

Technical drawing of a rectangular road sign with rounded corners. The sign contains the text "LULUKU" on the top line and "RD" followed by a right-pointing arrow on the bottom line. Dimensions are provided for the sign's overall size and the spacing between the text.

Overall dimensions: 3'-6" (width) x 2'-0" (height).

Text dimensions and spacing:

- Text "LULUKU" width: 29 3/4"
- Text "RD" width: 11 9/16"
- Arrow width: 9 1/2"
- Spacing between "LULUKU" and "RD": 5 1/4"
- Spacing between "RD" and the arrow: 9 9/16"
- Spacing between the arrow and the right edge: 6 1/8"
- Spacing between the left edge and "LULUKU": 6 1/8"
- Spacing between the left edge and "RD": 4"
- Spacing between "RD" and the bottom edge: 4"
- Spacing between the arrow and the bottom edge: 7"
- Spacing between the right edge and the arrow: 8 1/16"

Technical drawing of a rectangular sign with dimensions and text. The sign is oriented horizontally. The overall dimensions are 4'-0" in width and 2'-0" in height. The sign has a double-line border. The text "MOKULELE" is written in large, bold, sans-serif capital letters across the top half, and "DR" is written in large, bold, sans-serif capital letters across the bottom half. The drawing includes dimension lines and arrows indicating the measurements. The width is divided into three sections: 3 7/8" on the left, 40 1/4" in the middle, and 3 7/8" on the right. The height is divided into three sections: 4" on the left, 6" in the middle, and 4" on the right. A small dimension of 9 1/2" is shown at the bottom center, likely indicating the distance from the bottom edge to the center of the sign.

Technical drawing of a mechanical part with the following dimensions:

- Overall width: $39\frac{1}{16}"$
- Overall height: $3\frac{7}{16}"$
- Top horizontal segment: $57\frac{1}{16}"$
- Left vertical segment: $2\frac{15}{16}"$
- Inner horizontal segment: $5\frac{5}{8}"$
- Inner vertical segment: $2\frac{5}{16}"$
- Bottom-left corner: $1\frac{1}{2}" R$

Unbalanced Installation

Varies

R/W Line

Hwy. Lt. Std.

10'-0" Min.

Sidewalk

Kamehameha Hwy.
To Pali Hwy

Unbalanced Installation

Varies

2 1/2" x 2 1/2" x 10 Ga. Galv. Sq. Tube Post or Flanged Channel Post

10'-0" Min.

Sidewalk

Kamehameha Hwy. To Pali Hwy

slope Varies

R/W Line

Technical drawing of a rectangular street sign with rounded corners. The sign features the text "MAHINUI" on the top line and "RD" on the bottom line, followed by a right-pointing arrow. Dimensions are provided in feet and inches:

- Overall Dimensions:** 3'-6" wide by 2'-0" high.
- Top Edge:** Divided into three sections: 5 1/4" (left), 31 1/2" (center), and 5 1/4" (right).
- Left Edge:** Divided into four sections: 4" (top), 6" (second), 4" (third), and 4" (bottom).
- Right Edge:** Divided into two sections: 7" (top) and 8 1/16" (bottom).
- Bottom Edge:** Divided into five sections: 12 1/16" (left), 31/2" (second), 5 1/4" (third), 39 1/16" (fourth), and 5 1/4" (right).

Technical drawing of a street sign for Halekou Rd. The sign is rectangular with rounded corners, featuring the text "HALEKOU" on the top line and "RD" on the bottom line, followed by a right-pointing arrow. Dimensions are provided in feet and inches. The overall width is 4'-0", with 6 1/8" margins on the left and right. The overall height is 2'-0", with 4" margins on the top and bottom. Spacing between the text and the arrow is 9 1/2". The sign is mounted on a post with a 7" offset from the right edge.

Area outside
Corner Radius
need not be
trimmed



Unbalanced Installation

Hwy. Lt. Std.

2'-0" Min.

10'-0" Min.

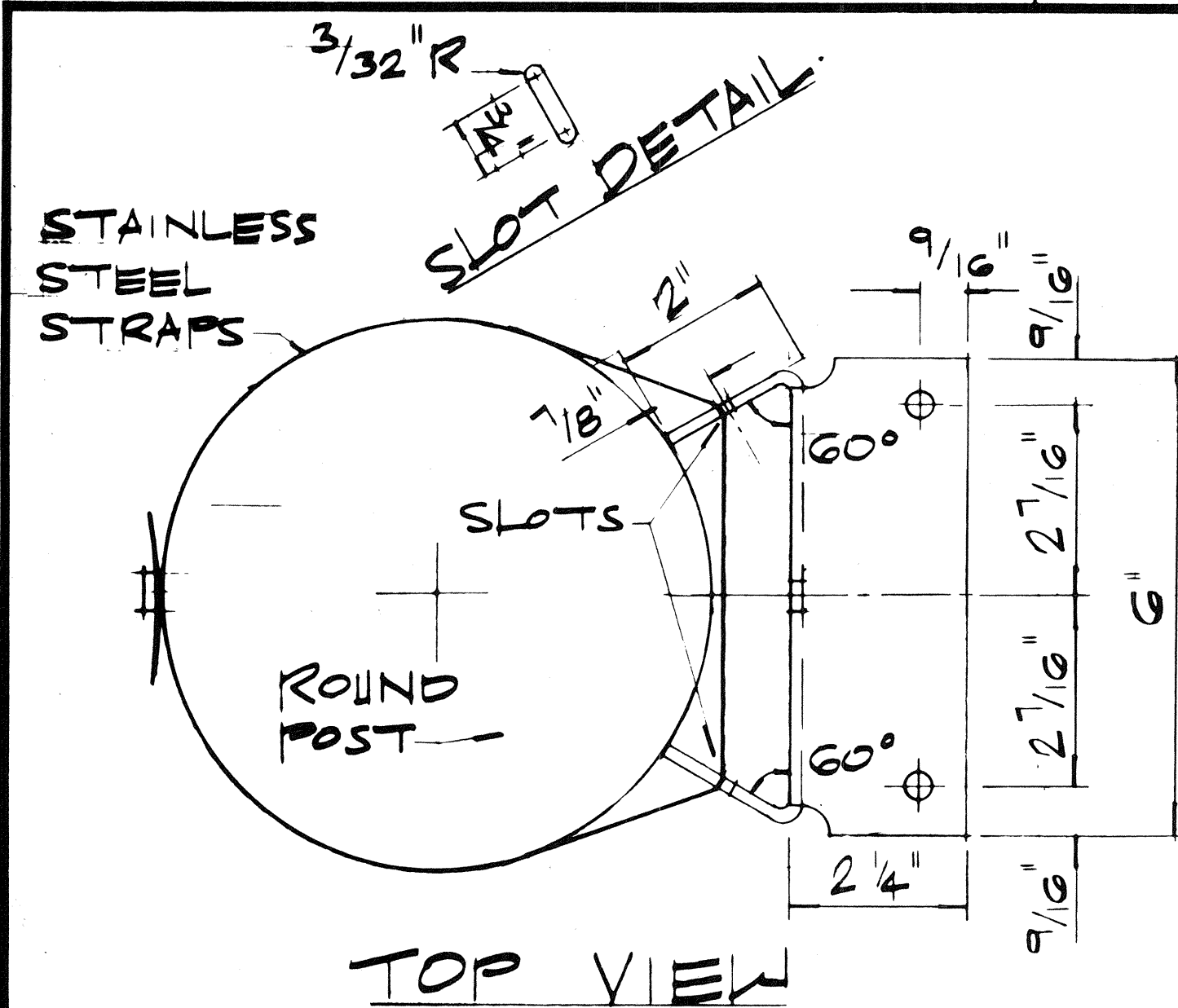
Kamehameha Hwy.
Kaneohe Bound

Diagram illustrating the installation of a median post:

- Post Dimensions:** The post is labeled as $2\frac{1}{2}" \times 2\frac{1}{2}" \times 10$ Ga. Galv. Sq. Tube Post or 4.00 lbs./ft. Flanged Channel Post.
- Installation:** The post is shown in an "Unbalanced Installation" position.
- Dimensions:**
 - The total height of the post is $10'-0"$ Min.
 - The height of the flange is $2'-0"$ Min.
- Location:** The post is located near the "Median" and "Karehamema Hwy." (Kareoke Bound).
- Notes:**
 - The "Slope" is noted as "Varies".
 - The "Median" is indicated by a line.

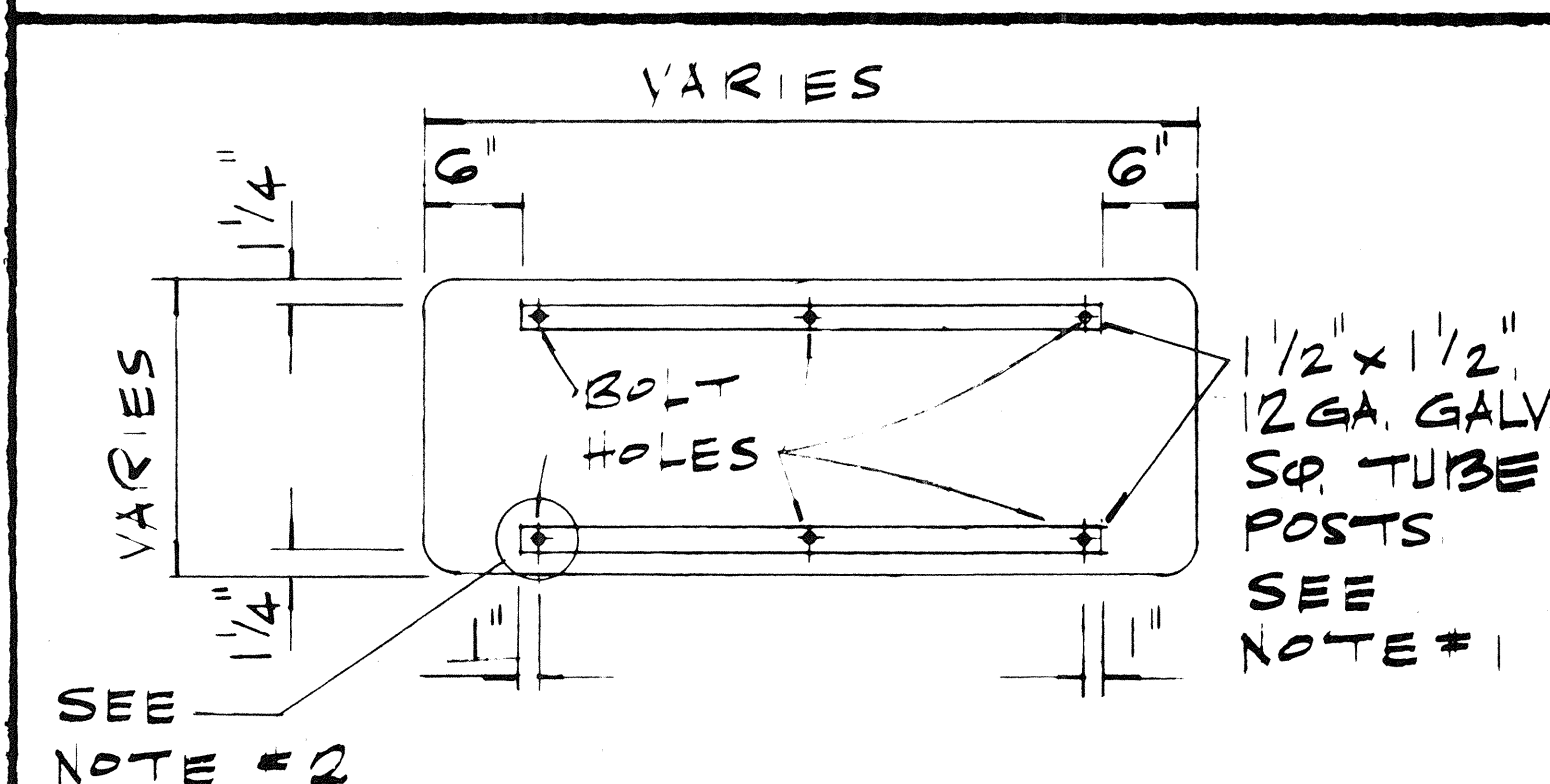
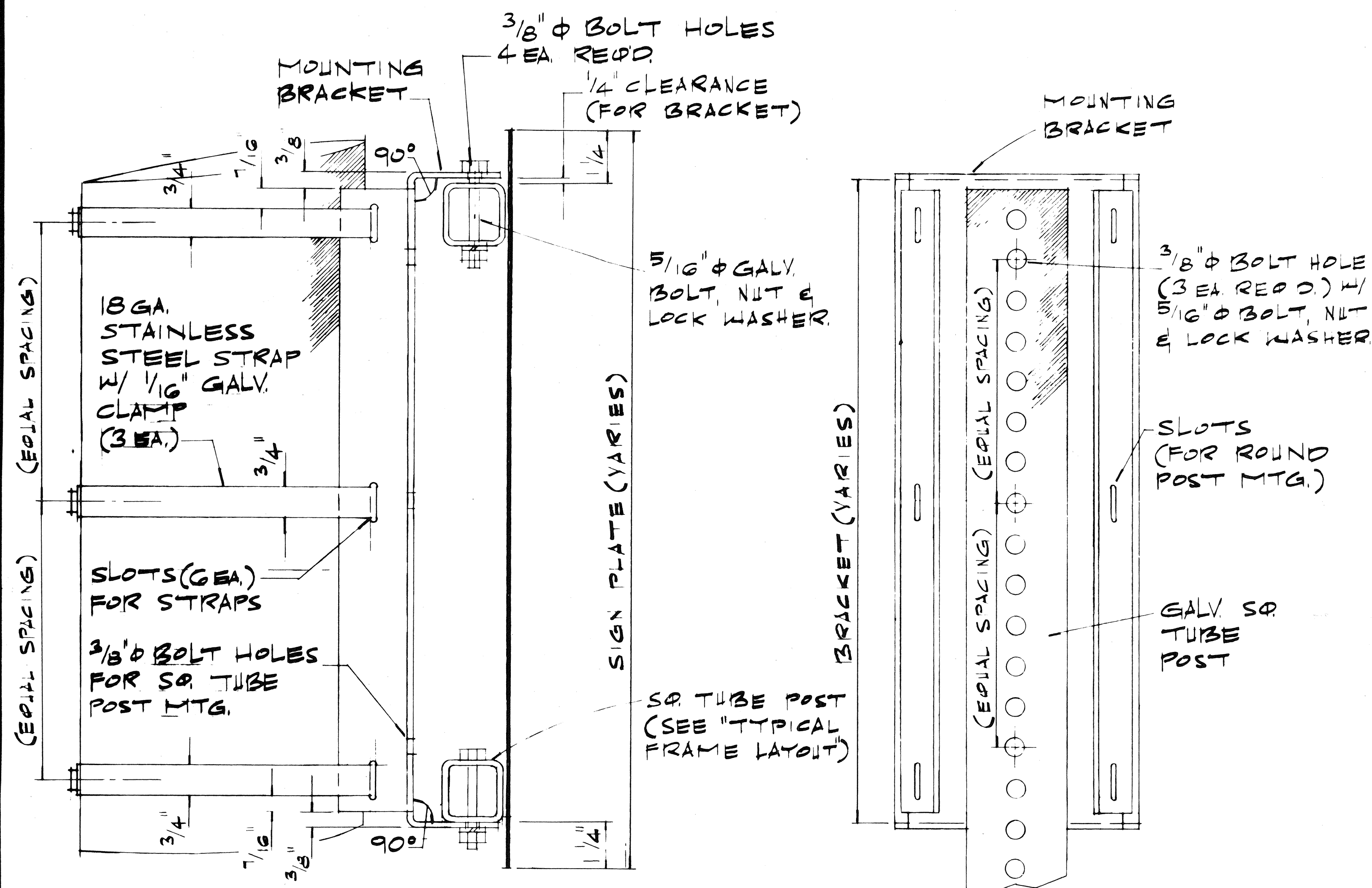
16

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63G-01-83M	1988	17	18



NOTE

1. MATERIAL TO BE 12 GA. HOT ROLLED STEEL SHEET, LOW CARBON, COMMERCIAL QUALITY, SPECIFICATIONS QPS-636, GRADE 1010.
2. BRACKET TO BE HOT DIPPED GALV. AFTER FABRICATION PER SPECIFICATION ASTM-A-123-68.
3. ALL BEND RADI TO BE $\frac{1}{8}$ ".
4. DEBURR ALL SHARP EDGES
5. TOLERANCES: DIMENSIONS, $\pm \frac{1}{32}$ "
ANGLES, $\pm 0^{\circ}-30'$



TYPICAL FRAME LAYOUT

SCALE: 1" = 1'-0"

NOTE:

1. SO TUBE POSTS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.
2. SIGN PANEL SHALL BE ATTACHED TO SO TUBE POST WITH 5/16" ϕ GALV. BOLT, NUT, LOCK WASHER & 7/8" x 0.06" STAINLESS STEEL FLAT WASHER WITH NEOPRENE RUBBER GASKET.

SIDE VIEW

(ROUND POST MOUNTING)

BACK VIEW

(SO TUBE POST MOUNTING)

MOUNTING BRACKET FOR UNBALANCED SIGN INSTALLATION

HALF SCALE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

UNBALANCED SIGN INSTALLATION

KAMEHAMEHA HWY. RESURFACING
KANEHOE BAY DR. TO KAHIKO ST.
PROJECT NO. 83G-01-88M

Scale: As Shown Date: March, 1988

SHEET No. 77 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83G-01-88M	1988	18	18

TRAFFIC SIGN SUMMARY				
SIGN NO.	MESSAGE	QUANTITY		
		w/Post	w/o Post	Relocate
R1-1	STOP	6	2	1
R1-2	YIELD	2		
R2-1(35)	SPEED LIMIT	8	3	
R3-2	TURN PROHIBITION (NO LEFT TURN)	2		
R3-4	U-TURN PROHIBITION (NO U-TURN)	3		
R3-7(R)	LANE USE CONTROL	1		
R4-7	KEEP RIGHT	4		
R4-8	KEEP LEFT	3		
R5-1	DO NOT ENTER	1		
R6-1(R)	ONE WAY (RIGHT)	6		
R6-1(L)	ONE WAY (LEFT)		1	
R7-1	NO PARKING ANY TIME	41	14	
R7-107b	NO PARKING BUS STOP		2	
R16-6	U-TURN AHEAD	5		
R16-7	U-TURN OK	4		
R17-1	INTERSECTION SIGN- ON LEFT ARROW ONLY	1	2	
R17-3	INTERSECTION SIGN- ON LEFT ARROW ONLY- NO U-TURN	1		
W2-1	CROSS ROAD SIGN		2	
W11-2-A	ADVANCE CROSSING SIGN	2		
W11A-2-A	CROSSING SIGN	2		
W12-1	DOUBLE ARROW SIGN	1		
W14-2	DEAD END SIGN- NO OUTLET	1		
S1-1	SCHOOL ADVANCE SIGN	1	1	

ROUTE MARKER SUMMARY		
TYPE	DESCRIPTION	QUANTITY
M1-6(83)	STATE ROUTE MARKER-83	3
M1-6(63)	STATE ROUTE MARKER-63	1
M3-1	AUXILIARY MARKER-EAST	1
M6-1(L)	AUXILIARY MARKER ←	2

REFLECTOR MARKER SUMMARY		
TYPE	QUANTITY	
	w/Post	w/o Post
RM-3	3	7

PAVEMENT MARKING SUMMARY	
DESCRIPTION	QUANTITY
PAVEMENT MARKERS (Ea.)	
Type A	1,400
Type CL	700
Type DL	25
Type HL	350
TAPE ~ TYPE I (L.F.)	
4-inch Pavement Stripe (White)	1,750
4-inch Pavement Stripe (Yellow)	1,450
8-inch Pavement Stripe (White)	5,200
Double 4-inch Pavement Stripe (Yellow)	400
Pavement Arrows (Ea.)	62
TAPE ~ Type II or THERMOPLASTIC EXTRUSION (L.F.)	
4-inch Pavement Stripe (White)	11,800
4-inch Pavement Stripe (Yellow)	12,000
THERMOPLASTIC EXTRUSION (L.F.)	
12-inch Pavement Stripe (White)	800
Crosswalk Markings (Lane)	94

ADVANCE STREET NAME SIGN SUMMARY					
TYPE	LOCATION	DESCRIPTION	SIZE	QUANTITY	
				w/Post	w/o Post
D3-1(R)	8+80±(R#)	LULUKU RD. →	2'-0" x 3'-6"		1
D3-1(L)	15+00±(L#)	LULUKU RD. ←	2'-0" x 3'-6"	1	
D3-2	32+25±(R#)	MOKULELE DR.	2'-0" x 4'-0"	1	
D3-2	39+20±(L#)	MOKULELE DR.	2'-0" x 4'-0"		1
D3-3(R)	39+00±(R#)	MAHINUI RD. →	2'-0" x 3'-6"		1
D3-3(L)	46+00±(L#)	MAHINUI RD. ←	2'-0" x 3'-6"	1	
D3-4(R)	53+20±(R#)	HALEKOU RD. →	2'-0" x 4'-0"		1
D3-4(L)	56+75±(L#)	HALEKOU RD. ←	2'-0" x 4'-0"	1	

RELOCATION OF EXISTING STREET NAME SIGNS	
DESCRIPTION	QUANTITY
LULUKU RD.	1
KOA KAHIKO ST.	1
DUNCAN DR.	1
DUNCAN DR.	1
PUAHUULA PL.	1
UALANI PL.	1
MAHINUI PL.	1
HALEKOU RD.	1

CONSTRUCTION SIGN SUMMARY				
SIGN NO.	MESSAGE	QUANTITY		
		w/Post	w/o Post	Relocate
CW20-1d	CONSTRUCTION AHEAD	3	-	-
CG20-2	END CONSTRUCTION	3	-	-

DESTINATION SIGN SUMMARY				
TYPE	LOCATION	DESCRIPTION	SIZE	AREA (Sq. Ft.) OVERLAY
D-1	SB. 4E St 2. 5+50±(L#)	KANEOHE → ← HONOLULU 8, KANEOHE MCAS 5 →	0'-0" x 7'-0"	63

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
MISCELLANEOUS SUMMARIES
KAMEHAMEHA HWY. RESURFACING KANEOHE BAY DR. TO KAHIKO ST. PROJECT NO. 83G-01-88M
Not to Scale Date: Apr, 1988
SHEET No. 78 OF 8 SHEETS

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