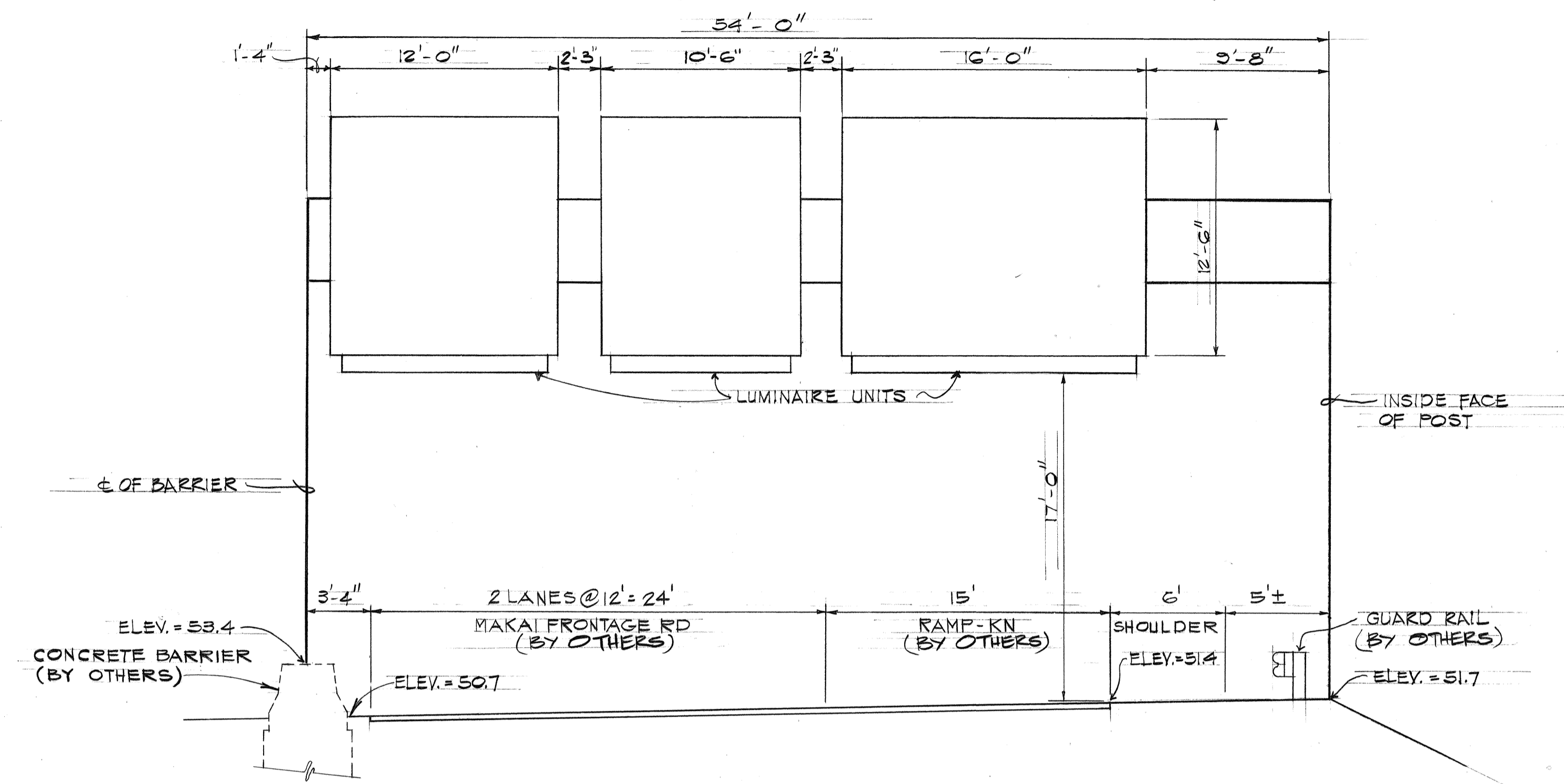


Willbert T. Takamiya  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

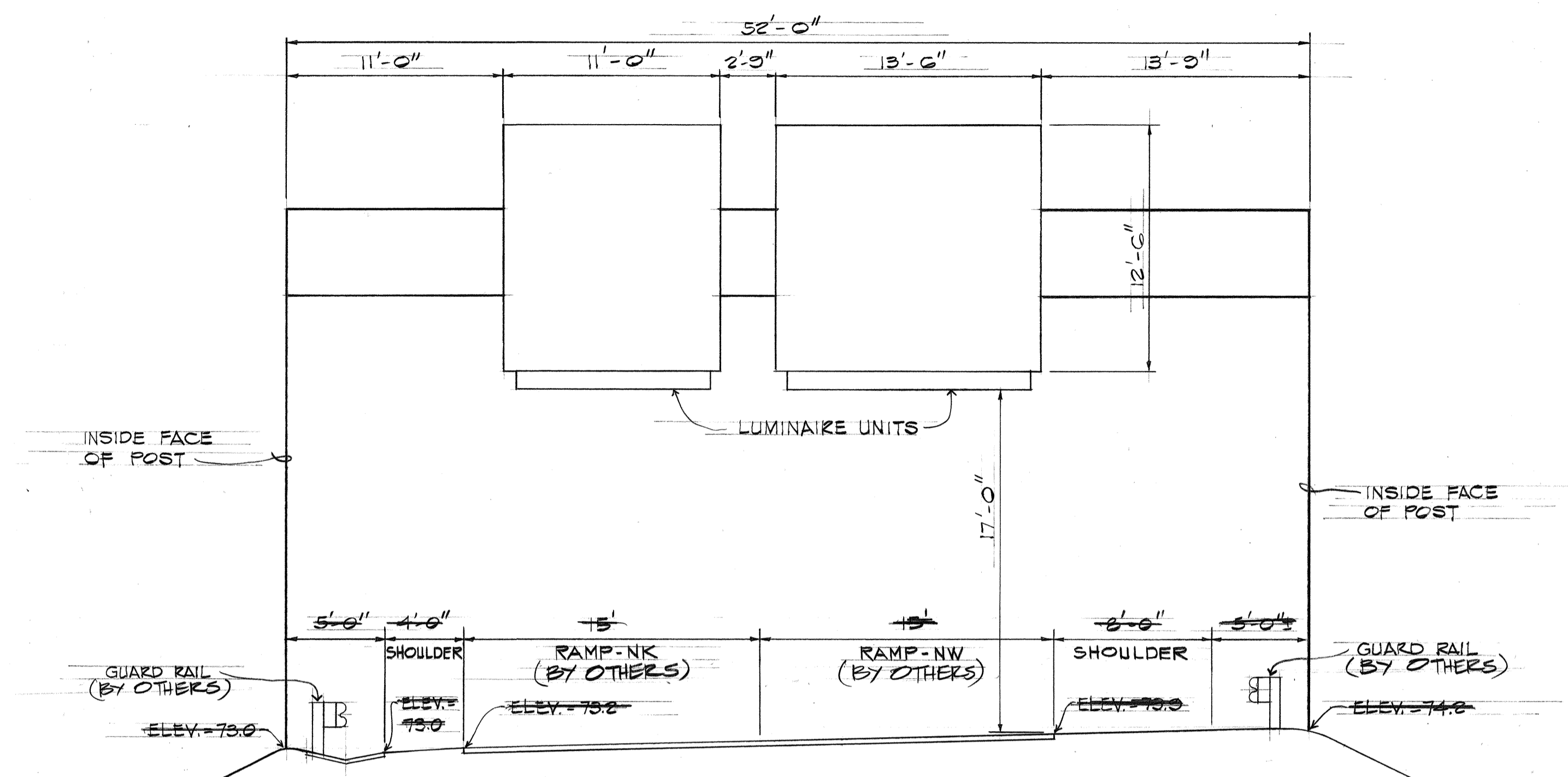
DATE	REVISION
5/13/76	ADDED PANEL OVERLAY ON SIGN E-14. ADDED 'AIEA' ON SIGN E-12. DELETED 'AIEA' ON SIGN E-12. REVISED 'STADIUM' AND 'PEARL CITY' SPACING ON SIGN E-12.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CCO #55	
<u>PANEL LAYOUT</u>	
PEARL HARBOR INTERCHANGE F.A.I. Proj. NO. I-H-I(73)-15	
Scale: As Shown	Date: DEC. 7, 1973
SHEET NO. 9 OF 26 SHEETS	

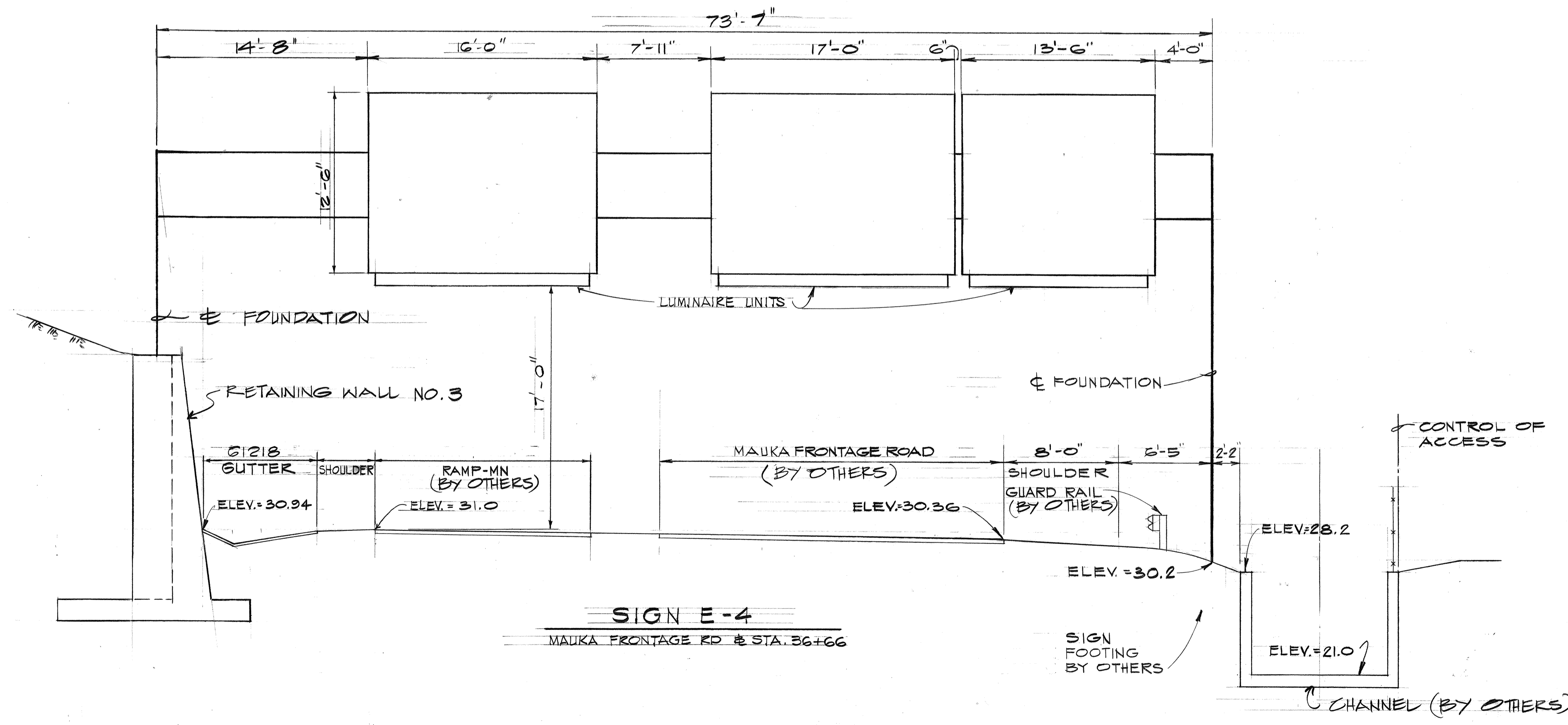
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)-15	1974	117	369



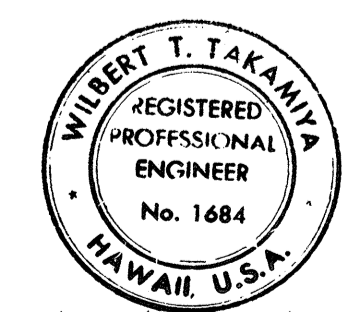
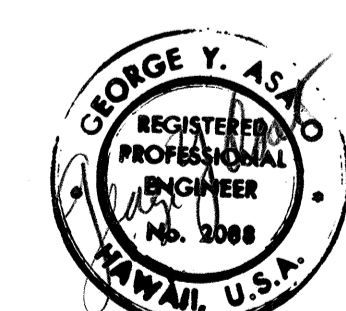
**SIGN E-2**  
MAKAI FRONTAGE RD. @ STA. 6+60



**SIGN E-3**  
RAMP NW @ STA. 31+12  
32+65  
(FIELD DIRECTIVE 5-7-76)



**SIGN E-4**  
MAUKA FRONTAGE RD @ STA. 36+66



WILBERT T. TAKAMIYA  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
FIELD DIRECTIVE 5-7-76

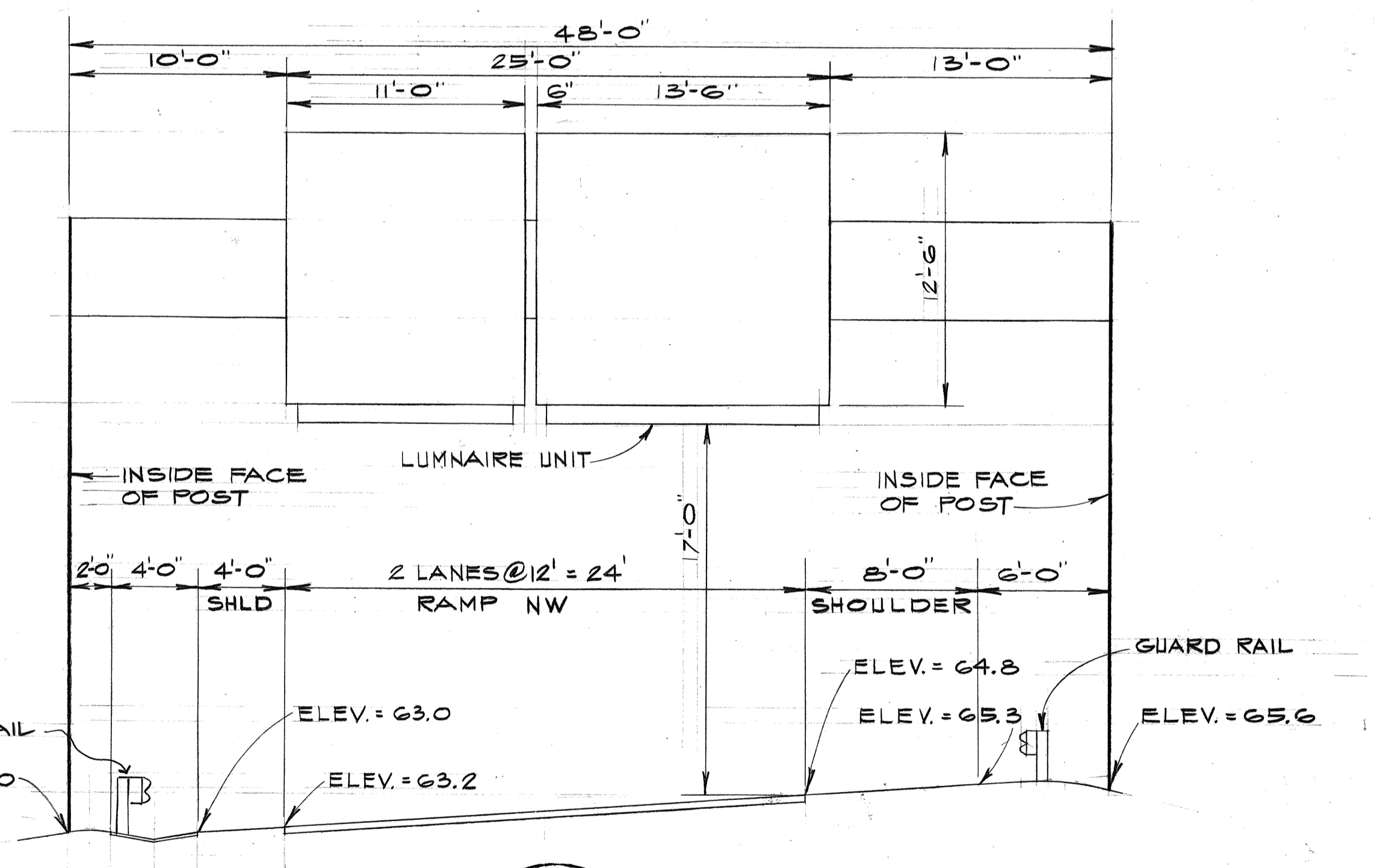
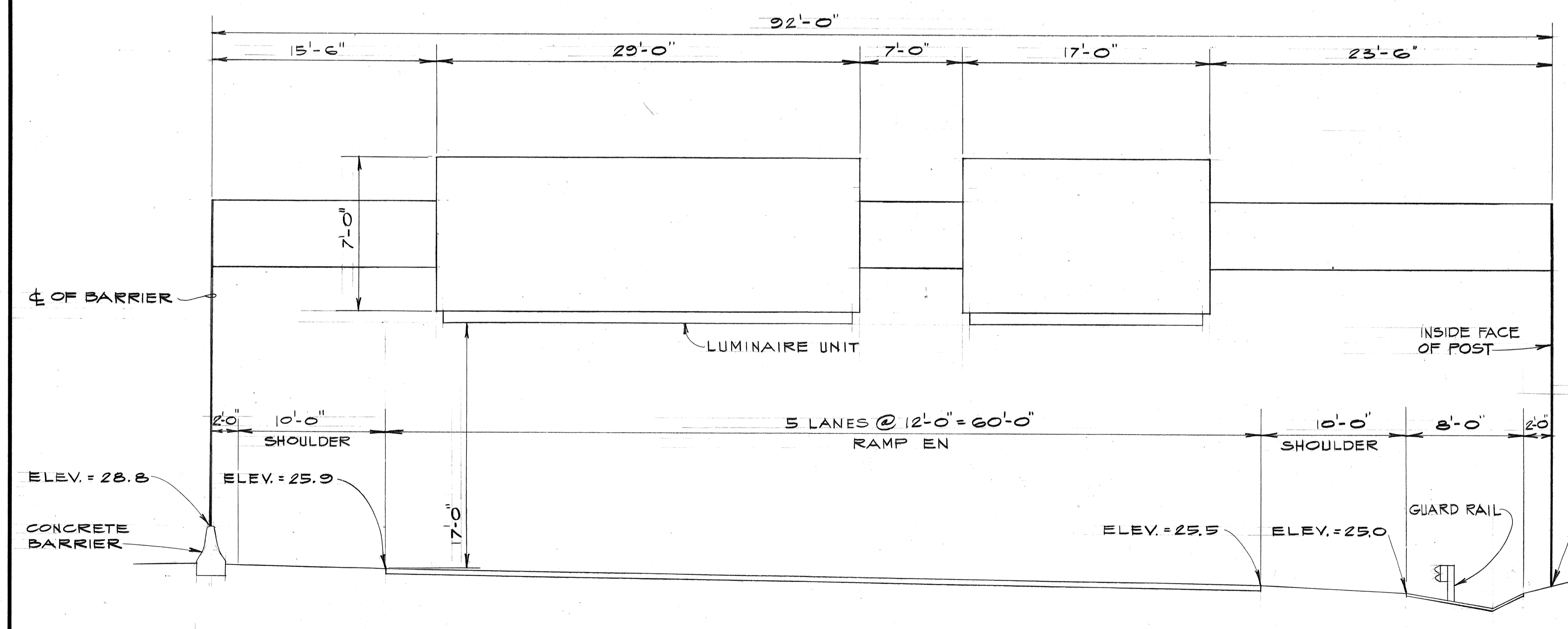
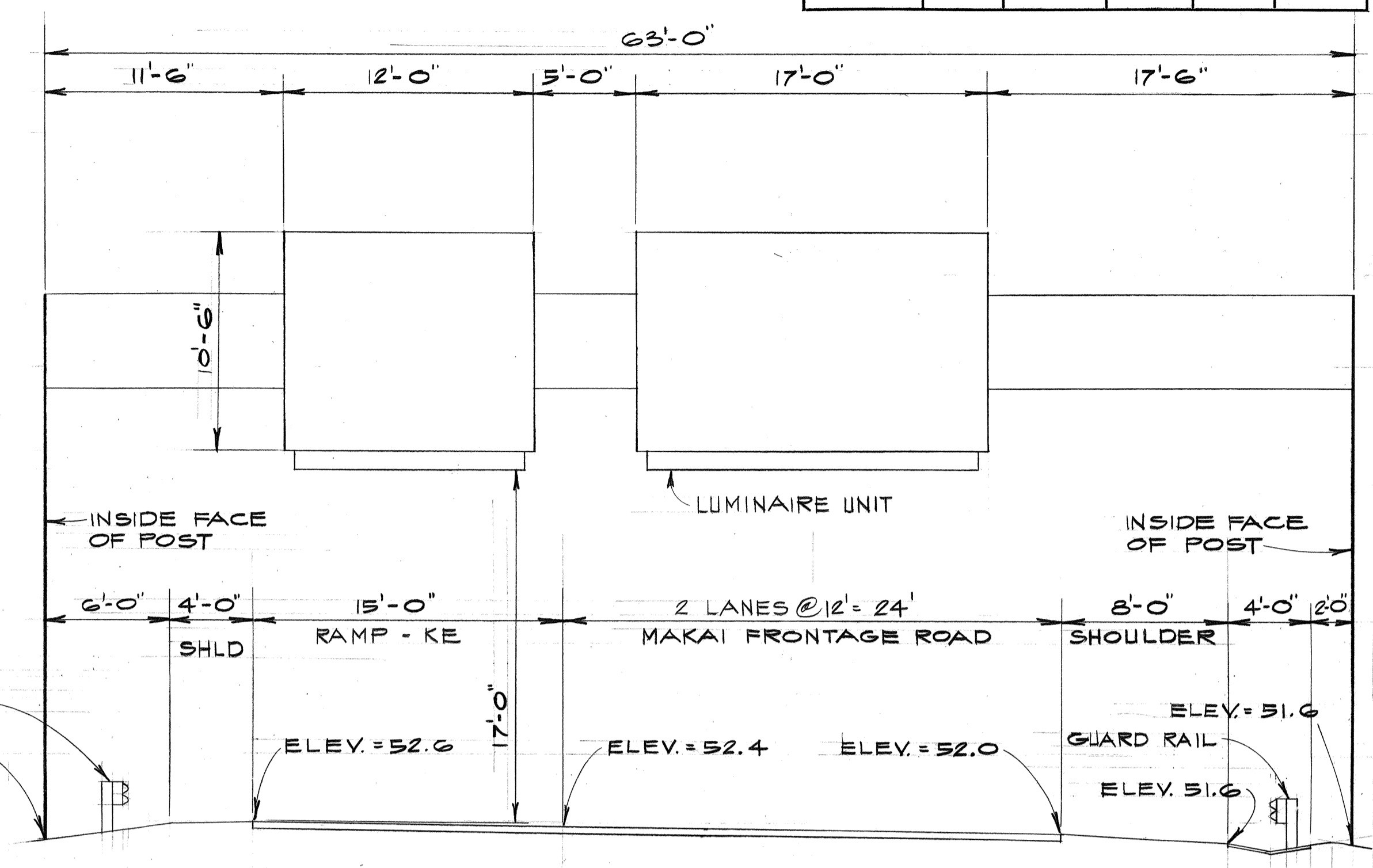
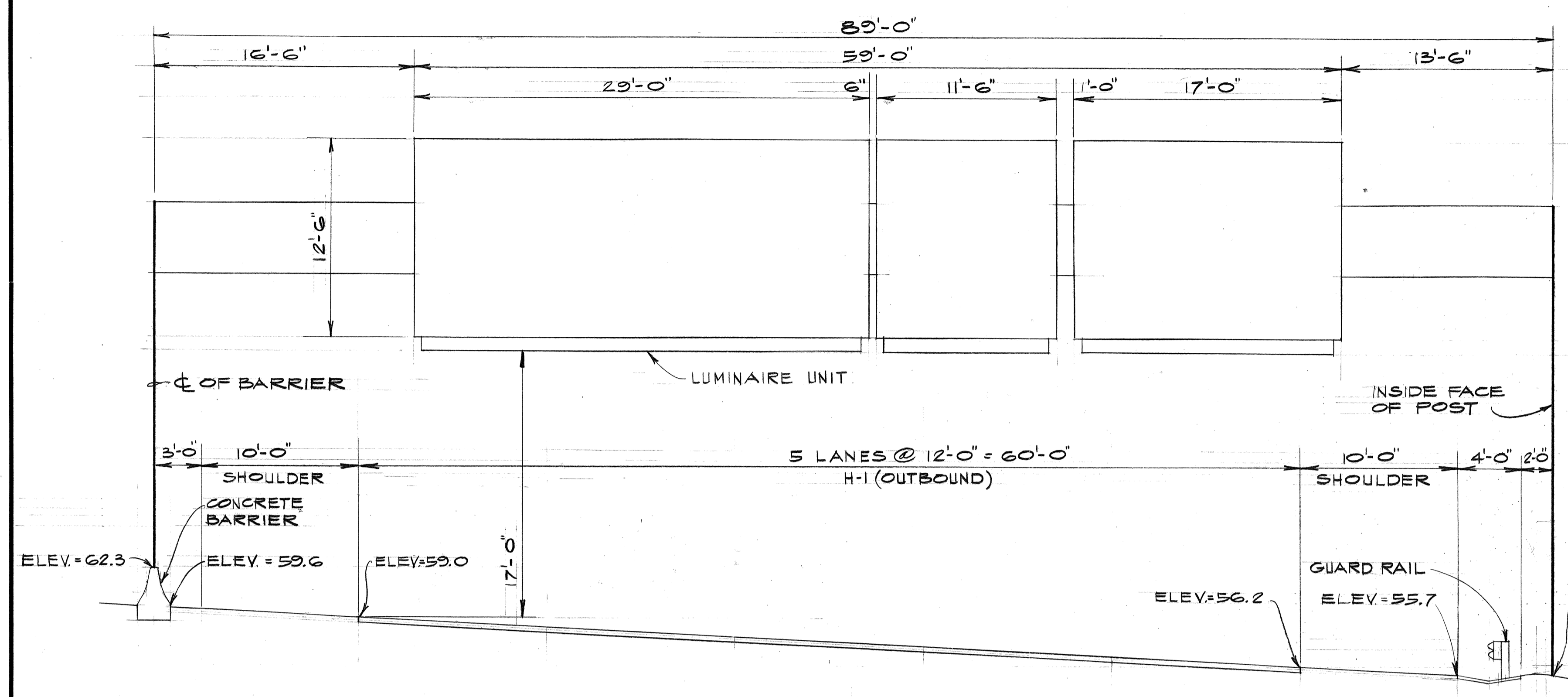
**FRAME LAYOUT**

PEARL HARBOR INTERCHANGE  
F.A.I. Proj. No. I-HI-1(73)-15

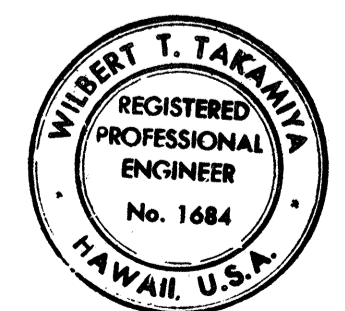
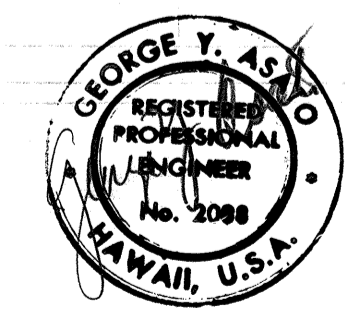
Scale: As Shown Date: DEC. 7, 1973  
SHEET NO. 10 OF 26 SHEETS

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.	I-HI-1(73):15	1974	118	369



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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**FRAME LAYOUT**

PEARL HARBOR INTERCHANGE  
F.A.I. Proj. No. I-HI-1(73):15

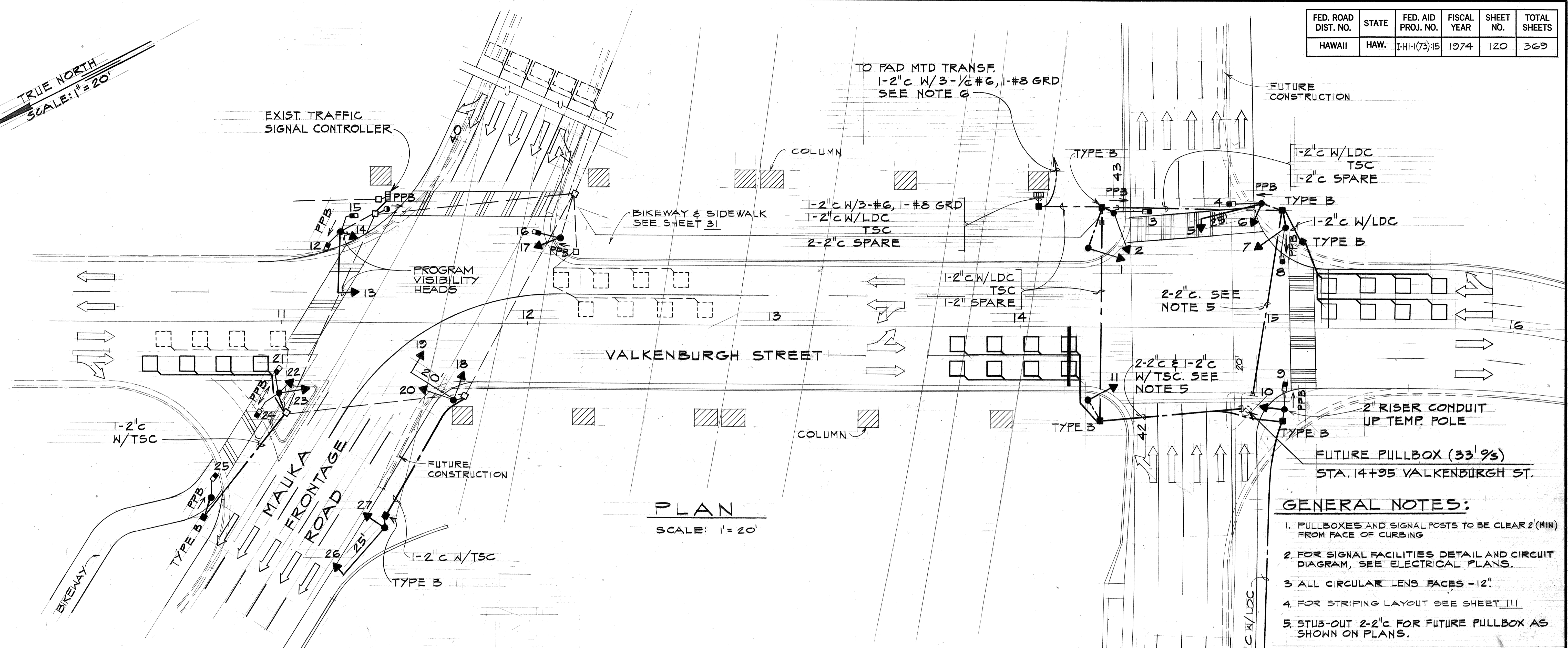
Scale: As Shown Date: DEC. 7, 1973

SHEET NO. 11 OF 26 SHEETS



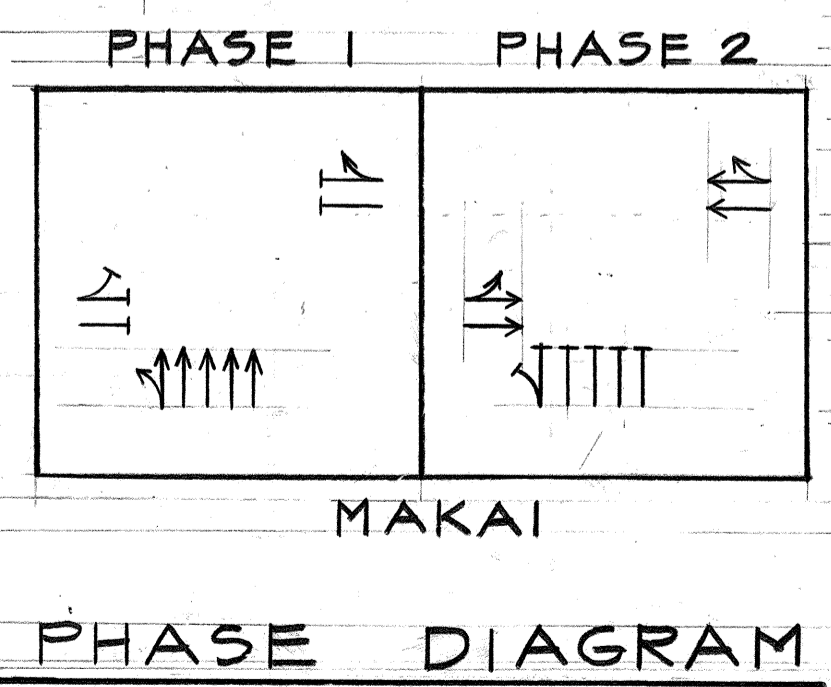
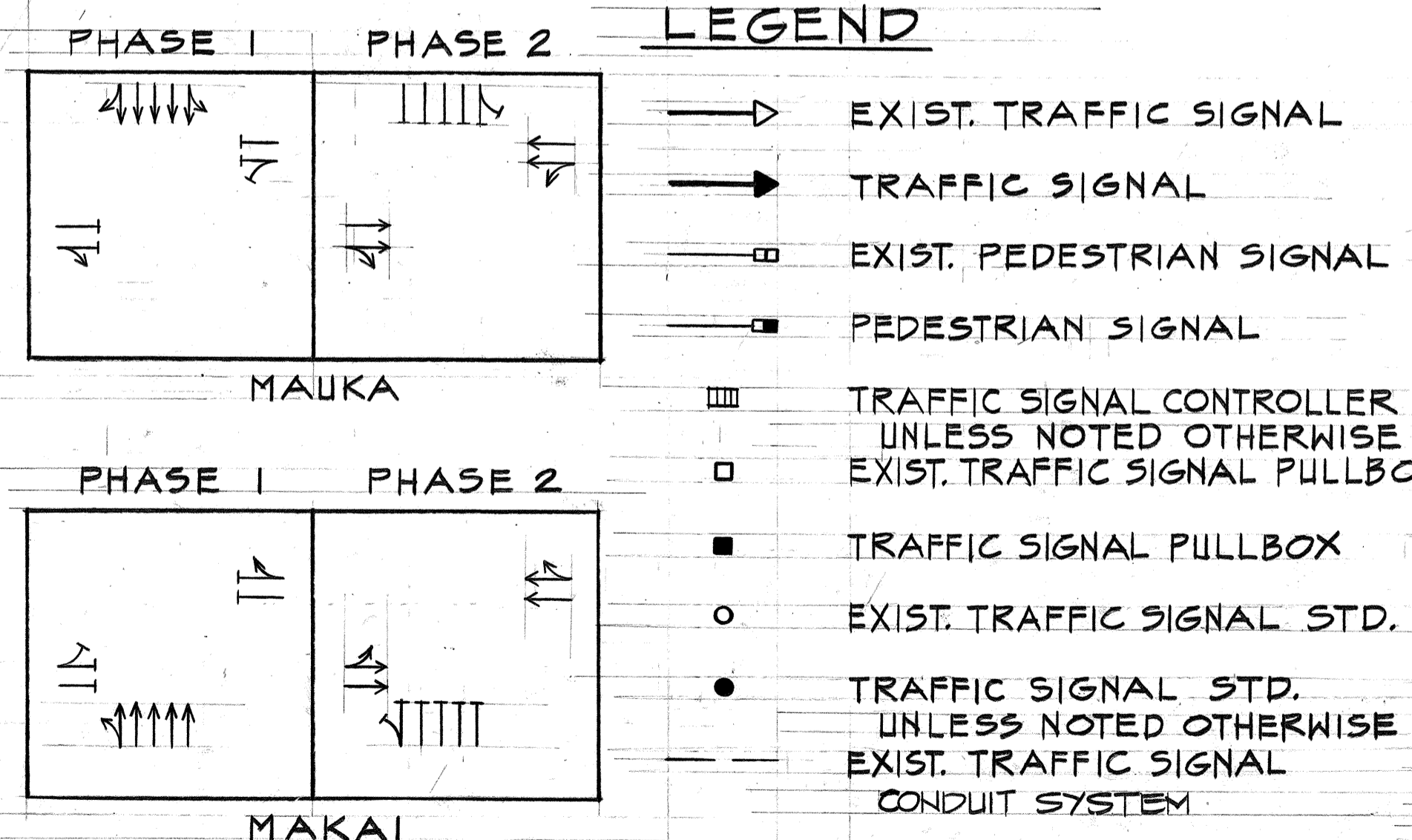
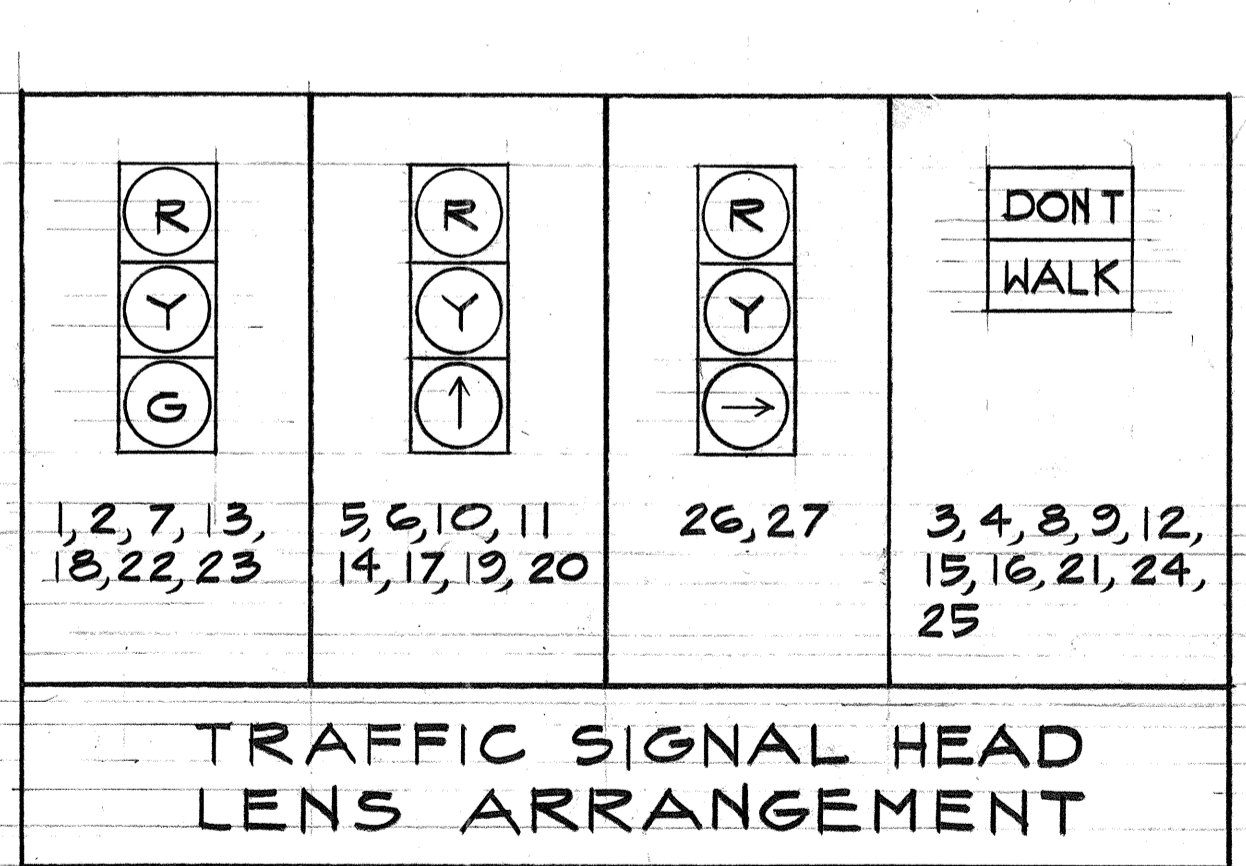
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73):15	1974	120	369

TRUE NORTH  
SCALE: 1" = 20'



PLAN  
SCALE: 1" = 20'

- GENERAL NOTES:**
- PULLBOXES AND SIGNAL POSTS TO BE CLEAR 2'(MIN) FROM FACE OF CURBING
  - FOR SIGNAL FACILITIES DETAIL AND CIRCUIT DIAGRAM, SEE ELECTRICAL PLANS.
  - ALL CIRCULAR LENS FACES - 12"
  - FOR STRIPING LAYOUT SEE SHEET III
  - STUB-OUT 2-2" C FOR FUTURE PULLBOX AS SHOWN ON PLANS.
  - SEE SHEET E-11 FOR PAD MOUNTED TRANSFORMER LOCATION AND ONE LINE DIAGRAM.



DATE	REVISION
1/26/77	REVISE LOCATION OF CONDUIT ROW ON MAKAI F.R., SIGNAL HEADS & POLES AT MAKAI F.R. INDICATED AS NEW
10/12/76	REVISE MAUKA & MAKAI FRONTAGE RD TO TEMP. 5-LANE SECTION AND REVISE THE TRAFFIC SIGNAL SYSTEM
5/1/75	REVISE STRIPING & WHEEL CHAIR RAMP
4/26/74	INDICATE ARM LENGTH DIMENSION



WILBERT T. TAKAMIYA  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC SIGNAL SYSTEM**  
MAUKA FRONTAGE ROAD / MAKAI FRONTAGE ROAD  
AT  
VALKENBURGH STREET  
PEARL HARBOR INTERCHANGE  
F.A.I. PROJ. NO. I-HI-1(73):15

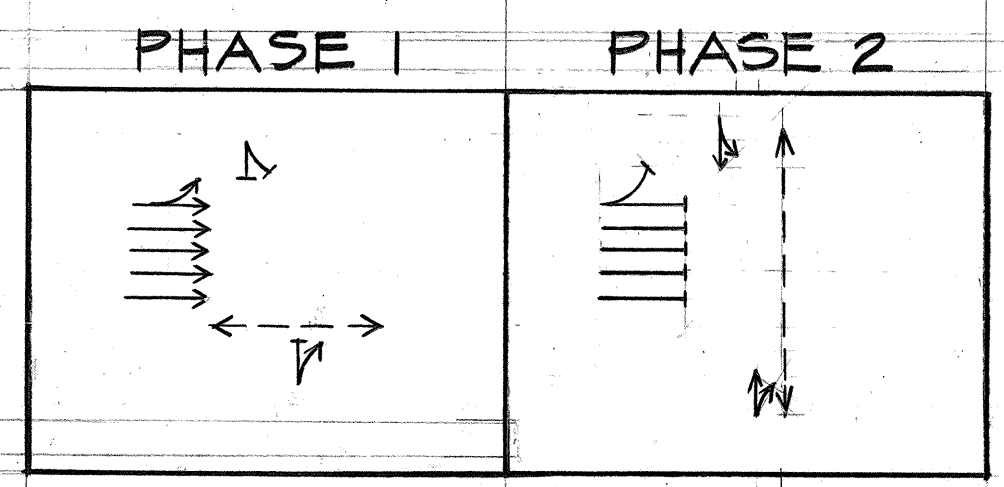
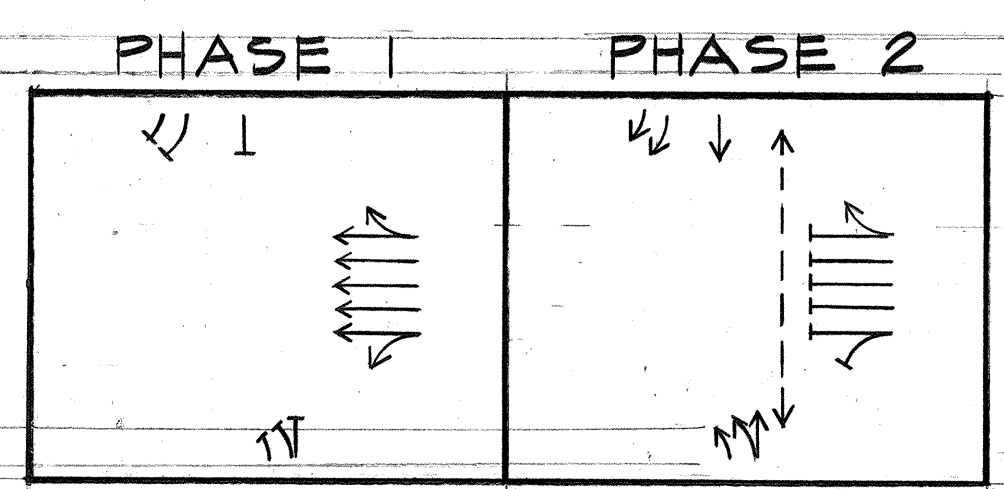
Scale: As Shown Date: DEC. 7, 1973  
SHEET No. 13 OF 26 SHEETS

DATE	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73):15	1974	C.O.120 S-1	369

1, 5, 9, 10, 11, 13, 14, 16, 20, 27	4, 8, 19, 21, 22	23, 24	2, 3, 6, 7, 12, 15, 17, 18, 25, 26

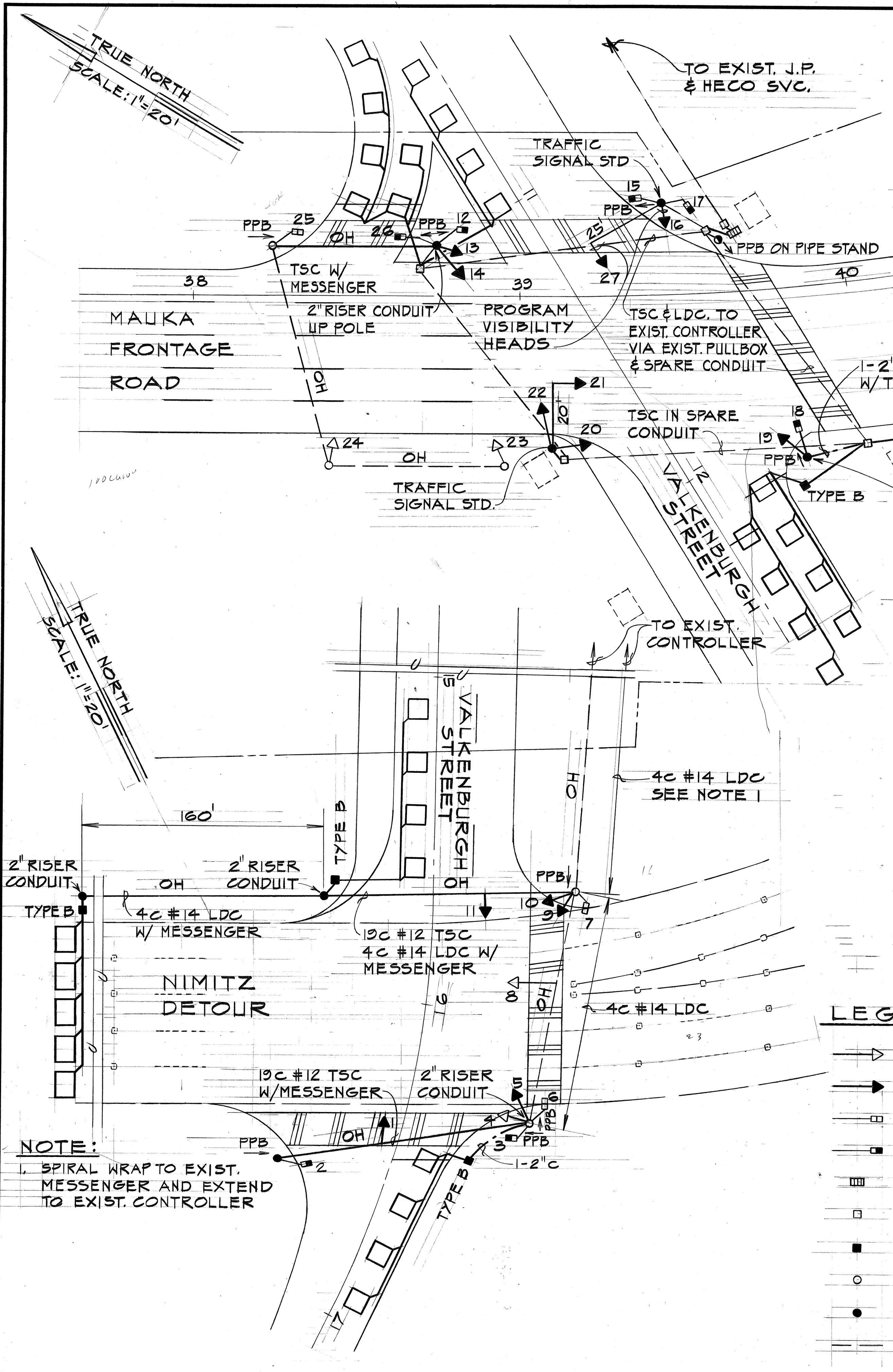
**SIGNAL INDICATIONS**



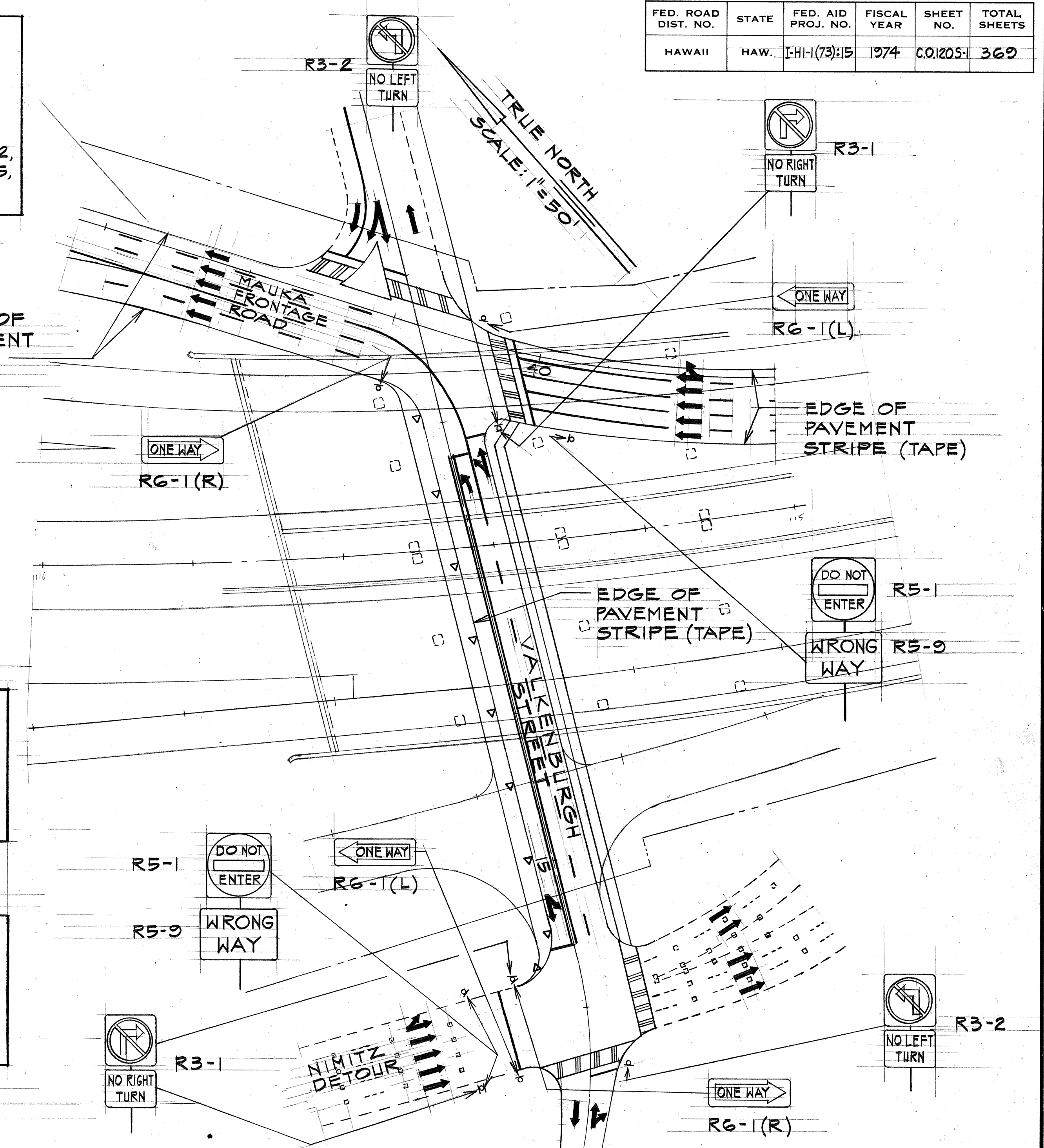
**PHASE DIAGRAM**

**LEGEND:**

- EXIST. TRAFFIC SIGNAL
- TRAFFIC SIGNAL
- EXIST. PEDESTRIAN SIGNAL
- PEDESTRIAN SIGNAL
- EXIST. TRAFFIC SIGNAL CONTROLLER
- EXIST. TRAFFIC SIGNAL PULLBOX
- TRAFFIC SIGNAL PULLBOX
- EXIST. TRAFFIC SIGNAL POLE
- TEMP. TRAFFIC SIGNAL POLE UNLESS NOTED OTHERWISE
- EXIST. TRAFFIC SIGNAL CONDUIT SYSTEM
- TRAFFIC SIGNAL CONDUIT SYSTEM
- EXIST. TEMP. OVERHEAD TRAFFIC SIGNAL CABLE
- TEMP. OVERHEAD TRAFFIC SIGNAL CABLES
- PEDESTRIAN PUSHBUTTON
- PIPE STAND FOR PPB
- TRAFFIC DELINATORS
- TRAFFIC SIGNAL CABLE
- LDC LOOP DETECTOR CABLE



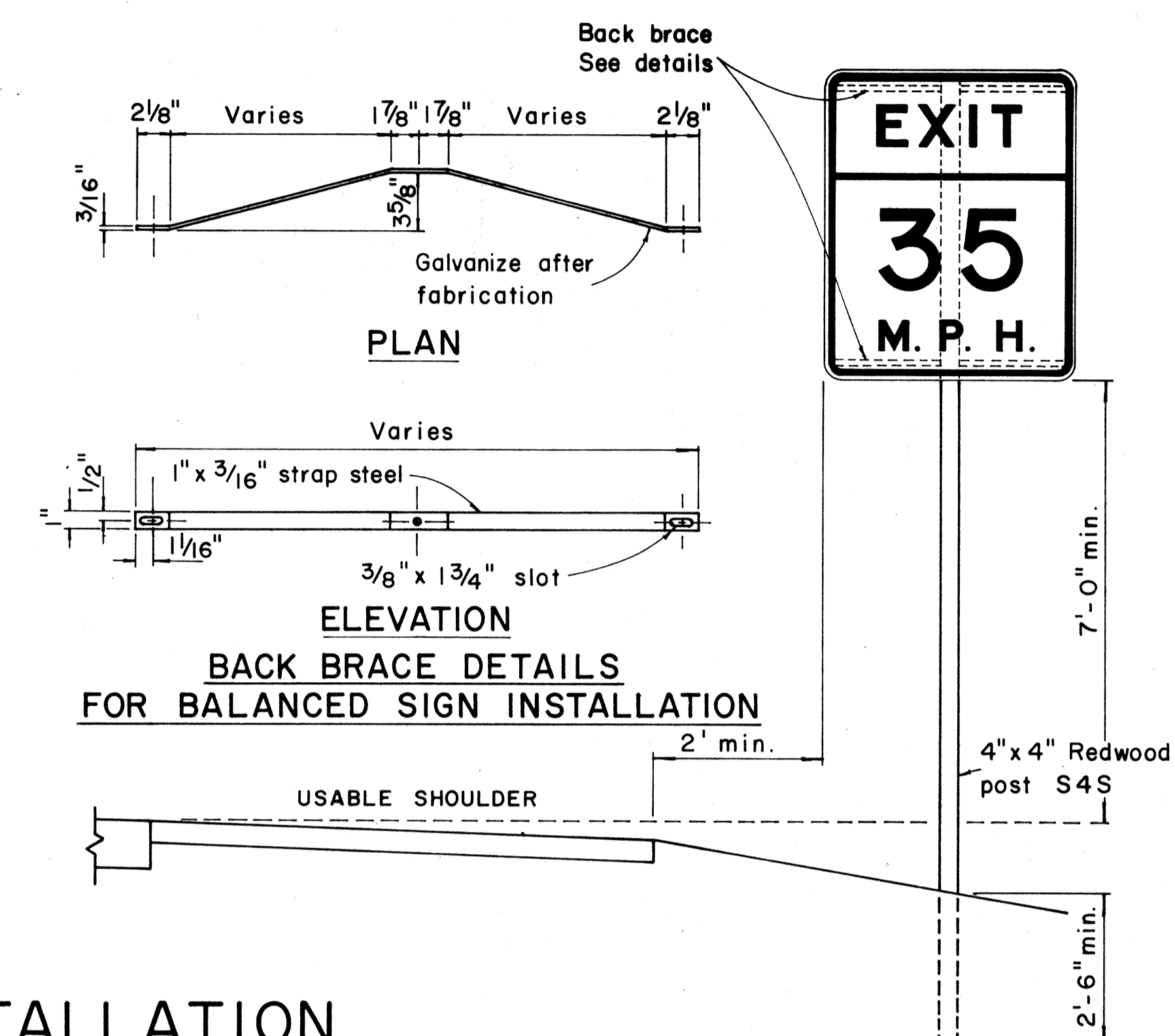
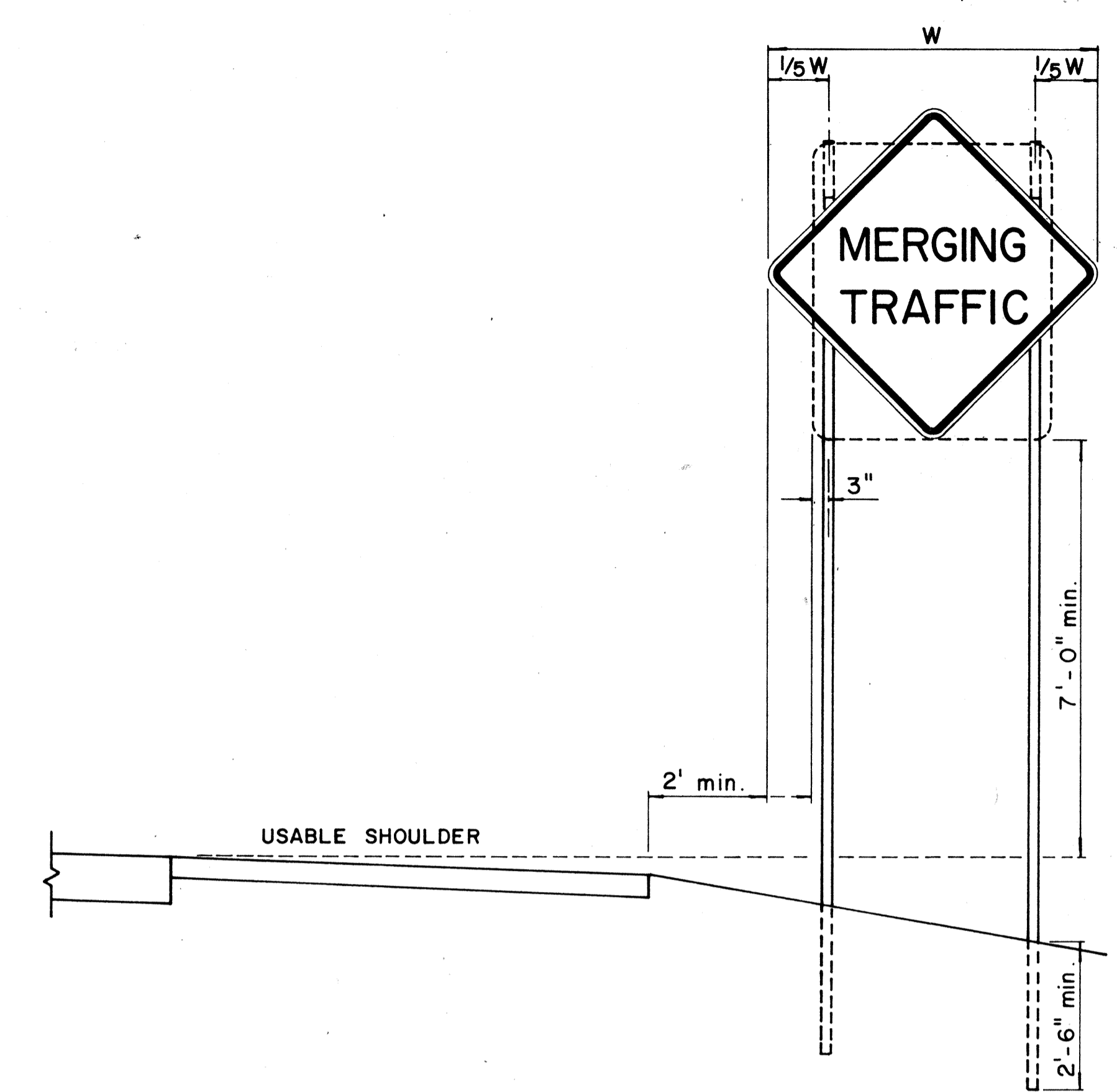
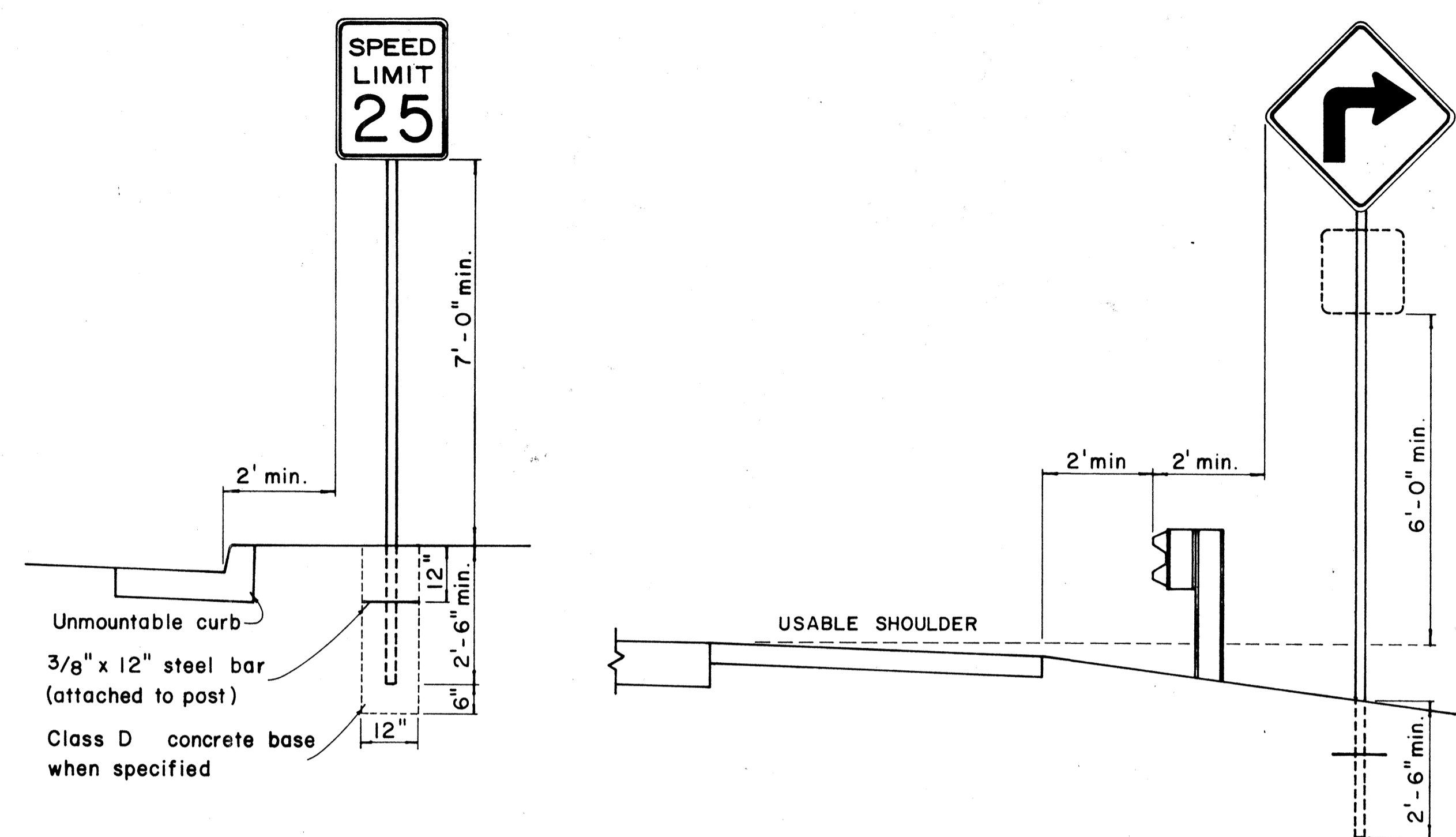
**NOTE:**  
1. SPIRAL WRAP TO EXIST. MESSENGER AND EXTEND TO EXIST. CONTROLLER



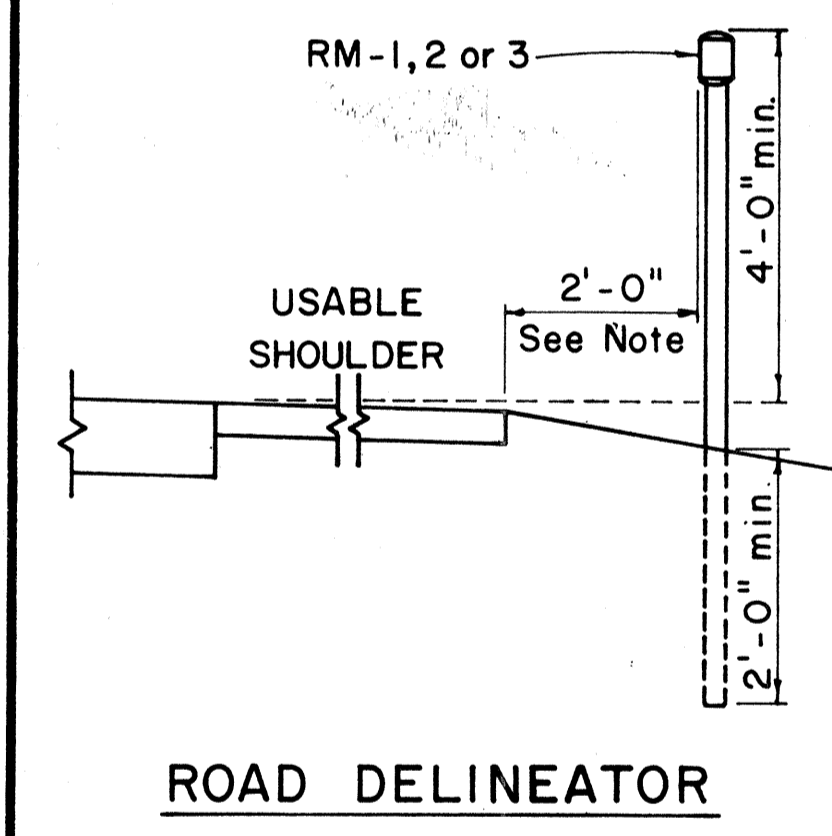
SURVEY PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ORIGINAL PLAN: \_\_\_\_\_  
 TRACED BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 QUANTITIES BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 NO. \_\_\_\_\_

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**TRAFFIC SIGNALS**  
 PHASE II C  
 PEARL HARBOR INTERCHANGE  
 F.A.I. PROJ. NO. I-HI-1 (73) : 15  
 SCALE: AS SHOWN DATE: OCT 12, 1976  
 SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS  
 WILBERT I. TAKAMIYA  
 THIS WORK WAS PREPARED BY ME  
 OR UNDER MY SUPERVISION.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(73)15	1974	121	360



## 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.

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

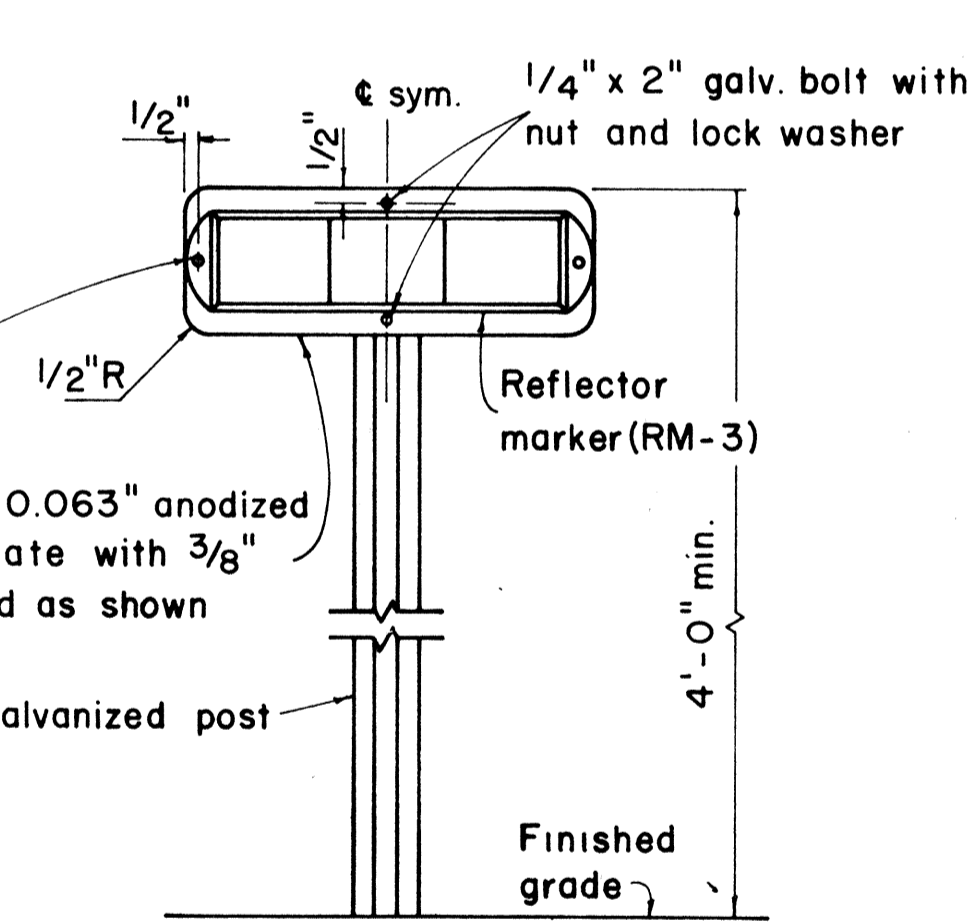
Galv 1 1/2" x 1 1/2" square tube post with a minimum weight of 1.7 lbs per ft

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

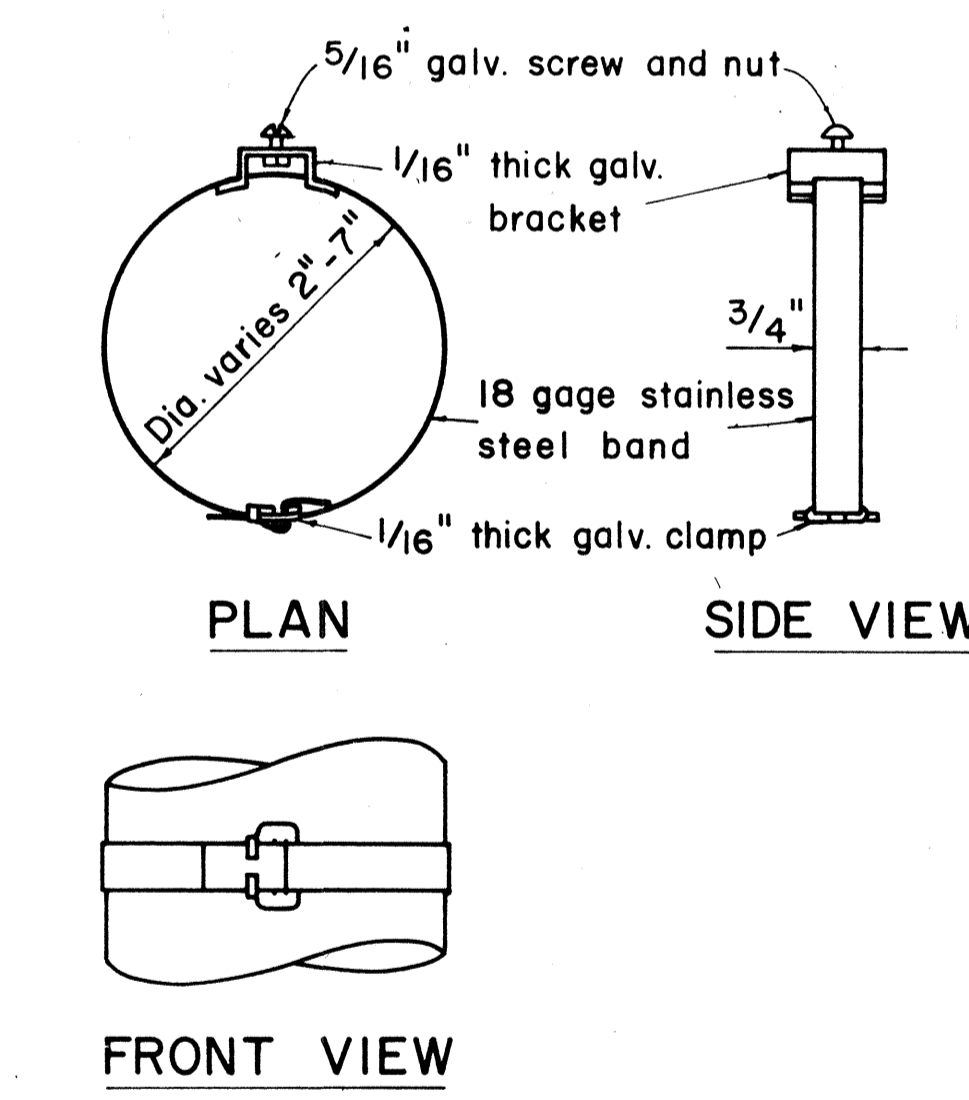
1/2" R

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

TYPICAL SECTION OF ROAD DELINEATOR



TYPICAL DETAIL  
HORIZONTAL REFLECTOR MARKER  
RM-3H



TYPICAL BAND BRACKET FOR  
MOUNTING TRAFFIC SIGNS

- 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.

APPROVAL RECOMMENDED:  
*E. I. Tanaka* 12/29/69  
 TRAFFIC ENGINEER DATE

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

NO.	REVISION	APPROVED BY	DATE

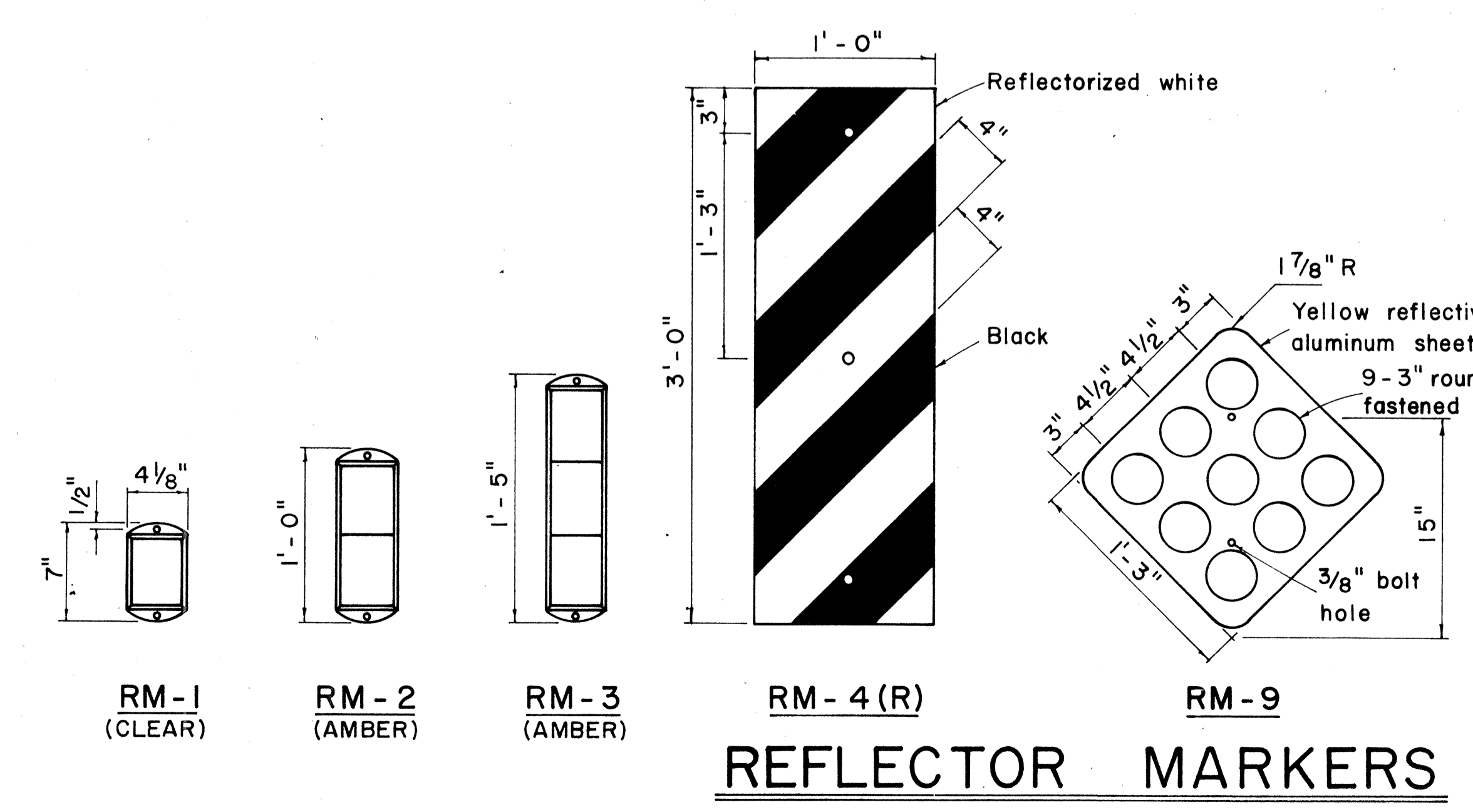
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
MISCELLANEOUS SIGN DETAILS

Not to scale March, 1968

SHEET No. 14 OF 26 SHEETS DT 100

DATE	
SURVEY PLATTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



REFLECTOR MARKERS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-11-(73)15	1974	122	369

STOP  
R1-1 30" x 30"  
R1-1-A 36" x 36"  
R1-3 12" x 6"  
R1-3-A 18" x 9"

YIELD  
R1-2 36" x 36" x 36"  
R1-2-A 48" x 48" x 48"

SPEED LIMIT 50  
R2-1(50) 24" x 30"  
R2-1(50)-A 48" x 60"

TRUCKS 40  
R2-2(40) 24" x 24"  
R2-2(40)-A 48" x 48"

SPEED LIMIT 50 MINIMUM 40  
R2-4a(50/40) 24" x 48"  
R2-4a(50/40)-A 48" x 96"

REDUCED SPEED 30 M.P.H.  
R2-5b(30) 24" x 30"  
R2-5b(30)-A 48" x 60"

NO RIGHT TURN  
R3-1 24" x 24"  
R3-1-A 48" x 48"  
R3-1 24" x 24"  
R3-1-A 48" x 48"

NO LEFT TURN  
R3-2 24" x 24"  
R3-2-A 48" x 48"

NO TURNS  
R3-3 24" x 24"  
R3-3-A 48" x 48"

NO U TURN  
R3-4 24" x 24"  
R3-4-A 48" x 48"

ONLY  
R3-5(L) 30" x 36"  
R3-5(L)-A 48" x 60"

ONLY  
R3-6(L) 30" x 36"  
R3-6(L)-A 48" x 60"

RIGHT LANE MUST TURN RIGHT  
R3-7(R) 30" x 30"  
R3-7(R)-A 48" x 48"

ONLY  
R3-8(L) 30" x 30"  
R3-8(L)-A 36" x 36"  
R3-8(L)-B 48" x 48"

CENTER LANE LEFT TURN ONLY  
R3-9 24" x 30"

DO NOT PASS  
R4-1 24" x 30"

PASS WITH CARE  
R4-2 24" x 30"

SLOWER TRAFFIC KEEP RIGHT  
R4-3 24" x 30"  
R4-3-A 48" x 60"

TRUCKS USE RIGHT LANE  
R4-5 24" x 30"

TRUCK LANE 500 FEET  
R4-6(500) 24" x 30"

KEEP RIGHT  
R4-7 24" x 30"  
R4-7 24" x 18"

KEEP LEFT  
R4-8 24" x 30"  
R4-8 24" x 18"

DO NOT ENTER  
R5-1 30" x 30"  
R5-1-A 48" x 48"

NO TRUCKS  
R5-2 24" x 24"  
R5-2 24" x 18"

COMMERCIAL VEHICLES EXCLUDED  
R5-4 24" x 30"

NO BICYCLES  
R5-6 24" x 24"  
R5-6 24" x 18"

WRONG WAY  
R5-9 36" x 24"

ONE WAY  
R6-1(R) 36" x 12"

ONE WAY  
R6-2(R) 18" x 24"

NO PARKING ANY TIME  
R7-1 12" x 18"  
R7-1-A 24" x 30"

NO STOPPING OR STANDING  
R7-4 12" x 18"  
R7-4-A 24" x 30"

NO PARKING BUS STOP  
R7-107(R) 12" x 18"

2 HR PARKING 8:30 AM TO 5:30 PM  
R7-108 12" x 18"

TOW-AWAY ZONE  
R7-201 12" x 6"  
R7-201-A 24" x 12"

NO PARKING ON PAVEMENT  
R8-1 24" x 30"

NO PARKING EXCEPT ON SHOULDER  
R8-2 24" x 30"

NO PARKING  
R8-3 24" x 30"

EMERGENCY PARKING ONLY  
R8-4 30" x 24"  
R8-4-A 48" x 36"

NO STOPPING ON PAVEMENT  
R8-5 24" x 30"

NO STOPPING EXCEPT ON SHOULDER  
R8-6 24" x 30"

EMERGENCY STOPPING ONLY  
R8-7 30" x 24"  
R8-7-A 48" x 36"

WALK ON LEFT FACING TRAFFIC  
R9-1 18" x 24"

CROSS ONLY AT CROSS WALKS  
R9-2 12" x 18"

NO PEDESTRIAN CROSSING  
R9-3 12" x 18"

NO HITCH HIKING  
R9-4 18" x 24"

CROSS ON GREEN LIGHT ONLY  
R10-1 12" x 18"

CROSS ON WALK SIGNAL ONLY  
R10-2 12" x 18"

PUSH BUTTON FOR GREEN LIGHT  
R10-3 9" x 12"

PUSH BUTTON FOR WALK SIGNAL  
R10-4 9" x 12"

LEFT ON ARROW ONLY  
R10-5 24" x 30"

STOP HERE ON RED  
R10-6 24" x 36"

DO NOT BLOCK INTERSECTION  
R10-7 24" x 30"

USE LANE WITH GREEN ARROW  
R10-8 24" x 30"

RIGHT TURN ON RED AFTER STOP  
R10-9 24" x 30"

LEFT TURN SIGNAL  
R10-10 24" x 30"

KEEP OFF MEDIAN  
R11-1 24" x 30"

ROAD CLOSED  
R11-2 48" x 30"

ROAD CLOSED 10 MILES AHEAD LOCAL TRAFFIC ONLY  
R11-3(10) 60" x 30"

ROAD CLOSED TO THRU TRAFFIC  
R11-4 60" x 30"

WEIGHT LIMIT 10 TONS  
R12-1(10) 24" x 30"

**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."
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:  
*Eishi Tanaka* 3/17/72  
TRAFFIC ENGINEER DATE

APPROVED:  
*Robert Robinson* 3-20-72  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H.C.	3/20/72

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

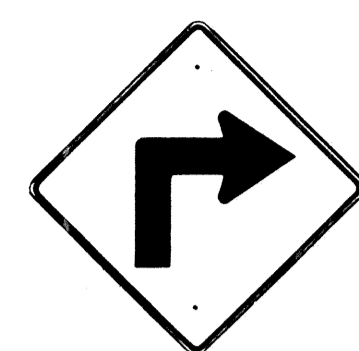
**STANDARD DETAILS**  
**REGULATORY SIGNS**

NOT TO SCALE

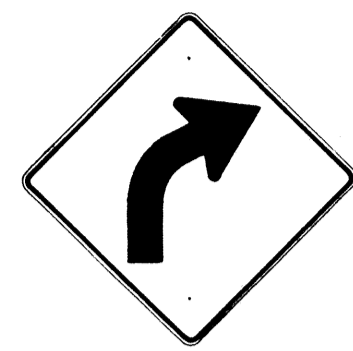
SHEET No. 15 OF 26 SHEETS DT 101

DATE: \_\_\_\_\_  
SURVEY PLATTED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
ORIGINAL PLAN: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_  
No. \_\_\_\_\_

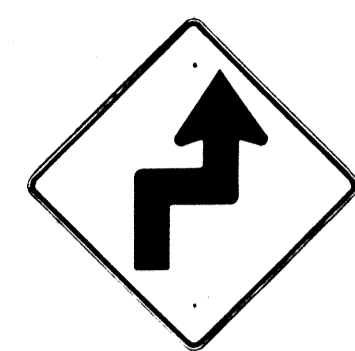
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(72)15	1974	123	369



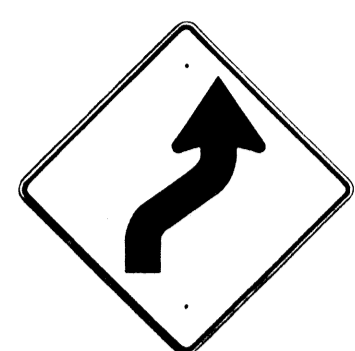
W1-1(R) 30"x30"  
W1-1(R)-A 48"x48"



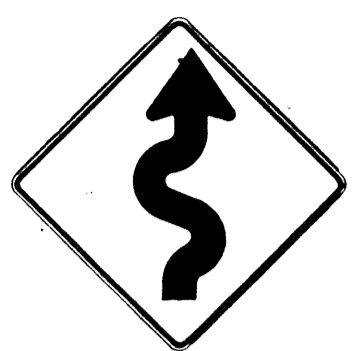
W1-2(R) 30"x30"  
W1-2(R)-A 48"x48"



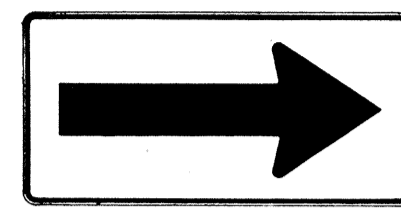
W1-3(R) 30"x30"  
W1-3(R)-A 48"x48"



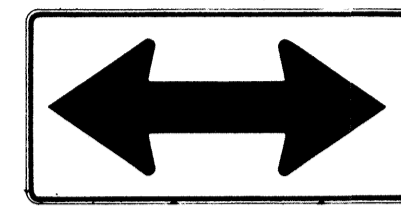
W1-4(R) 30"x30"  
W1-4(R)-A 48"x48"



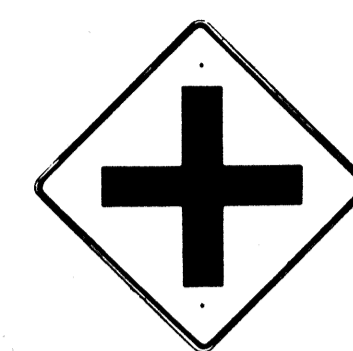
W1-5(R) 30"x30"  
W1-5(R)-A 48"x48"



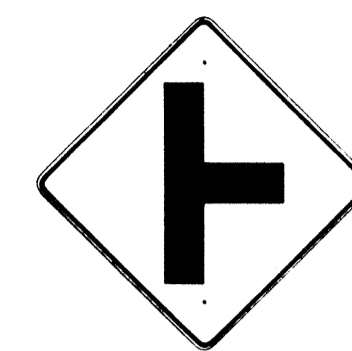
W1-6 48"x24"



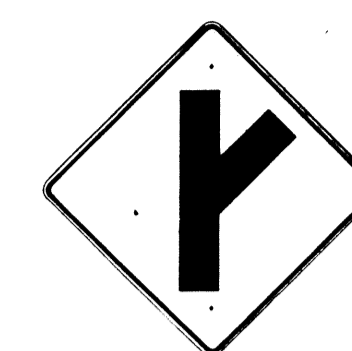
W1-7 48"x24"



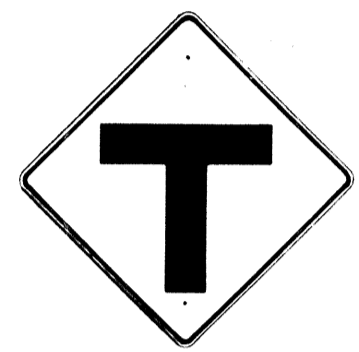
W2-1 30"x30"  
W2-1-A 48"x48"



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"



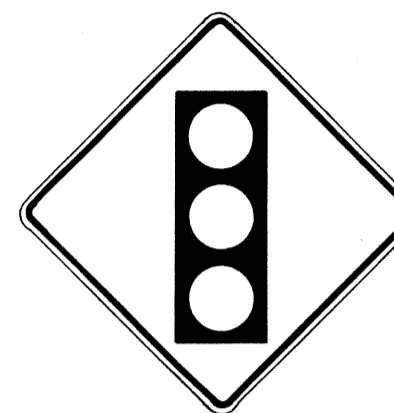
W2-5 30"x30"  
W2-5-A 48"x48"



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

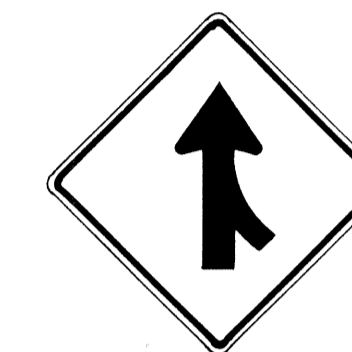


W3-2 30"x30"  
W3-2-A 36"x36"



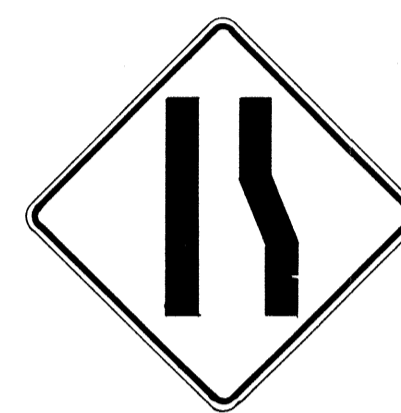
SIGNAL AHEAD

W3-3 36"x36"  
24"x18"



MERGE

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"

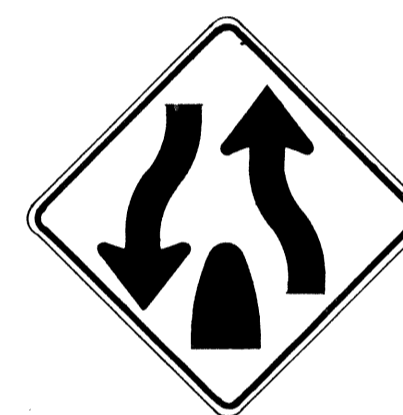


W5-3 36"x36"



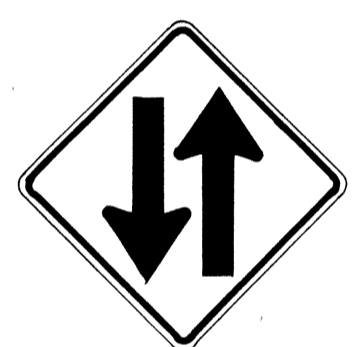
DIVIDED HIGHWAY

W6-1 36"x36"  
24"x18"



DIVIDED HIGHWAY ENDS

W6-2 36"x36"  
24"x18"



TWO WAY TRAFFIC

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



HILL

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



USE LOW GEAR

W7-2 24"x18"



BUMP

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



DIP

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



PAVEMENT ENDS

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



SOFT SHOULDER

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



SLIPPERY WHEN WET

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



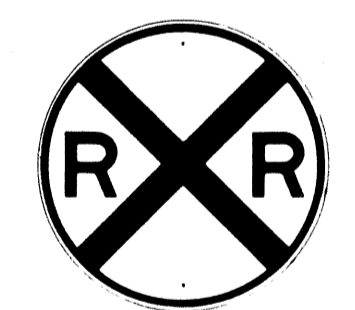
RIGHT LANE ENDS

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



LANE ENDS MERGE LEFT

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



W10-1 36" Diameter



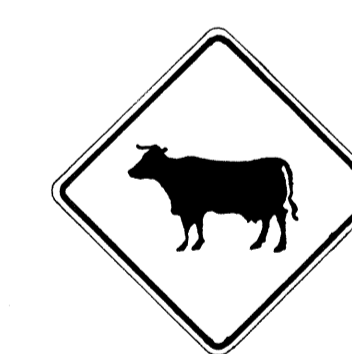
BIKE XING

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



PED XING

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



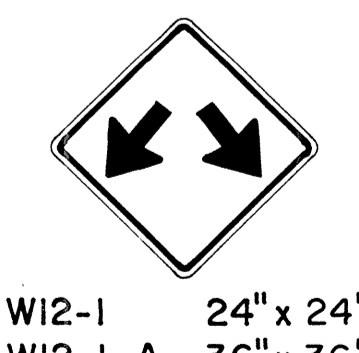
CATTLE XING

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



FARM MACHINERY

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"



LOW CLEARANCE

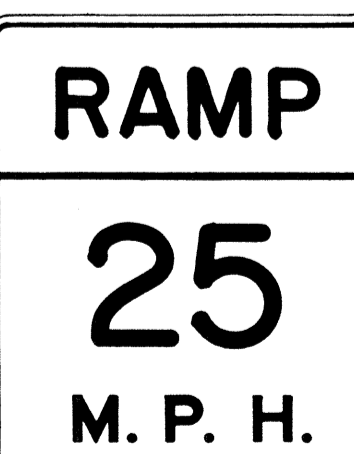
W12-2(12'-6") 36"x36"  
24"x18"



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



W13-2(25) 48"x60"



W13-3(25) 48"x60"



DEAD END

W14-1 30"x30"



W14-3 36"x48"x48"

### 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."
- All warning signs shall be reflectorized unless otherwise specified.
- All warning 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.
- Signs prefixed with "CW" on the plans shall indicate orange and black construction signs.

APPROVAL RECOMMENDED:  
*E. Tanaka*  
TRAFFIC ENGINEER

3/17/72  
DATE

APPROVED:  
*Walter R. ...*  
ASSISTANT CHIEF, ENGINEERING

3-20-72  
DATE

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

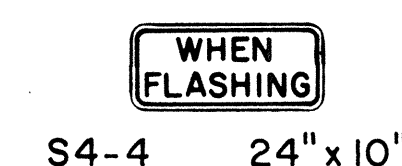
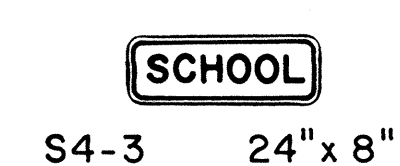
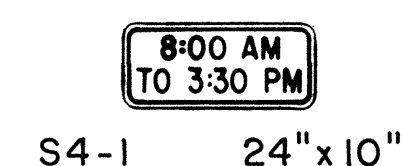
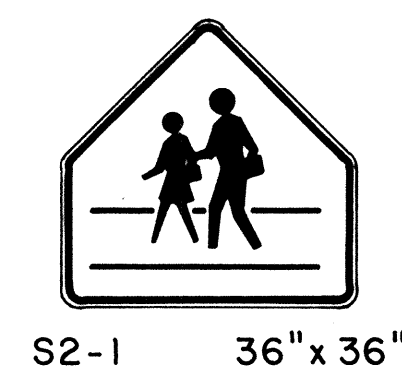
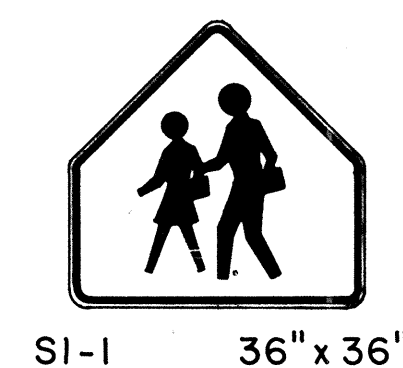
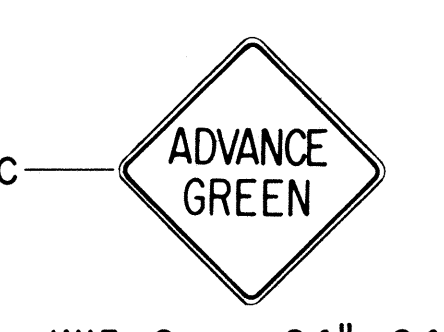
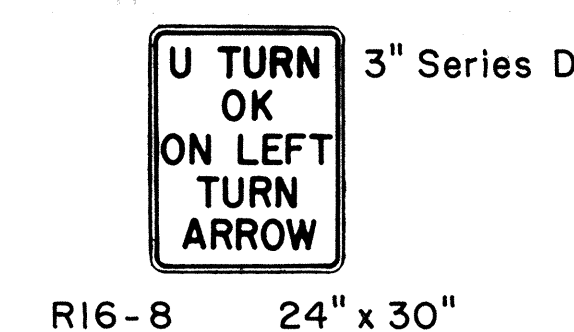
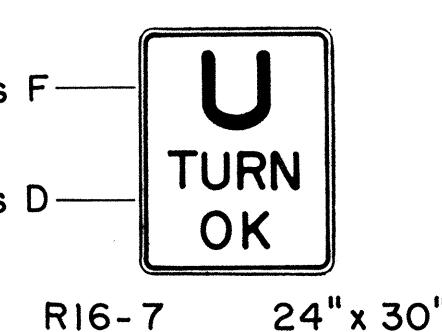
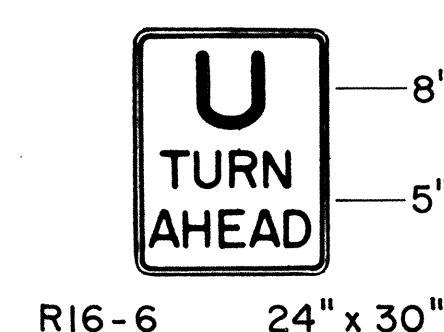
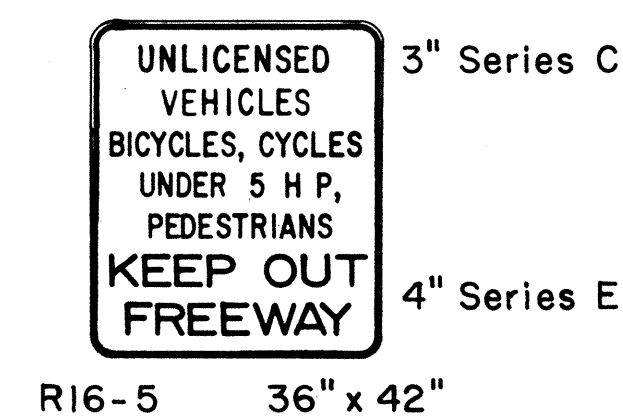
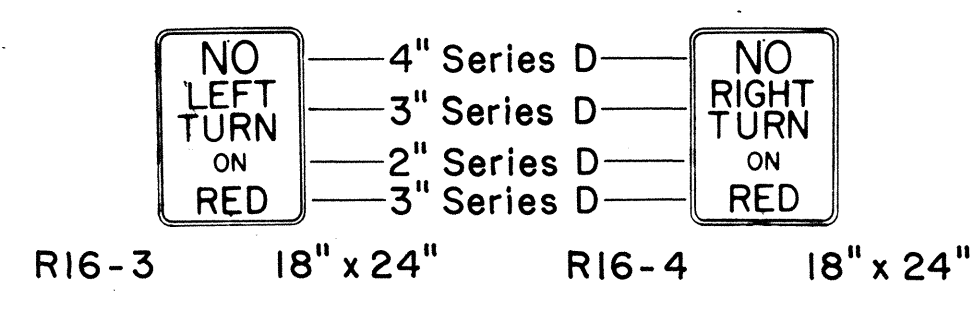
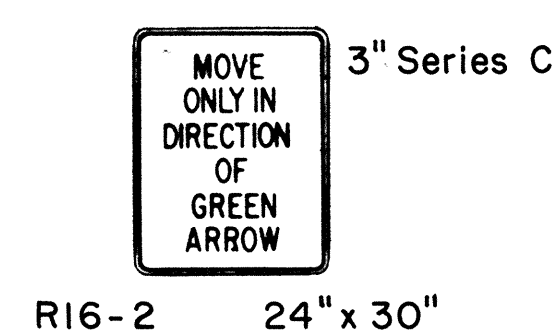
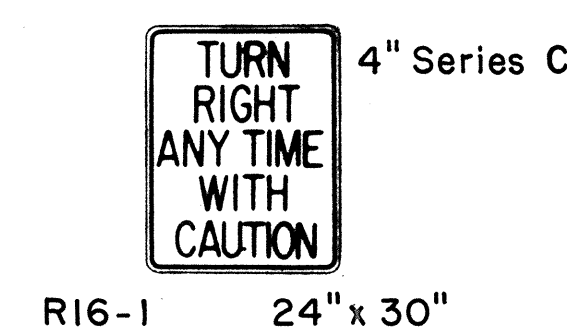
### STANDARD DETAILS WARNING SIGNS

NOT TO SCALE

SHEET No. 16 OF 26 SHEETS DT 102

DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(73)15	1974	124	360



### 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."
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.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

APPROVAL RECOMMENDED:  
*Erich Tanaka* 3/17/72  
 TRAFFIC ENGINEER DATE

APPROVED:  
*Harold Zatsich* 2-20-72  
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 103 Approved 12-30-69	H.T.	3/20/72

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.	I-HI-(13)15	1974	125	369



CW20-1a 48"x48"



CW20-2d 48"x48"



CW20-3b 48"x48"



CW20-4d 48"x48"



CW20-5d(L) 48"x48"



CW20-7c 48"x48"



CW21-1 30"x30"



CW21-2 30"x30"



CW21-3 36"x36"



CW21-4 36"x36"



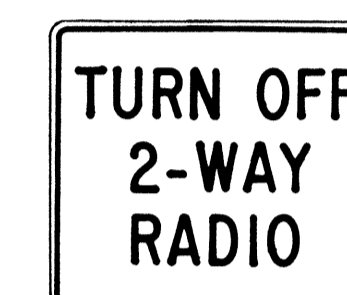
CW21-5 30"x30"



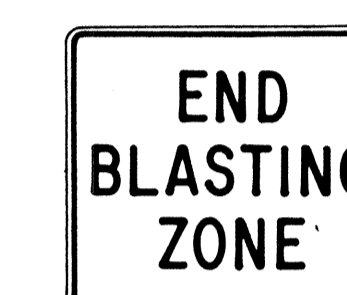
CW21-6 30"x30"



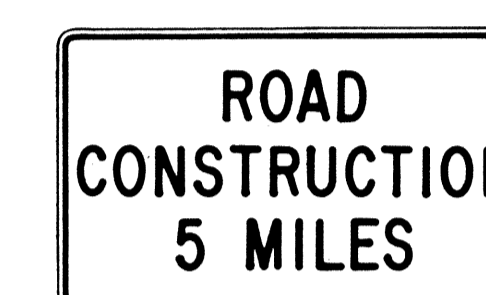
CW22-1b 48"x48"



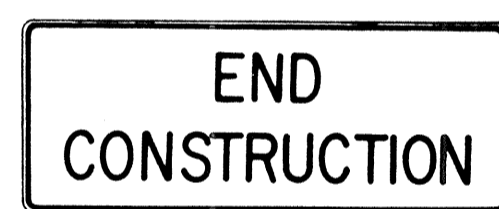
CW22-2 42"x36"



CW22-3 42"x36"



CG20-1(5) 60"x36"



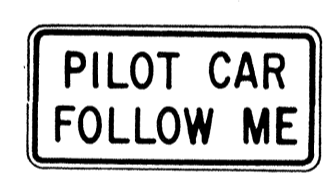
CG20-2 60"x24"



CM4-9(R) 30"x24"



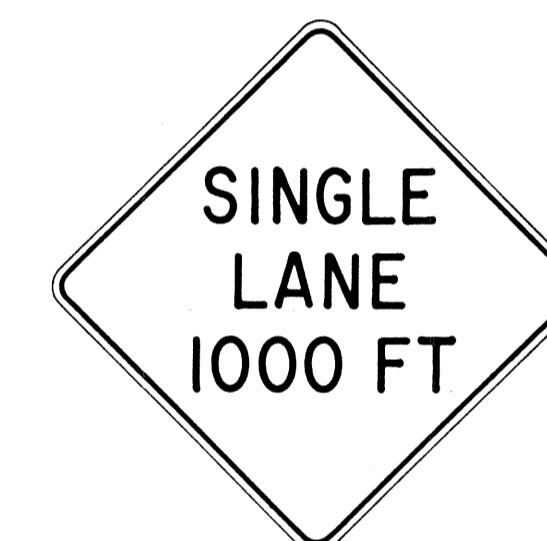
CM4-10(R) 48"x18"



CG20-4 36"x18"



CW23-1 36"x36"



CW23-2b 48"x48"



CW23-3(R) 48"x48"

**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."
- 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:  
*Eishi Tanaka*  
TRAFFIC ENGINEER  
DATE 3/21/72

APPROVED:  
*Shigeru Sasaki*  
ASSISTANT CHIEF, ENGINEERING  
DATE 2/23/72

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 104 Approved 12-30-69	H.T.	2/25/72

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
**CONSTRUCTION SIGNS**

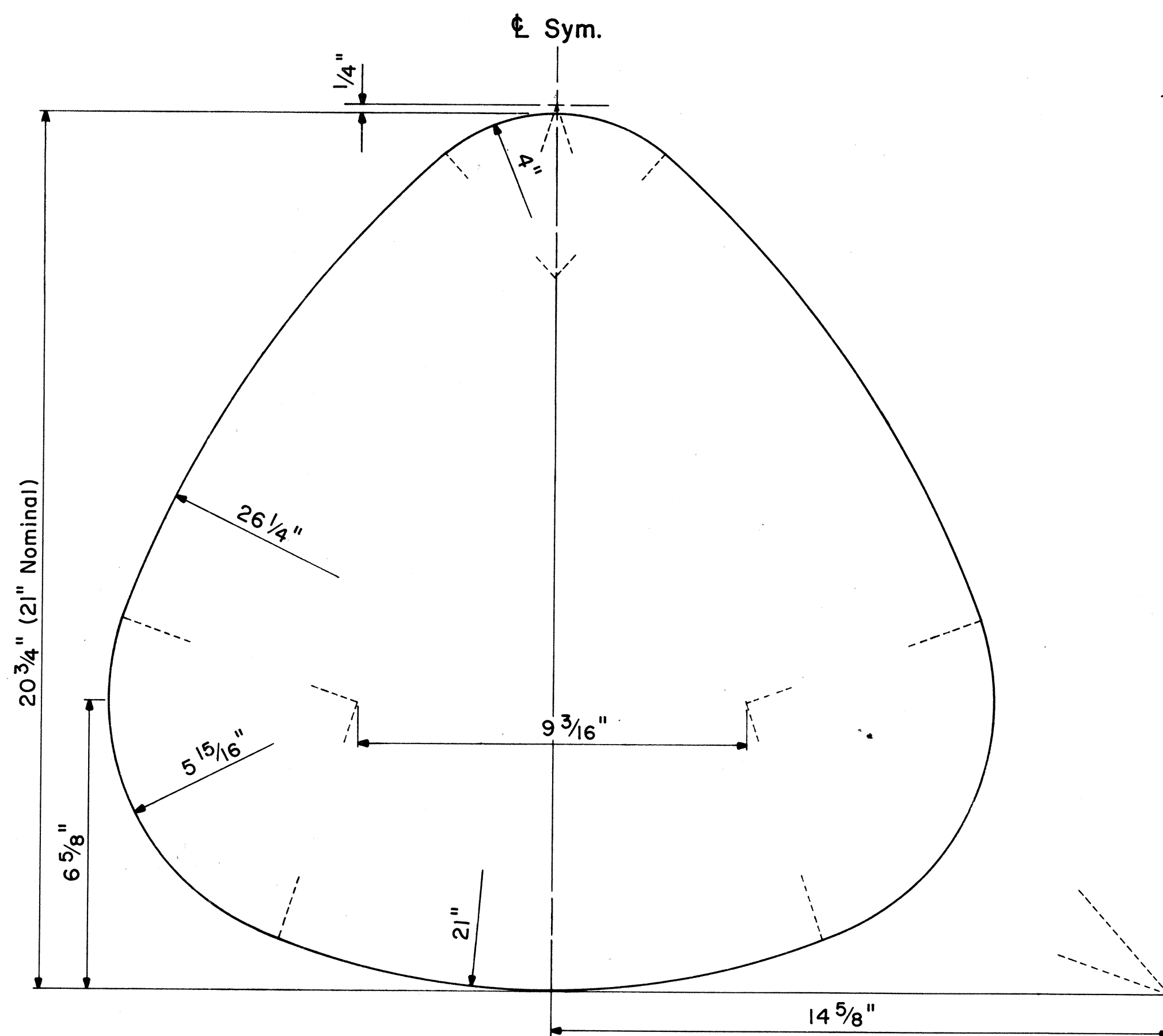
NOT TO SCALE

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.	I-HH(73)15	1974	126	369

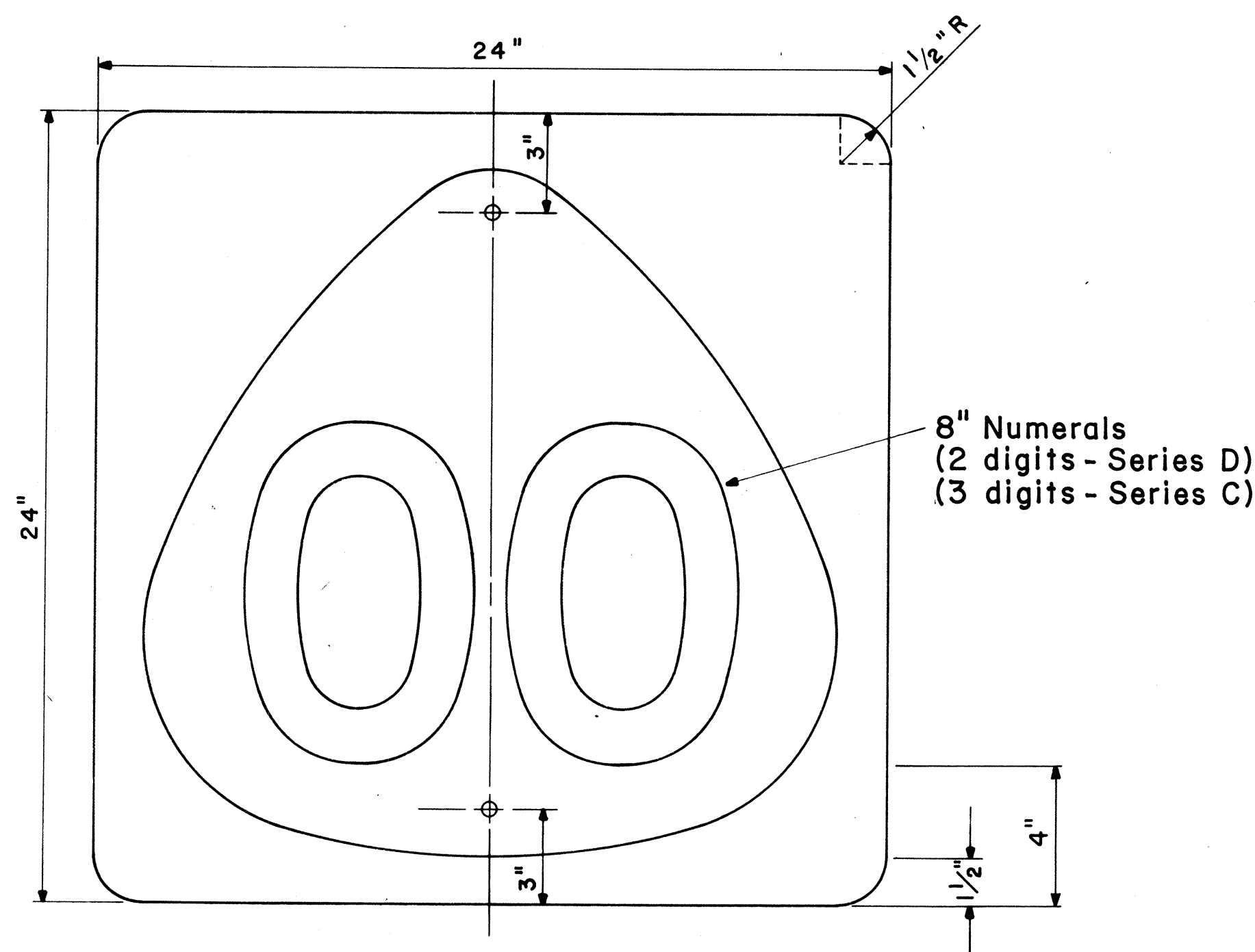
### GENERAL NOTES

- Marker details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, "Standard Alphabets for Highway Signs," 1966 and "Standard Highway Signs," 1966.
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have  $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- Numerals in ( ) indicates numerals to be inserted for marker message. (R) or (L) indicates right or left.
- Sign message of Cardinal Direction Marker (M3 series) shall be denoted by the following:
  - M3-1 : NORTH
  - M3-2 : EAST
  - M3-3 : SOUTH
  - M3-4 : WEST
- Markers prefixed with "IM" on the plans shall have a white legend on a blue background.



### STATE ROUTE MARKER DETAIL

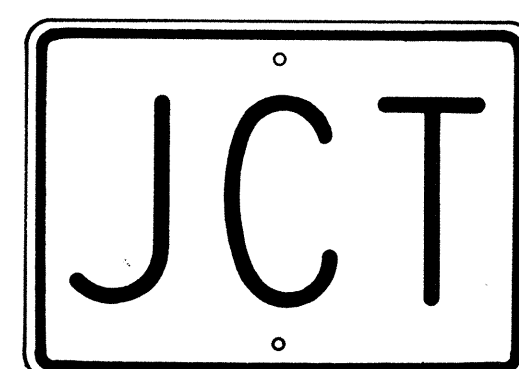
Not to Scale



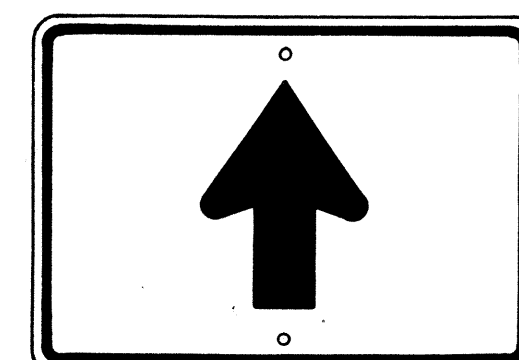
### STATE ROUTE MARKER

MI-6 (00) 24" x 24"

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



M2-1 21" x 15"



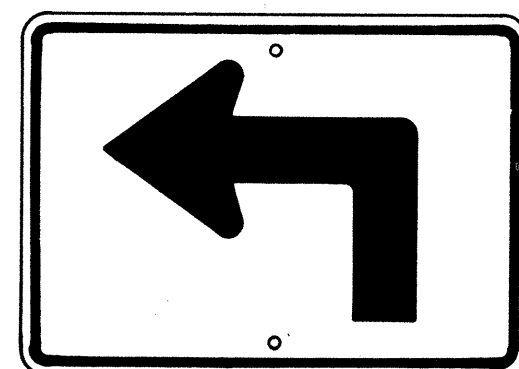
M6-3 21" x 15"



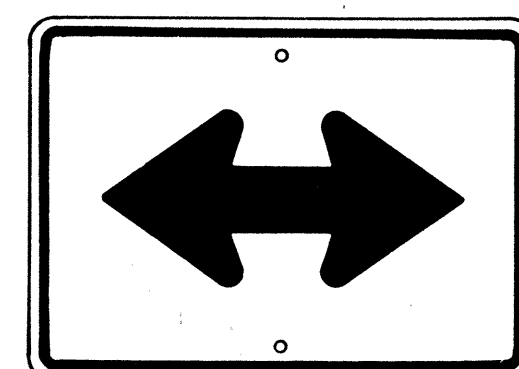
M3-1 24" x 12"  
M3-1-A 36" x 18"



M4-1 24" x 12"



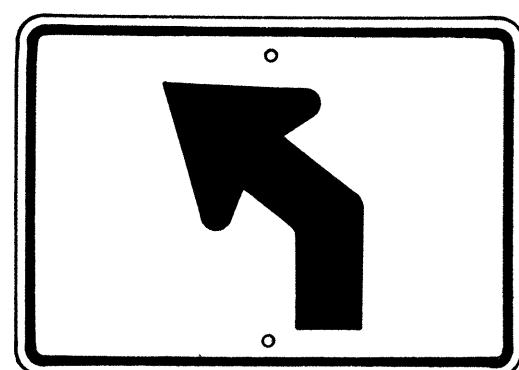
M5-1(L) 21" x 15"



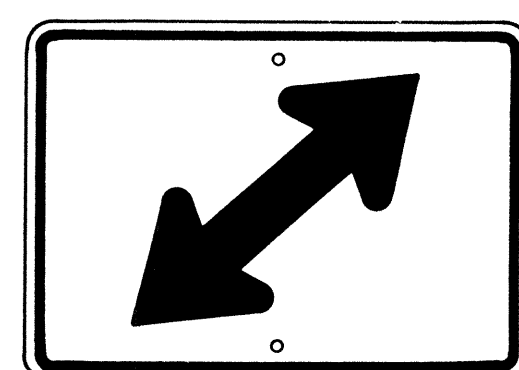
M6-4 21" x 15"



M4-2 24" x 12"



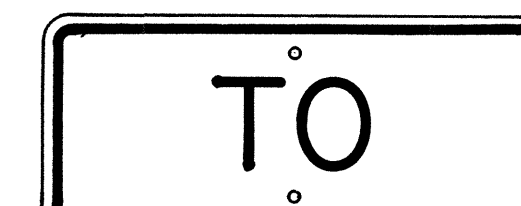
M5-2(L) 21" x 15"



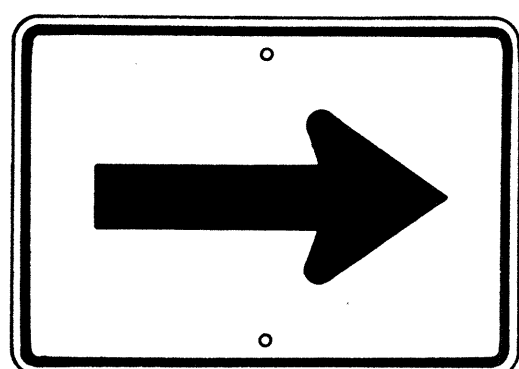
M6-5(R) 21" x 15"



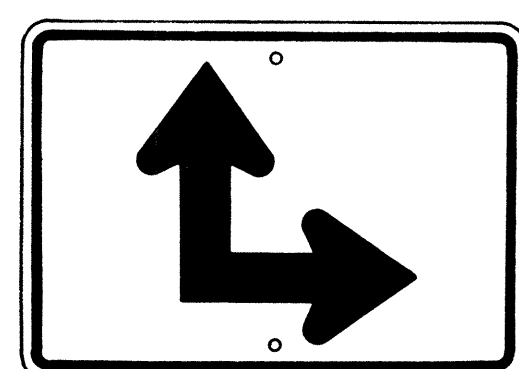
M4-3 24" x 12"



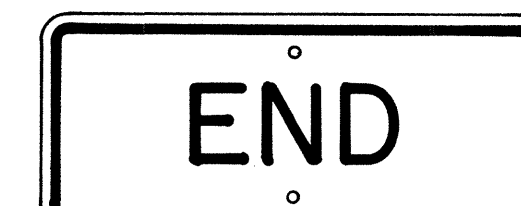
M4-5 24" x 12"



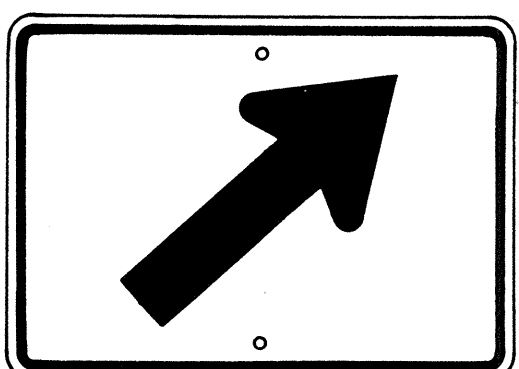
M6-1 21" x 15"



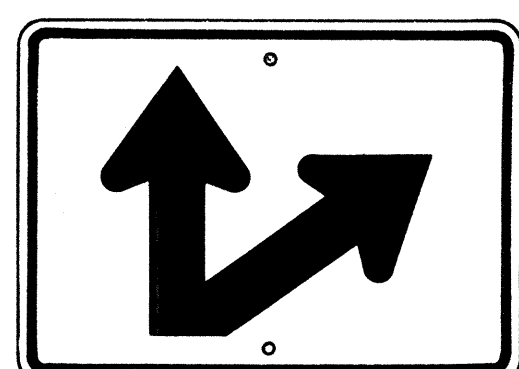
M6-6(R) 21" x 15"



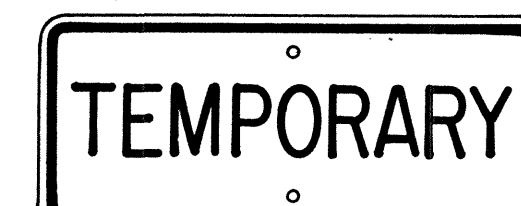
M4-6 24" x 12"



M6-2(R) 21" x 15"



M6-7(R) 21" x 15"



M4-7 24" x 12"



M4-8 24" x 12"

### AUXILIARY MARKERS

Not to Scale

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 105 Approved 12-30-69	H.C.	6/11/72

APPROVAL RECOMMENDED:  
*Eishi Tanaka* 6/6/72  
 TRAFFIC ENGINEER DATE

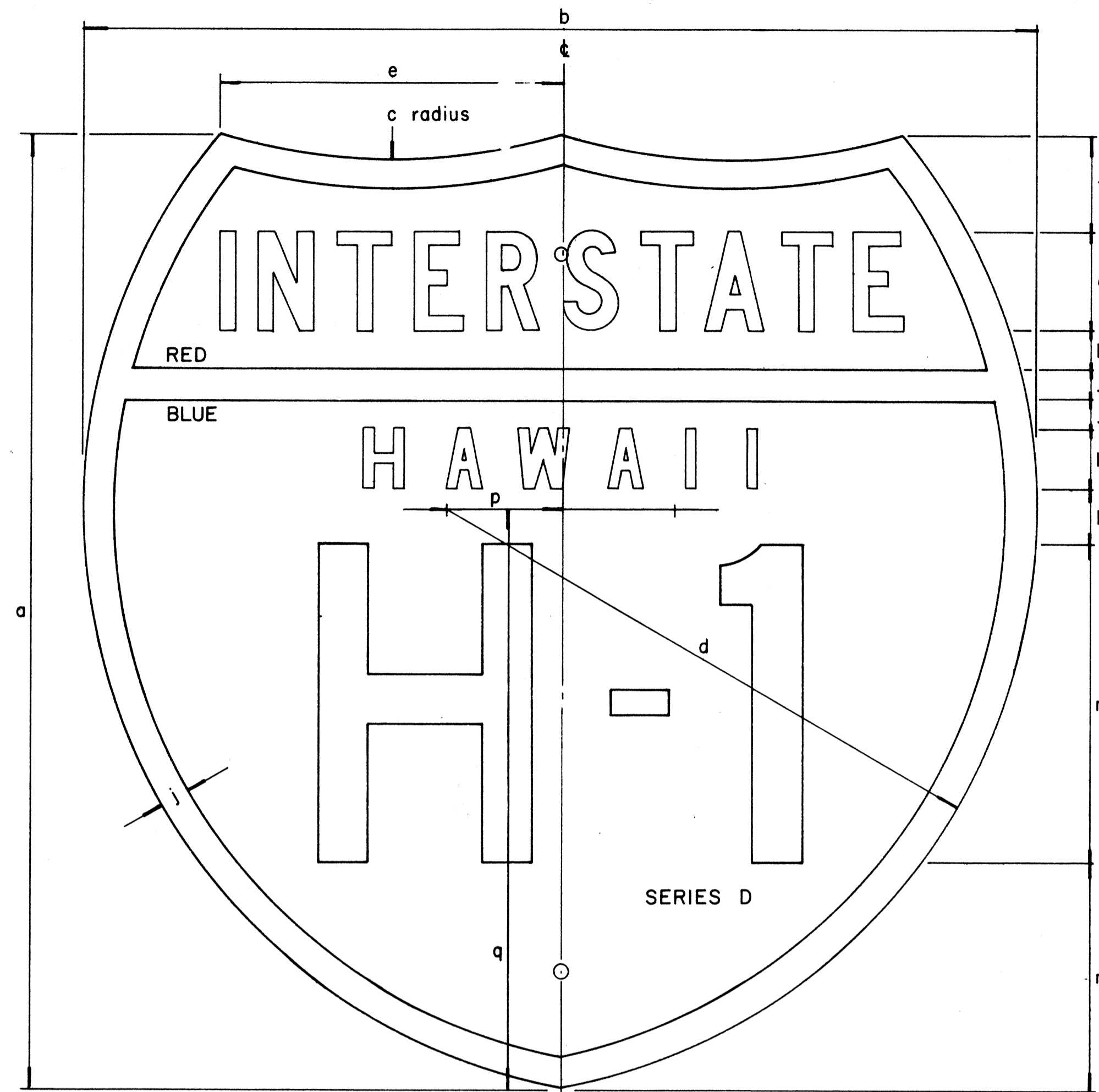
APPROVED:  
*Shelton S. Sakai* 6-1-72  
 ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
 STANDARD DETAILS  
 STATE ROUTE MARKER  
 AND AUXILIARY MARKERS

Scale: As Shown  
 SHEET No. 10 OF 26 SHEETS DT 105

SURVEY PLOTTED BY	DATE
ORIGINAL PLAN	DRAWN BY
NOTE BOOK	DESIGNED BY
	CHECKED BY

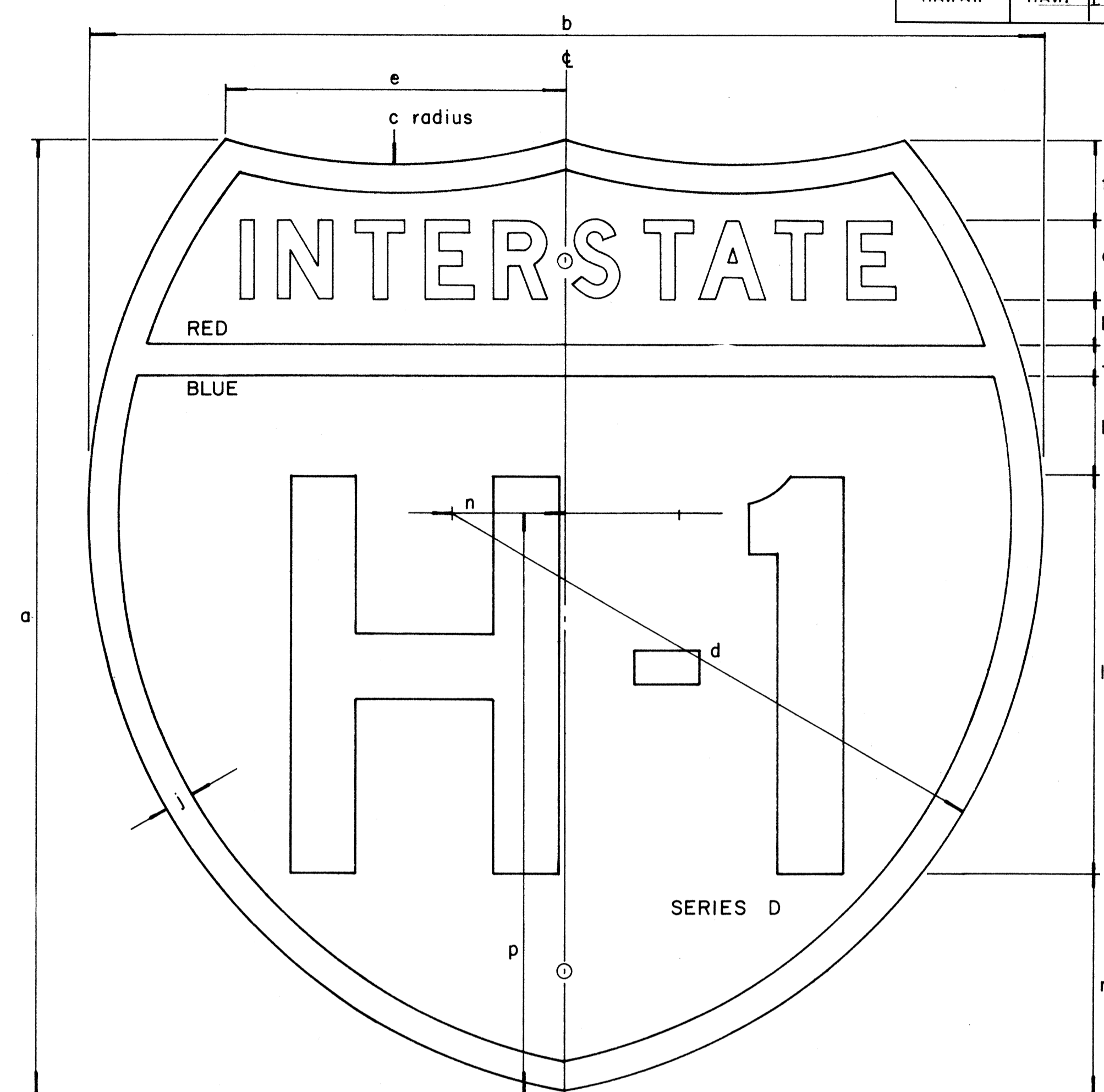
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1H1(73)15	1974	127	369



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

ORIGINAL PLAN	DATE
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

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, 1966
- 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.

APPROVAL RECOMMENDED:

*Eiichi Tanaka* 12/29/69  
TRAFFIC ENGINEER DATE

APPROVED:

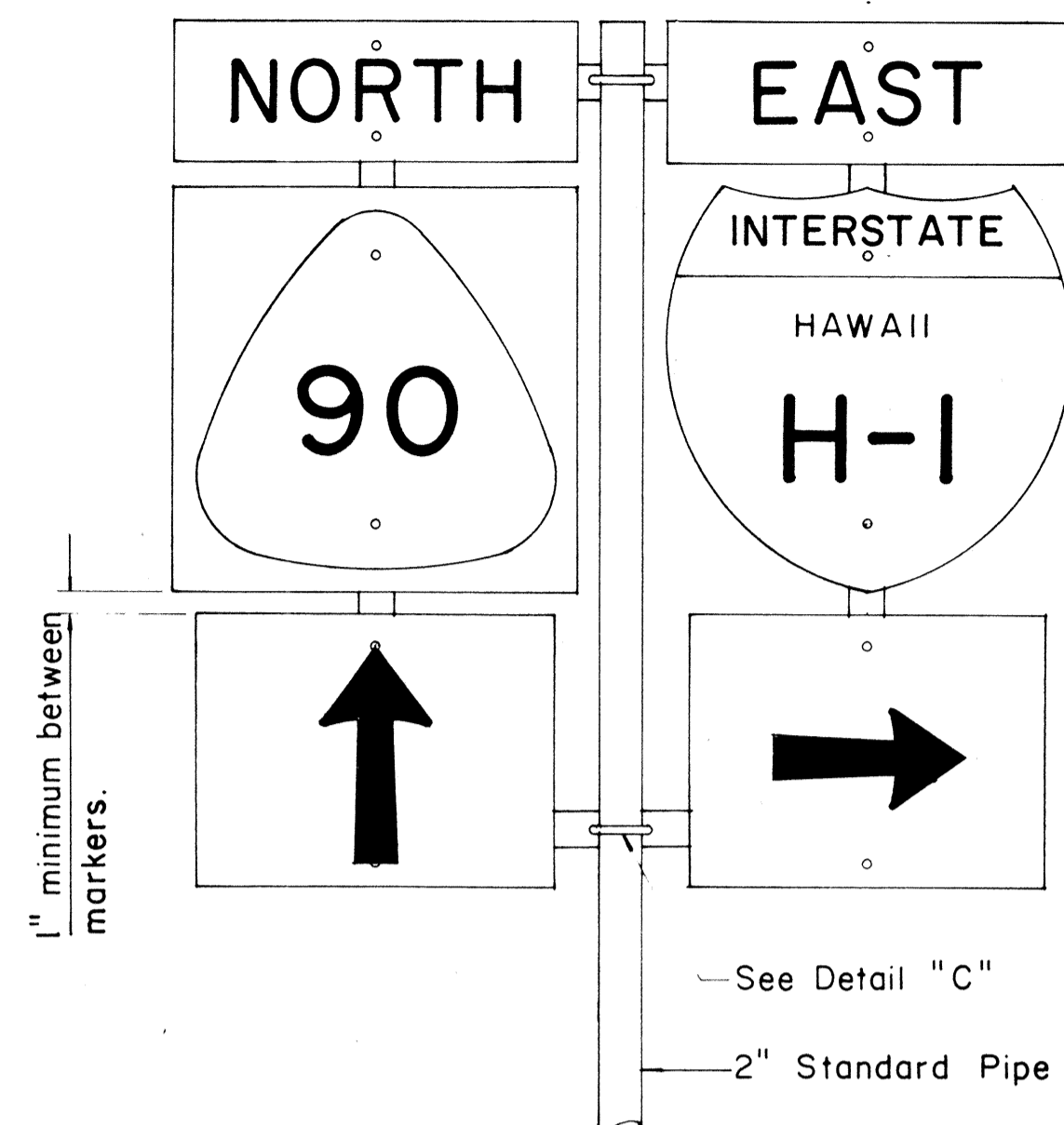
*Shunji S. S. S.* 12-30-69  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
INTERSTATE ROUTE MARKERS

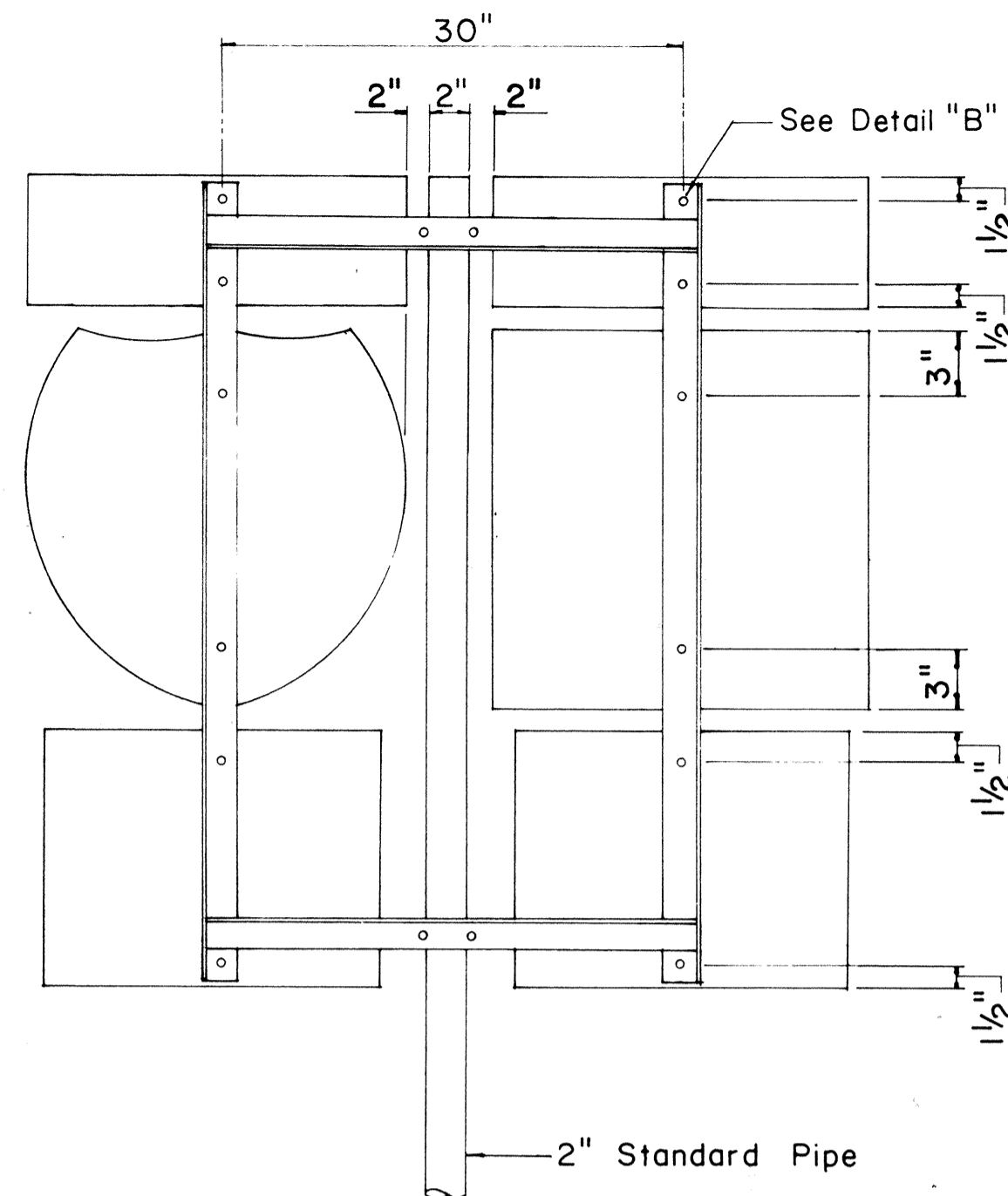
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(73)15	1974	128	369



FRONT ELEVATION

**TYPE "B" ASSEMBLY**

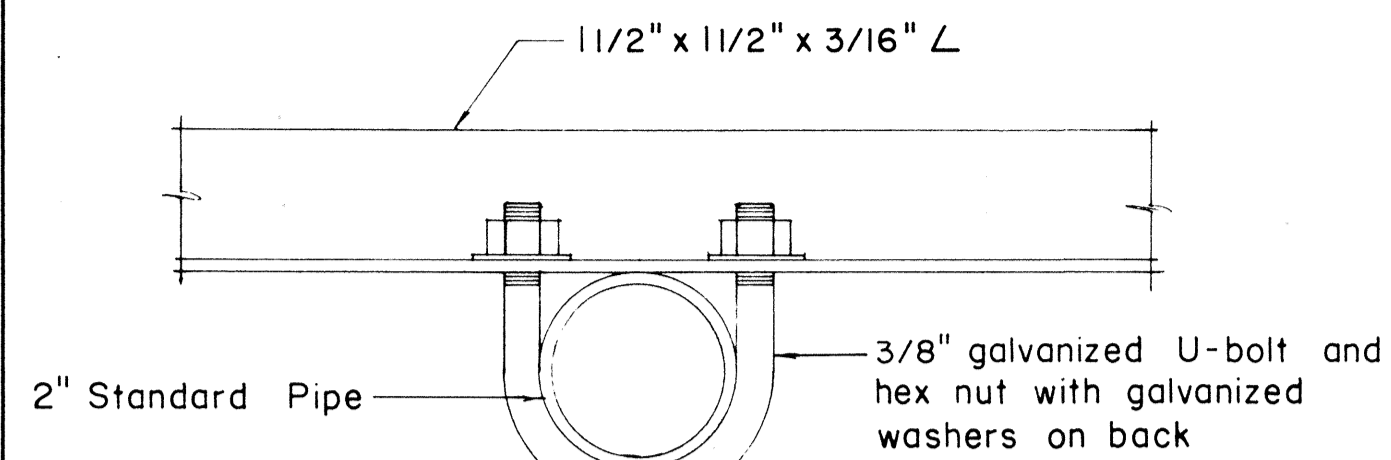
Not to Scale



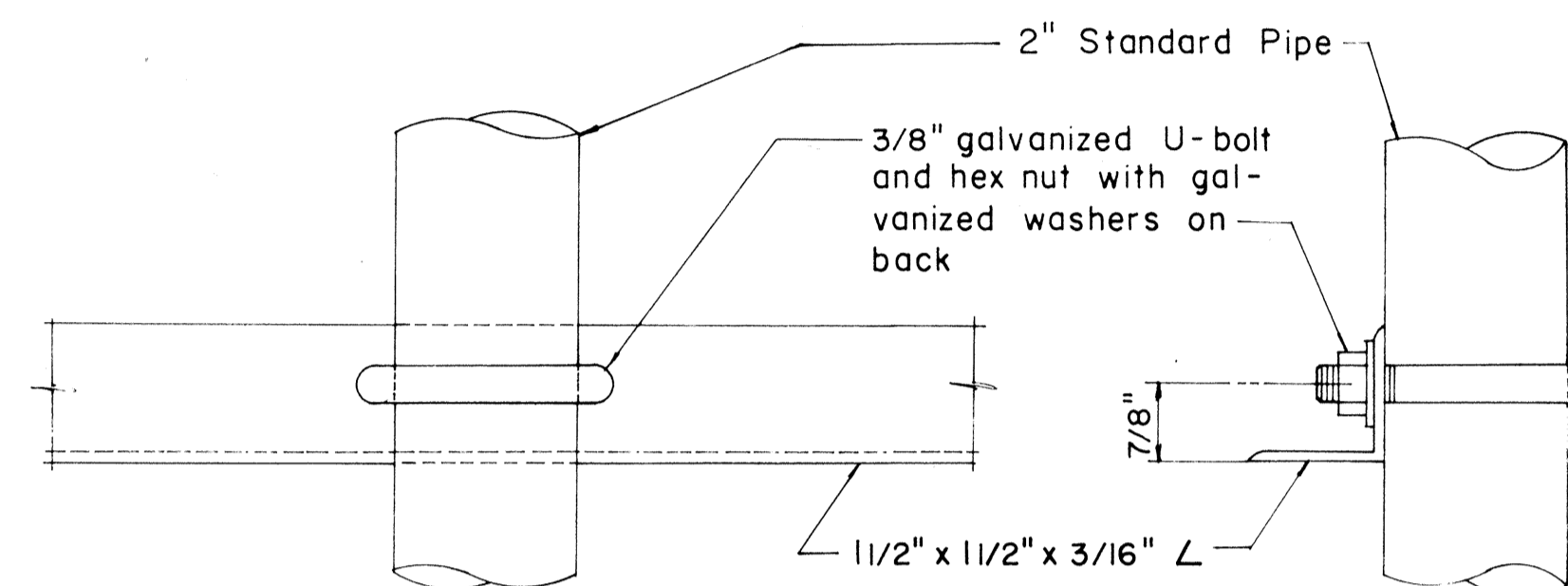
REAR ELEVATION

NOTE:

- Minimum clearance between markers shall be one inch. (Larger clearances shall be in multiples of one inch.)
- Pipe post for Type "A" & Type "B" Assembly shall be 2" Standard Pipe.



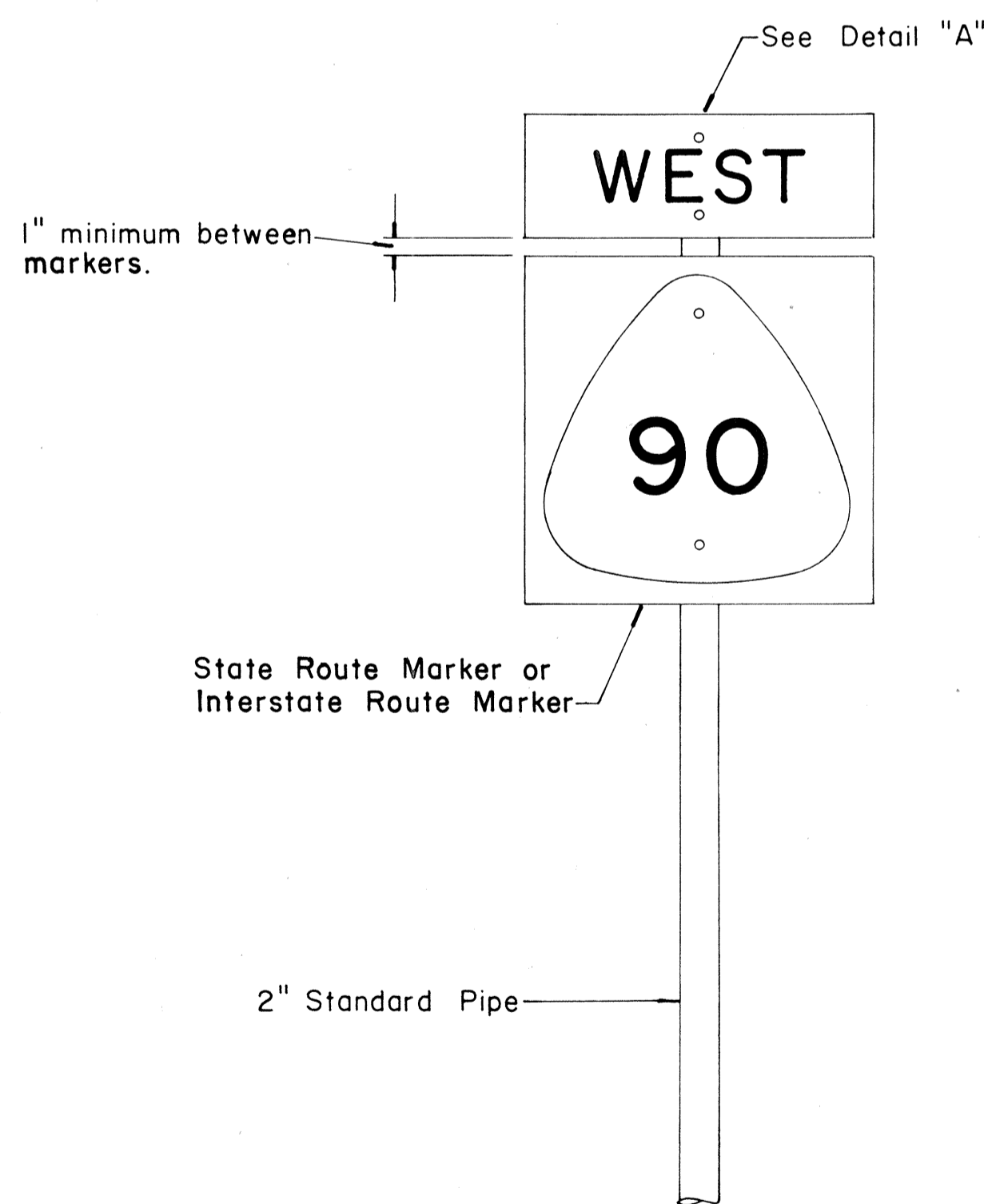
PLAN



FRONT ELEVATION

SIDE ELEVATION

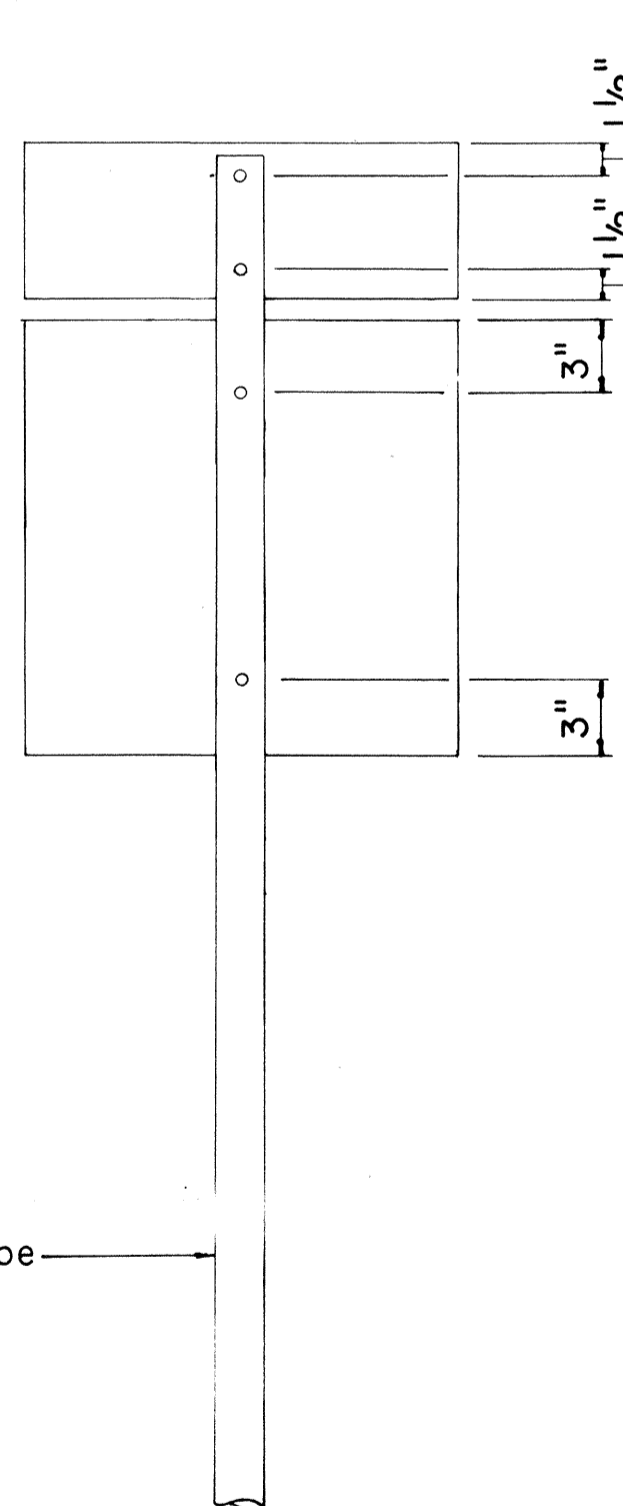
**DETAIL "C"**



FRONT ELEVATION

**TYPE "A" ASSEMBLY**

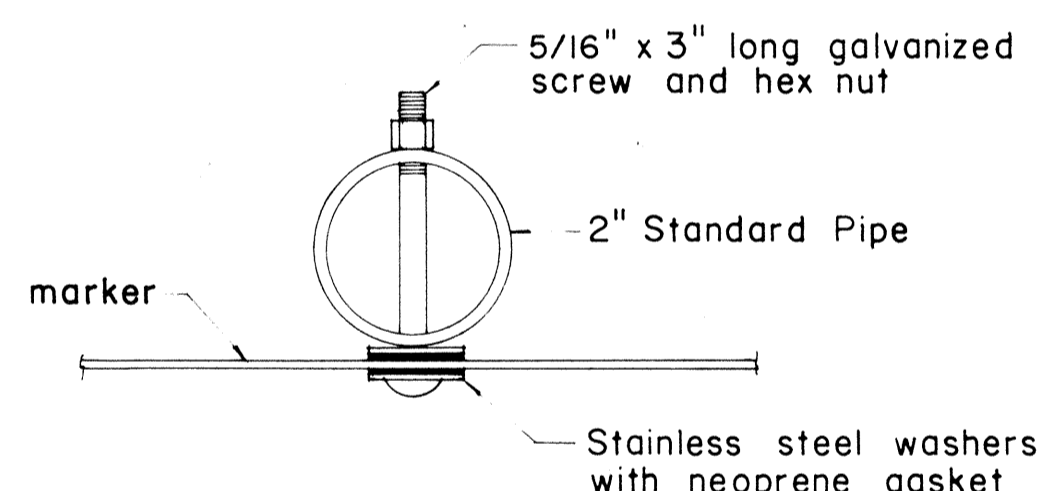
Not to Scale



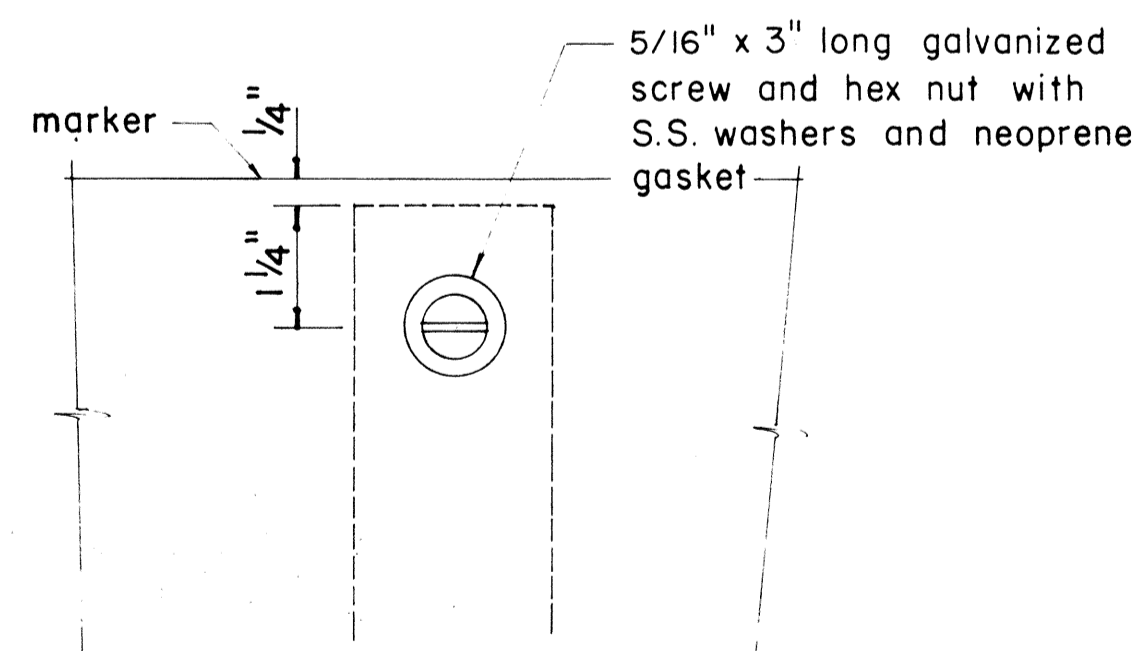
REAR ELEVATION

NOTE:

For height and lateral location of Route Marker Assembly, see plan sheet DT 100.

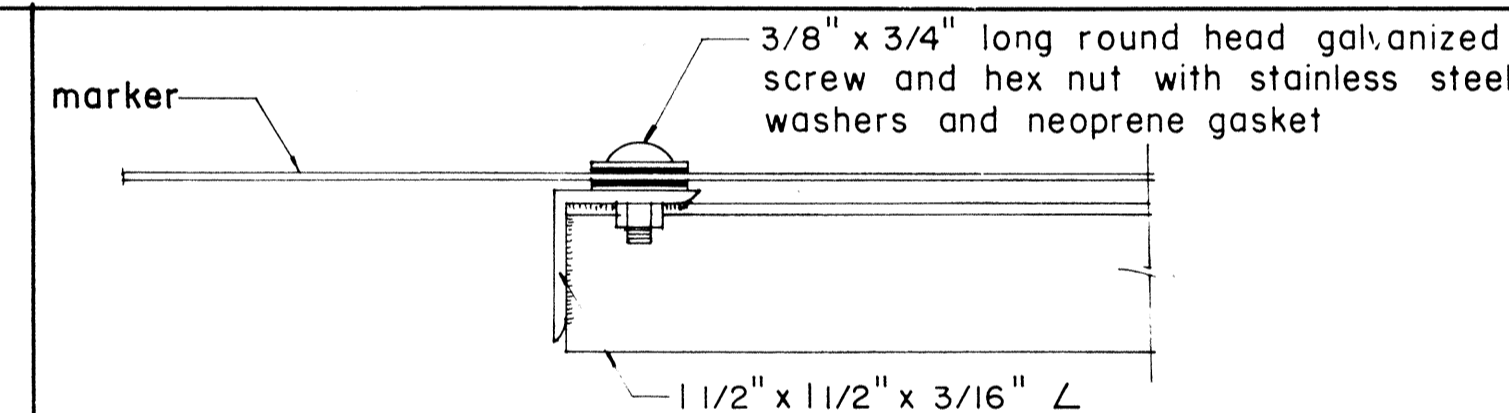


PLAN

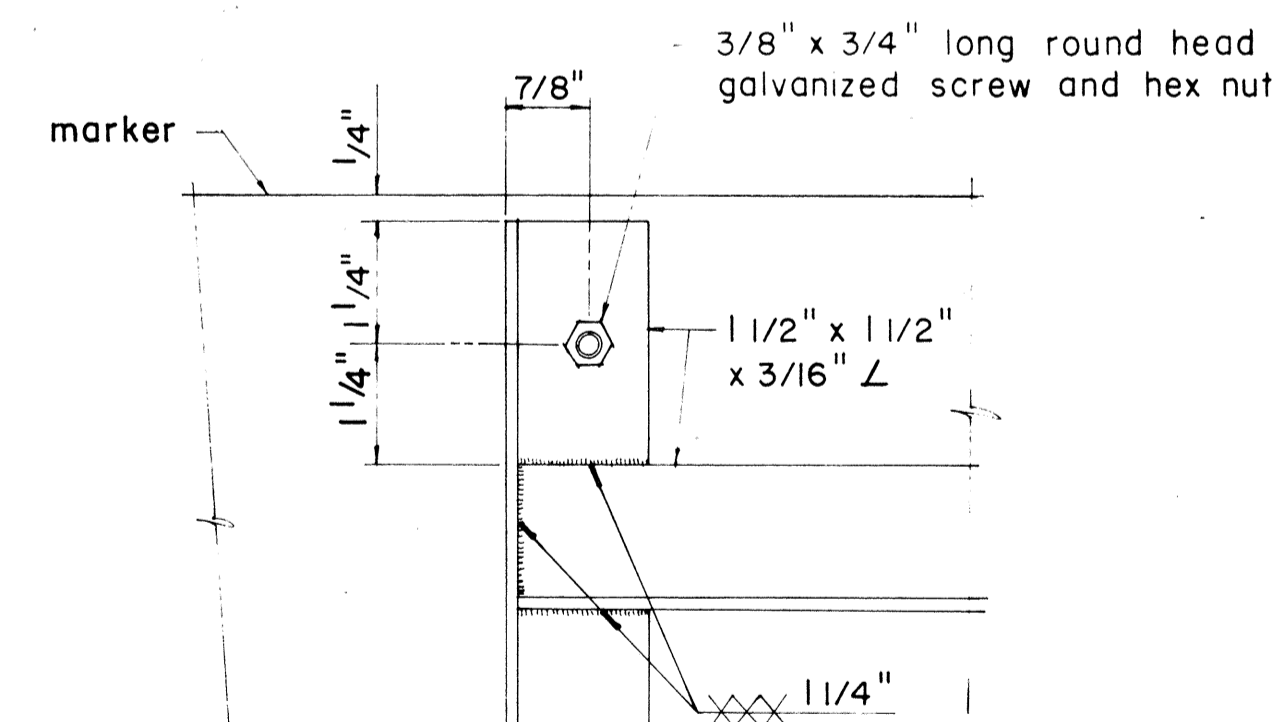


FRONT ELEVATION

**DETAIL "A"**

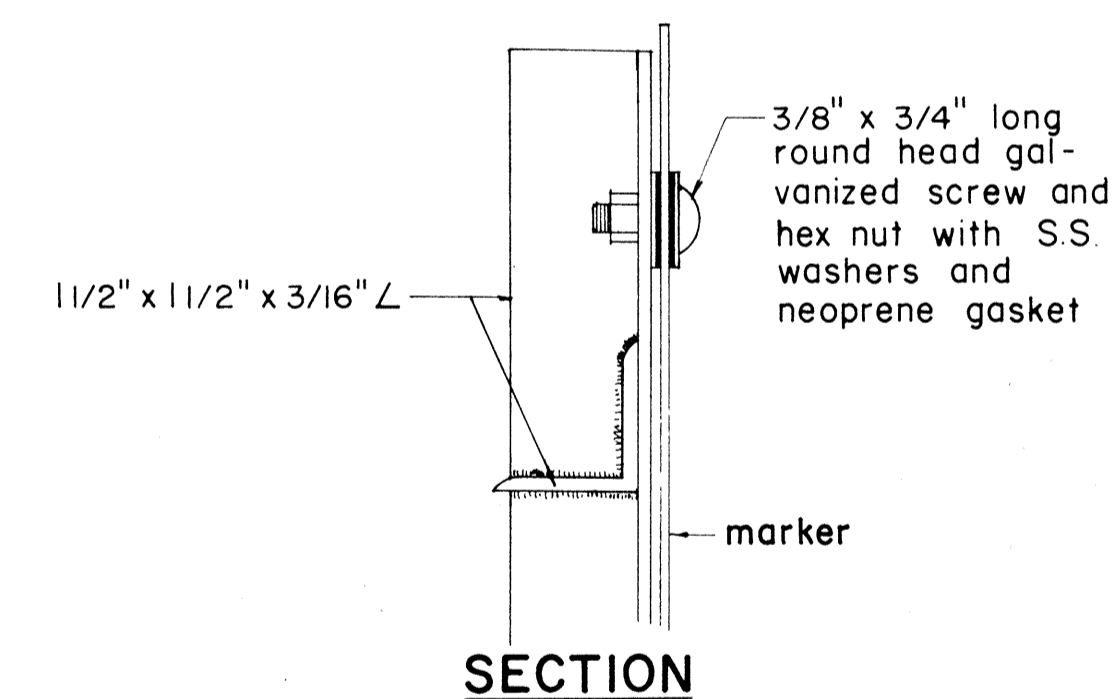


PLAN



ELEVATION

**DETAIL "B"**



SECTION

APPROVAL RECOMMENDED:

*Francis Tanaka* 12/29/69

TRAFFIC ENGINEER DATE

APPROVED:

*[Signature]* 12-30-69

ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Revisions to Route Marker Assemblies.	HT	6/1/72

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

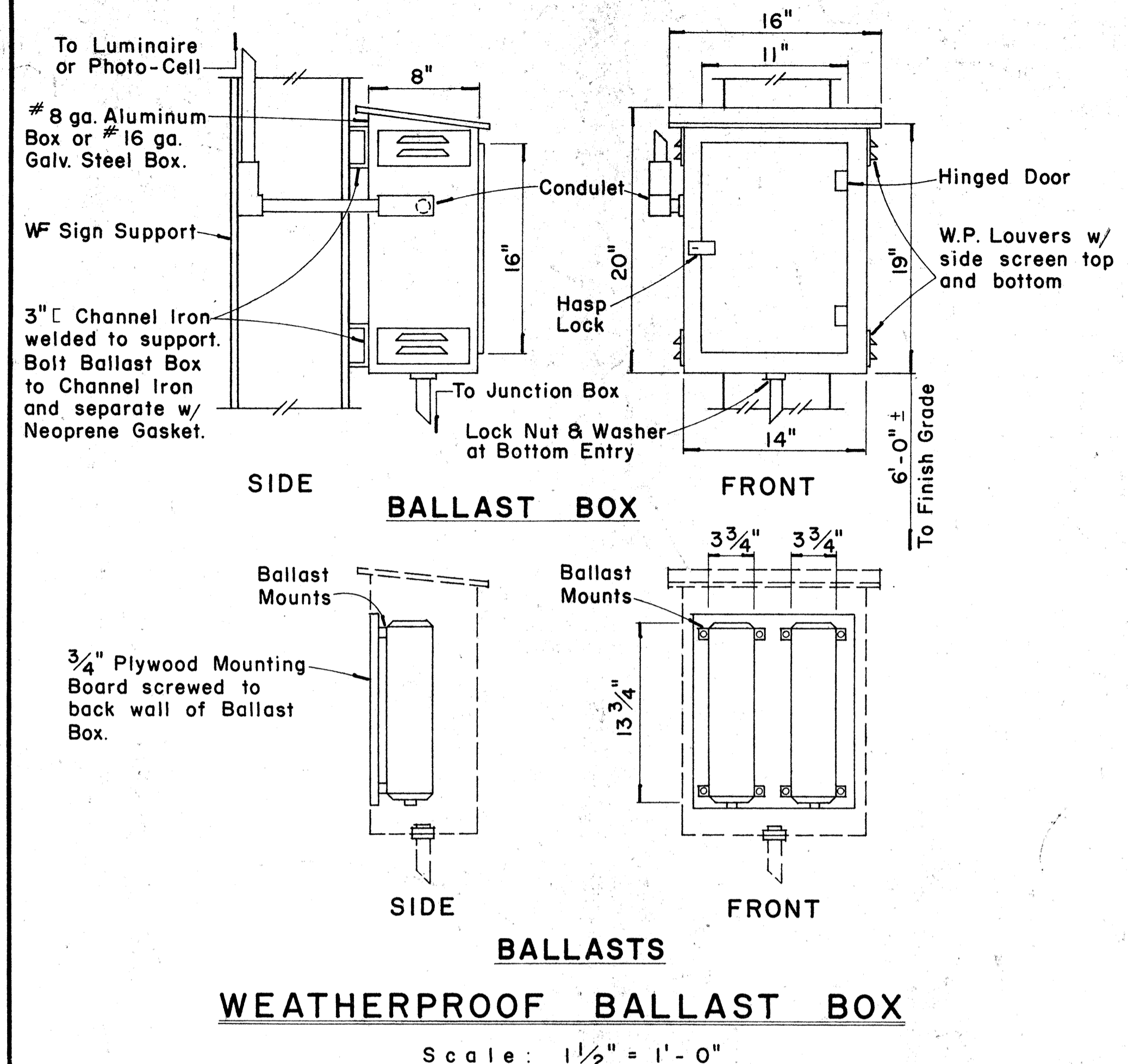
**STANDARD DETAILS  
ROUTE MARKER ASSEMBLIES**

Scale: As Shown

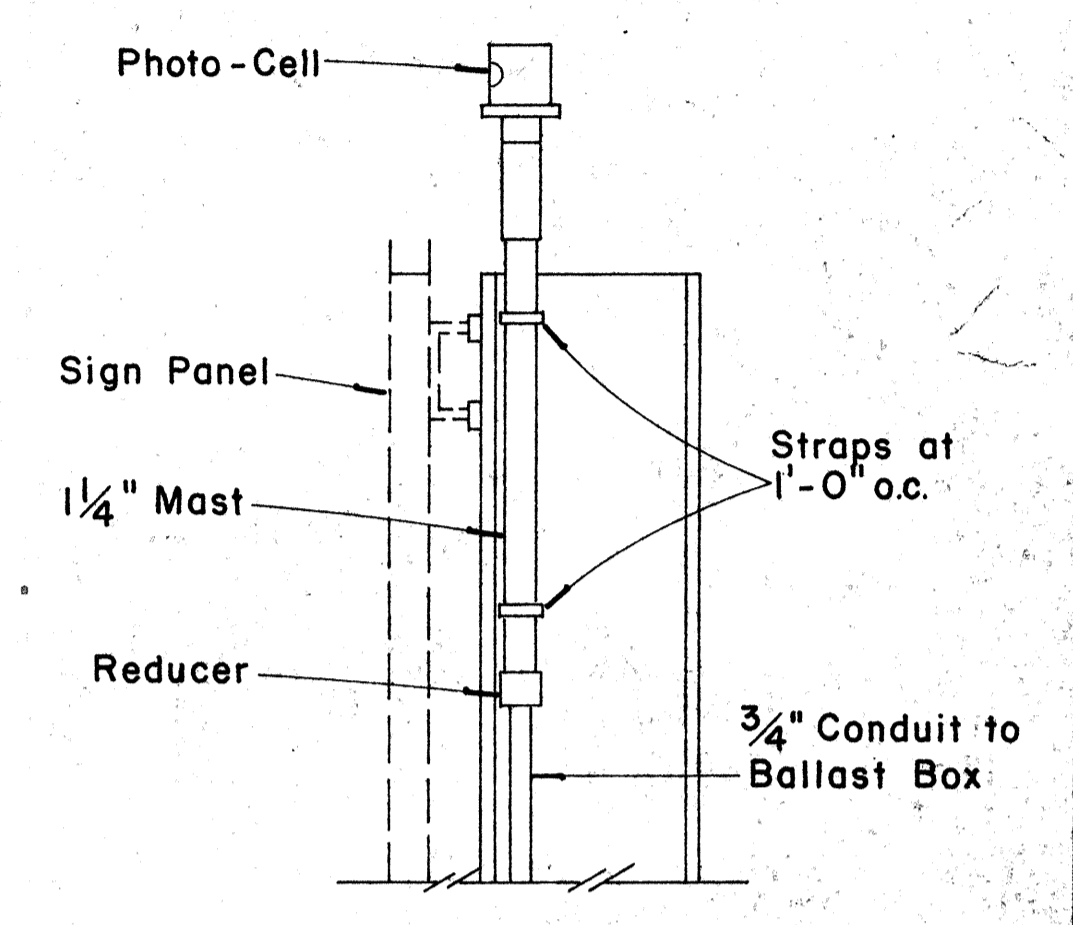
ORIGINAL PLAN  
DATE  
DRAWN BY  
CHECKED BY  
NOTE BOOK  
No.

\* For moment calculations only. Post shall be from top of foundation to top of sign.  
 \*\* For fills with side slopes flatter than 4:1, Minimum Footing Depth shall be 4 1/2 feet.

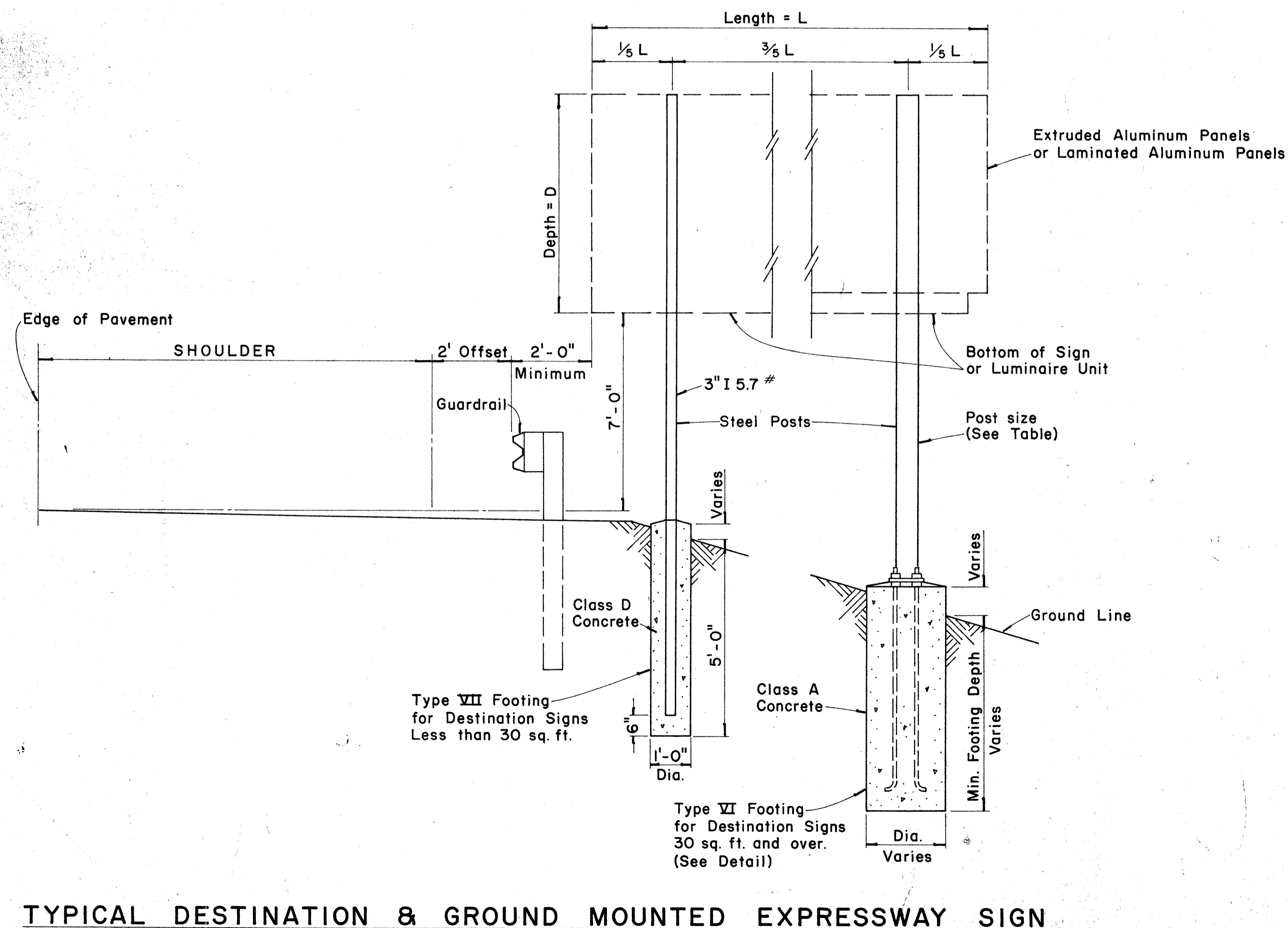
POST SIZE	MAXIMUM SIGN AREA	POST HEIGHT TOP OF FOUNDATION TO CENTER OF SIGN *	DIMENSIONS													ANCHOR BOLT DIA.	MINIMUM FOOTING DEPTH	
			H	J	K	M	N	O	P	S	T	U	V	W	CUT		FILL**	
8 J 10	50 sq. ft.	14'	14"	5"	24"	17 1/4"	1 5/8"	6"	1 1/4"	9"	6"	10"	2"	1"	1 1/8" ø	4 1/2'	4 1/2'	
8 WF 24	90 sq. ft.	21'															5'	
8 WF 35	190 sq. ft.	15'	16 1/2"	6 3/4"	30"	20"	1 3/4"	6"	1 3/8"	11 3/4"	6 1/2"	10"	1 3/4"	1"	1 1/4" ø	6'	7'	
10 WF 45	190 sq. ft.	25'																
10 WF 45	200 sq. ft.	25'																
12 WF 50	230 sq. ft.	25'																
12 WF 50	250 sq. ft.	23'																



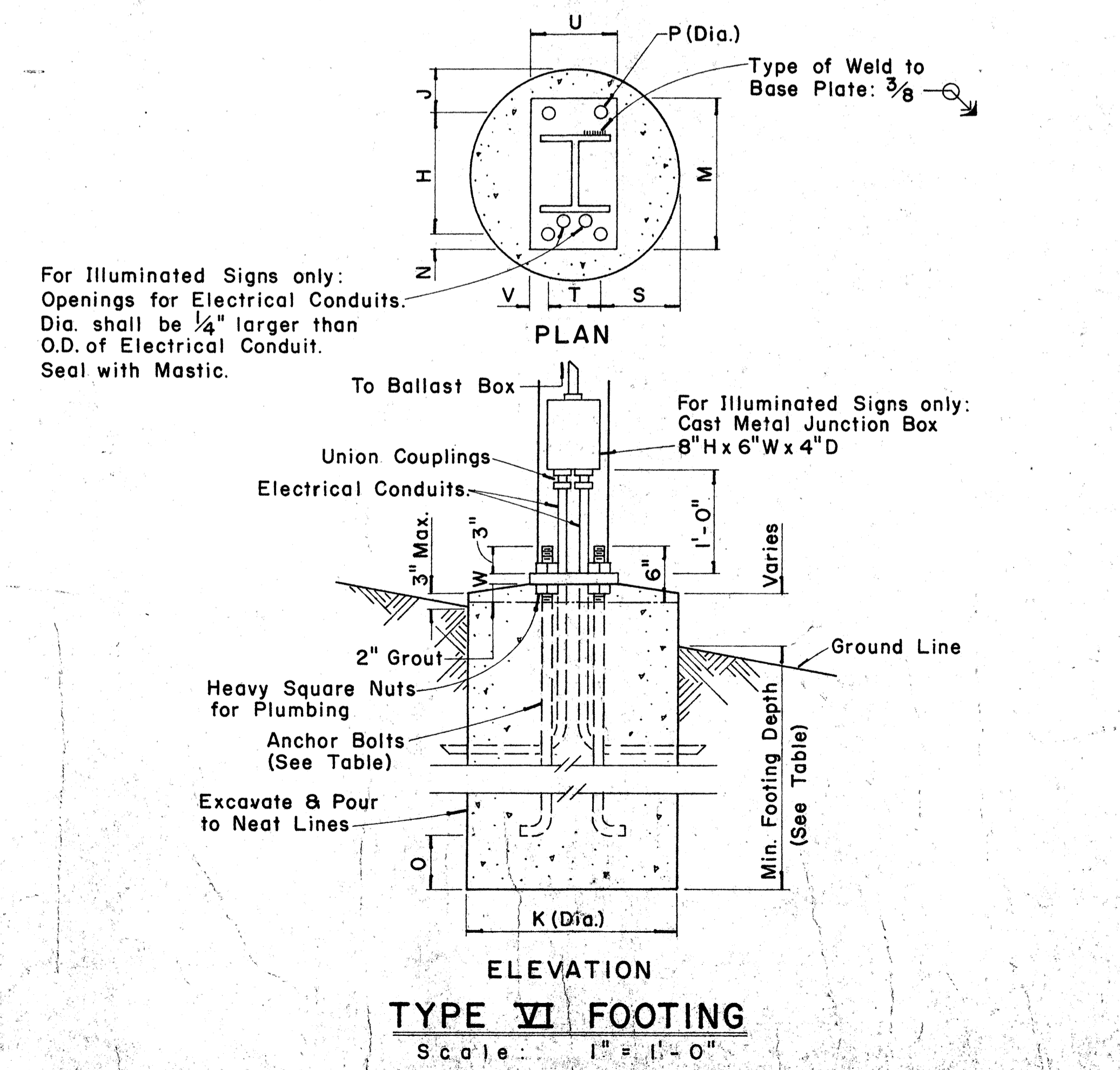
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-11(73)15	1974	129	369



**PHOTO-CELL DETAIL**  
 Scale: 1/2" = 1'-0"



**TYPICAL DESTINATION & GROUND MOUNTED EXPRESSWAY SIGN**  
 Not to Scale



For Illuminated Signs only:  
 Openings for Electrical Conduits.  
 Dia. shall be 1/4" larger than  
 O.D. of Electrical Conduit.  
 Seal with Mastic.

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

APPROVED:  
*July 2, 1970* 12-30-69  
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

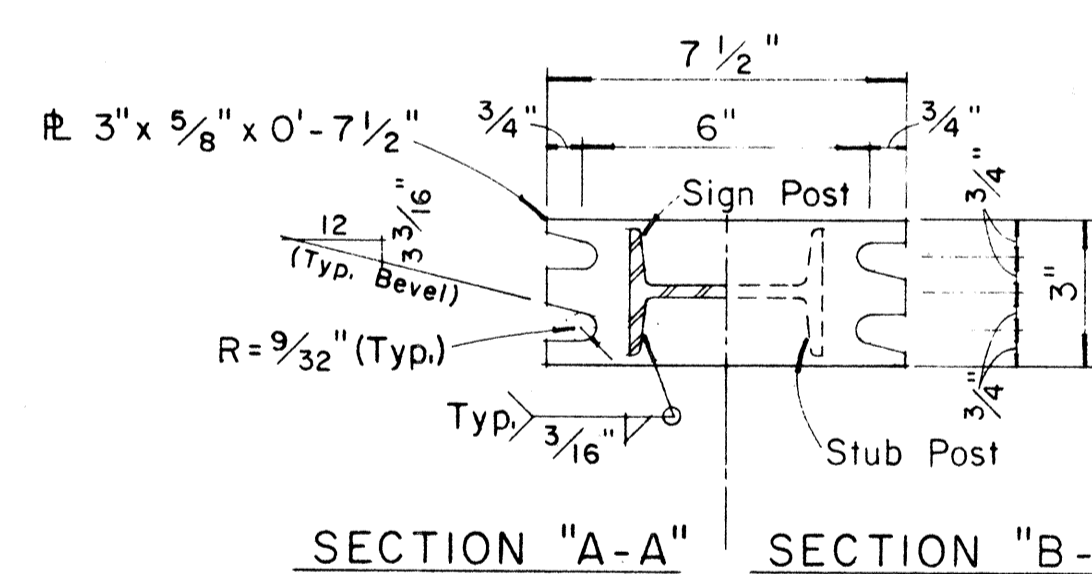
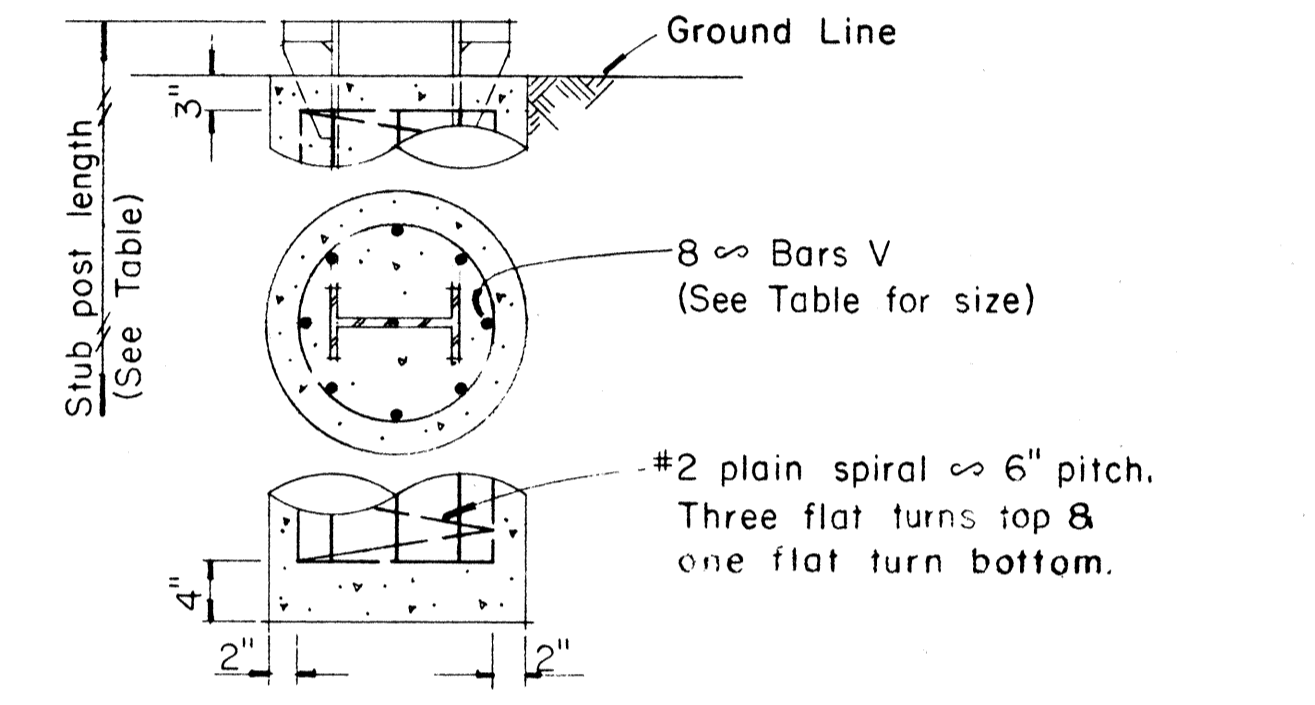
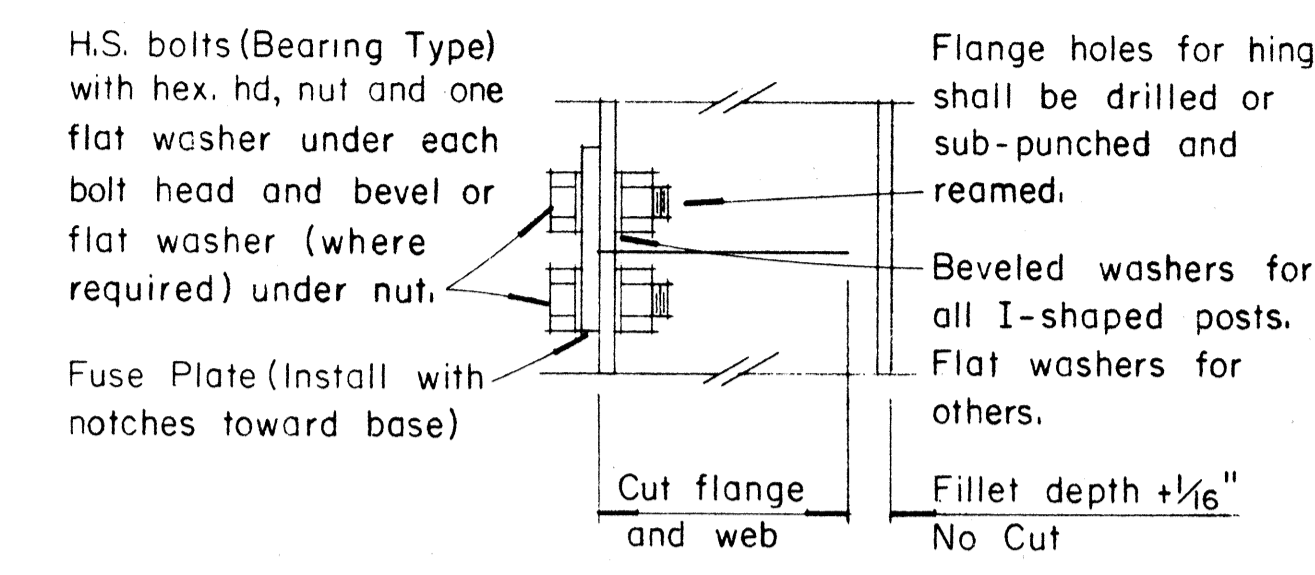
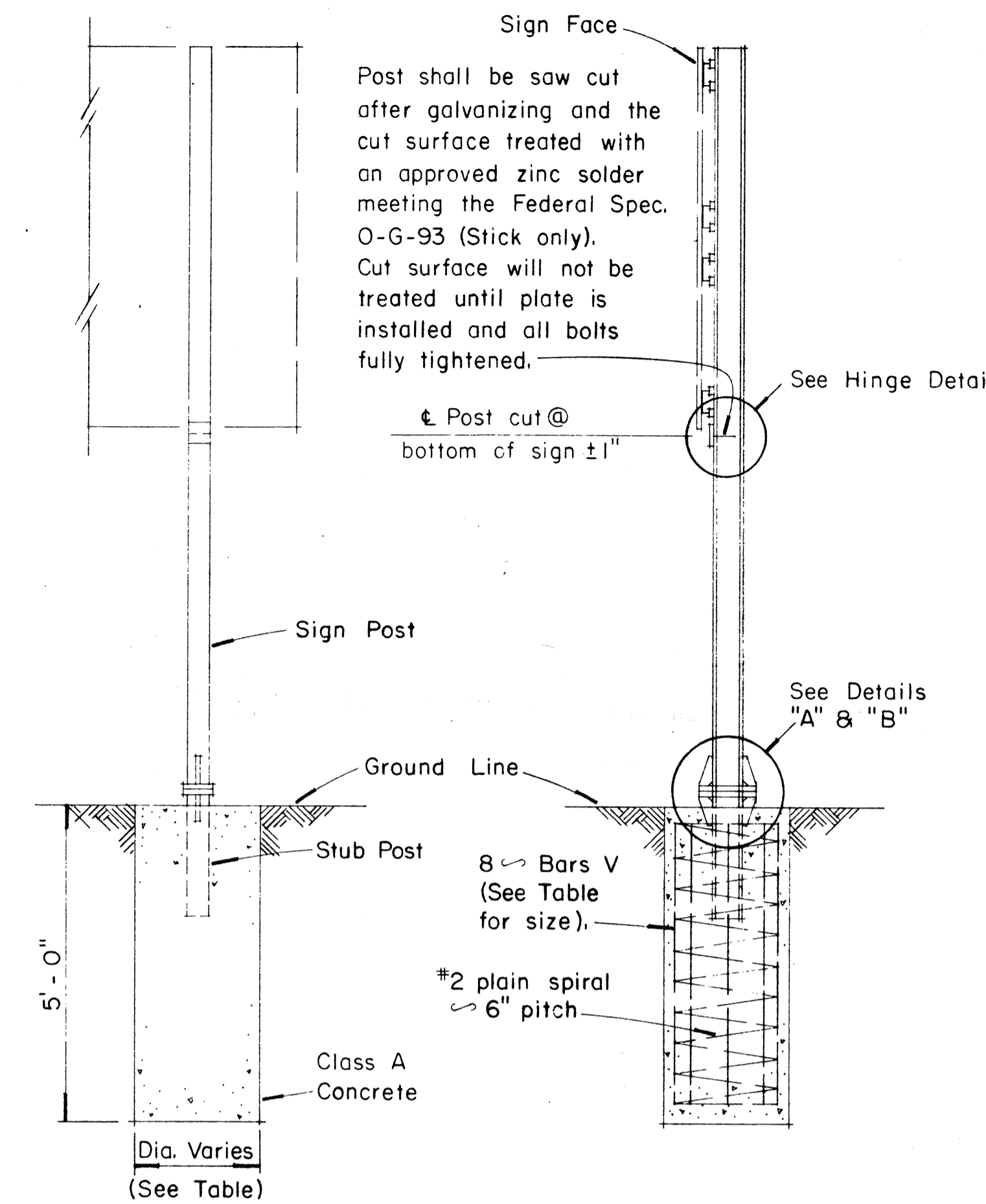
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**STANDARD DETAILS**  
 DESTINATION & GROUND MOUNTED  
 EXPRESSWAY SIGNS

Scale: As Shown  
**SHEET No. 22 OF 26 SHEETS DT 203**

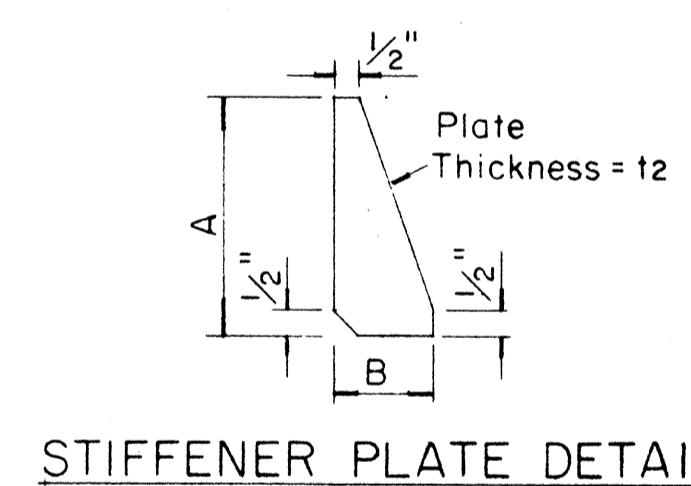
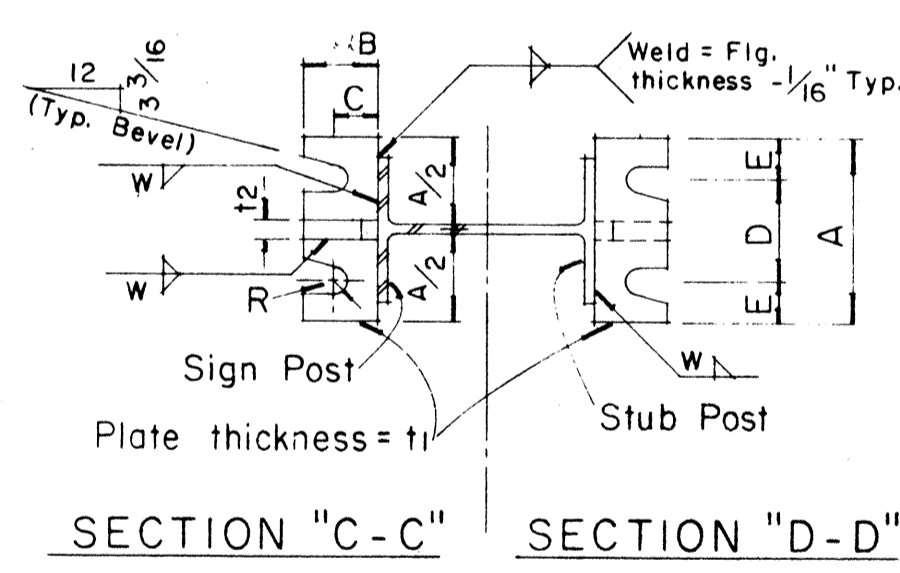
SURVEY PLANNED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 ORIGINAL PLAN \_\_\_\_\_  
 NO. \_\_\_\_\_

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	111-1(73)15	1974	130	369

BASE CONNECTION DATA TABLE											FUSE PLATE DATA TABLE										FOUNDATION DATA				
Post Size	Bolt Size & Torque	A	B	C	D	E	t1	t2	W	R	F	G	H	J	K	L	N	d1	t3	Bolt Dia.	Wt. of each Fuse #	Stub Length	Stub Projection	Footing Diameter	Bars V Size
6 B 8.5											3 5/8"	2"	1 1/8"	4"	2 1/4"	7/8"	1/2"	9/16"	1/4"	1/2"	1.09#	2'-0"	3"	2'-0"	#5
6 B 12	5/8" $\phi$ x 2 3/4" Torque = 450"#	5"	2"	1 1/4"	2 3/4"	1 1/8"	3/4"	1/2"	1/4"	1 1/32"	3 3/4"	2"	1 1/8"	4"	2 1/4"	7/8"	5/8"	1 1/16"	3/8"	5/8"	1.60#	2'-0"	3"	2'-0"	#5
6 B 15.5											4 1/2"	2 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	3/4"	1 3/16"	1/2"	3/4"	3.75#	2'-6"	3"	2'-0"	#6
8 WF 17											4 1/2"	2 1/2"	1 1/4"	5 1/4"	2 3/4"	1 1/4"	3/4"	1 3/16"	1/2"	3/4"	3.27#	2'-6"	3"	2'-0"	#7
8 WF 20											4 7/8"	2 1/2"	1 1/2"	5 1/4"	2 3/4"	1 1/4"	7/8"	1 5/16"	9/16"	7/8"	3.93#	3'-0"	2 1/2"	2'-0"	#8
10 WF 21	3/4" $\phi$ x 3 1/2" Torque = 750"#	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1"	3/4"	5/16"	1 3/32"	5 3/8"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	7/8"	1 5/16"	9/16"	7/8"	4.75#	3'-0"	2 1/2"	2'-0"	#9
10 WF 25											5 3/8"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	7/8"	1 5/16"	9/16"	7/8"	4.79#	3'-0"	2 1/2"	2'-0"	#10
12 WF 27											5 3/8"	3"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	7/8"	1 5/16"	9/16"	7/8"	5.42#	3'-0"	2 1/2"	2'-0"	#11
3 I 5.7	1/2" $\phi$ x 2 1/2" Torque = 200"#	SEE DETAIL "A"									3 1/8"	1 1/2"	1 1/8"	2 5/8"	1 1/2"	9/16"	1/2"	9/16"	1/4"	1/2"	0.64#	1'-6"	3 1/2"	1'-6"	#5
4 I 7.7		SEE DETAIL "A"									3 1/8"	1 1/2"	1 1/8"	2 3/8"	1 1/2"	9/16"	1/2"	9/16"	1/4"	1/2"	0.64#	1'-6"	3 1/2"	1'-6"	#5



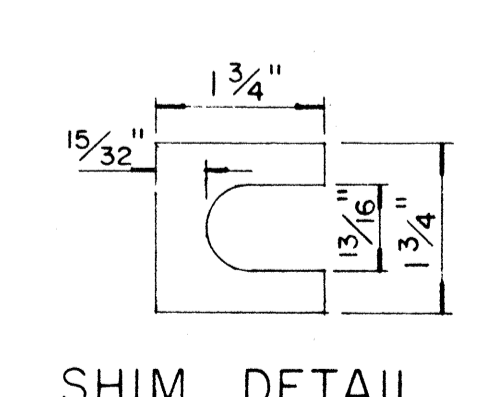
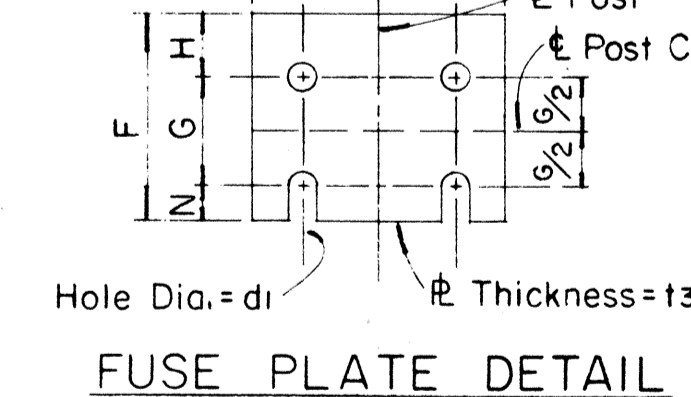
NOTE:  
Sections shown are for installations on right shoulder and in gore. Reverse plate slot bevels for installations on left shoulder.



GENERAL NOTES

- Design conforms with AASHTO Specifications for the design and Construction of Structural Supports for Highway Signs.
- Materials and Fabrication shall conform to the requirements of the Standard Specifications and Special Provisions.
- All holes shall be drilled. All plate cuts shall preferably be saw cuts, however; flame cutting will be permitted provided all edges are ground. Metal projecting beyond the plane of the plate face will not be tolerated.
- Tighten the high strength bolts in the base connection only to the torque shown, do not overtighten. All bolts other than high strength bolts shall conform to ASTM A 307, Class A.
- All structural steel, bolts, nuts and washers shall be galvanized as per the Standard Specifications and Special Provisions. Structural steel to be galvanized after fabrication except as noted.
- Structural steel shall conform with with the requirements of ASTM A 441
- Galvanizing of all posts shall be projection above concrete plus 6" minimum.
- All friction fuse bolts shall be tightened in the shop following a method approved by the Engineer. Tightening shall be to such a degree as to obtain the following minimum residual tension in each bolt:

Bolt Size	Min. Tension	Bolt Size	Min. Tension
1/2" $\phi$	12050 Lbs.	3/4" $\phi$	28400 Lbs.
5/8" $\phi$	19200 Lbs.	7/8" $\phi$	36050 Lbs.



Furnish 2  $\phi$ .012"  $\pm$  thick and 2  $\phi$ .032"  $\pm$  thick shims per post. Shims shall be fabricated from brass shim stock or strip conforming to A.S.T.M.-B 36.

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

APPROVED:  
*John S. Schell* 12-30-69  
ASSISTANT CHIEF, ENGINEERING DATE

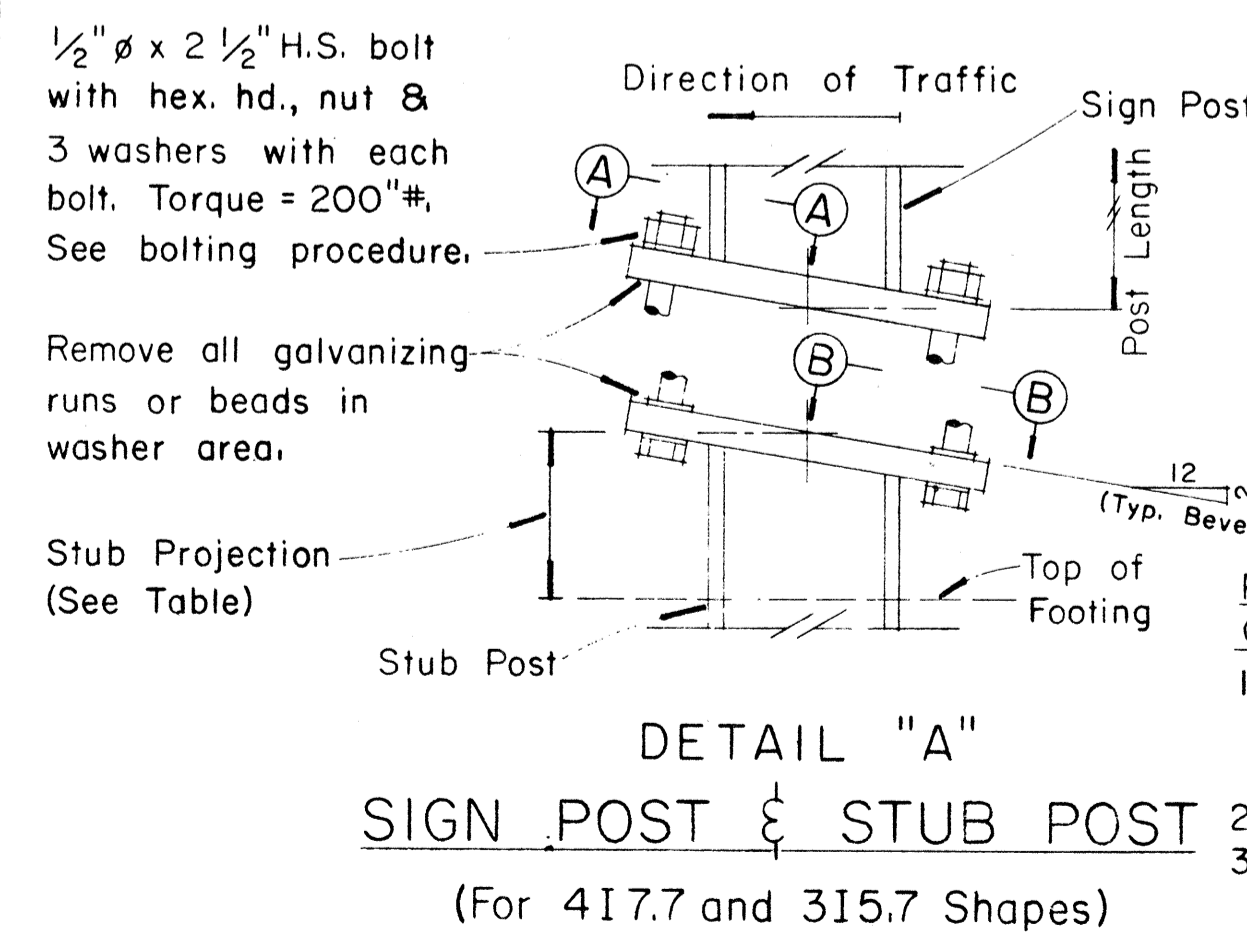
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
**BREAK-AWAY SIGN SUPPORTS**  
**FOR**  
**GROUND MOUNTED GUIDE SIGNS**

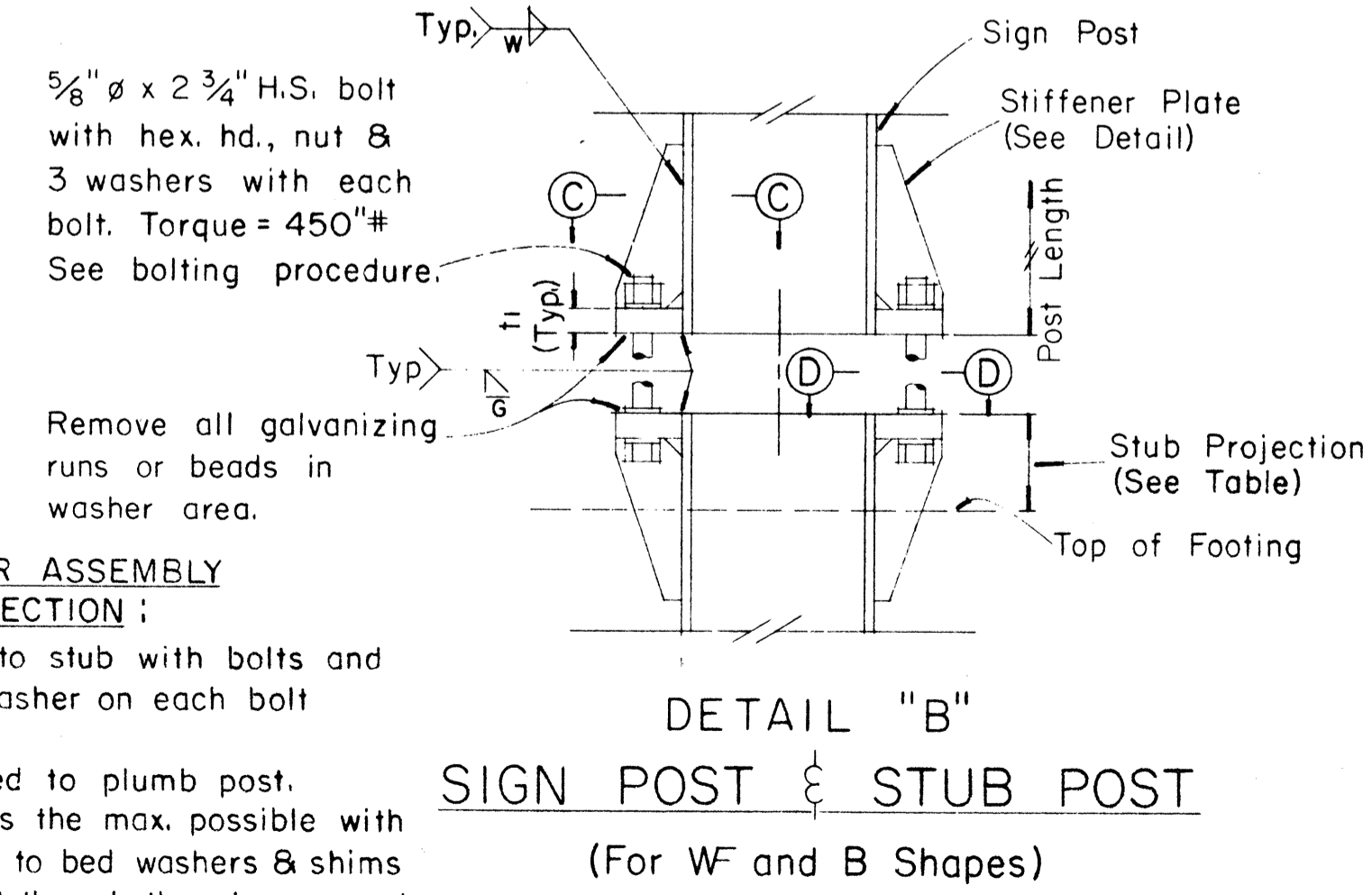
Not to Scale

DATE  
DESIGNED BY  
CHECKED BY  
QUANTITIES BY  
FRACED BY  
PLAN  
NOTED BY  
ORIGINAL



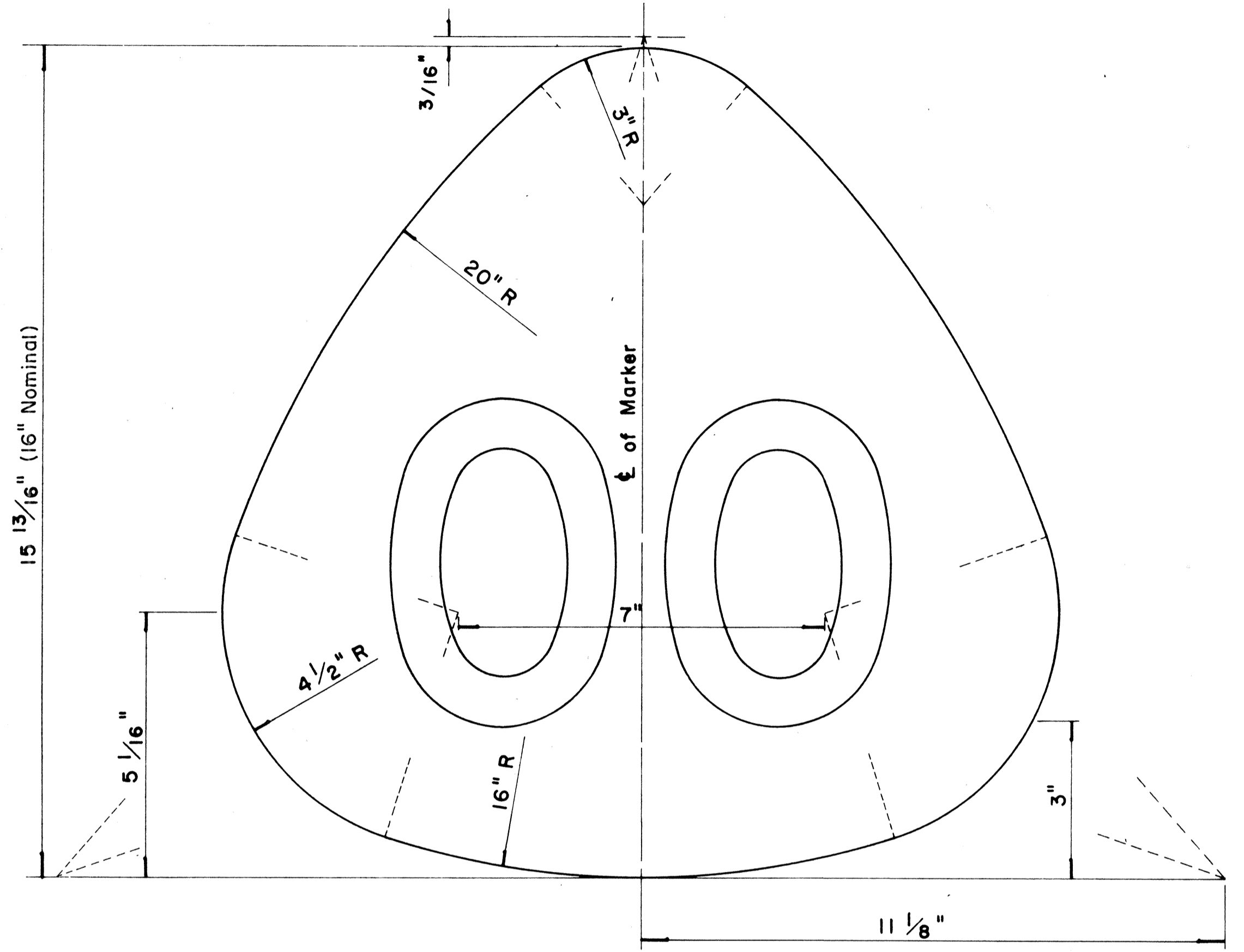
PROCEDURE FOR ASSEMBLY OF BASE CONNECTION:

- Assemble post to stub with bolts and with one flat washer on each bolt between plates.
- Shim as required to plumb post.
- Tighten all bolts the max. possible with 12" to 15" wrench to bed washers & shims and to clean bolt threads then loosen each bolt in turn & retighten bolts in systematic order to prescribed torque. (See Table)
- Burr threads at junction with nut using a center punch to prevent nut loosening.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(73)15	1974	131	369

MARKER SIZE	MULTIPLY DIMENSIONS BY	NUMERAL SIZE
		2 Digit - Series D 3 Digit - Series C
16"	1	6"
21"	1.3	8"
32"	2.0	12"
42"	2.63	16"



**STATE ROUTE MARKER  
FOR GUIDE SIGNS**

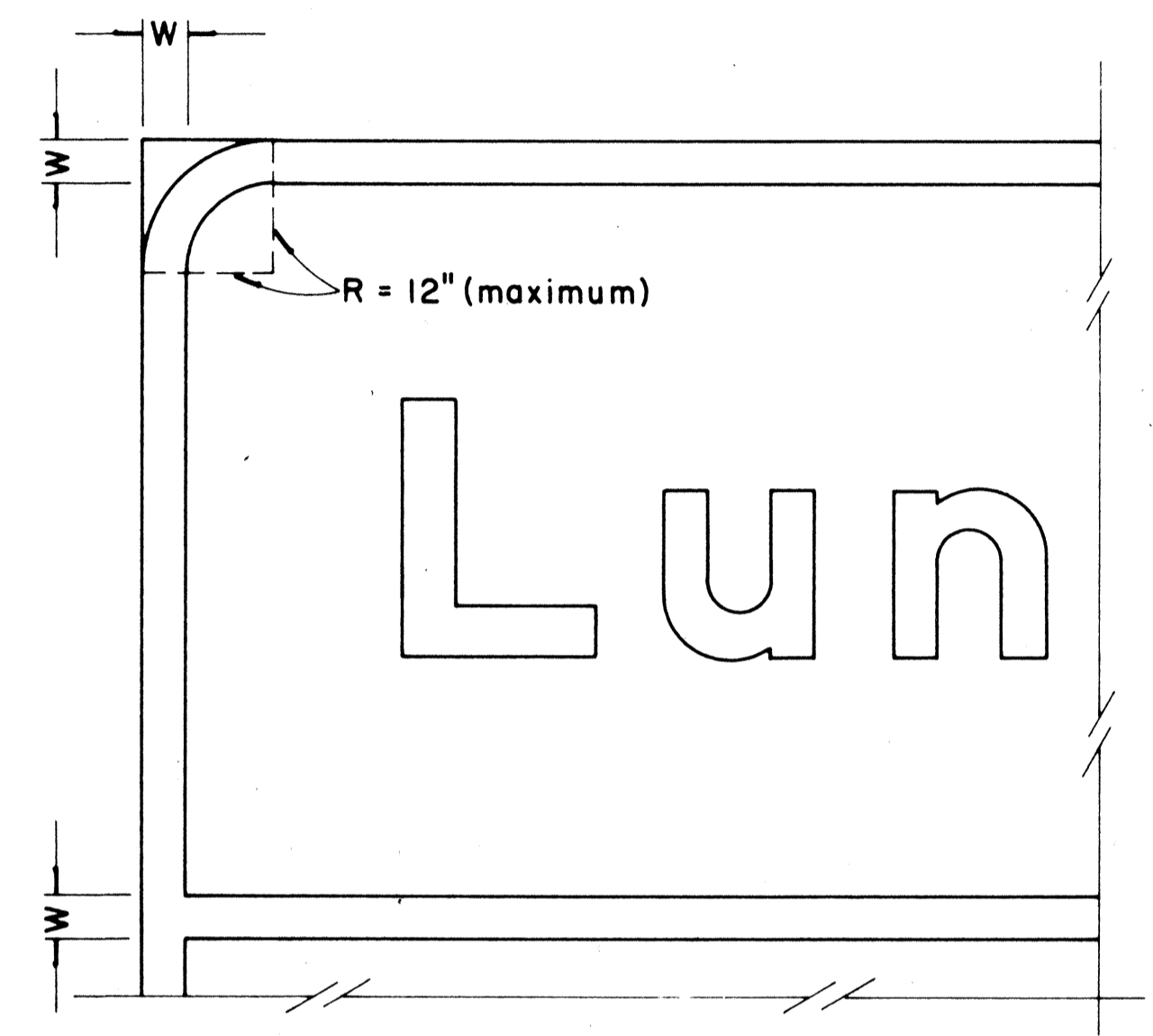
Scale: Half Size

**NOTE :**

1. State Route Markers on Guide signs shall have black numerals on a white reflectorized background mounted on a flat aluminum cut-out.
2. Numerals shall conform to the FHWA publication "Standard Alphabets for Highway Signs," 1966.
3. Cut-outs shall be fastened on sign panel with aluminum blind rivets. See Standard Specifications.
- \* 4. The 16" State Route Marker shall be used only with the Construction Identification sign.

DATE	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

RADII 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 GUIDE SIGNS**

Not to Scale

**NOTE:**

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

APPROVAL RECOMMENDED:  
*Eishi Tanaka* 4/11/72  
 TRAFFIC ENGINEER DATE

APPROVED:  
*Shuji S. Sakai* 4/12/72  
 ASSISTANT CHIEF, ENGINEERING DATE

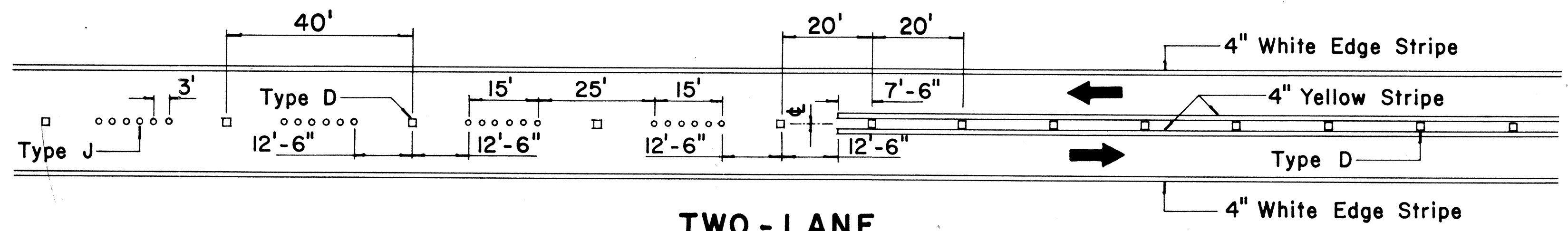
NO	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 209 Approved 12-30-69	N.C.	4/12/72

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

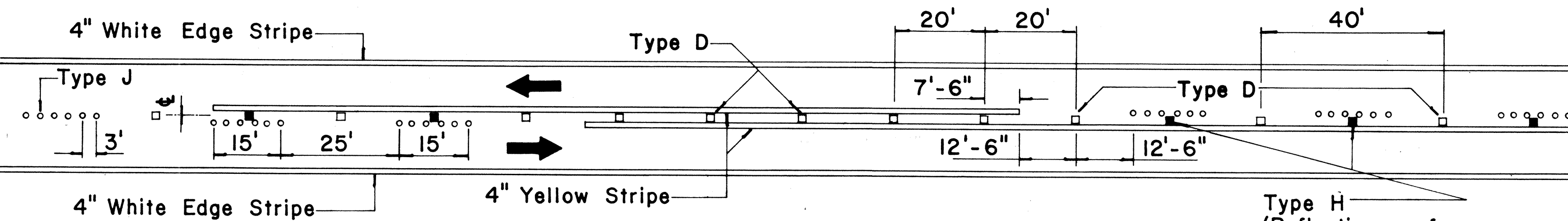
**STANDARD DETAILS  
STATE ROUTE MARKER  
AND BORDER DETAIL  
FOR GUIDE SIGNS**

Scale: As Shown

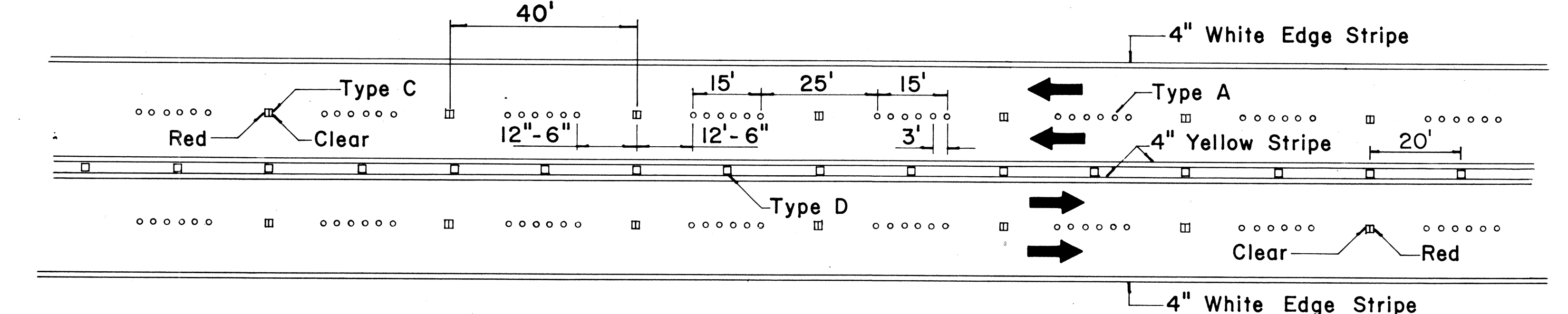
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHI-1(13)15	1974	132	369



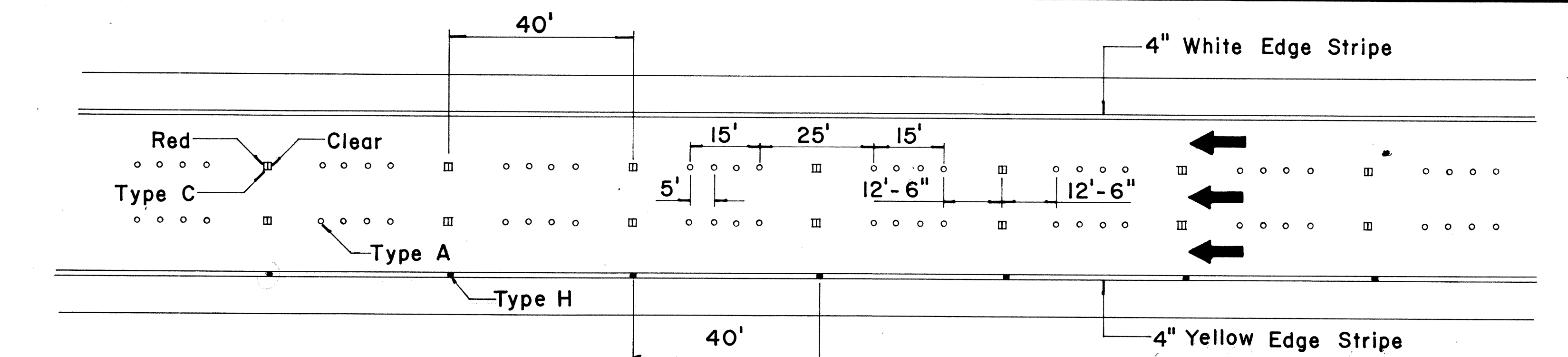
**TWO - LANE  
PASSING PERMITTED AND PASSING PROHIBITED**



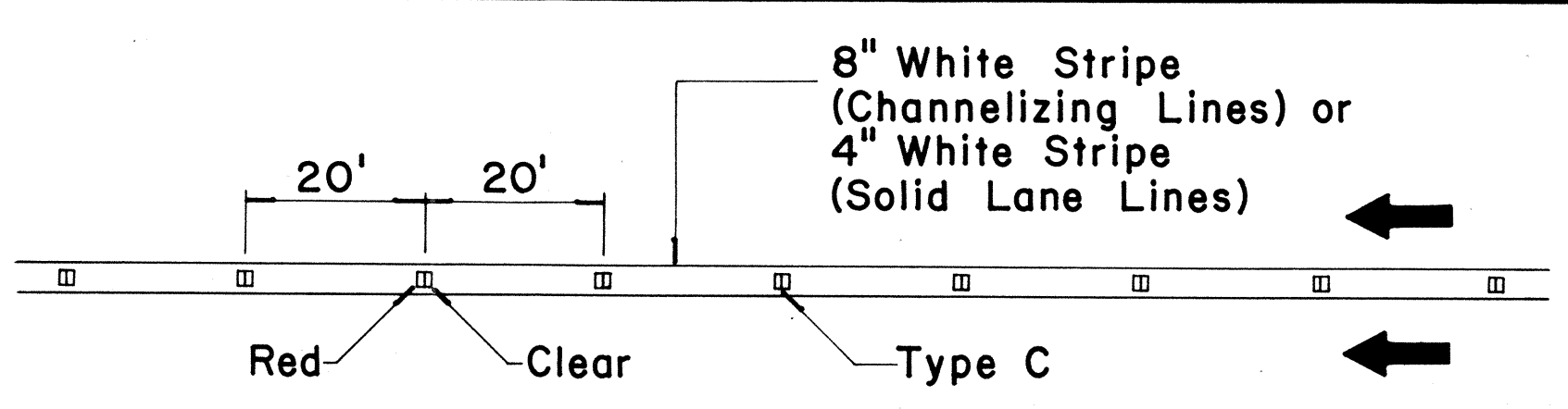
**TWO - LANE  
PASSING PROHIBITED ZONES**



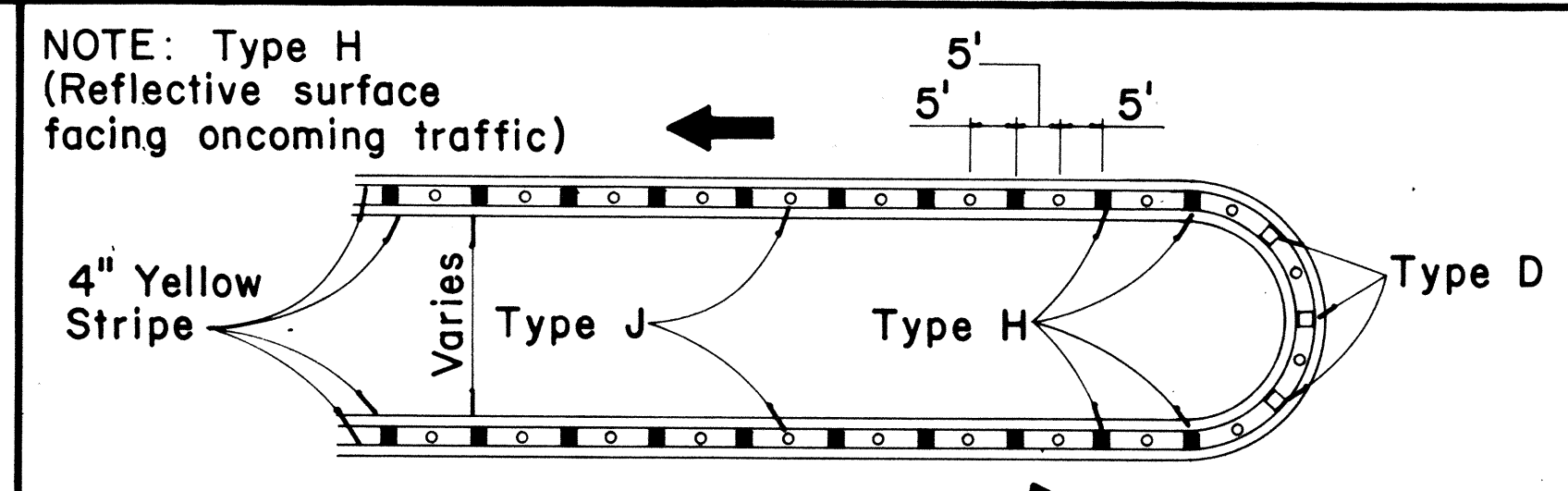
**MULTI - LANE  
LANE LINES AND CENTER LINE**



**FREEWAY LANE LINES**



**CHANNELIZING LINES  
OR SOLID LANE LINES**



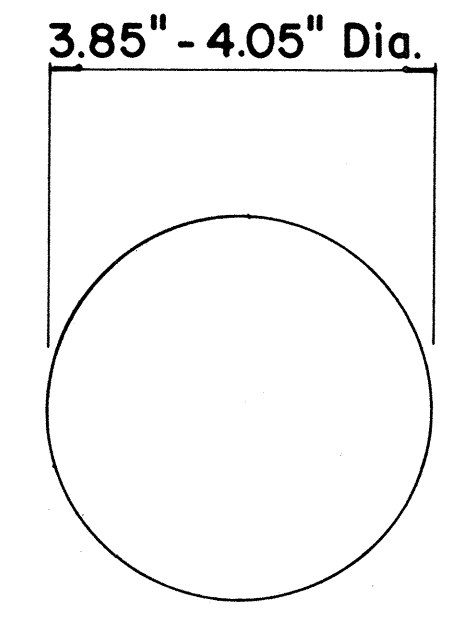
**MEDIAN NOSE DELINEATION**

TWO - LANE

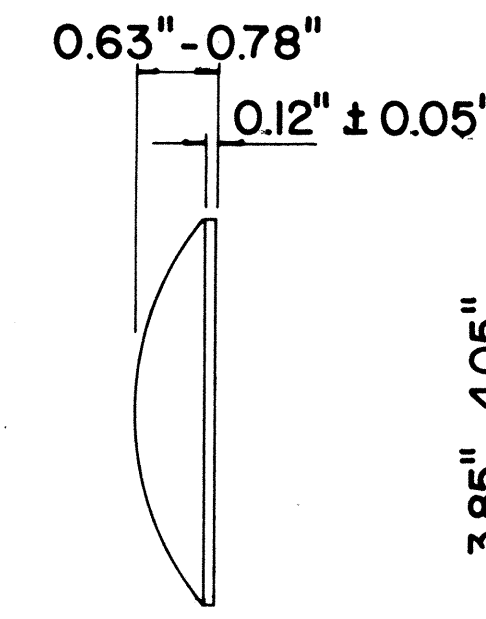
MULTI - LANE

FREEWAY

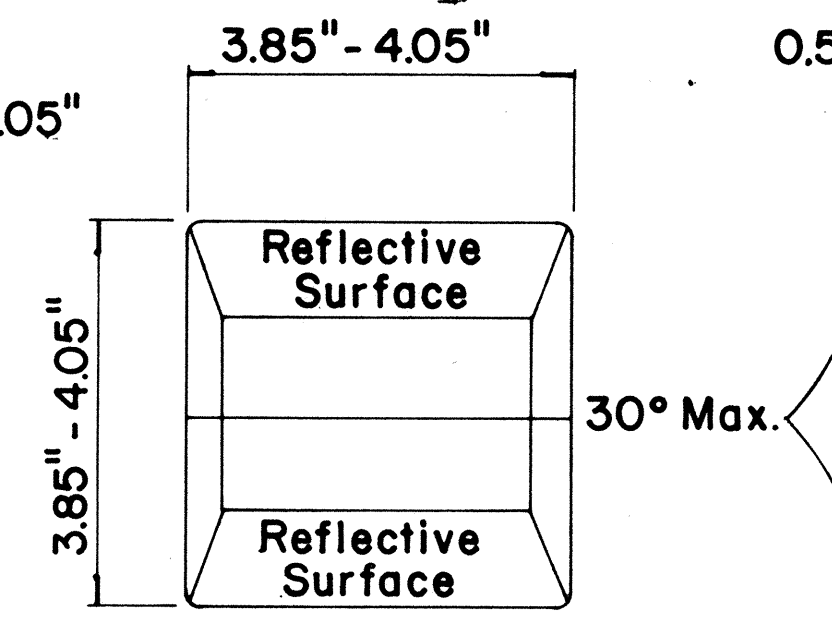
MISCELLANEOUS



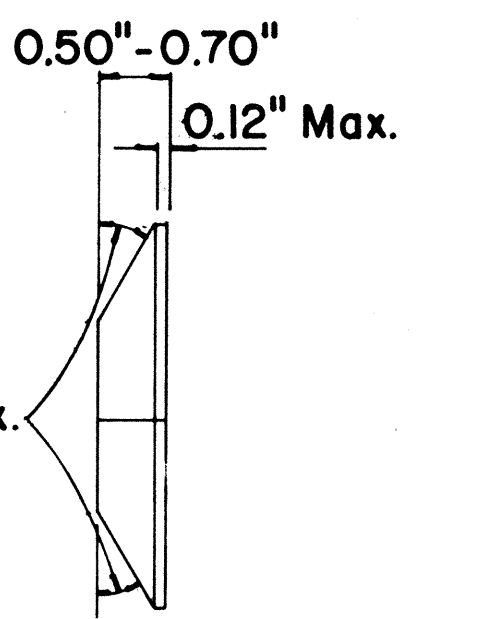
**TYPE A  
NON - REFLECTIVE WHITE MARKER**



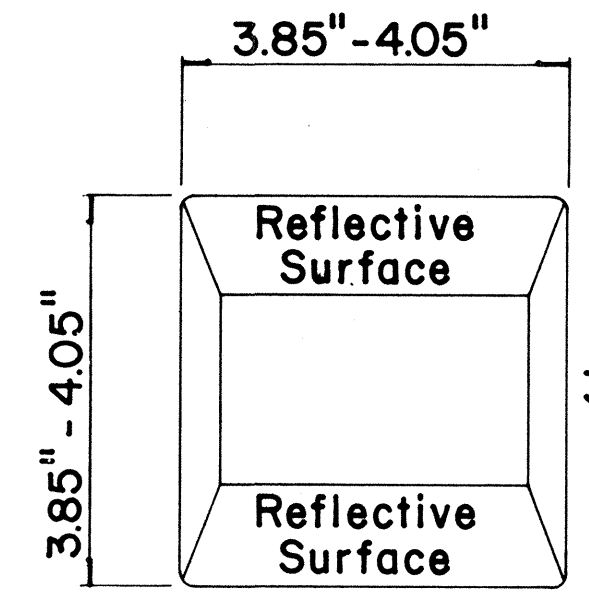
**TYPE J  
NON - REFLECTIVE YELLOW MARKER**



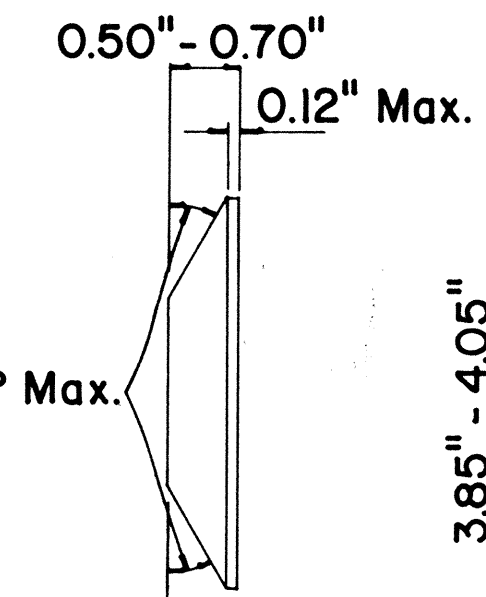
**TYPE C  
RED - CLEAR REFLECTIVE MARKER**



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



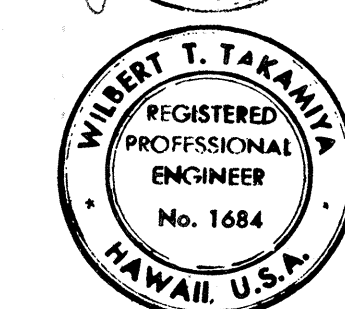
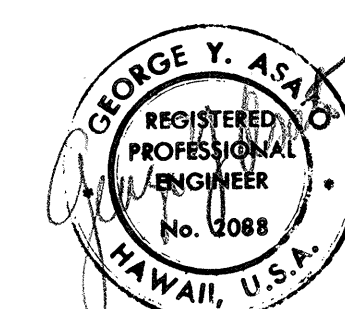
**TYPE D  
TWO - WAY YELLOW REFLECTIVE MARKER**



**GENERAL NOTES**

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

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



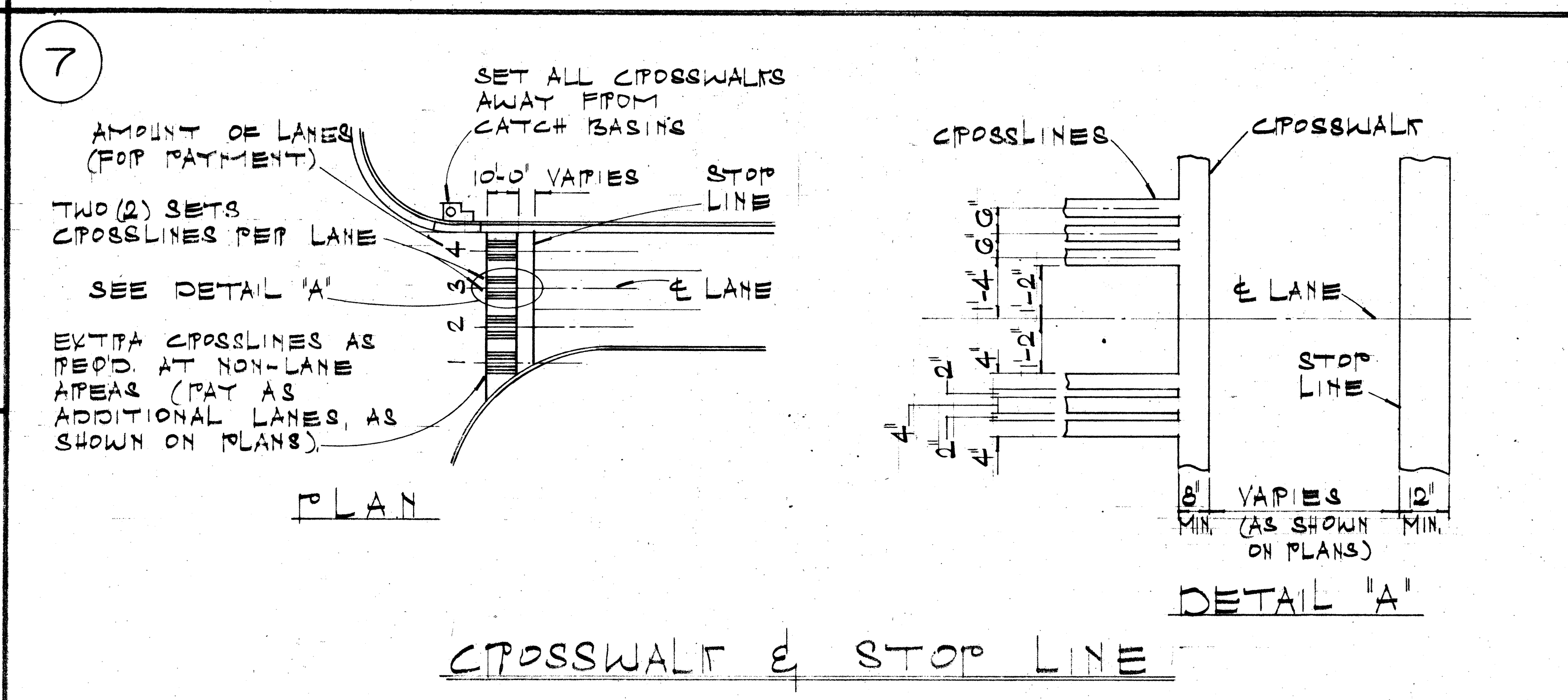
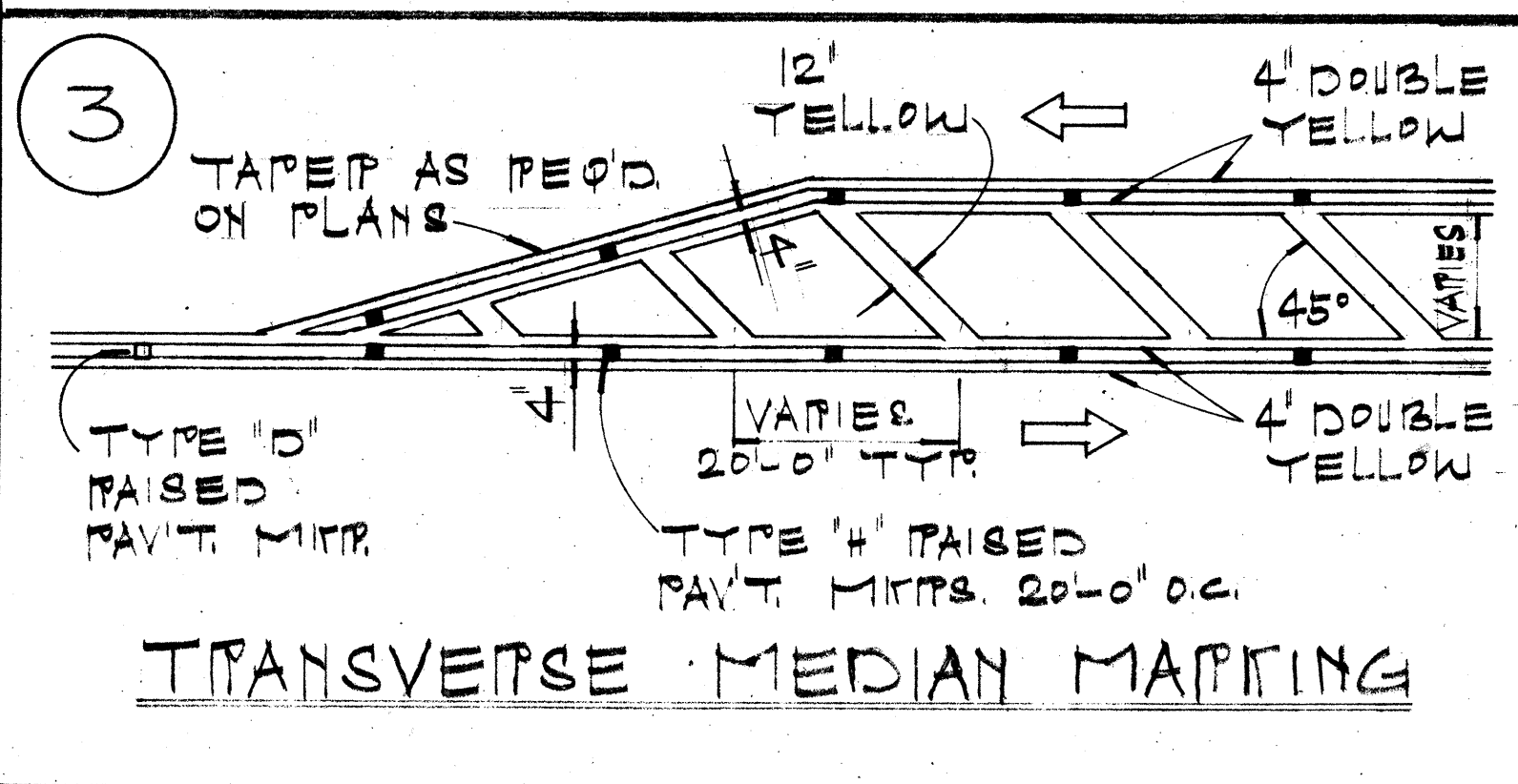
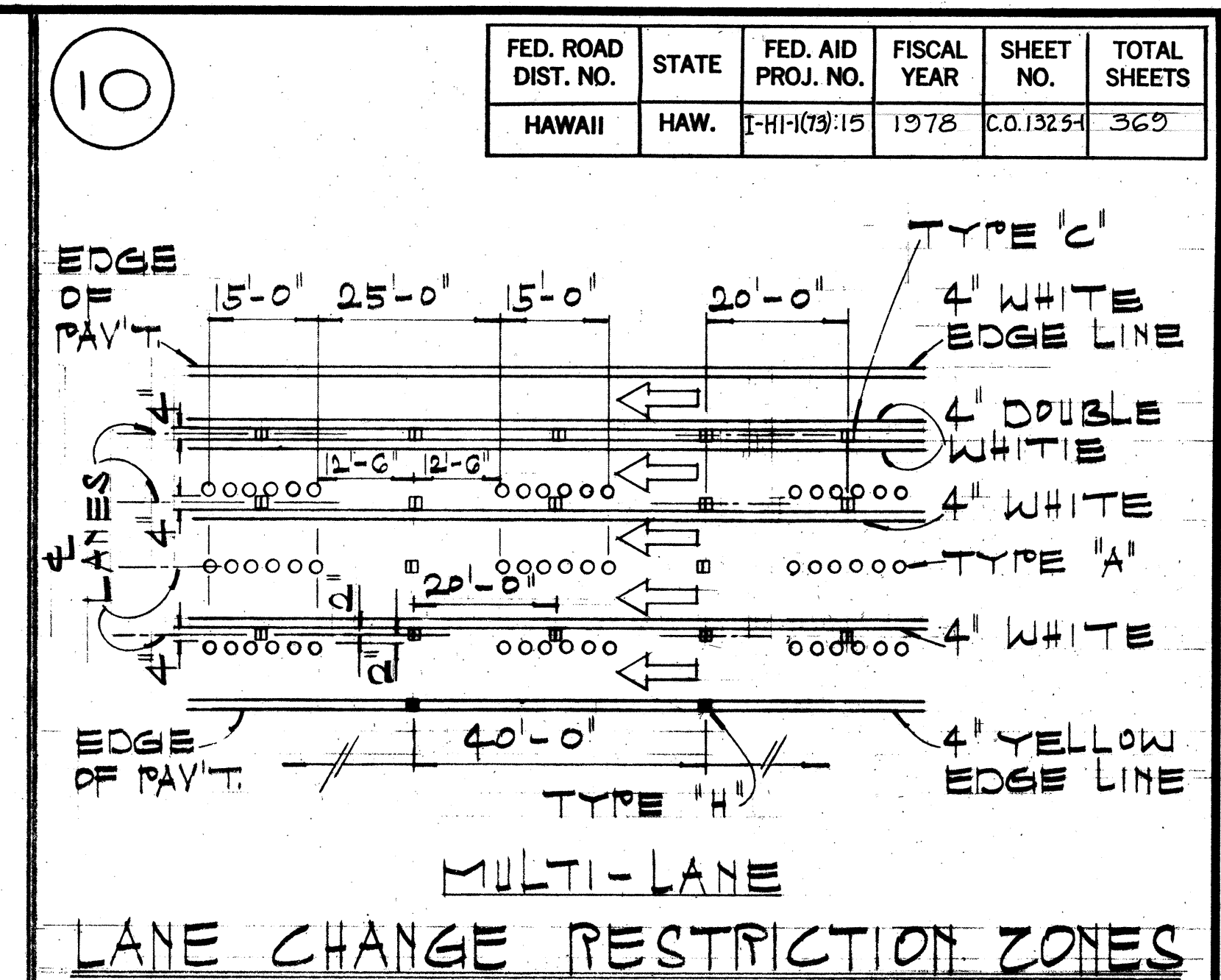
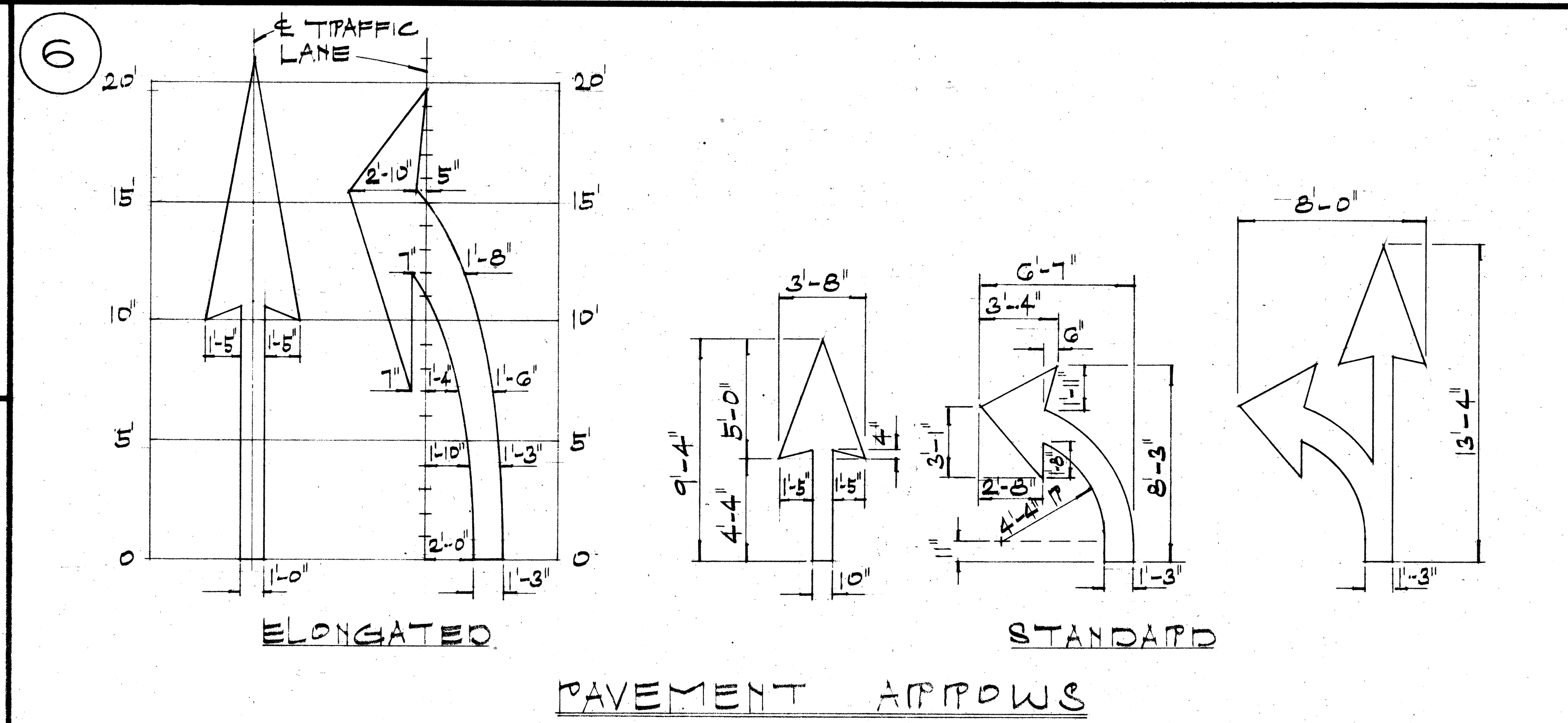
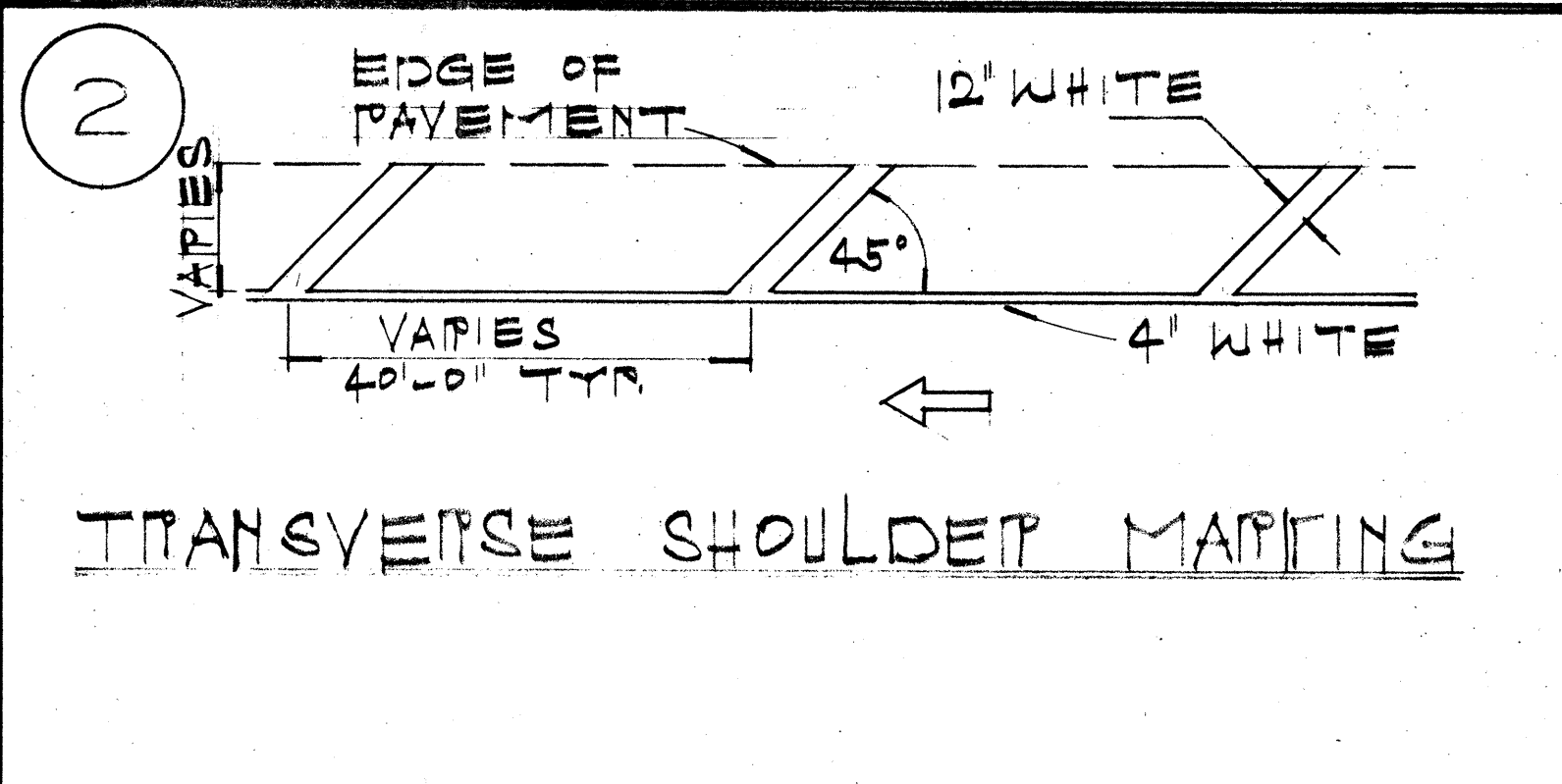
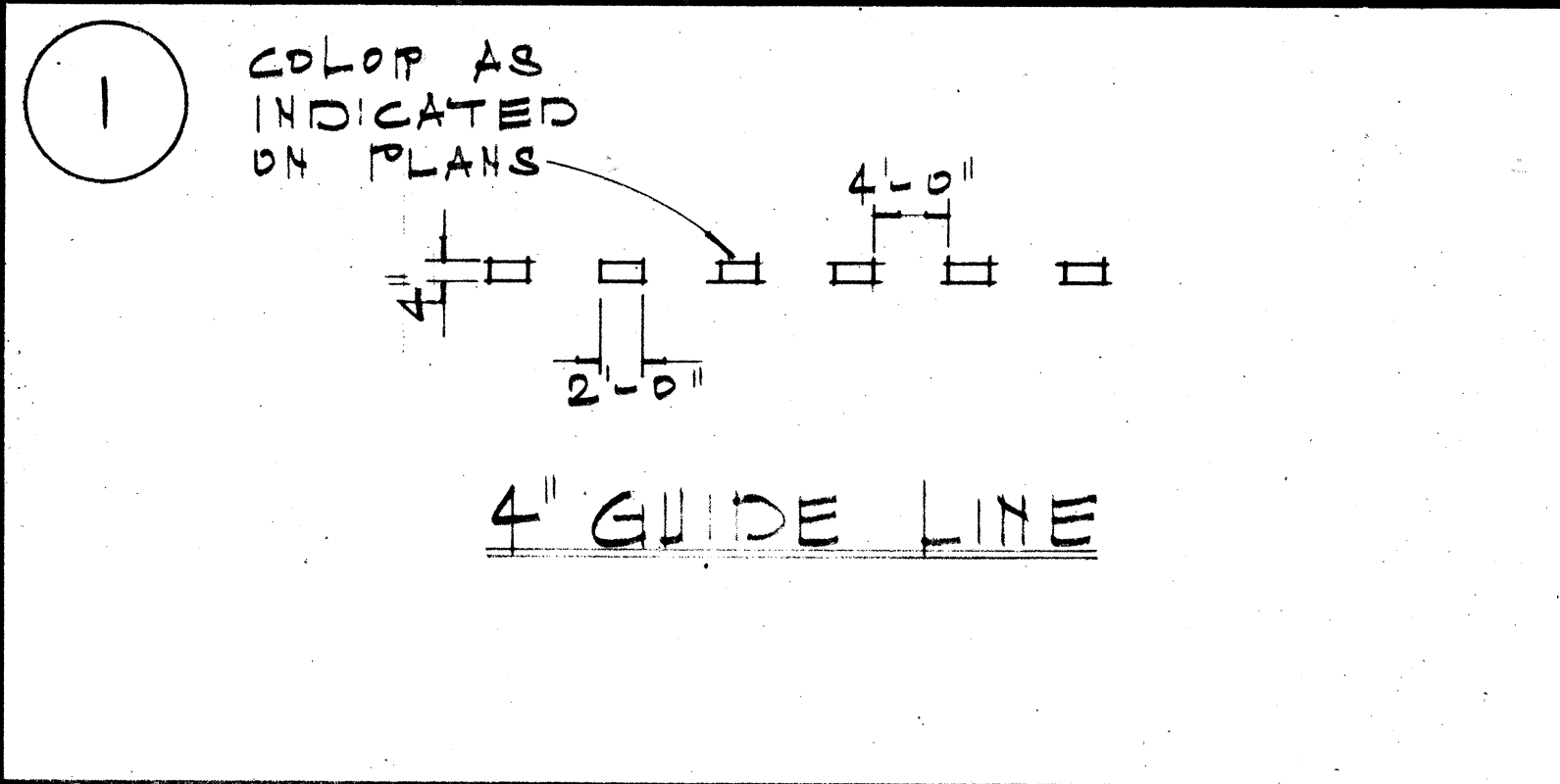
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

TYPICAL DETAILS  
RAISED PAVEMENT MARKERS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

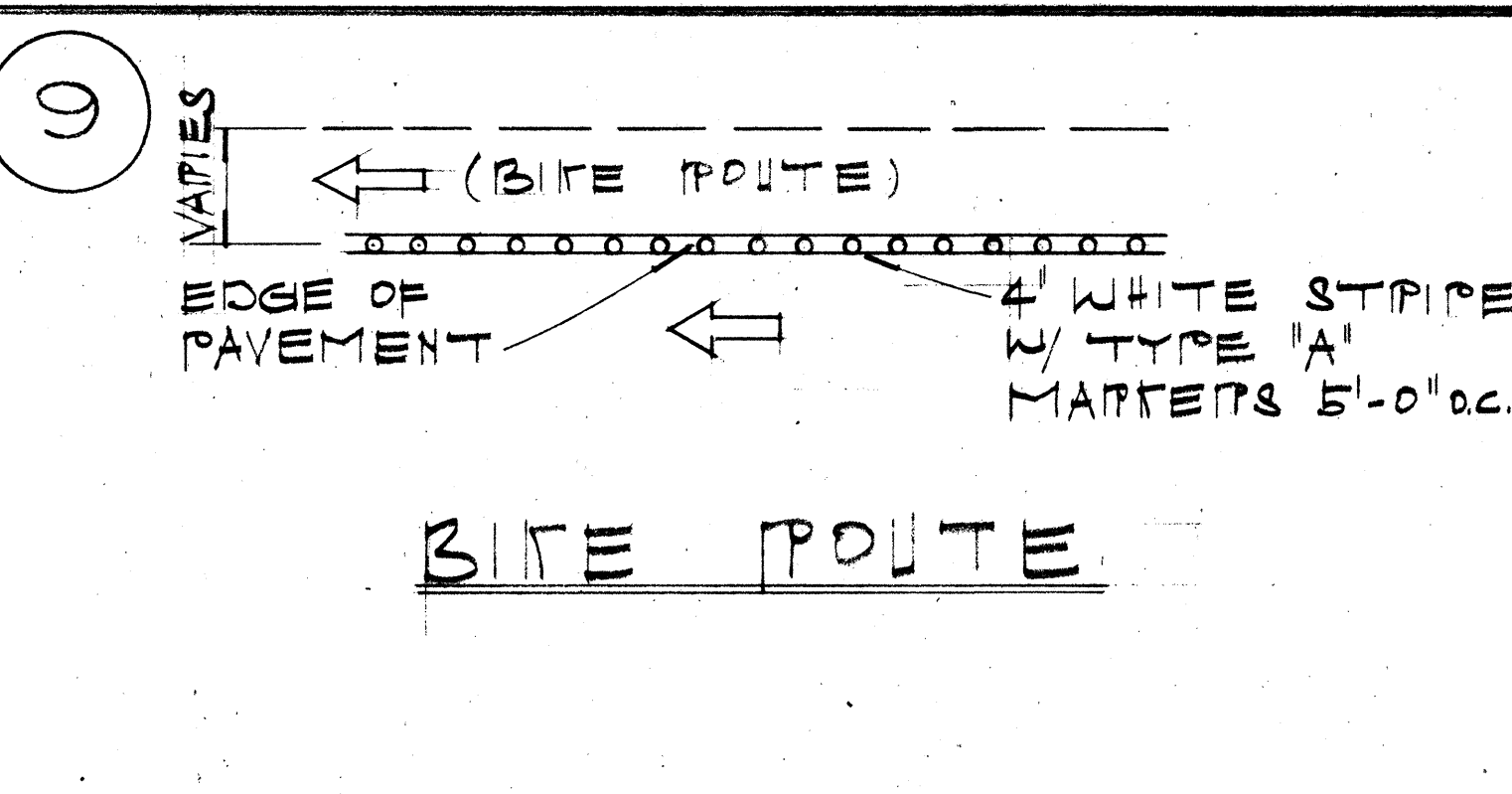
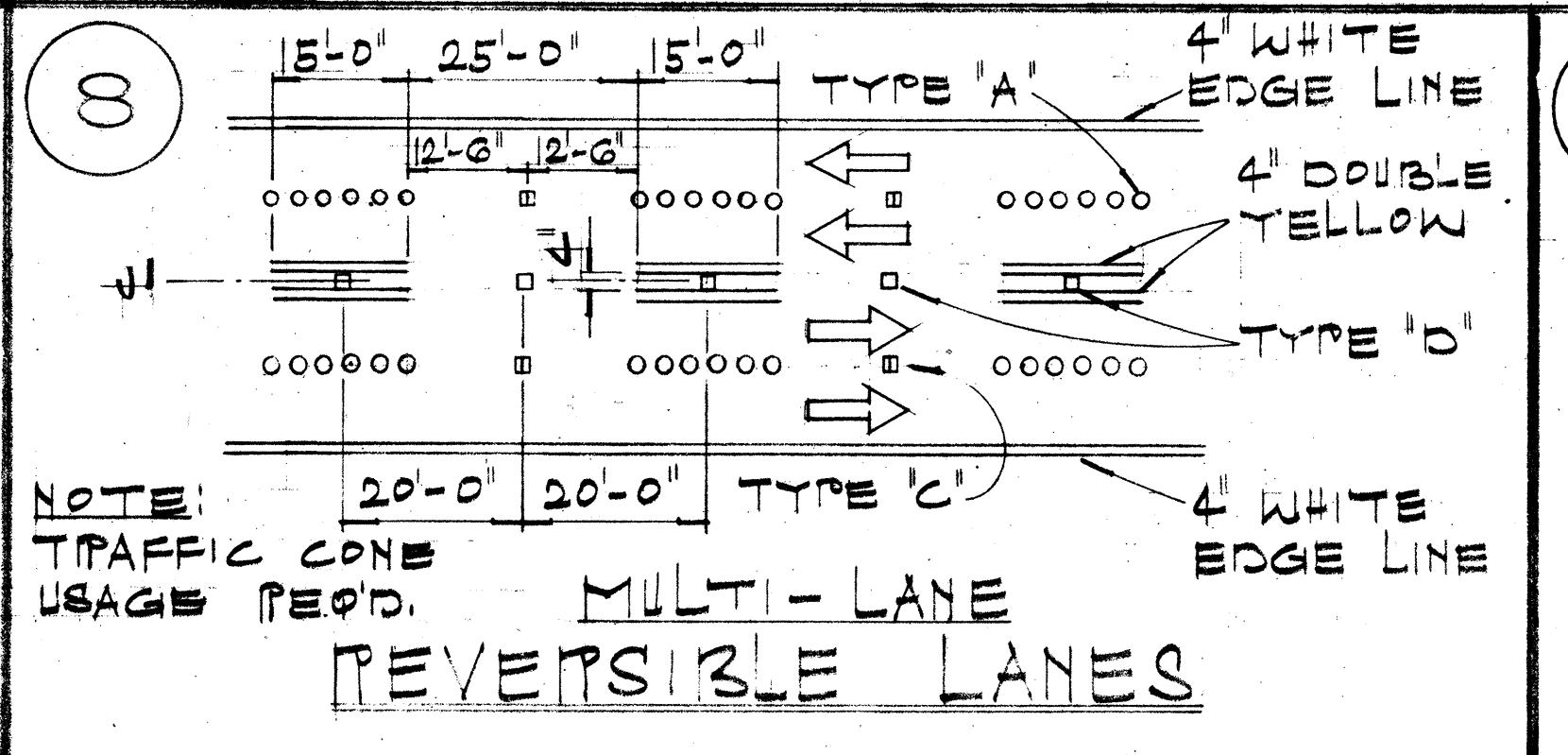
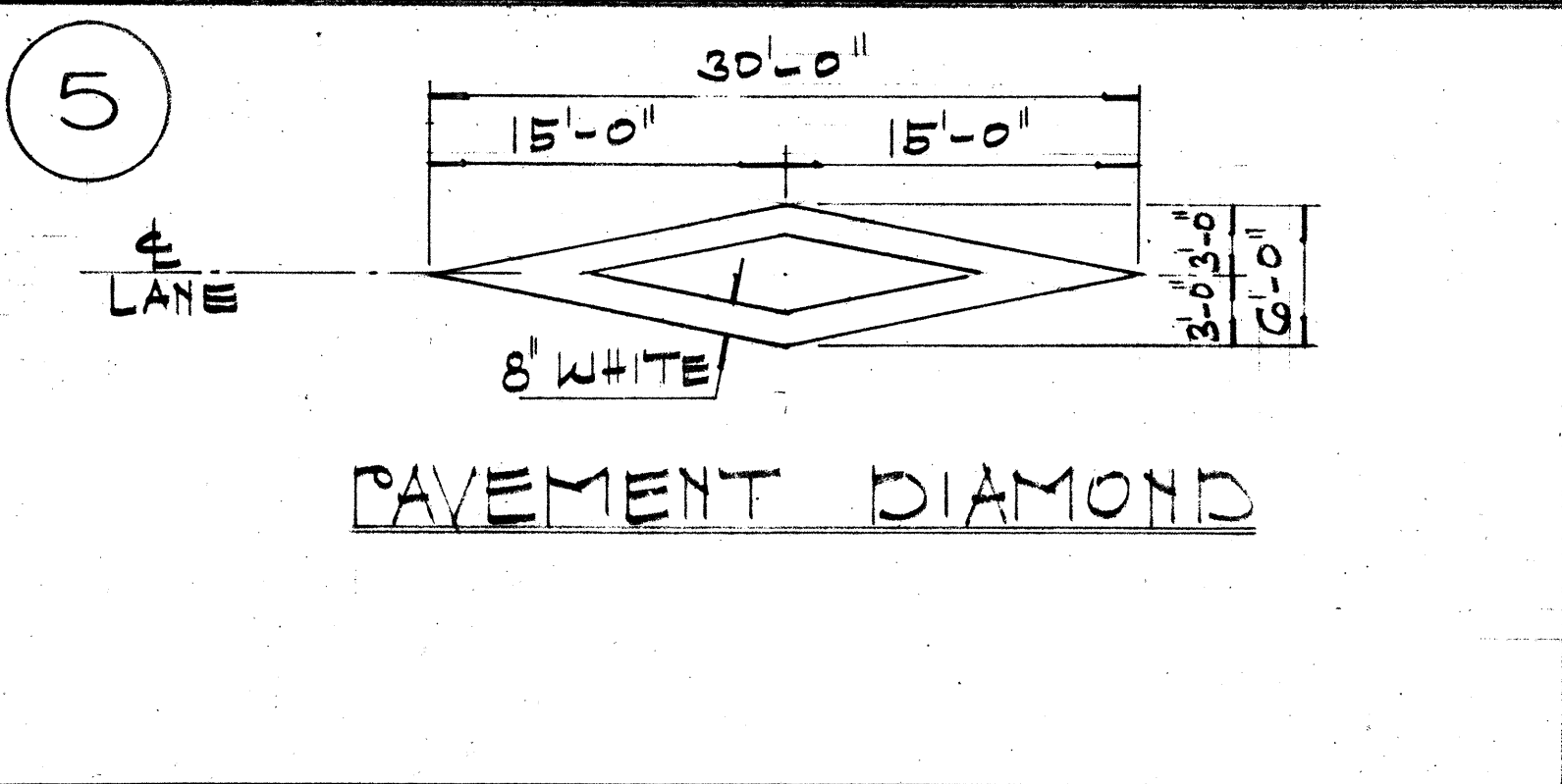
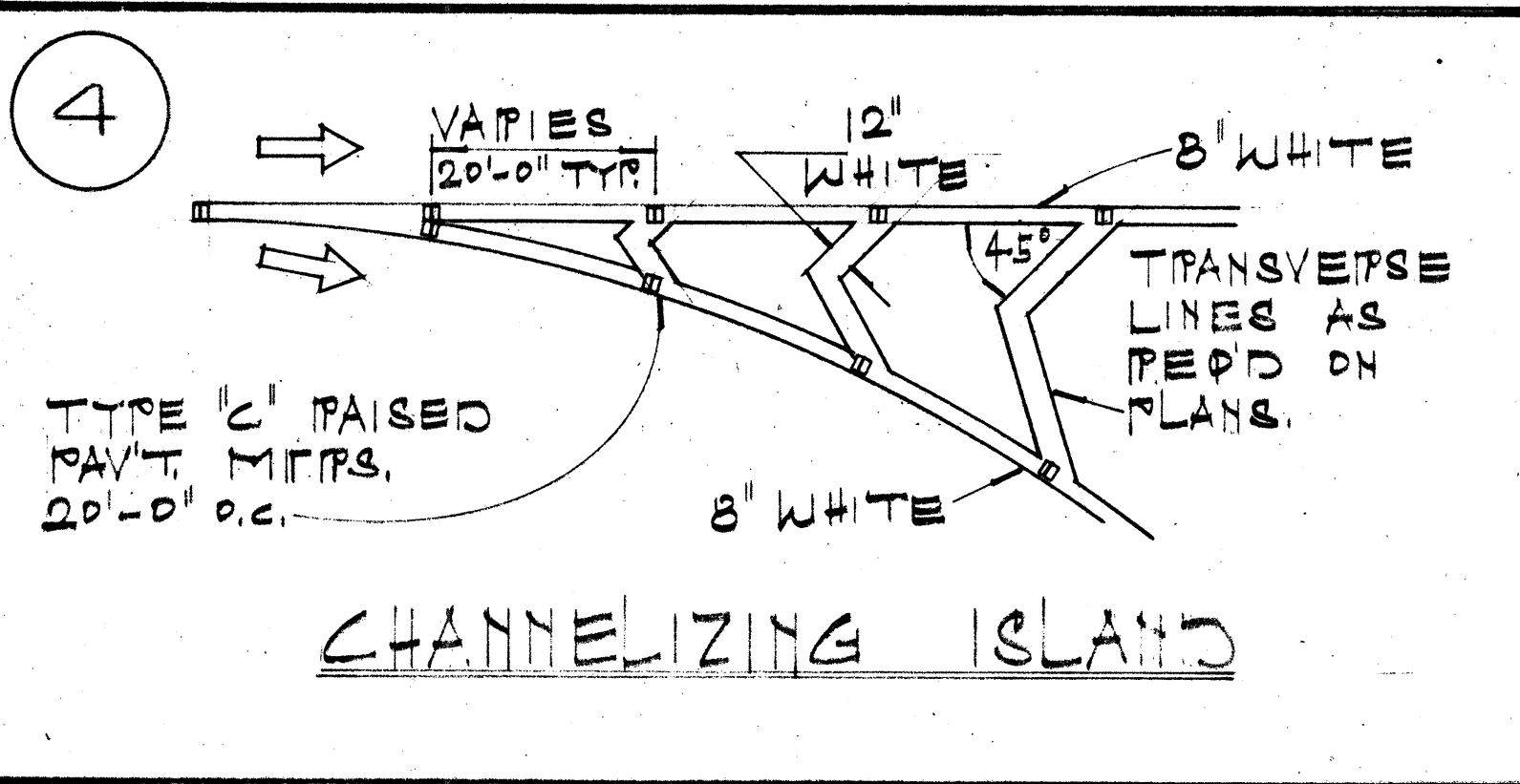
Not to Scale  
October 1971  
SHEET No. OF SHEETS DT 300

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	T-H-1(73)-15	1978	C.O.1325-1	369



**GENERAL NOTES:**

- PAVEMENT MARKINGS SHALL CONFORM TO THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS', 1971, (MUTCD), SUBSEQUENT REVISIONS TO THE MUTCD & AS SHOWN ON THE PLANS.
- LAYOUT OF PAVEMENT MARKINGS & STRIPING SHALL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK LAYOUT OF MARKERS & STRIPING WITH THE ENGINEER PRIOR TO PERFORMING WORK.
- FOR ADDITIONAL PAVEMENT MARKING DETAILS SEE SH. # DT300



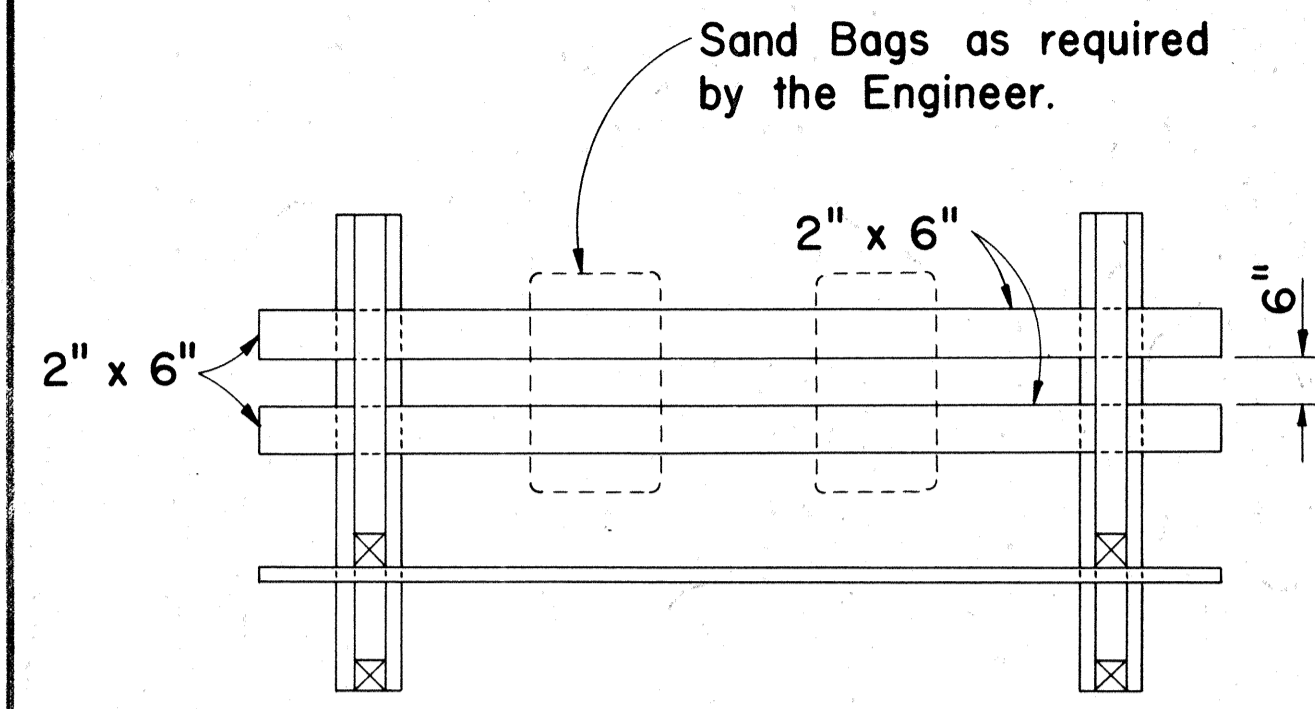
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TYPICAL DETAILS  
MISCELLANEOUS  
PAVEMENT MARKINGS**

NOT TO SCALE JULY 1976  
SHEET NO. 1 OF SHEETS

DATE: \_\_\_\_\_  
SURVEY PLOTTED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
TRACED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
QUANTITIES BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

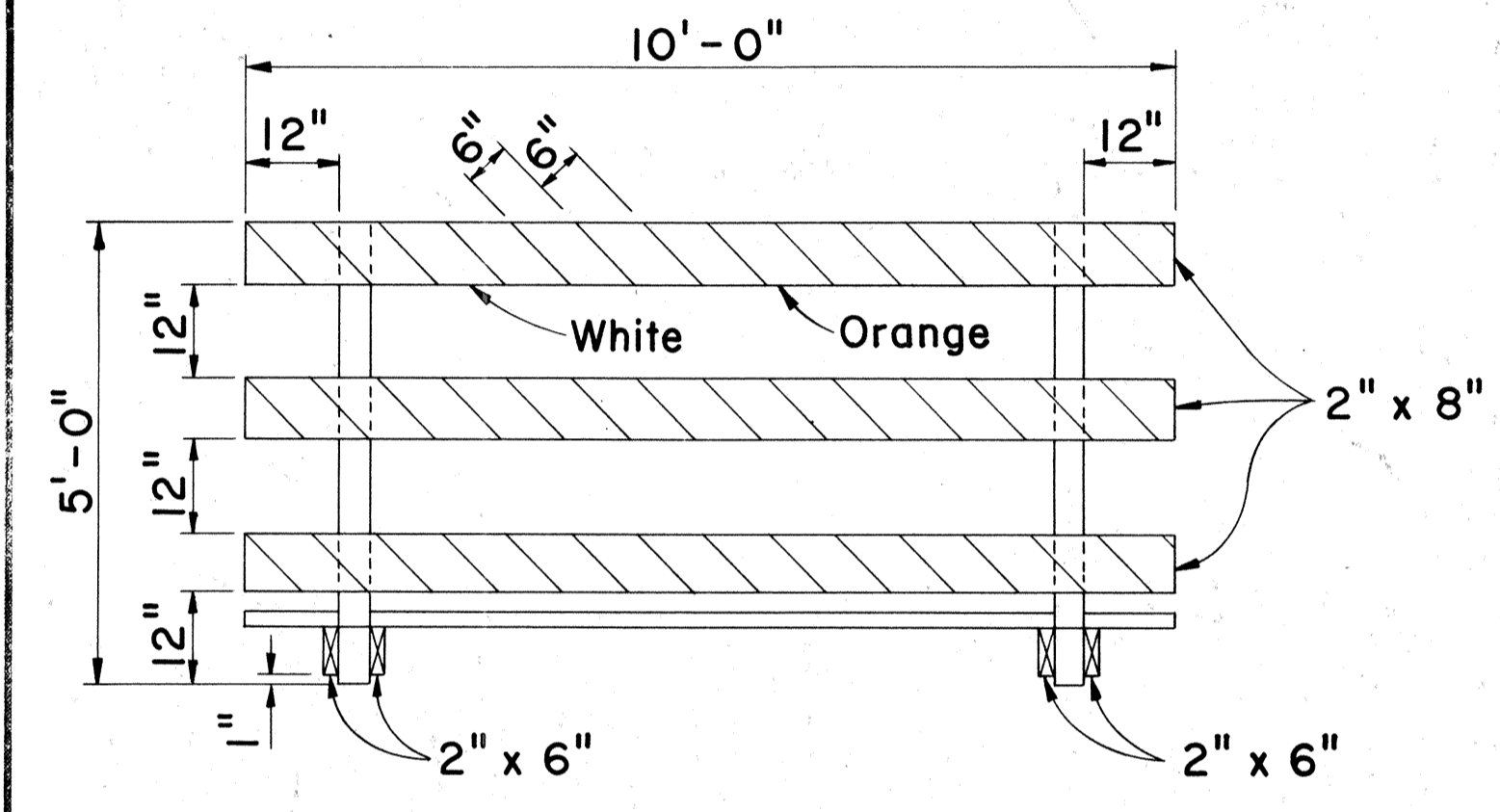
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-11-1(73)15	1974	133	369



**PLAN VIEW**

**GENERAL NOTES**

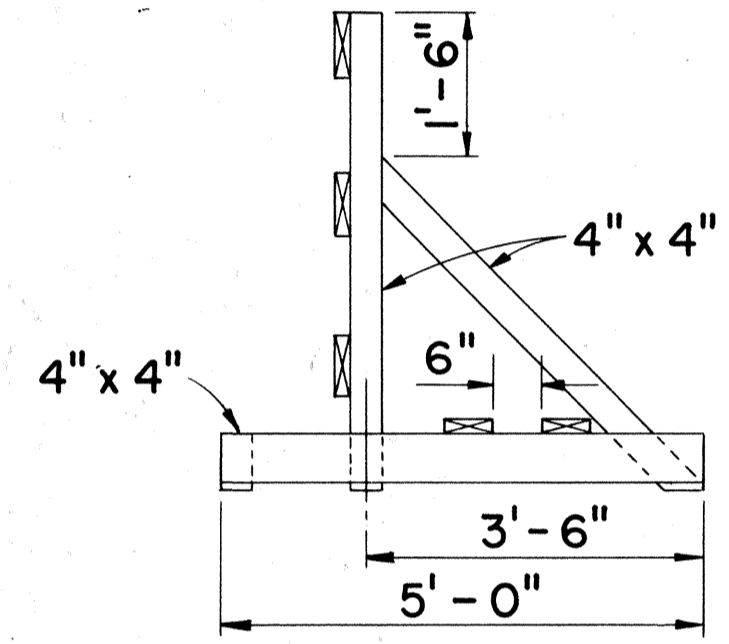
1. The Contractor shall construct, install and maintain the wood barricades at the locations shown on the Plans.
2. The permanent wood barricades shall be left in place or relocated upon completion of the project as ordered by the Engineer and are to become State property.
3. The orange and white stripes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



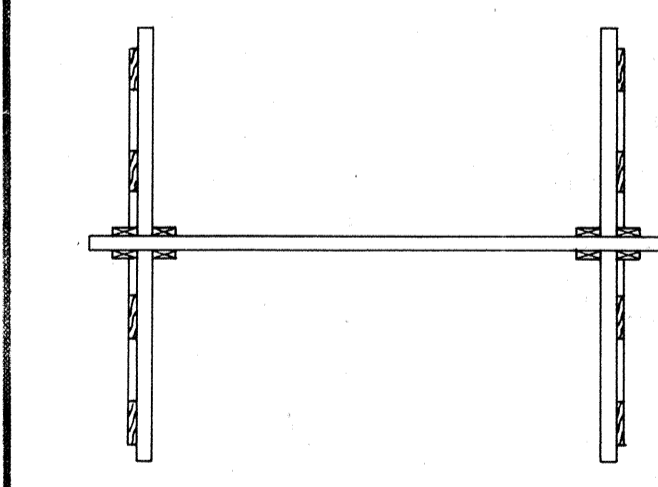
**FRONT VIEW**

**CLASS I BARRICADE**

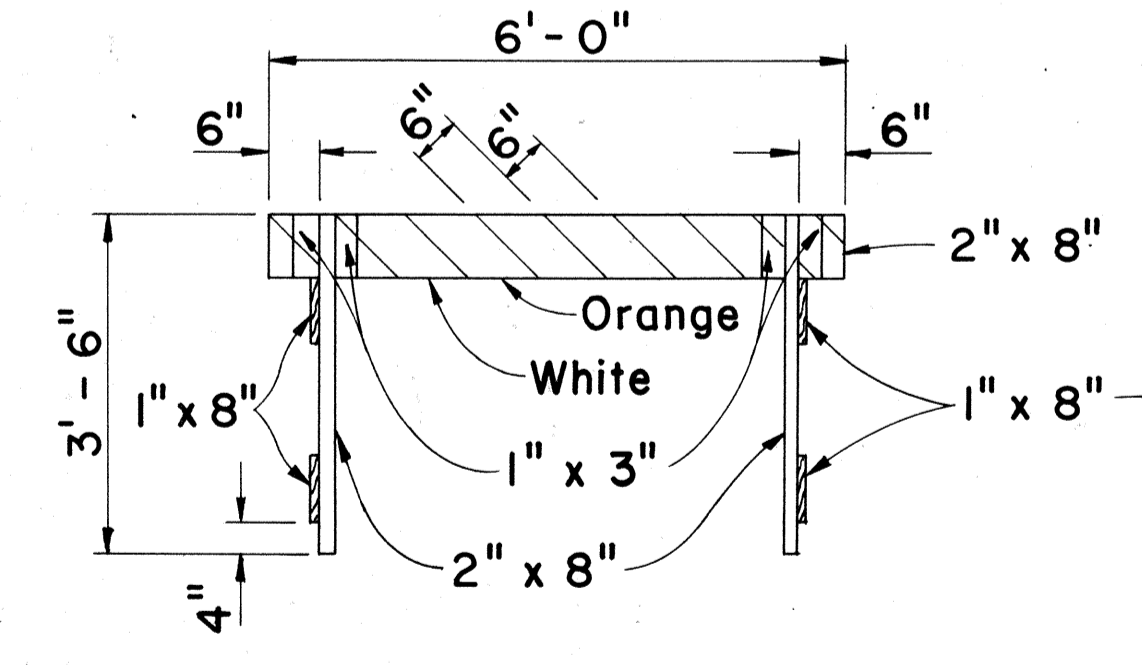
Scale: 1/2" = 1'-0"



**END VIEW**



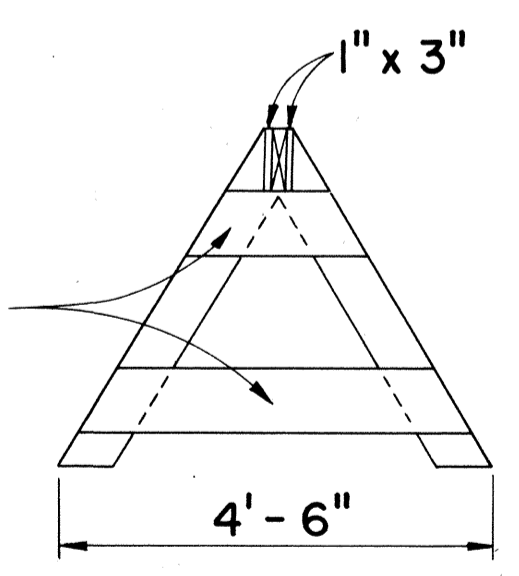
**PLAN VIEW**



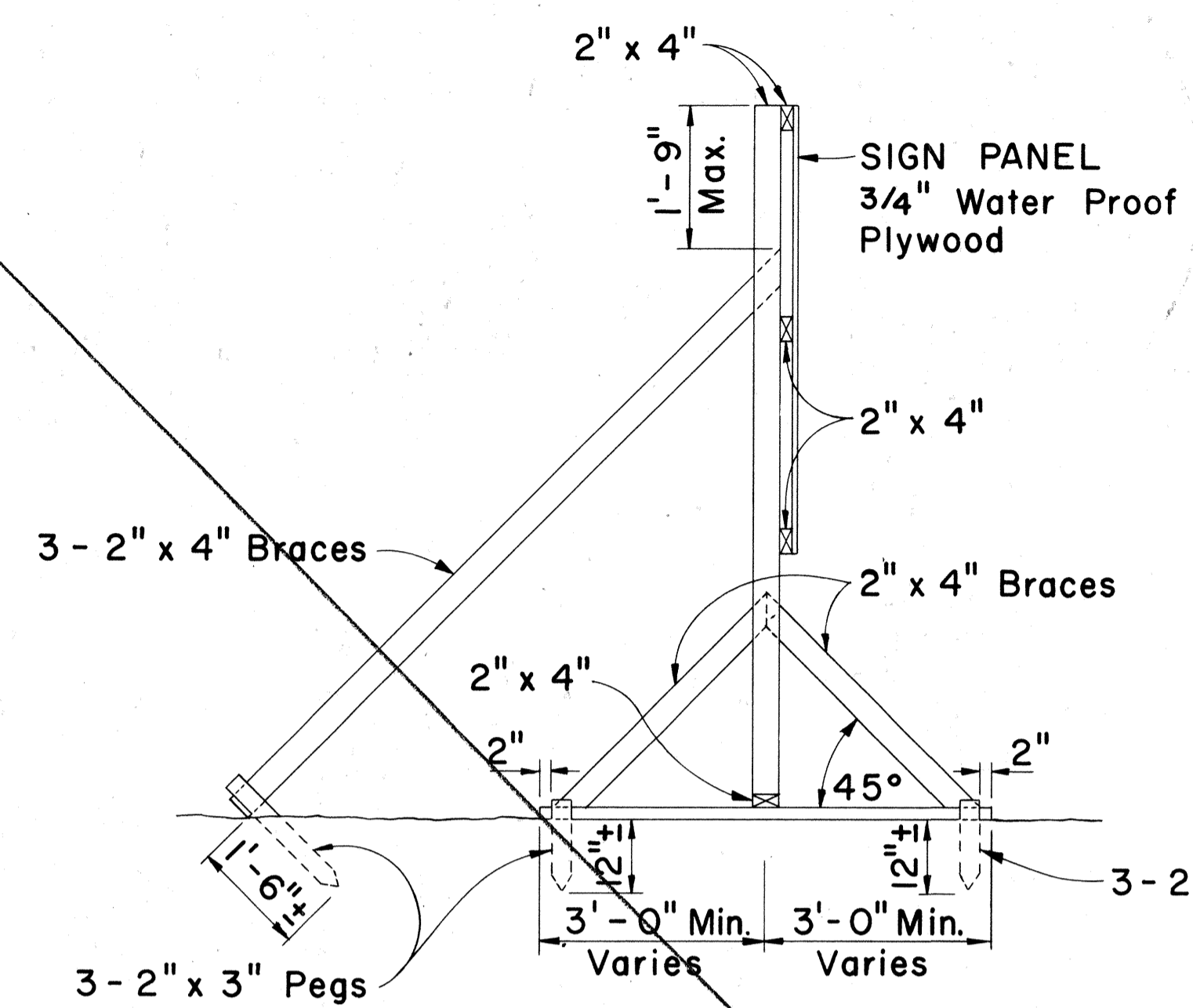
**FRONT VIEW**

**CLASS II BARRICADE**

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

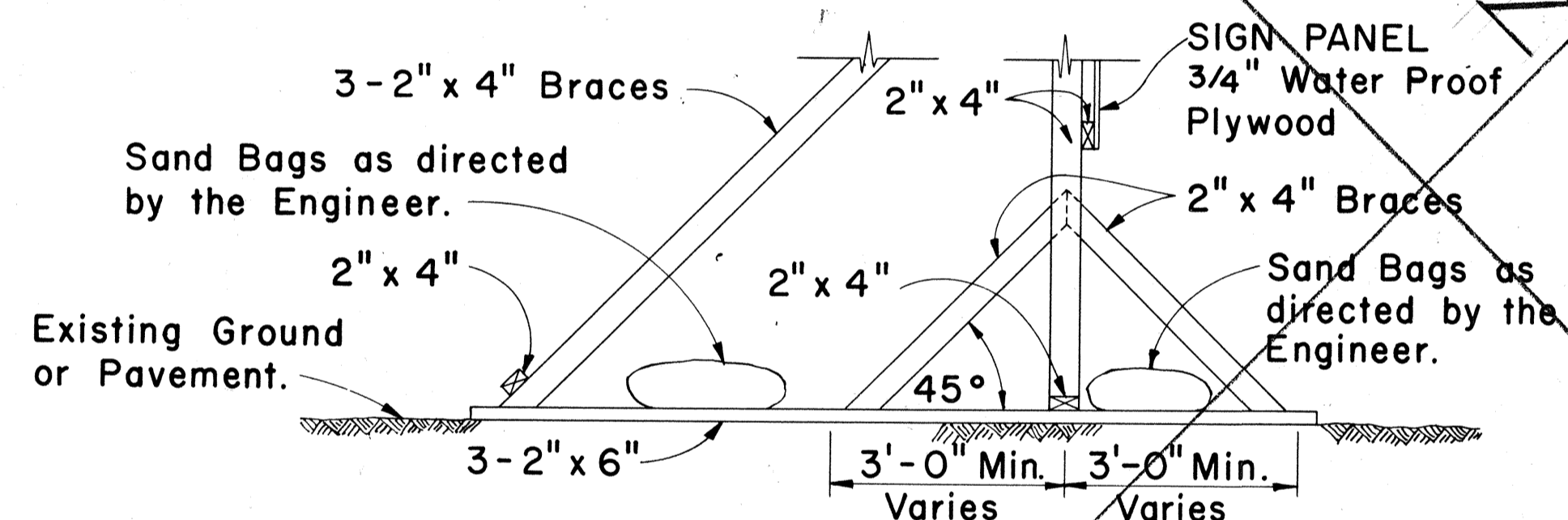


**END VIEW**



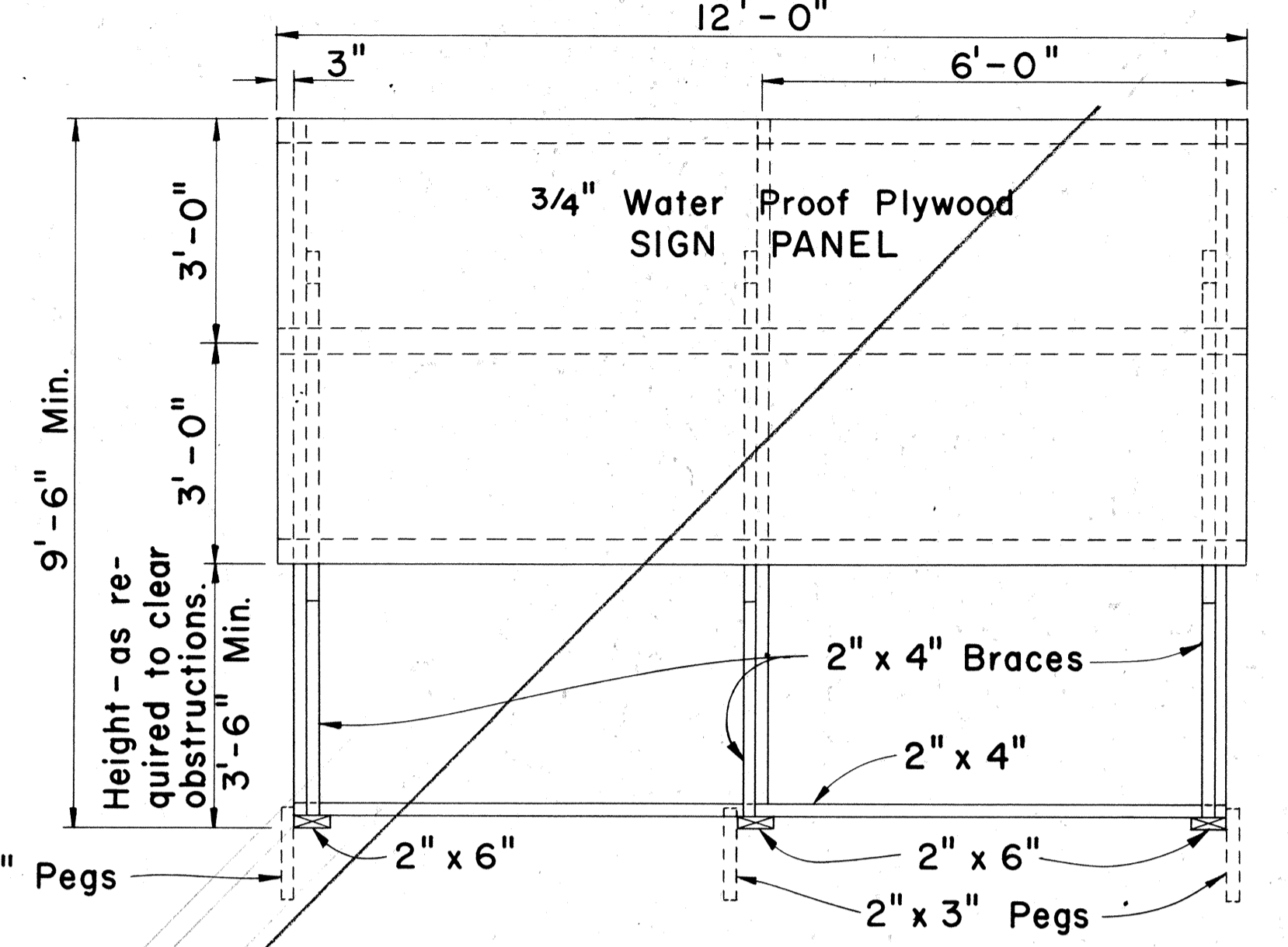
**SIDE VIEW**

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



**SIDE VIEW**

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



**FRONT VIEW**

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

**GENERAL NOTES**

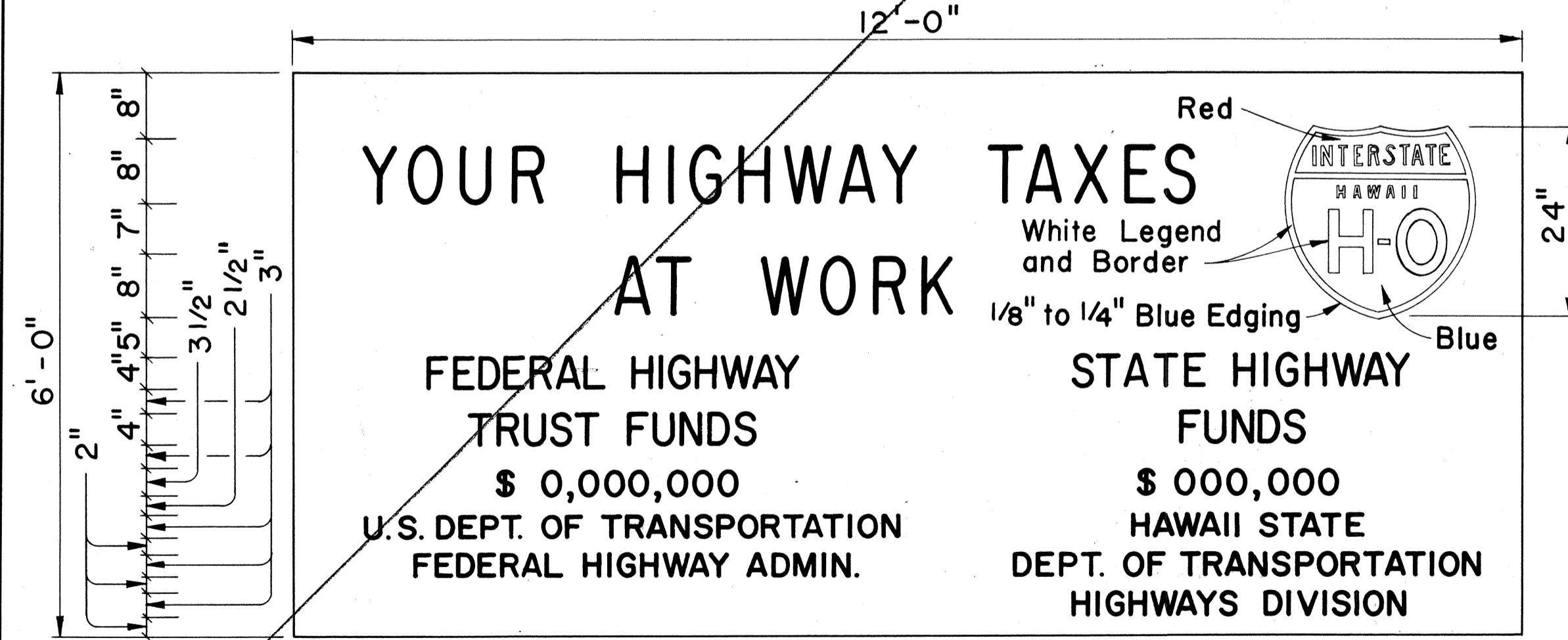
1. The sign legend shall be black on white background except for the Interstate Route marker which shall be as shown on the plan.
2. The Contractor shall construct, install and maintain the project signs at the locations shown on the Plans and as ordered by the Engineer.
3. Letters shall be Series "C" 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:

*Julius J. Sabat* 12-30-69  
ASSISTANT CHIEF, ENGINEERING DATE



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

**INTERSTATE SYSTEM  
CONSTRUCTION IDENTIFICATION SIGN**

Scale: As Shown

CCO #08: Plan Sht. C.O. 132 3-1 added between Sht. 132 and 133, see Sht. attached to opposite page.

NO.	REVISION	APPROVED BY	DATE
1	Reduce sign width to 12'-0"	H.T.	9-3-70
2	Delete "Bureau of Public Roads"	H.T.	9-29-70
3	Add Note No. 3 for Barricades	H.T.	5-4-71
4	Revise stripe color for Barricades	H.T.	10-27-72

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION CCO #08

**TYPICAL DETAILS**

CONSTRUCTION IDENTIFICATION SIGN AND WOOD BARRICADES

SCALE: As Shown DATE:

SHEET No. 26 OF 26 SHEETS DT 800

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