

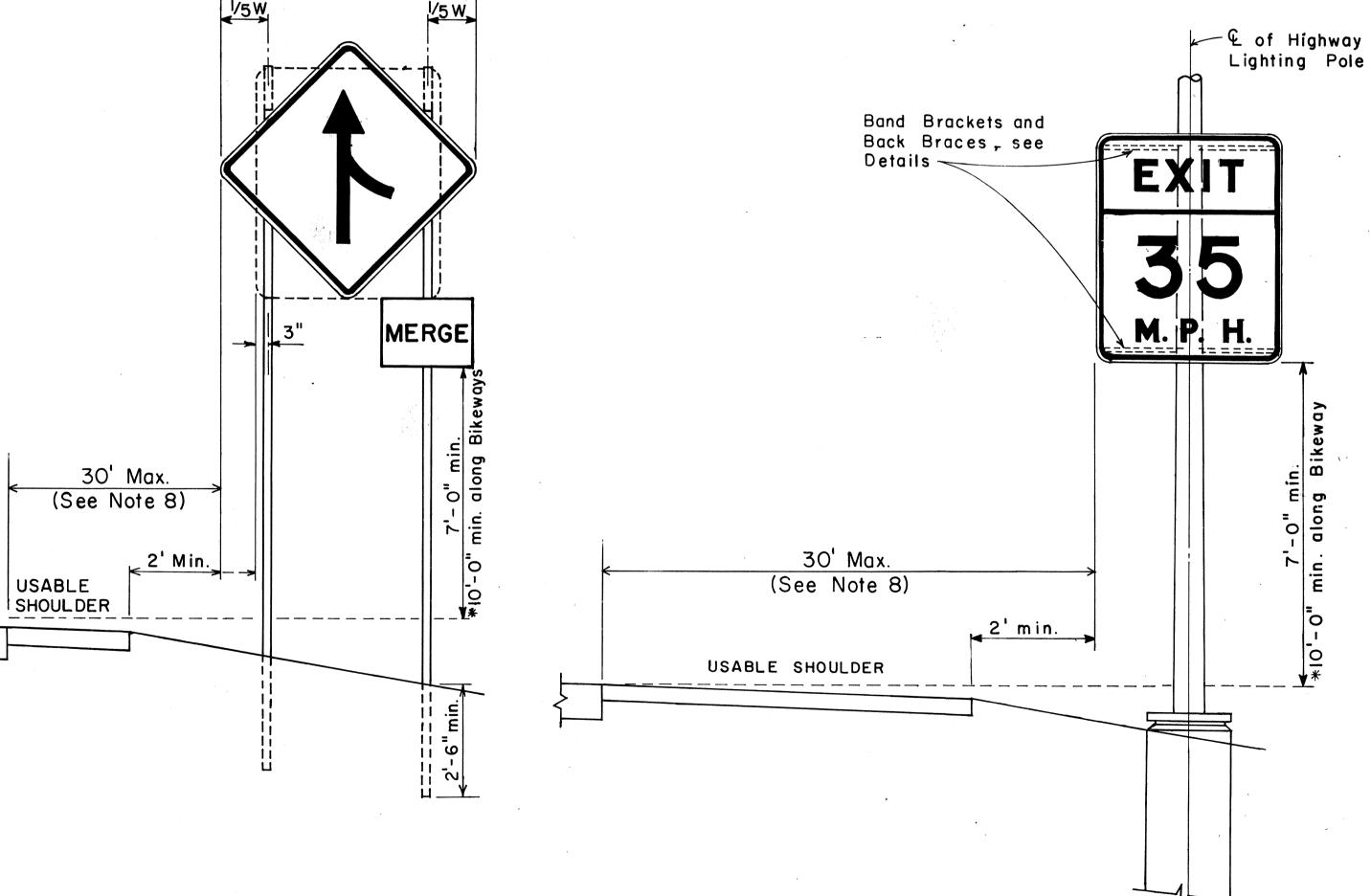
PLAN Back braces shall be used in conjunction with band brackets Varies 1"x 3/16" strap steel-3/8" x 13/4" slot **ELEVATION**

BACK BRACE DETAILS FOR BALANCED SIGN INSTALLATION

FED. ROAD DIST. NO. YEAR HAW. 450B-01-80M

GENERAL NOTES

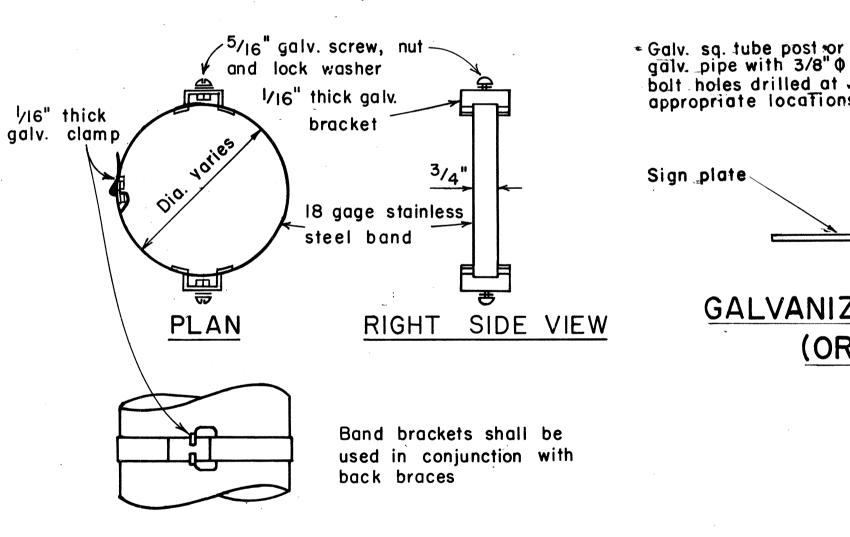
- I. Signs 48" and wider or larger than IO sq. ft. in area shall be mounted on two sign posts.
- 2. All signs larger than 10 sq. ft. in area or 48" inches and wider, and mounted on other than two posts supports (i.e., on highway lighting poles) shall have at least two sets of band brackets and back braces.
- 3. All signs 28 sq. ft. in area or larger and mounted on other than two posts supports (i.e., on highway lighting poles) shall have at least three sets of band brackets and back braces.
- 4. All parking restriction signs with arrows shall be mounted 45° to the line of traffic flow.
- 5. Sign posts shall extend 31/2" above sign where required for City and County street name signs.
- 6. (R) or (L) indicates right or left and shall be as shown on the plans.
- *7. See plans for special details.
- 8. When clear roadside recovery areas are provided, Signs shall be placed as far from the edge of traveled way as possible up to a maximum of 30 feet. When possible they shall be placed in protected locations.
- 9. Signs in medians shall be placed at midpoint of median up to a maximum distance of 30 feet from the edge of traveled way. When appropiate, signs for opposing directions shall be placed back to back.



AND LATERAL LOCATION OF

TYPICAL INSTALLATION

SIGNS



LEFT SIDE VIEW

BAND BRACKET

TYPICAL MOUNTING DETAILS

NOT TO SCALE

APPROVED BY DATE **REVISION** Supercedes Sht. DT-100 1/15/17 HI approved 12/30/69 2 Revised depth of signpost 5/18/79 3 Added Notes No. 8 & No. 9 Revised Gen. Note #4 8
Mounting Details H. 423/80

Lock washer appropriate locations. .5/16" ф x 3" galv. bōlt, nut, lock washer & 7/8" x 0.06" stainless steel flat washer with neoprene rubber gasket

SQUARE TUBE POST GALVANIZED (OR GALVANIZED PIPE)

> APPROVAL RECOMMENDED U/10/77 DATE TRAFFIC ENGINEER APPROVED:

Hurbert 2. Dal Eishi

11/15/17 ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

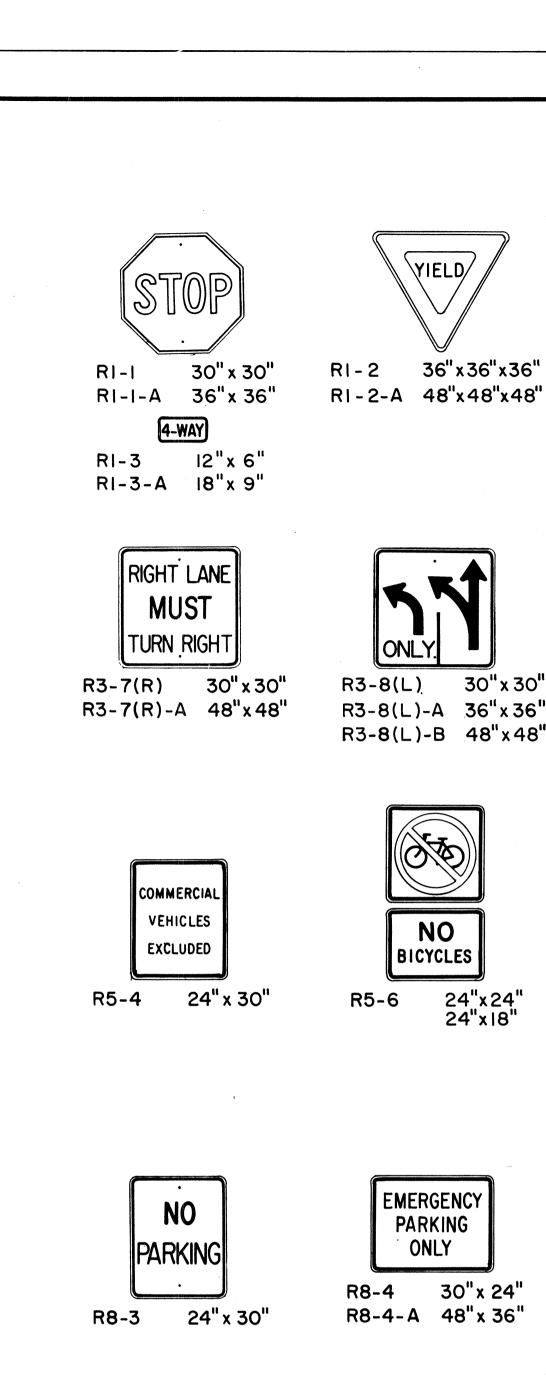
STANDARD DETAILS MISCELLANEOUS SIGN DETAILS

Not to scale

June, 1977 SHEET NO. 2 OF 9 SHEETS DT 100

K-E D TRAOING PAPER

HEIGHT



PUSH BUTTON

SIGNAL

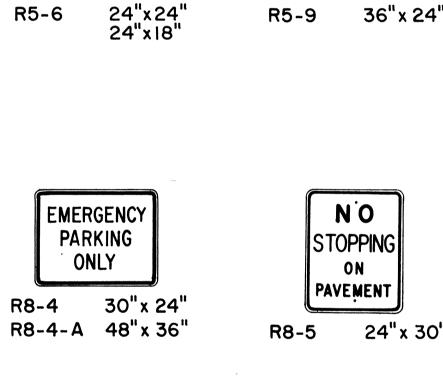
RIO-4 9"x 12"

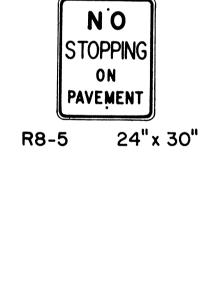
KEEP

OFF

MEDIAN

24"x 30"





SPĖED

LIMIT

R2-I(50) 24"x 30"

R2-I(50)-A 48"x 60"

LANE

LEFT

TURN

ONLY

WRONG

WAY

24"x **30**"

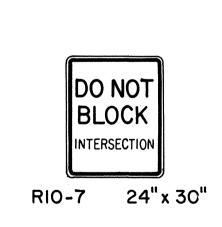
YIELD/

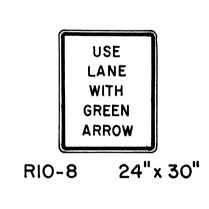
R3-8(L) 30"x30"

R3-8(L)-A 36"x36"

R3-8(L)-B 48"x48"

BICYCLES





ROAD CLOSED

THRU TRAFFIC

RI1-4 60" x 30"

SPEED LIMIT

50

MINIMUM

PASS

R4-2 24" x 30'

WAY

R6-2(R) 18"x24"

EMERGENCY

STOPPING

ONLY

R8-7 30" x 24"

R8 7-A 48"x 36"

R2-4a(50/40) 24"x48" R2-5b(30) 24"x30"

R2-4a(50/40)-A 48"x96" R2-5b(30)-A 48"x60"

SPEED

30

M.P.H.

SLOWER

TRAFFIC

KEEP

RIGHT

R4-3 24" x 30"

R4-3-A 48"x 60"

PARKING

TIME

R7-1 12"x 18"

R7-1-A 24"x 30"

WALK

ON LEFT

FACING

TRAFFIC

R9-1

18" x 24"

TRUCKS

40

R2-2(40) 24"x 24"

R2-2(40)-A 48"x48"

NOT

PASS

R4-1 24"x 30"

ONE WAY

R6-I (R) 36"x 12"

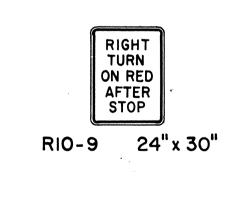
NO

STOPPING

EXCEPT ON

SHOULDER

R8-6 24"x\30"

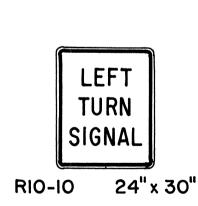


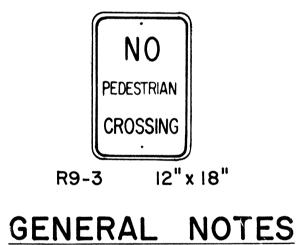
WEIGHT

LIMIT

TONS

RI2-1(10) 24"x30"





NO LEFT

R3-2 24"x24"

R3-2-A 48"x48" 48"x36"

TRÜCK

LANE

500

FEET

R4-6(500) 24"x 30"

STOP

R7-107(R) 12"x18"

24"x 18"

NO RIGHT TURN

R3-I-A 48"x48" 48"x36"

TRUCKS

RIGHT

LANE

STOPPING

STANDING

R7-4-A 24"x30"

CRÓSS

ONLY

CROSS

WALKS

12" x 18'

12"x 18"

24"x 30"

24"x24'

24"x 18"



R3-3 24"x 24"

R3-3-A 48"x 48'

KEEP

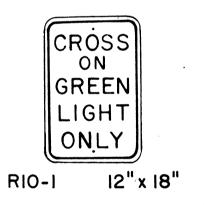
RIGHT

R4-7 24"x30' 24"x 18"

2 HR PARKING

TO 5:30 PM

R7-108 12" x 18"



NO U

TURN

R3-4 24"x 24"

R3-4-A 46"x46" 48"x 36"

KEEP

LEFT

R4-8 24"x 30"

TOW-AWAY ZONE

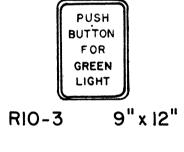
R7-201 12" x 6 "

R7-201-A 24"x 12"

24"x 18'

24"x 18"









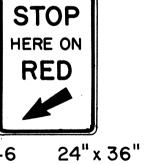
ROAD

CLOSED

48"x 30"

RII-2

RIO-6



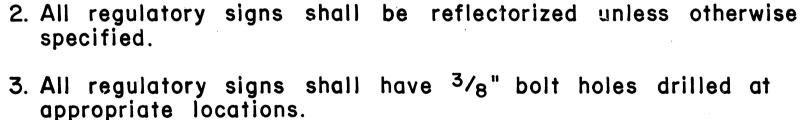
ROAD CLOSED

10 MILES AHEAD

LOCAL TRAFFIC ONLY

RII-3(IO) 60"x30"





Sign details shall conform to the FHWA publications

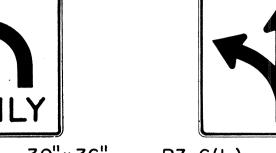
"Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.

- 4. Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
- 5. All signs shall be erected without educational plaques unless called for in the plans.

NO.	REVISION	APPROVED BY	DATE
ľ	Supersedes Sht. DT 101 Approved 12-30-69	H:(.)	3/20/12
2	Revised General Note I.	H1.	10/16/14
3	Added General Note 5	Hat .	119
. '			
			()
	· .		a
			Ċ

1	HAWAII	HAW.	450E
			,

FED. ROAD DIST. NO.



STATE

PROJ. NO.

R3-5(L) 30"x36" R3-5(L)-A 48"x60"



FISCAL SHEET YEAR NO.

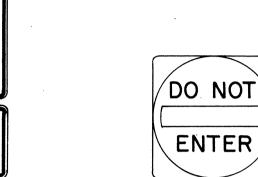
12

1980

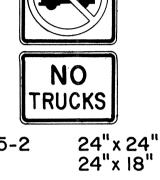
SHEETS

18

R3-6(L) 30"x36" R3-6(L)-A 48"x60"



ENTER 30"x 30' R5-I-A 48"x 48"



PARKING EXCEPT ON

PAVEMENT SHOULDER R8-2 24" x 30" 24" x 30"



		PUSH BUTTON	
		FOR	
	ll ll	GREEN	
	II.	LIGHT	
	RIO-3	9	, ";
11			



TRAFFIC ENGINEER

3/17/72 DATE

3-20-12

DATE

APPROVED: ASSISTANT CHIEF, ENGINEERING

> STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS REGULATORY SIGNS

NOT TO SCALE

SHEET No. 3 OF 9 SHEETS DT 101

A

TRACING CLOTH



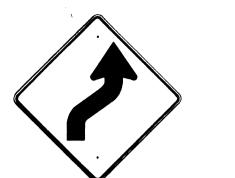
WI-I(R) 30"x30" WI-I(R)-A 48"x48"



WI-2(R) 30"x 30" WI-2(R)-A 48"x 48"



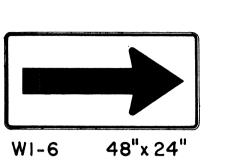
WI-3(R) 30"x30" WI-3(R)-A 48"x48"



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

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

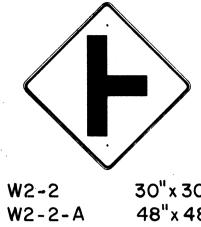




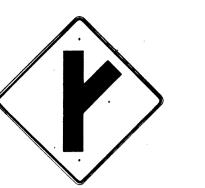
48"x 24"



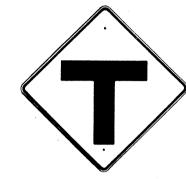
30"x 30" 48"x 48" W2-1 W2-1-A



30" x 30" 48" x 48"



W2-3(R) 30"x 30" W2-3(R)-A 48"x 48"



30"x 30" 48"x 48"



30"x 30" 48"x 48" W2-5 W2-5-A

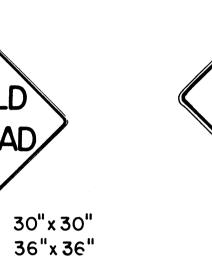


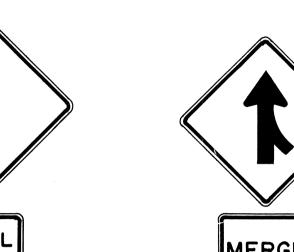
W3-1 W3-1-A

30"x 30" 36"x 36"

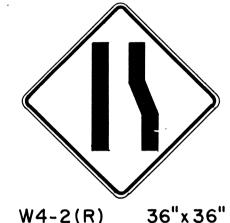
W3-2

W3-2-A





SIGNAL AHEAD 36" x 36" 24" x 18"



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



W5-2 W5-2-A

30"x 30" 36"x 36"



W5-3 36"x 36"



DIVIDED HIGHWAY

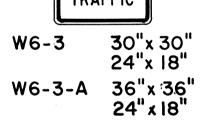
36"x 36" 24"x 18"



ENDS 36"x 36" 24"x 18"



TWO WAY TRAFFIC





30"x 30" 24"x 18" W7-I-A 36"x 36" 24"x 18"



W4-I(R) 30"x30" 24"x18"

W4-I(R)-A 48"x 48" 24"x 18"

W8-I-A 36"x 36"

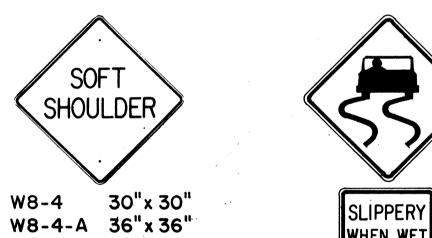


W8-2 30" x 30" W8-2-A 36" x 36"



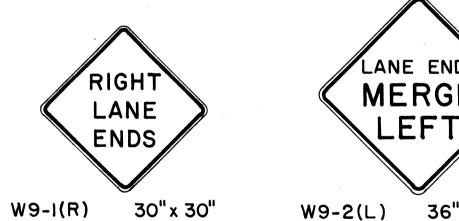
GENERAL NOTES

W8-3 30" x 30" W8-3-A 36"x 36"



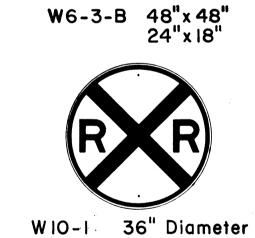
SLIPPERY WHEN WET 30"x 30" W8-5 24"x 18"

W8-5-A 36" x 36" 24" x 18"



LANE ENDS MERGE LEFT W9-2(L) 36"x 36"

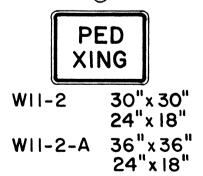
W9-2(L)-A 48"x 48"

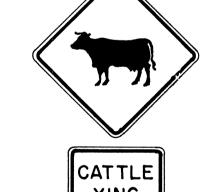












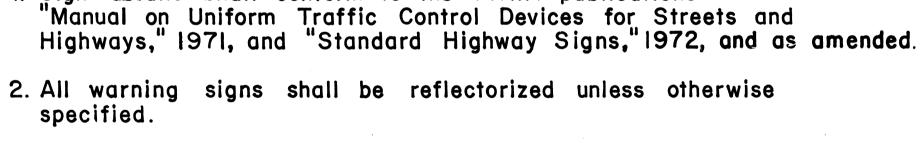
XING WII-4 30"x30" 24"x 18" WII-4-A 36"x36" 24"x18"

FARM



MACHINERY WII-5 30"x30"

24"x 18" WII-5-A 36" x 36" 24" x 18"



I. Sign details shall conform to the FHWA publications

3. All warning signs shall have 3/8" bolt holes drilled at appropriate locations.

APPROVED DATE

3/20/12

9-16-75

9-14-76

1-9-79

·BY

H.1.

HT.

H.C.

4. Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

5.	Signs	prefix	ced wit	h "CW"	on the
					ge and
			ruction	•	and
	shall	be refl	ectorize	d.	

REVISION

Supersedes Sht. DT 102

Revised General Note I

Revised General Note 5

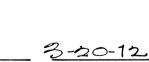
Revised General Note 5

Approved 12-30-69

Added Note I

APPROVAL RECOMMENDED:
Euski Janaka
TRAFFIC ENGINEER

APPROVED: 2 July



3/17/12 DATE

DATE

AS	•				
		-	 	-	

CHIEF, ENGINEERING

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION

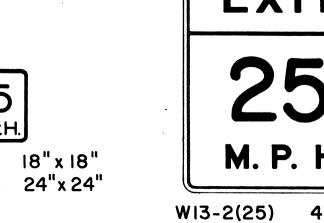
> STANDARD DETAILS WARNING SIGNS

NOT TO SCALE

SHEET No. 4 OF 9 SHEETS DT 102





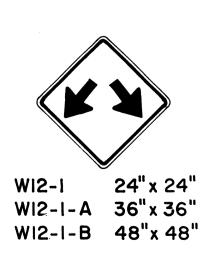




RAMP M. P. H.

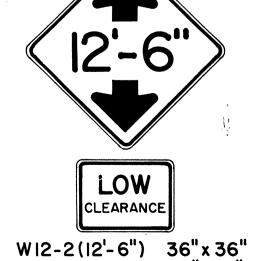
DEAD PASSING ZONE END WI4-3 36" x 48" x 48"

				11				
١.	All	signs	shall	be er	ected	withou	it educati	ional
	plaq	ues un	less o	alled	for i	n the	it educati plans.	



W9-I(R)-A 36"x 36"

W9-I(R)-B 48"x48"

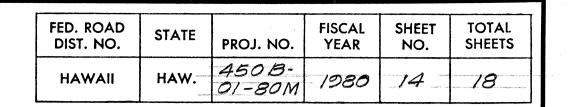


24"x 18"

25 M.P.H. W13-1(25) 18" x 18" WI3-I(25)-A 24"x 24"

WII-I-A 36"x36" 24"x18"

A













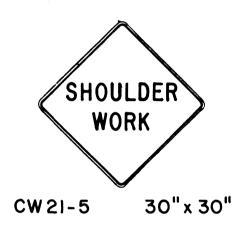


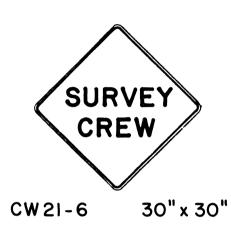


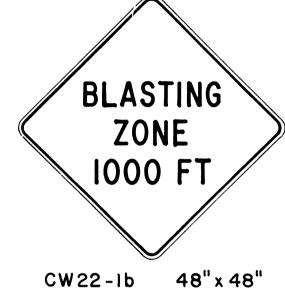


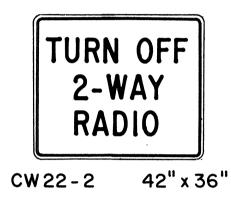














CW22-3

42" x 36"

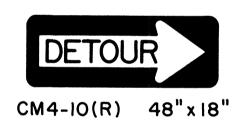
ROAD CONSTRUCTION NEXT 5 MILES

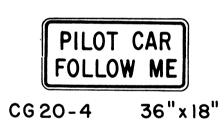
CG 20-I(5) 60"x 36"

END CONSTRUCTION

CG 20-2 60" x 24"













GENERAL NOTES

- I. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs,"1972, and as amended.
- 2. All construction signs shall be reflectorized.
- 3. All construction signs shall have $\frac{3}{8}$ bolt holes drilled at appropriate locations.
- 4. Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
- 5. 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.

NO.	REVISION	APPROVED BY	DATE
l	Supersedes Sht. DT 104 Approved 12-30-69	H.T.	3/23/72
2	Revised General Note 1	14.1	10/16/14
3	Revised General Note 2	M	9-16-75
4	Revised General Note 2 and sign CG20-1(5)	H.P.	9-16-75
	*		

APPROVAL BECOMMENDED TRAFFIC ENGINEER

3/21/72 DATE

3/23/12

DATE

APPROVED:

ASSISTANT CHIEF, ENGINEERING

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

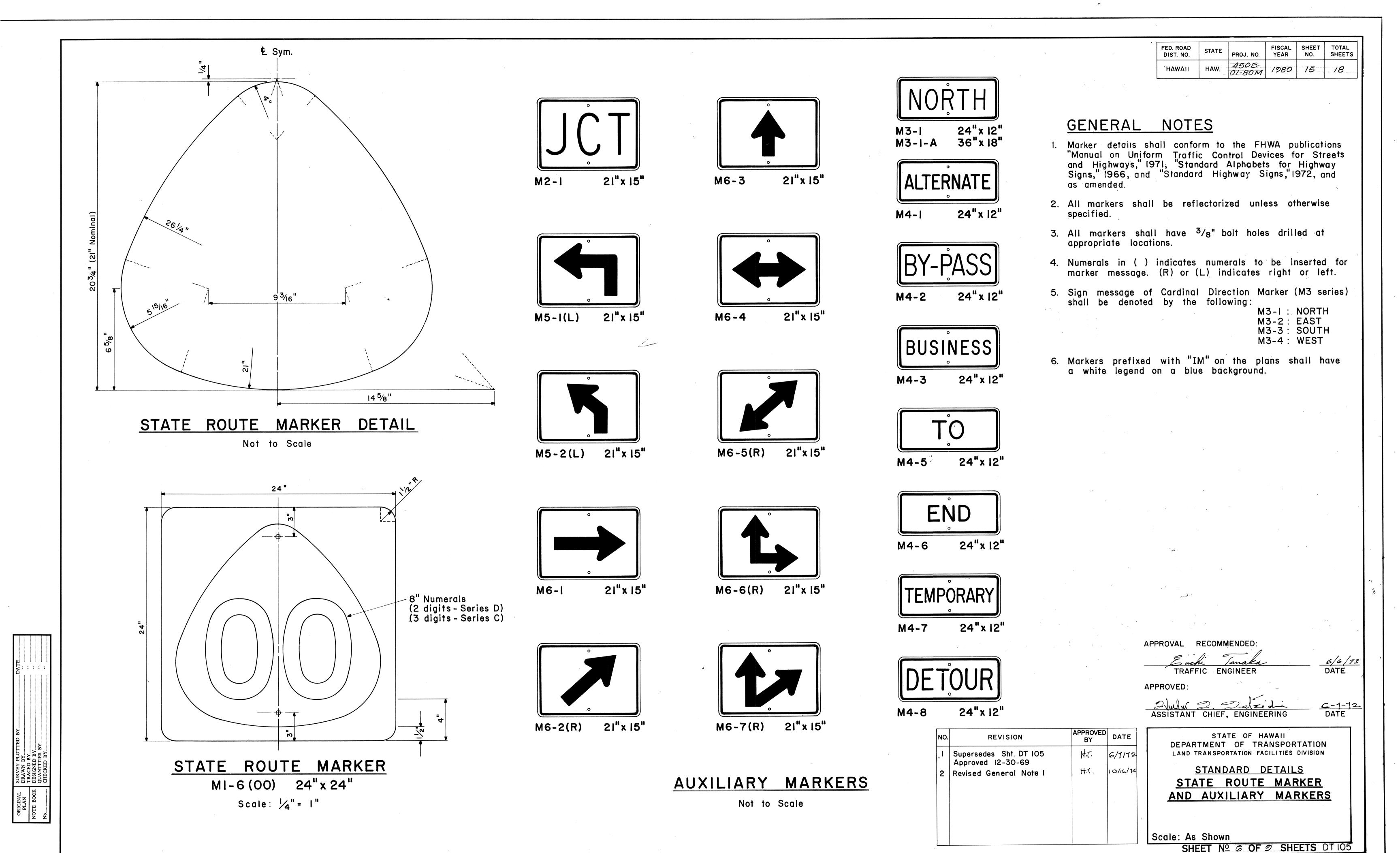
LAND TRANSPORTATION FACILITIES DIVISION

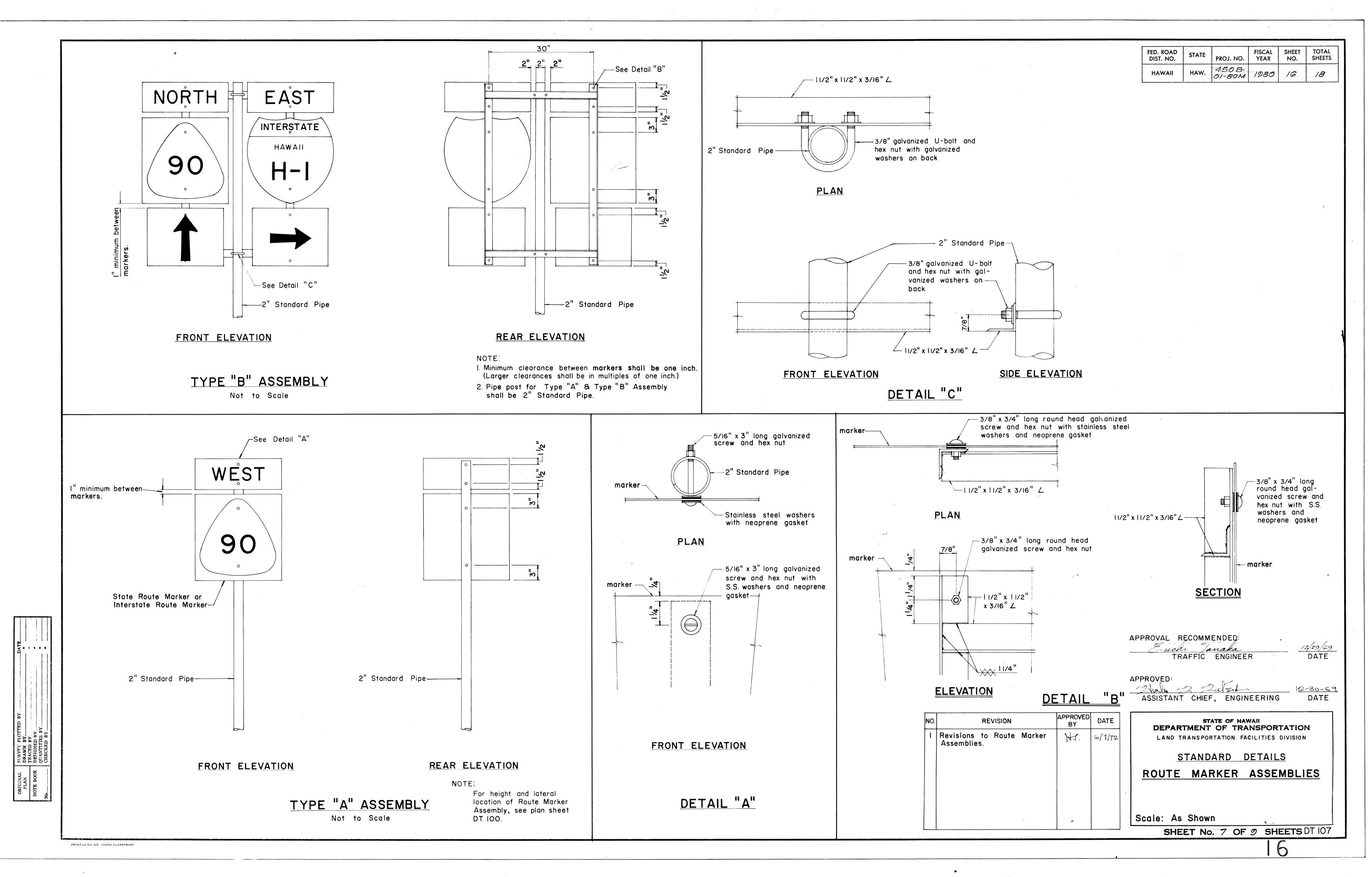
STANDARD DETAILS CONSTRUCTION SIGNS

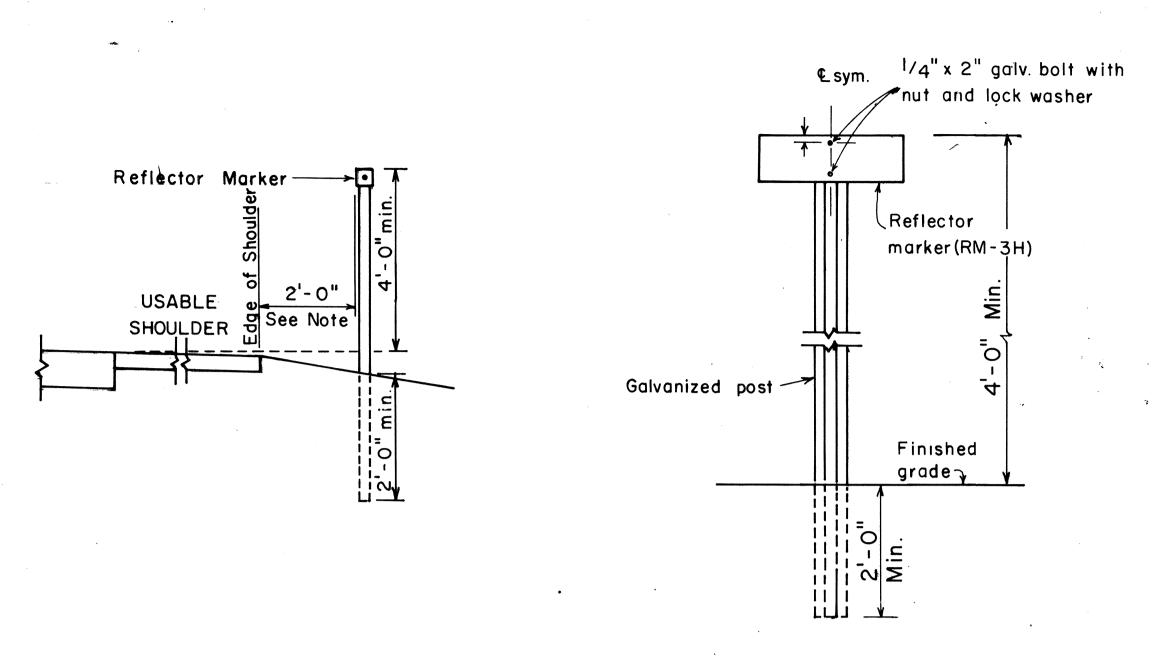
NOT TO SCALE

SHEET No. 5 OF 9 SHEETS DT 104

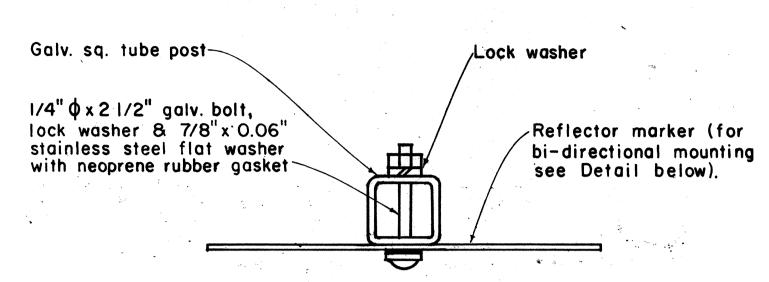
TRACING CLOTH







REFLECTOR MARKER MOUNTING DETAIL



GALVANIZED SQUARE TUBE POST

Additional 7/8" x 0.06" stainless steel flat washer with neoprene rubber gasket (for bi-directional mounting only). -Additional plate (for bi-directional mounting only). Galvanized flanged channel For bolt, nut & washers see Detail above.

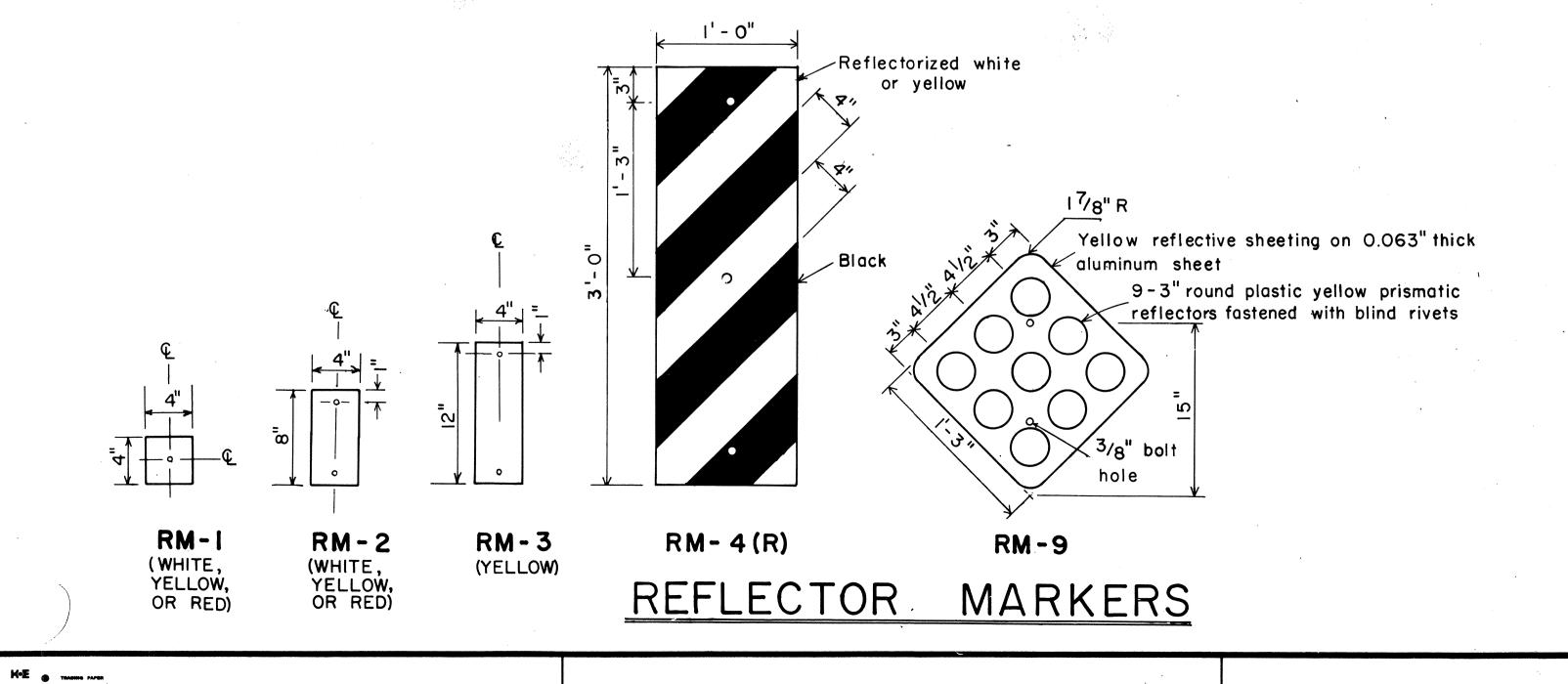
GALVANIZED FLANGED CHANNEL POST

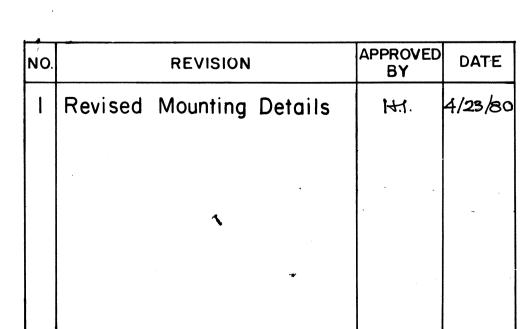
TYPICAL MOUNTING DETAILS

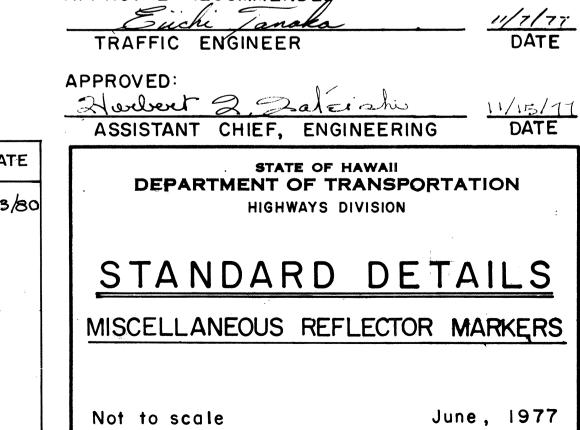
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B- 01-80M	1980	ont interestation was a few appearance processors.	100 hala marain primer (100 de 100 de 10

GENERAL NOTES

- l. Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
- 2. (R) or (L) indicates right or left and shall be as shown on the plans.
- 3. Reflector markers RM-1 and RM-2 shall be:
 - a) Yellow if placed along the left edge of divided roadways, one-way roadways, and ramps in the direction of travel.
- White if placed along the right edge of divided roadways, one-way roadways, and ramps in the direction of travel.
- 4. For reflector marker RM-9, reflective sheeting material may be used as an alternate.
- 5. For RM-4, the stripes shall slope downward at an angle of 45° in the direction of traffic.







Not to scale

SHEET NO. 8 OF 9 SHEETS DT 11

