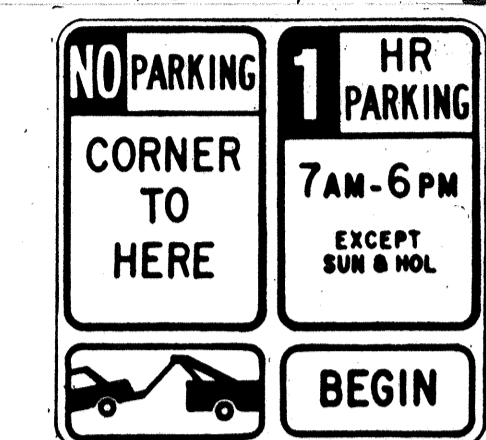


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-F-080-1(5)	1980	58	123

TRUE NORTH
SCALE: 1" = 20'

R1-101b R1-108b



R1-201a R20-1
RSA-1
INSTALL ON HWY. LT. STD.

SIGN D3-3

OLIVE AVE

INSTALL ON HWY. LT. STD.

AVENUE

TIE INTO EXIST. PAV'T MKGS.

TYPE "A" WHEEL CHAIR RAMP



INSTALL ON EXISTING HWY. LT. STD.

R1-101c R1-108b



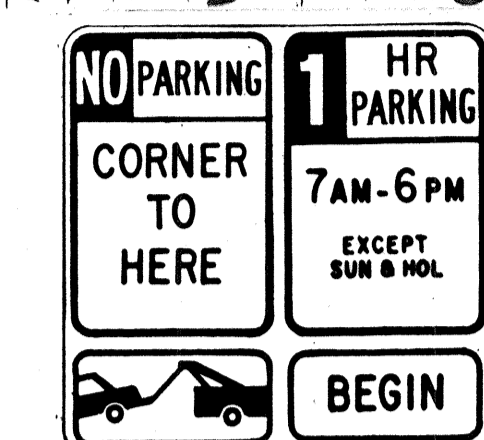
R1-201a R20-2
RSA-2
INSTALL

R1-108b(L,R)



INSTALL ON HWY. LT. STD.

R1-101b R1-108b



R1-201a R20-1
RSA-1
INSTALL ON HWY. LT. STD.

MATCH LINE STA. 80+50

MATCH LINE STA. 86+50

TYPE "A" WHEEL CHAIR RAMP

PAINT CURB RED

PAINT CURB RED

PAINT CURB RED

TYPE "A" WHEEL CHAIR RAMP

PAINT CURB RED

TYPE "A" WHEEL CHAIR RAMP

INSTALL ON HWY. LT. STD.

CALIFORNIA AVE

SIGN D3-4

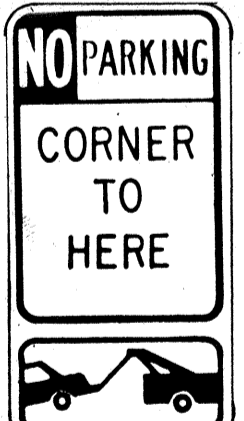
PAINT CURB RED

R1-101(R)



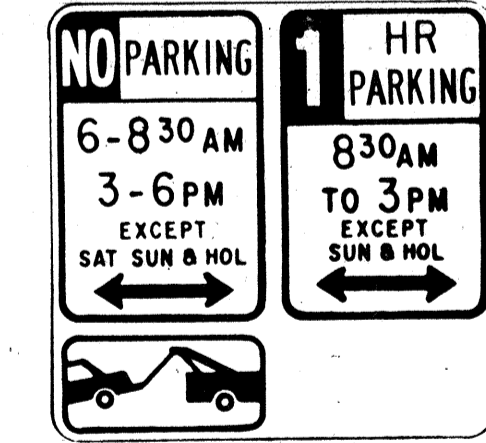
INSTALL

R1-101b



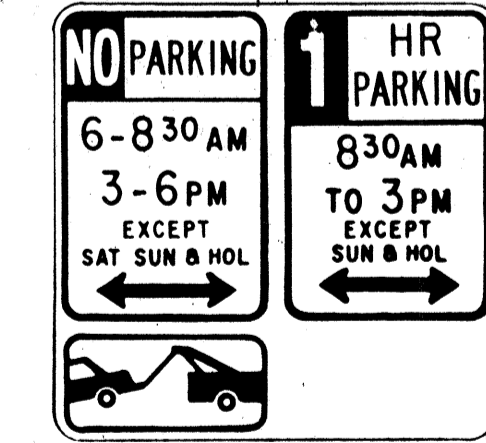
R1-201a
INSTALL ON HWY. LT. STD.

R1-101d(L,R) R1-108a(L,R)



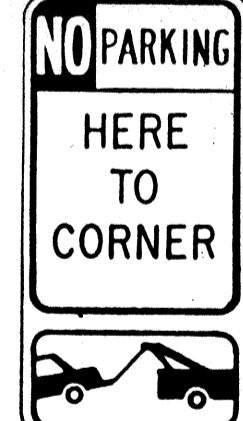
R1-201a
RSA-3
INSTALL

R1-101d(L,R) R1-108a(L,R)



R1-201a
RSA-3
INSTALL ON HWY. LT. STD.

R1-101c



R1-201a
INSTALL

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

2-9-83	ADDED RIGHT LANE MUST TURN RIGHT SIGN
5-5-81	REVISED SIGNING & PARKING STALLS
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING

KAMEHAMEHA HWY., WAHIAWA
AVOCADO ST. TO KILANI AVE.

FED. AID PROJECT NO. F-F-080-1(5)
SCALE: 1" = 20'-0"

SHEET NO. 2 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-F-080-1(B)	1980	59	123

TRUE NORTH
SCALE: 1" = 20'

INSTALL ON HWY. LT. STD.
CALIFORNIA AVE
SIGN D3-4

R1-107c R1-108b

R1-108b(L,R)

INSTALL

R1-107b R1-108b

INSTALL

R1-201a R20-2
RSA-2
INSTALL ON HWY. LT. STD.

4' WHITE GUIDE LINES

PAINT CURB RED

D9-15(L)
POLICE
INSTALL ON HWY. LT. STD.

TIE INTO EXIST. PAV'T. MKGS.

TYPE "A" WHEEL CHAIR RAMPS

PAINT CURB RED

TYPE "A" WHEEL CHAIR RAMP

4' WHITE DASH GUIDE LINE

PAINT CURB RED

TYPE "A" WHEEL CHAIR RAMP

PAINT CURB RED

PAINT CURB RED

PAINT CURB RED

R1-1

INSTALL ON HWY. LT. STD.

RG-1(L)

INSTALL ON HWY. LT. STD.

RB-3a

ANY TIME

RSP-1(L,R)
INSTALL ON HWY. LT. STD.

INSTALL ON HWY. LT. STD.

MODIFIED TYPE "A" WHEEL CHAIR RAMPS

R5-1

INSTALL ON HWY. LT. STD.

RB-3a

ANY TIME

R3-1

INSTALL ON HWY. LT. STD.

RSP-1(L)
INSTALL ON HWY. LT. STD.

R1-107d(L,R) R1-108a(L,R)

R1-107b

INSTALL ON HWY. LT. STD.

R1-201a
RSA-3
INSTALL

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

R3-13(R)

INSTALL

D9-15(R)
POLICE
INSTALL ON HWY. LT. STD.

DATE	REVISION
2-9-83	REVISED STRIPING AT CALIFORNIA AVENUE
5-5-81	REMOVE R1-107(R) SIGN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

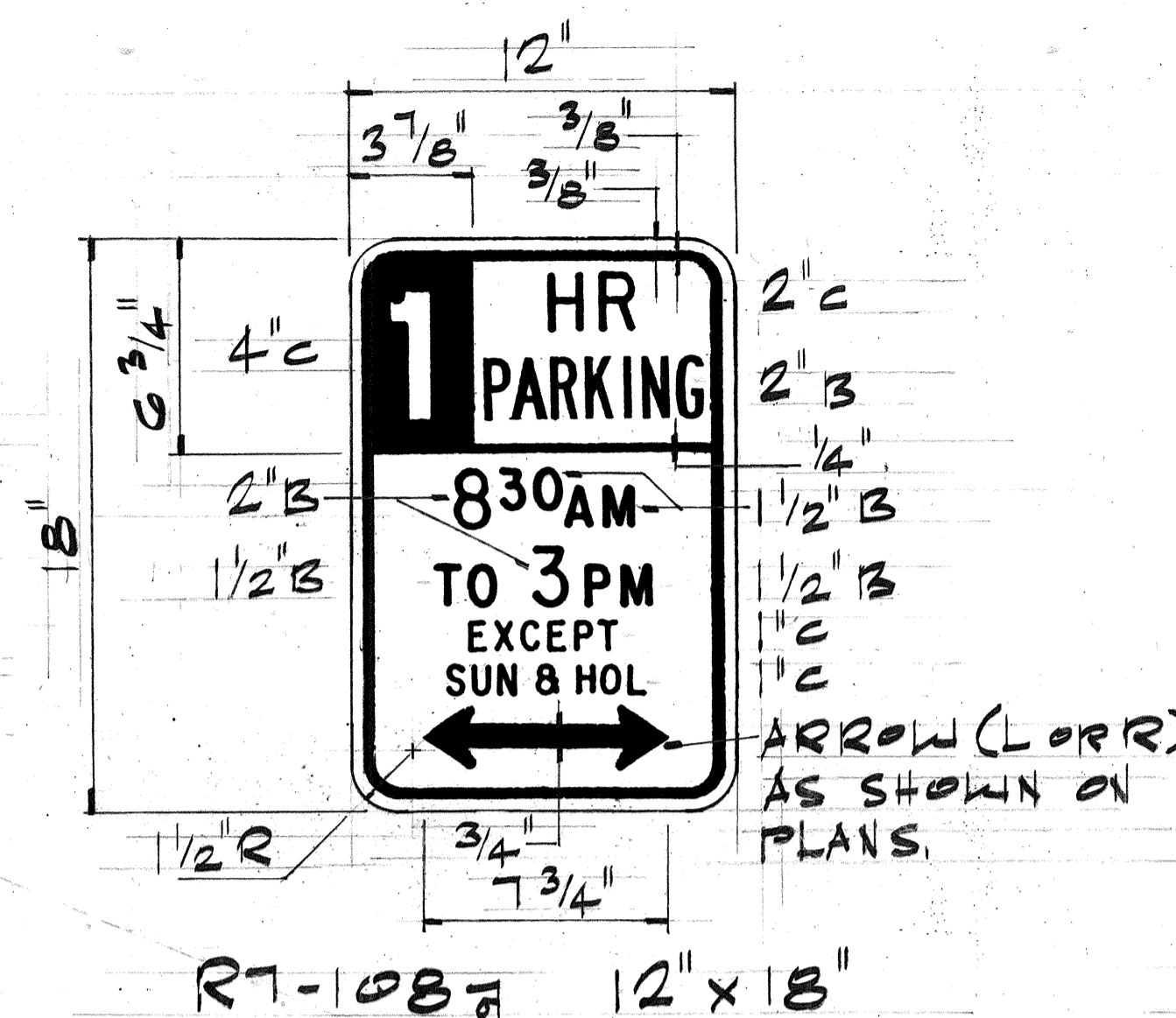
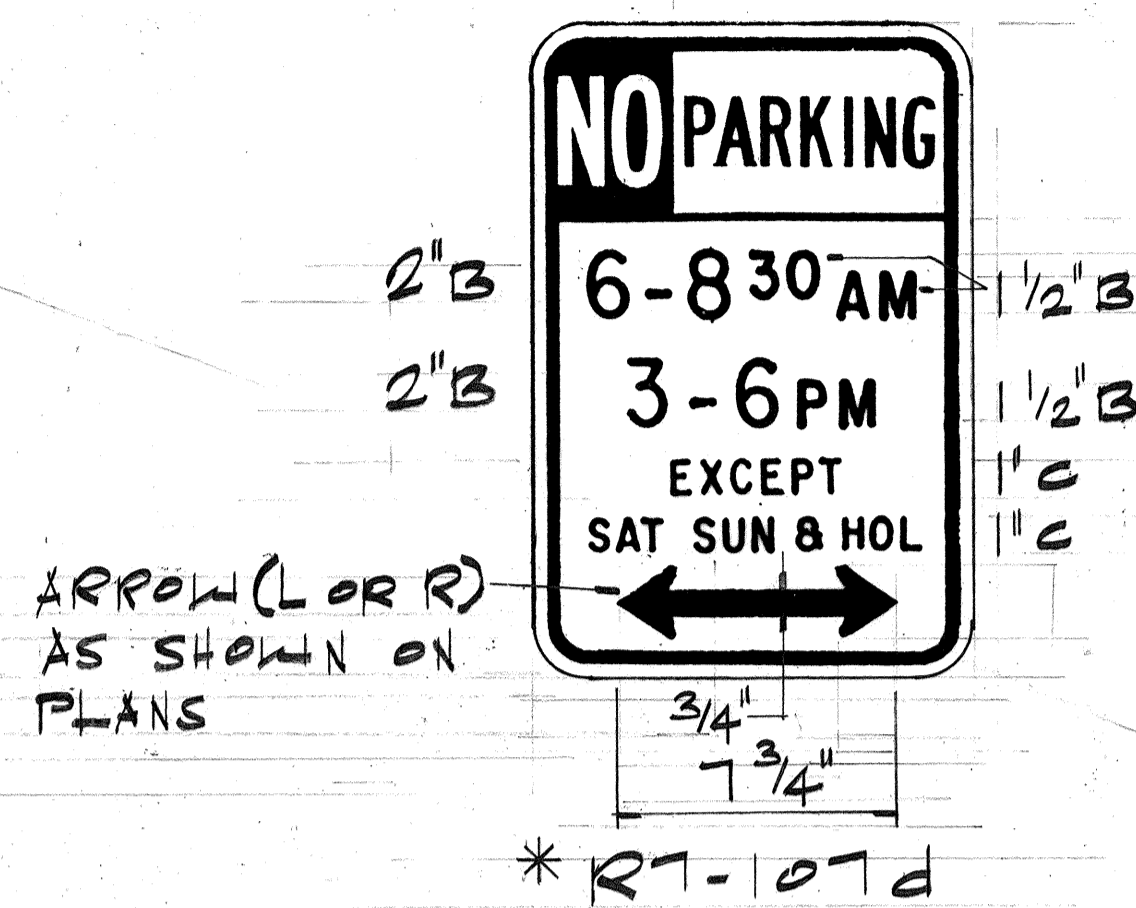
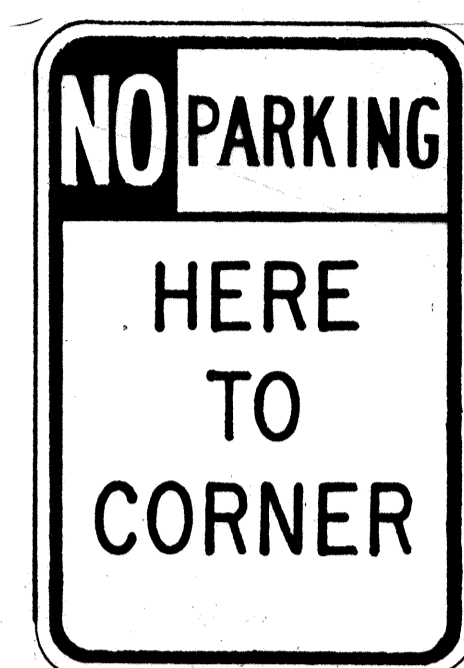
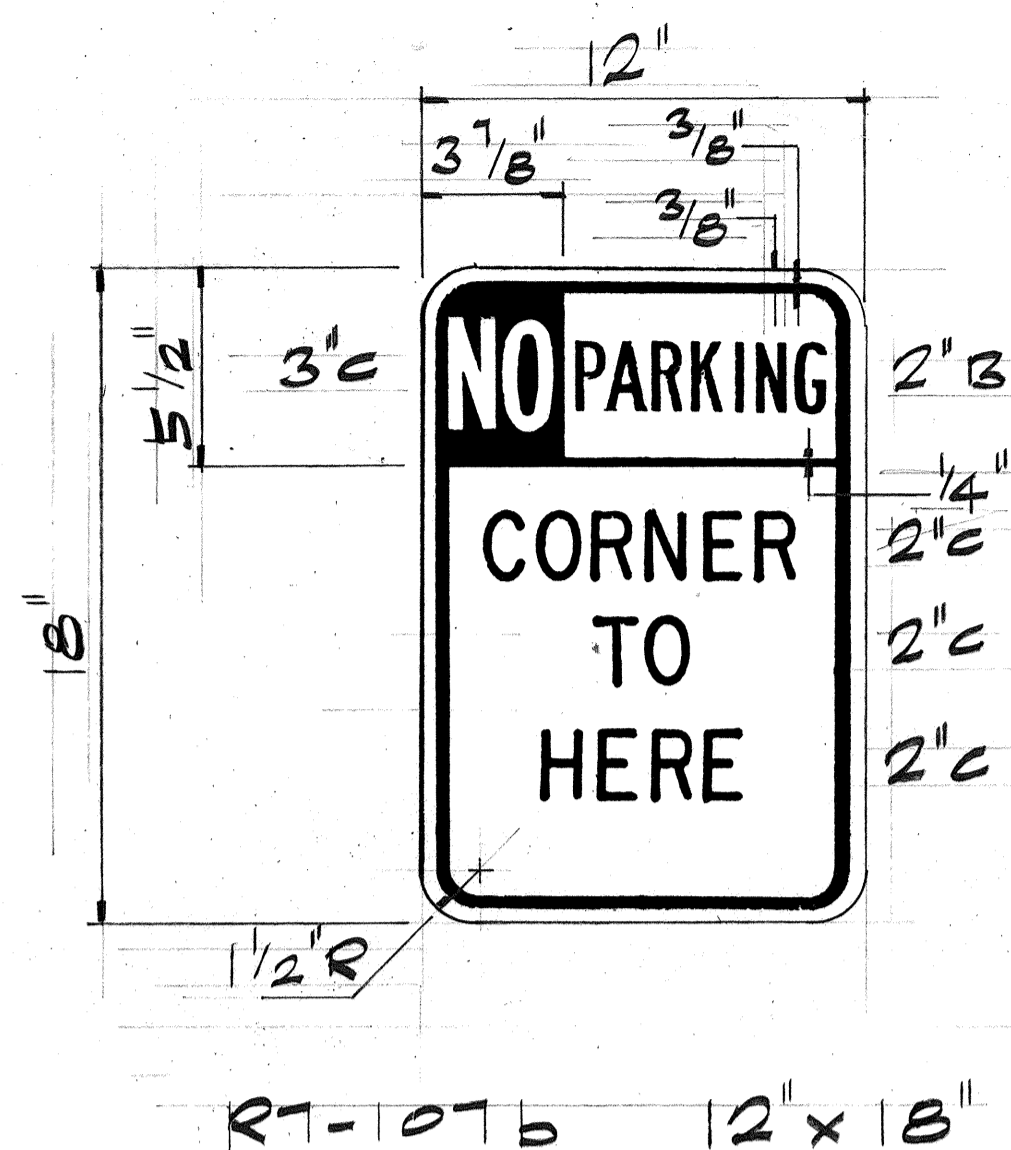
SIGNING & PAVEMENT MARKING

KAMEHAMEHA HWY., WAHIAWA
AVOCADO ST. TO KILANI AVE.
FED. AID PROJECT NO. F-F-080-1(B)

SCALE: 1" = 20'-0"

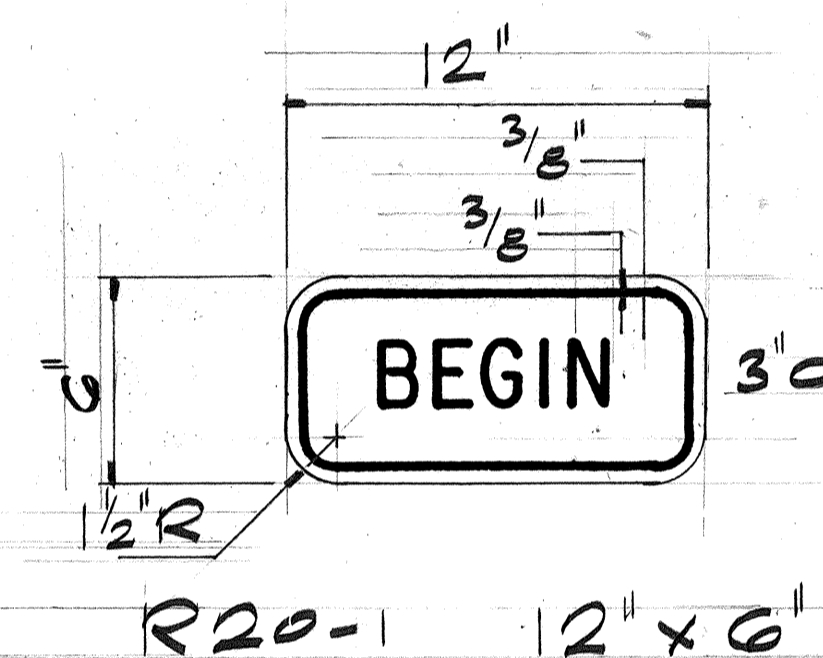
SHEET No. 3 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-F-080-1(5)	1980	63	123

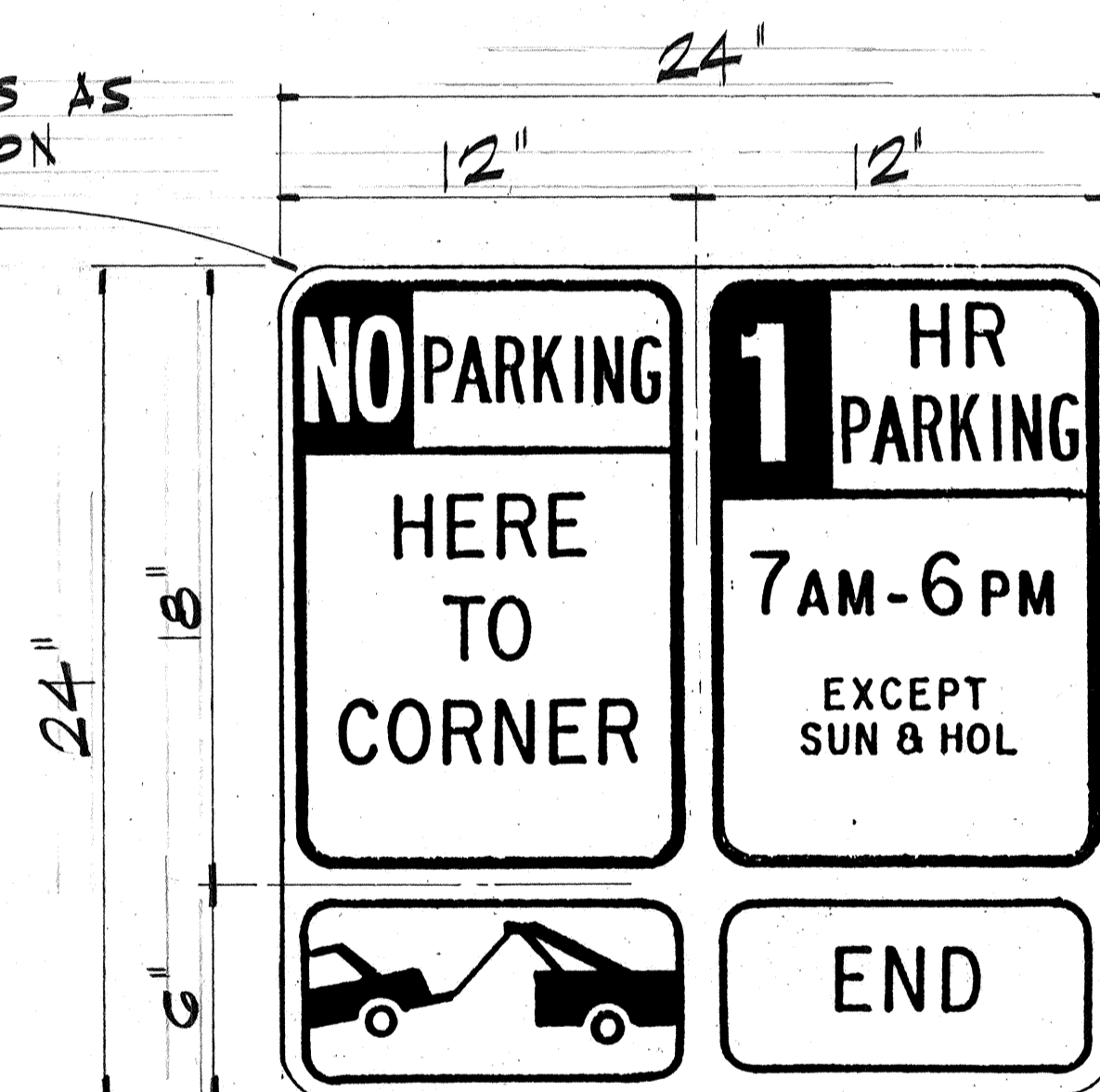


* EXCEPT WHERE NOTED, ALL DIMENSIONS SIMILAR TO R1-107b.

** ALL DIMENSIONS SIMILAR TO R1-108a

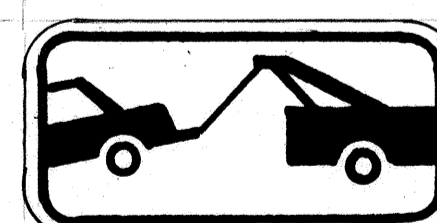
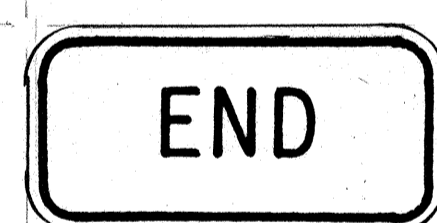


LEGENDS AS SHOWN ON PLANS.



GENERAL NOTES

- ALL SIGNS THIS SHEET SHALL CONFORM TO PLANS & SPECIFICATIONS FOR REGULATORY SIGNS.



NOTE:
WHEN A COMBINATION OF REGULATORY SIGNS ARE USED AS SHOWN ABOVE, THEY SHALL BE MOUNTED ON A SINGLE METEL PLATE, 24" x 24".

** EXCEPT WHERE NOTED, ALL DIMENSIONS SAME AS R20-1.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARKING RESTRICTION SIGNS

KAMEHAMEHA HWY., WAHIAWA
AVOCADO ST. TO KILANI AVE.

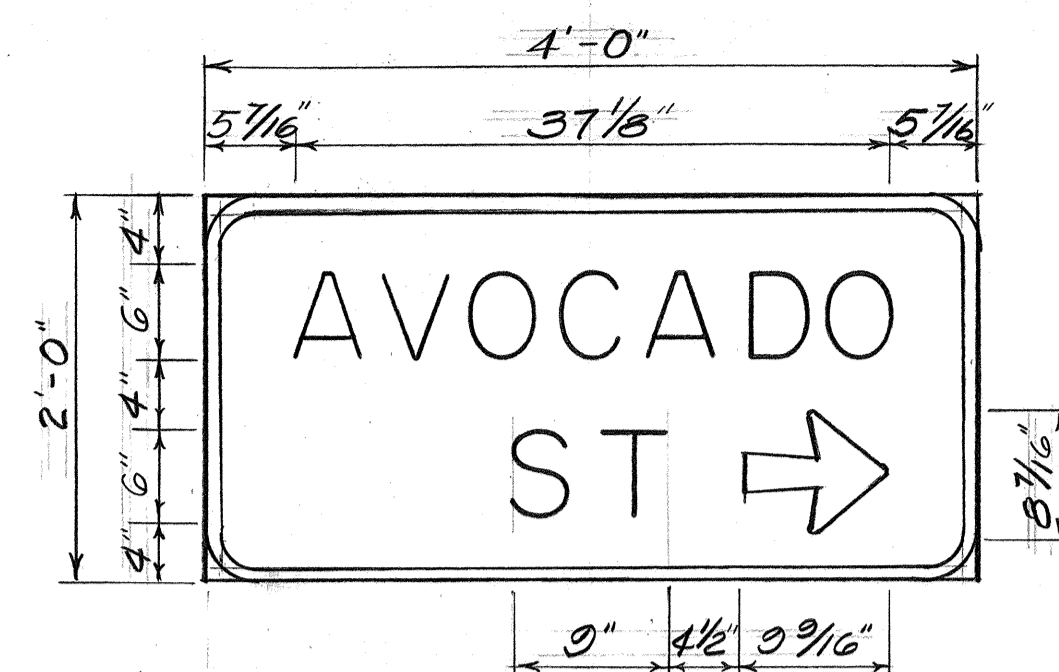
FED. AID PROJECT NO. F-F-080-1(5)

NOT TO SCALE
SHEET No. 7 OF 18 SHEETS

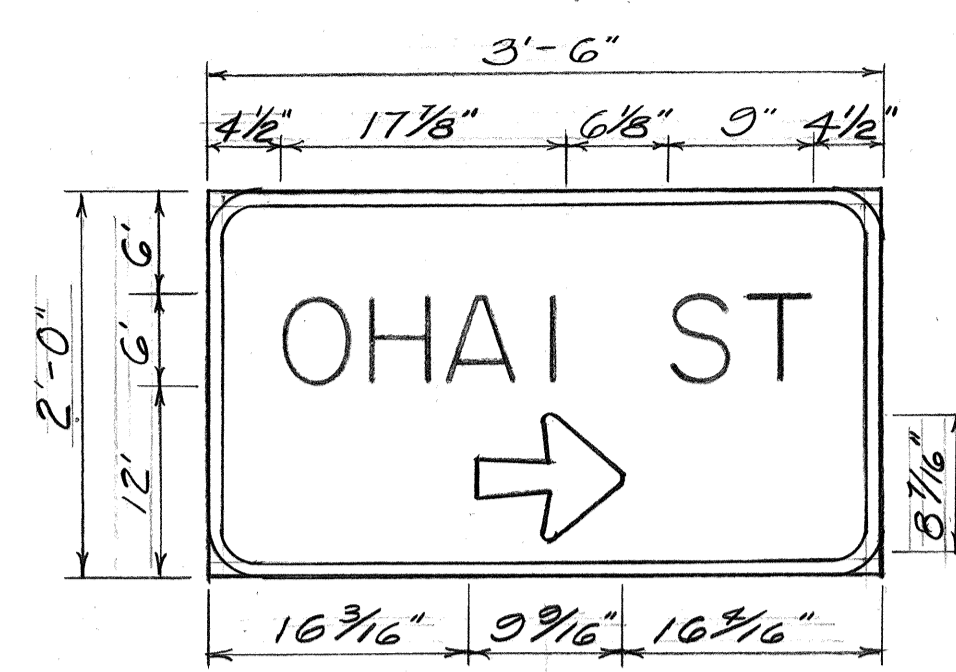
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-F-080-1(5)	1980	64	123

STREET NAME SIGN NOTES:

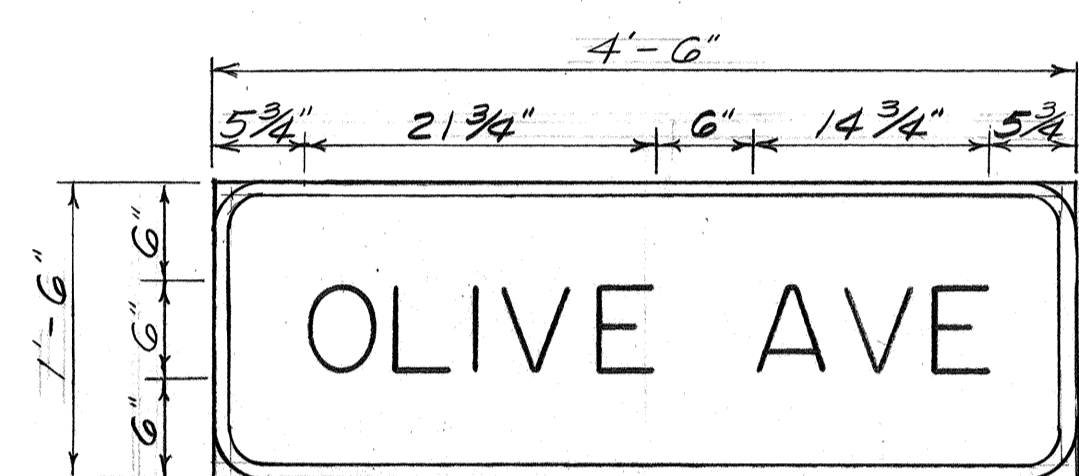
- Street name signs () shall conform to the latest FHWA publications: "Manual on Uniform Traffic Control Devices for Streets & Highways" and as amended. "Standard Alphabets for Highway Signs".
- Letters: Series D Upper Case
Color: Letters } White Reflective Sheeting on Demountable Aluminum Cut-Outs fastened to Sign Panel with Aluminum Blind Rivets.
Borders }
Arrows }
Background } Green Reflective Sheeting
Sign Panel: 0.100" TH. Sheet Aluminum
- If splicing of Sign Panel is necessary, contractor shall submit splice details to Engineer for approval.
- For Typical Frame Layout and Mounting Details see Plan Sht. # 65 "Unbalanced Sign Installation".



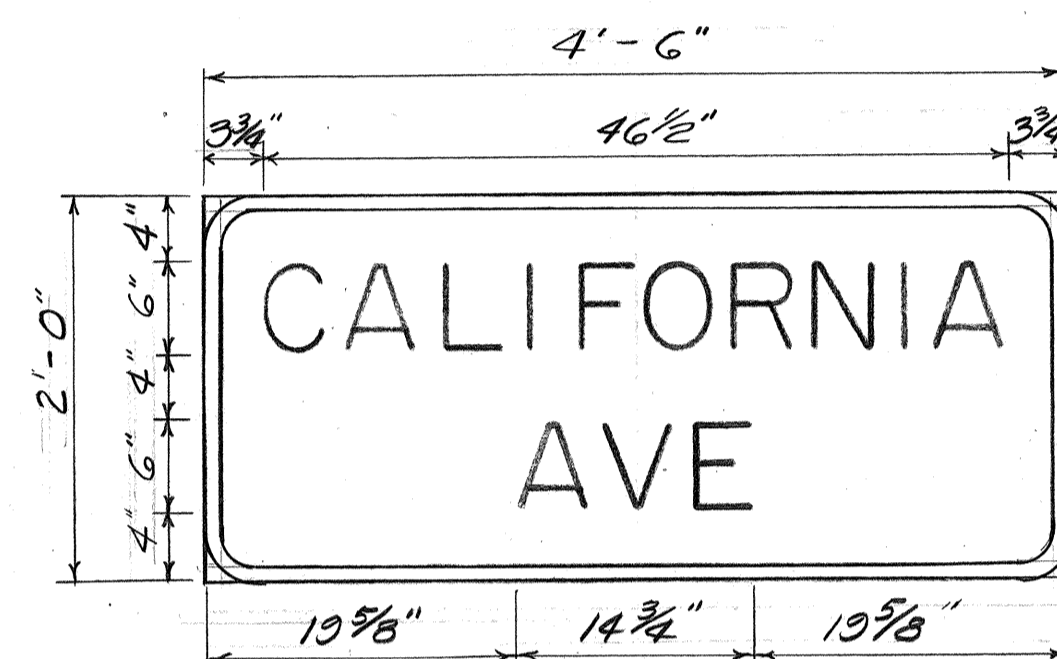
D3-1(R)
D3-1(L) = ◀



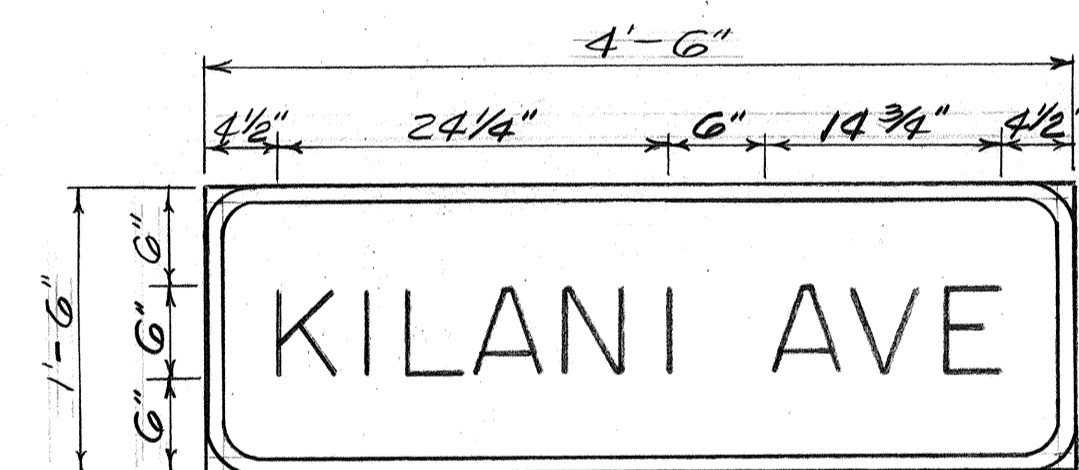
D3-2(R)
D3-2(L) = ◀



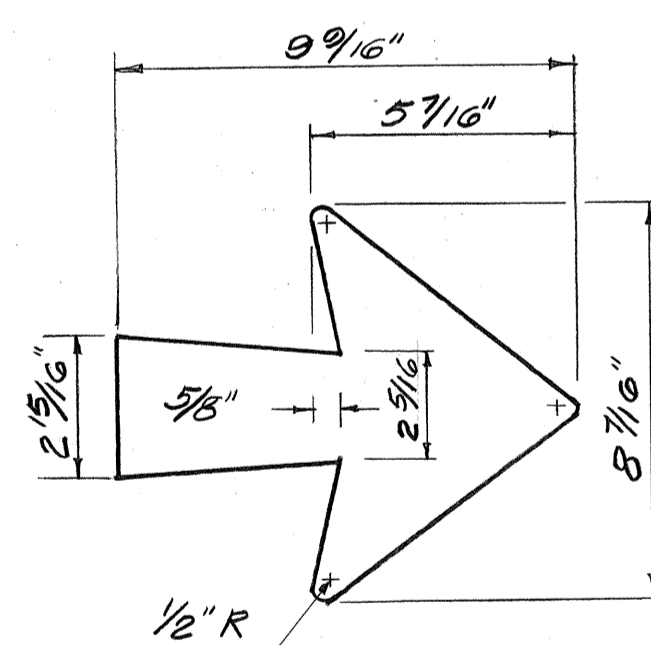
D3-3



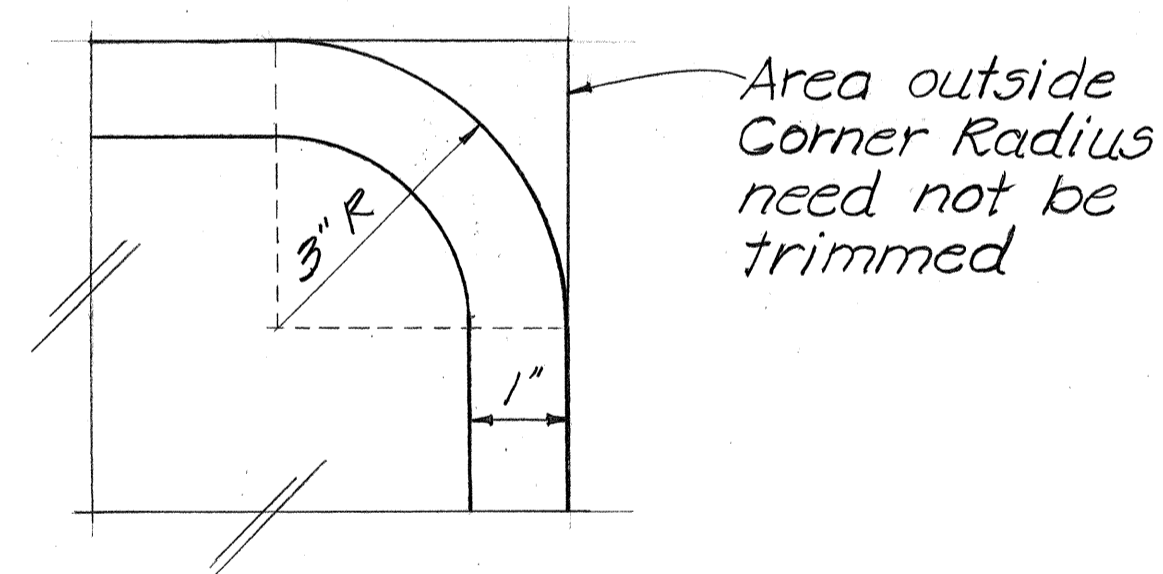
D3-4



D3-5



ARROW DETAIL
N.T.S.



BORDER DETAIL
N.T.S.

PANEL LAYOUT

SCALE: 1"=1'-0"

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STREET NAME SIGNS

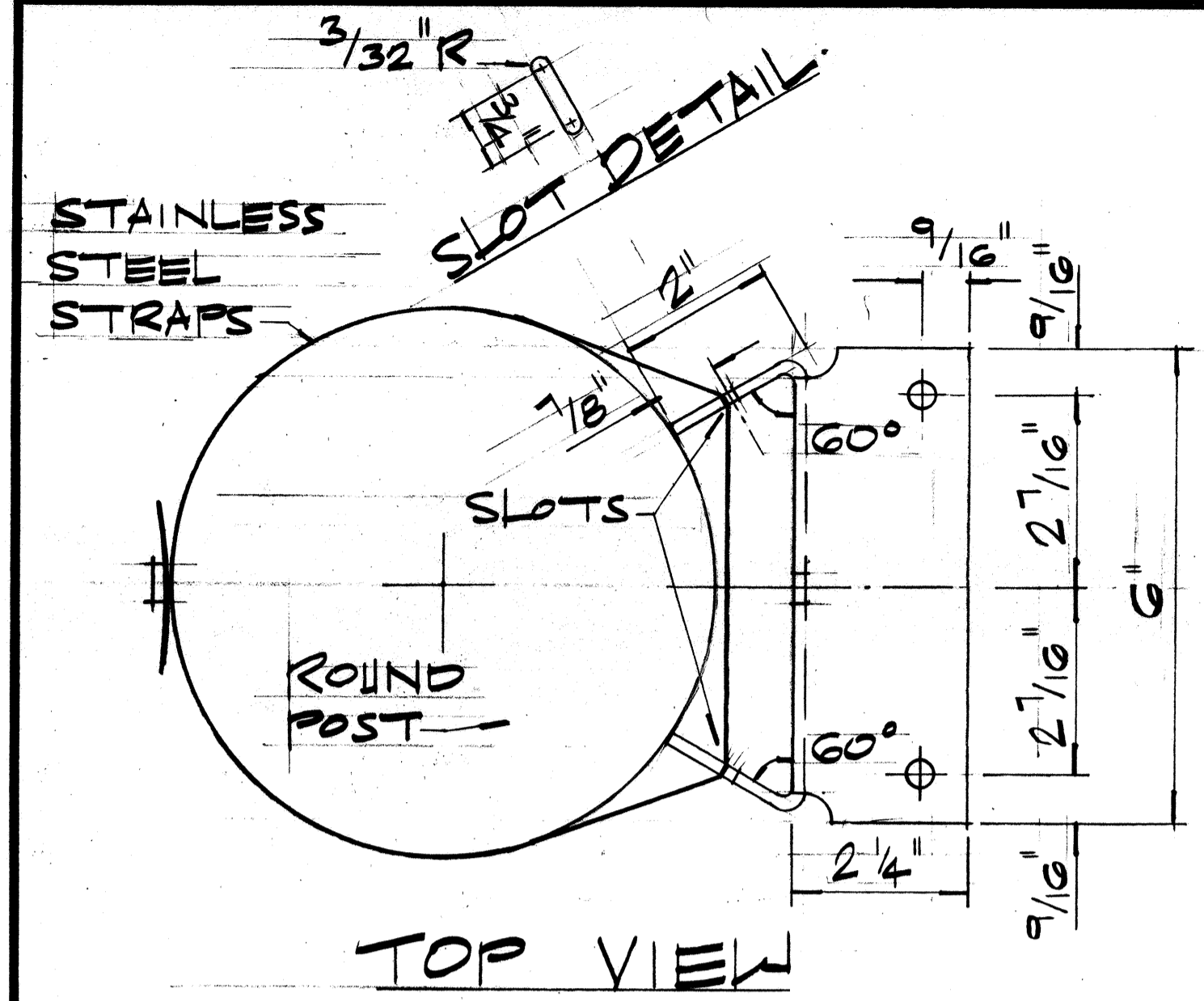
KAMEHAMEHA HWY., WAHIAWA
AVOCADO ST. TO KILANI AVE.

FED. AID PROJECT NO. F-F-080-1(5)

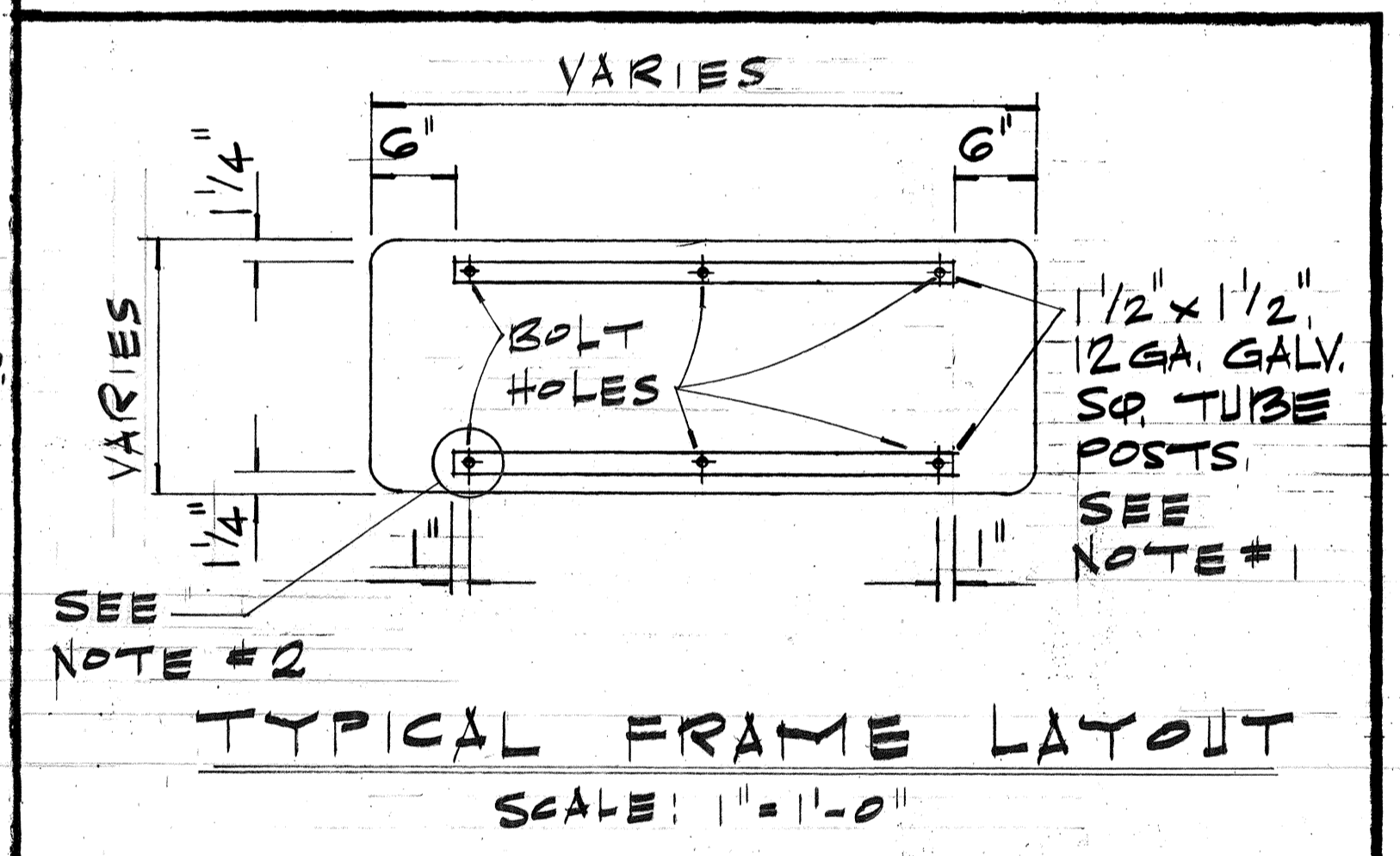
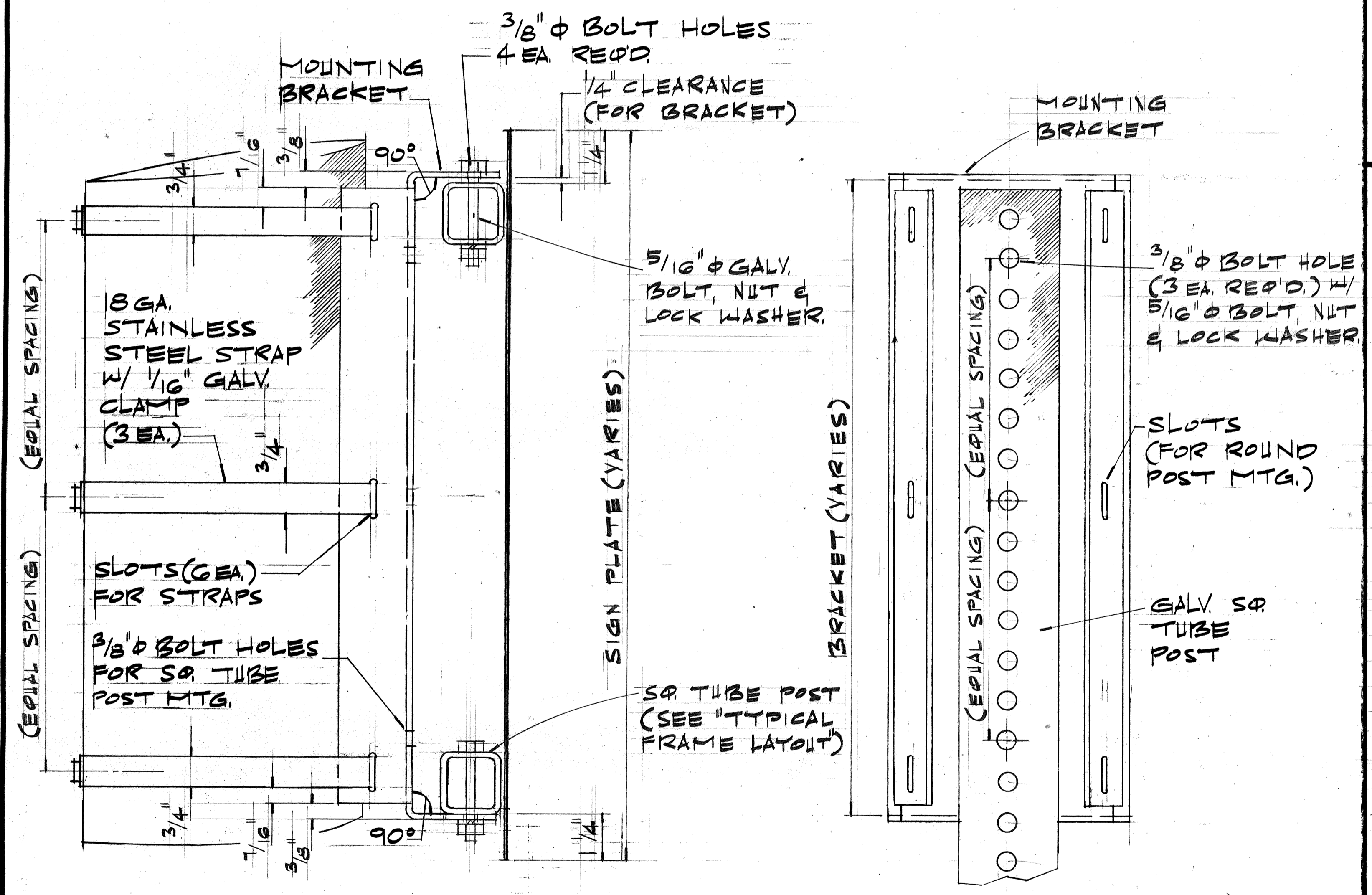
SCALE: AS SHOWN

SHEET No. 8 OF 18 SHEETS

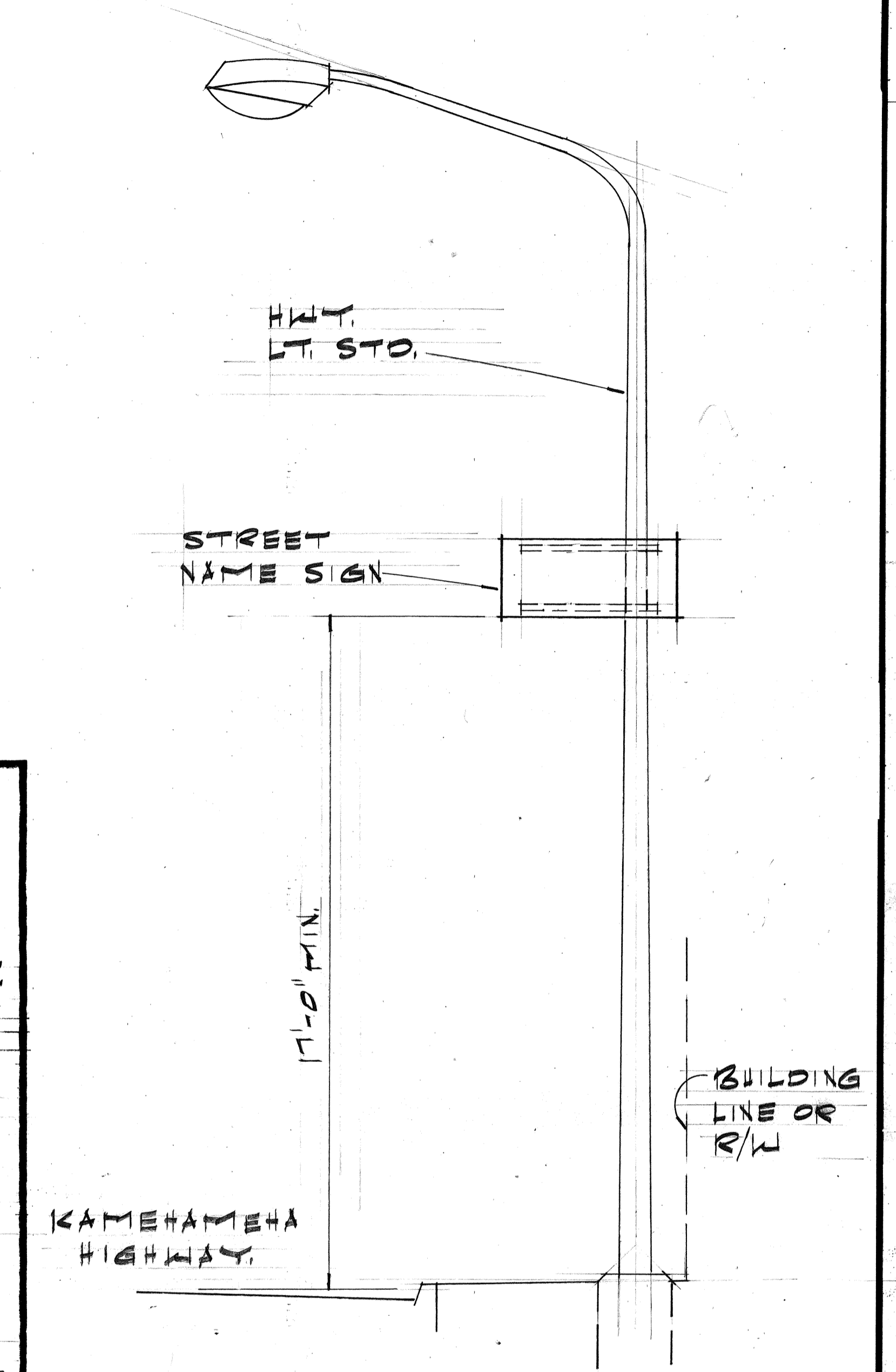
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-F-080-1(5)	1980	65	123



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



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

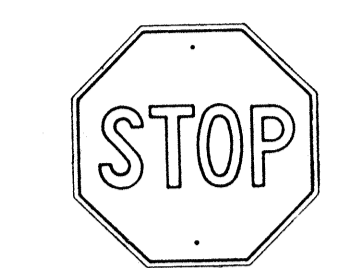


DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

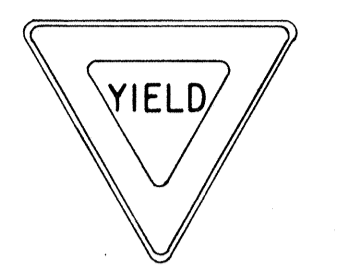
MOUNTING BRACKET FOR UNBALANCED SIGN INSTALLATION
HALF SCALE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
UNBALANCED SIGN INSTALLATION
KAMEHAMEHA HWY., WAHIAWA
AVOCADO ST. TO KILANI AVE.
FED. AID PROJECT NO. F-F-080-1(5)
SCALE: AS SHOWN
SHEET No. 0 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FP-050-1(5)	1980	67	123



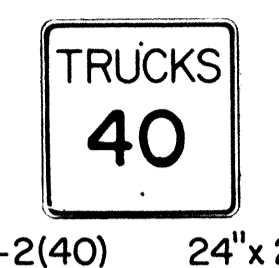
R1-1 30" x 30"
R1-1-A 36" x 36"
4-WAY
R1-3 12" x 6"
R1-3-A 18" x 9"



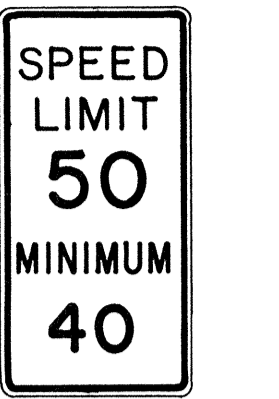
R1-2 36" x 36" x 36"
R1-2-A 48" x 48" x 48"



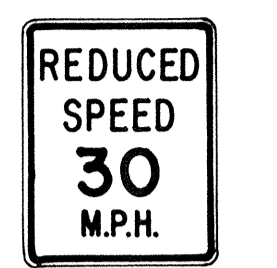
R2-1(50) 24" x 30"
R2-1(50)-A 48" x 60"



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



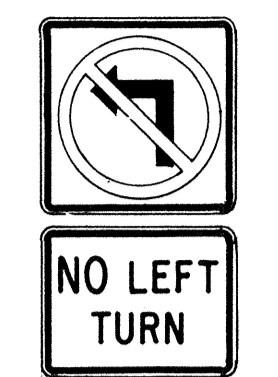
R2-4a(50/40) 24" x 48"
R2-4a(50/40)-A 48" x 96"



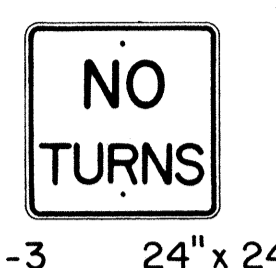
R2-5b(30) 24" x 30"
R2-5b(30)-A 48" x 60"



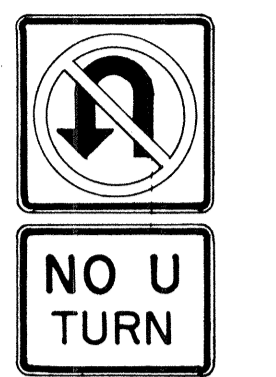
R3-1 24" x 24"
24" x 18"
R3-1-A 48" x 48"
48" x 36"



R3-2 24" x 24"
24" x 18"
R3-2-A 48" x 48"
48" x 36"



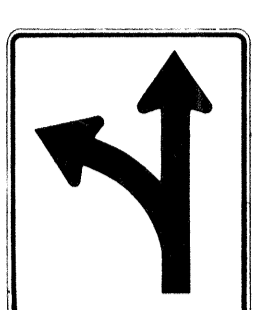
R3-3 24" x 24"
R3-3-A 48" x 48"



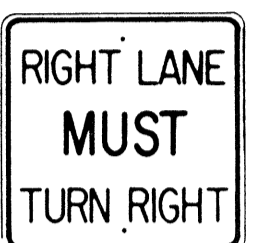
R3-4 24" x 24"
24" x 18"
R3-4-A 48" x 48"
48" x 36"



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



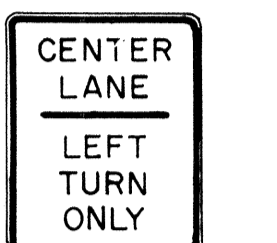
R3-6(L) 30" x 36"
R3-6(L)-A 48" x 60"



R3-7(R) 30" x 30"
R3-7(R)-A 48" x 48"



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



R3-9 24" x 30"



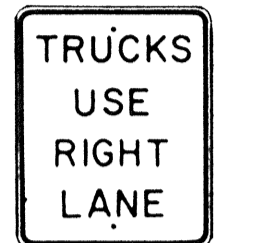
R4-1 24" x 30"



R4-2 24" x 30"



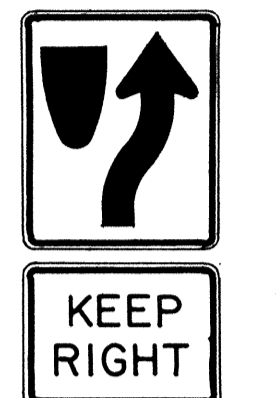
R4-3 24" x 30"
R4-3-A 48" x 60"



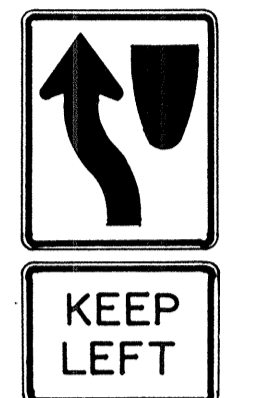
R4-5 24" x 30"



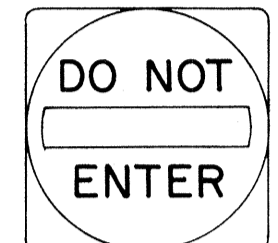
R4-6(500) 24" x 30"



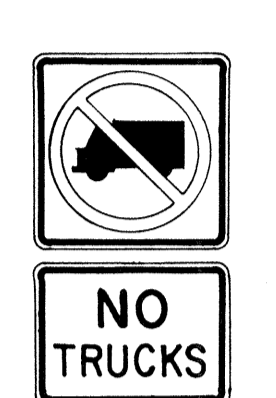
R4-7 24" x 30"
24" x 18"



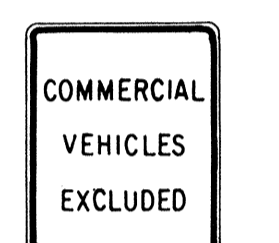
R4-8 24" x 30"
24" x 18"



R5-1 30" x 30"
R5-1-A 48" x 48"



R5-2 24" x 24"
24" x 18"



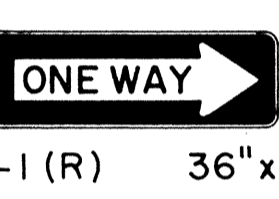
R5-4 24" x 30"



R5-6 24" x 24"
24" x 18"



R5-9 36" x 24"



R6-1(R) 36" x 12"



R6-2(R) 18" x 24"



R7-1 12" x 18"
R7-1-A 24" x 30"



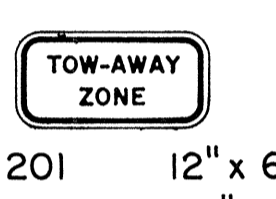
R7-4 12" x 18"
R7-4-A 24" x 30"



R7-1.7(R) 12" x 18"



R7-108 12" x 18"



R7-201 12" x 6"
R7-201-A 24" x 12"



R8-1 24" x 30"



R8-2 24" x 30"



R8-3 24" x 30"



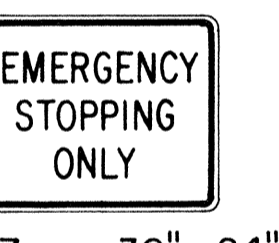
R8-4 30" x 24"
R8-4-A 48" x 36"



R8-5 24" x 30"



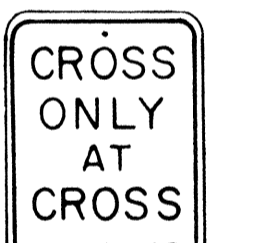
R8-6 24" x 30"



R8-7 30" x 24"
R8-7-A 48" x 36"



R9-1 18" x 24"



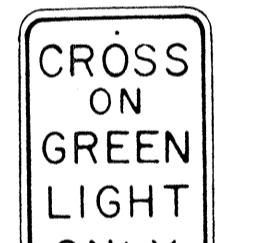
R9-2 12" x 18"



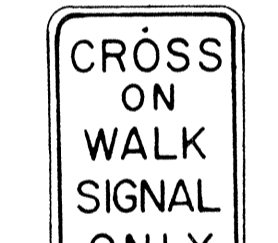
R9-3 12" x 18"



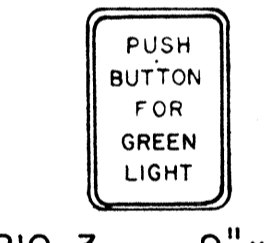
R9-4 18" x 24"



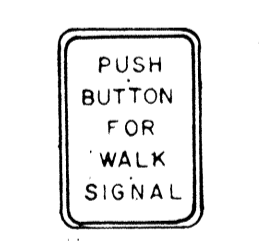
R10-1 12" x 18"



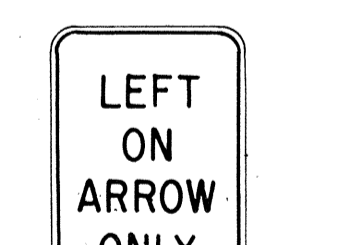
R10-2 12" x 18"



R10-3 9" x 12"



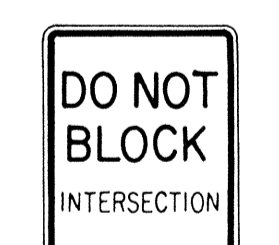
R10-4 9" x 12"



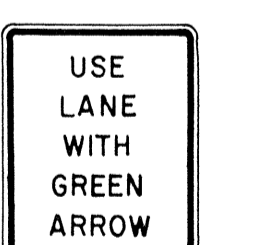
R10-5 24" x 30"



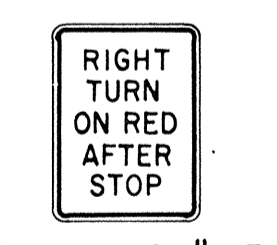
R10-6 24" x 36"



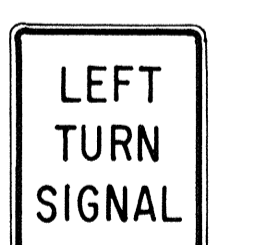
R10-7 24" x 30"



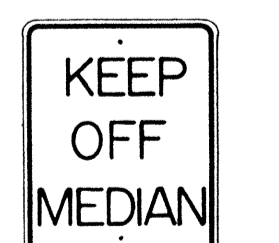
R10-8 24" x 30"



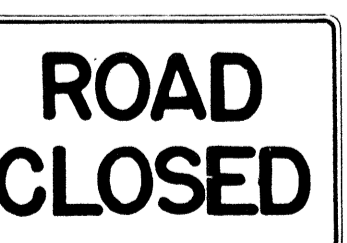
R10-9 24" x 30"



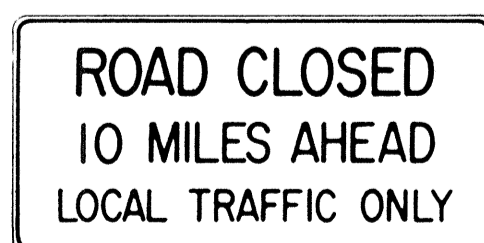
R10-10 24" x 30"



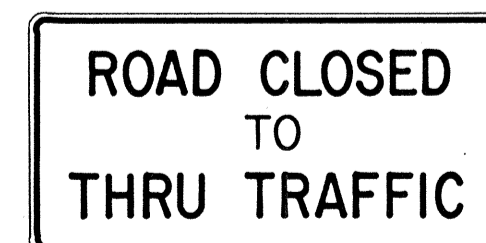
R11-1 24" x 30"



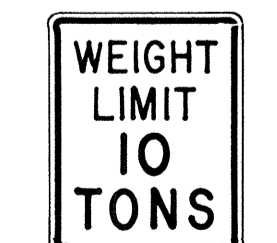
R11-2 48" x 30"



R11-3(10) 60" x 30"



R11-4 60" x 30"



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," 1972, and as amended.
2. All regulatory signs shall be reflectorized unless otherwise specified.
3. All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
4. Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
5. All signs shall be erected without educational plaques unless called for in the plans.

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

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

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H.A.	3/20/72
2	Revised General Note 1.	H.A.	10/10/74
3	Added General Note 5	H.A.	8/7/77

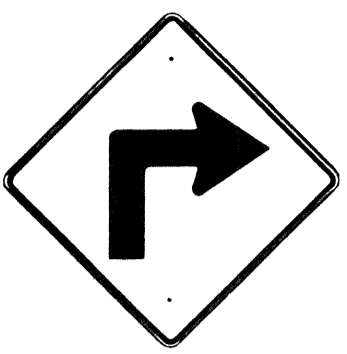

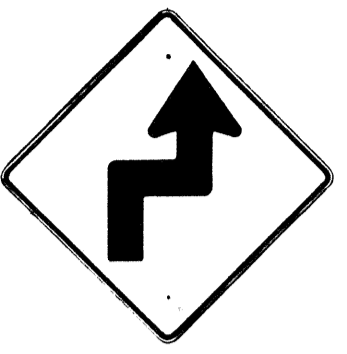
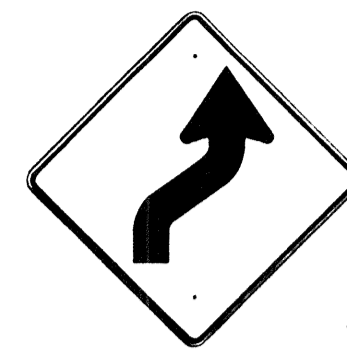
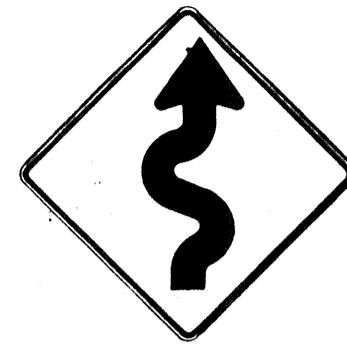
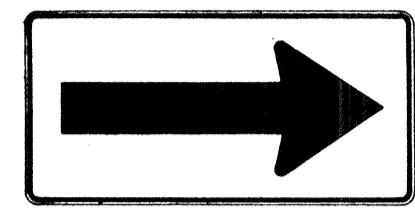
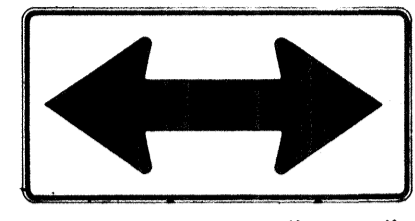
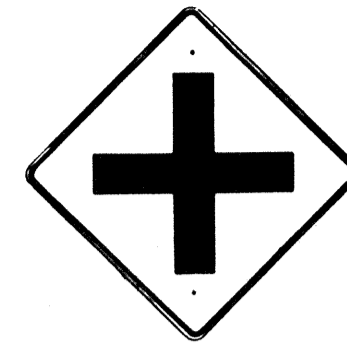
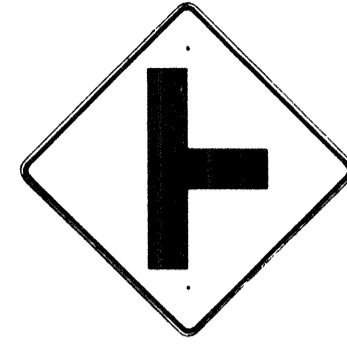
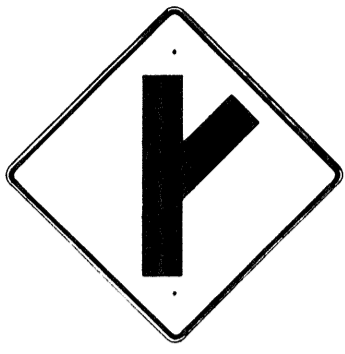
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

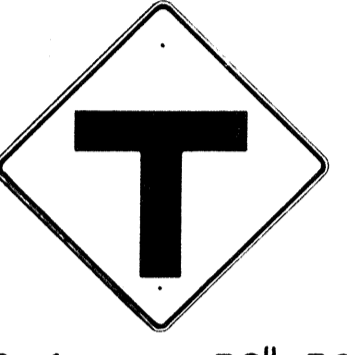
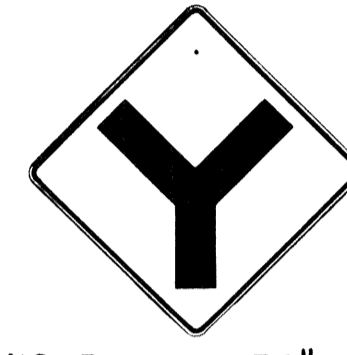


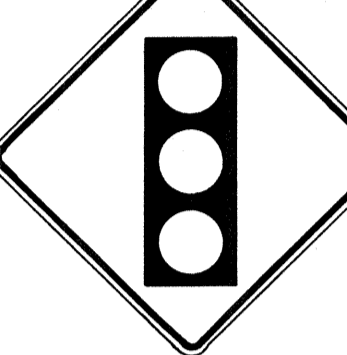

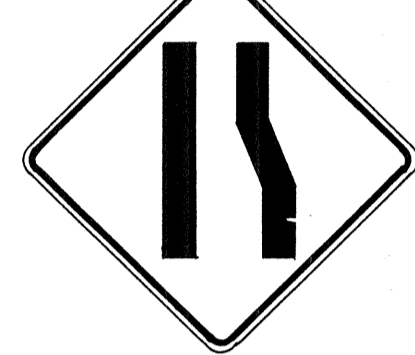



**STANDARD DETAILS
REGULATORY SIGNS**



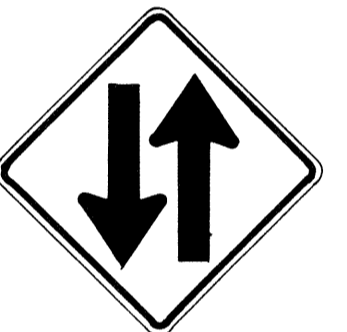







NOT TO SCALE
SHEET No. 11 OF 18 SHEETS DT 101



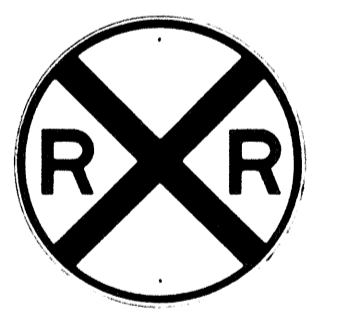




DATE
SURVEY PLOTTED BY
PLAN
DESIGNED BY
NOTE BOOK
QUANTITIES BY
CHECKED BY
No.

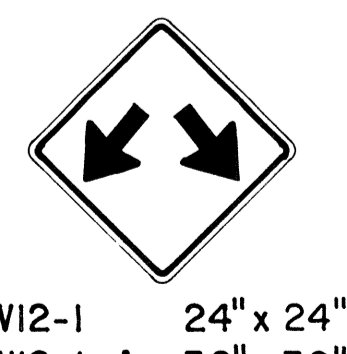

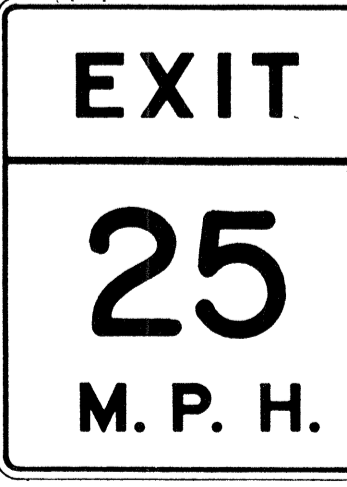
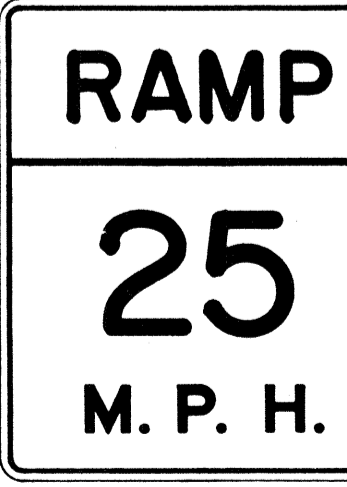


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII*	HAW.	FF-080-1(5)	1980	68	123

									
W1-1(R) 30"x30" W1-1(R)-A 48"x48"	W1-2(R) 30"x30" W1-2(R)-A 48"x48"	W1-3(R) 30"x30" W1-3(R)-A 48"x48"	W1-4(R) 30"x30" W1-4(R)-A 48"x48"	W1-5(R) 30"x30" W1-5(R)-A 48"x48"	W1-6 48"x24"	W1-7 48"x24"	W2-1 30"x30" W2-1-A 48"x48"	W2-2 30"x30" W2-2-A 48"x48"	W2-3(R) 30"x30" W2-3(R)-A 48"x48"

									
W2-4 30"x30" W2-4-A 48"x48"	W2-5 30"x30" W2-5-A 48"x48"	W3-1 30"x30" W3-1-A 36"x36"	W3-2 30"x30" W3-2-A 36"x36"	W3-3 36"x36" 24"x18"	W4-1(R) 30"x30" 24"x18" W4-1(R)-A 48"x48" 24"x18"	W4-2(R) 36"x36" W4-2(R)-A 48"x48"	W5-1 36"x36"	W5-2 30"x30" W5-2-A 36"x36"	W5-3 36"x36"

									
W6-1 36"x36" 24"x18"	W6-2 36"x36" 24"x18"	W6-3 30"x30" 24"x18" W6-3-A 36"x36" 24"x18" W6-3-B 48"x48" 24"x18"	W7-1 30"x30" 24"x18" W7-1-A 36"x36" 24"x18"	W7-2 24"x18"	W8-1 30"x30" W8-1-A 36"x36"	W8-2 30"x30" W8-2-A 36"x36"	W8-3 30"x30" W8-3-A 36"x36"	W8-4 30"x30" W8-4-A 36"x36"	W8-5 30"x30" 24"x18" W8-5-A 36"x36" 24"x18"

						
W9-1(R) 30"x30" W9-1(R)-A 36"x36" W9-1(R)-B 48"x48"	W9-2(L) 36"x36" W9-2(L)-A 48"x48"	W10-1 36" Diameter	W11-1 30"x30" 24"x18" W11-1-A 36"x36" 24"x18"	W11-2 30"x30" 24"x18" W11-2-A 36"x36" 24"x18"	W11-4 30"x30" 24"x18" W11-4-A 36"x36" 24"x18"	W11-5 30"x30" 24"x18" W11-5-A 36"x36" 24"x18"

						
W12-1 24"x24" W12-1-A 36"x36" W12-1-B 48"x48"	W12-2(12'-6") 36"x36" 24"x18"	W13-1(25) 18"x18" W13-1(25)-A 24"x24"	W13-2(25) 48"x60"	W13-3(25) 48"x60"	W14-1 30"x30"	W14-3 36"x48"x48"

GENERAL NOTES

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

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

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

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 102 Approved 12-30-69	H.T.	3/20/72
2	Revised General Note 1	H.T.	10/16/74
3	Revised General Note 5	M.T.	9-16-75
4	Revised General Note 5	H.T.	9-14-76
5	Added Note 1	H.T.	11-9-79

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
WARNING SIGNS

NOT TO SCALE
 SHEET No. 12 OF 18 SHEETS DT 102

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

NOTE
 1. All signs shall be erected without educational plaques unless called for in the plans.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FF-0001(6)	1980	69	123

General Notes

- Sign details shall conform to the latest editions of the following FHWA publications:
 - "Standard Alphabets for Highway Signs," and as amended.
 - "Standard Highway Signs," and as amended.
 - "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
- All signs shall be reflectorized with reflective sheeting, unless otherwise specified.
- All signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicate 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, and shall be reflectorized with reflective sheeting.
- All signs shall be erected without educational plaques unless called for in the plans.

ALL WAY
R1-4 18" x 6"

REDUCED SPEED AHEAD
35
R2-5d(35) 24" x 30"
R2-5d(35)-A 48" x 60"

SPEED LIMIT ENFORCED BY VASCAR
4" Series D
- 4" Series C
- 3" Series D
- 5" Series C
R2-10 24" x 30"

CENTER LANE ONLY
R3-9b 24" x 36"

BUS STOP
R7-107(R) 12" x 24"

RESERVED PARKING
R7-8 12" x 18"
R7-8-A 24" x 30"

ANY TIME
- 4" Series C
- 1 1/2"
R8-3a 24" x 24"
24" x 18"
R8-3a-A 48" x 48"

NO PED XING
R9-3a 18" x 18"
18" x 12"
R9-3a-A 24" x 24"
24" x 18"

USE CROSSWALK
R9-3b(R) 18" x 12"

USE CROSSWALK
R9-3b(L) 18" x 12"

NO TURN ON RED
R10-11a 24" x 30"

TURN RIGHT ANY TIME WITH CAUTION
4" Series C
R16-1 24" x 30"

NO LEFT TURN ON RED
- 4" Series D -
- 3" Series D -
- 2" Series D -
- 3" Series D -
R16-3 18" x 24"

NO RIGHT TURN ON RED
R16-4 18" x 24"

UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 H.P., PEDESTRIANS KEEP OUT FREEWAY
3" Series C
4" Series E
R16-5 36" x 42"

U TURN AHEAD
- 8" Series F
- 5" Series D
R16-6 24" x 30"

U TURN OK
- 8" Series F
- 5" Series D
R16-7 24" x 30"

MOTOR-DRIVEN CYCLES PROHIBITED
4" Series B
R5-8 30" x 24"

U TURN
W17-1(L) 60" x 60"

STOP AHEAD
W3-1a 36" x 36"
24" x 18"
W3-1a-A 48" x 48"
24" x 18"

YIELD AHEAD
W3-2a 36" x 36"
24" x 18"
W3-2a-A 48" x 48"
24" x 18"

STOP AHEAD WHEN FLASHING
6" Series C
W3-4 48" x 48"

TRUCK CROSSING
W8-6 30" x 30"
W8-6-A 36" x 36"

THRU TRAFFIC MERGE LEFT
6" Series E
W9-3(L) 48" x 48"

EQUESTRIAN XING
W11-7 36" x 36"
24" x 18"
W11-7-A 48" x 48"
24" x 18"

FIRE STATION
W11-8 36" x 36"
24" x 18"
W11-8-A 48" x 48"
24" x 18"

WHEELCHAIR
W11-9 36" x 36"
W11-9-A 48" x 48"

LIMITED SIGHT DISTANCE
W14-4 36" x 36"
W14-4-A 48" x 48"

DELAYED GREEN - 4" Series C - **ADVANCE GREEN**
W15-1 24" x 24"
W15-2 24" x 24"

END FREEWAY 1/2 MI
8" Series E
CW16-1(1/2) 60" x 60"

RIGHT LANE EXIT ONLY
8" Series E
W18-1 48" x 60"

SCHOOL BUS STOP AHEAD
SI-1 36" x 36"

SCHOOL BUS STOP AHEAD
S2-1 36" x 36"

SCHOOL BUS STOP AHEAD
S3-1 30" x 30"

8:00 AM TO 3:30 PM
S4-1 24" x 10"
WHEN CHILDREN ARE PRESENT
S4-2 24" x 10"

SCHOOL
S4-3 24" x 8"
WHEN FLASHING
S4-4 24" x 10"

SIDEWALK CLOSED
7" Series D
CW23-4 48" x 48"

USE SIDEWALK
4" Series C
R18-1 24" x 18"

APPROVAL RECOMMENDED:
Eiichi Tanaka 5/2/78
TRAFFIC ENGINEER DATE

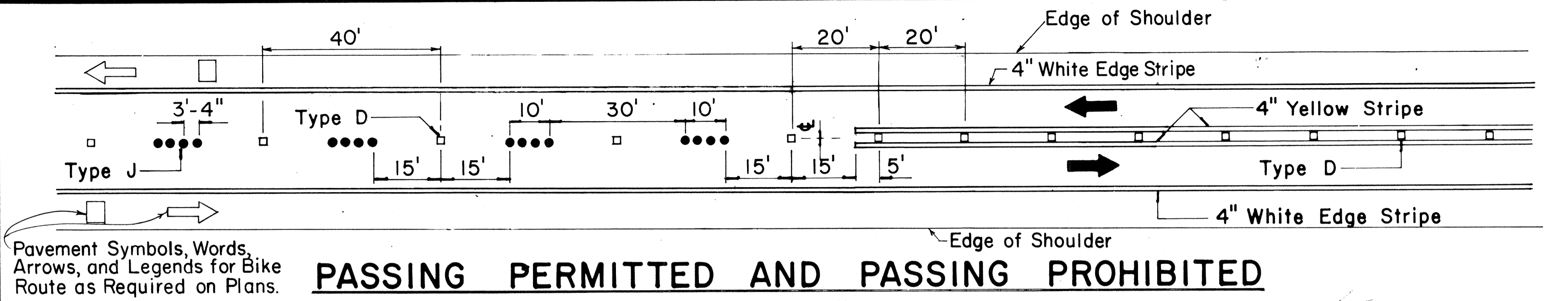
APPROVED:
Andrew Z. Zakechis 5/2/78
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 103 approved 3/20/72	H.T.	5/2/78
2	Added General Note 6	H.T.	11/7/78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
MISCELLANEOUS SIGNS
NOT TO SCALE DATE: MAY, 1978
SHEET No. 13 OF 18 SHEETS DT 103

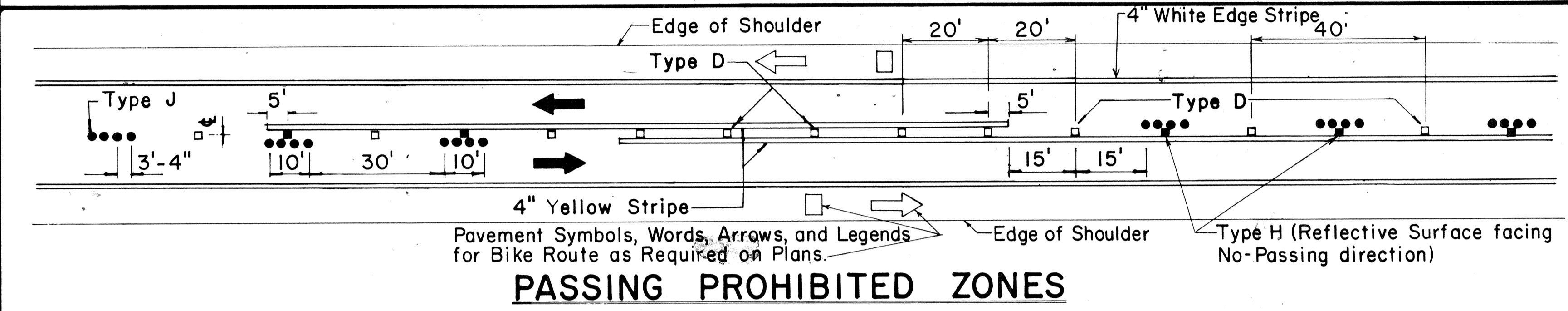
DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
TRACED BY: _____
DESIGNED BY: _____
QUANTITIES BY: _____
CHECKED BY: _____
ORIGINAL PLAN No. _____
NOTE BOOK No. _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FF-080-(5)	1980	70	123



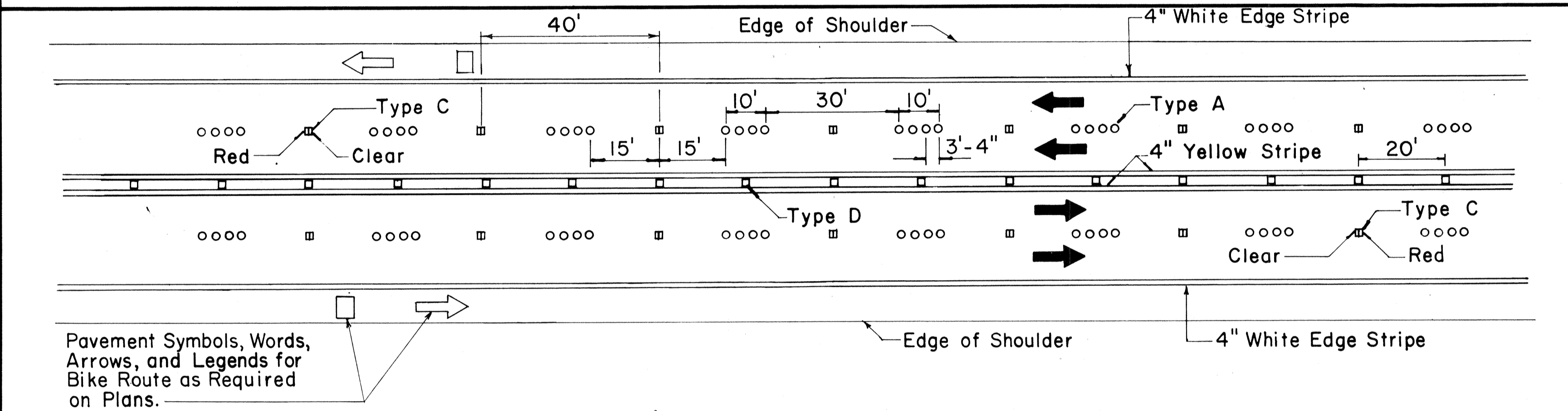
Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

PASSING PERMITTED AND PASSING PROHIBITED

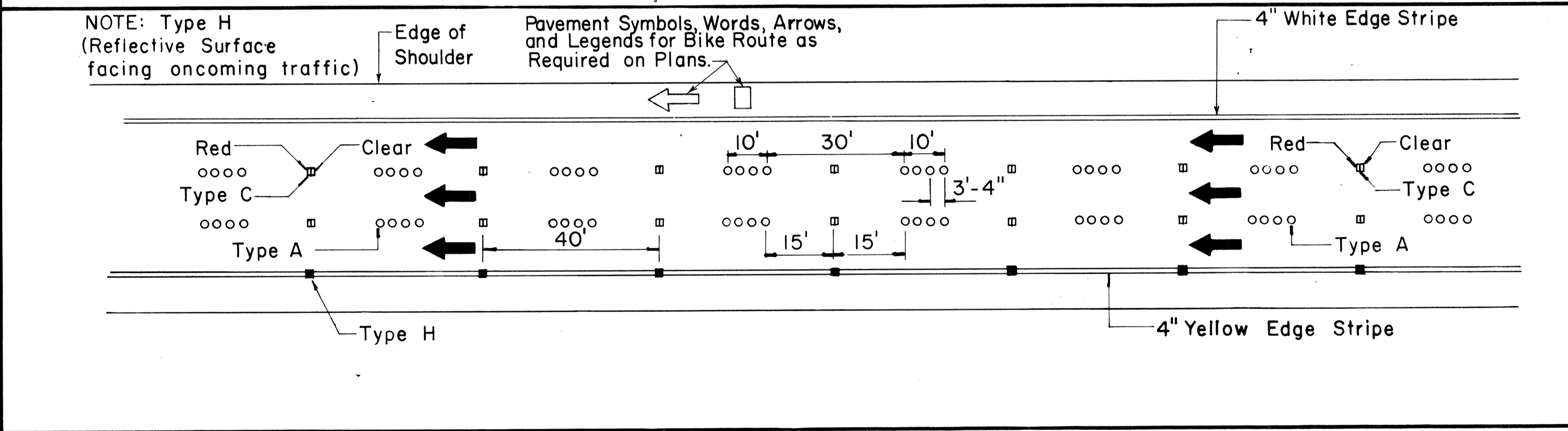


Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

PASSING PROHIBITED ZONES



Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.



NOTE: Type H (Reflective Surface facing oncoming traffic)

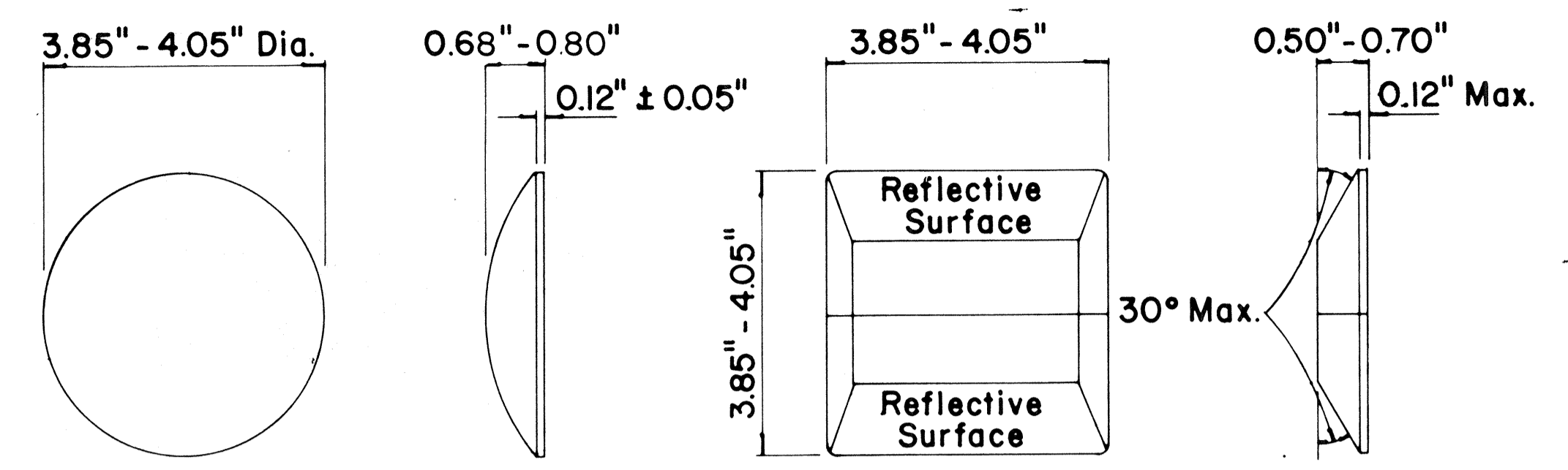
Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

TWO - LANE

MULTI - LANE

DIVIDED HIGHWAY AND FREEWAY

MISCELLANEOUS



TYPE A

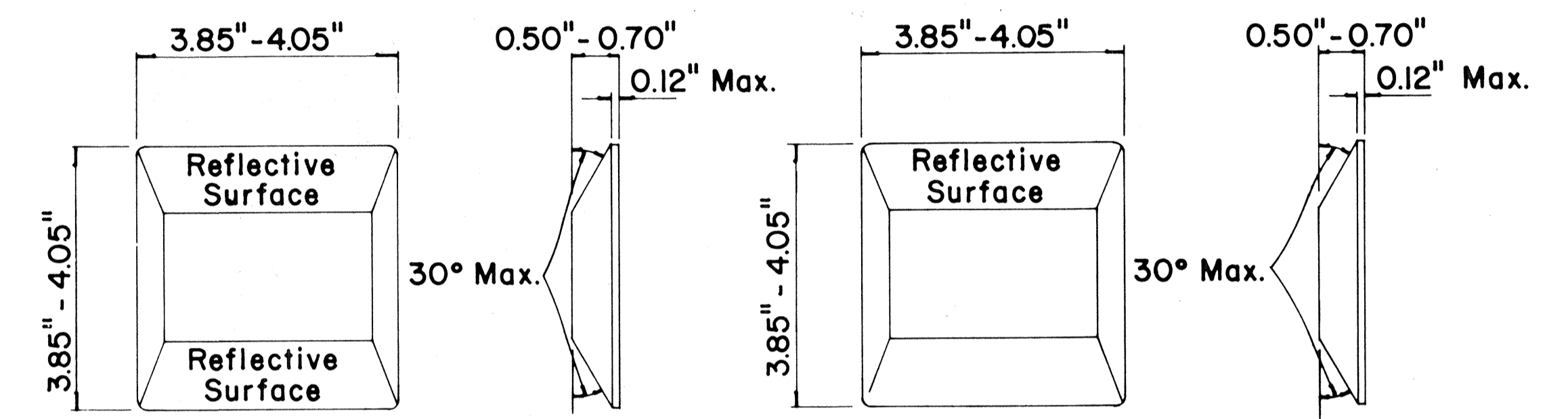
NON-REFLECTIVE WHITE MARKER

TYPE C

RED-CLEAR REFLECTIVE MARKER

TYPE J

NON-REFLECTIVE YELLOW MARKER



TYPE D

TWO-WAY YELLOW REFLECTIVE MARKER

TYPE H

ONE-WAY YELLOW REFLECTIVE MARKER

GENERAL NOTES

- Pavement marking and striping shall conform to the latest "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
- Layout and installation of pavement marking and striping shall be done by the Contractor. The Contractor shall check the layouts with the Engineer prior to performing work.

LEGEND

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

APPROVAL RECOMMENDED:

Eiichi Tanaka 7/21/78
TRAFFIC ENGINEER DATE

APPROVED:

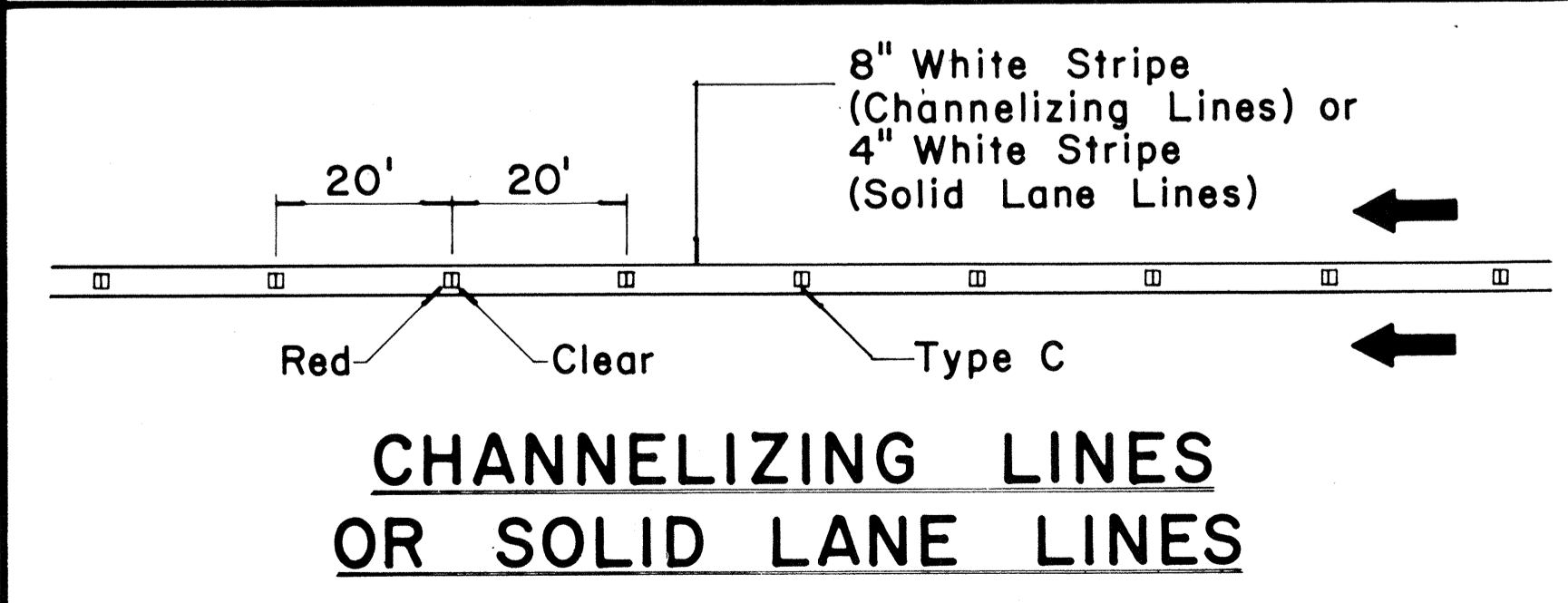
Harbert D. Sakai 1/24/78
ASSISTANT CHIEF, ENGINEERING DATE

No.	REVISION	APPROVED BY	DATE
1	Supersedes DT 300 approved 11/18/71.	H.f.	1/24/78
2	Delete Type A Markers from Bike Route Delineation.	H.f.	10/15/79

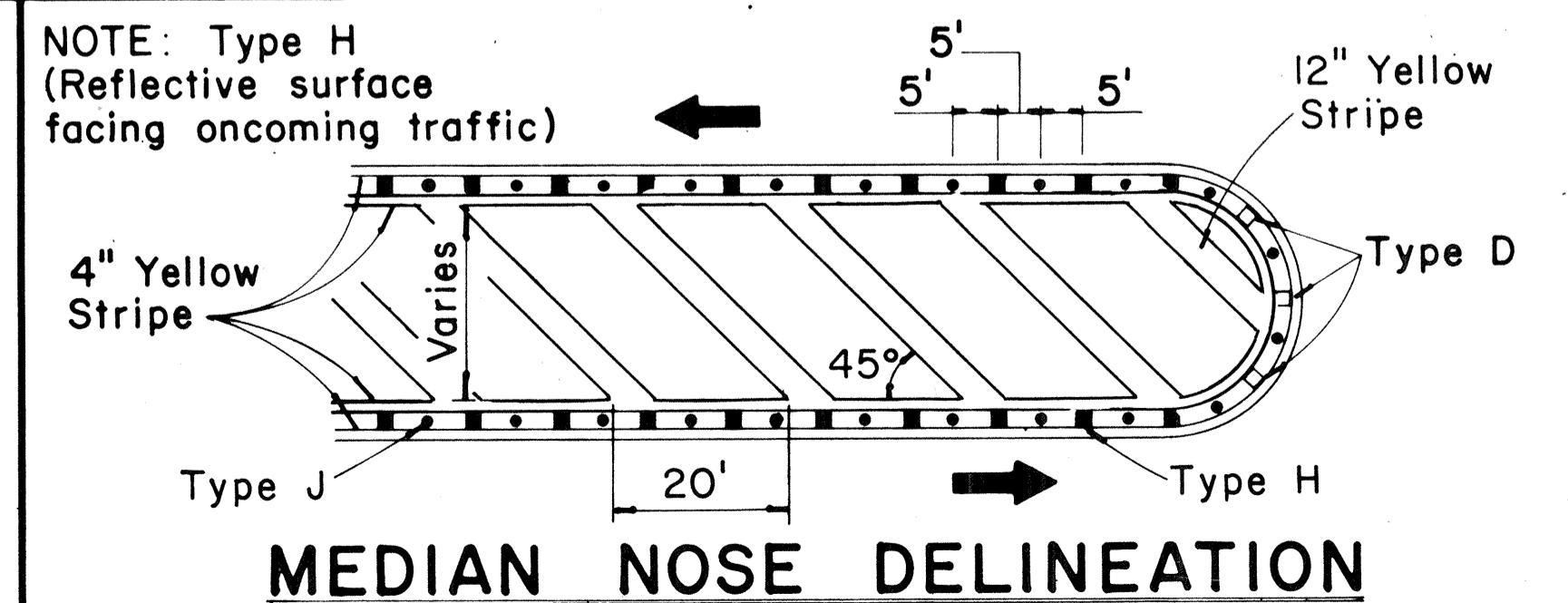
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STANDARD DETAILS
RAISED PAVEMENT MARKERS
AND STRIPING**

Not to Scale July 1978
SHEET No. 14 OF 13 SHEETS DT 300



CHANNELIZING LINES OR SOLID LANE LINES

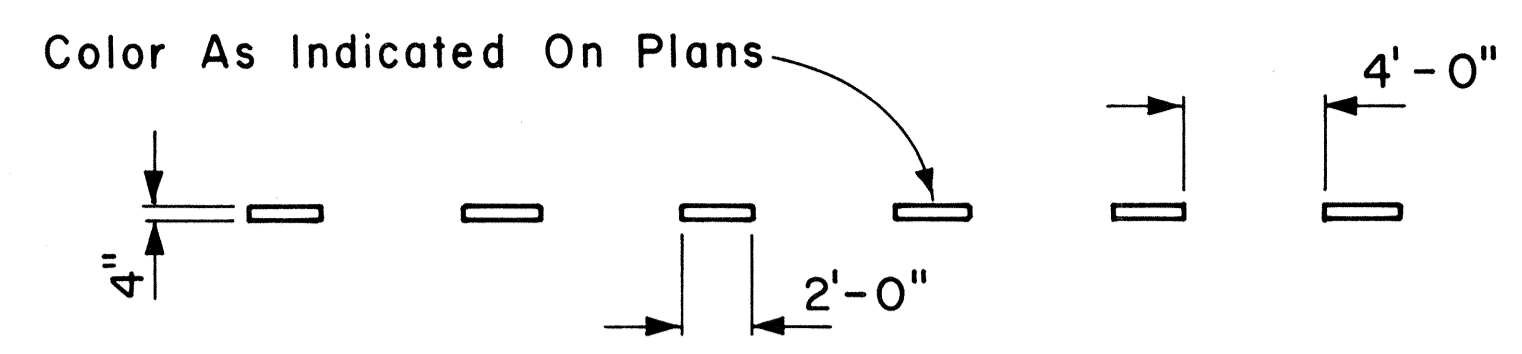


NOTE: Type H (Reflective surface facing oncoming traffic)

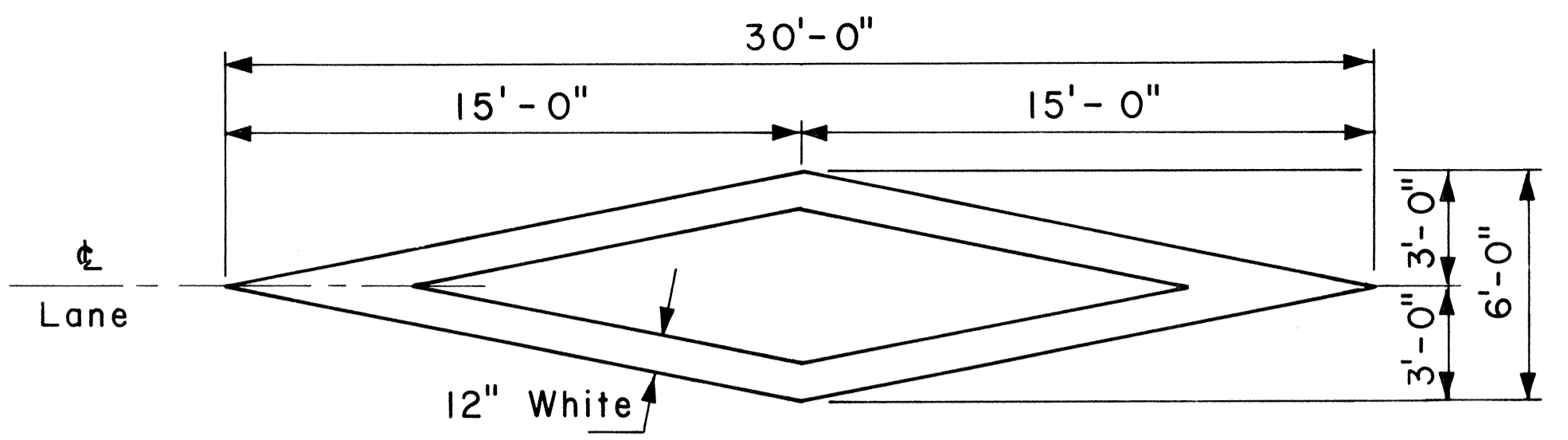
MEDIAN NOSE DELINEATION

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FF-080-1(9)	1980	71	123



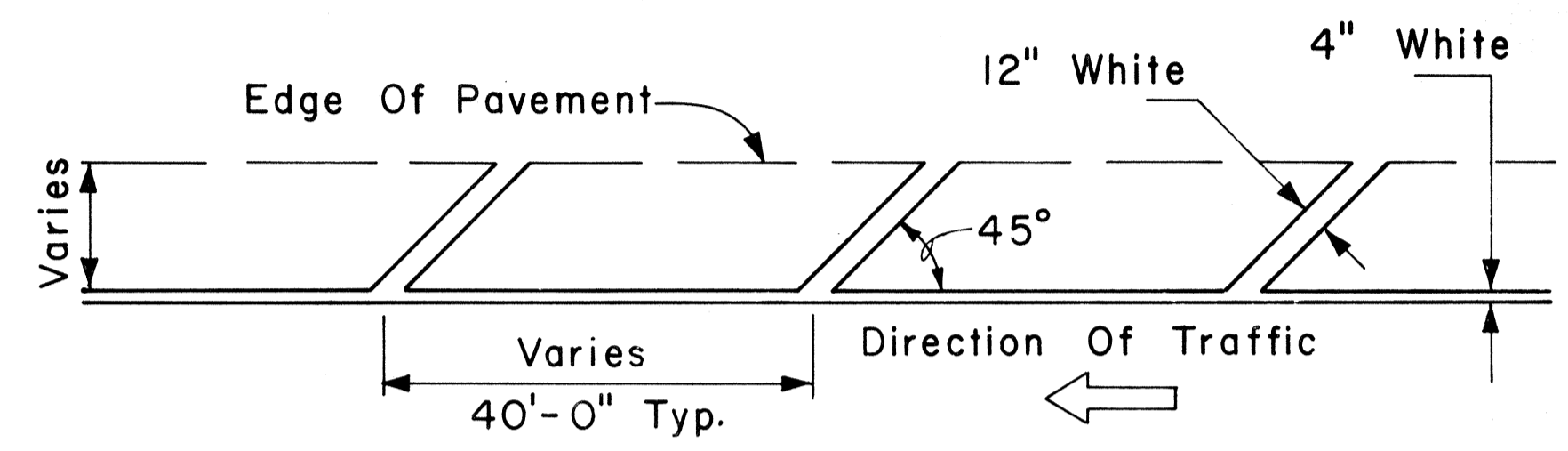
4" GUIDE LINE



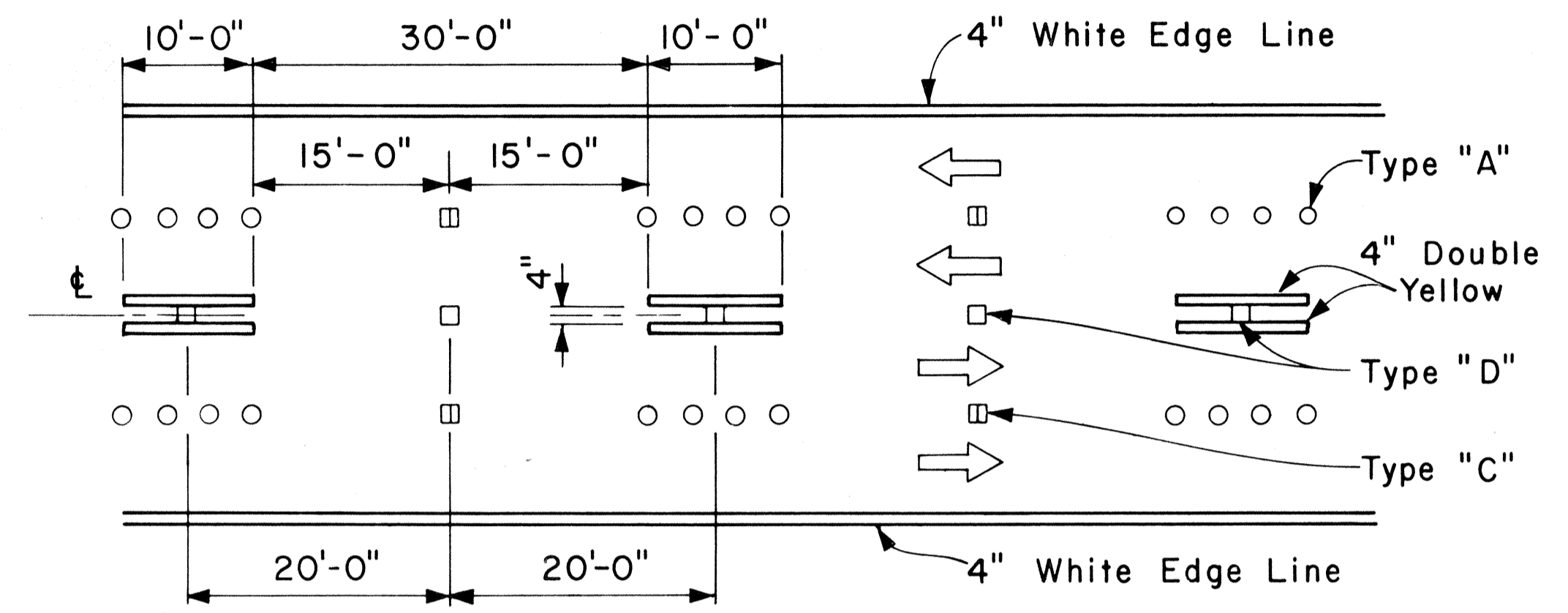
PAVEMENT DIAMOND

GENERAL NOTES:

1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Engineer prior to performing work.
3. For additional pavement marking details, see sheet DT 300.

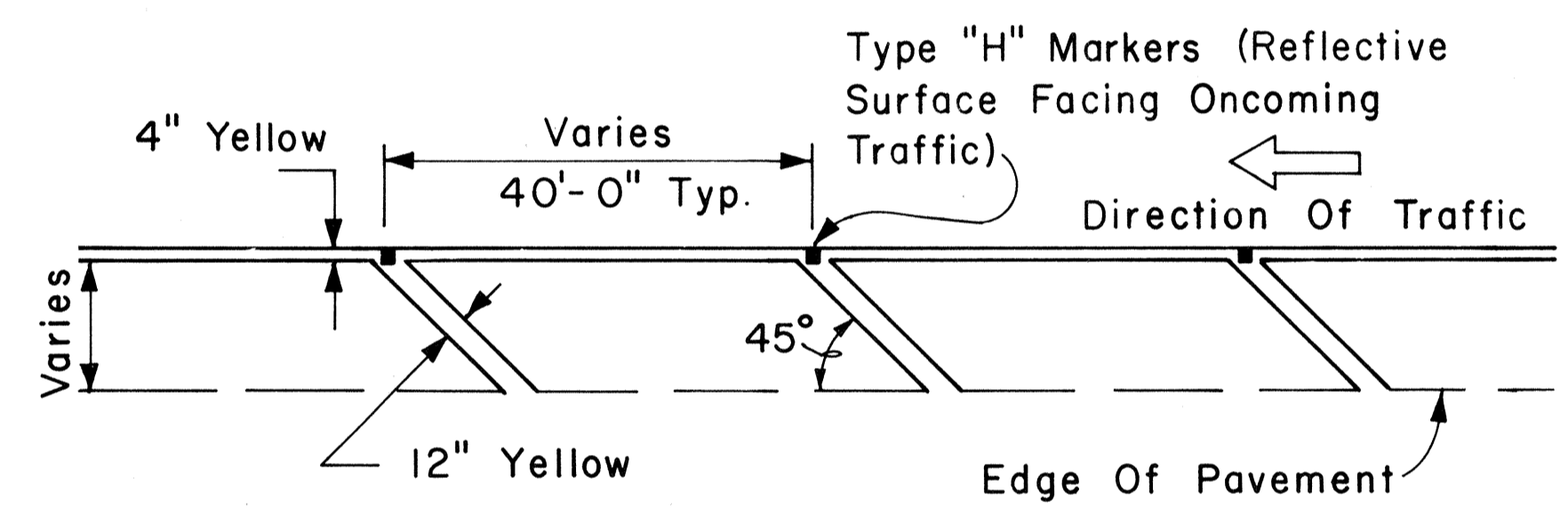


TRANSVERSE RIGHT SHOULDER MARKING

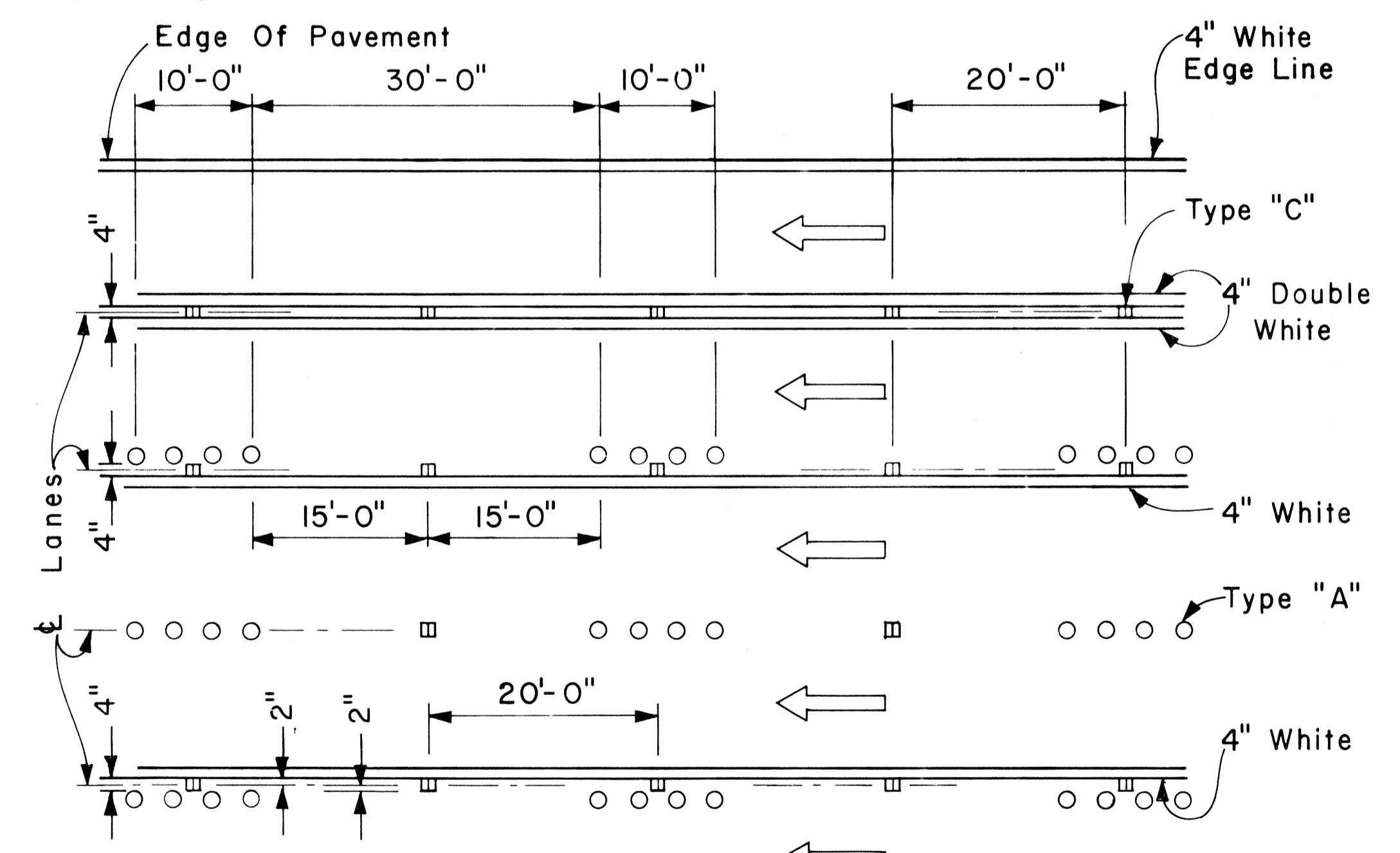


MULTI-LANE REVERSIBLE LANES

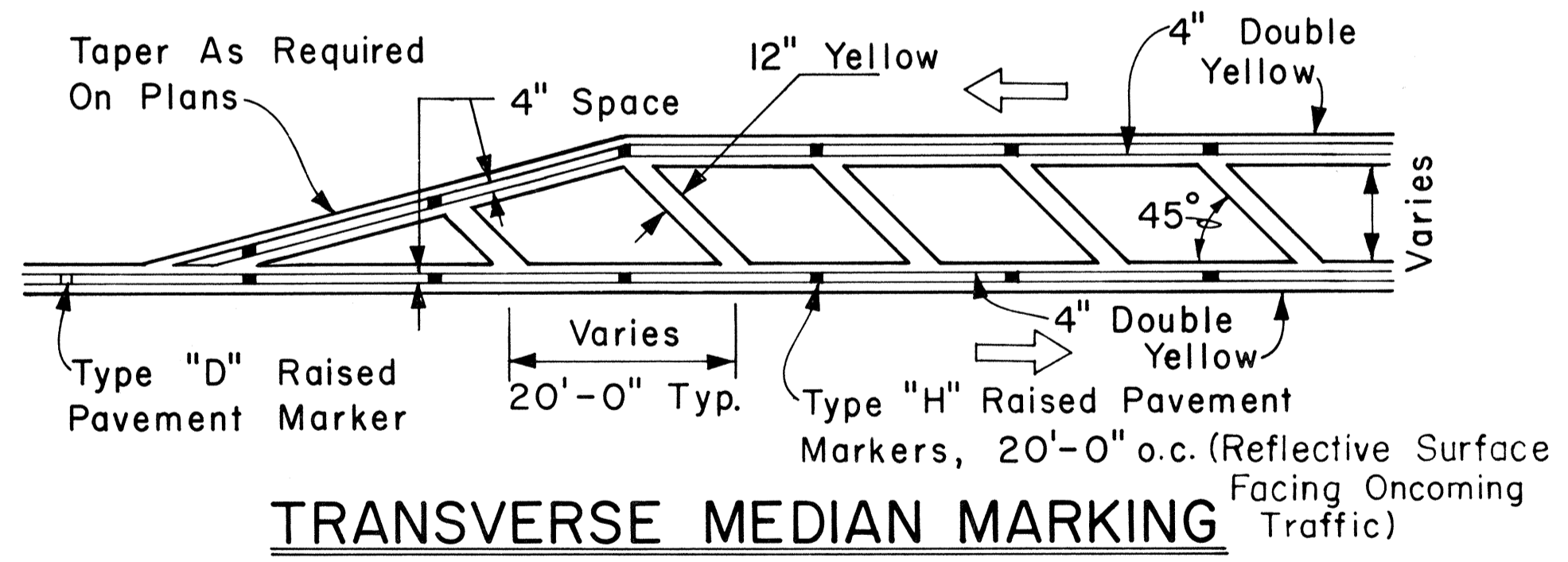
NOTE: Traffic Cone Usage Required.



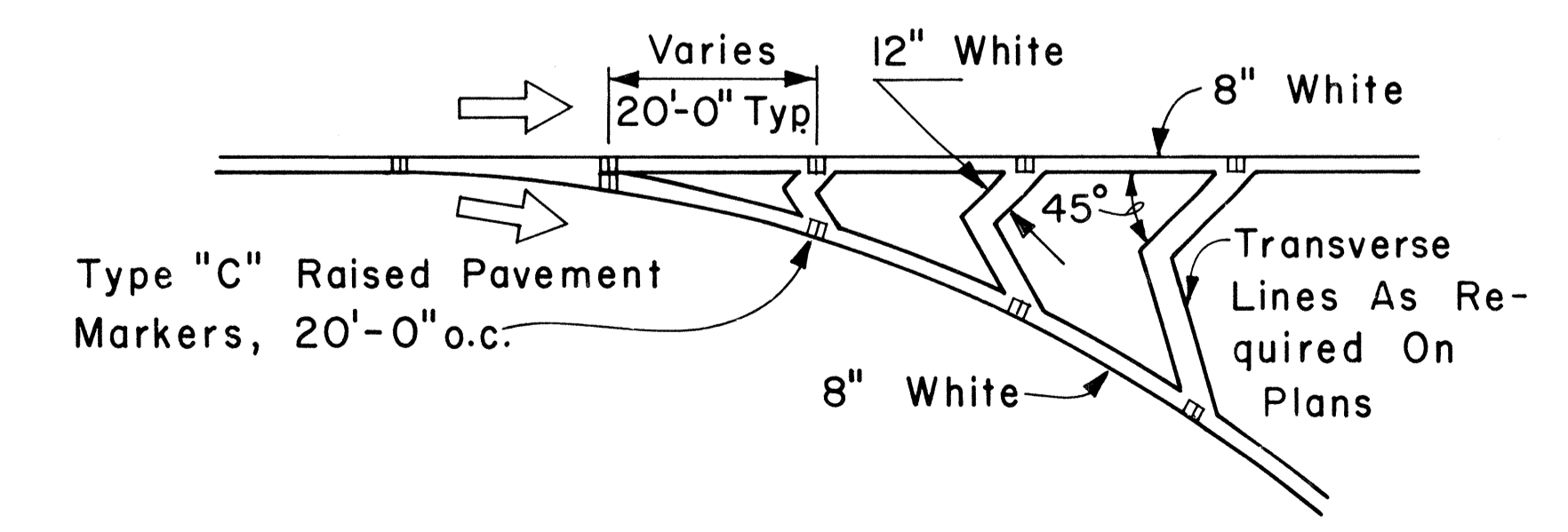
TRANSVERSE LEFT SHOULDER MARKING



MULTI-LANE LANE CHANGE RESTRICTION ZONES



TRANSVERSE MEDIAN MARKING



CHANNELIZING ISLAND

APPROVAL RECOMMENDED:
Eiichi Tanaka 5/2/78
 TRAFFIC ENGINEER DATE

APPROVED:
Harbor 2. Sakai 5/3/78
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

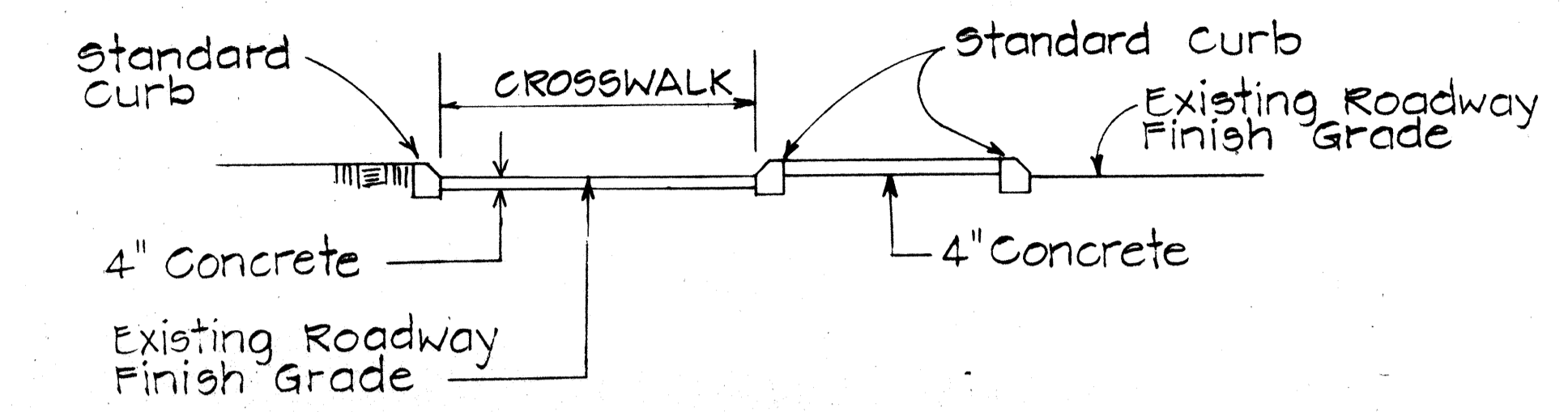
STANDARD DETAILS

MISCELLANEOUS
 PAVEMENT MARKINGS

Scale: Not to Scale Date: April, 1978
 SHEET No. 15 OF 18 SHEETS DT 302

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

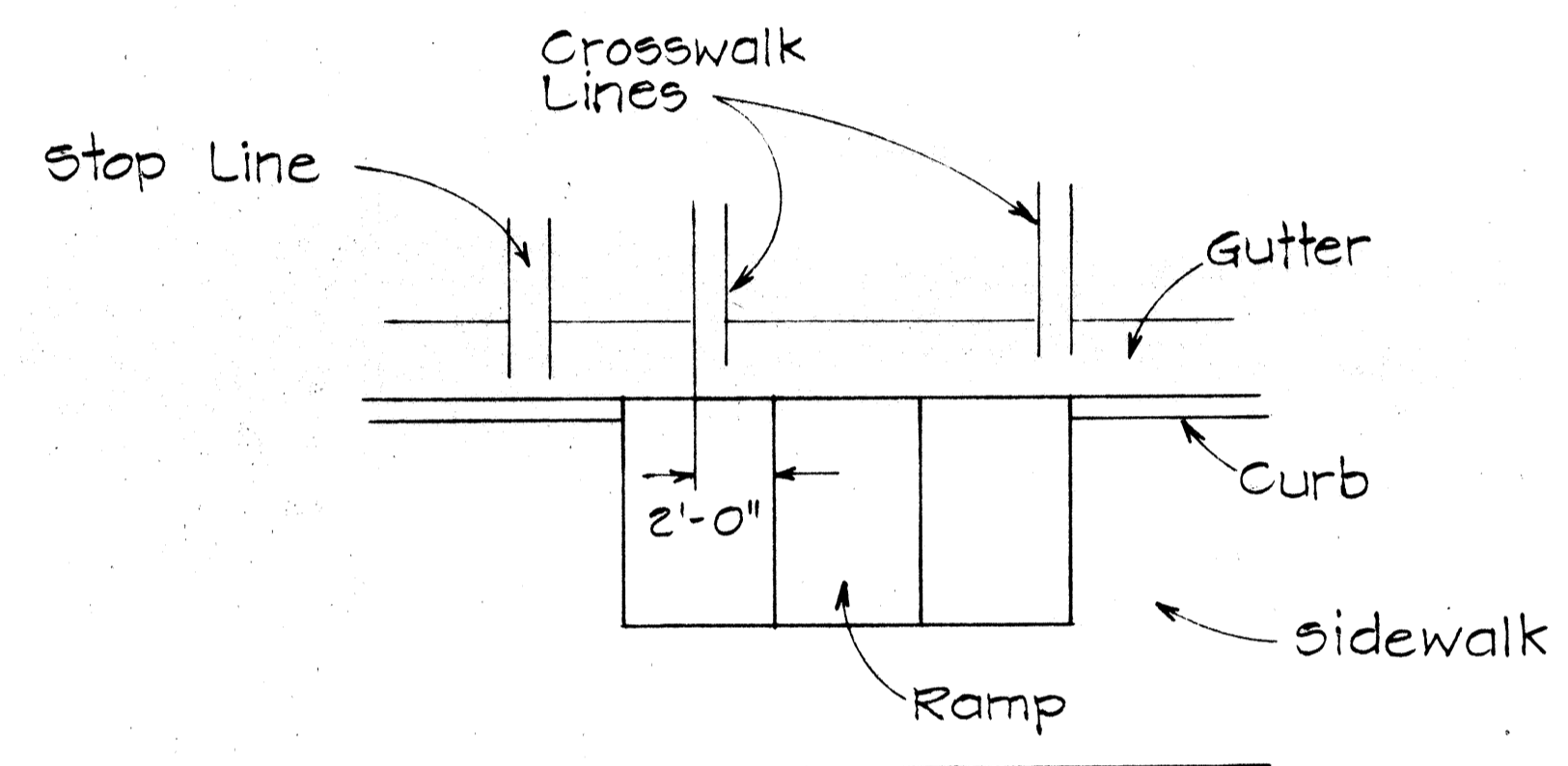
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-F-080-1(6)	1980	73	123



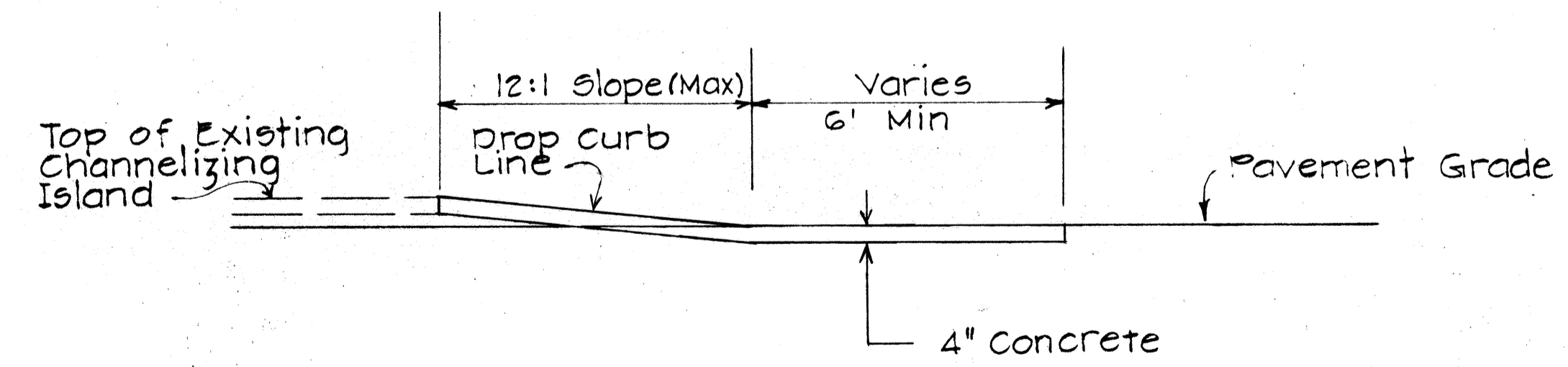
SECTION "A-A"

Use at Median Nose Crossings
Scale: 1" = 5'

For Additional Details, See Type "C" Wheel Chair Ramp



TYPICAL INSTALLATION AT CROSSWALKS
Scale: 1" = 5'



SECTION "B-B"

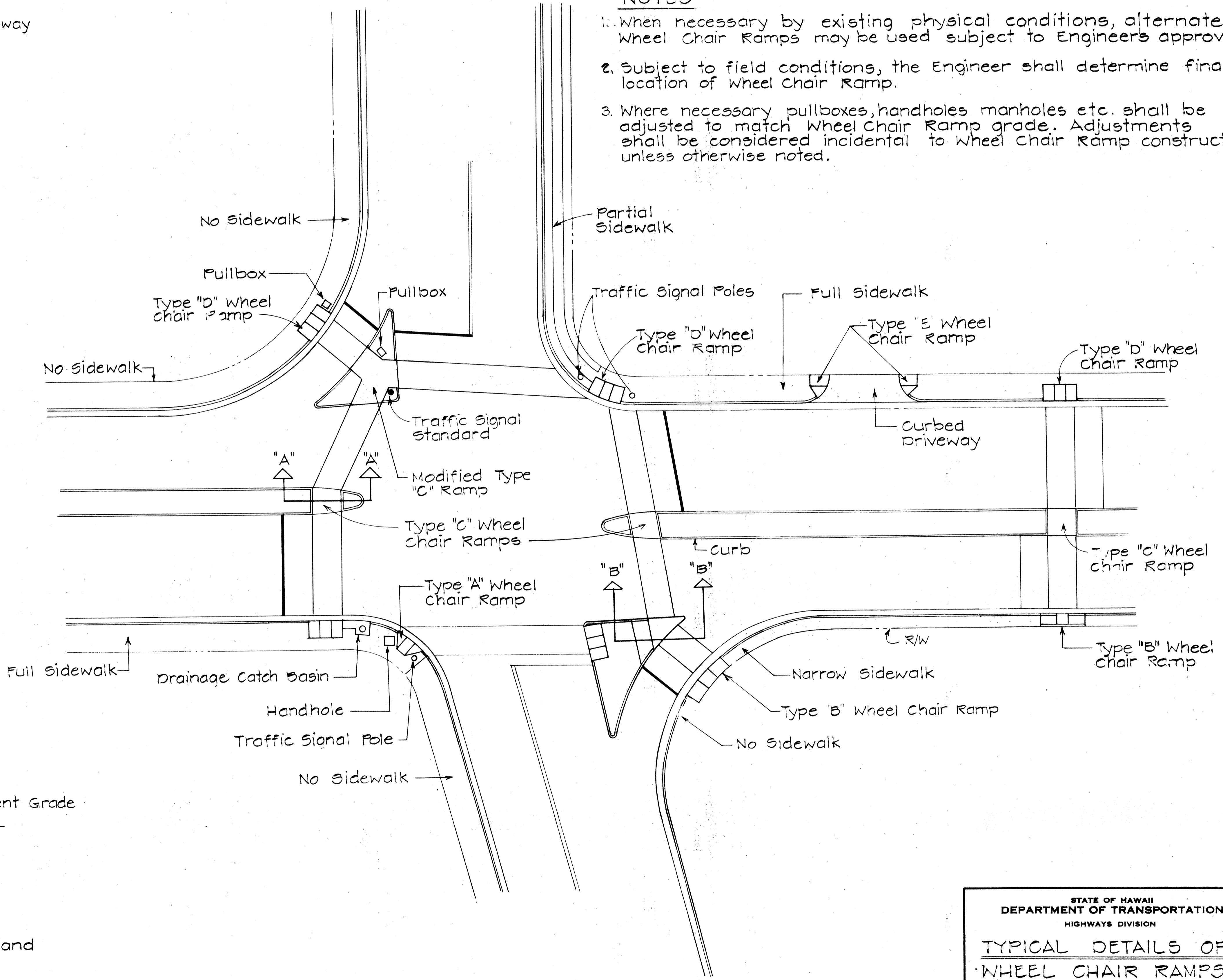
TYPE "B" MODIFIED WHEEL CHAIR RAMP

Use at Intersection of 2 Crosswalks on Channelizing Island
Scale: 3/8" = 1'

For Additional Details See Type "B" Wheelchair Ramp

NOTES

1. When necessary by existing physical conditions, alternate Wheel Chair Ramps may be used subject to Engineers approval.
2. Subject to field conditions, the Engineer shall determine final location of Wheel Chair Ramp.
3. Where necessary pullboxes, handholes manholes etc. shall be adjusted to match Wheel Chair Ramp grade. Adjustments shall be considered incidental to Wheel Chair Ramp construction, unless otherwise noted.



TYPICAL WHEEL CHAIR RAMPS
Scale: 1" = 20'

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

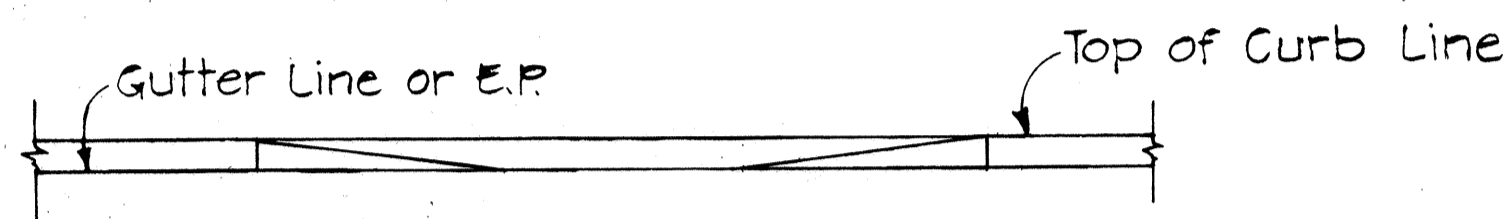
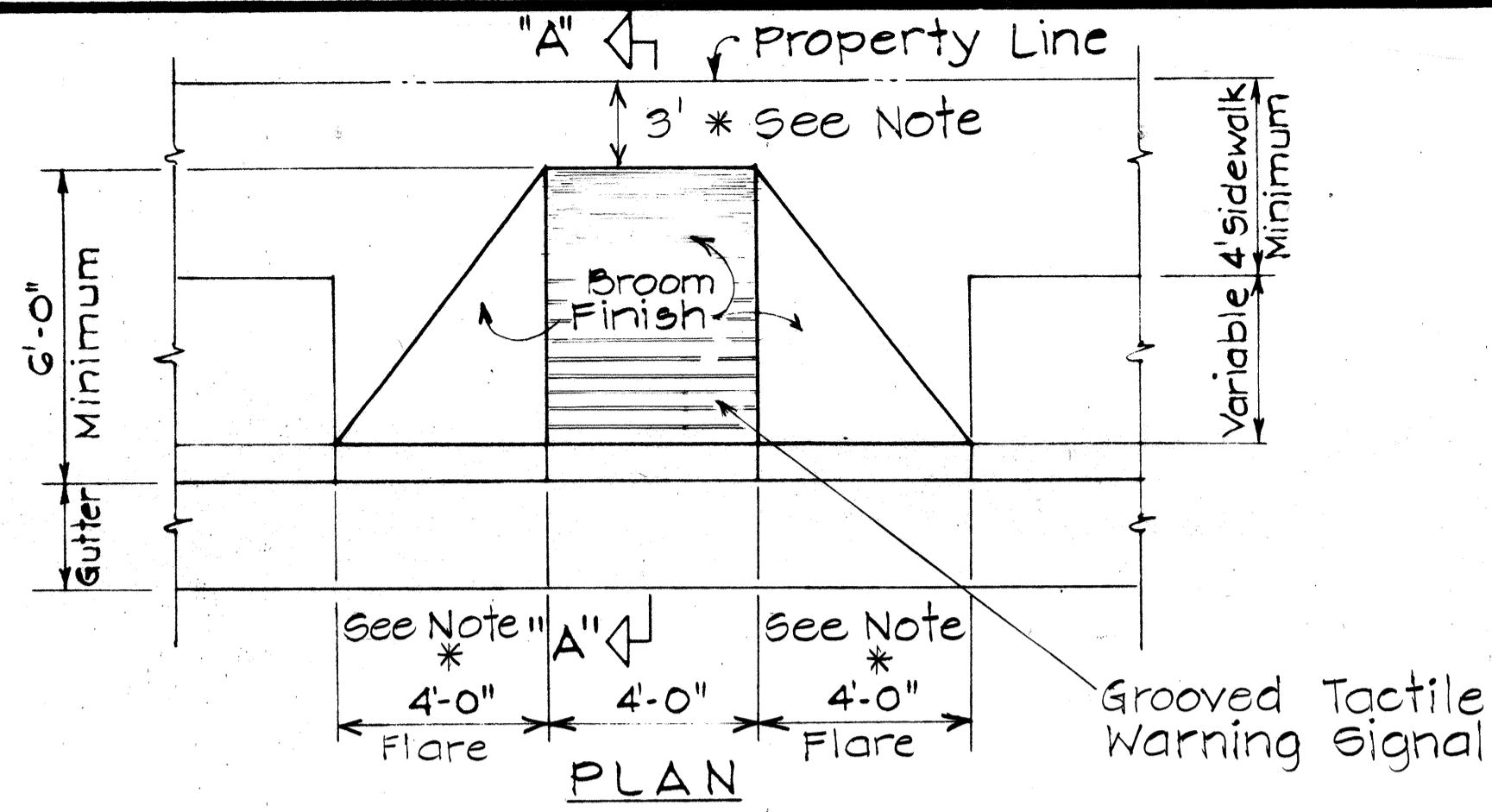
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS OF WHEEL CHAIR RAMPS

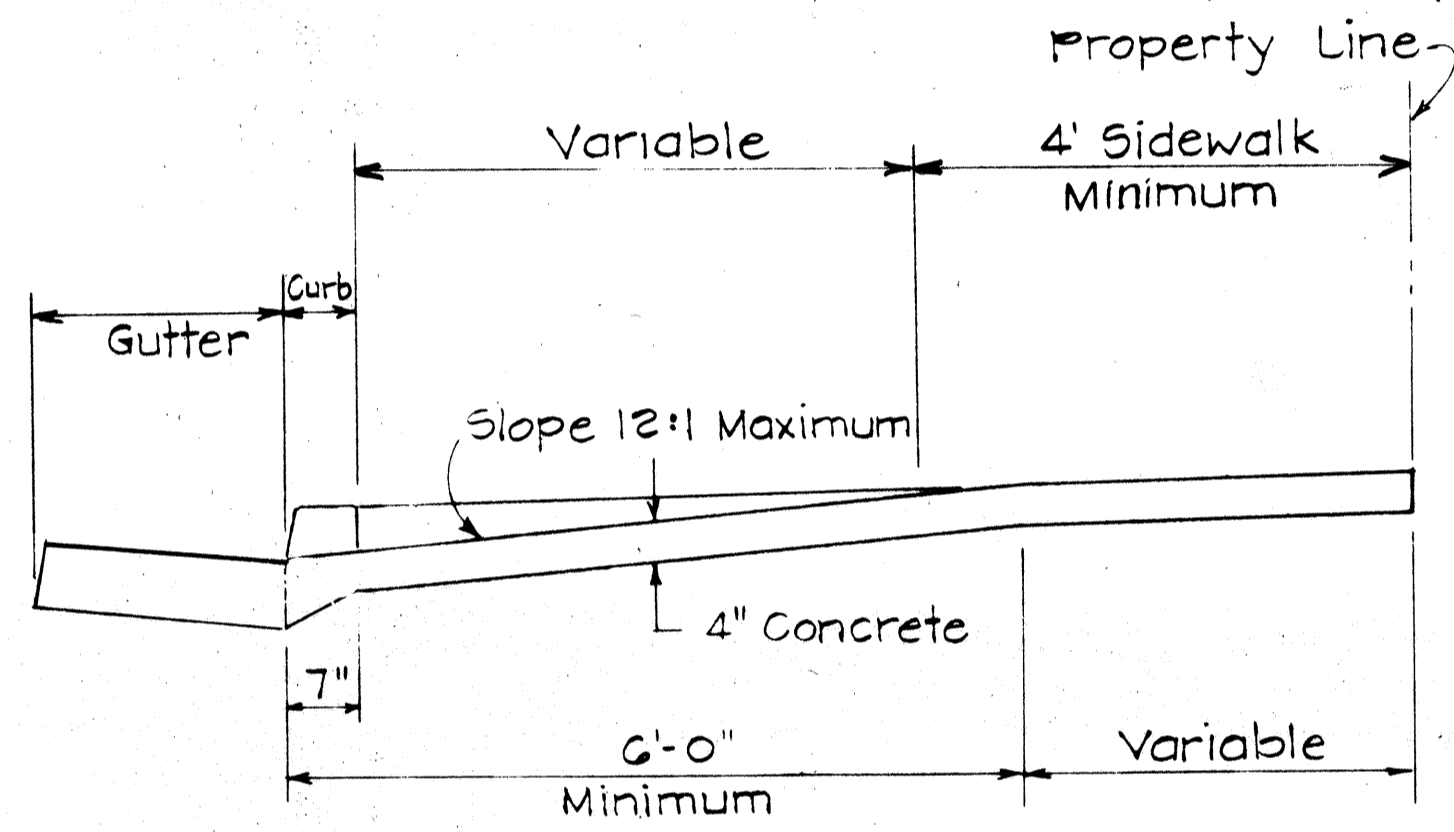
KAMEHAMEHA HWY., WAHIAWA
AVOCADO ST. TO KILANI AVE.
FED. AID PROJECT NO. F-F-080-1(5)
Scale: As Shown

SHEET No. 17 OF 18 SHEETS

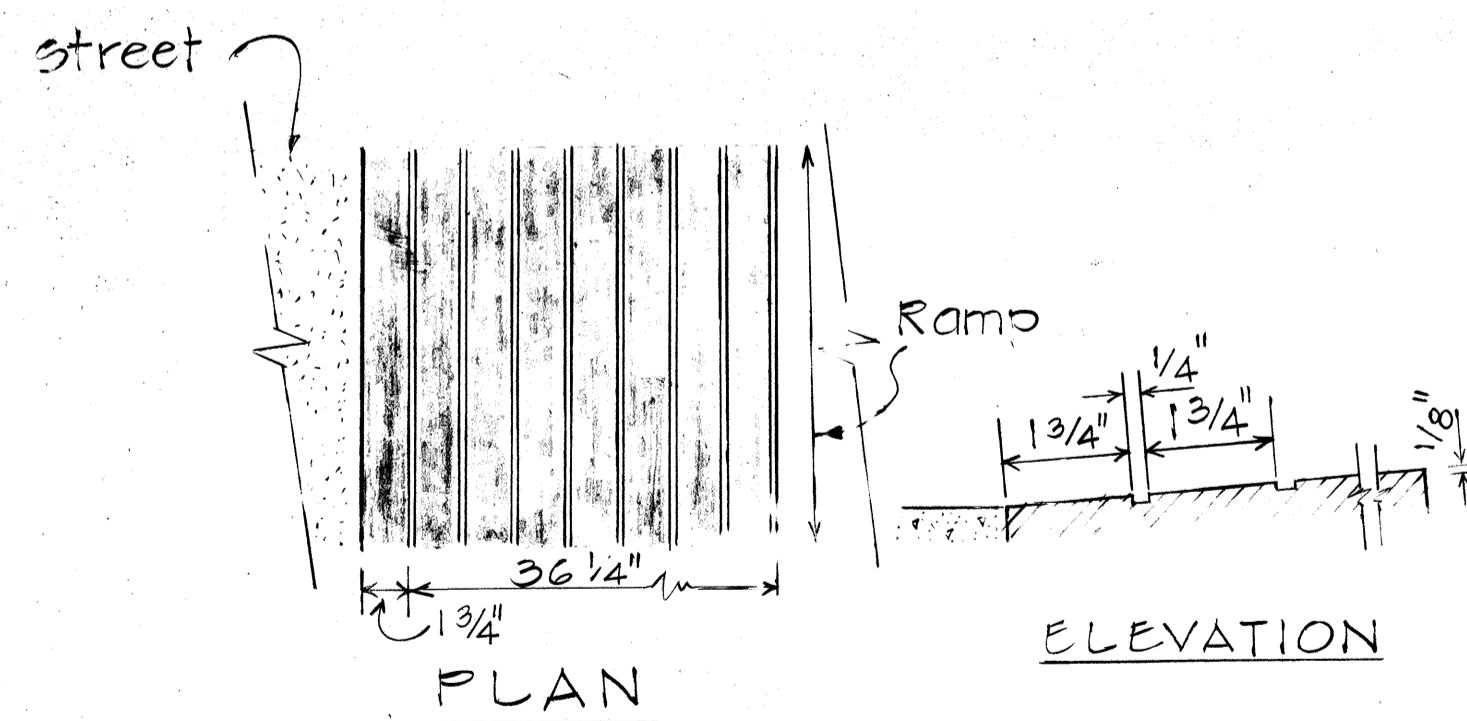
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-F-080-1(5)	1980	74	123



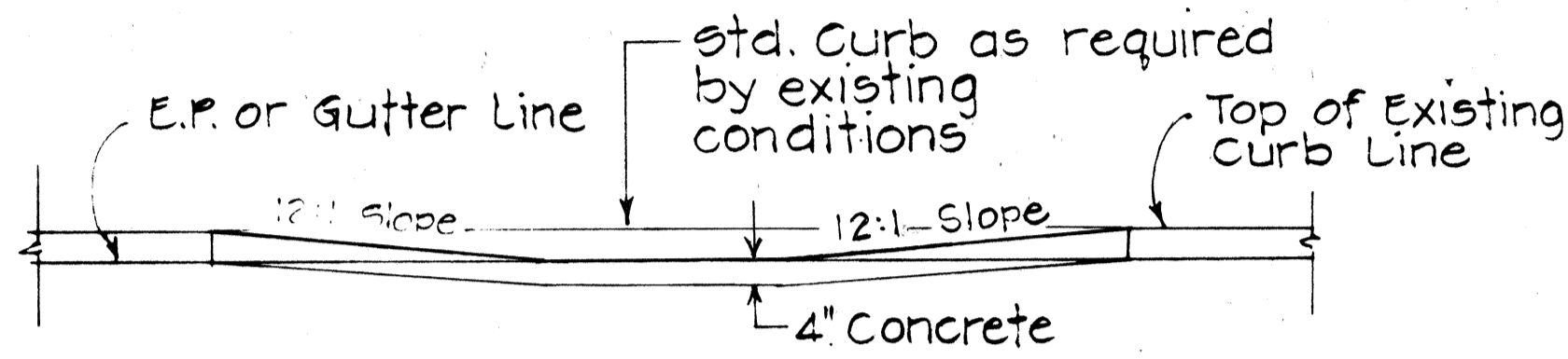
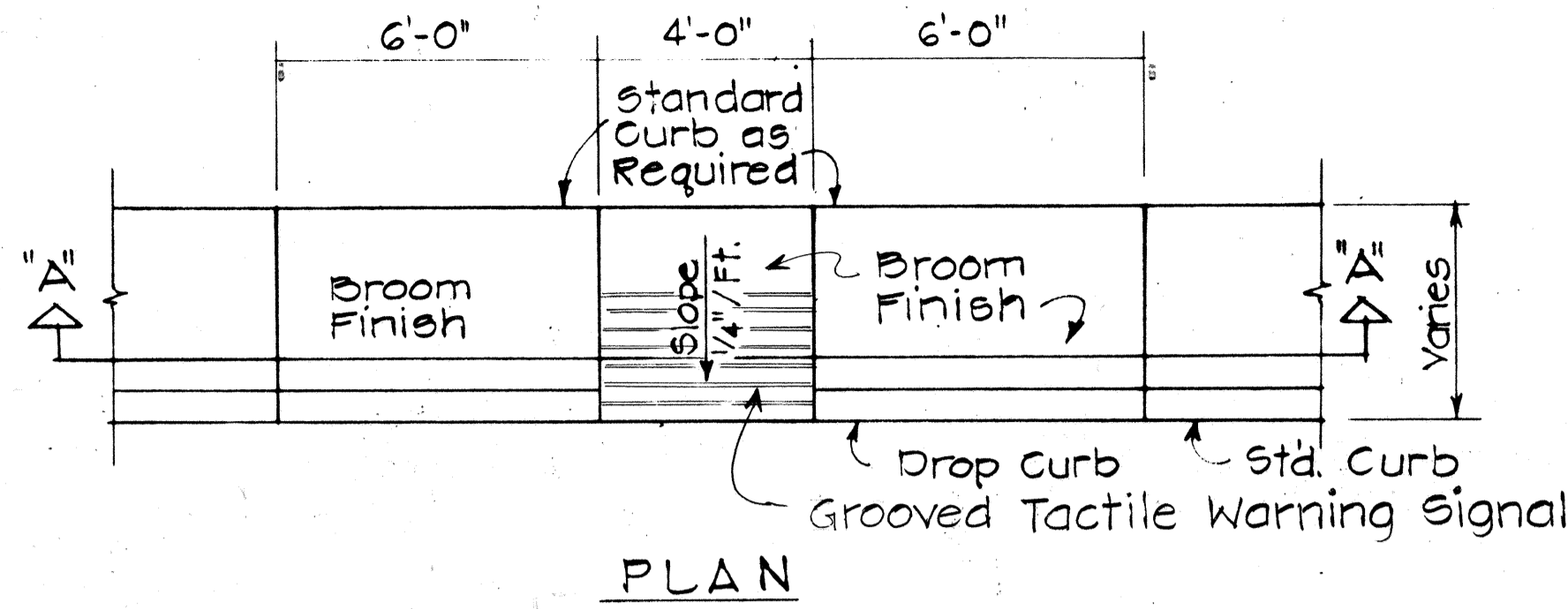
ELEVATION
* Where dimension is less than 3', Flare width shall be 5'



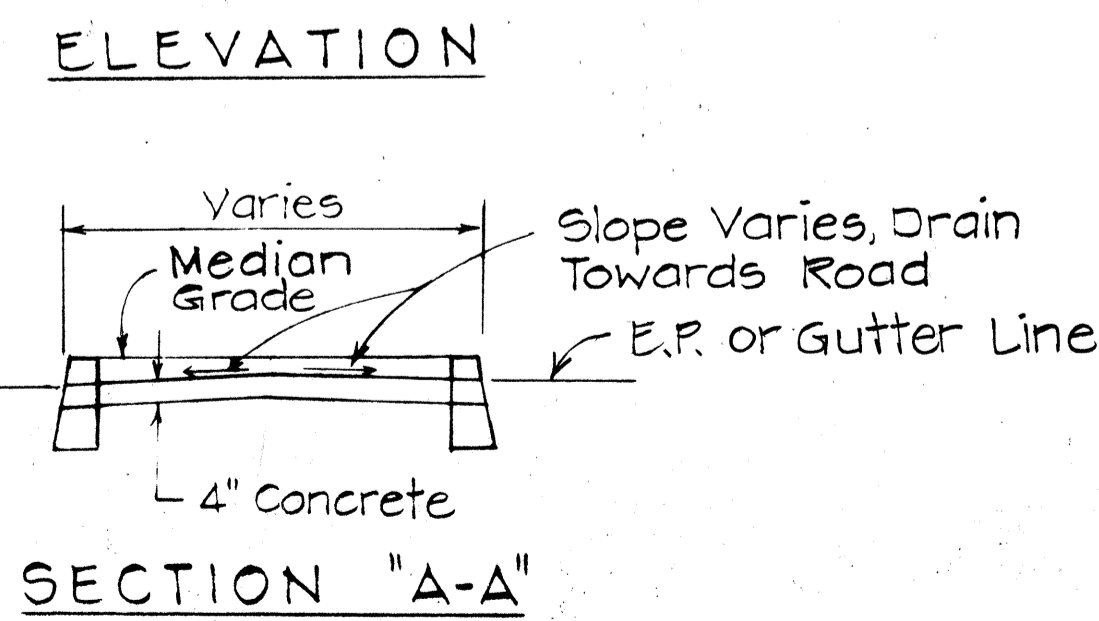
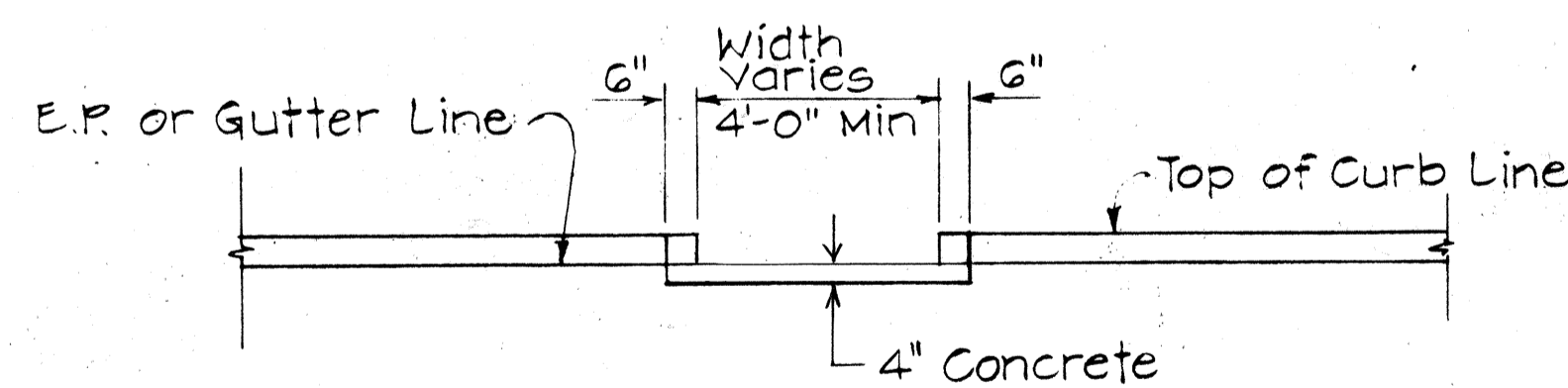
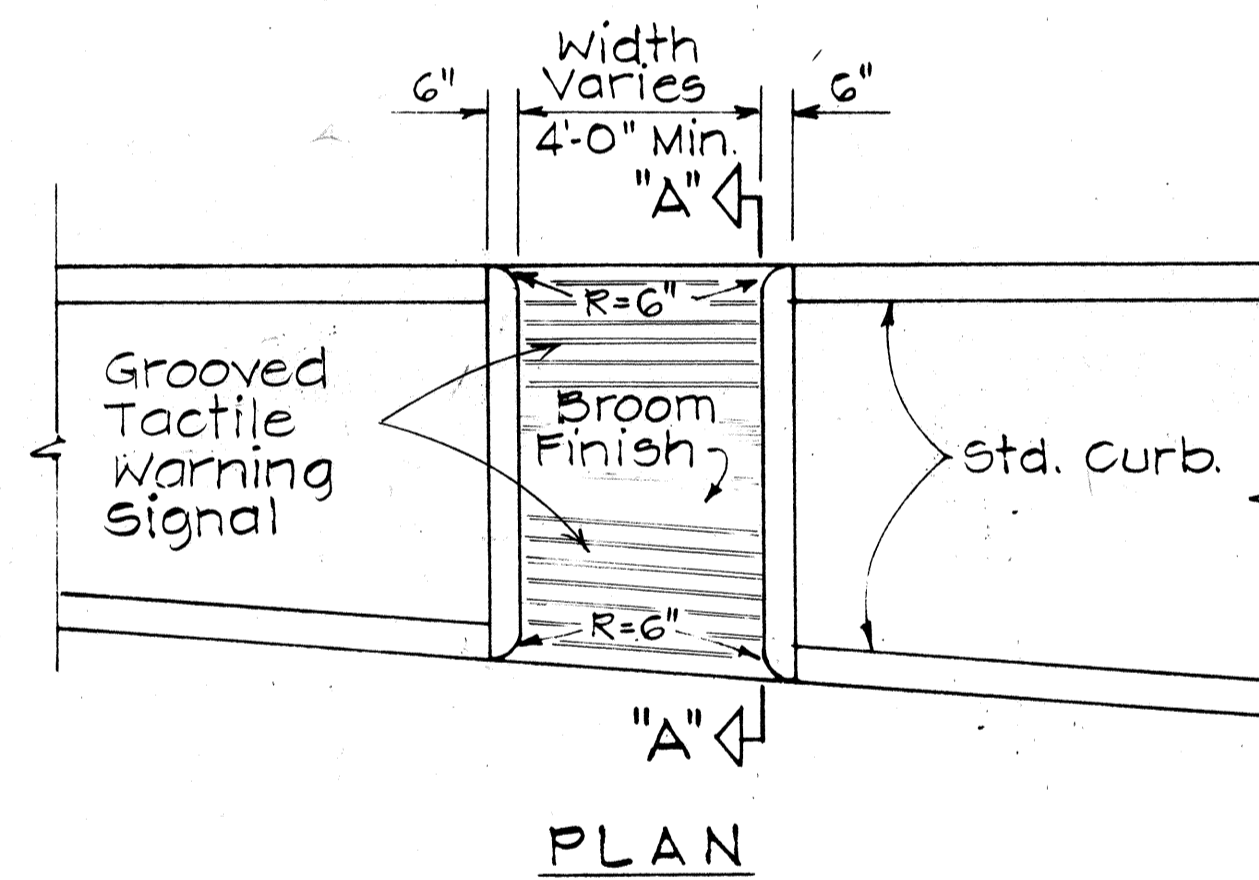
SECTION "A-A"
WHEELCHAIR RAMP - TYPE "A"
USE WHERE OBSTRUCTIONS EXIST



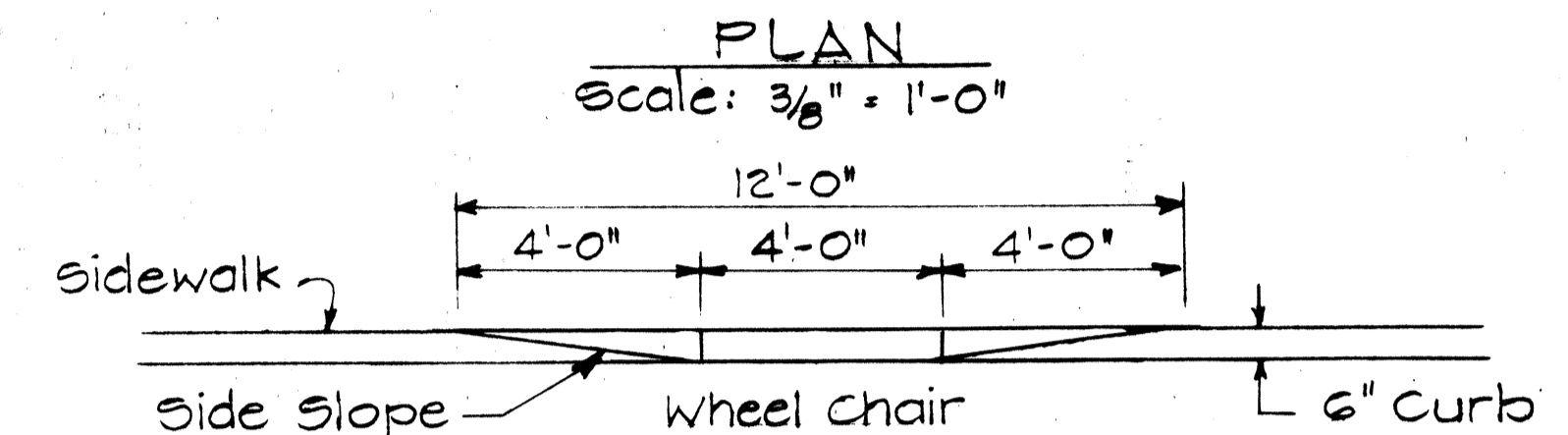
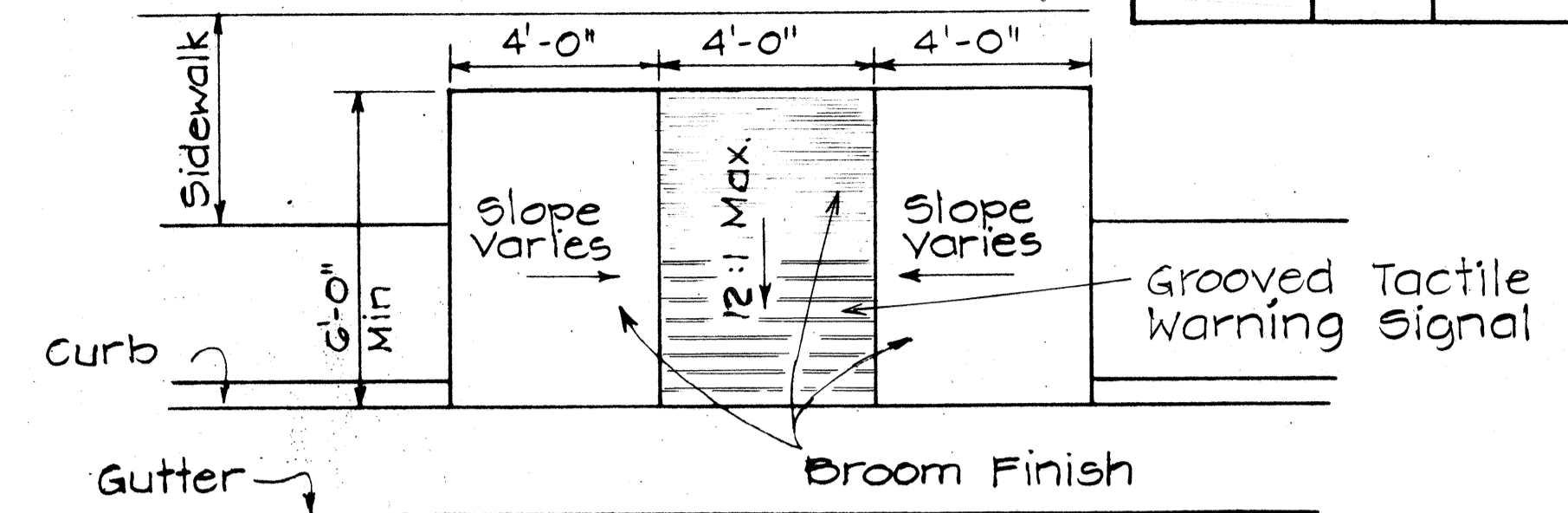
GROOVED TACTILE WARNING SIGNAL



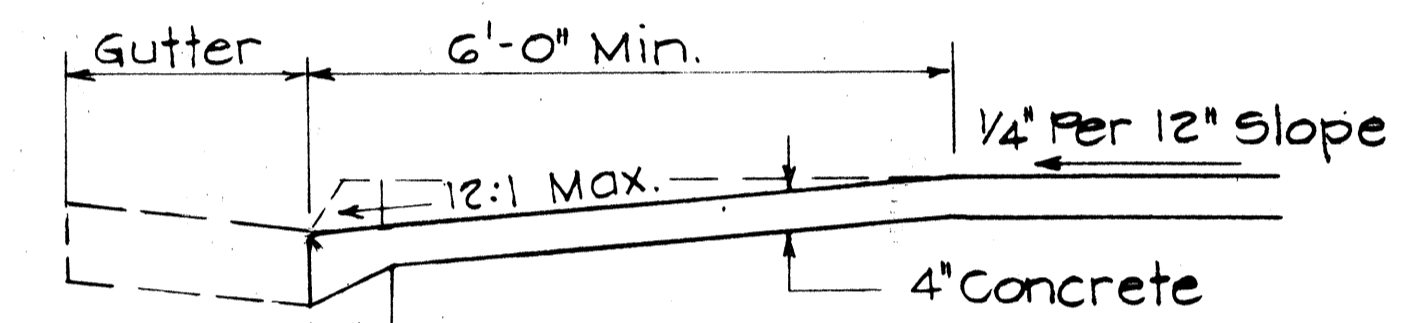
ELEVATION SECTION "A-A"
WHEELCHAIR RAMP - TYPE "B"
USE AT SIDEWALKS WITH LESS THAN 6'-0" WIDTH



SECTION "A-A"
WHEELCHAIR RAMP - TYPE "C"
USE AT MEDIAN CROSSINGS, ISLANDS

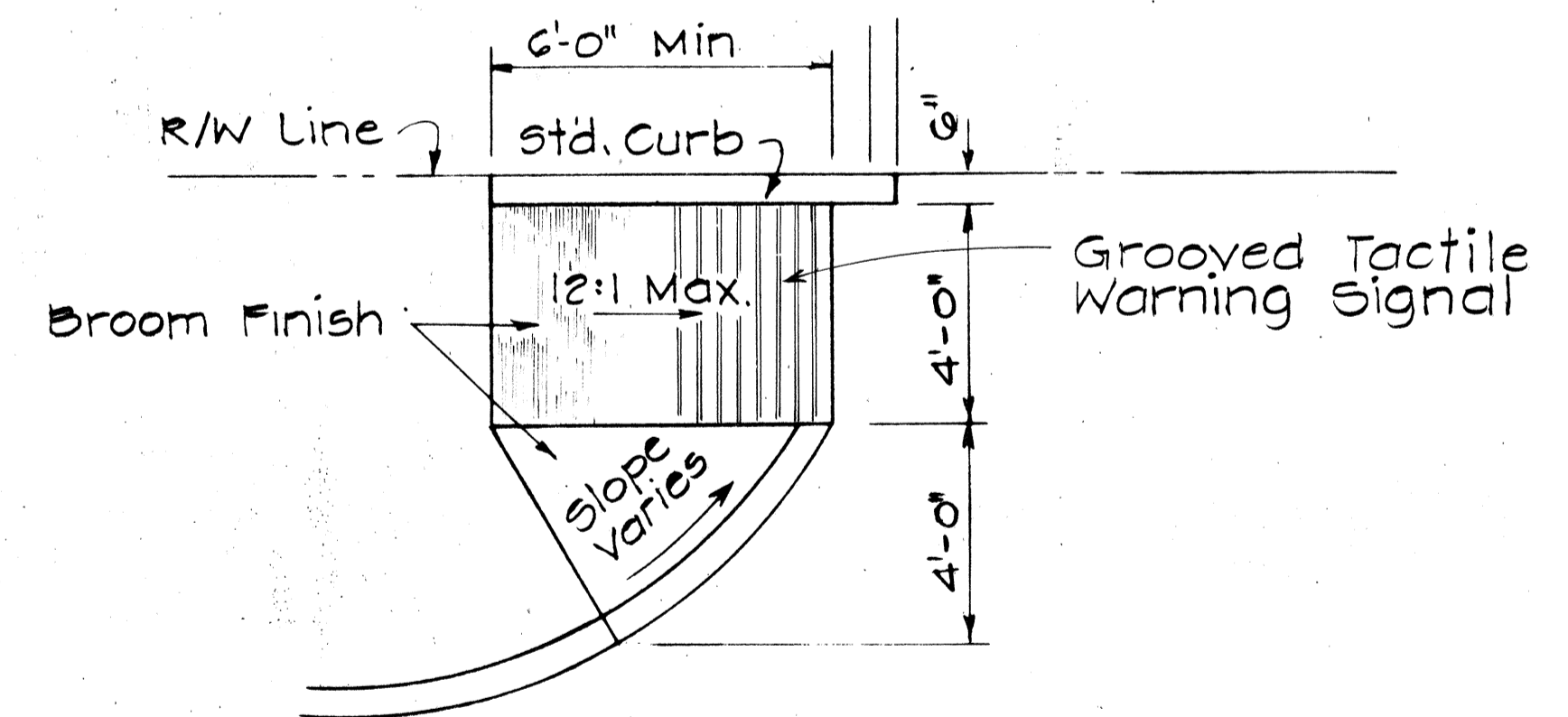


ELEVATION
Scale: 3/8" = 1'-0"



TYPICAL SECTION
Scale: 3/4" = 1'-0"

WHEELCHAIR RAMP - TYPE "D"
USE WHEN IDEAL CONDITIONS EXIST



WHEELCHAIR RAMP - TYPE "E"
USE AT CURBED DRIVEWAYS
Scale: 3/8" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL DETAILS OF WHEEL CHAIR RAMPS
KAMEHAMEHA HWY., WAHIAWA
AVOCADO ST. TO KILANI AVE.
FED. AID PROJECT NO. F-F-080-1(5)
Scale: As Shown

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