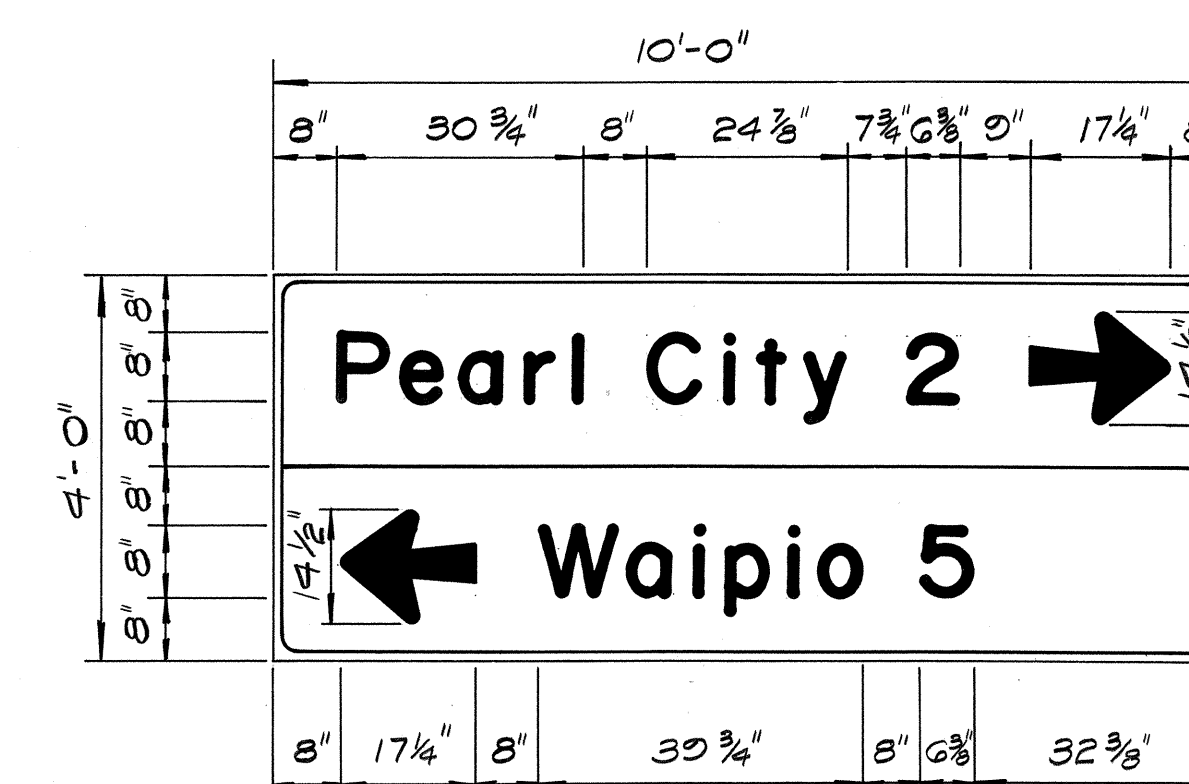
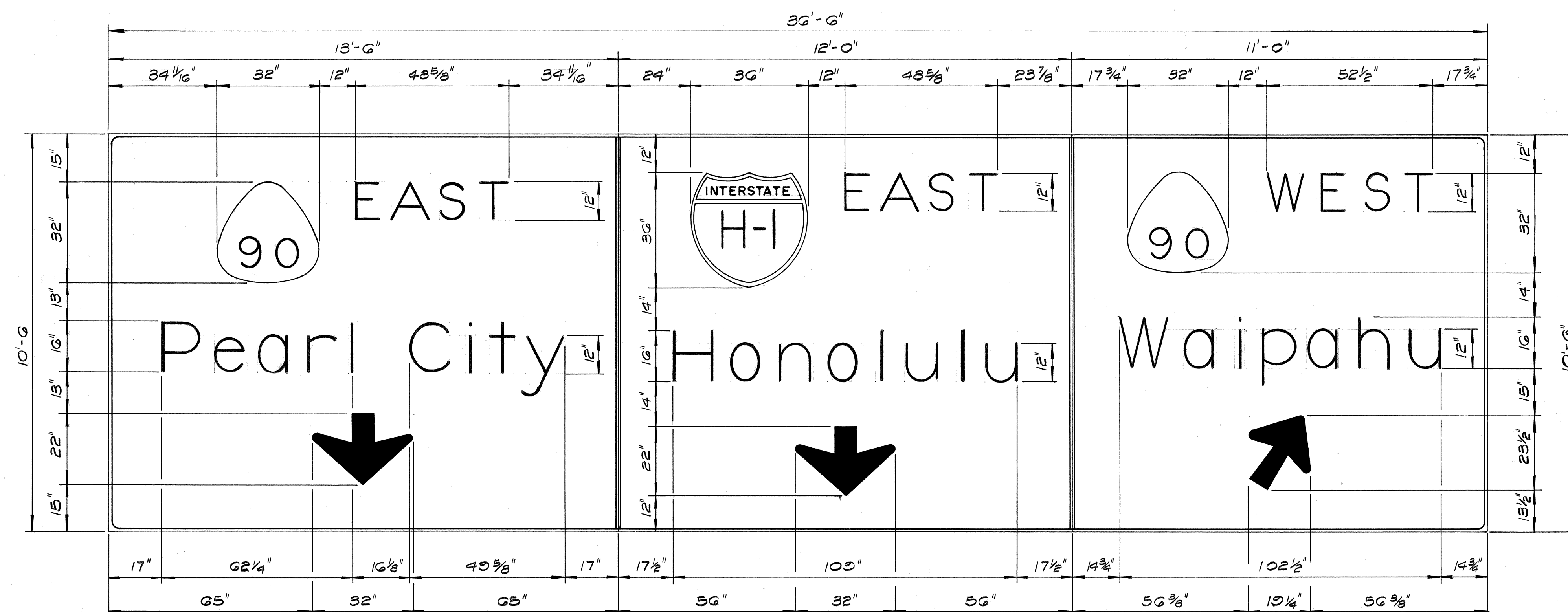
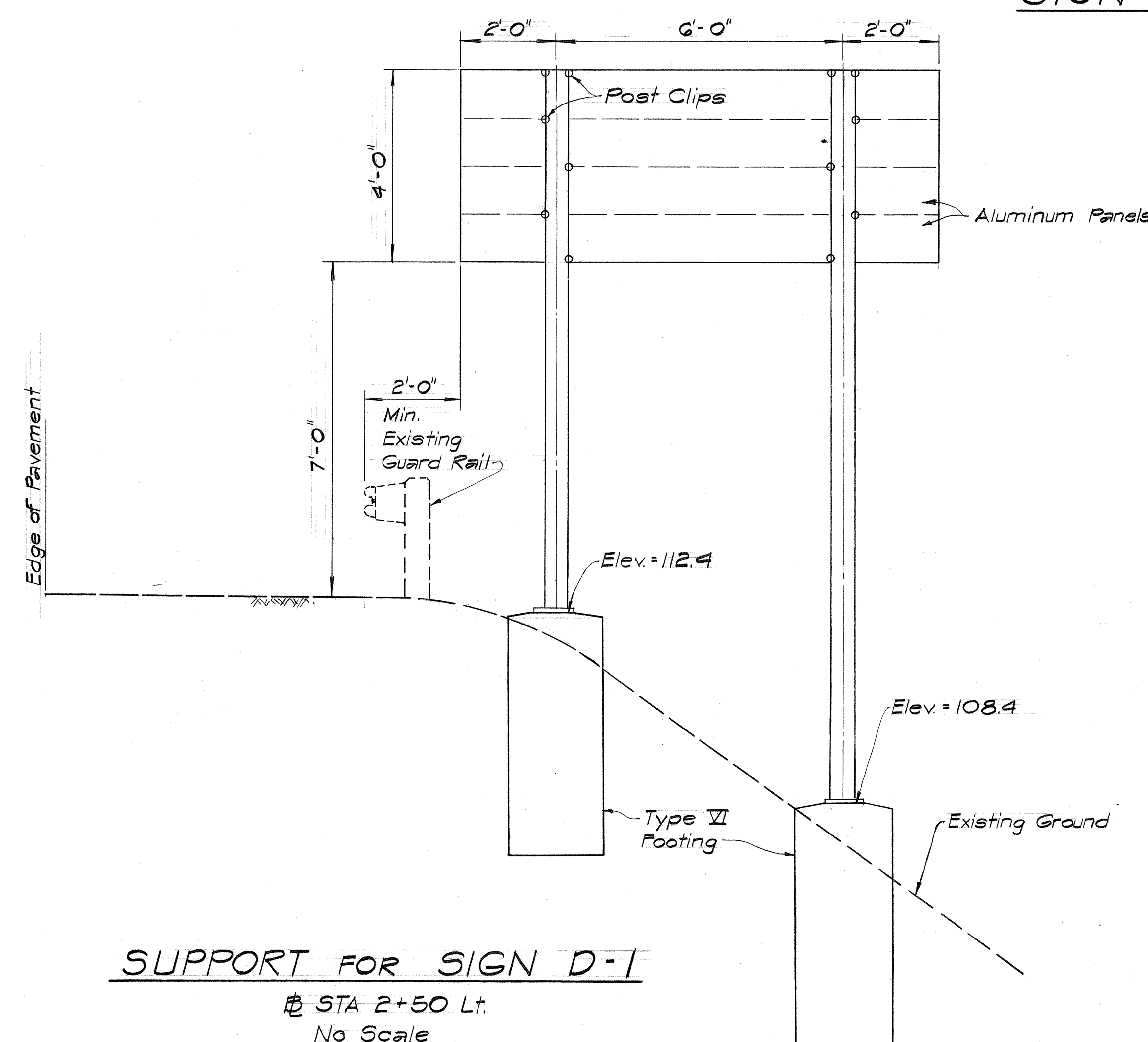


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-1(47):2	1968	52	227 339

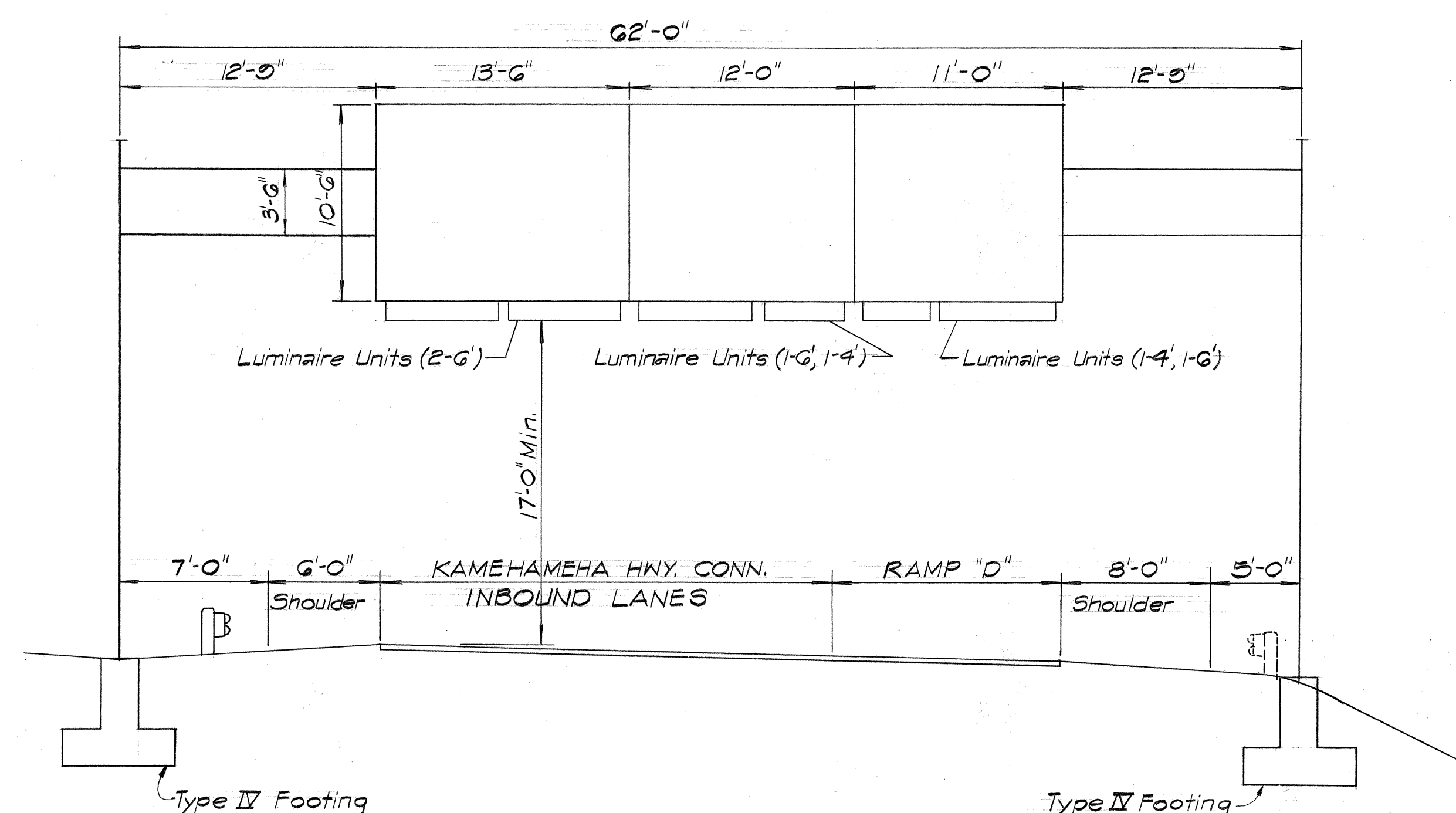


SIGN D-1

SIGN E - 7

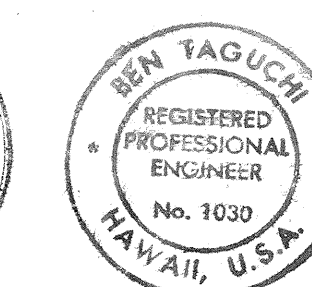
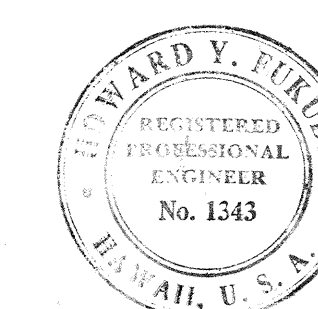


PANEL LAYOUT
Scale: $\frac{1}{2}'' = 1'-0''$



SUPPORT FOR SIGN E-7

STA. 21+00 R+
No Scale



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGN DETAILS

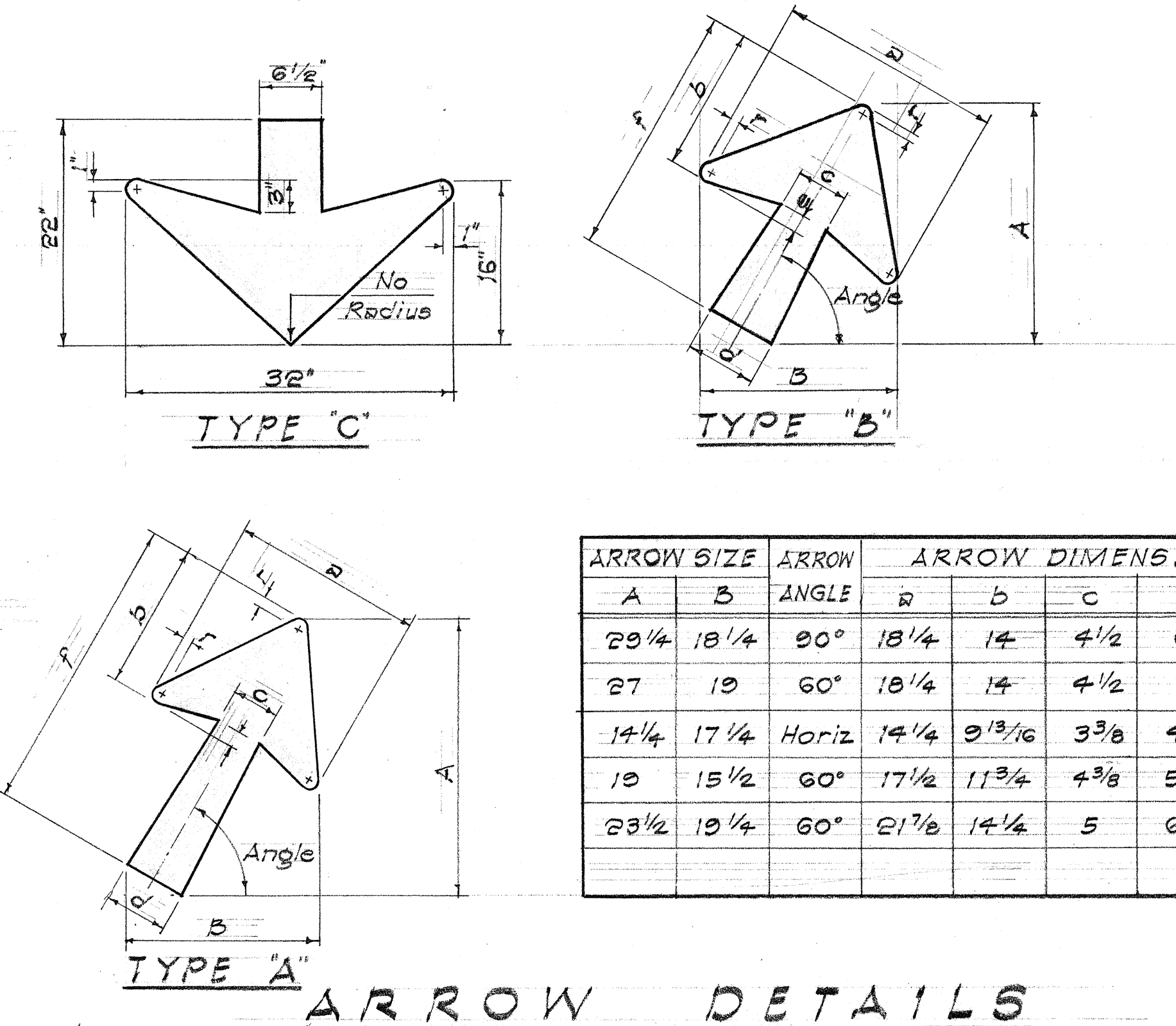
WAIAWA INTERCHANGE
F.A.I. Proj. No. I-HI - 1(47):9

Scale : As Shown Date: August 1968
SHEET No. 1 OF 7 SHEETS

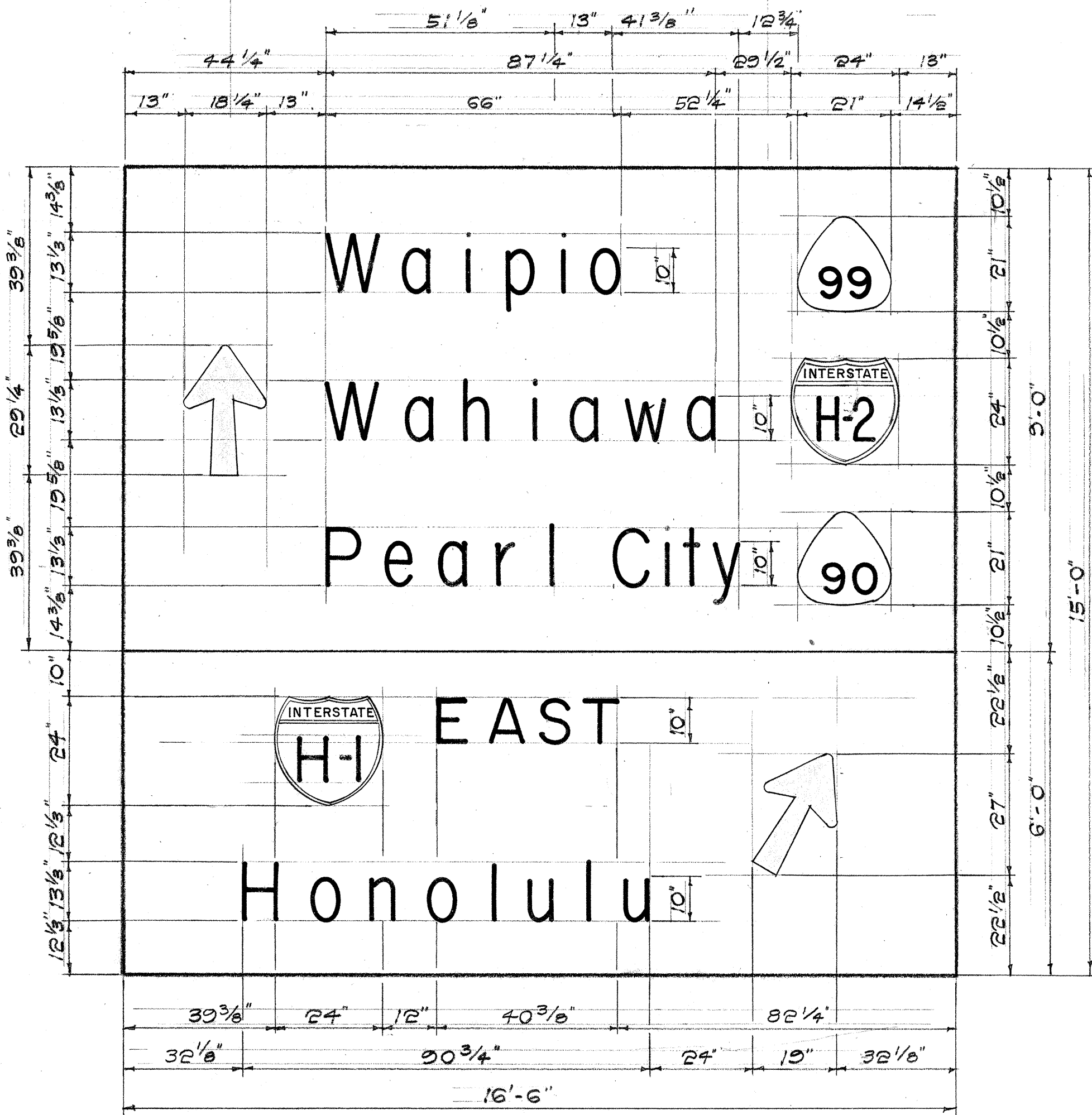
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(47):9	1968	53	227

GENERAL NOTES

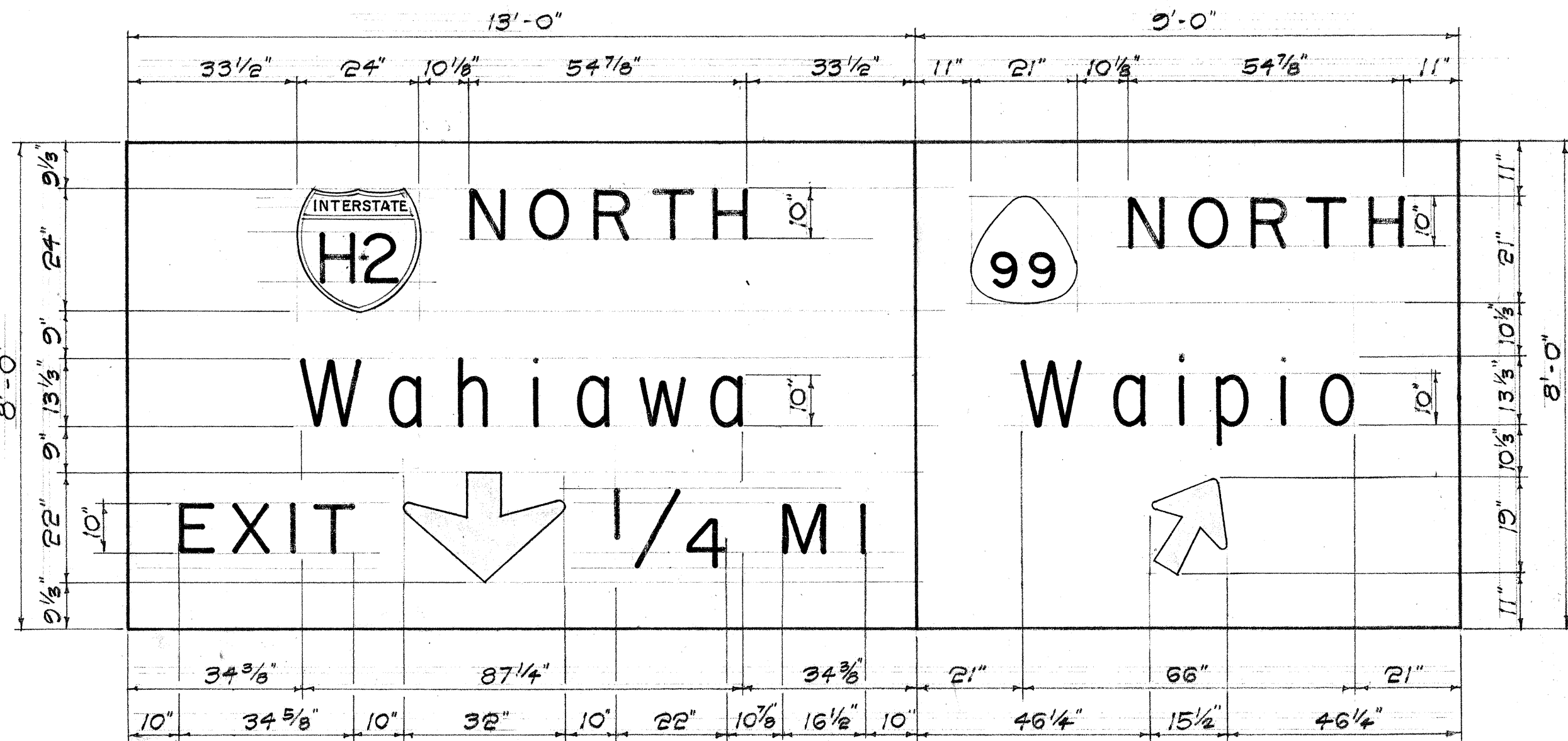
- Sign message shall be lettered in upper and lower case according to "Standard Alphabets for Highway Signs," Bureau of Public Roads, 1966. Use Series "E" modified letters unless otherwise noted.
- Arrows shall conform with details as shown on plans.
- All borders and State Route Marker shall conform with Detail Sheet "Destination and Expressway Signs, State Route Marker and Border Details."
- Letters, numerals, symbols and borders shall be reflectorized cut-outs or demountable copies. Destination signs will use reflectorized cut-outs.
- All reflectorized cut-outs and demountable copies shall be fastened on sign panel with blind rivets. See Special Provisions.



ARROW SIZE	A	B	ANGLE	ARROW DIMENSIONS IN INCHES						
				a	b	c	d	e	f	r
29 1/4	18 1/4	20°	18 1/4	14	4 1/2	6	1 1/2	29 1/4	3/4	
27	19	60°	18 1/4	14	4 1/2	6	1 1/2	29 1/4	3/4	
14 1/4	17 1/4	Horiz	14 1/4	2 13/16	3 3/8	4 1/2	1 5/16	17 1/4	3/4	
19	15 1/2	60°	17 1/2	11 3/4	4 3/8	5 5/8	1 1/2	20 1/4	7/8	
23 1/2	19 1/4	60°	21 7/8	14 1/4	5	6 3/4	1 3/4	25	1	



SIGN E-8
STA. 11+00 - FARR. I.B.



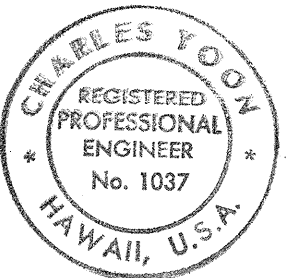
SIGN E-10
STRUCTURE NO 10-B
FARR. I.B.

SUMMARY
OF EXPRESSWAY SIGNS

SIGN NO.	MESSAGE	LOCATION	AREA (Sq. Ft.)
E-7	Pearl City, Honolulu, Waipahu	21+00 - Kam. Conn.	383.25
E-8	Waipio, Wahiawa, Pearl City, Honolulu	11+00 - Farr. I.B.	247.50
E-10	Wahiawa, Waipio	Struc. 10-B Farr. I.B.	176.00
E-11	Honolulu, Pearl City	4+00 - "H"	162.50
E-13	Waipio	0+00 - "E"	115.50
E-24	Waipio (Right Lane)	8+00 - Farr. O.B.	118.75
E-25-L	Wahiawa	484+50.41 - H-20B, 513+00 - H-10B	309.75
E-25-R	Wahiawa	-do-	183.75
E-26	Wahiawa	0+75 - #4	120.75
E-30-A	Waipahu	Junction - Exist. Kam	115.50
E-30-B	Waipio	Hwy. & Farr. Hwy.	115.50
E-30-C	Wahiawa	-do-	115.50
E-30-D	Wahiawa	-do-	115.50
E-31-A	Waipio, Waipahu	Exist. Kam Hwy.	99.00
E-31-B	Wahiawa	-do-	115.50
E-31-C	Wahiawa	-do-	115.50
Subtotal - Expressway Signs			1,803.00
D-1	Pearl City, Waipio	2+50 - Waipahu	40.00
D-2	Exit	28+00 - Farr. I.B.	30.00
D-3	Wahiawa (Right Lane)	31+50 - Farr. I.B.	118.75
Subtotal - Destination Signs			188.75
TOTAL			1,991.75

SEE PROJECT LEDGER FOR FINAL QUANTITIES

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



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Charles Yoon

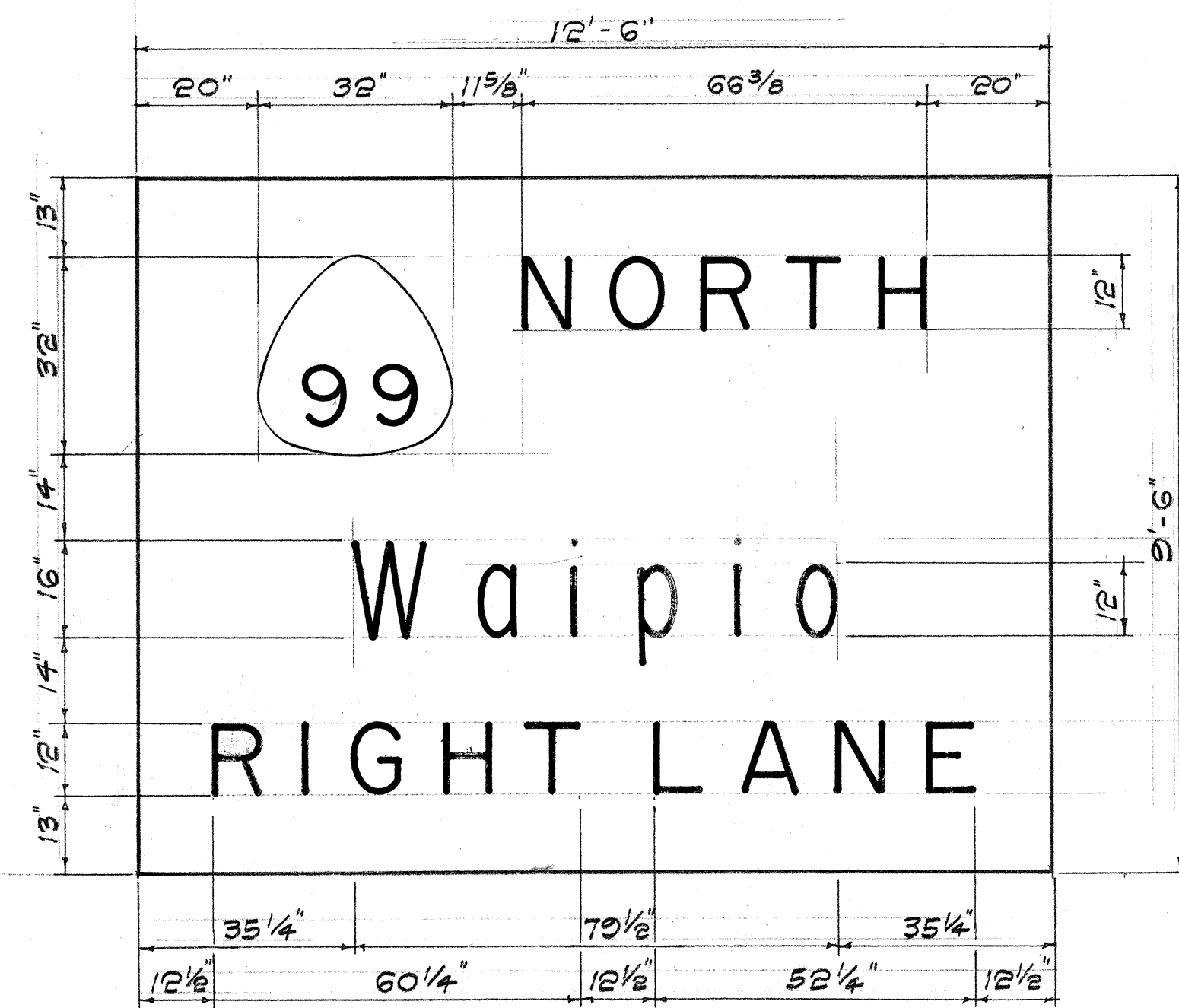
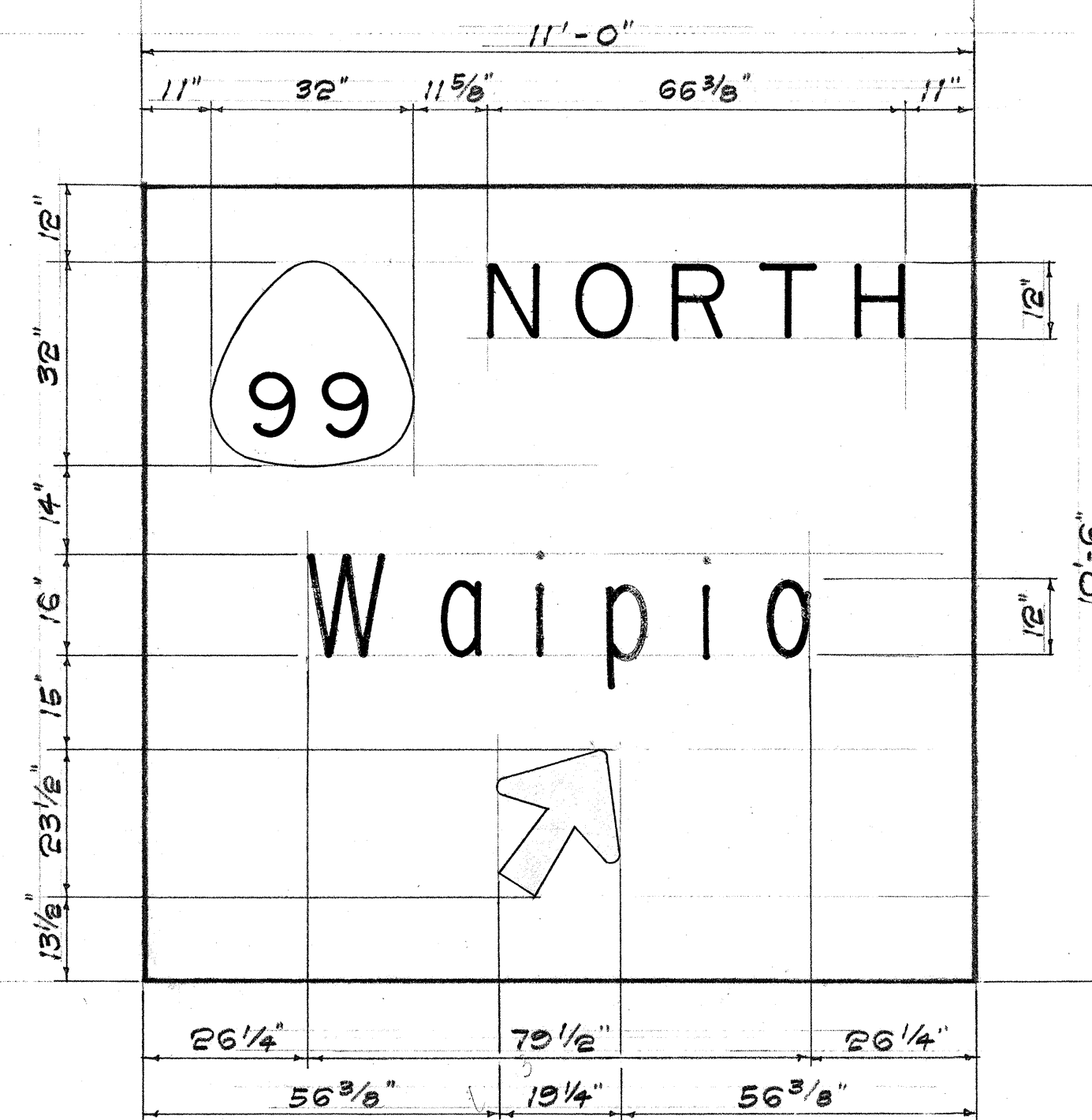
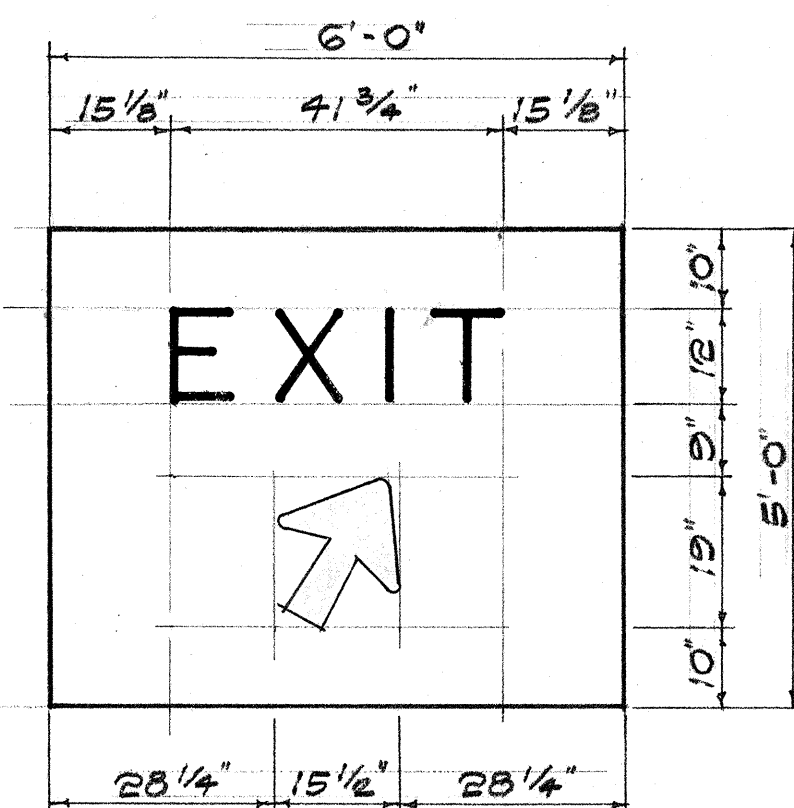
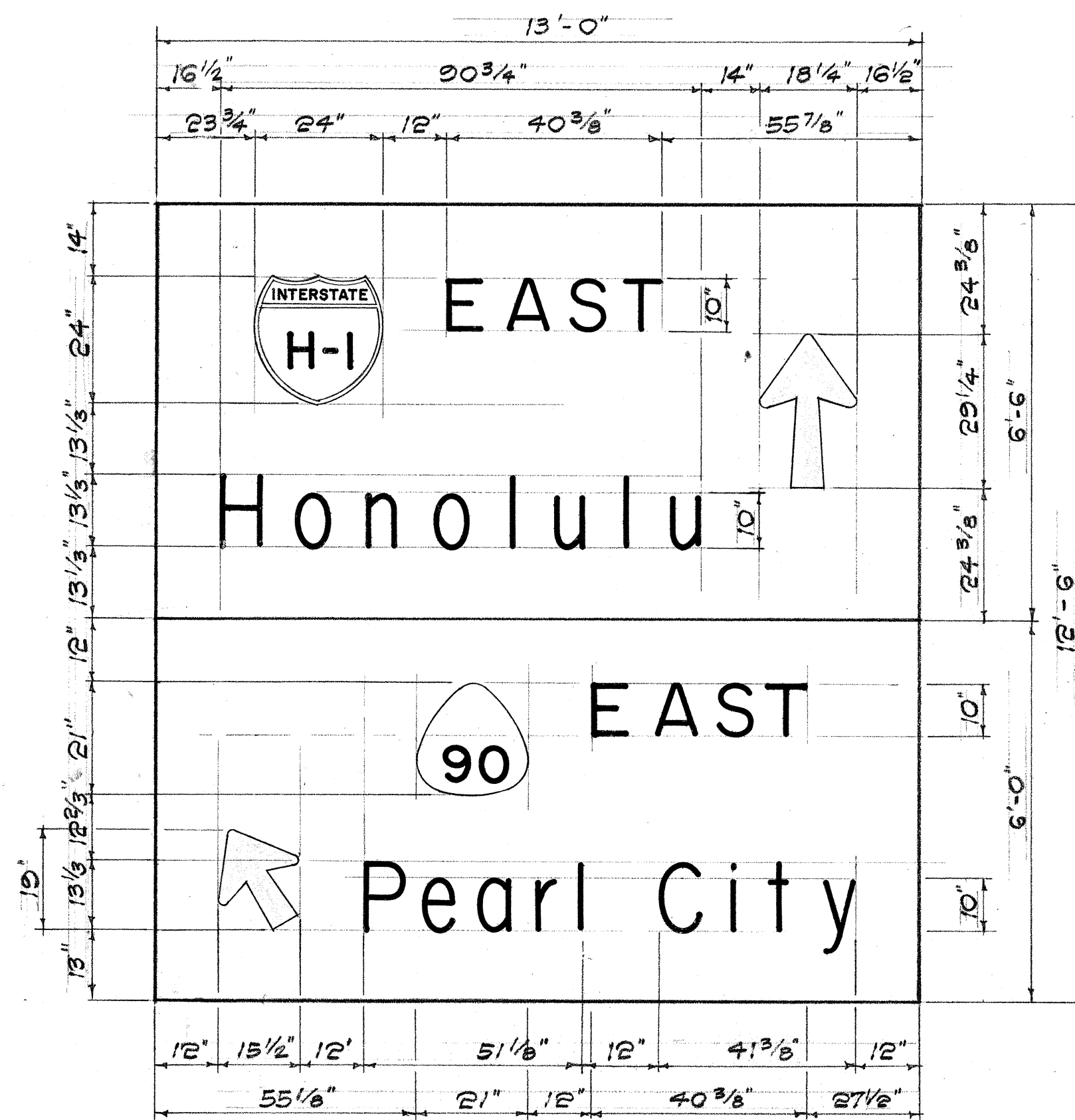
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGN
DETAILS

F.A.I. PROJ. NO. I-HI-1(47):9
No Scale

SHEET No. 2 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1 (47):2	1968	54	227 330

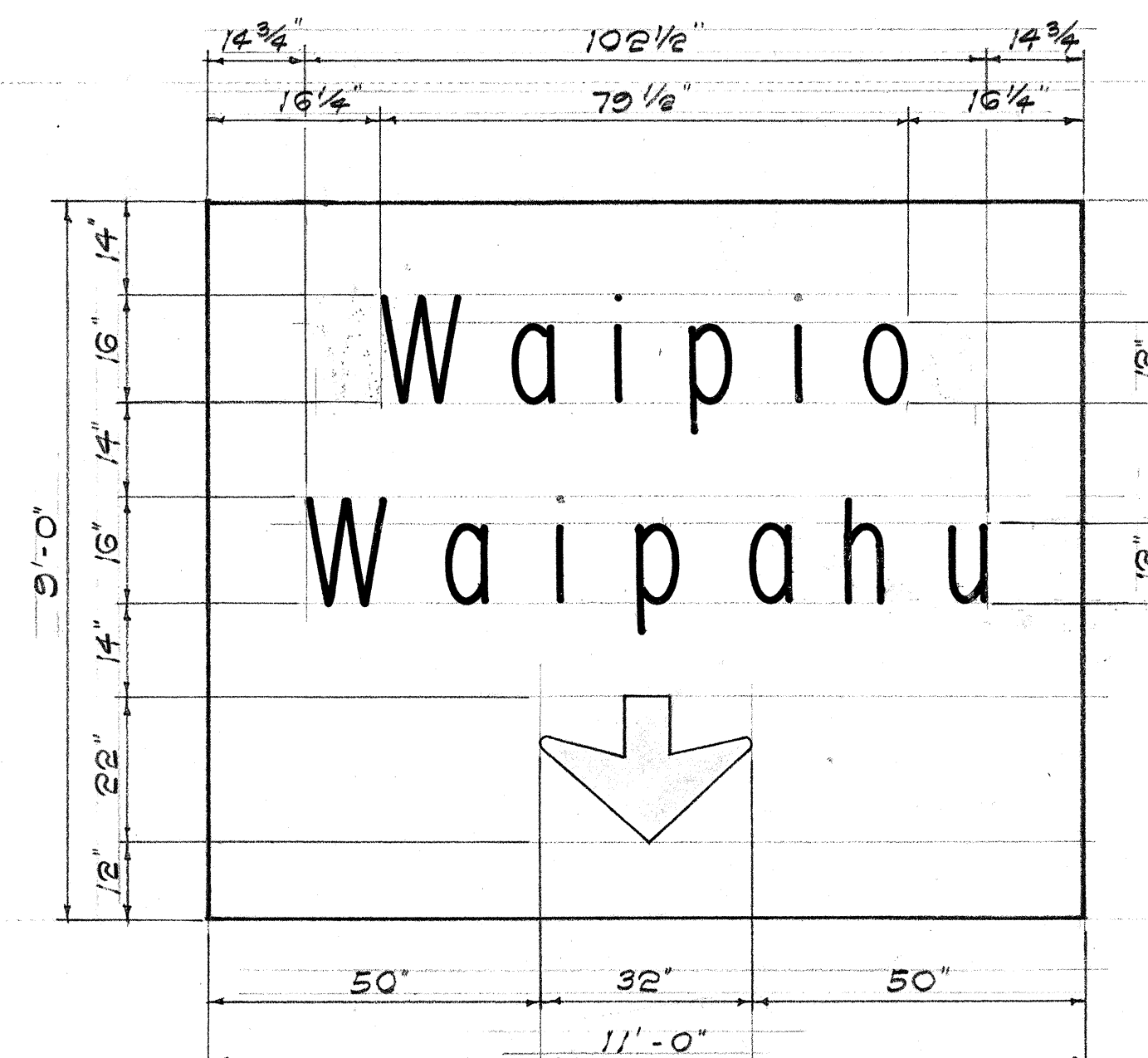
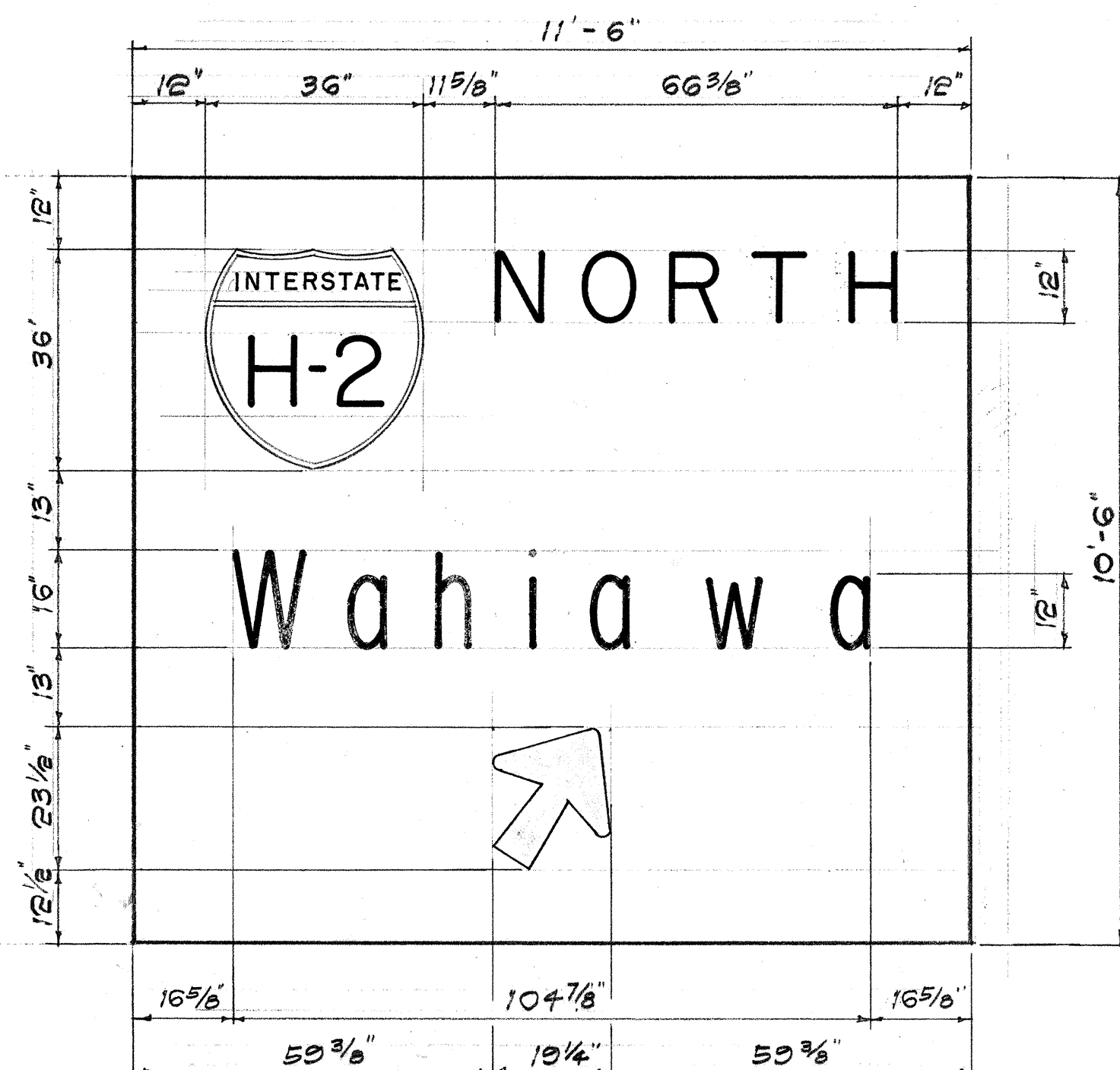
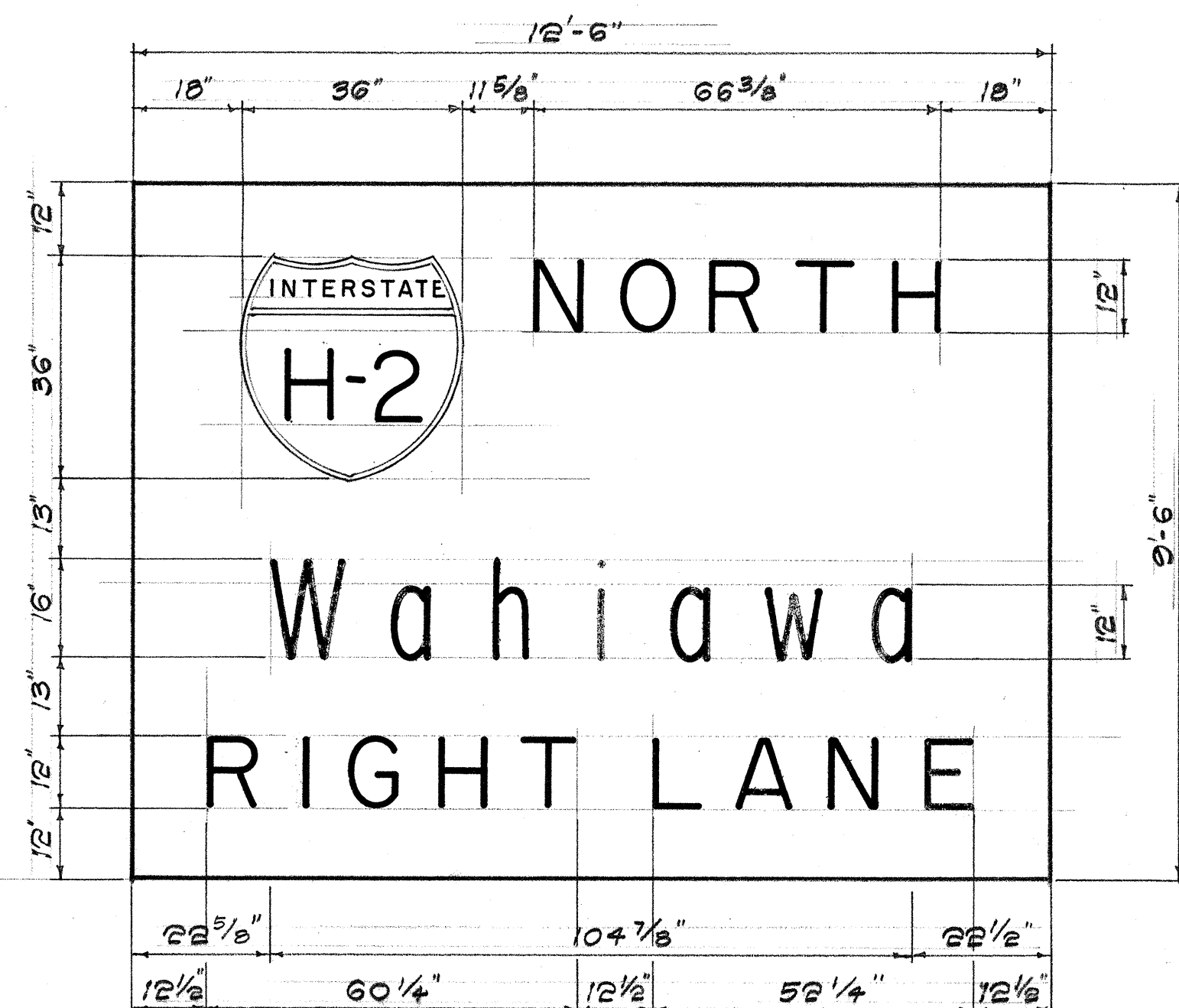


SIGN E-11
STA. 4+00 - RAMP "H"

SIGN D-2
STA. 28+00 - FARR. I.B.

SIGN E-13
STA. 0+00 - RAMP "E"

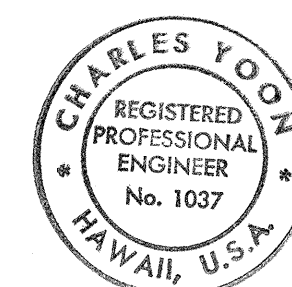
SIGN E-24
STA. 8+00 - FARR. O.B.



SIGN D-3
STA. 31+50 - FARR. I.B.

SIGN E-26
STA. 0+75 - LOOP #4

SIGN E-31-A
EXIST. KAMEHAMEHA HWY.



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Charles Yoon

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGN
DETAILS

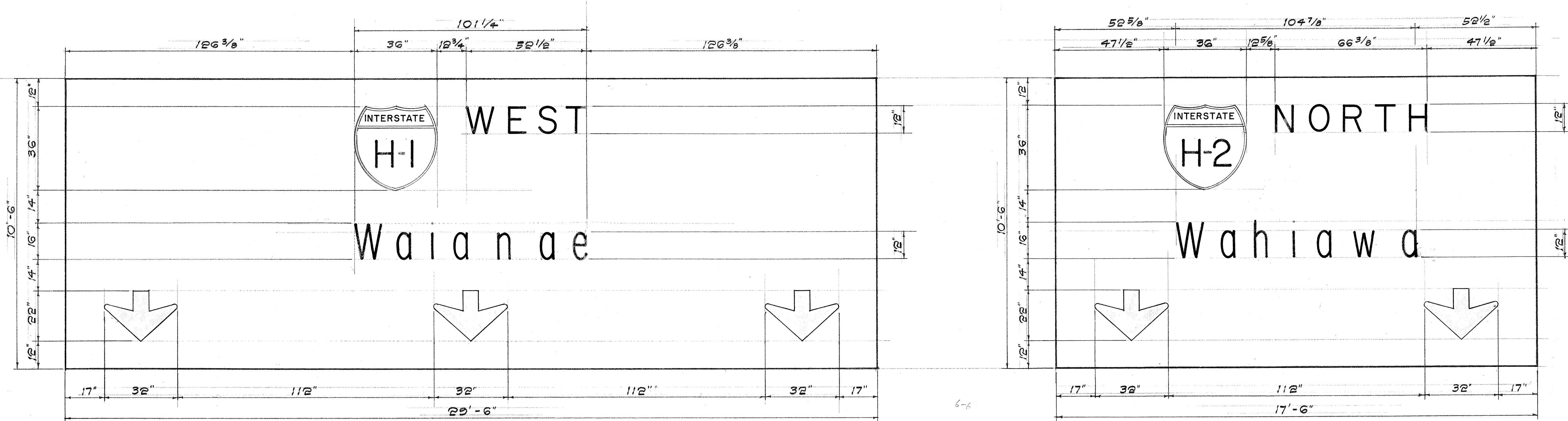
F.A.I. PROJ. NO. I-HI-1 (47):2

No Scale

SHEET No. 3 OF 7 SHEETS

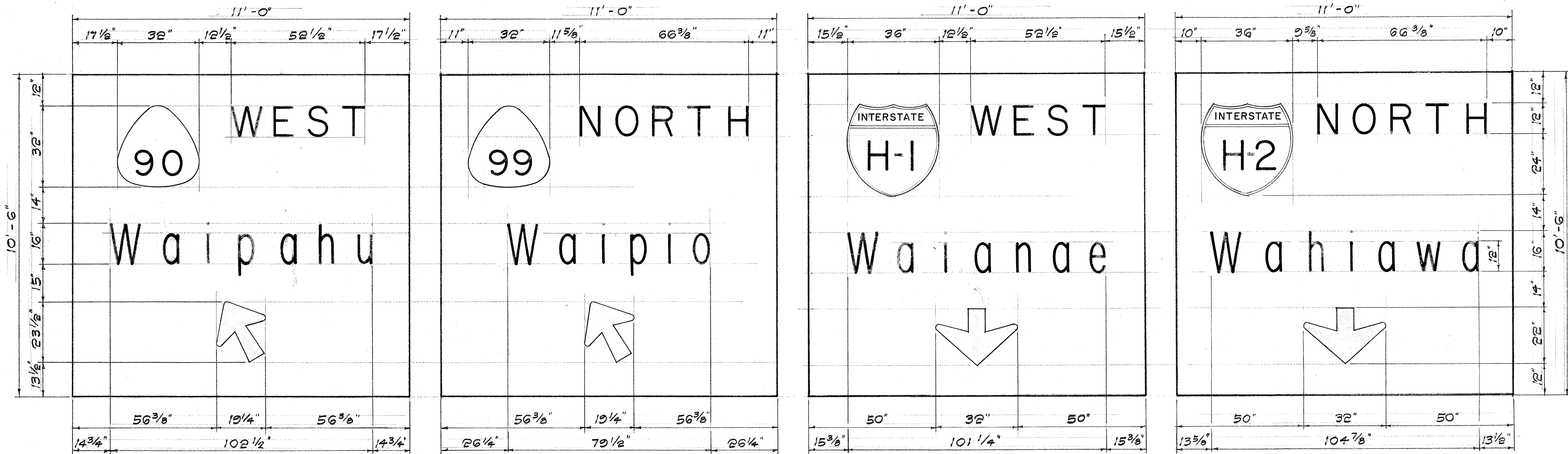
ORIGINAL PLAN	DATE
SURVEYED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(47) 9	1968	55	238 227



S I G N E - 2 5 - L
 STA. 484+50.41 - H-2 O.B.
 STA. 513+00 - H-1 O.B.

S I G N E - 2 5 - R
 STA. 484+50.41 - H-2 O.B.
 STA. 513+00 - H-1 O.B.



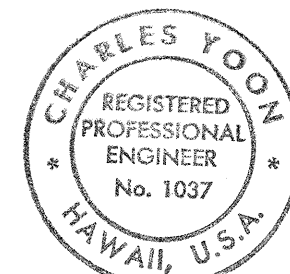
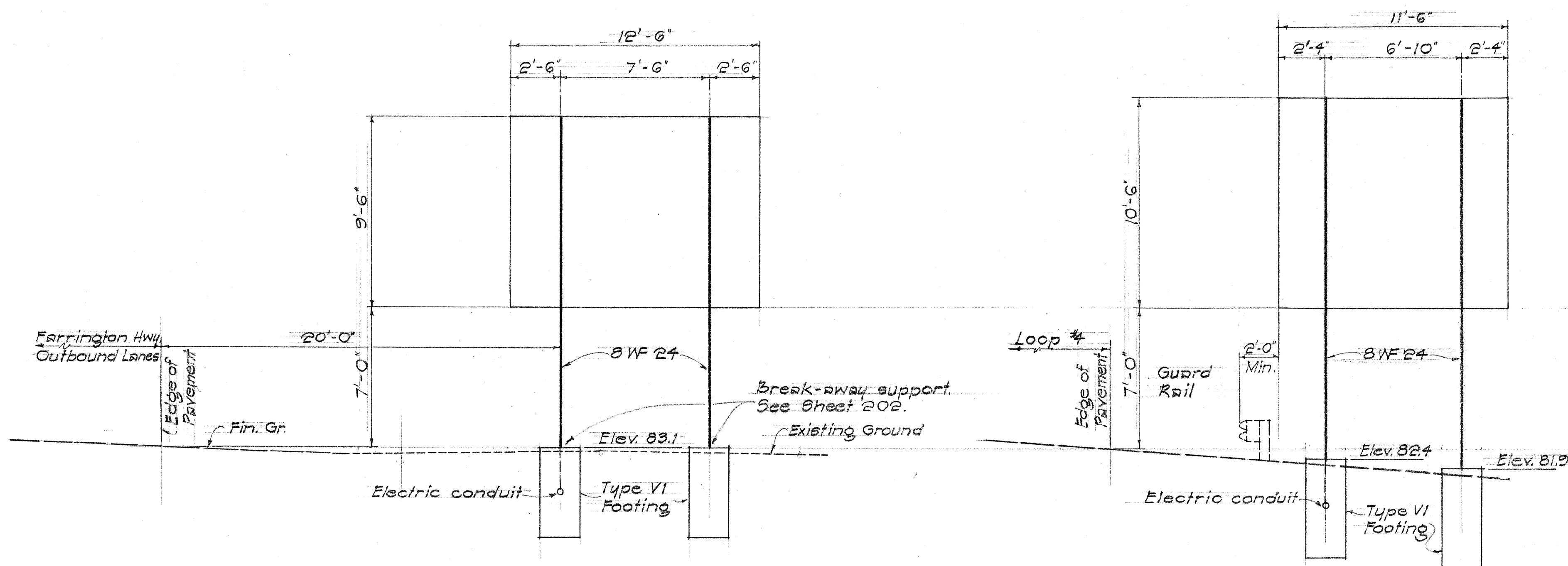
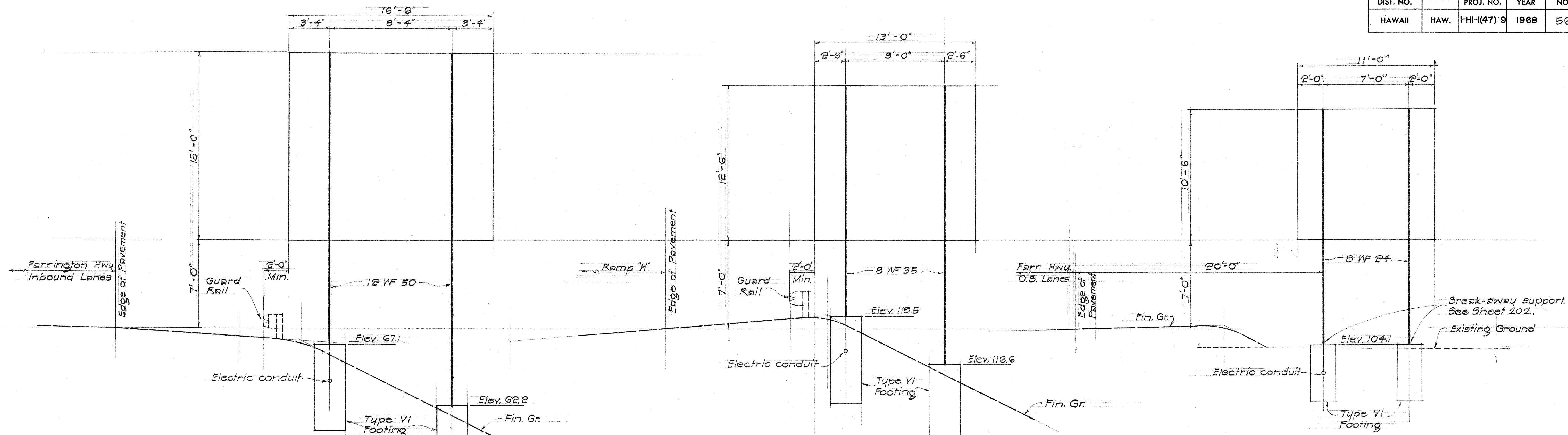
JUNCTION - EXISTING KAMEHAMEHA AND FARRINGTON HIGHWAYS
 S I G N E - 3 0 - A S I G N E - 3 0 - B S I G N E - 3 0 - C S I G N E - 3 0 - D
 S I G N E - 3 1 - B S I G N E - 3 1 - C
 EXISTING KAMEHAMEHA HIGHWAY

CHARLES YOON
 REGISTERED
 PROFESSIONAL
 ENGINEER
 No. 1037
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY
 ME OR UNDER MY SUPERVISION.
Charles Yoon

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 EXPRESSWAY SIGN
 DETAILS
 F.A.I. PROJ. NO. I-HI-1 (47):9
 No 9cble
 SHEET No. 4 OF 7 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(47)-9	1968	56	227



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

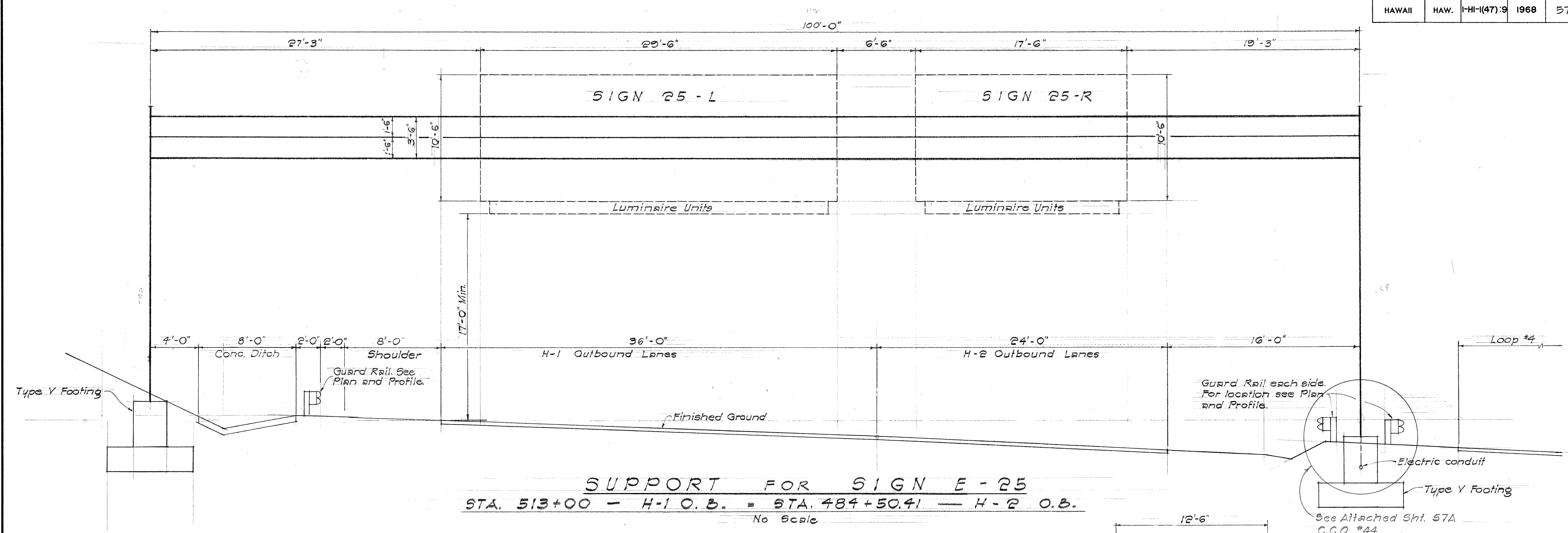
**EXPRESSWAY SIGN
DETAILS**

F.A.I. PROJ. NO. I-HI-1(47)-9
No Scale

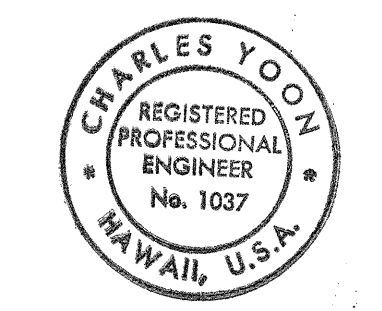
SHEET No. 5 OF 7 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(47):9	1968	57	227 252

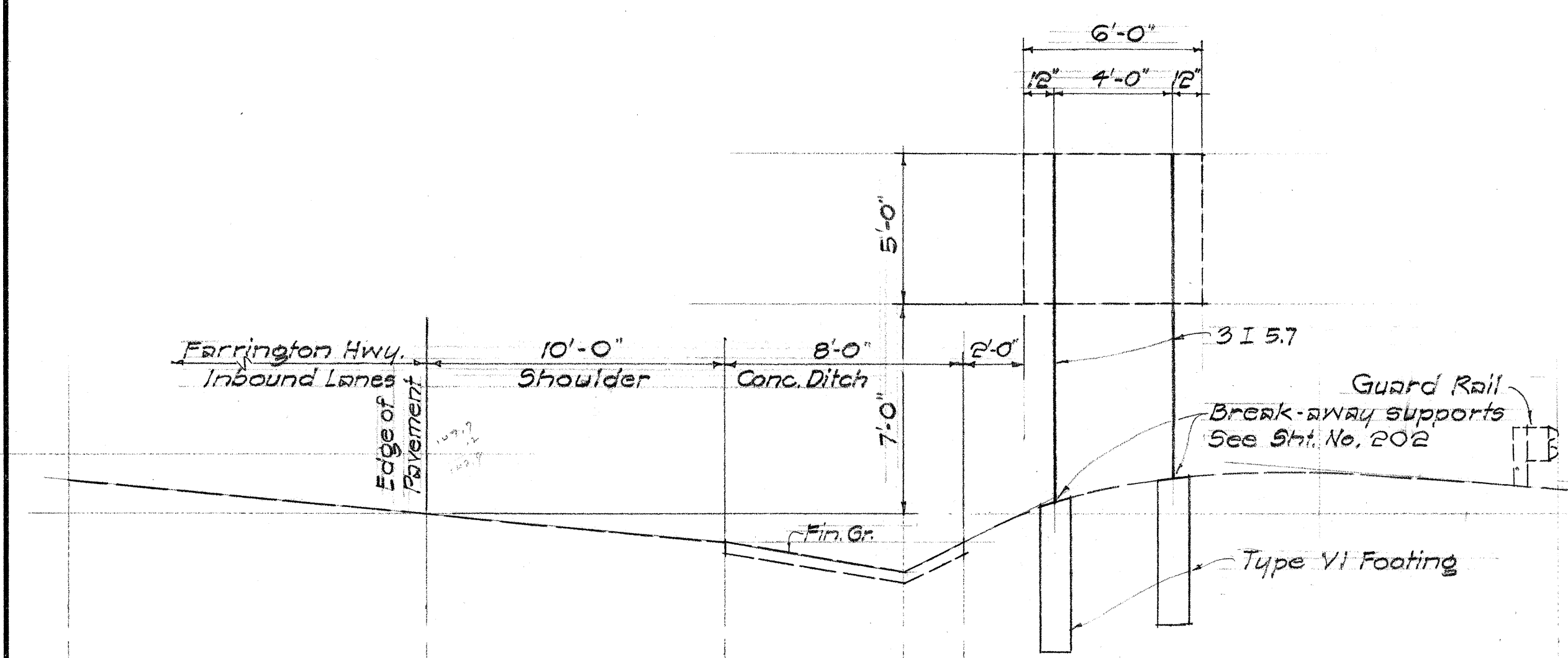


SUPPORT FOR SIGN E-25
 STA. 513+00 - H-1 O.B. = STA. 484+50.41 - H-2 O.B.
 No Scale

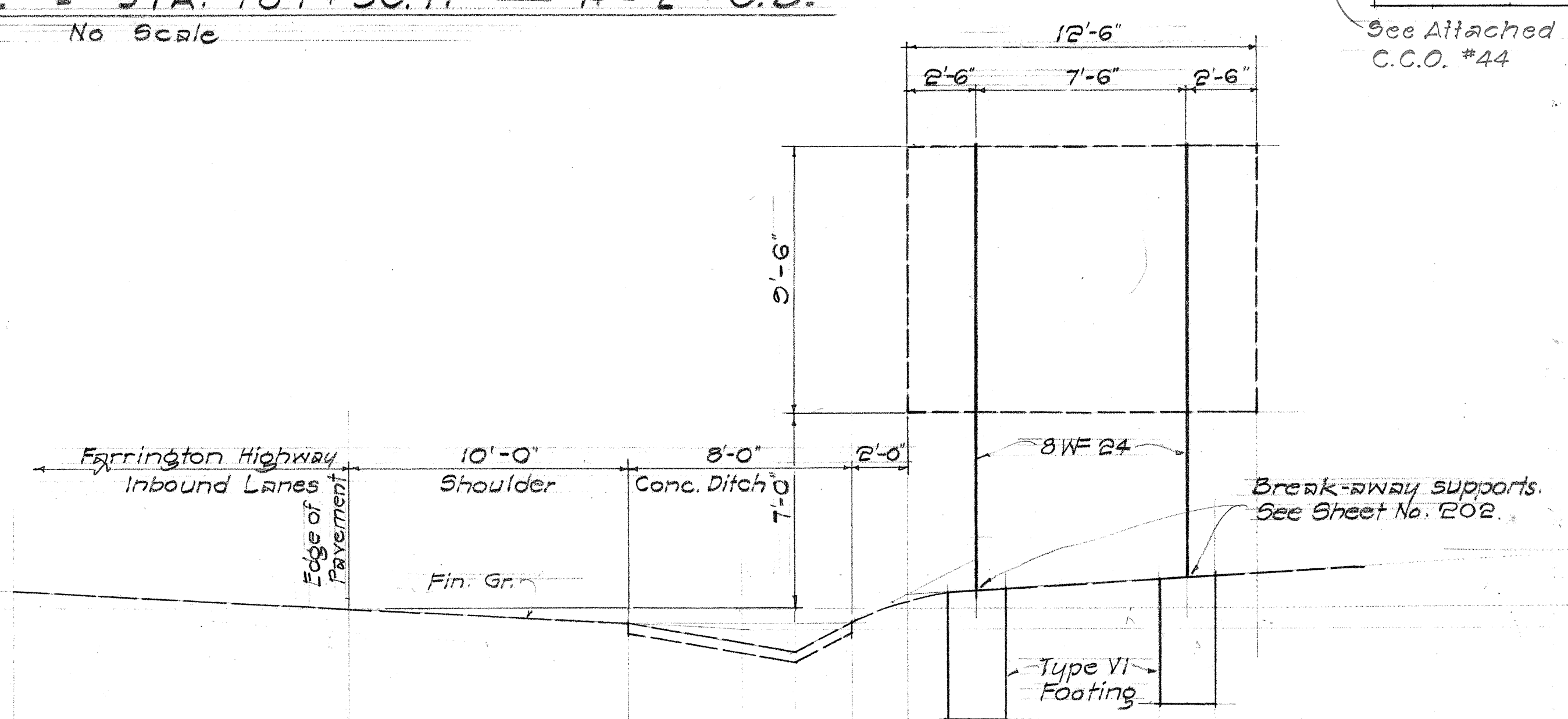


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Charles Yoon

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	



SUPPORT FOR SIGN D-2
 STA. 28+00 RT. - FARR. I.B.
 No Scale



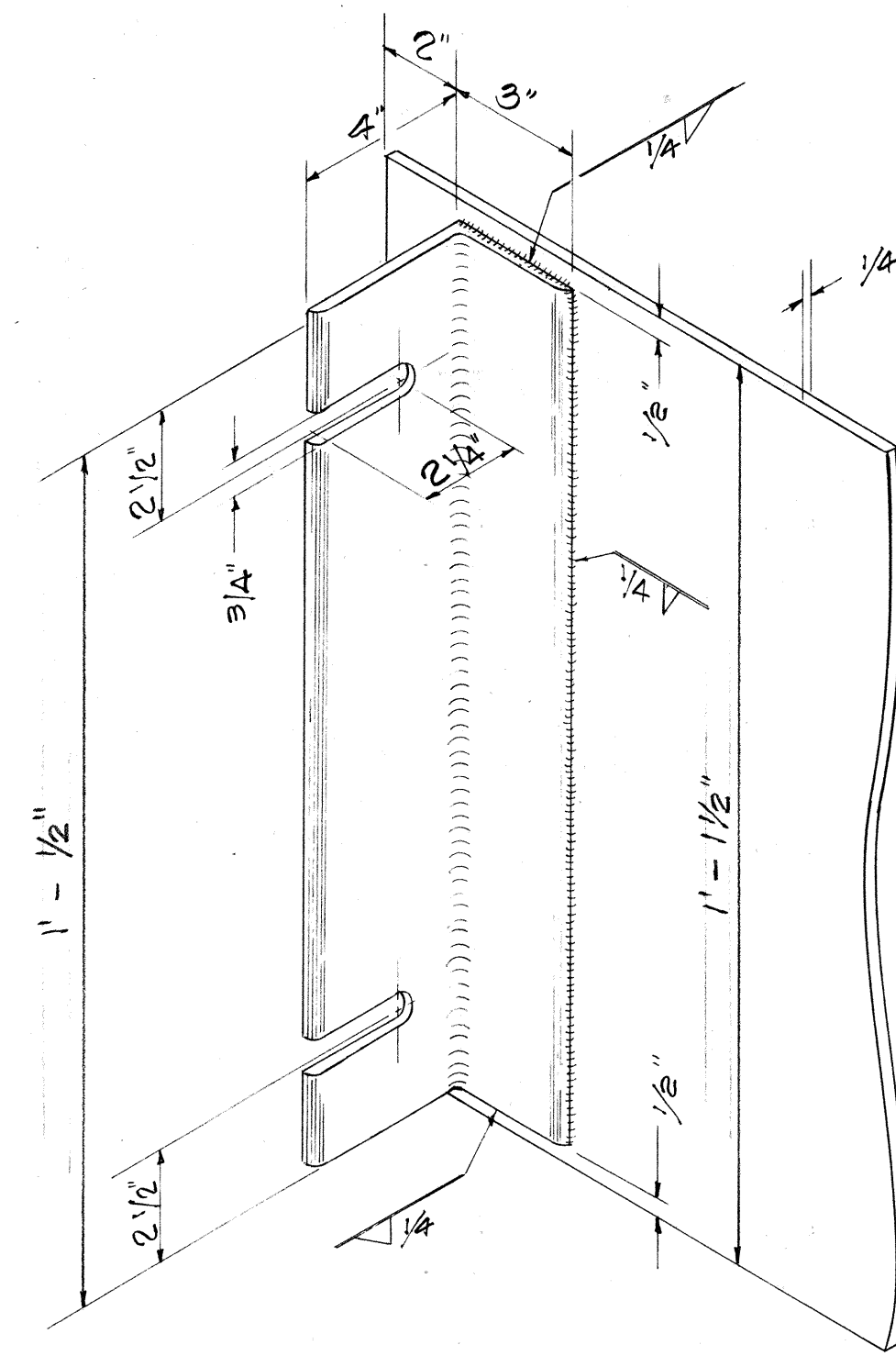
SUPPORT FOR SIGN D-3
 STA. 31+50 RT. - FARR. I. B.
 No Scale

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

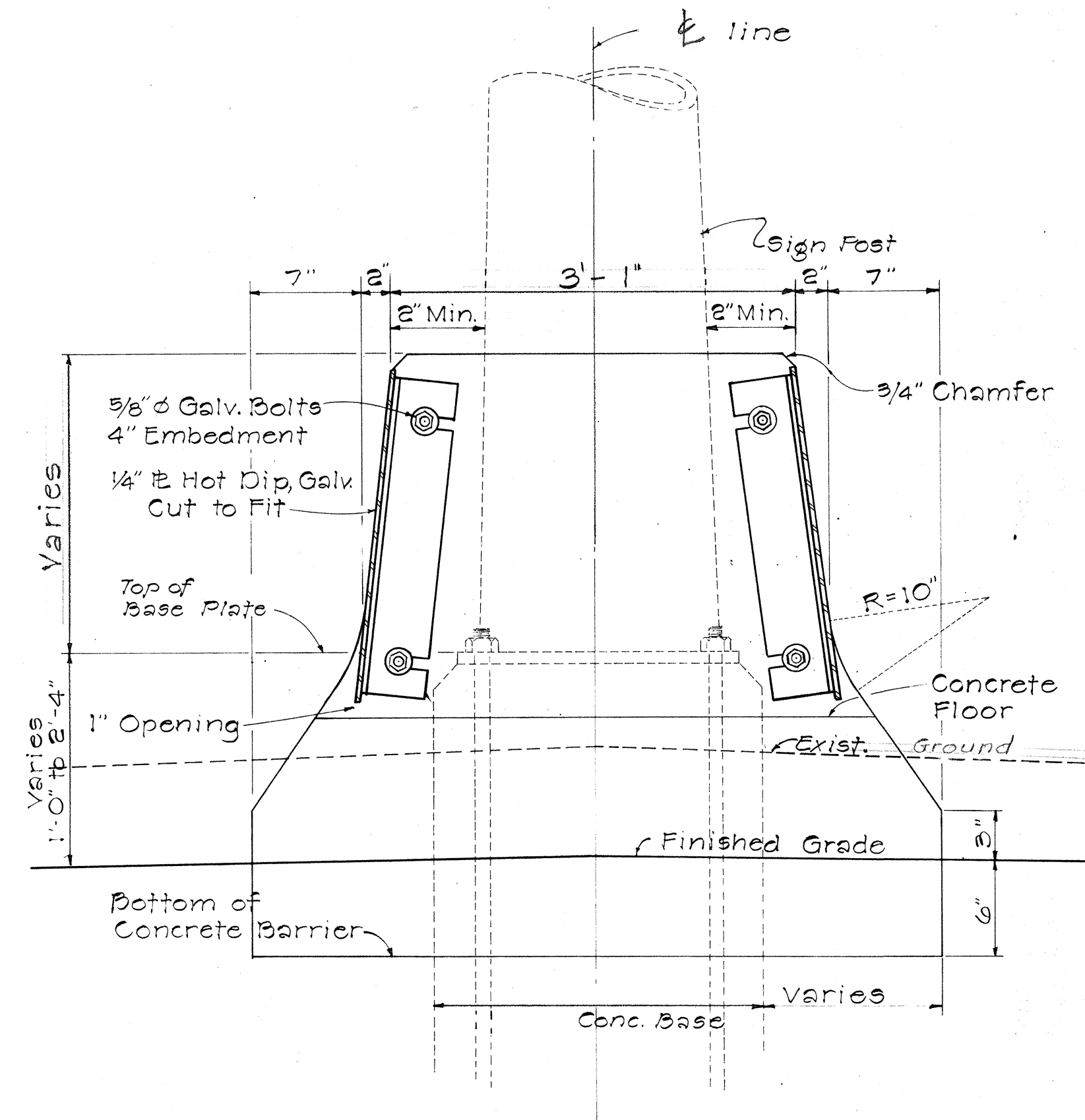
**EXPRESSWAY SIGN
 DETAILS**

F.A.I. PROJ. NO. I-HI-1(47):9
 No Scale

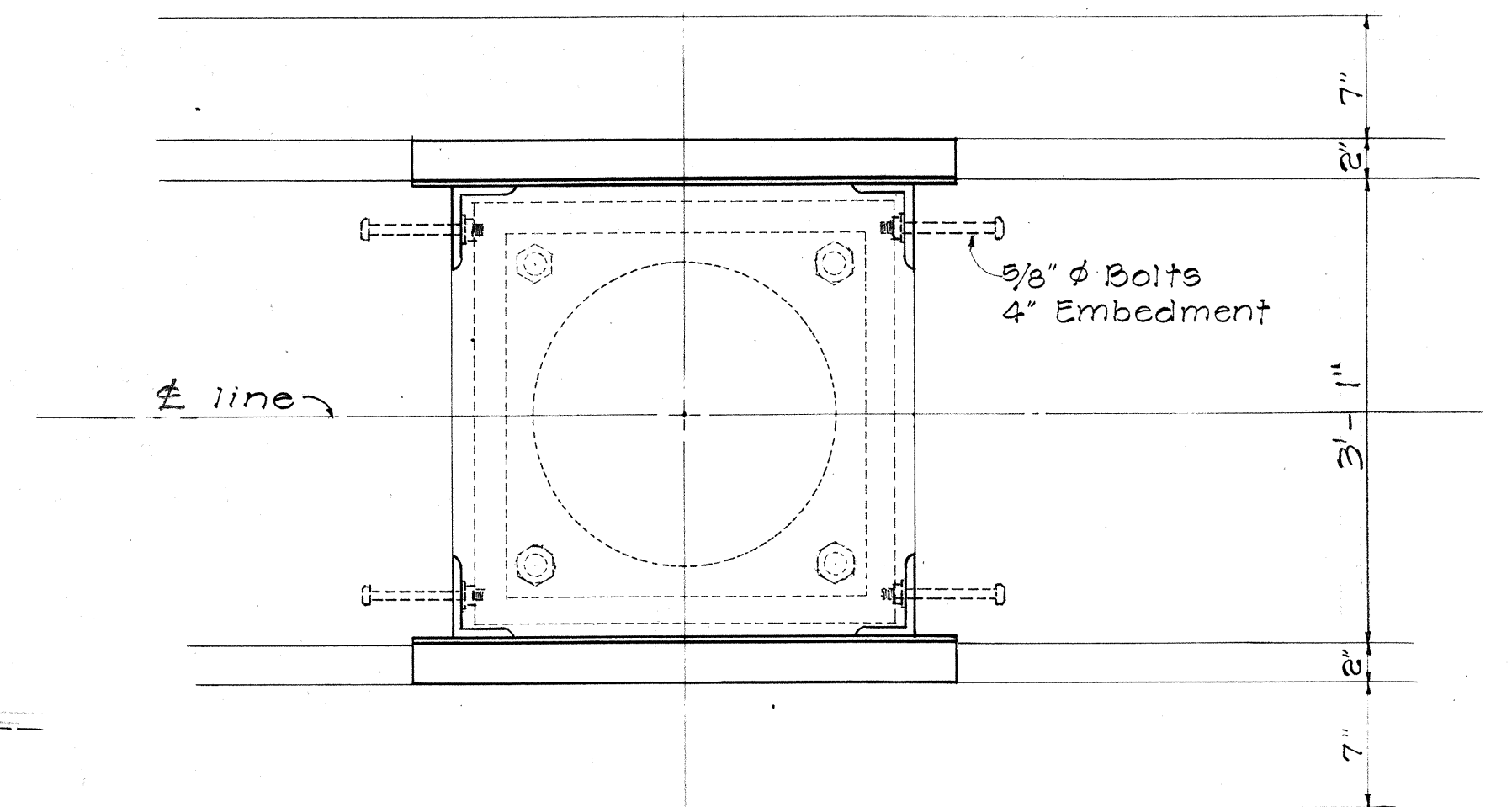
SHEET No. 6 OF 7 SHEETS



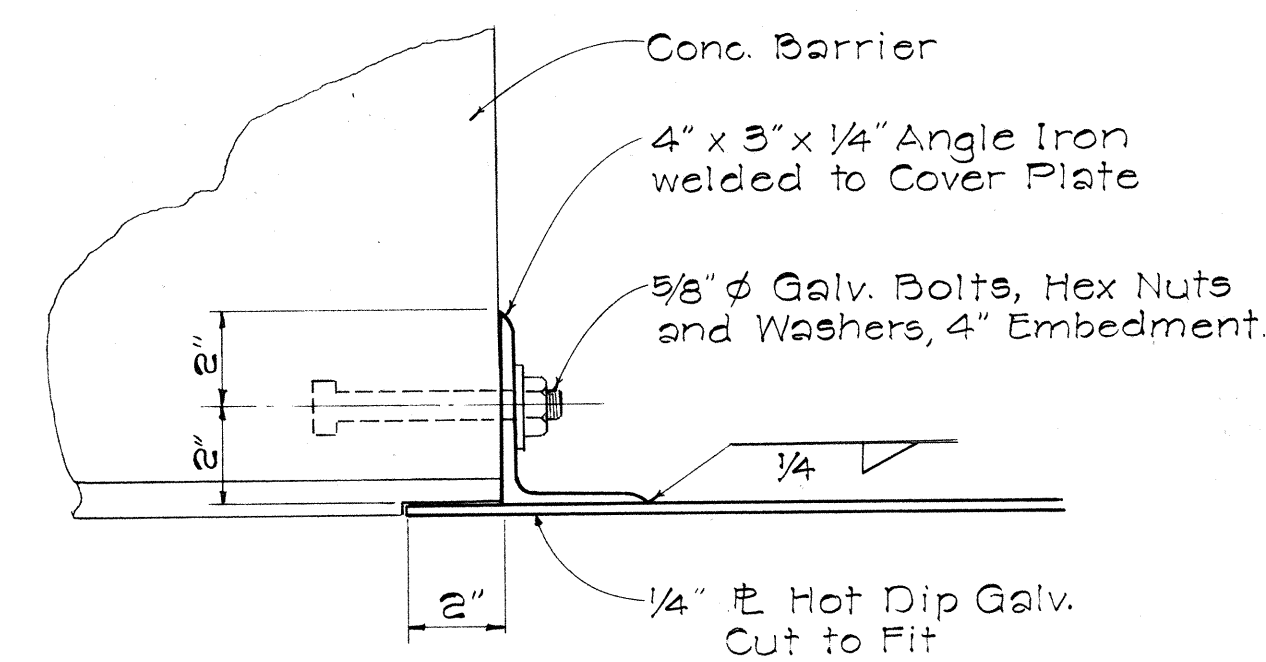
ANGLE IRON
COVER PLATE DETAIL
Scale: 3" = 1' - 0"



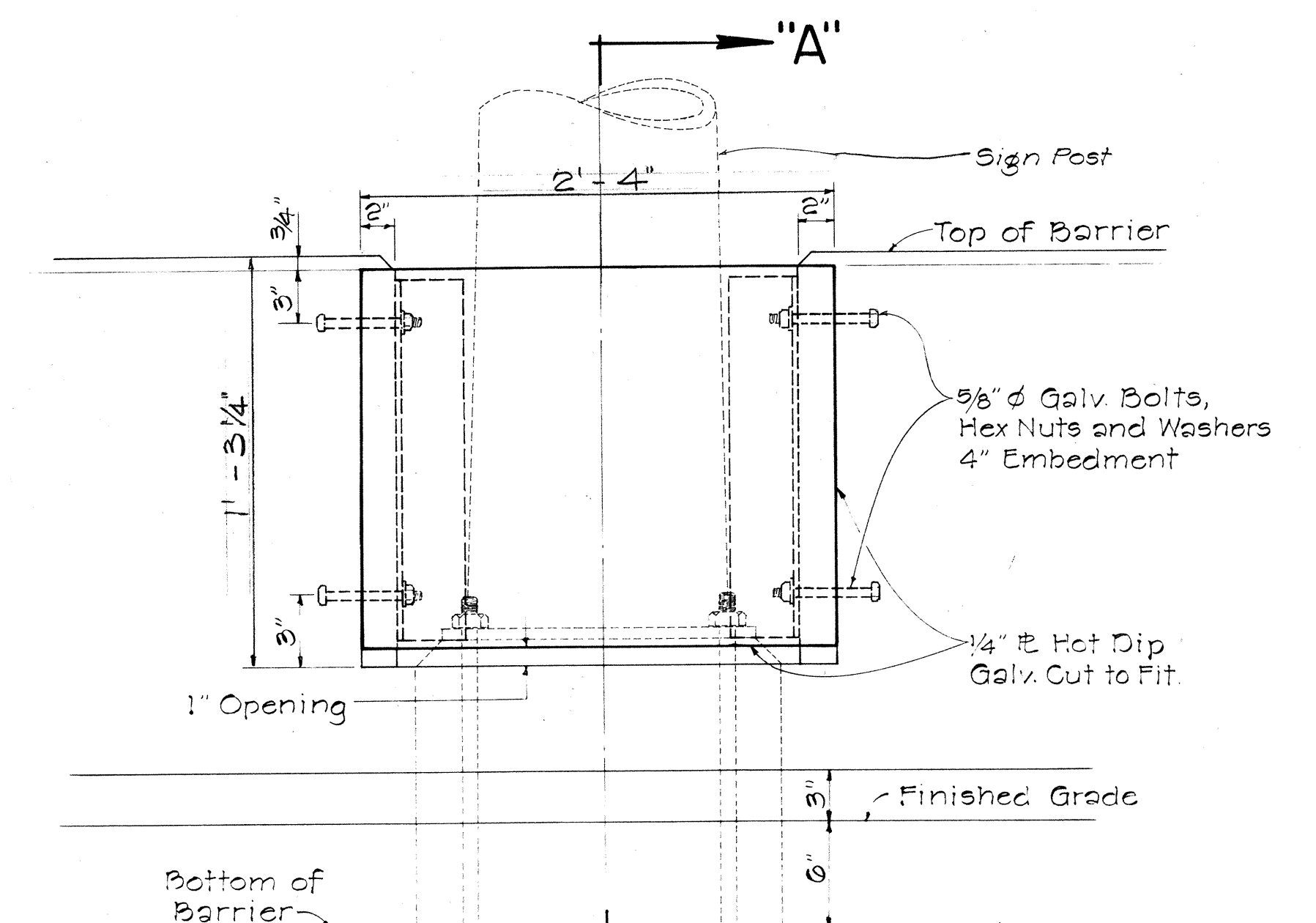
SECTION "A - A"



PLAN

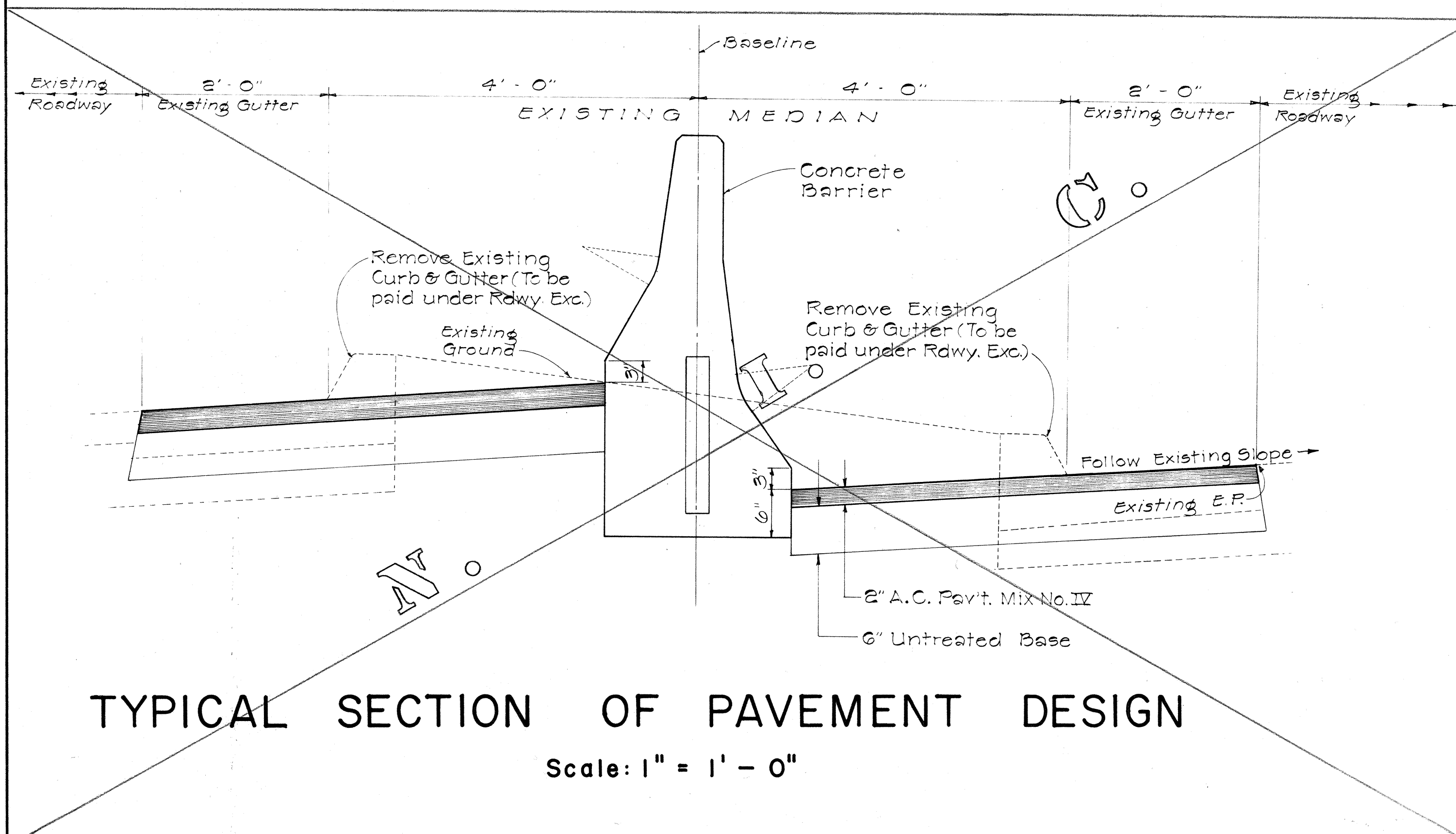


COVER PLATE ANCHOR DETAIL
Scale: 3" = 1' - 0"



ELEVATION

DETAIL OF CONCRETE BARRIER
AT EXPRESSWAY SIGN POLE
NOT TO SCALE



TYPICAL SECTION OF PAVEMENT DESIGN
Scale: 1" = 1' - 0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONCRETE BARRIER
AT EXPRESSWAY SIGN E-25

WAIANA INTERCHANGE F.A.I. PROJ. NO. I-H-147(47):2
Scale As Noted Jan. 1970
SHEET No. 1 OF 1 SHEETS

<C.C.O. #44>

JAN. 20, 1970

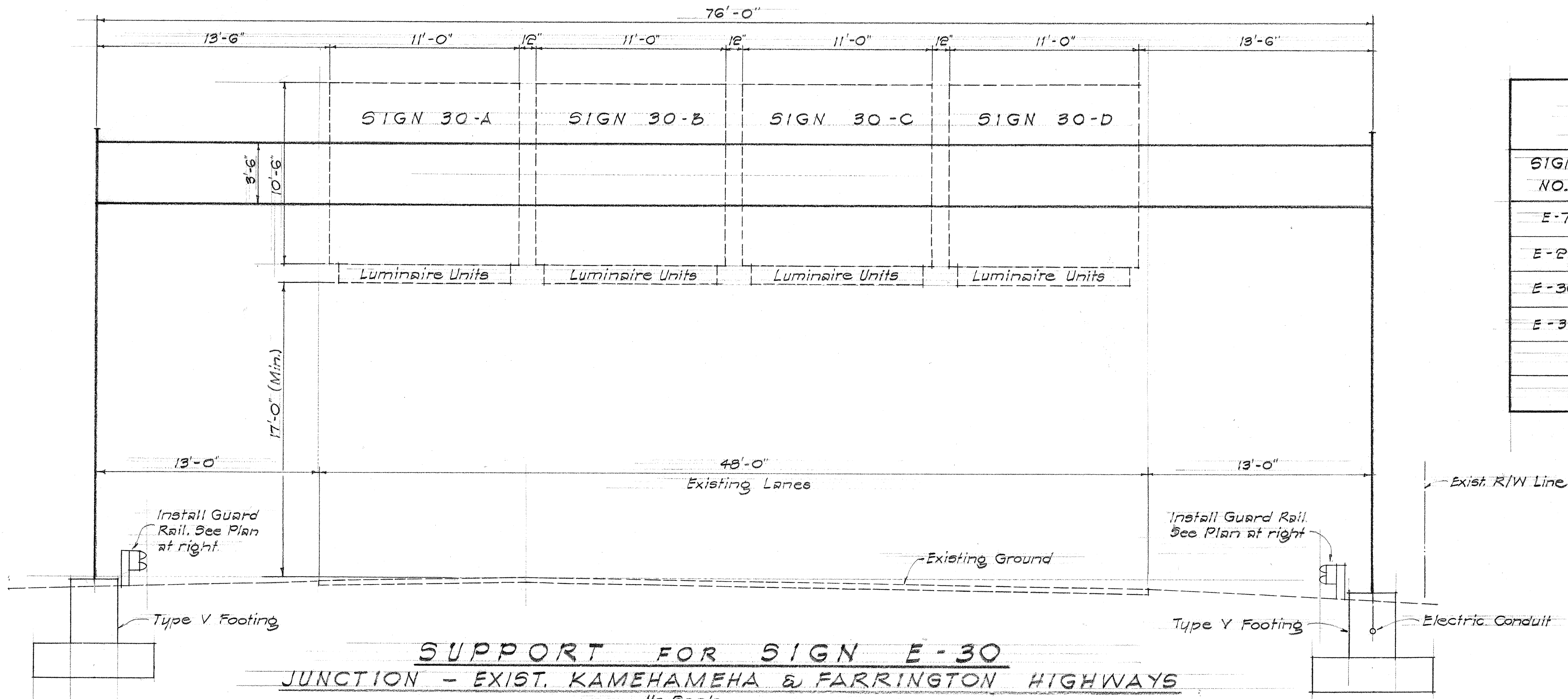
00 55 13

ORIGINAL PLAN
DATE: _____
DRAWN BY: _____
CHECKED BY: _____
NO. _____

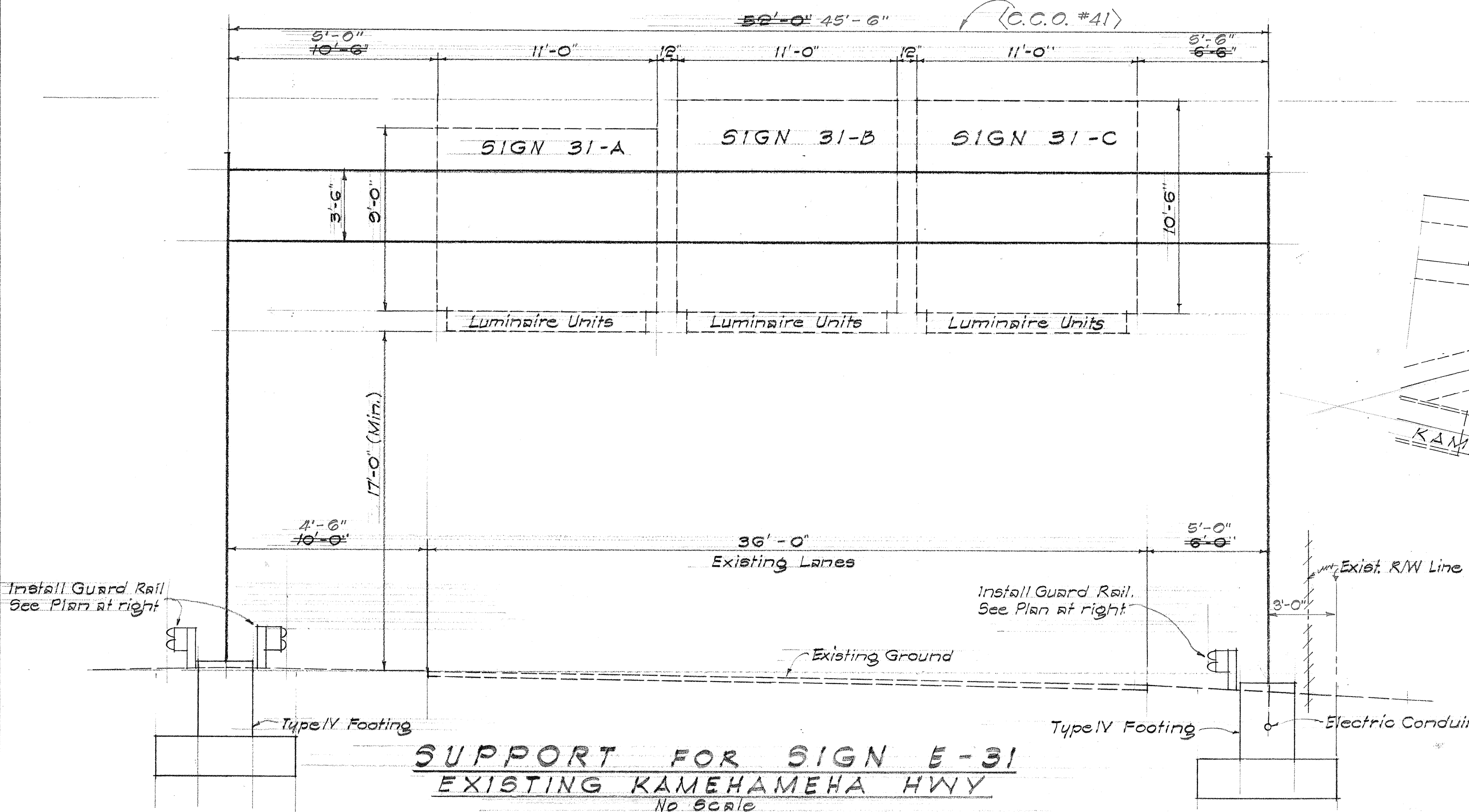
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(47):9	1968	58	227

TYPE D TWO TUBE TRUSS SPAN						
SIGN NO.	STATION	TAPERED CROSSARMS	TAPERED POST	BASE PLATE	ANCHOR BOLTS	FOOTING
E-7	21+00 Kam Conn	0 g.p. 13" dia.	0 & 0 g.p. 15"	24 1/2" x 24 1/2" x 3"	3" dia.	IV
E-25 *	48+50.41 H-20B 513+00 H-1 O.B.	0 g.p. 13" dia.	0 & 0 g.p. 18"	26" x 26" x 3"	3" dia.	V
E-30	Junction - Exist. Kam. & Farr. Hwys.	0 g.p. 16" dia.	3 & 3 g.p. 18"	26" x 26" x 3"	3" dia.	V
E-31	Exist. Kam. Hwy	0 g.p. 12" dia.	0 & 0 g.p. 15"	24 1/2" x 24 1/2" x 3"	3" dia.	IV

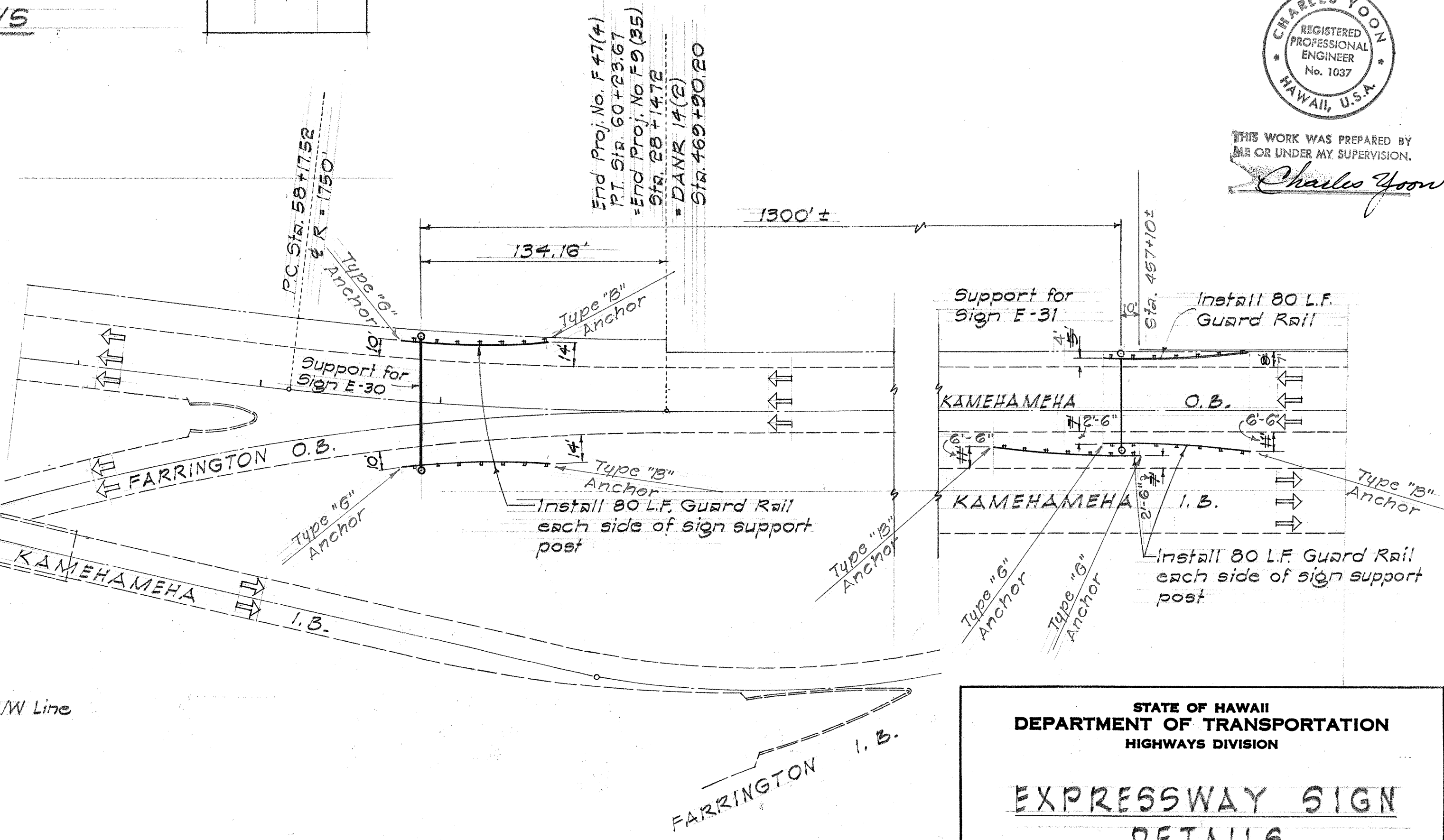
* Tri-chord crossarms



SUPPORT FOR SIGN E-30
JUNCTION - EXIST. KAMEHAMEHA & FARRINGTON HIGHWAYS
No Scale



SUPPORT FOR SIGN E-31
EXISTING KAMEHAMEHA HWY
No Scale



OFFSITE SIGNING PLAN
Scale: 1" = 50'

CHARLES YOON
REGISTERED PROFESSIONAL ENGINEER
No. 1037
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Charles Yoon

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
EXPRESSWAY SIGN DETAILS
F.A.I. PROJ. NO. I-HI-1 (47):9
No Scale
SHEET No. 7 OF 7 SHEETS

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