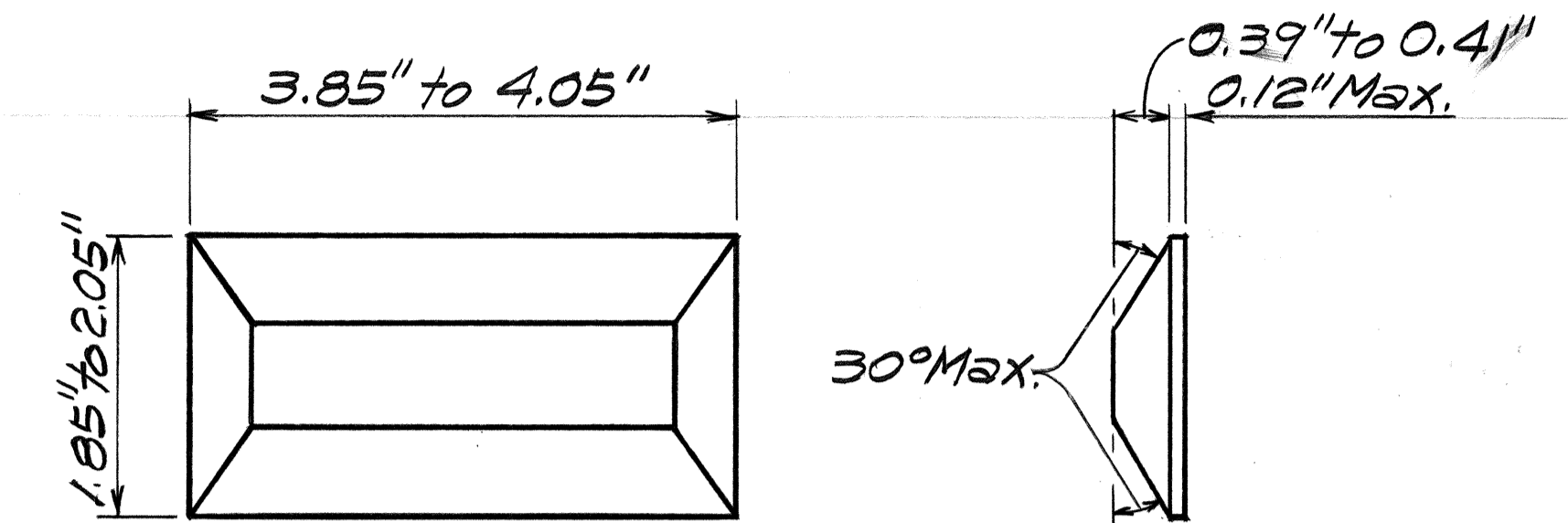


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	29	58

NOTES

- Locations of all new Pavement Markings shall be staked out by the Contractor for approval by the Engineer prior to installation.
- Existing Pavement Markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
- Raised Pavement Markers shall not be placed within crosswalks.
- Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
- Final locations of all signs shall be approved by the Engineer.
- Details of Type C, Type D and Type H Markers on Plan Sht. Nos. 47-49 shall be deleted and replaced with details of Type CL, Type DL and Type HL Markers as shown on this sheet. All references to Type C, Type D and Type H Markers in the plans shall mean Type CL, Type DL and Type HL Markers.



TYPE CL
Red-Clear Reflective Marker
or
TYPE DL
Two-Way Yellow Reflective Marker
or
TYPE HL
One-Way Yellow Reflective Marker
Not to Scale

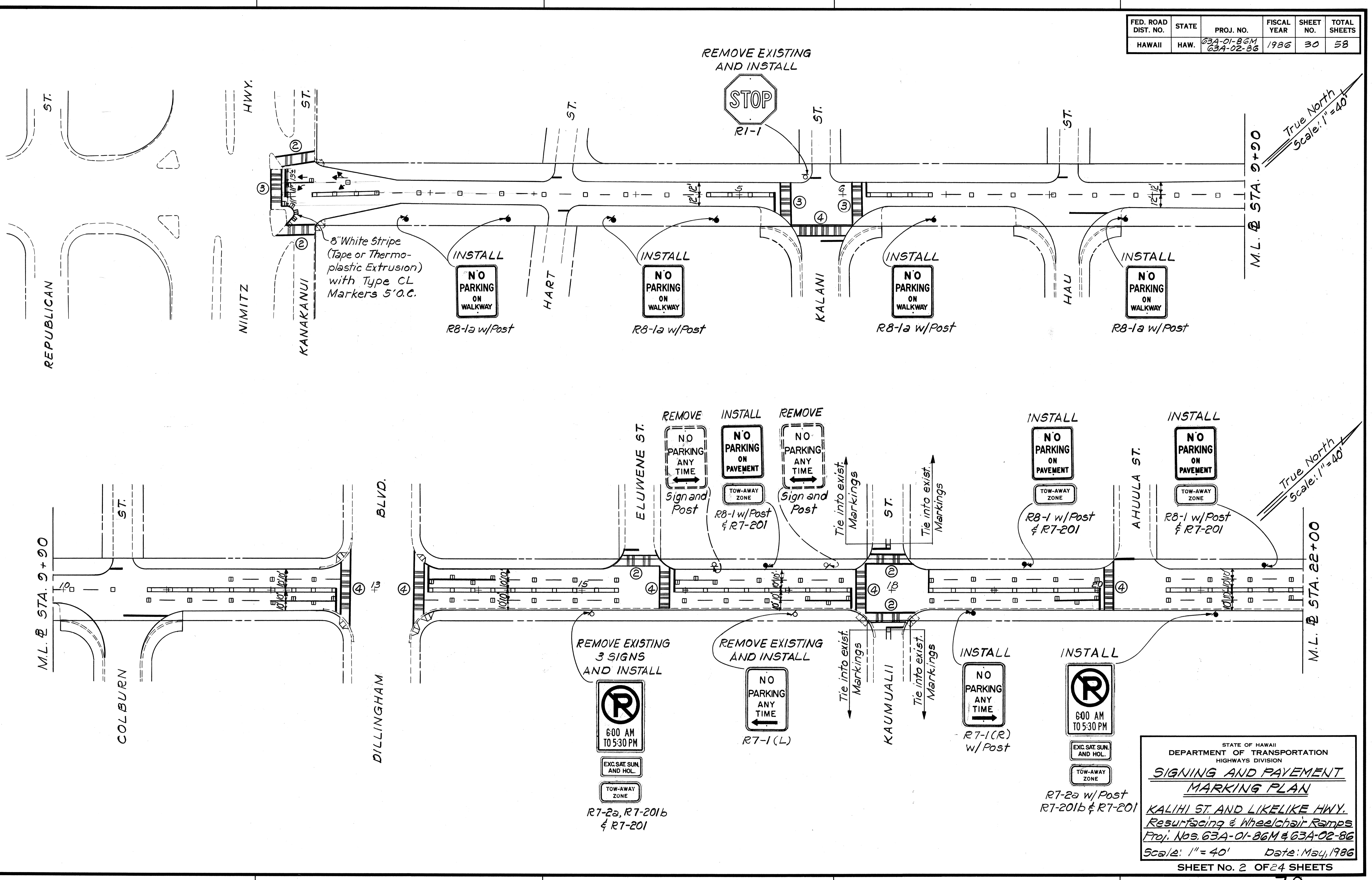
LEGEND

- | | | | |
|--|--|--|---|
| | 4 each Type A Raised Pavement Markers
Type CL Raised Pavement Markers @ 40'-0" o.c. | | Lane Change Restriction Marking (Tape or Thermoplastic Extrusion) |
| | 4 each Type J Raised Pavement Markers
Type DL Raised Pavement Markers @ 40'-0" o.c. | | 4 each Type A Raised Pavement Markers
Type CL Raised Pavement Markers at 20'-0" o.c. |
| | 8" White Stripe (Tape or Thermoplastic Extrusion) with
Type CL Raised Pavement Markers @ 20'-0" o.c. | | 4" White Edge Stripe (Paint) |
| | 4" Double Solid Yellow Stripes (Tape or Thermoplastic Extrusion) with
Type DL Raised Pavement Markers @ 20'-0" o.c. | | 4" White Guide Lines (Tape or Thermoplastic Extrusion).
See Sheet DT 302. |
| | 4" Double Solid Yellow Stripes (Tape or Thermoplastic Extrusion) with
Type HL Raised Pavement Markers @ 20'-0" o.c. | | Transverse Median Marking (Tape or Thermoplastic Extrusion).
See Sheet DT 302. |
| | 4" Yellow Edge Stripe (Paint) with Type HL Raised
Pavement Markers @ 40'-0" o.c. | | Channelizing Island (Tape or Thermoplastic Extrusion).
See Sheet DT 302. |
| | ② Crosswalk and Stop Line (Tape or Thermoplastic Extrusion). All Stop Lines shall be 5'-0" from
Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment. | | Pavement Arrow (Tape or Thermoplastic Extrusion). |
| | 4" Double Solid White Stripes (Tape or Thermoplastic Extrusion) with
Type CL Raised Pavement Markers @ 20'-0" o.c. | | STOP Pavement Word (Tape or Thermoplastic Extrusion) |

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: As Shown Date: May, 1986
SHEET No. 1 OF 24 SHEETS

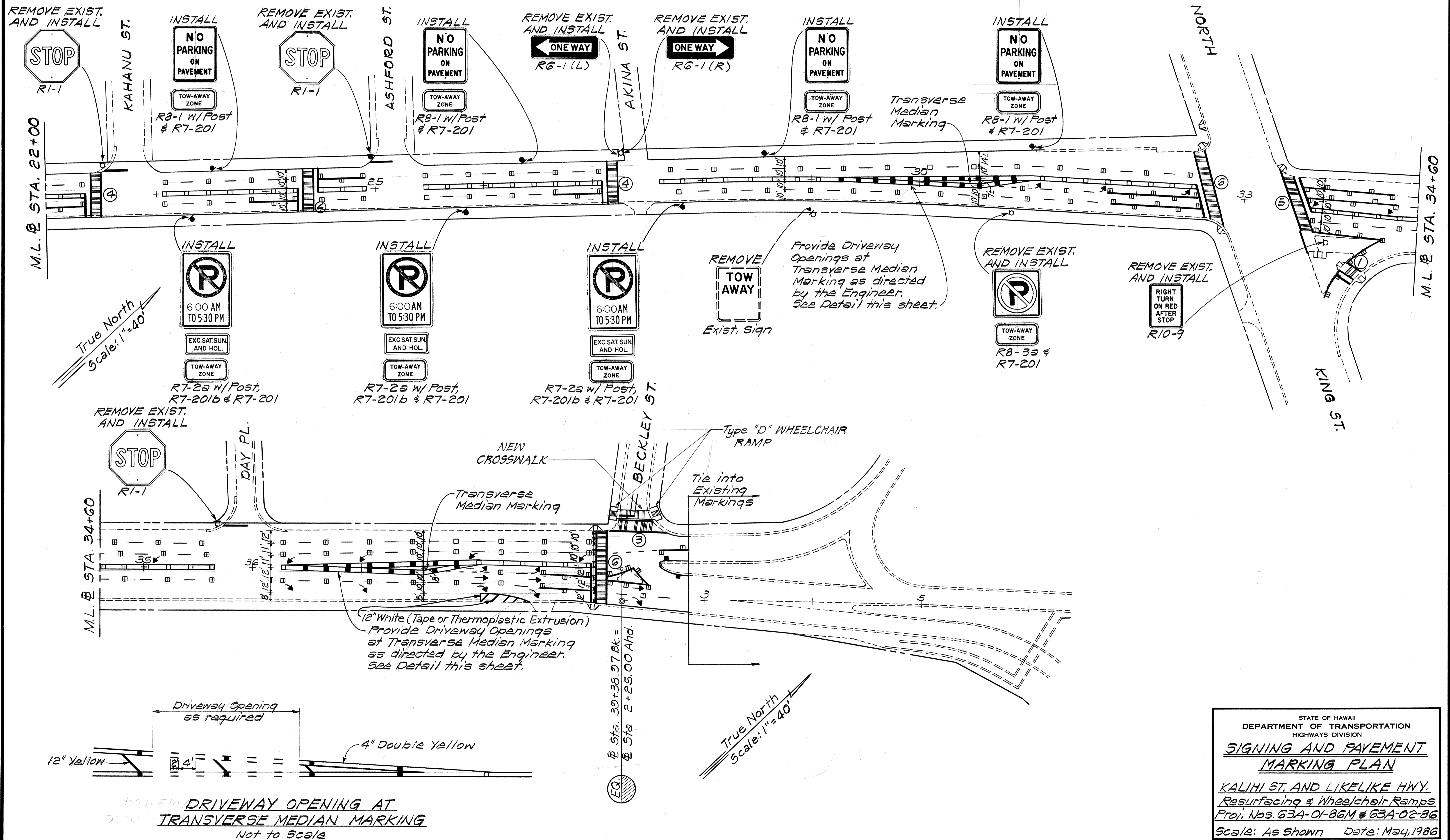
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	30	58



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGNING AND PAYEMENT
MARKING PLAN**
KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1" = 40' Date: May, 1986
SHEET No. 2 OF 24 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	31	58



DATE	____
DESIGNED BY	____
TRACED BY	____
NOTE BOOK	____
QUANTITIES BY	____
CHECKED BY	____

DRIVEWAY OPENING AT TRANSVERSE MEDIAN MARKING
Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: As Shown Date: May, 1986
SHEET No. 3 OF 24 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	32	58

REMOVE EXISTING AND INSTALL

NO PARKING ANY TIME
RT-1

REMOVE EXISTING AND INSTALL

NO PARKING ANY TIME
RT-1

EQ. # Sta. 23+82.38 Bk. =
Sta. 0+00.40 Ahd.

True North
Scale: 1"=40'

Tie into Existing Markings

FERNANDEZ ST.

BERNICE ST.

INSTALL
STOP
RT-1

Tie into Existing Markings

SCHOOL

True North
Scale: 1"=40'

Tie into Existing Markings

EXCEPTION

Tie into Existing Markings

MAKUAHINE ST.

Tie into Existing Markings

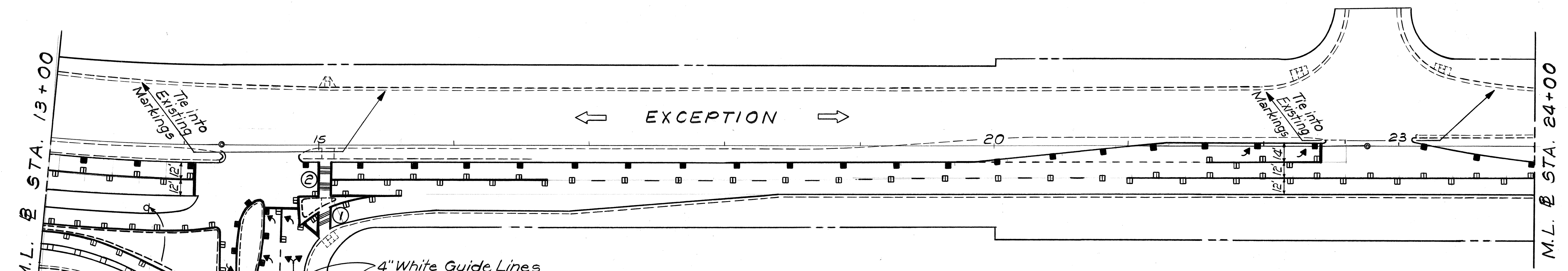
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGNING AND PAVEMENT
MARKING PLAN**
KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1"=40' Date: May, 1986

SHEET NO. 4 OF 24 SHEETS

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

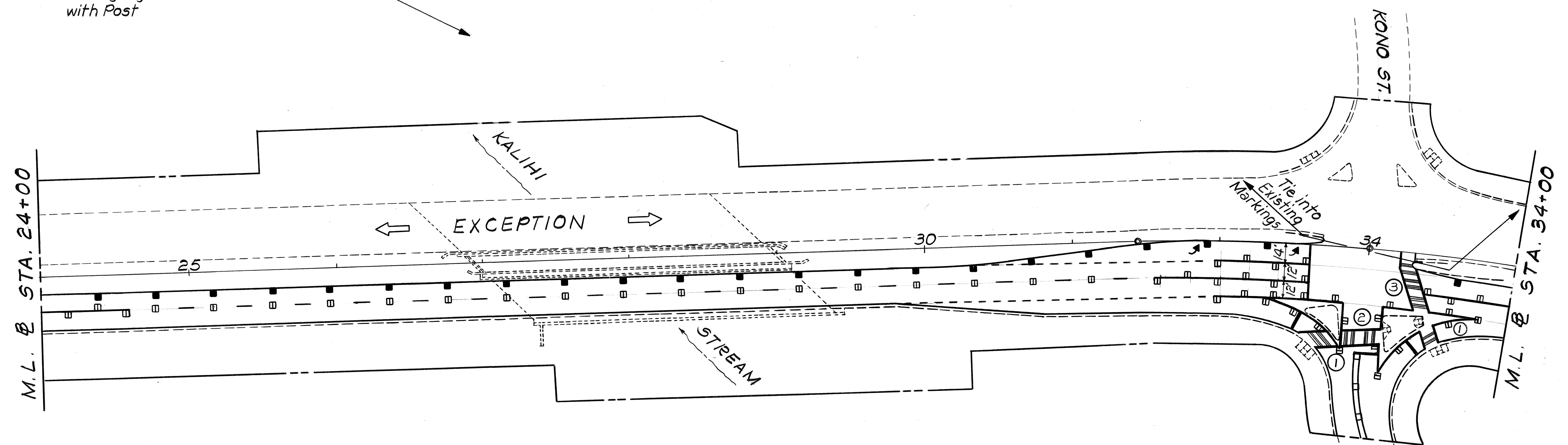
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	33	58

True North
Scale: 1"=40'



REMOVE
SLOW
Existing Sign with Post

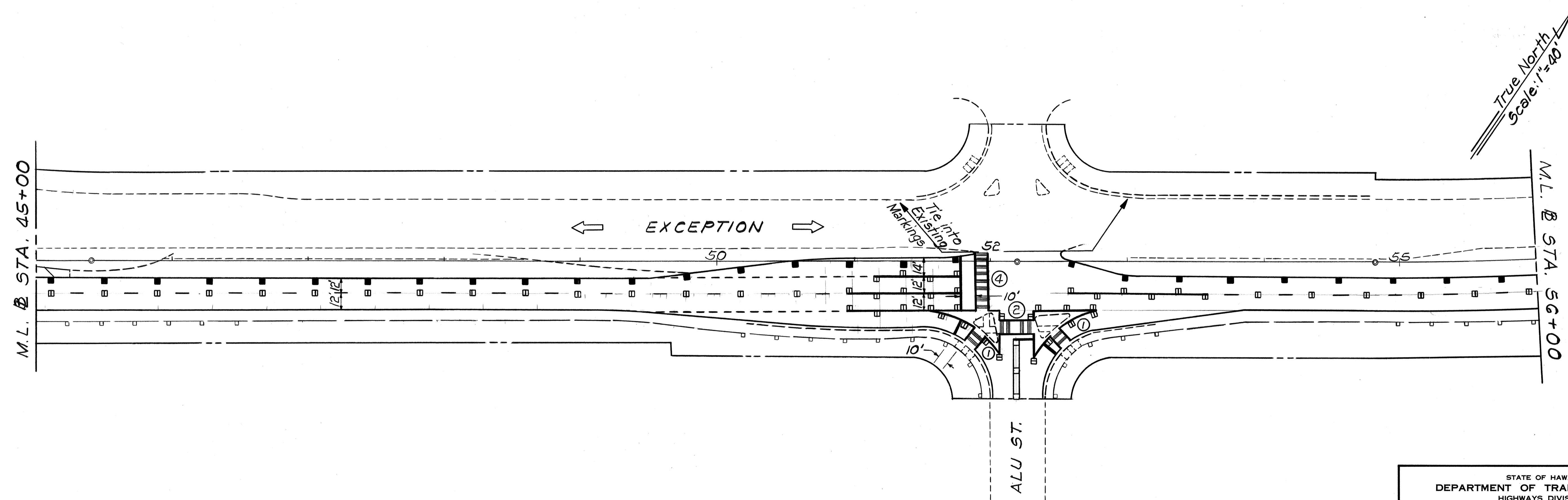
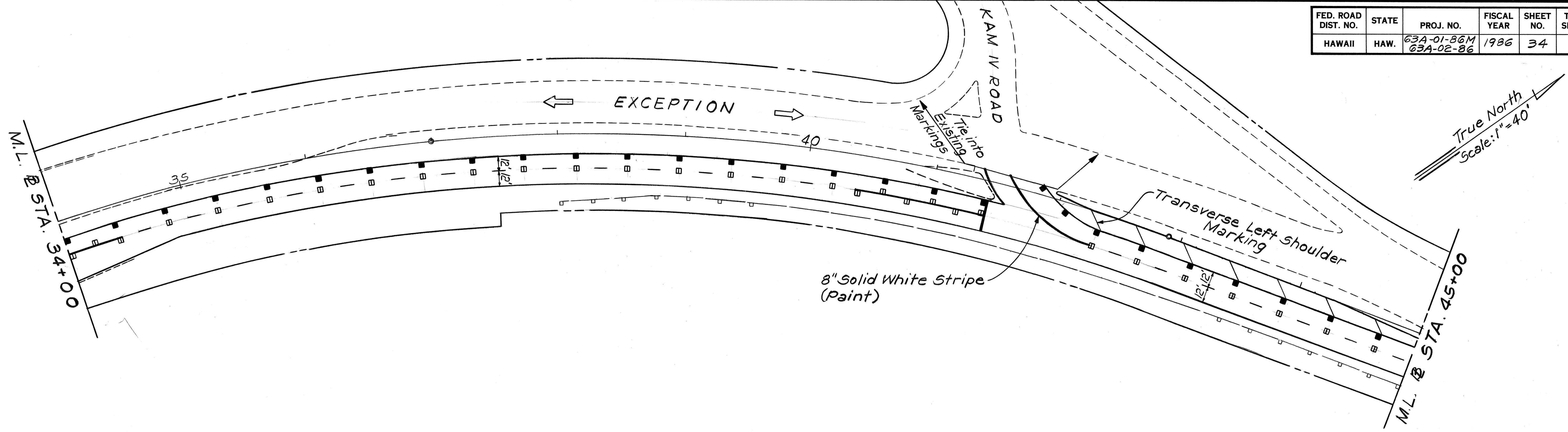
True North
Scale: 1"=40'



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGNING AND PAVEMENT
MARKING PLAN**
KALIHĪ ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1"=40' Date: May, 1986
SHEET No. 5 OF 24 SHEETS

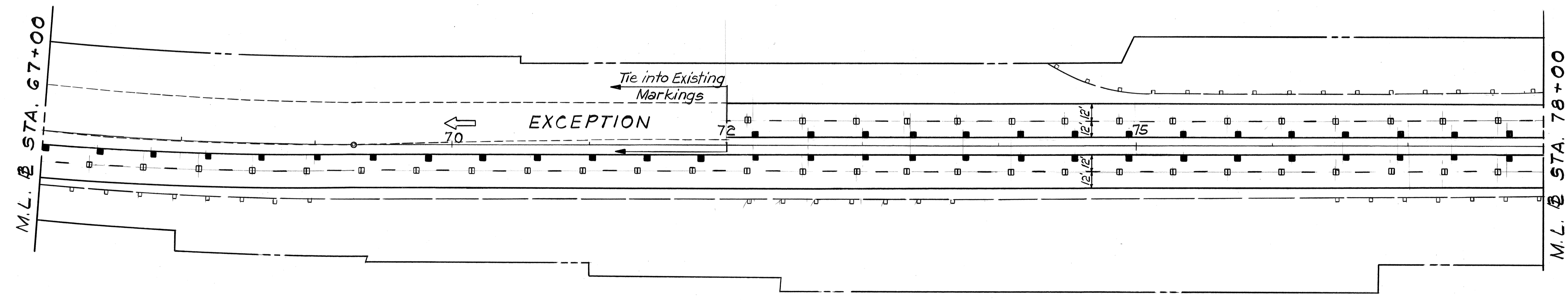
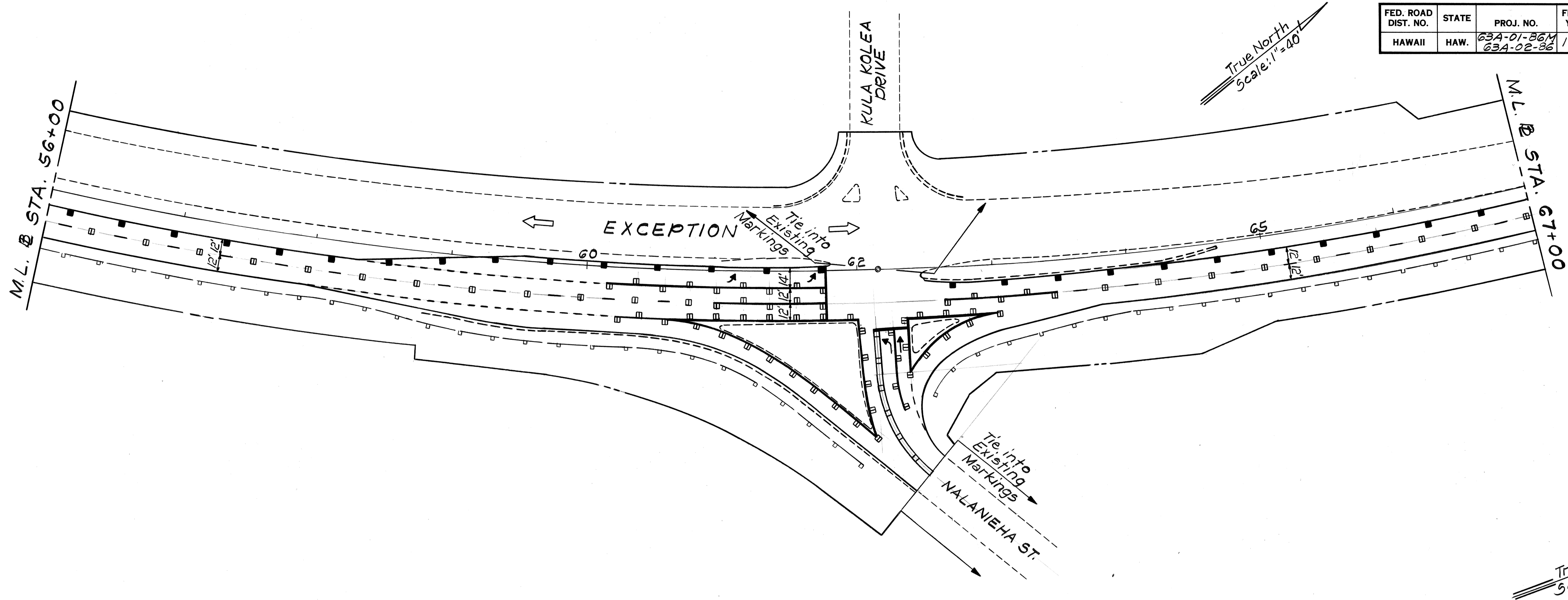
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	34	58



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGNING AND PAVEMENT
MARKING PLAN**
KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1" = 40' Date: May, 1986
SHEET No. 6 OF 24 SHEETS

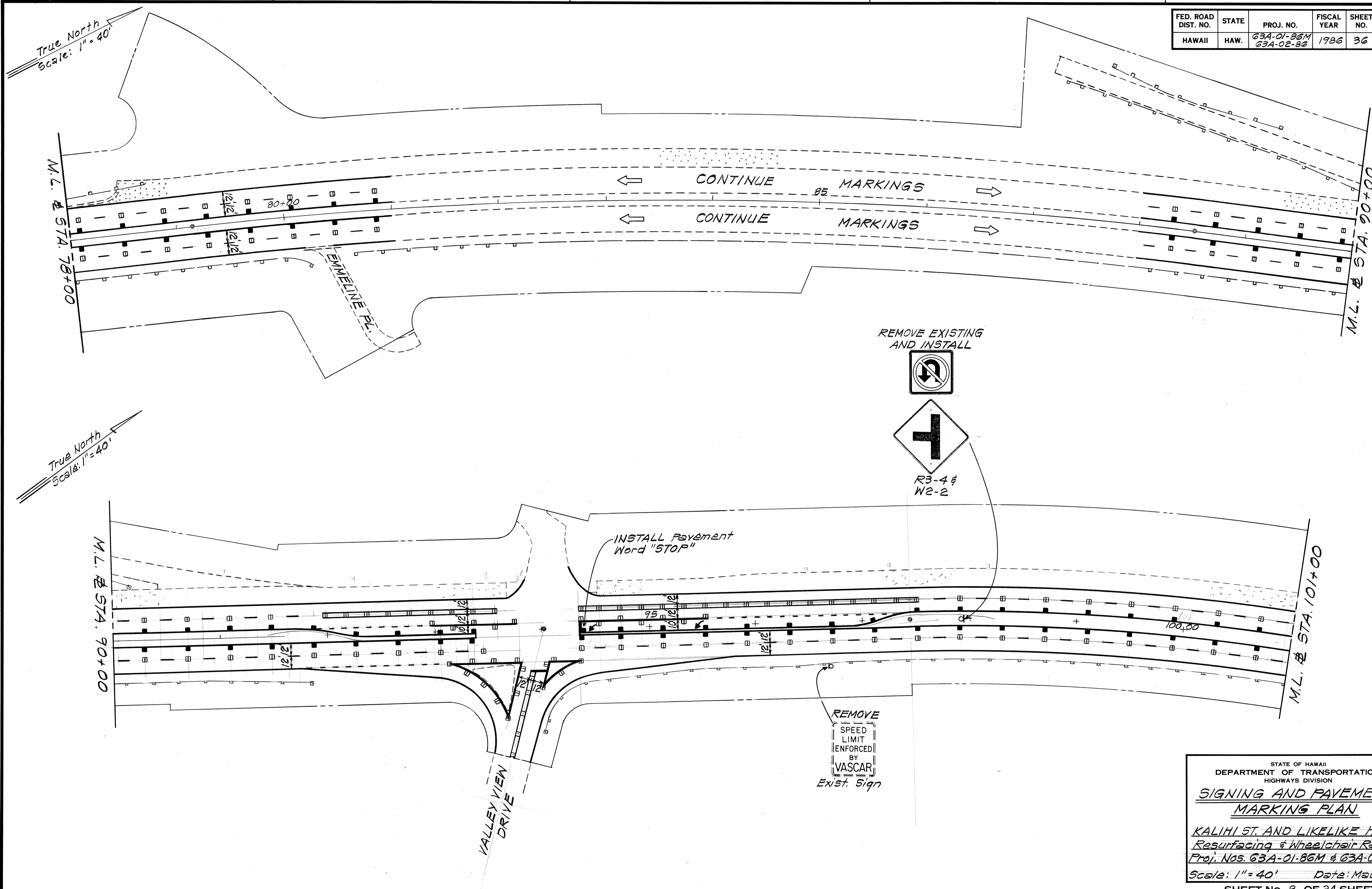
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	35	58



ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT
MARKING PLAN
KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1" = 40' Date: May, 1986
SHEET No. 7 OF 24 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	36	58



REMOVE EXISTING AND INSTALL



R3-4 &
W2-2

INSTALL Pavement Word "STOP"

REMOVE
SPEED
LIMIT
ENFORCED
BY
VASCAR
Exist. Sign

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

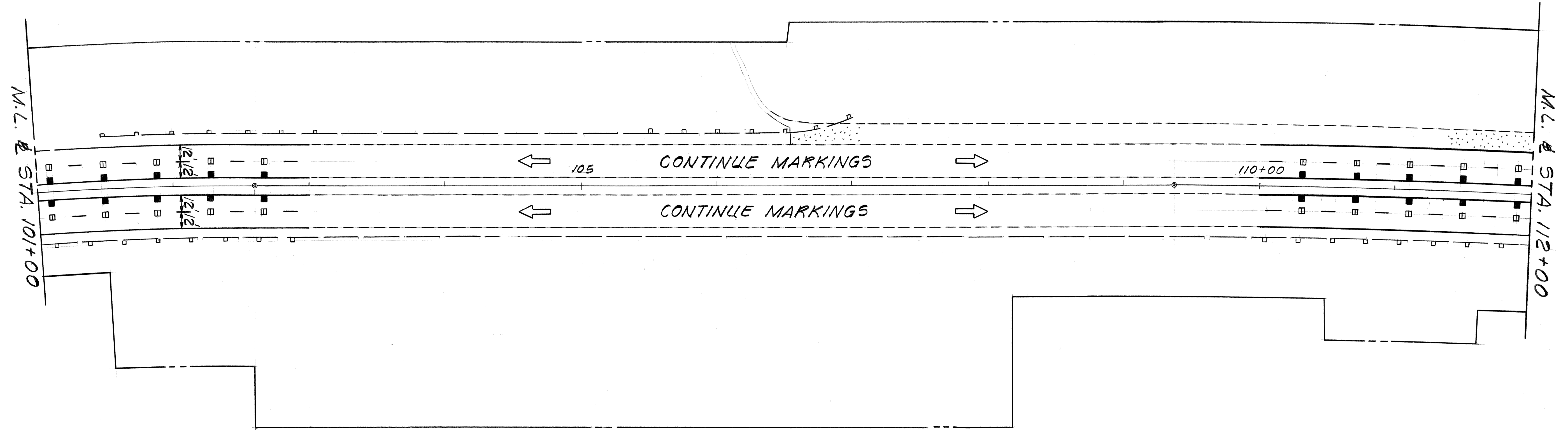
**SIGNING AND PAYEMENT
MARKING PLAN**

KALIHI ST. AND LIKELIKE HNY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1" = 40' Date: May, 1986

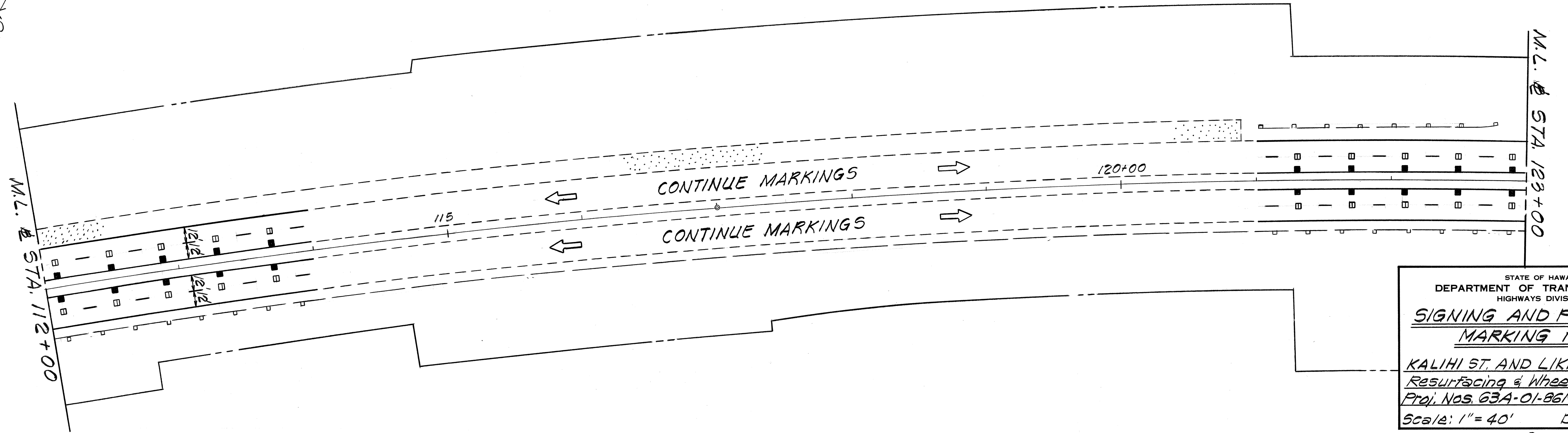
SHEET No. 8 OF 24 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	37	58

True North
Scale: 1" = 40'



True North
Scale: 1" = 40'

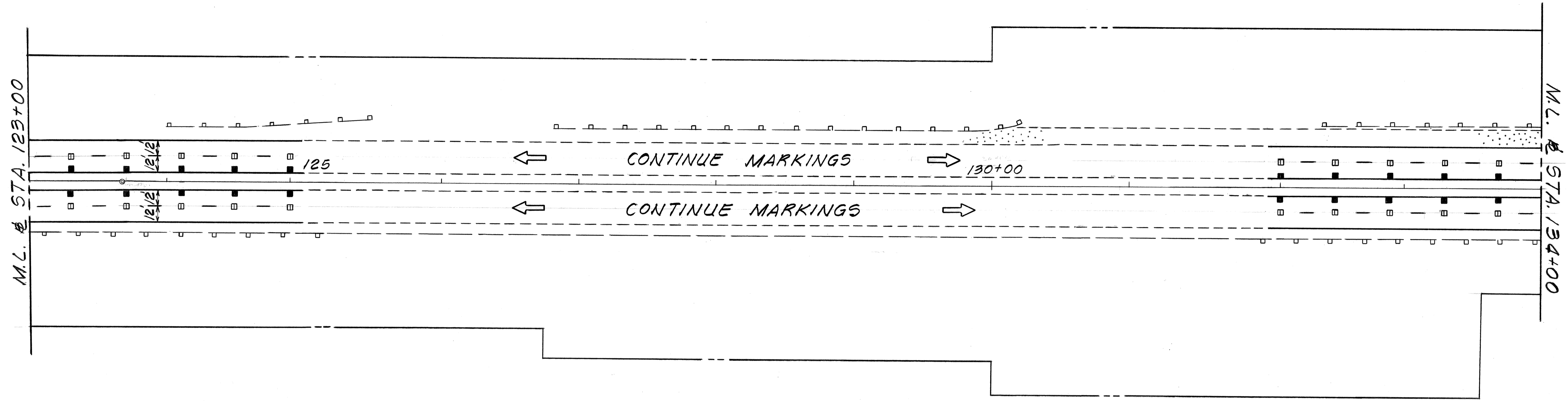


SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
NO.	

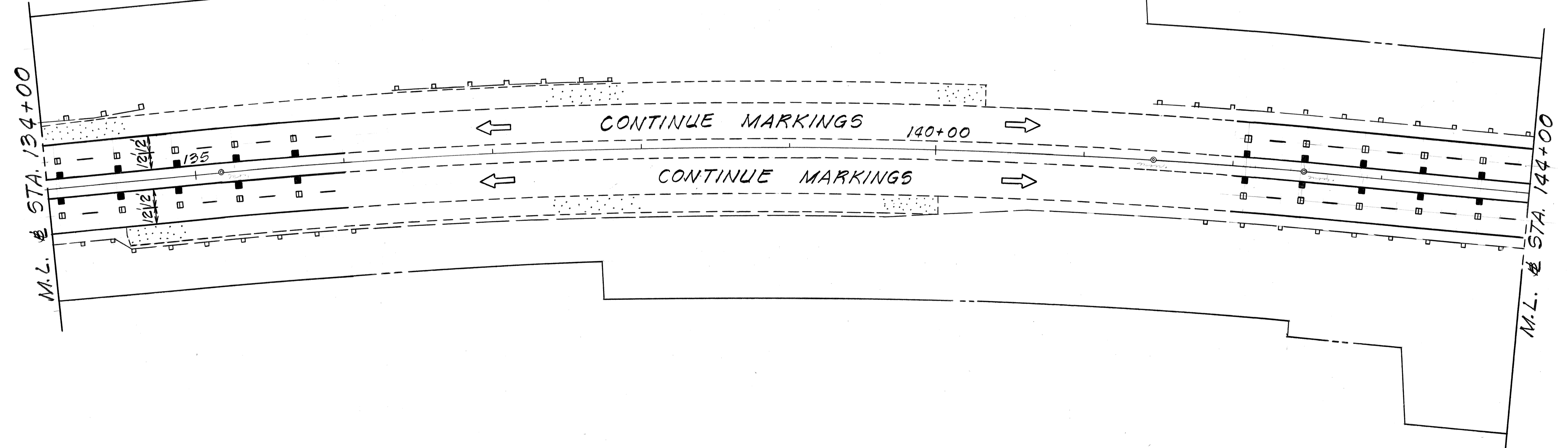
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGNING AND PAVEMENT
MARKING PLAN**
KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1" = 40' Date: May, 1986
SHEET No. 9 OF 24 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	38	58

True North
Scale: 1" = 40'



True North
Scale: 1" = 40'



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

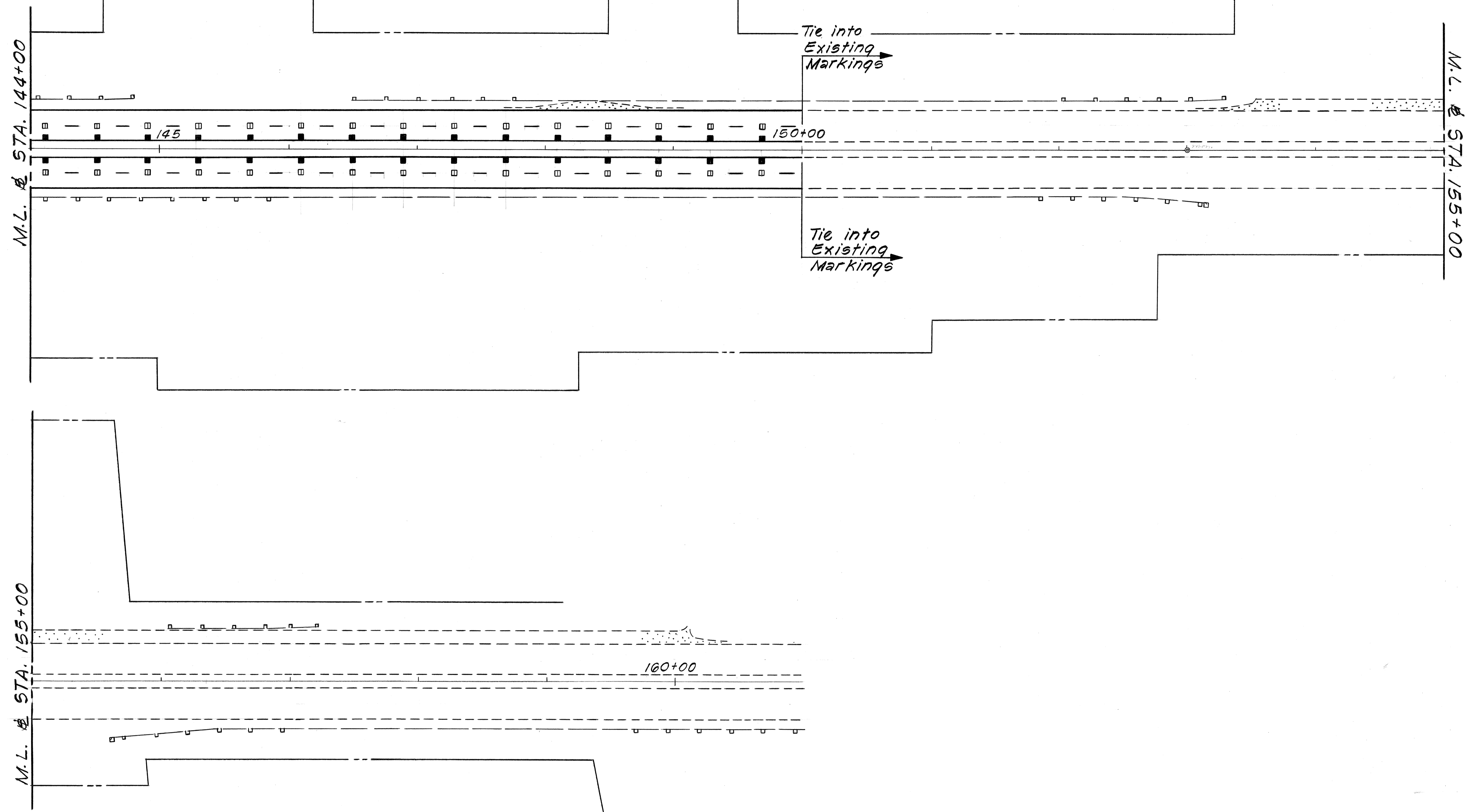
**SIGNING AND PAVEMENT
MARKING PLAN**

KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1" = 40' Date: May, 1986

SHEET No. 10 OF 24 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	39	58

True North
Scale: 1"=40'



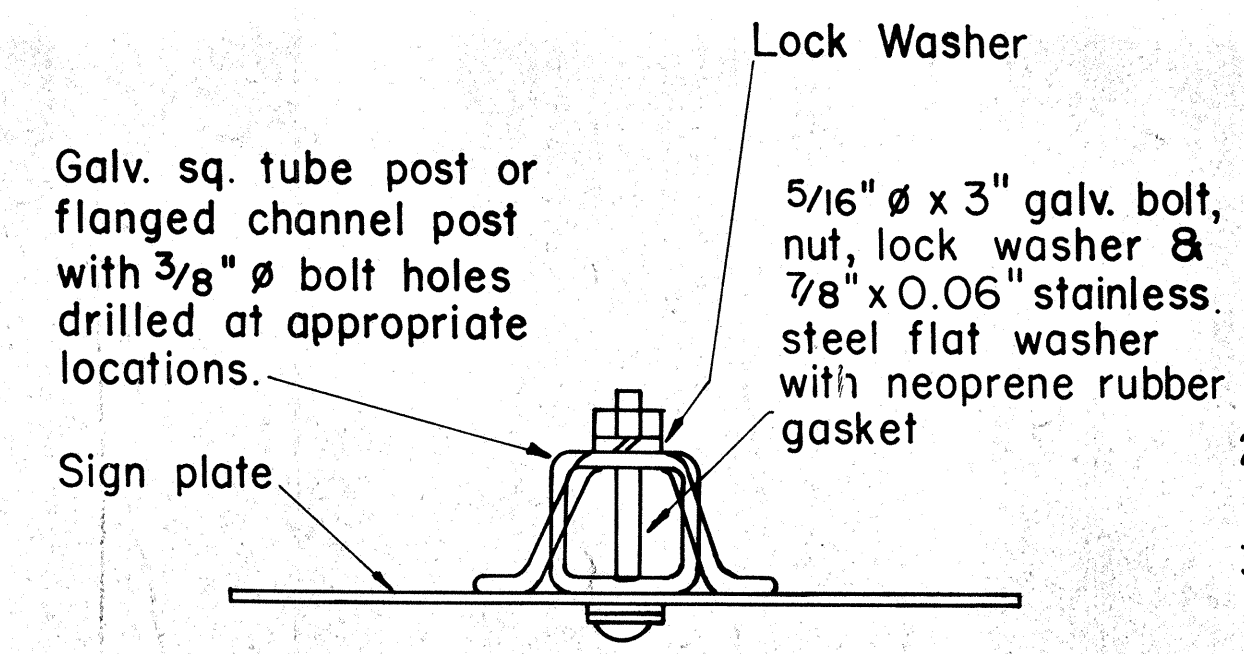
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
KALIHI ST. AND LIKELIKE HWY.
Resurfacing & Wheelchair Ramps
Proj. Nos. 63A-01-86M & 63A-02-86
Scale: 1"=40' Date: May, 1986
SHEET No. 11 OF 24 SHEETS

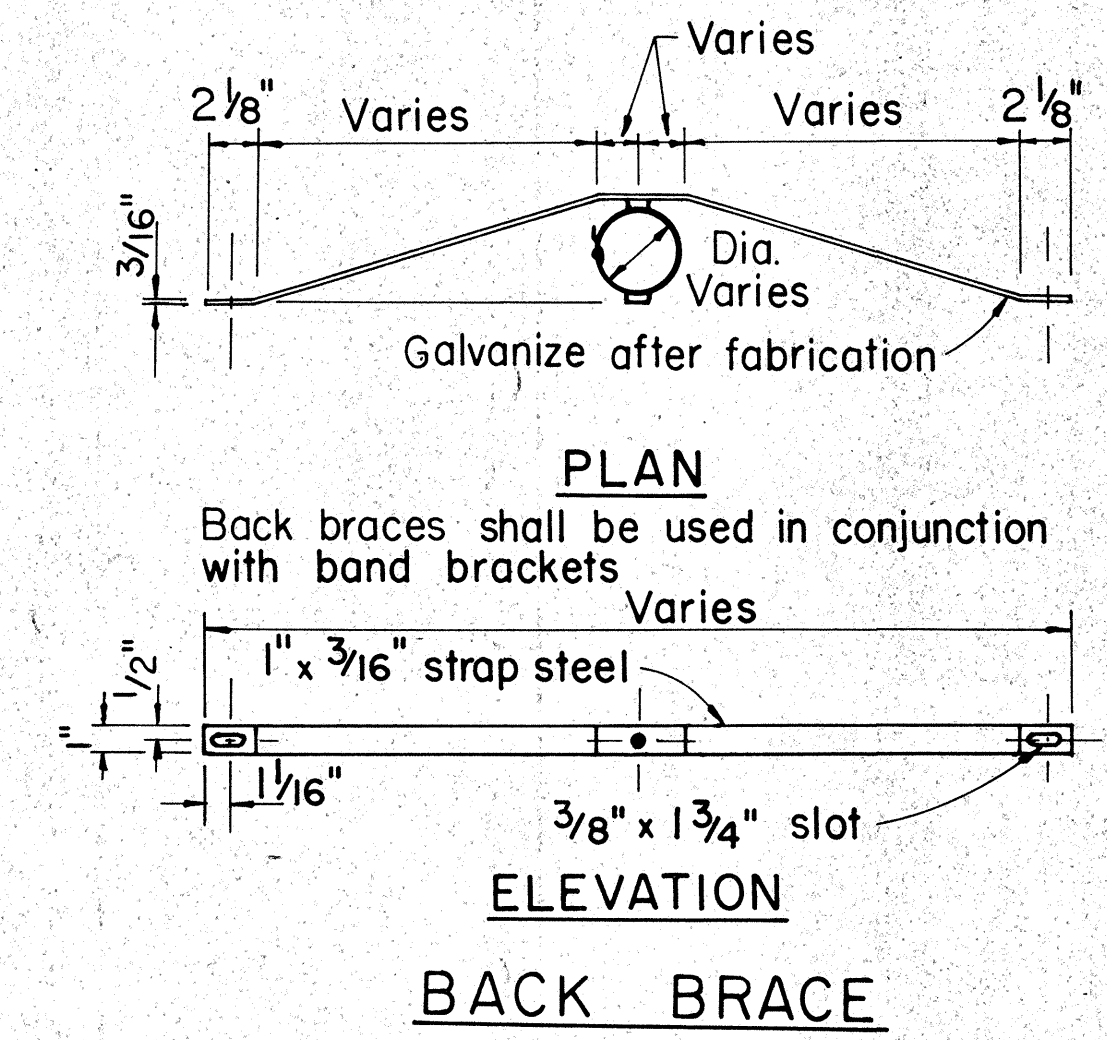
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-8CM 63A-02-8C	1986	40	58

GENERAL NOTES

- Signs shall be placed in conformance with positions shown and described in the "Manual on Uniform Traffic Control Devices for Streets and Highways", 1978, Part II, Section 2A-21, as amended, and as supplemented herein.
- Sign 48" and wider or larger than 10 sq. ft. in area shall be mounted on two or more sign posts except as noted below.
- Signs 48" and wider or larger than 10 sq. ft. in area may be mounted on objects other than sign posts (i.e. on highway lighting poles) as follows:
 - Signs 48" and wider but less than 10 sq. ft. in area shall be mounted with a minimum of two sets of band bracket and back braces.
 - Signs larger than 10 sq. ft. and less than 28 sq. ft. in area shall be mounted with a minimum of two sets of band brackets and back braces.
 - Signs larger than 28 sq. ft. in area shall be mounted with a minimum of three sets of band bracket and back braces.
- All parking restriction signs with arrows shall be mounted 45° to the line of traffic flow.
- Sign posts shall extend 3/2" above each sign, where required, for attachment of City and County street name signs.
- (R) or (L) indicates right or left and shown on the plans.
- * 7. See plans for special details of signs along bikeways.
- ** 8. The minimum lateral distances shown are guidelines and shall be exceeded whenever possible. The Contractor shall place signs at the maximum practical lateral distance from the edge of the traveled way up to 30 feet and shall utilize protected locations whenever possible. Final locations of all signs shall be approved by the Engineer.
- 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 appropriate, signs for opposing directions shall be placed back to back.
- Anchor bases shall be installed for all signpost installations, unless otherwise shown or directed. See sheets DT 100A and DT 100B.

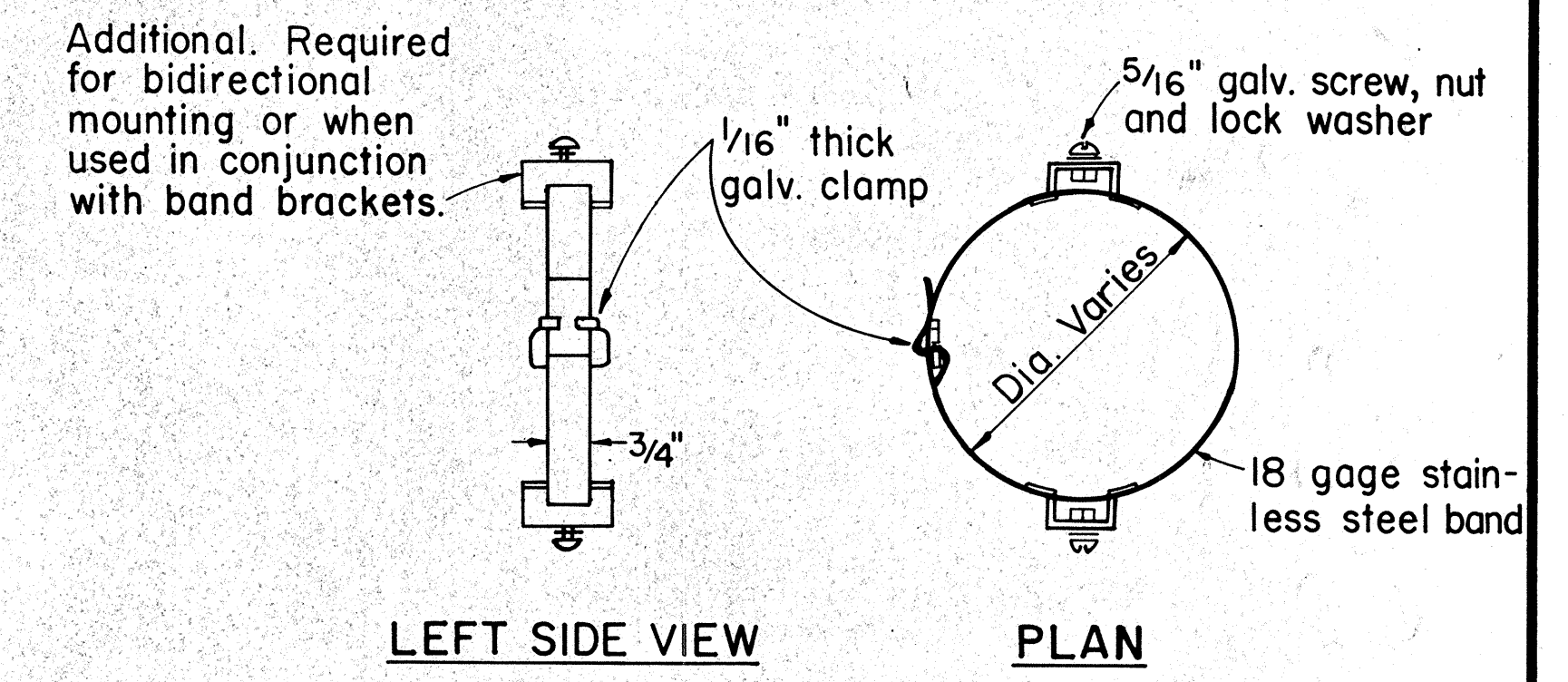


GALVANIZED SQUARE TUBE OR FLANGED CHANNEL POST



TYPICAL MOUNTING DETAILS

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 100 approved 11/15/77	<i>[Signature]</i>	10-18-83



BAND BRACKET

APPROVAL RECOMMENDED:
Eiichi Tanaka 10/14/83
 TRAFFIC ENGINEER DATE

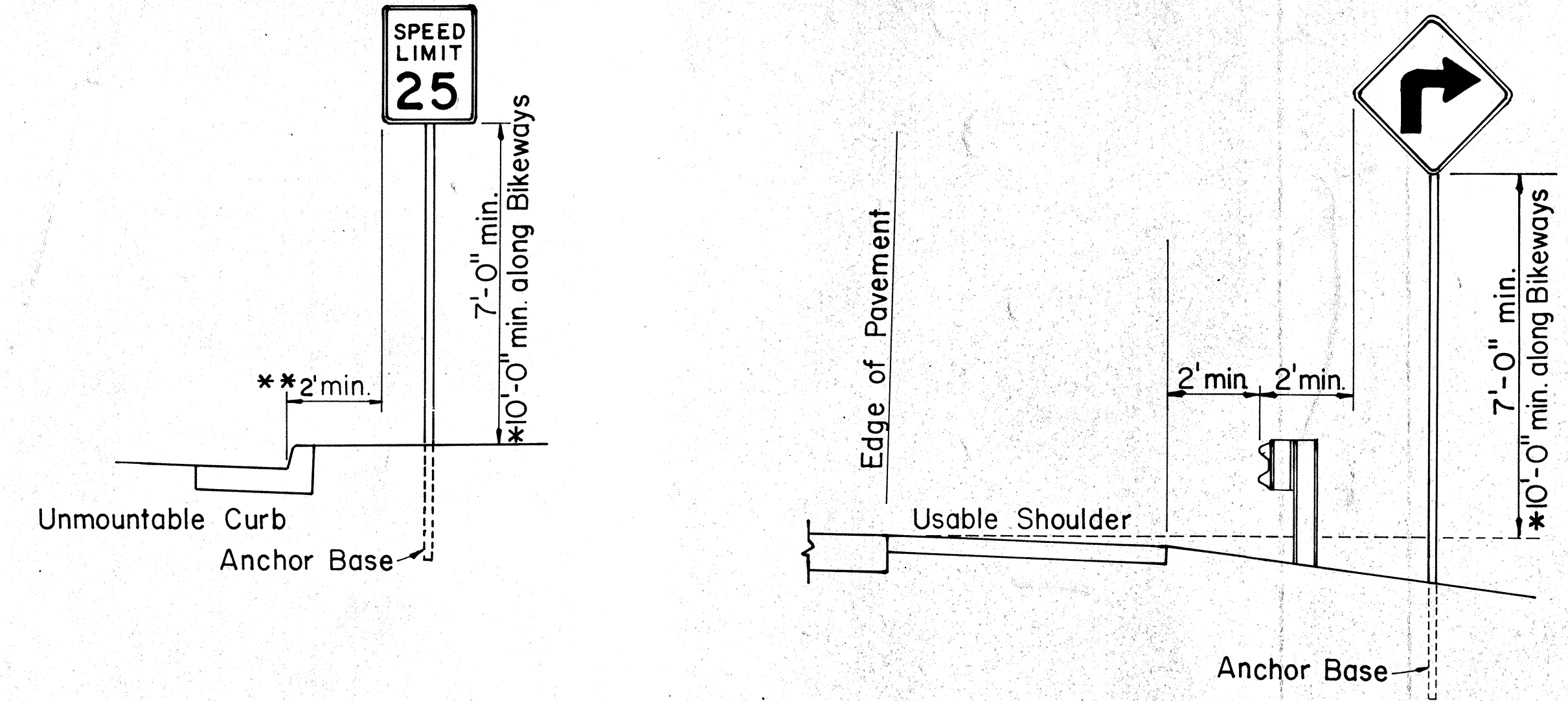
APPROVED:
[Signature] 10-18-83
 ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

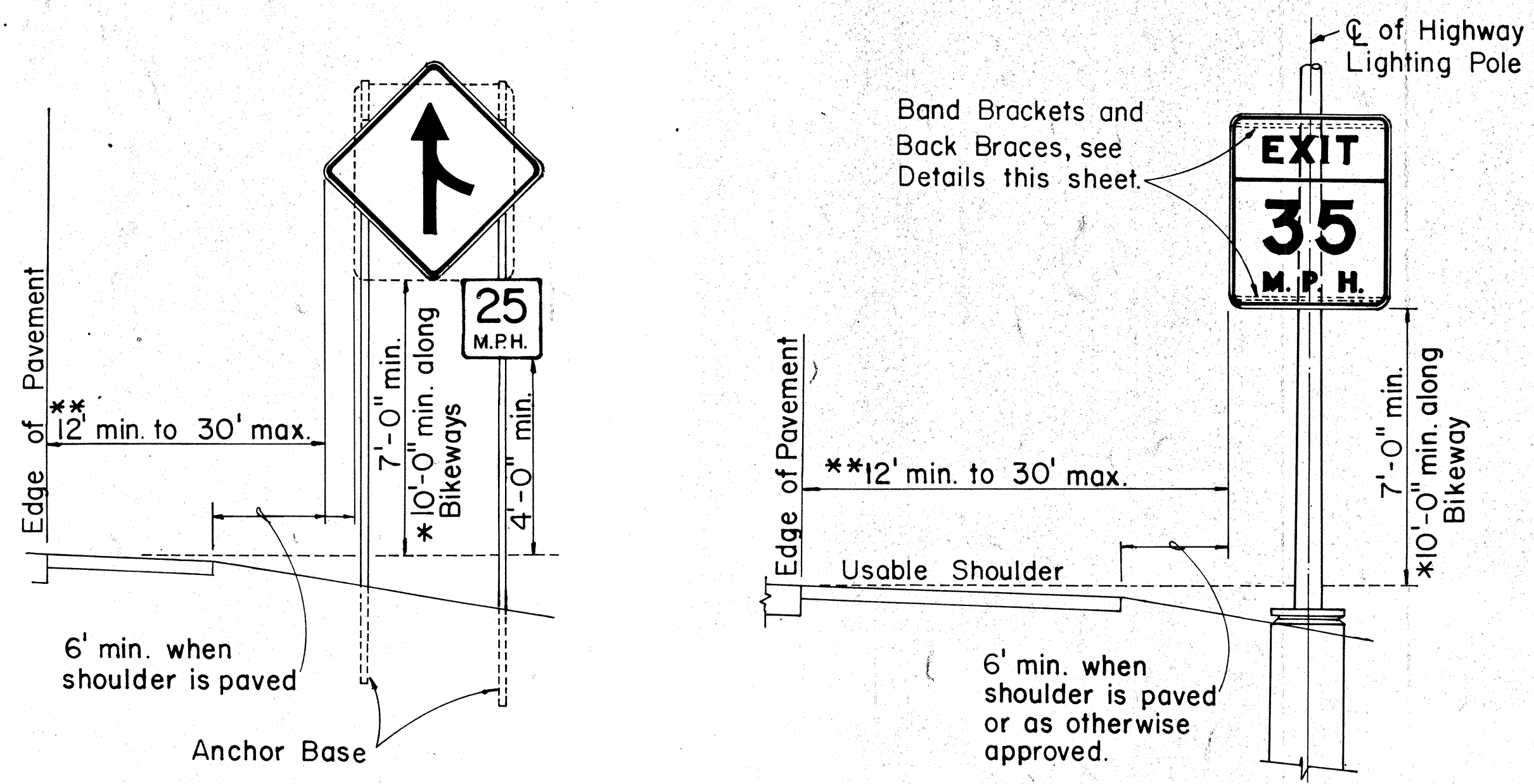
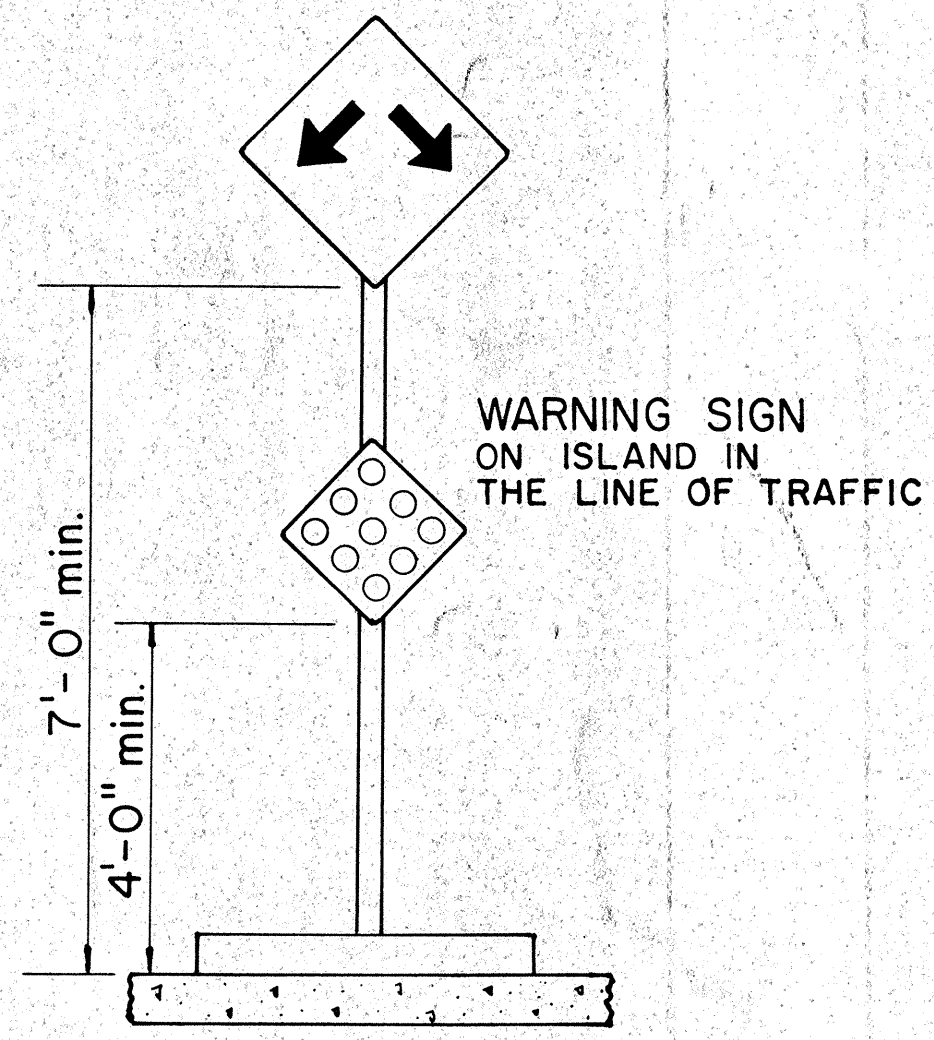
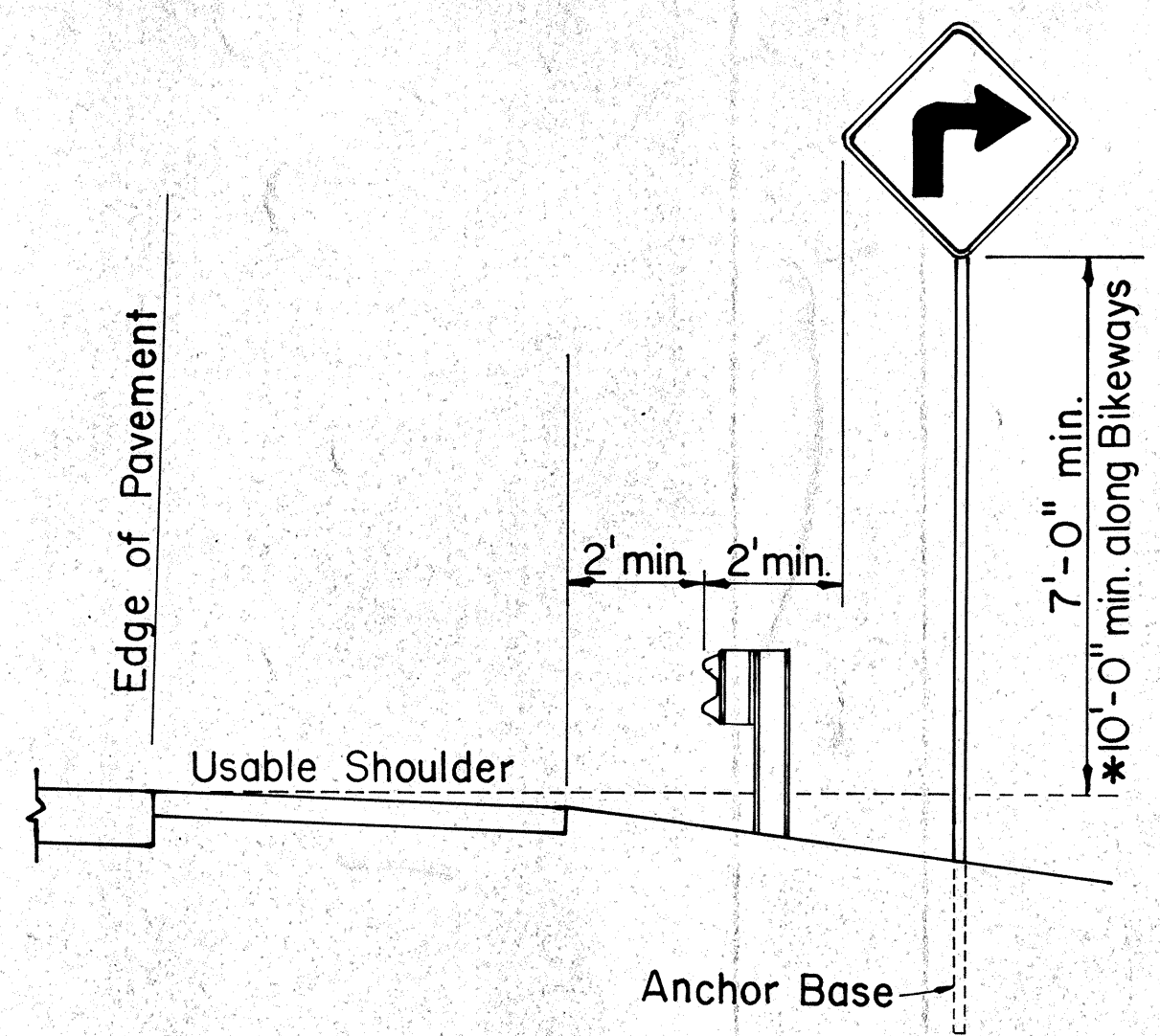
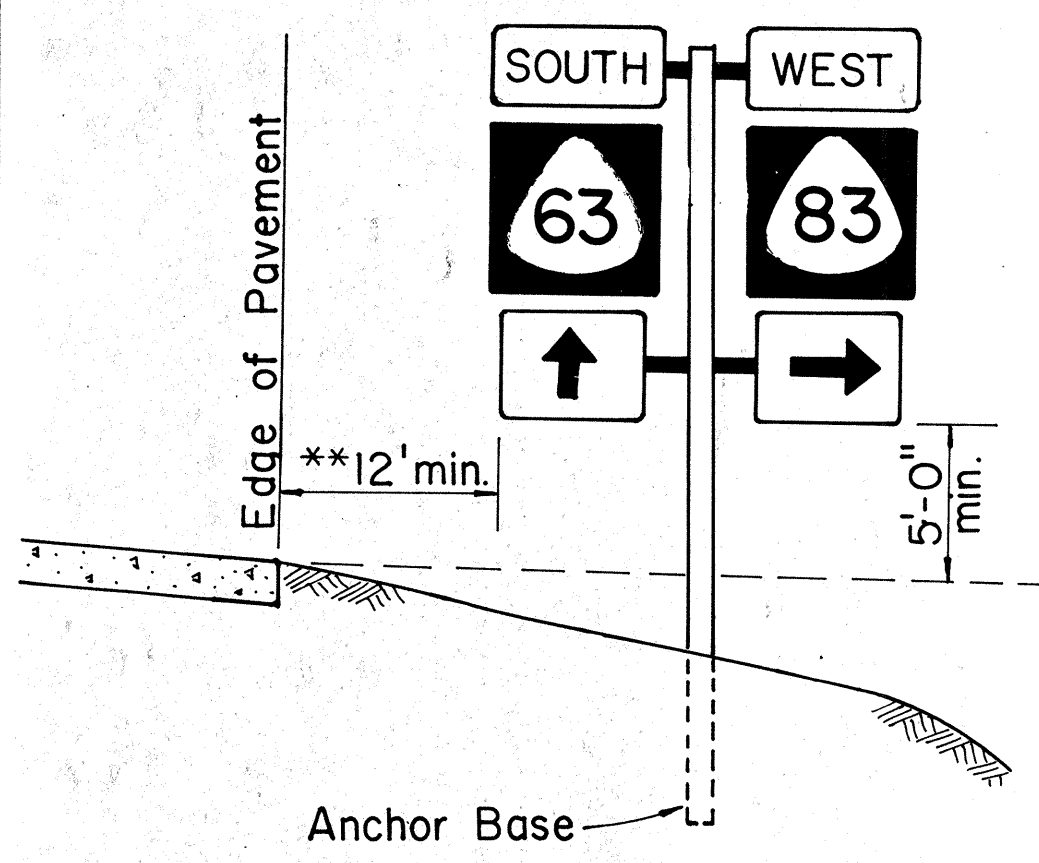
STANDARD DETAILS

MISCELLANEOUS SIGN DETAILS

Not to Scale: Oct. 1983
 SHEET NO. 12 OF 24 SHEETS DT 100



ROADSIDE ASSEMBLY RURAL DISTRICT



HEIGHT AND LATERAL LOCATION OF SIGNS TYPICAL INSTALLATION

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	41	58

A or A ₁	C	C ₁
36"	6"	-
48"	9"	19"
60"	12"	24"

NOTE: Frame stiffeners are required when D is greater than 24". See Gen. Note 4.

GENERAL NOTES

- Sign posts and base posts shall be flanged channel type structural steel conforming to ASTM A 499 and galvanized in accordance with ASTM A 123.
NOMINAL DIMENSIONS:
2.50 lbs./ft. - 3.125" x 1.562"
4.00 lbs./ft. - 3.500" x 1.750"
- Retainer - Spacer Strap shall be AISI 1020 steel and galvanized in accordance with ASTM A 123.
- Retainer and Connector Bolts shall be 5/16 - 18 UNC x 1.75" long hex. head, integral flange conforming to ASTM A 354 Grade BC. Nuts shall be 5/16 - 18 UNC hex. head, integral flange conforming to ASTM A 563 Grade D. All bolts and nuts shall be cadmium plated per Federal spec. QQP 416 B, Class 2, Type 2.
- All accessories, fittings and stiffener details (as required) shall be submitted to Engineer for approval 20 days prior to installation.
- For additional details see sht. DT 100.
- Basic formulas for use with the windload charts:
Factor = A x B x H
Therefore, if sign area (A x B) is known,
Maximum H = $\frac{\text{Factor}}{\text{sign area (A x B)}}$
and if H is known,
Maximum sign area (A x B) = $\frac{\text{Factor}}{H}$

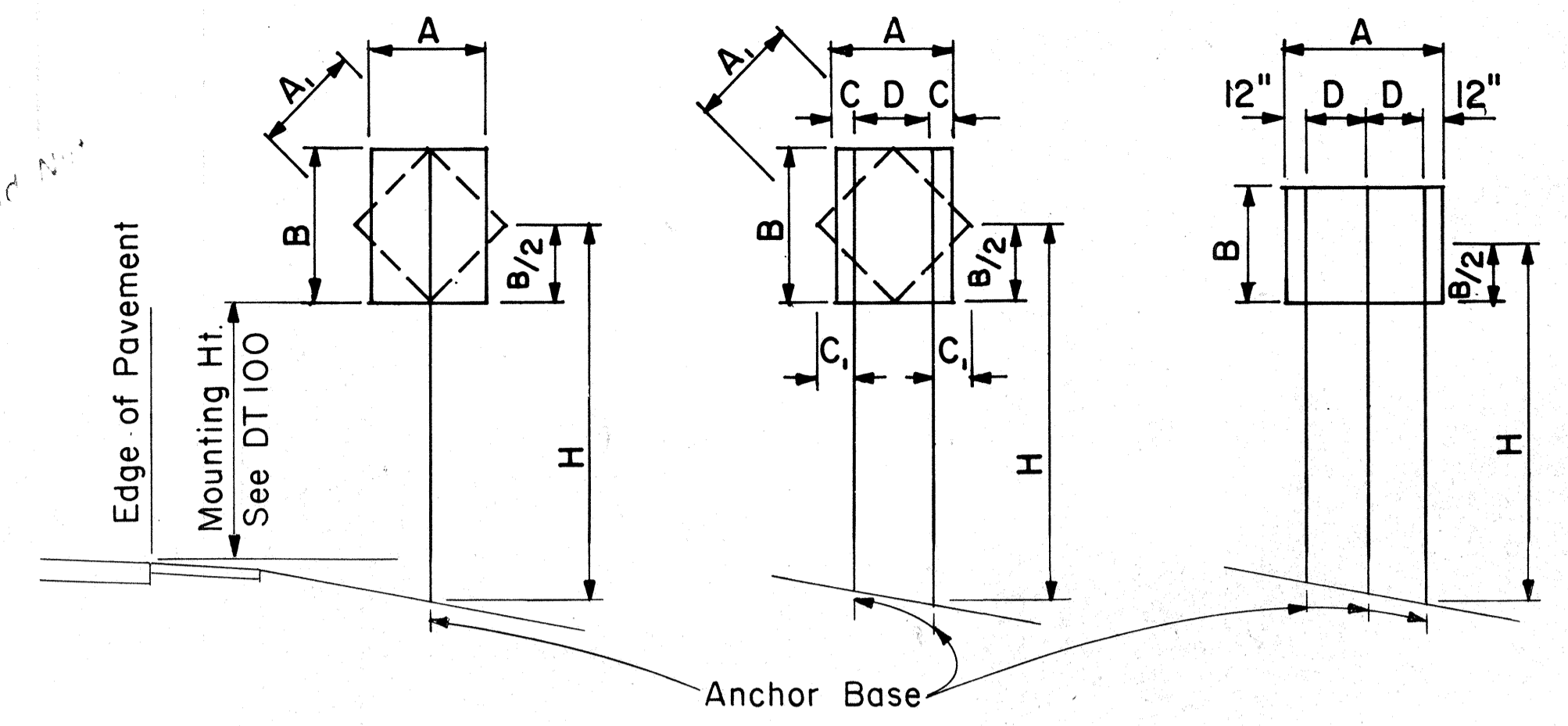
APPROVAL RECOMMENDED:
Eichi Tanaka 9/21/82
TRAFFIC ENGINEER DATE

APPROVED:
Richard J. ... 9/22/82
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
GALVANIZED FLANGED CHANNEL
SIGN POST MOUNTING

Scale: As Shown Date: Sept. 1982
SHEET No. 13 OF 24 SHEETS DT 100A



1-POST Sign area 10 sq.ft. and less
2-POST Sign area greater than 10 sq.ft. or A = 48" - 60"
3-POST A = greater than 60"

TYPICAL INSTALLATION

Not to Scale

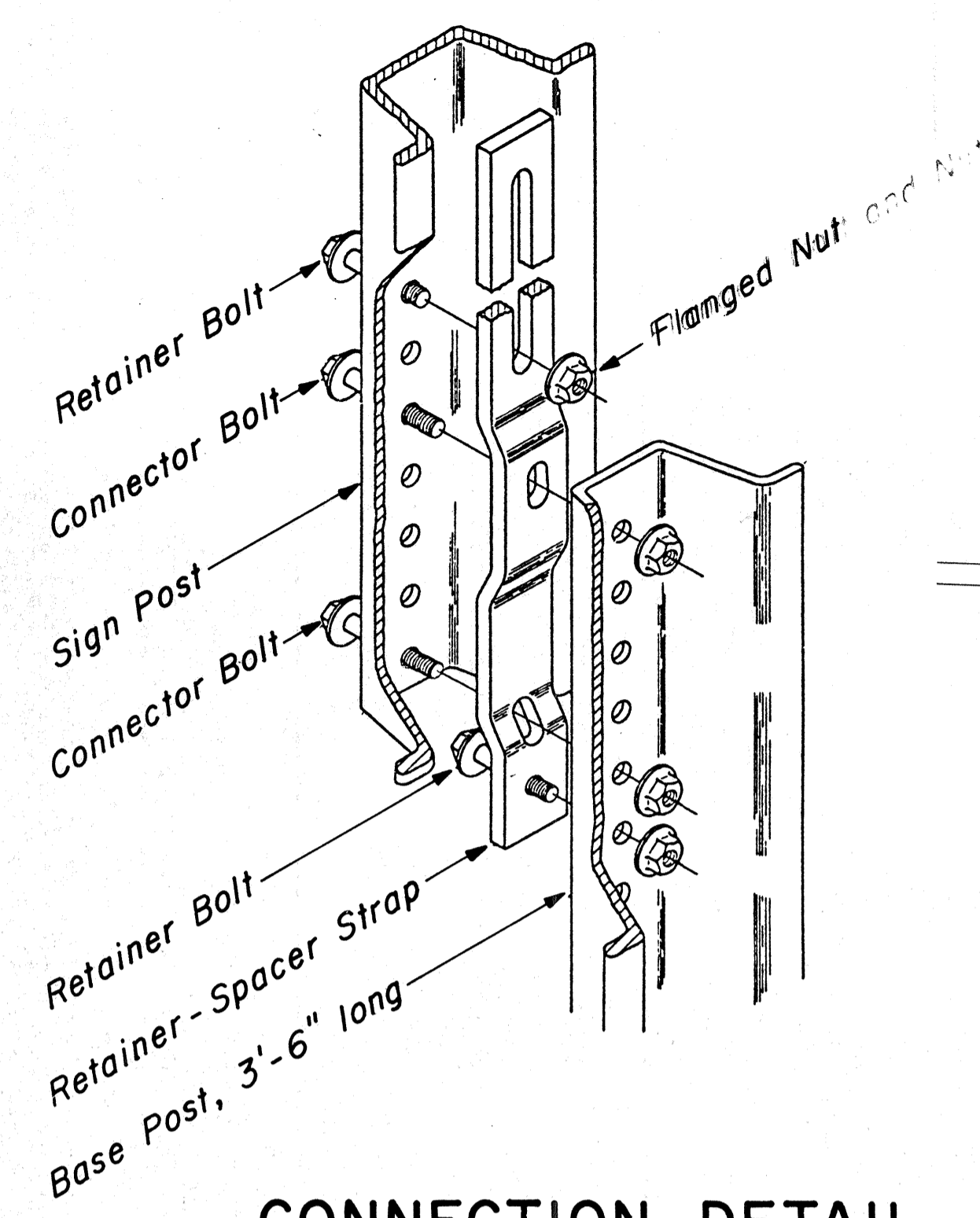
FLANGED CHANNEL: 1-POST INSTALLATION								
Post Size	A x B x H (Factor)	H = Ground Level to Midpoint (ft.)						A x B (Area, sq.ft.)
		7	8	9	10	11	12	
2.50 lbs./ft.	57	8.14	7.13	6.33	5.70	5.18	4.75	
4.00 lbs./ft.	112	-	-	-	-	-	9.33	

FLANGED CHANNEL: 2-POST INSTALLATION								
Post Size	A x B x H (Factor)	H = Ground Level to Midpoint (ft.)						A x B (Area, sq.ft.)
		7	8	9	10	11	12	
2.50 lbs./ft.	124	17.71	15.50	13.77	12.40	11.27	10.33	
4.00 lbs./ft.	241	34.43	30.13	26.78	24.10	21.91	20.08	

FLANGED CHANNEL: 3-POST INSTALLATION								
Post Size	A x B x H (Factor)	H = Ground Level to Midpoint (ft.)						A x B (Area, sq.ft.)
		7	8	9	10	11	12	
2.50 lbs./ft.	187	26.71	23.38	20.78	18.70	17.00	15.58	
4.00 lbs./ft.	362	51.71	45.25	40.22	36.20	32.91	30.17	

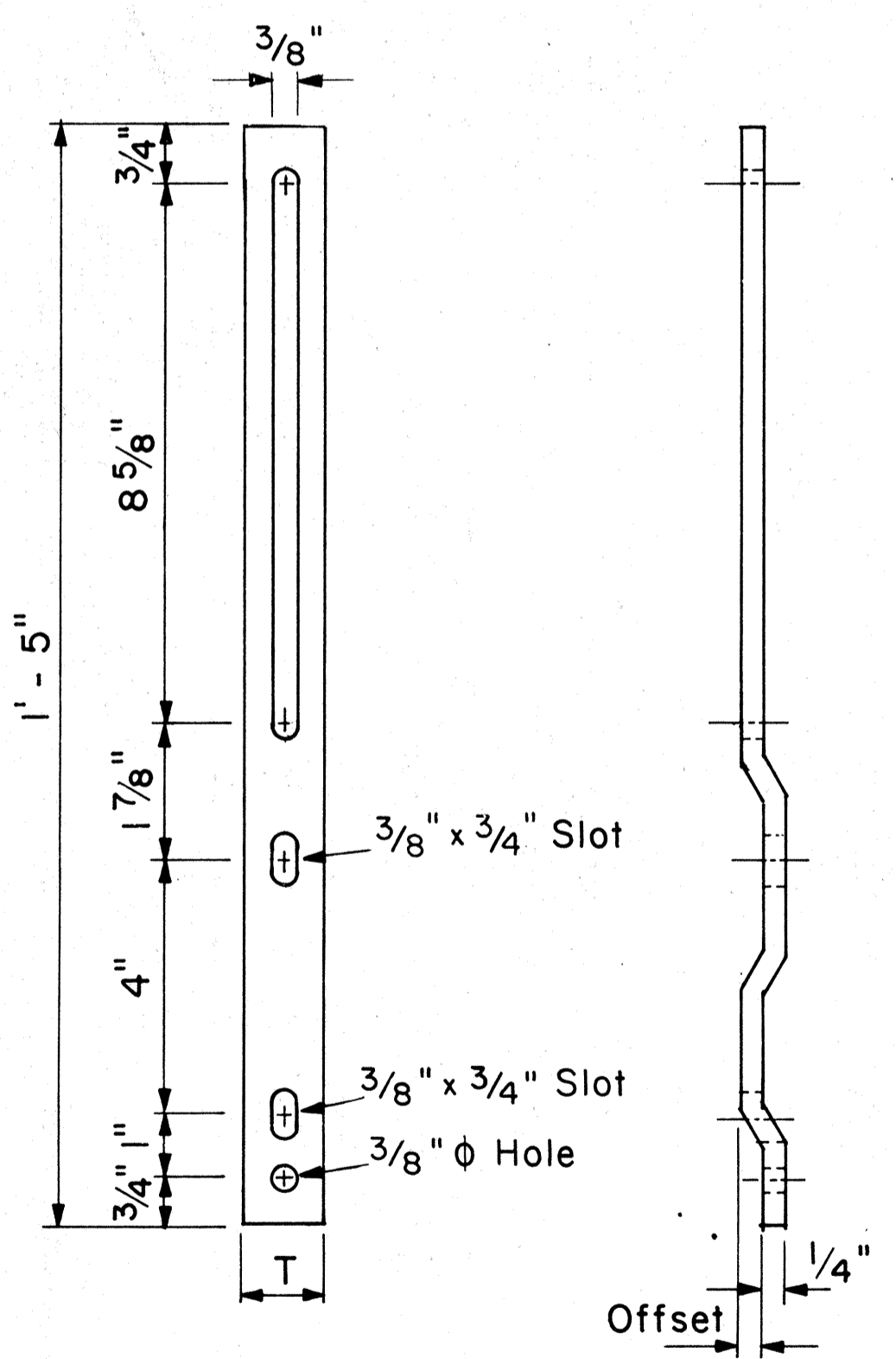
WINDLOAD CHARTS

NO.	REVISION	APPROVED BY	DATE



CONNECTION DETAIL

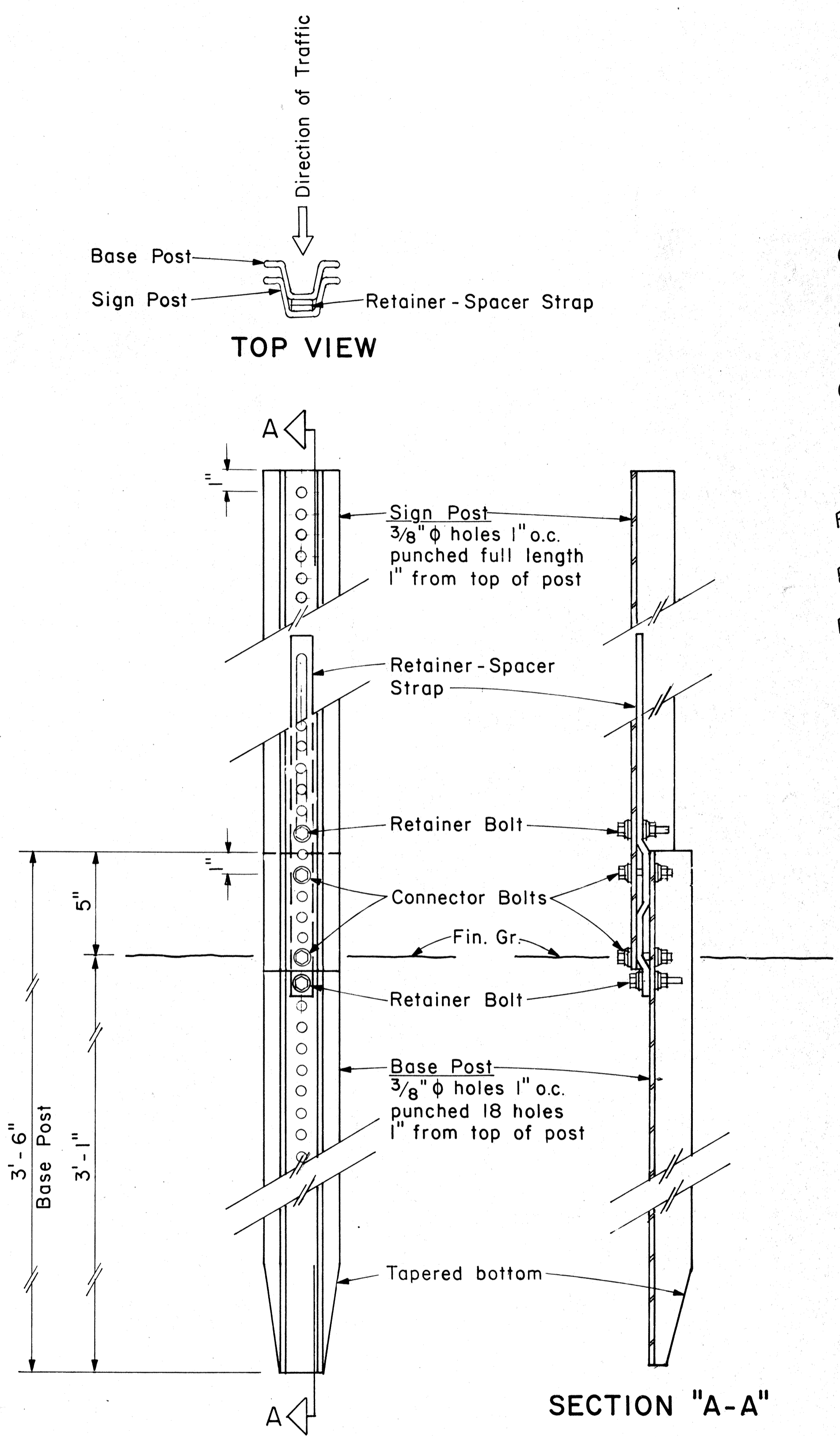
Not to Scale



RETAINER-SPACER STRAP

Not to Scale

Post Size	T	Offset
2.50 lbs./ft.	1.00"	0.145"
4.00 lbs./ft.	1.12"	0.280"



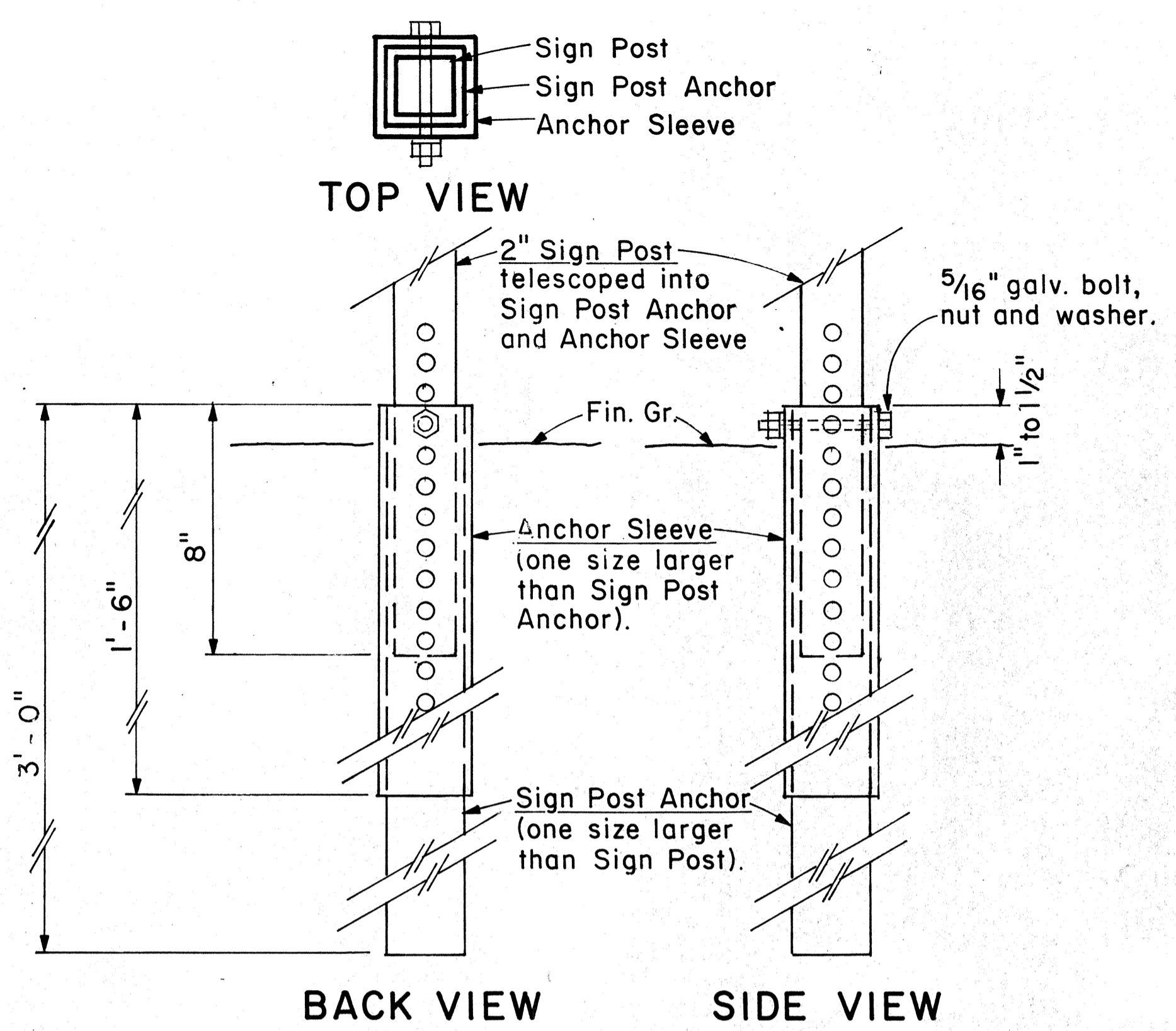
ANCHOR BASE DETAIL

Scale: 3" = 1'-0"

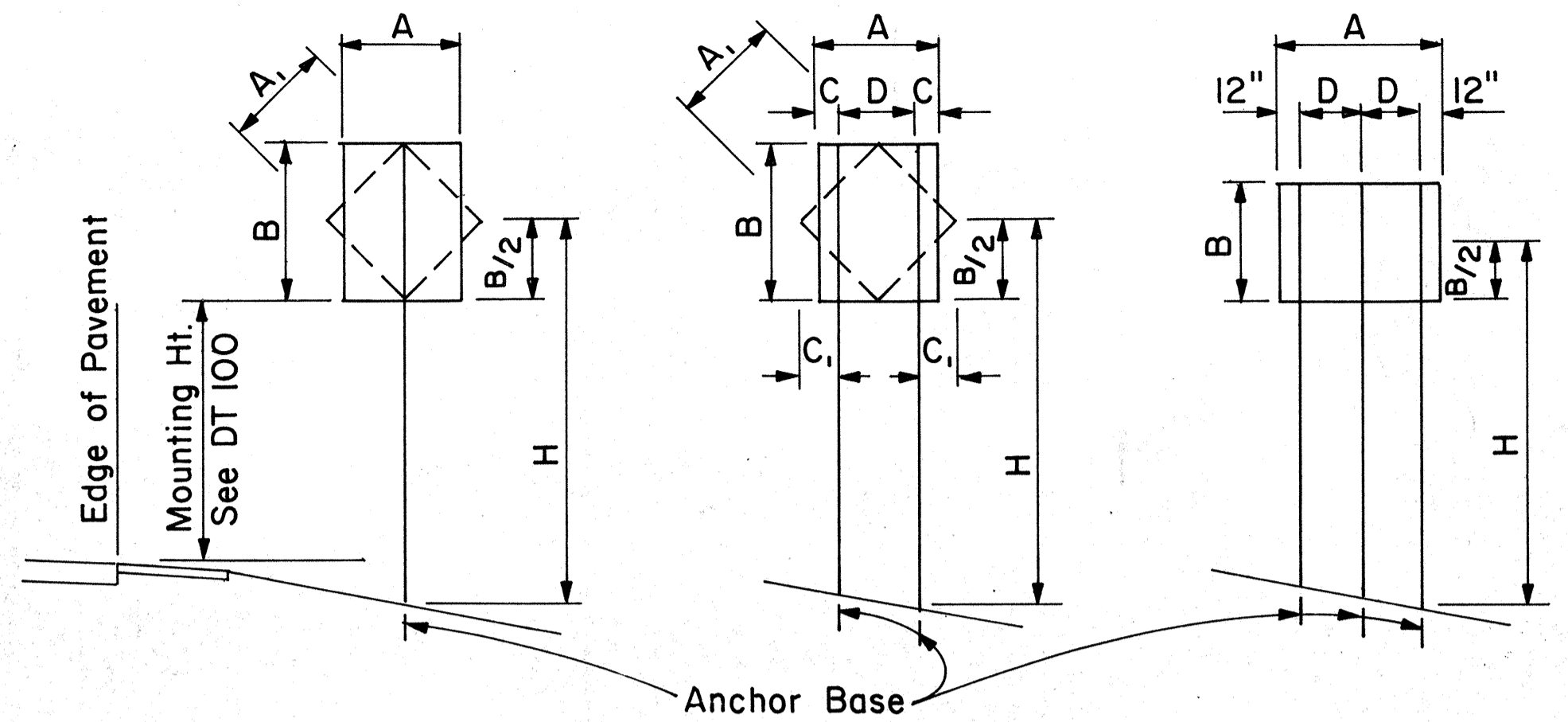
DATE: _____
SURVEY ELICITED BY: _____
DRAWN BY: _____
DESIGNED BY: _____
NOTE BOOK: _____
QUANTITIES BY: _____
CHECKED BY: _____

GENERAL NOTES

- Square tube sign posts shall conform to Subsection 713.11(C) Square Tube Posts of the Specifications.
- All accessories, fittings and stiffener details (as required) shall be submitted to Engineer for approval 20 days prior to installation.
- Square tube posts shall be perforated with $\frac{7}{16}$ " ϕ holes, 1" o.c., 4 sides, along entire length of post.
- All posts shall be 12 gage unless otherwise specified or shown on the plans.
- For additional details see sht. DT 100.
- Basic formulas for use with the windload charts:
 $Factor = A \times B \times H$
 Therefore, if sign area (A x B) is known,
 $Maximum\ H = \frac{Factor}{sign\ area(A \times B)}$
 and if H is known,
 $Maximum\ sign\ area(A \times B) = \frac{Factor}{H}$



2" SIGN POST INSTALLATION



1 - POST Sign area 10 sq. ft. and less
2 - POST Sign area greater than 10 sq. ft. or A = 48" - 60"
3 - POST A = greater than 60"

TYPICAL INSTALLATION

Not to Scale

A or A ₁	C	C ₁
36"	6"	-
48"	9"	19"
60"	12"	24"

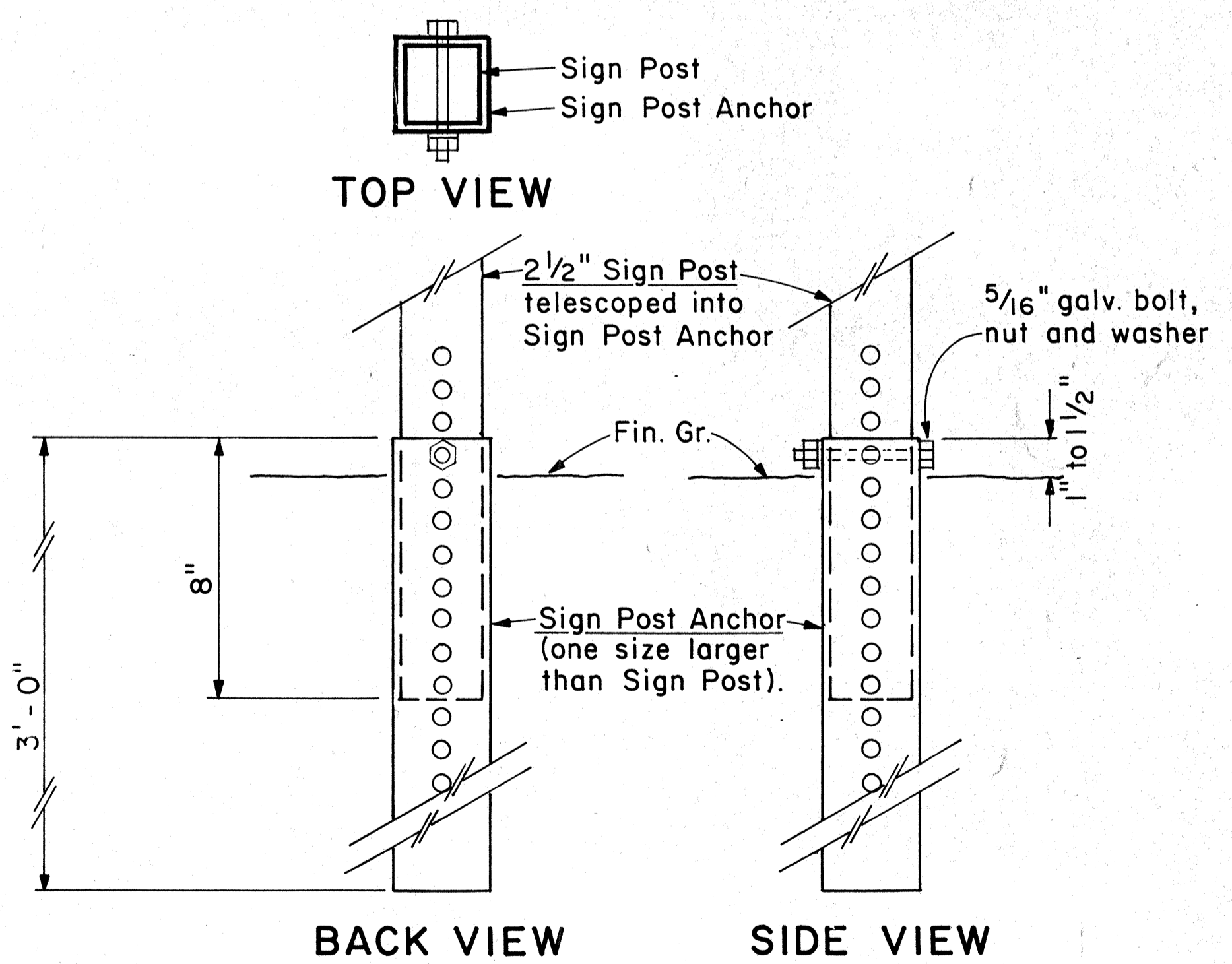
NOTE: Frame stiffeners are required when D is greater than 24". See Gen. Note 2.

SQUARE TUBE: 1- POST INSTALLATION							
Post Size	A x B x H (Factor)	H = Ground Level to Midpoint (ft.)					
		7	8	9	10	11	12
2"	62	8.8	7.7	6.8	6.1	5.6	4.8
2 1/2"	107	-	-	-	-	9.6	8.8

SQUARE TUBE: 2- POST INSTALLATION							
Post Size	A x B x H (Factor)	H = Ground Level to Midpoint (ft.)					
		7	8	9	10	11	12
2"	122	17.4	15.2	13.5	12.2	11.0	10.1
2 1/2"	212	30.2	26.5	23.5	21.1	19.2	17.6
2 1/2", 10 ga.	260	37.0	32.0	28.6	26.0	23.5	21.5

SQUARE TUBE: 3- POST INSTALLATION							
Post Size	A x B x H (Factor)	H = Ground Level to Midpoint (ft.)					
		7	8	9	10	11	12
2"	183	26.0	22.8	20.3	18.2	16.6	15.2
2 1/2"	318	45.4	39.5	35.2	31.5	28.8	26.5
2 1/2", 10 ga.	388	55.0	48.5	43.0	38.5	35.0	32.0

WINDLOAD CHARTS



2 1/2" SIGN POST INSTALLATION

ANCHOR BASE DETAIL

Scale: 3" = 1'-0"

APPROVAL RECOMMENDED:
Eishi Tanaka 9/21/82
 TRAFFIC ENGINEER DATE

APPROVED:
Herbert S. S. S. 9/22/82
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
 GALVANIZED SQUARE TUBE
 SIGN POST MOUNTING

Scale: As Shown Date: Sept. 1982
 SHEET No. 14 OF 24 SHEETS DT100B

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	43	58

 R1-1 30" x 30" R1-1-A 36" x 36"	 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 4" x 46" 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" R4-1-A 48" x 60"	 R4-2 24" x 30" R4-2-A 48" x 60"	 R4-3 24" x 30" R4-3-A 48" x 60"	 R4-5 24" x 30" R4-5-A 48" x 60"	 R4-6(500) 24" x 30" R4-6(500)-A 48" x 60"	 R4-7 24" x 30" 24" x 18" R4-7-A 48" x 60"	 R4-8 24" x 30" 24" x 18" R4-8-A 48" x 60"	 R5-1 30" x 30" R5-1-A 48" x 48"	 R5-2 24" x 24" 24" x 18"
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 R5-4 24" x 30" R5-4-A 48" x 60"	 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"	 R7-107(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" R8-1-A 48" x 60"	 R8-2 24" x 30" R8-2-A 48" x 60"
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 R8-3 24" x 30" R8-3-A 48" x 48"	 R8-4 30" x 24" R8-4-A 48" x 36"	 R8-5 24" x 30" R8-5-A 48" x 60"	 R8-6 24" x 30" R8-6-A 48" x 60"	 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"
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 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"
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 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"
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GENERAL NOTES

- Sign details shall conform to the latest editions of FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," "Standard Alphabets for Highway Signs," and "Standard Highway Signs," and as amended.
- All regulatory signs shall be reflectorized unless otherwise specified.
- All regulatory 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.
- All signs shall be erected without educational plaques unless called for in the plans.

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

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

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H.T.	2/20/72
2	Revised General Note 1	H.T.	10/10/74
3	Added General Note 5	H.T.	8/9/75
4	Revised Signs and General Note 1	E.T.	9/18/85



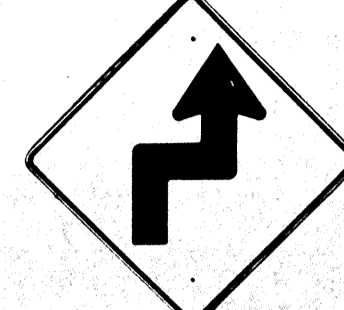
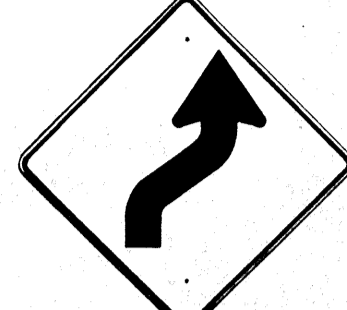
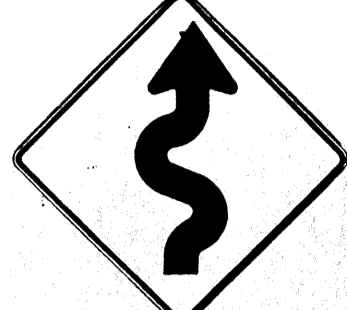

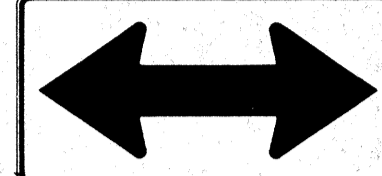
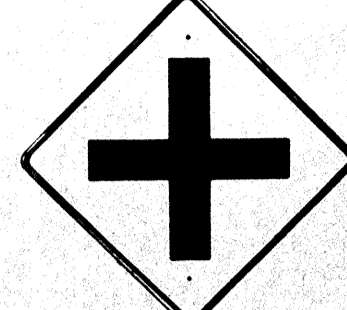
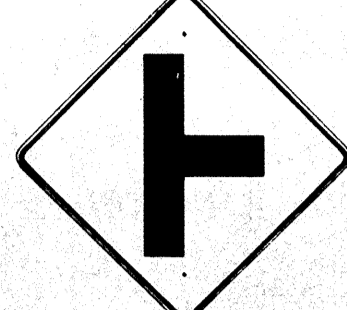
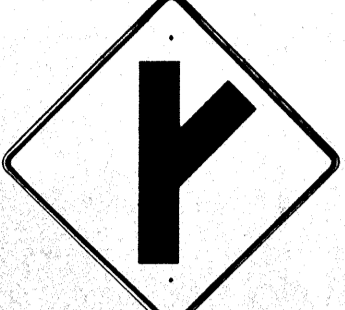
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

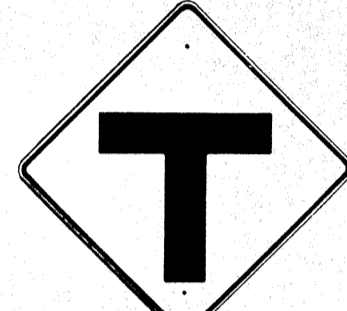



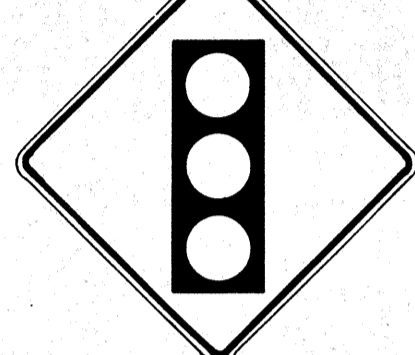
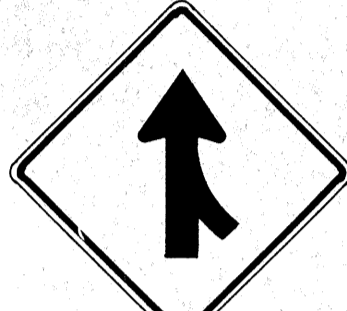
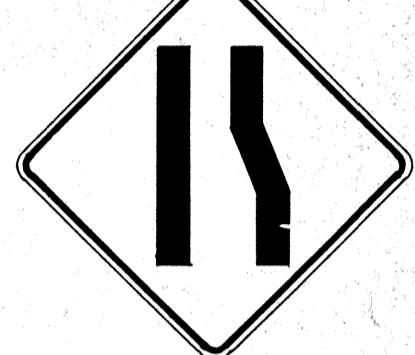



**STANDARD DETAILS
 REGULATORY SIGNS**



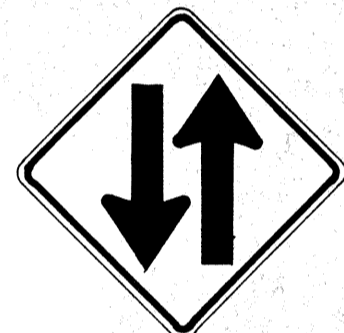
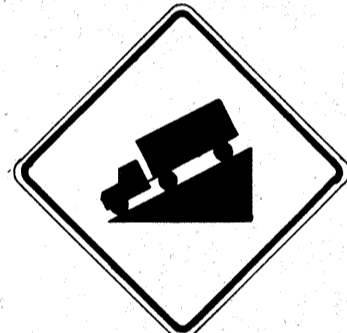
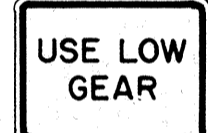



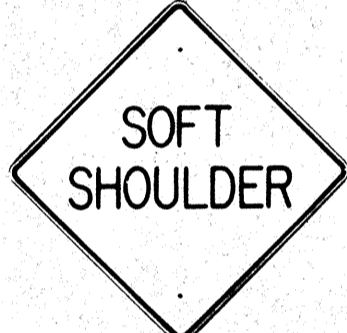

NOT TO SCALE
 SHEET No. 15 OF 24 SHEETS DT 101






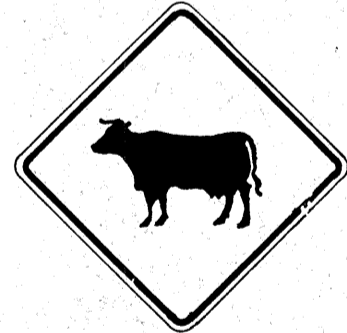

DATE: _____
 ORIGINAL PLAN: _____
 DRAWN BY: _____
 CHECKED BY: _____
 DESIGNED BY: _____
 NO. _____

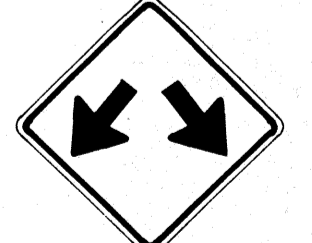


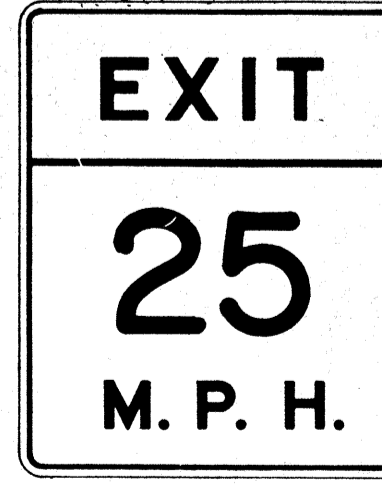
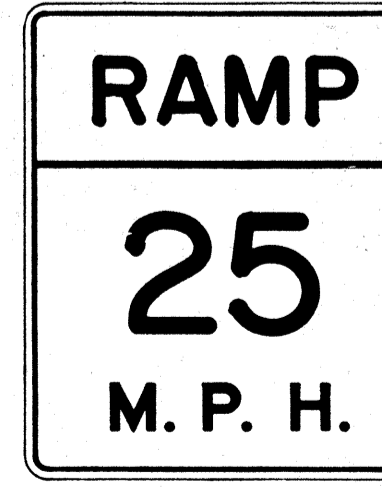

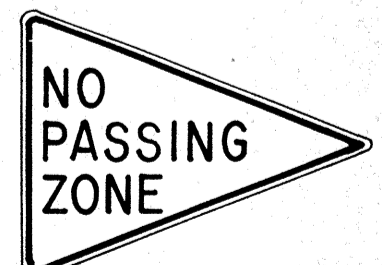
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII*	HAW.	63A-01-86M 63A-02-26	1986	44	58

 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"
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 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" W5-1-A 48"x48"	 W5-2 30"x30" W5-2-A 36"x36"	 W5-3 36"x36" W5-3-A 48"x48"
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 W6-1 36"x36" 24"x18" W6-1-A 48"x48" 24"x18"	 W6-2 36"x36" 24"x18" W6-2-A 48"x48" 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 48"x48" 24"x18"	 W7-2 24"x18"	 W8-1 30"x30" W8-1-A 36"x36" W8-1-B 48"x48"	 W8-2 30"x30" W8-2-A 36"x36" W8-2-B 48"x48"	 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"
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 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" W11-1-B 48"x48"	 W11A-2 30"x30" 24"x18" W11A-2-A 36"x36" 24"x18" W11A-2-B 48"x48" 24"x18"	 W11-4 30"x30" 24"x18" W11-4-A 36"x36" 24"x18" W11-4-B 48"x48" 24"x18"	 W11-5 30"x30" 24"x18" W11-5-A 36"x36" 24"x18" W11-5-B 48"x48"
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 W12-1 24"x24" W12-1-A 36"x36" W12-1-B 48"x48"	 W12-2(12'-6") 36"x36" 24"x18" W12-2(12'-6") 48"x48"	 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" W14-1-A 36"x36"	 W14-3 36"x48"x48" W14-3-A 48"x64"x64"
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GENERAL NOTES

1. Sign details shall conform to the latest editions of FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways", "Standard Alphabet for Highway Signs", and "Standard Highway Signs", 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:
Eishi Tanaka 3/17/12
 TRAFFIC ENGINEER DATE

APPROVED:
John J. Salsin 3-20-12
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 102 Approved 12-30-69	H.T.	3/20/12
2	Revised General Note 1	H.T.	10/16/12
3	Revised General Note 5	M.H.	9-16-75
4	Revised General Note 5	H.T.	9-14-75
5	Added Note 1	H.T.	11-4-79
6	Revised Signs & General Note 1	E.T.	9/18/85

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
WARNING SIGNS

NOT TO SCALE

SHEET No. 16 OF 24 SHEETS DT 102

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	45	58

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 R2-5a 24" x 30"
R2-5a-A 48" x 60"

SPEED LIMIT ENFORCED BY RADAR 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 12" x 24"

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

NO PARKING ANY TIME 4" Series C
1 1/2" R8-3a 24" x 24"
24" x 18"
R8-3a-A 48" x 48"

NO PEDESTRIAN CROSSING 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 AHEAD 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"
W8-6-B 48" x 48"

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

U TURN AHEAD W4-3 36" x 36"
W4-3-A 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 ACCESSIBLE 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 W15-1 24" x 24"

ADVANCE GREEN 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 S3-1 30" x 30"
S3-1-A 36" x 36"

8:00 AM TO 3:30 PM S4-1 24" x 10"

SCHOOL S4-3 24" x 8"

WHEN CHILDREN ARE PRESENT S4-2 24" x 10"

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:
Robert S. Dateishi 5/3/78
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 103 approved 3/20/72	H.T.	5/3/78
2	Added General Note 6	H.T.	11/9/79
3	Revised Signs and added Sign W4-3	E.T.	9/18/80

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

MISCELLANEOUS SIGNS

NOT TO SCALE DATE: MAY, 1978
SHEET No. 17 OF 24 SHEETS DT 103

DATE: _____

ORIGINAL PLAN _____

DESIGNED BY _____

QUANTITIES BY _____

CHECKED BY _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	46	58



CW20-1a 48" x 48"



CW20-2d 48" x 48"



CW20-3b 48" x 48"



CW20-4d 48" x 48"



CW20-5d(L) 48" x 48"



CW21-1 30" x 30"



CW21-2 30" x 30"



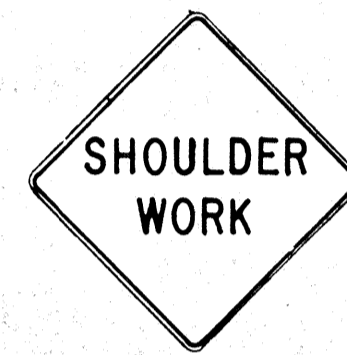
CW20-7c 36" x 36"
24" x 18"
CW20-7c-A 48" x 48"
24" x 18"



CW21-3 36" x 36"



CW21-4 36" x 36"



CW21-5 30" x 30"



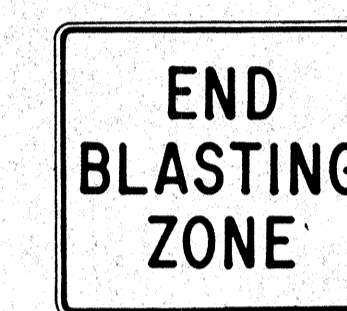
CW21-6 30" x 30"



CW22-1b 48" x 48"



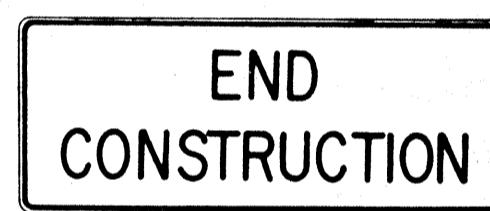
CW22-2 42" x 36"



CW22-3 42" x 36"



CG20-1(5) 60" x 36"



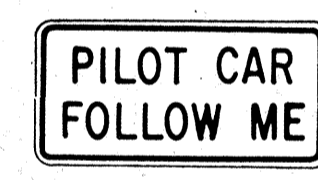
CG20-2 60" x 24"



CM4-9(R) 30" x 24"



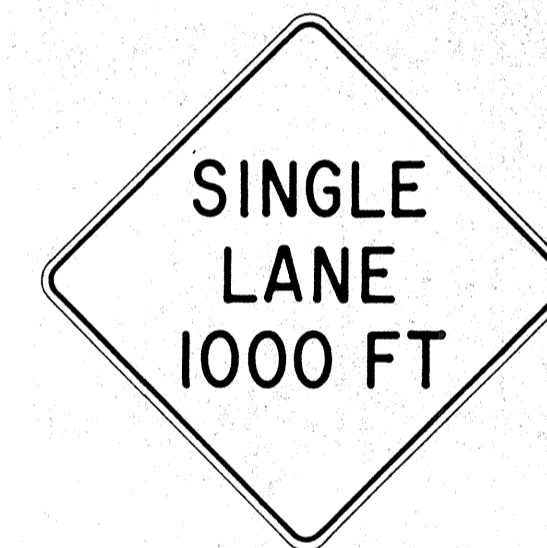
CM4-10(R) 48" x 18"



CG20-4 36" x 18"



CW23-1 36" x 36"



CW23-2b 48" x 48"



CW23-3(R) 48" x 48"

GENERAL NOTES

1. Sign details shall conform to the latest editions of FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," "Standard Alphabets for Highway Signs," and "Standard Highway Signs," and as amended.
2. All construction signs shall be reflectorized.
3. All construction 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. 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:
Erich Tanaka 3/21/72
TRAFFIC ENGINEER DATE

APPROVED:
Arthur Salsich 3/22/72
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 104 Approved 12-30-69	H.C.	3/25/72
2	Revised General Note 1	H.C.	10/16/74
3	Revised General Note 2	M.H.	9-16-75
4	Revised General Note 2 and sign CG20-1(5)	H.C.	9-14-76
5	Revised General Note 1 and sign CW20-7c	E.T.	9/18/85

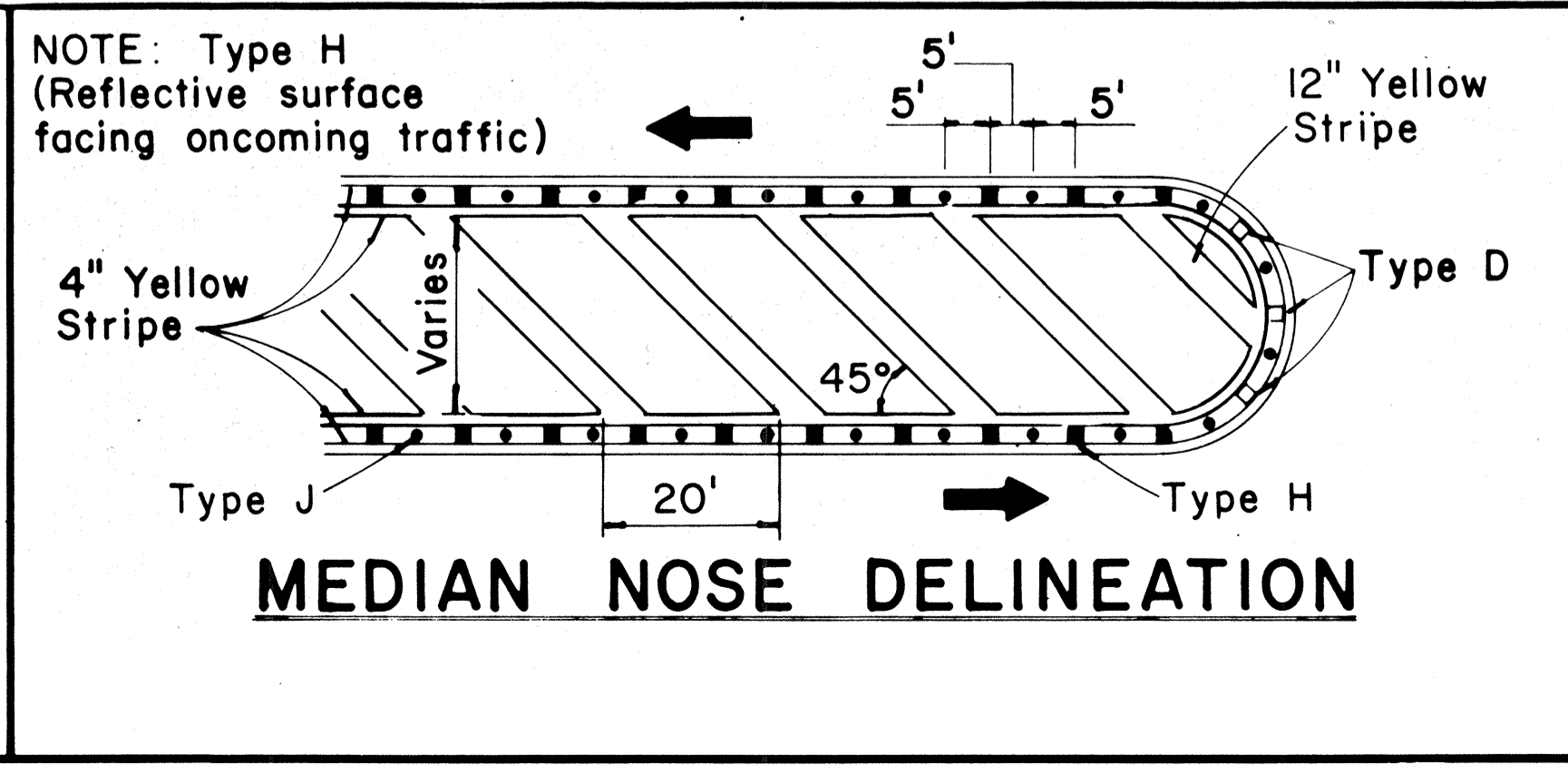
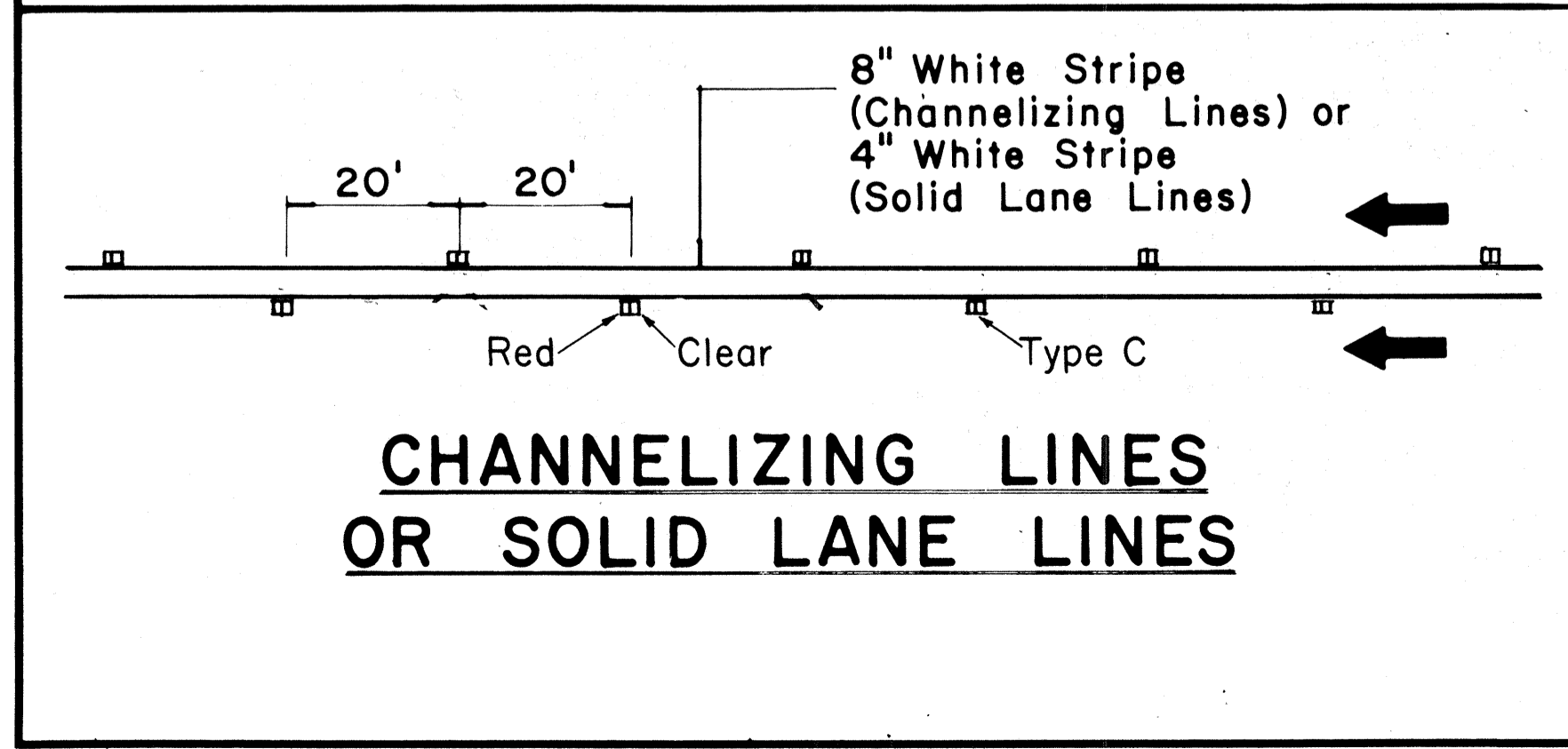
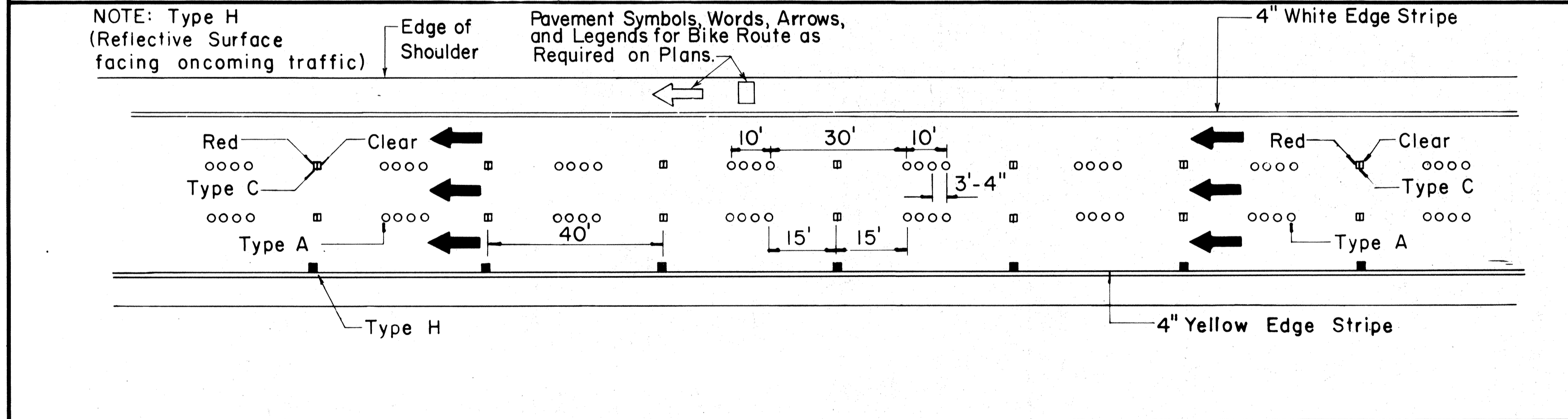
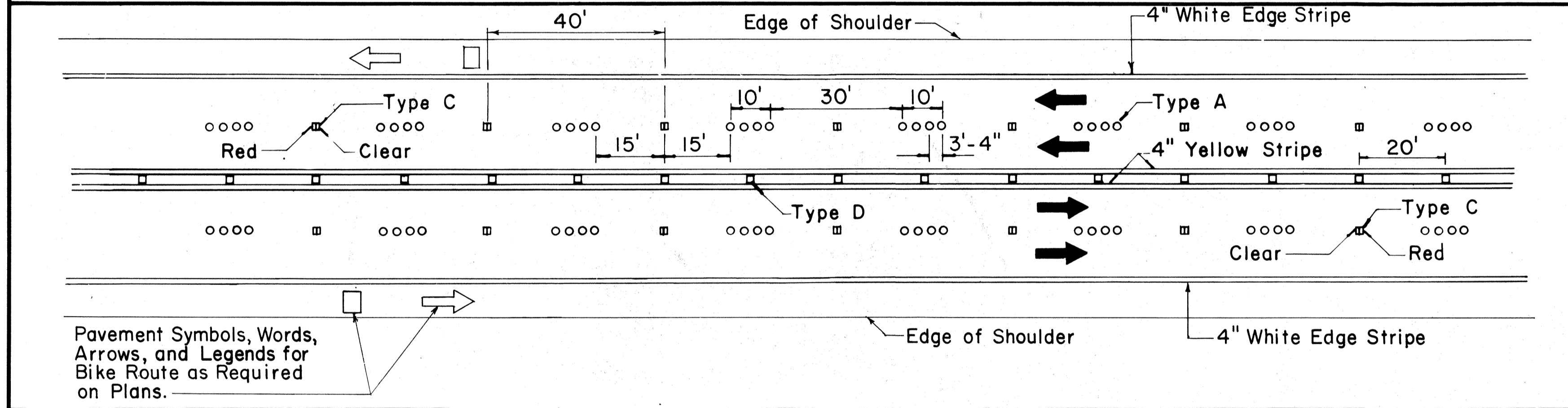
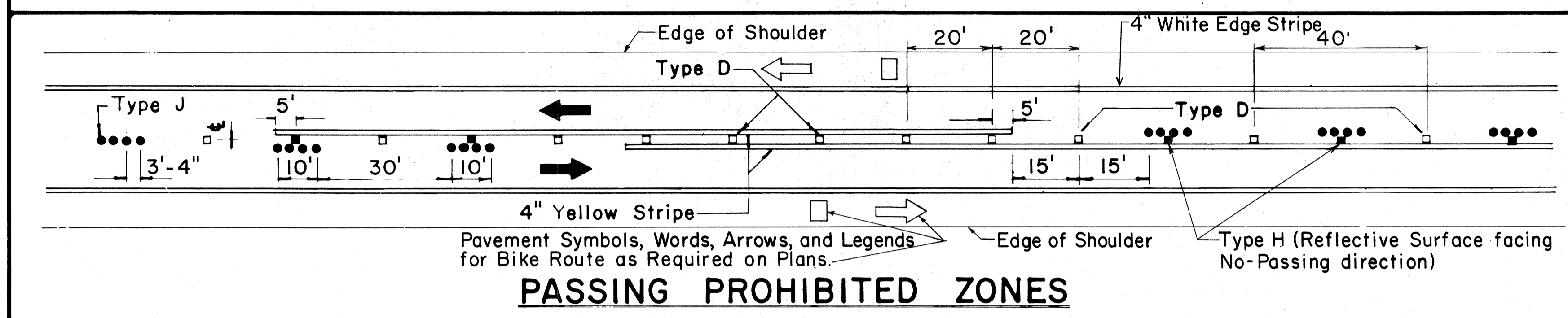
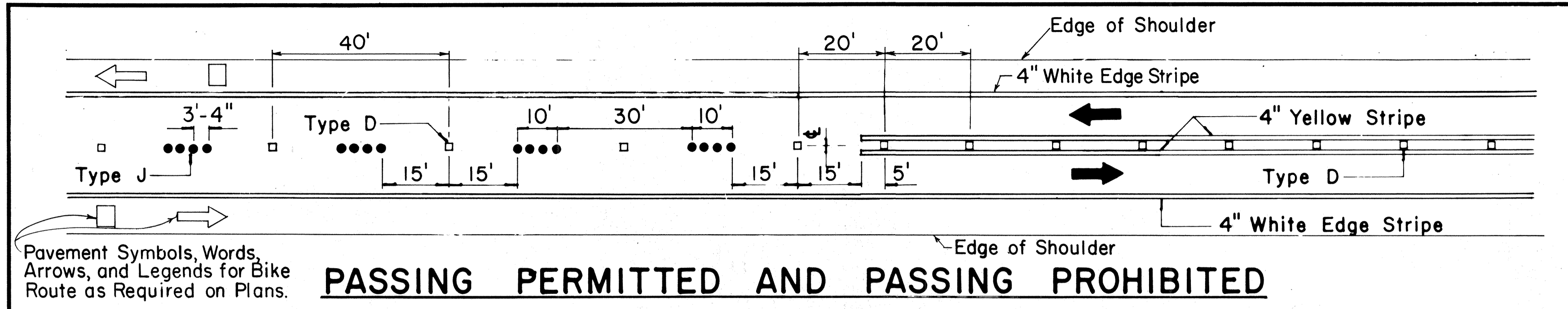
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
CONSTRUCTION SIGNS

NOT TO SCALE
SHEET No. 18 OF 24 SHEETS DT 104

DESIGNED BY	DATE
DRAWN BY	" "
CHECKED BY	" "
NO. _____	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86 63A-02-86	1986	47	58

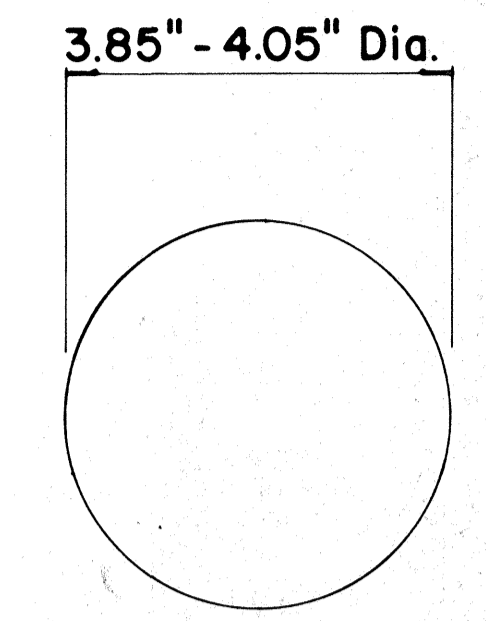


TWO - LANE

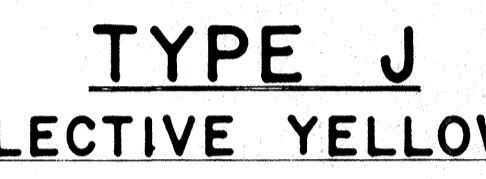
MULTI - LANE

DIVIDED HIGHWAY AND FREEWAY

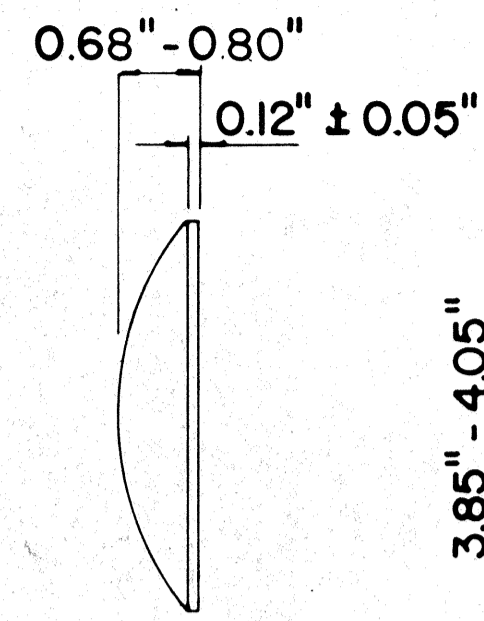
MISCELLANEOUS



TYPE A
NON-REFLECTIVE WHITE MARKER



TYPE J
NON-REFLECTIVE YELLOW MARKER



TYPE C
RED-CLEAR REFLECTIVE MARKER



TYPE D
TWO-WAY YELLOW REFLECTIVE MARKER



TYPE H
ONE-WAY YELLOW REFLECTIVE MARKER

GENERAL NOTES

1. Pavement marking and striping shall conform to the latest "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
2. 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.
3. Edge lines shall not be continued through intersections and shall not be broken for driveways unless otherwise shown or directed.

LEGEND

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

APPROVAL RECOMMENDED:
Ericki Tanaka 7/21/78
 TRAFFIC ENGINEER DATE

APPROVED:
Harbert J. Zaleski 1/24/78
 ASSISTANT CHIEF, ENGINEERING DATE

No.	REVISION	APPROVED BY	DATE
1	Supersedes DT 300 approved 11/18/71.	H.T.	1/24/78
2	Delete Type A Markers from Bike Route Delineation.	H.T.	10/15/79
3	Added General Note 3. Revised left edge stripe.	H.T.	9-28-83
4	Revised Channelizing Lines or Solid Lane Lines.	E.T.	9/10/85

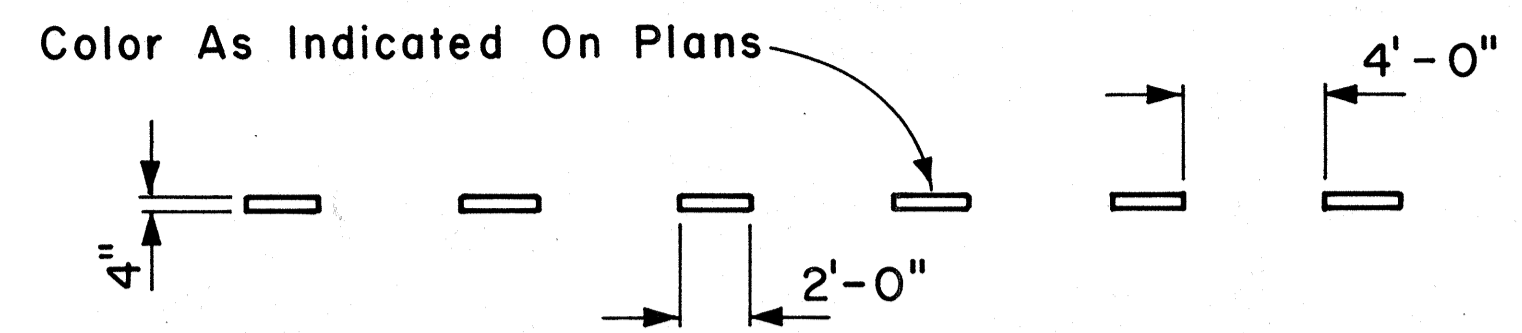
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
RAISED PAVEMENT MARKERS
AND STRIPING

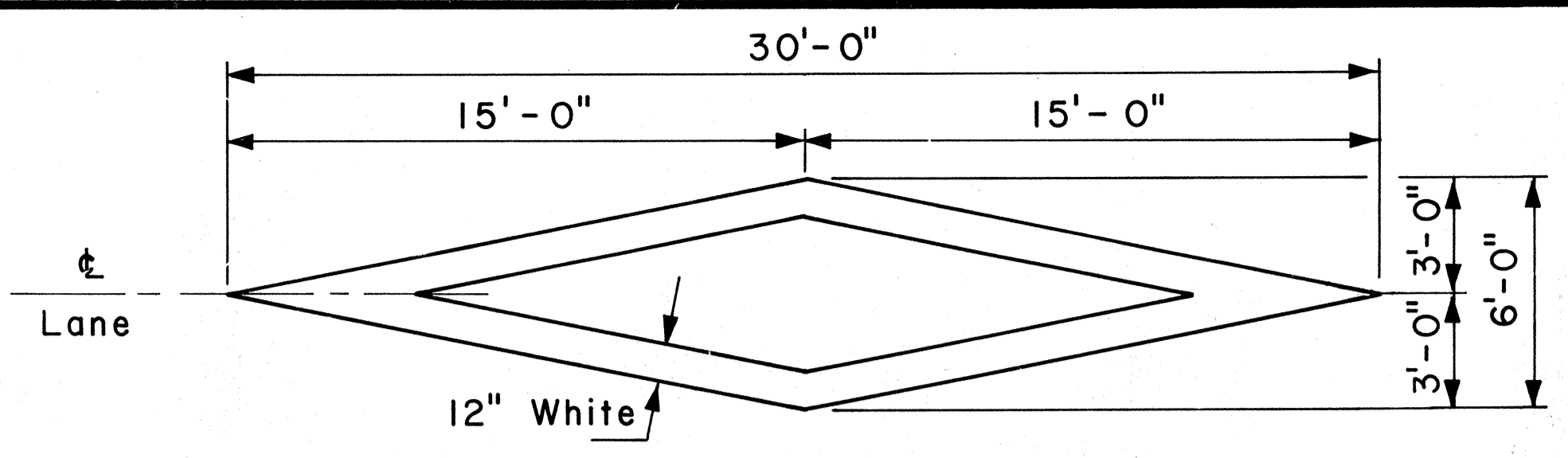
Not to Scale July 1978
 SHEET No. 19 OF 24 SHEETS DT 300

DATE	
REVISION	
BY	
CHECKED BY	
DESIGNED BY	
PLACED BY	
QUANTITIES BY	
NOTED BY	
ORIGINAL PLAN	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	48	58



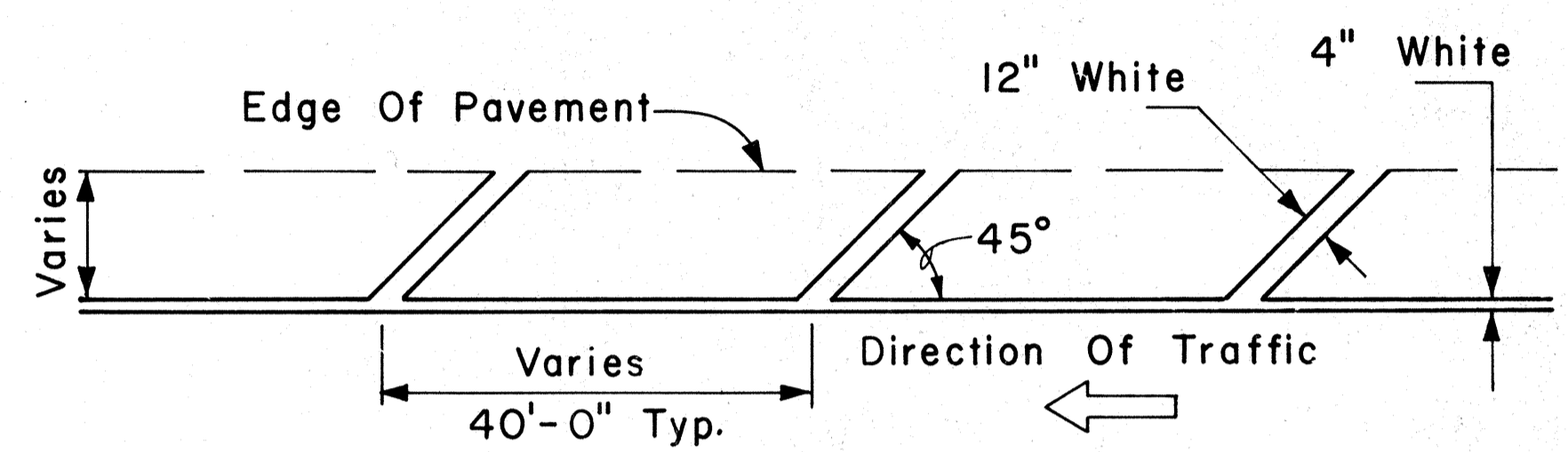
4" GUIDE LINE



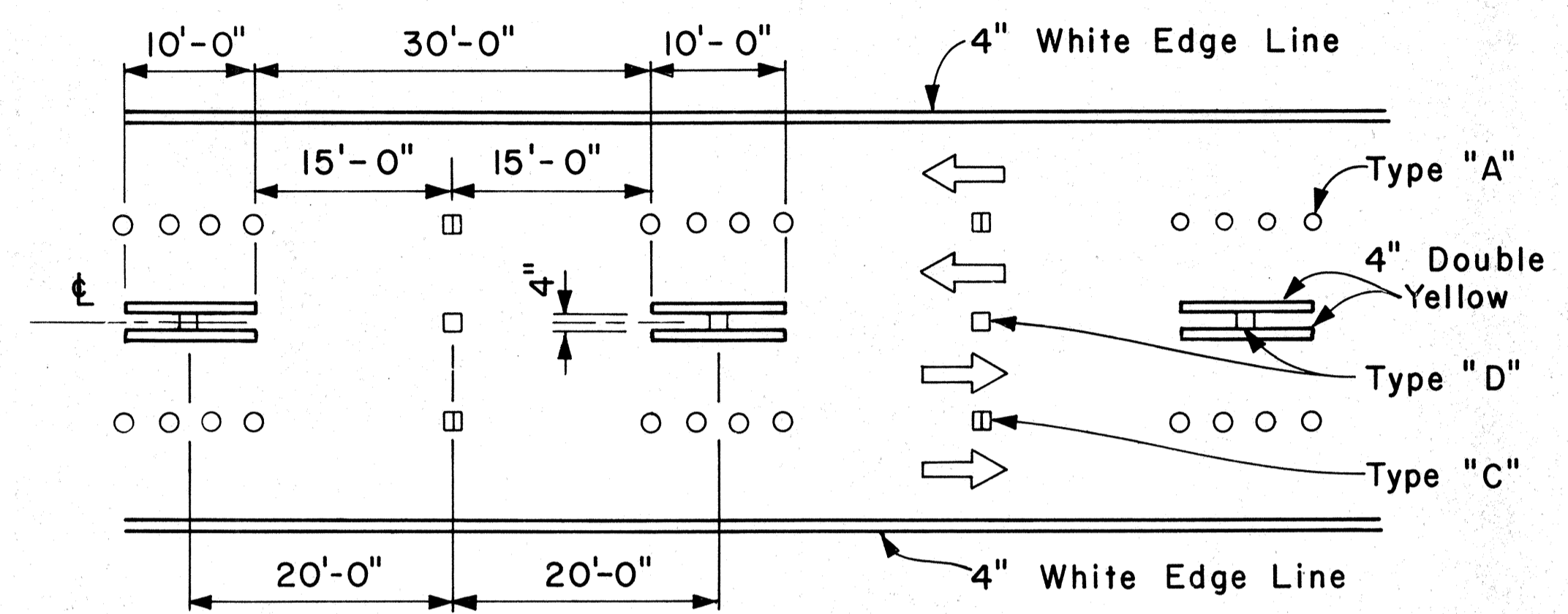
PAVEMENT DIAMOND

GENERAL NOTES:

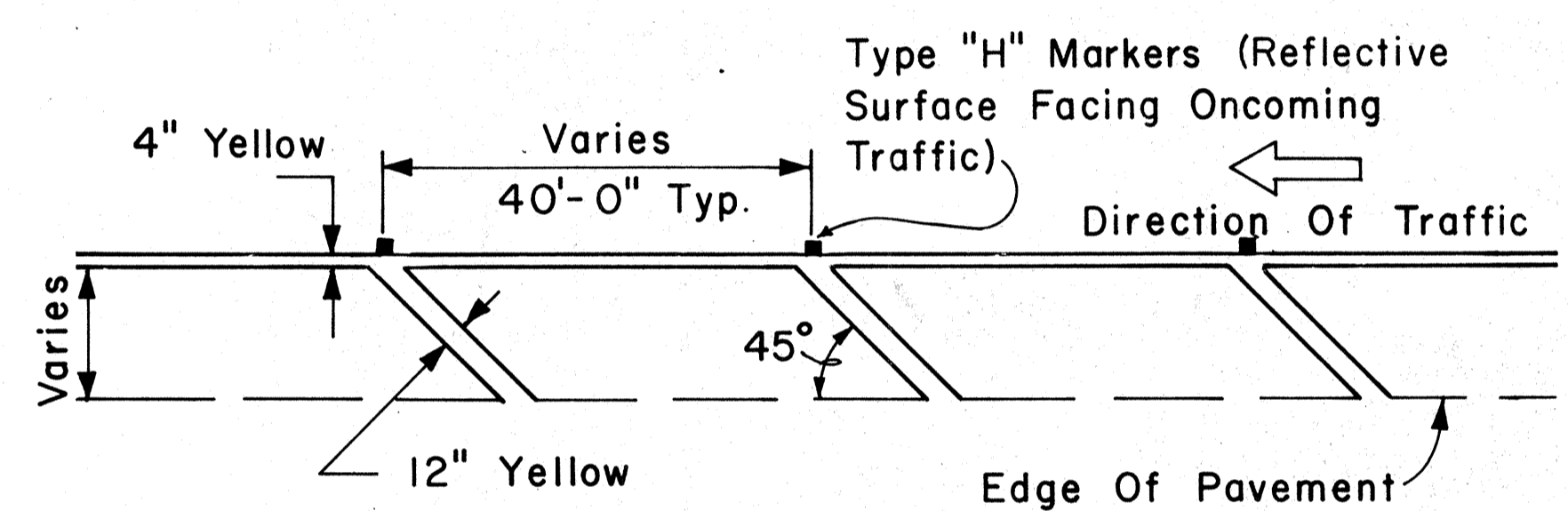
1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and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



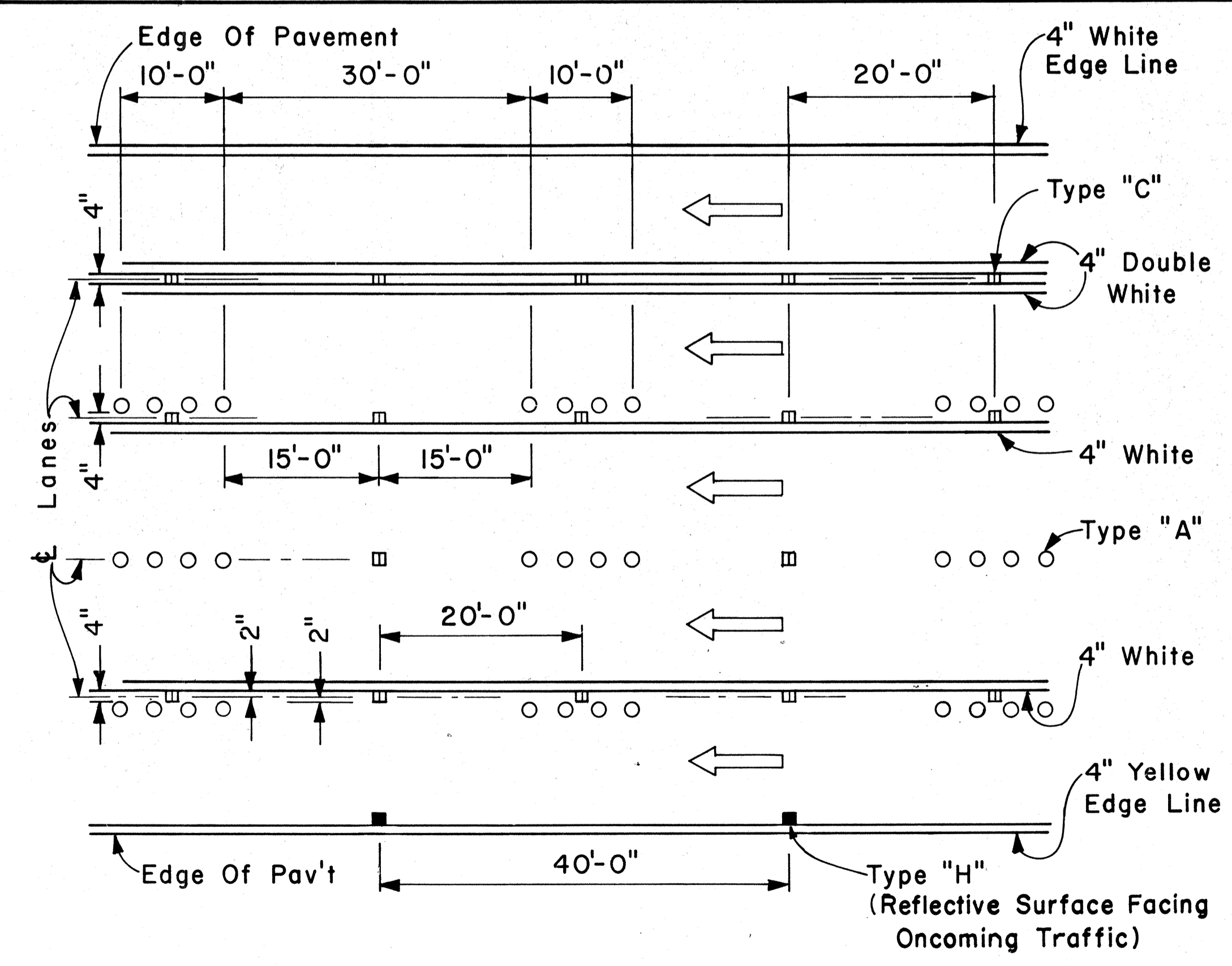
TRANSVERSE RIGHT SHOULDER MARKING



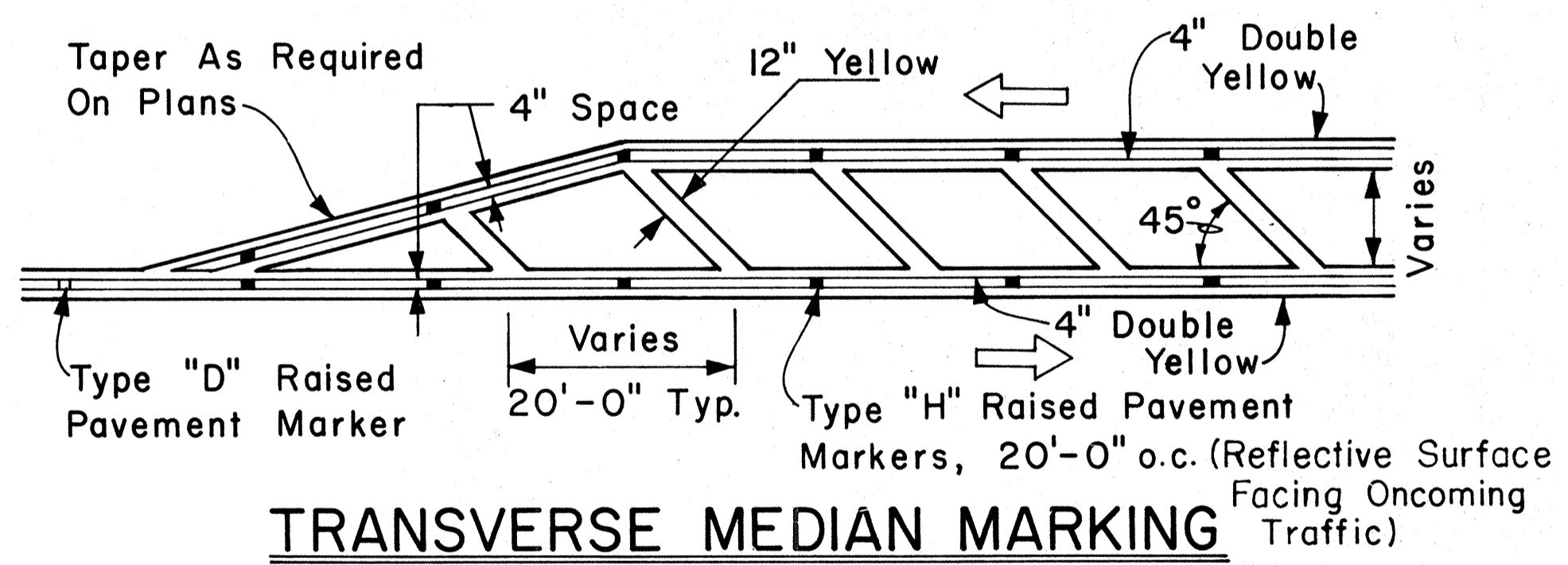
MULTI-LANE REVERSIBLE LANES



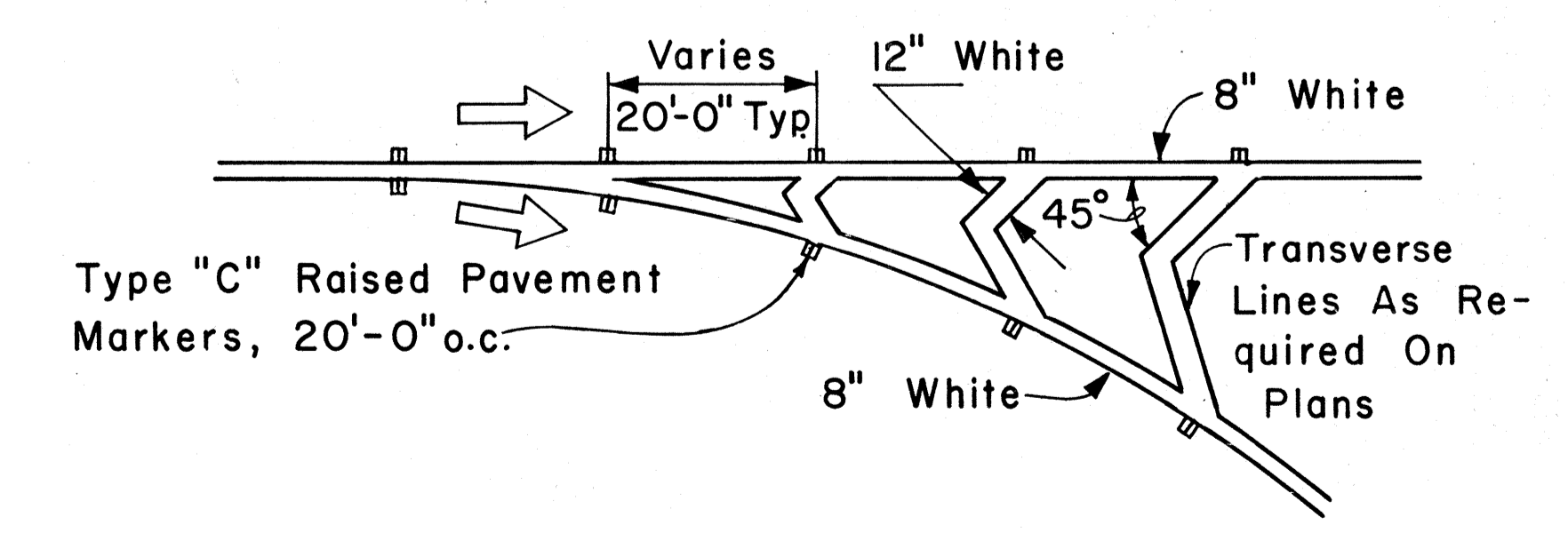
TRANSVERSE LEFT SHOULDER MARKING



MULTI-LANE LANE CHANGE RESTRICTION ZONES



TRANSVERSE MEDIAN MARKING



CHANNELIZING ISLAND

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

APPROVED:
Robert S. Zafsch 5/3/78
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Revised Transverse left Shoulder Marking, Channelizing Island & Lane Change Restriction Zones.	<i>E.T.</i>	7/10/85

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
STANDARD DETAILS
 MISCELLANEOUS
 PAVEMENT MARKINGS

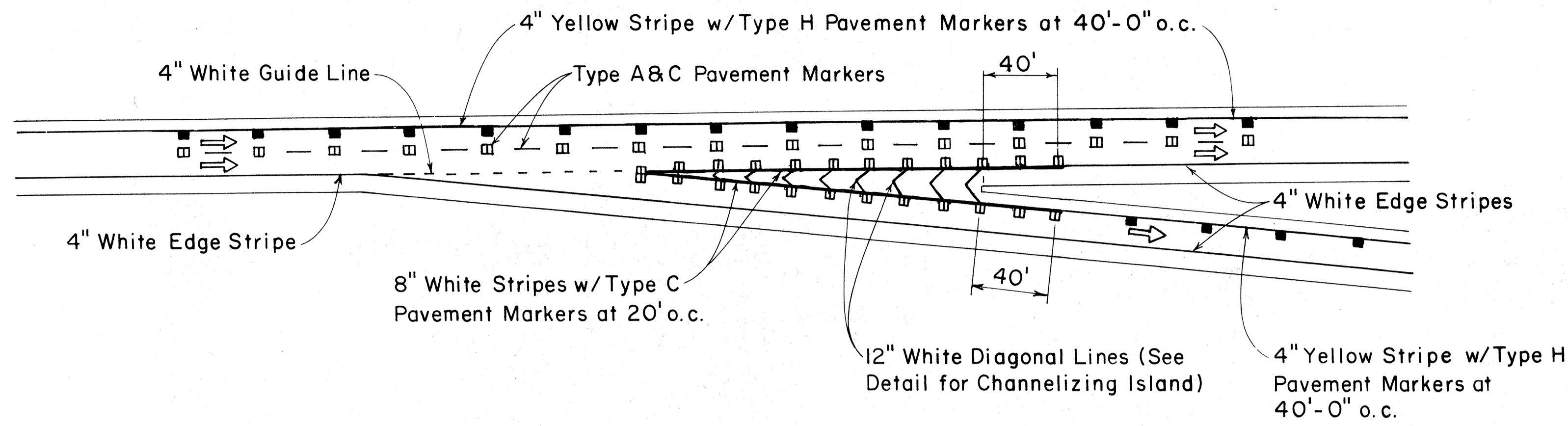
Scale: Not to Scale Date: April, 1978
 SHEET No. 20 OF 24 SHEETS DT 302

ORIGINAL SURVEY PLOTTED BY: _____ DATE: _____
 PLAN TRACED BY: _____
 NOTE BOOK DESIGNED BY: _____
 QUANTITIES BY: _____
 CHECKED BY: _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	49	58

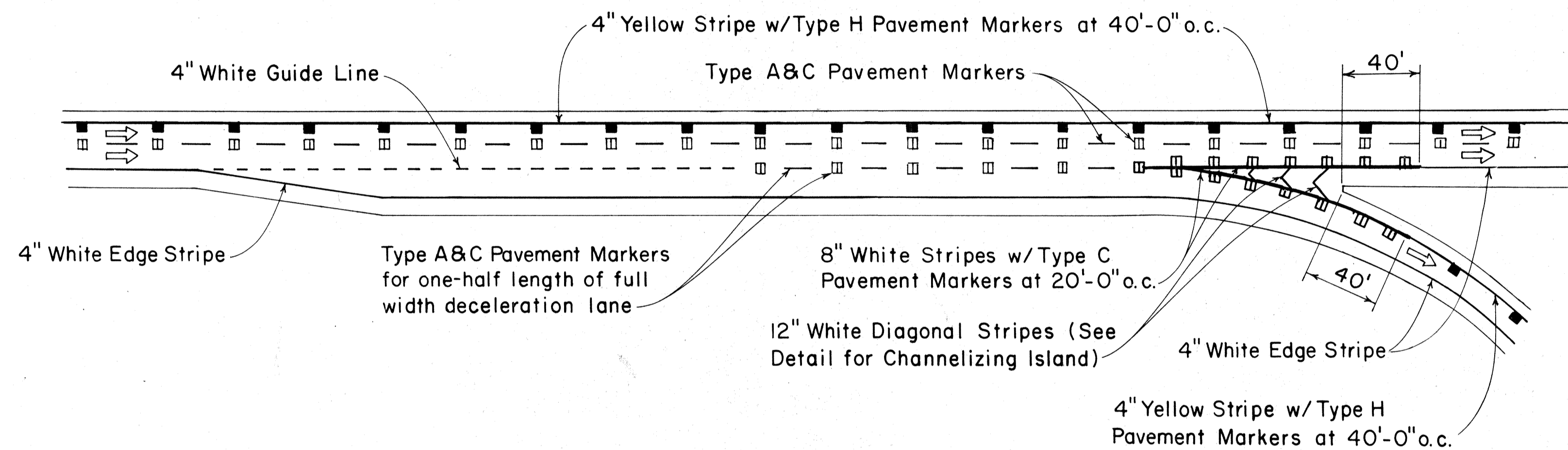
GENERAL NOTES:

1. Pavement Markings 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 details, see sheet DT 300.



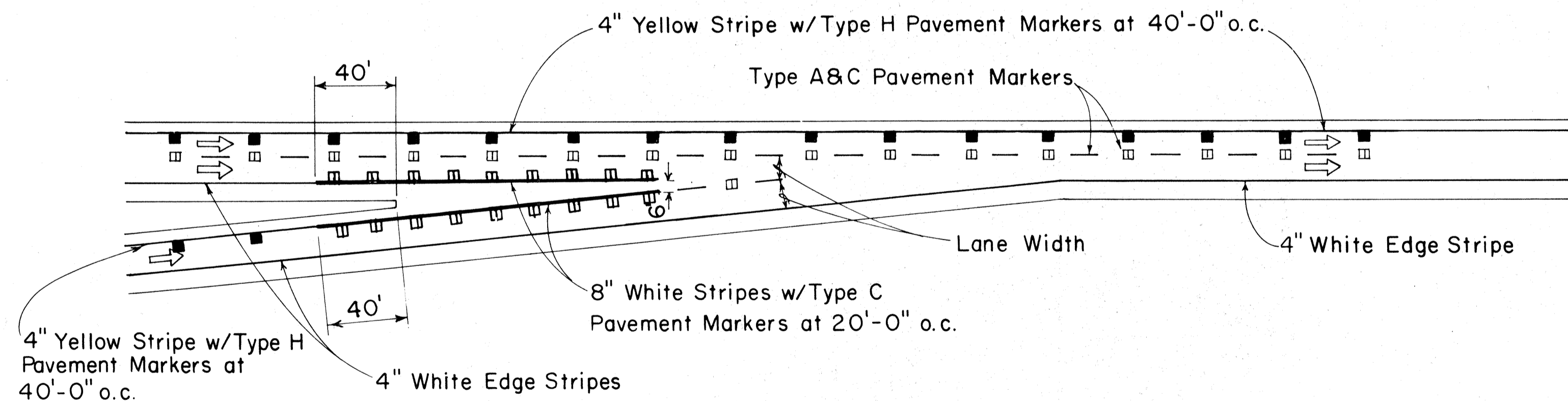
TAPERED DECELERATION LANE

TYPICAL ROADWAY EXIT MARKINGS



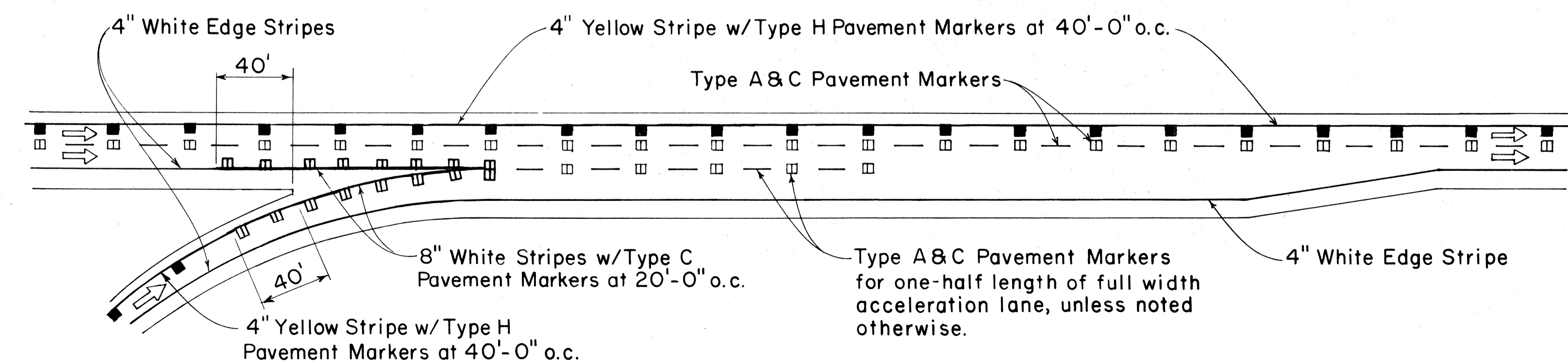
PARALLEL DECELERATION LANE

TYPICAL ROADWAY EXIT MARKINGS



TAPERED ACCELERATION LANE

TYPICAL ROADWAY ENTRANCE MARKINGS



PARALLEL ACCELERATION LANE

TYPICAL ROADWAY ENTRANCE MARKINGS

APPROVAL RECOMMENDED:
Eiichi Tanaka 7/21/78
 TRAFFIC ENGINEER DATE

APPROVED:
Robert S. Sakai 7/24/78
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Revised Typical Roadway Entrance Markings and Typical Roadway Exit Markings.	E.T.	7/21/78

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS
MISCELLANEOUS
PAVEMENT MARKINGS

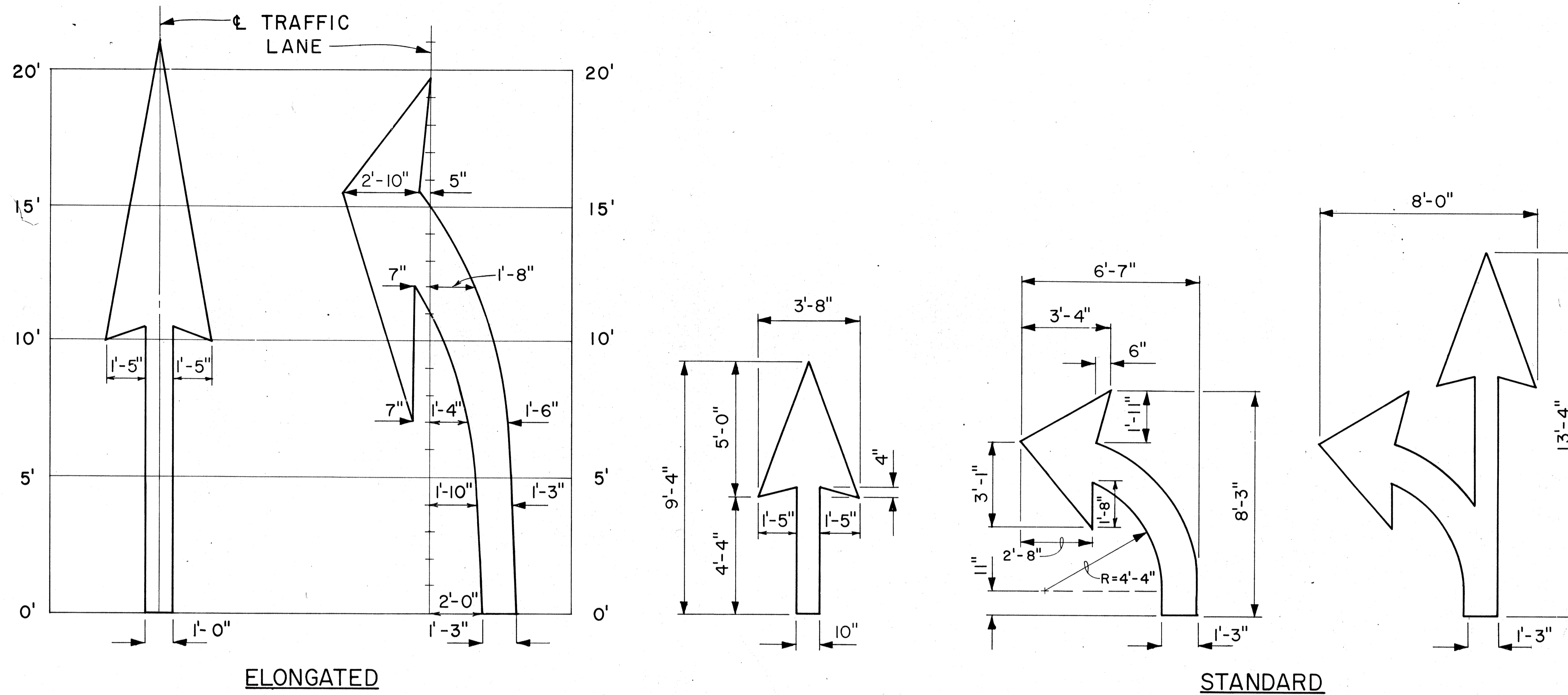
Not to Scale July 1978
 SHEET No. 21 OF 24 SHEETS DT 304

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	50	58

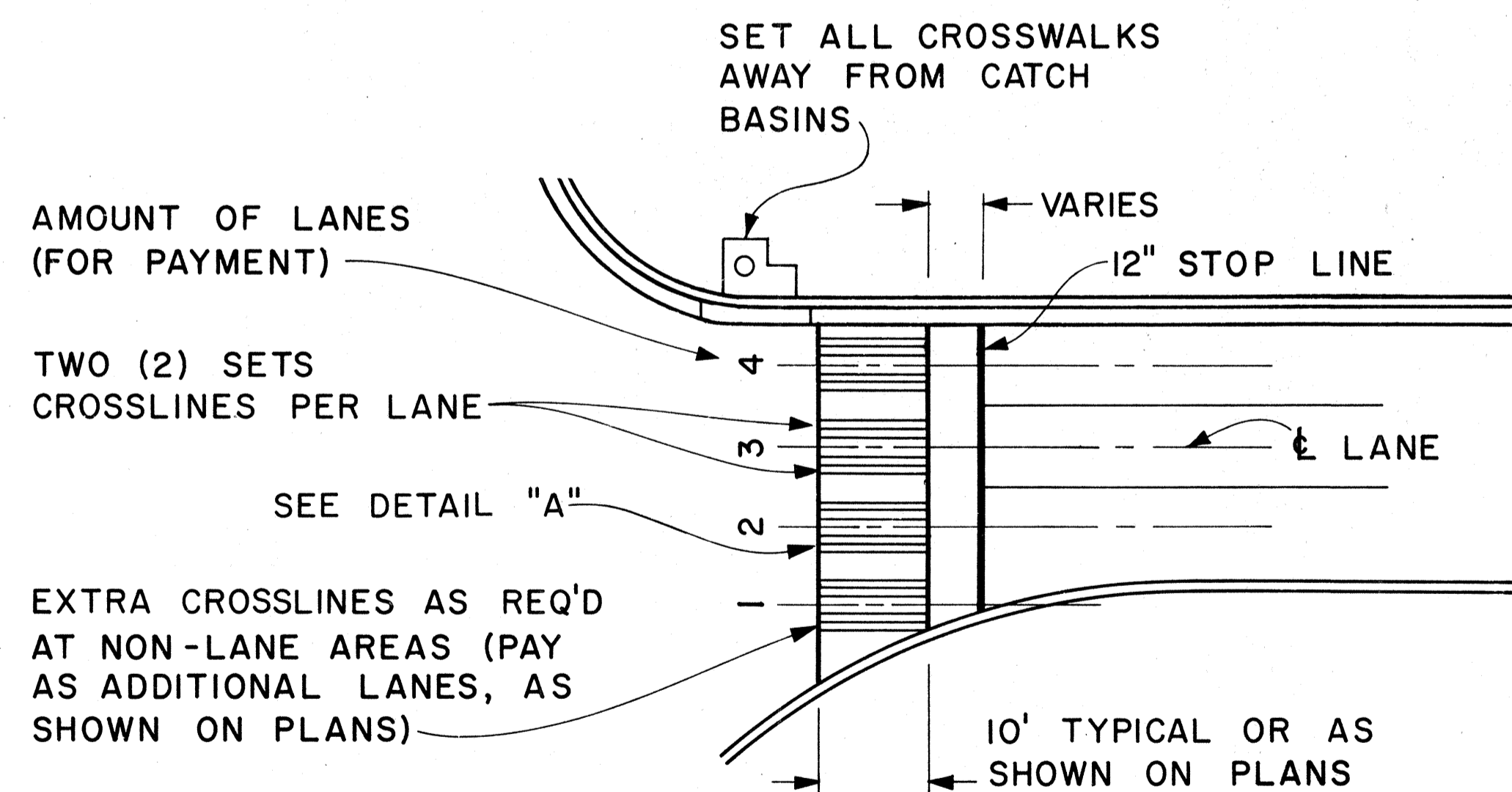
GENERAL NOTES:

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.

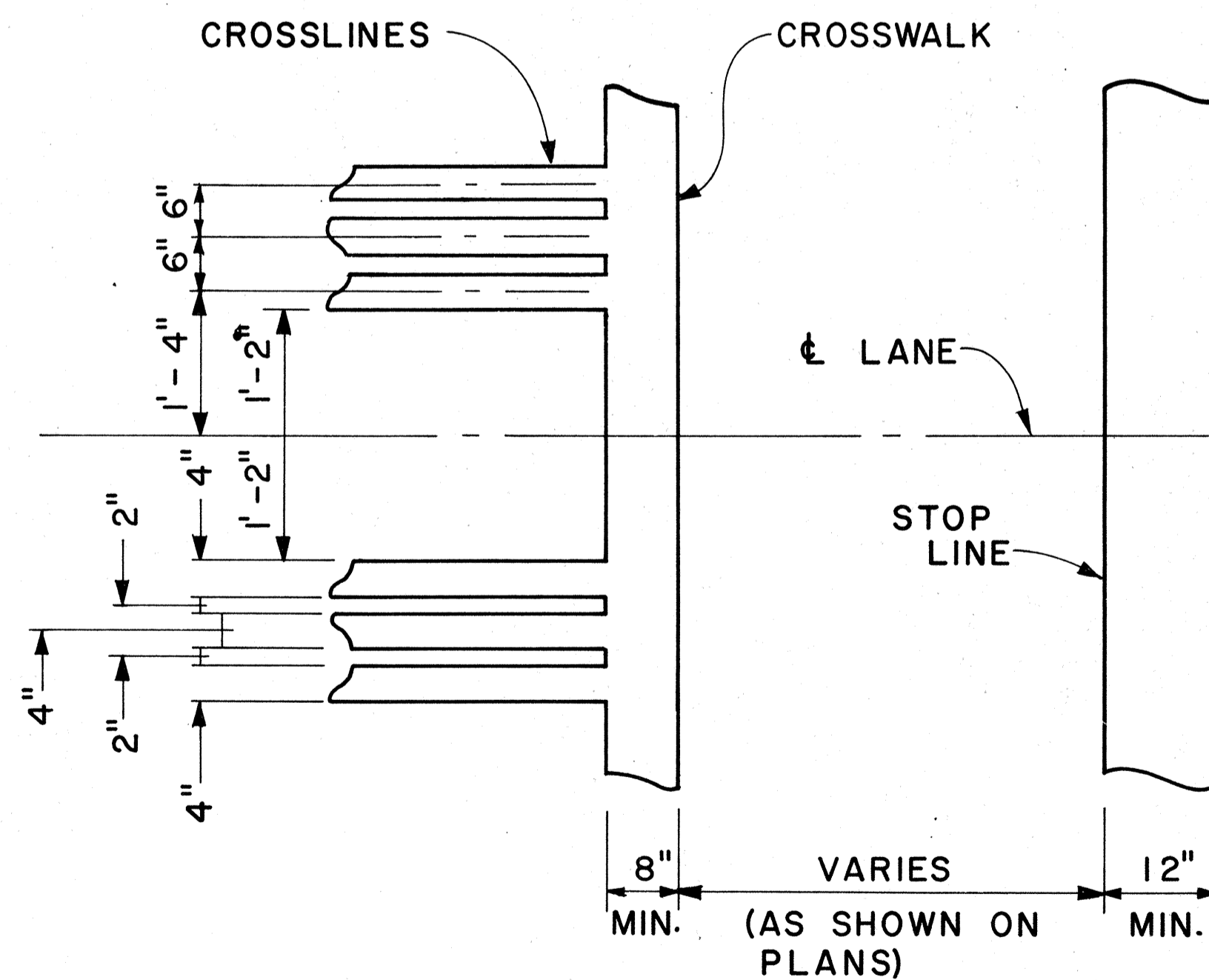


PAVEMENT ARROWS

Scale: 3/8" = 1'



PLAN



DETAIL "A"

CROSSWALK & STOP LINE

Scale: Not to Scale

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

APPROVED:
Robert S. Sakai
 ASSISTANT CHIEF, ENGINEERING
 DATE: 5/2/78

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

MISCELLANEOUS
 PAVEMENT MARKINGS

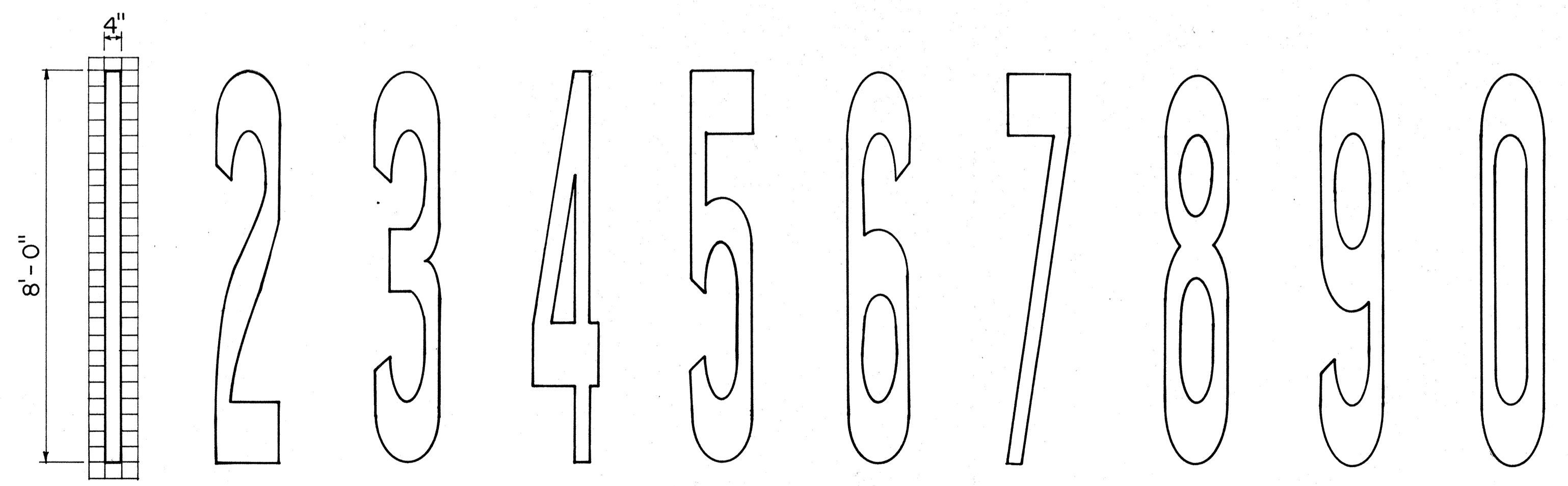
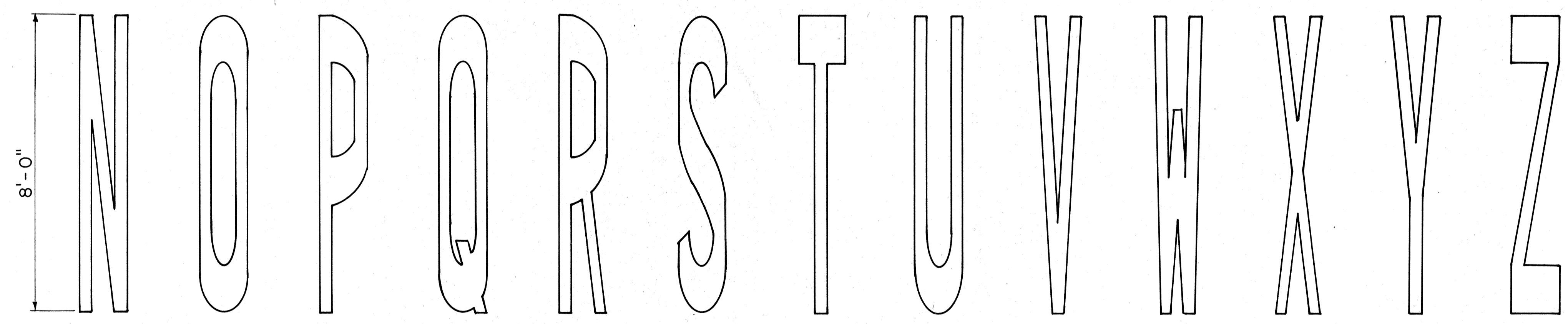
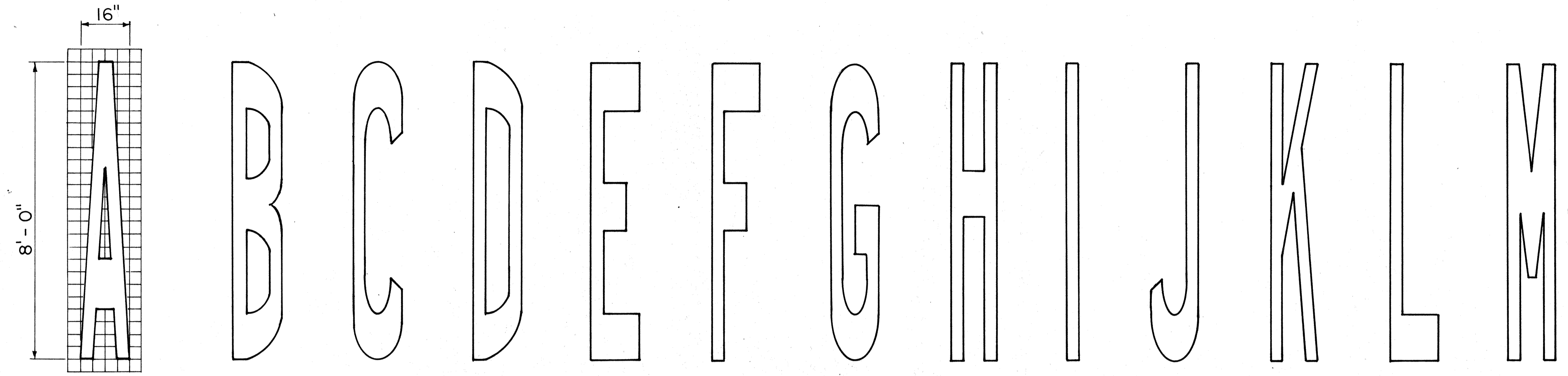
Scale: As Shown Date: March, 1978
 SHEET NO. 22 OF 24 SHEETS DT 306

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	51	58

GENERAL NOTES

1. Pavement Alphabets, Numbers and Symbols shall conform to the latest edition of the FHWA publication, "Manual on Uniform Traffic Control Devices for Streets and Highways" and its amendments.
2. The characters are based on a 24x4 (height x width) grid system to facilitate enlarging. Horizontal strokes are 4 units high and verticle strokes are 1 unit wide.
3. Unless otherwise noted, the typical height and width of each character shall respectively be 8'-0" and 1'-4". The horizontal strokes shall be 16" high and the vertical strokes shall be 4" wide.
4. All pavement messages and symbols shall be laid out by the Contractor and approved by the Engineer prior to installation.



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

APPROVAL RECOMMENDED:
Eishi Tanaka 1/28/83
 TRAFFIC ENGINEER DATE

APPROVED:
S. Fujiyama 1-31-83
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS

**PAVEMENT ALPHABETS,
 NUMBERS & SYMBOLS**

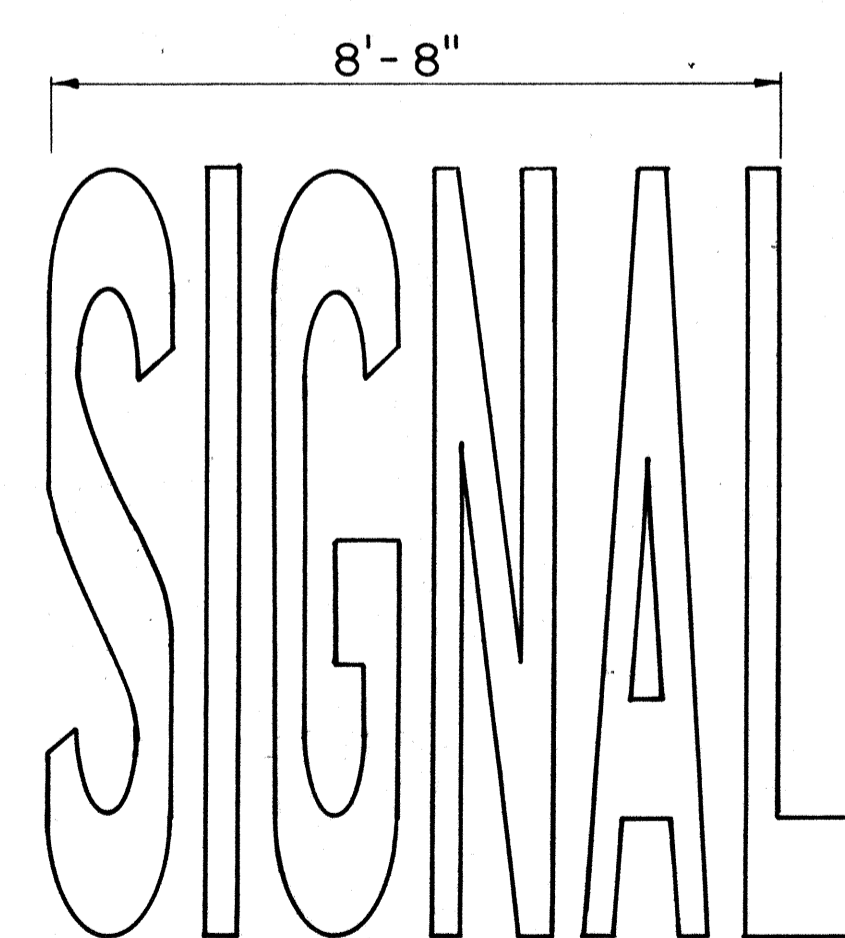
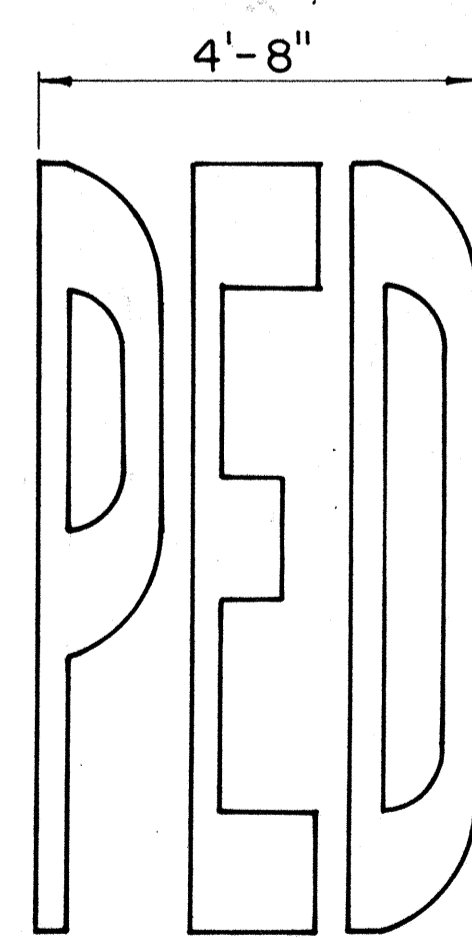
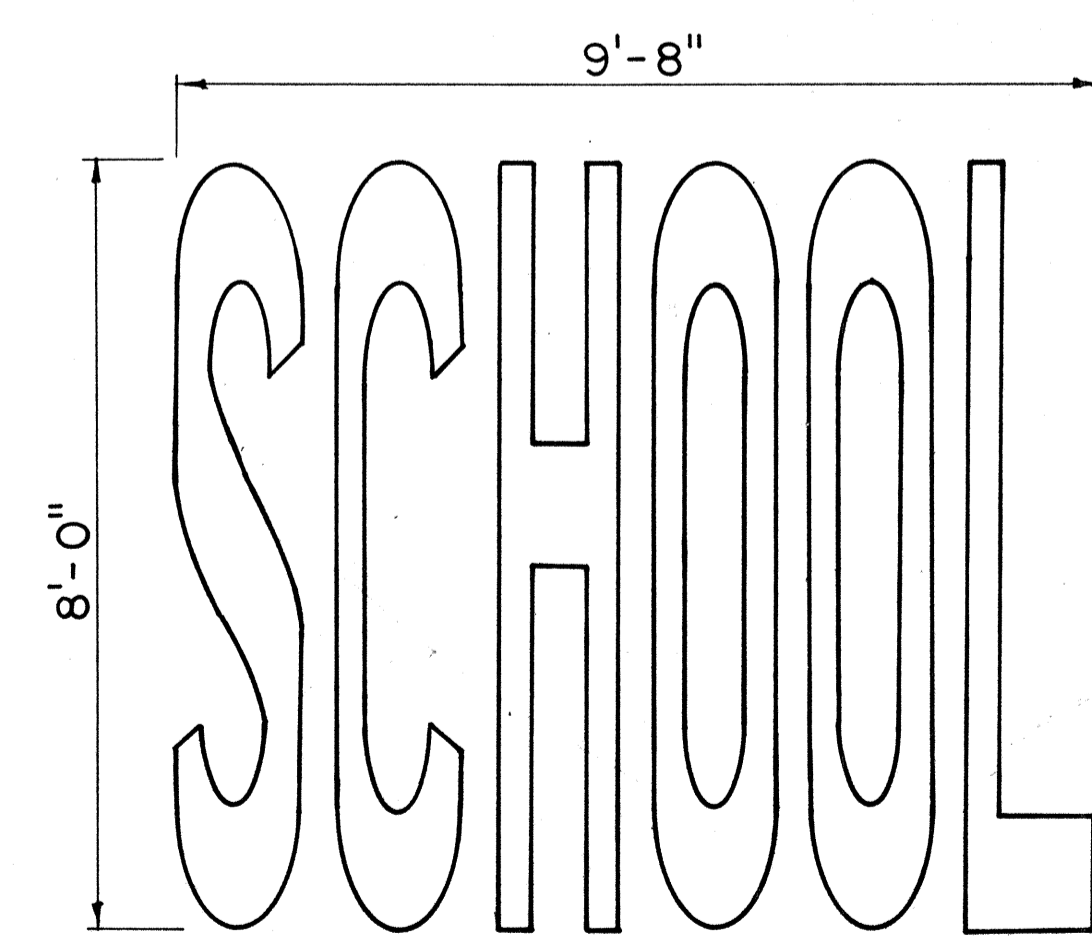
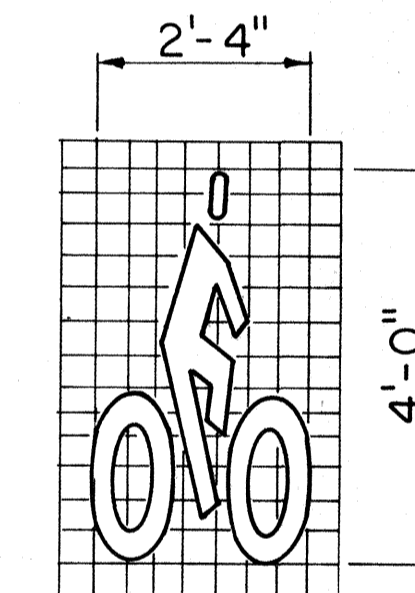
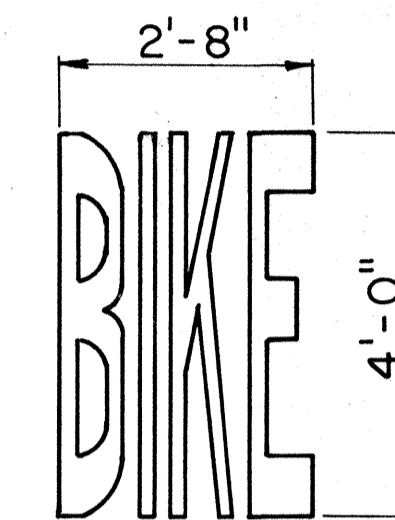
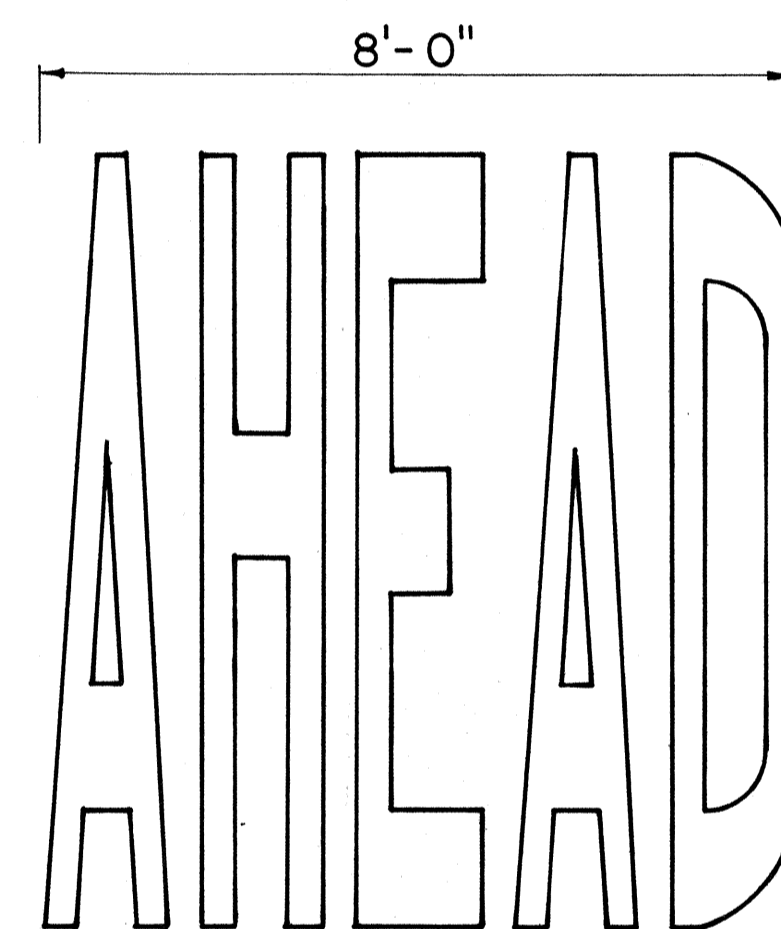
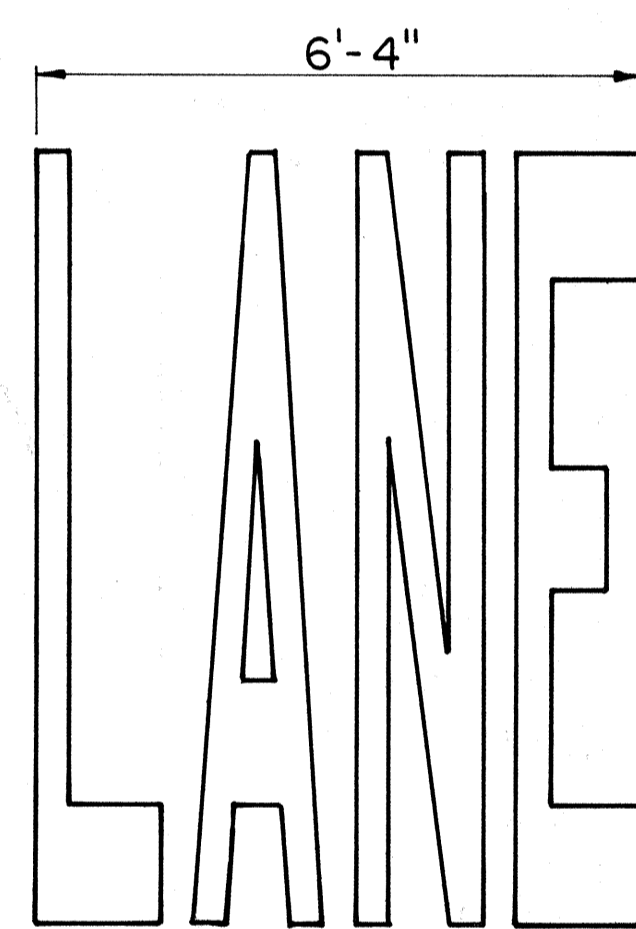
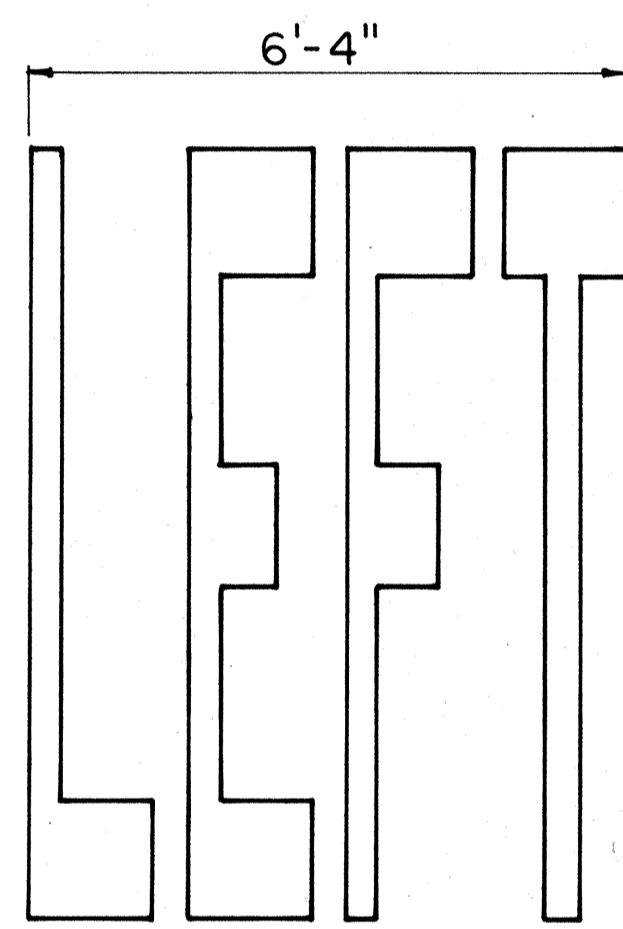
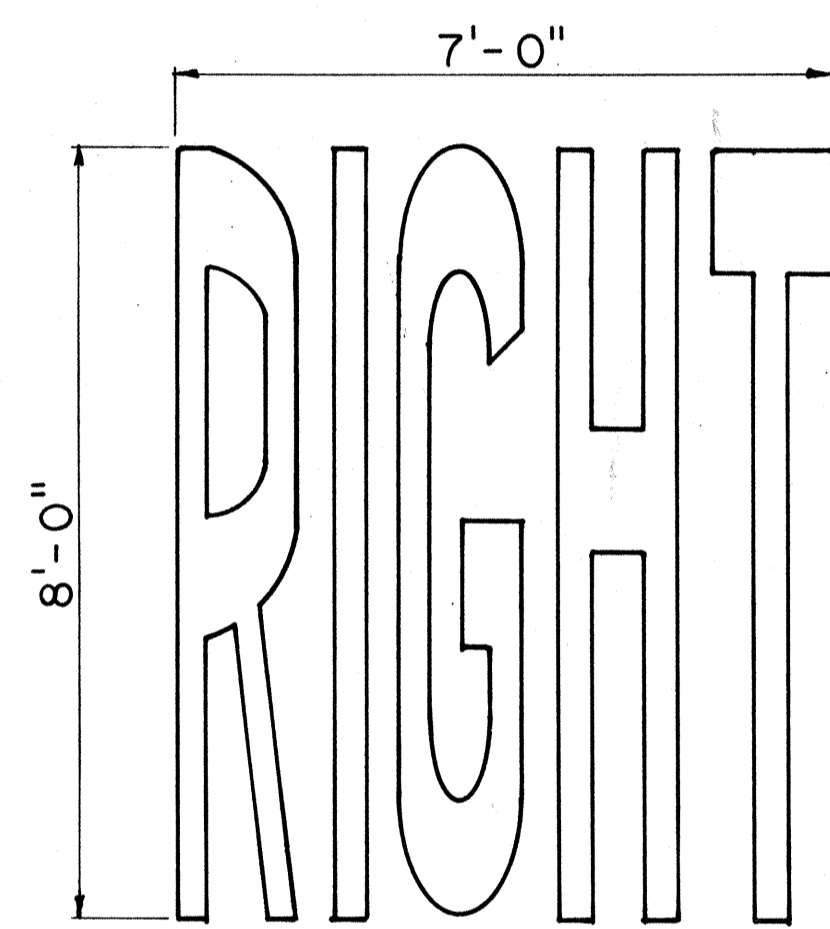
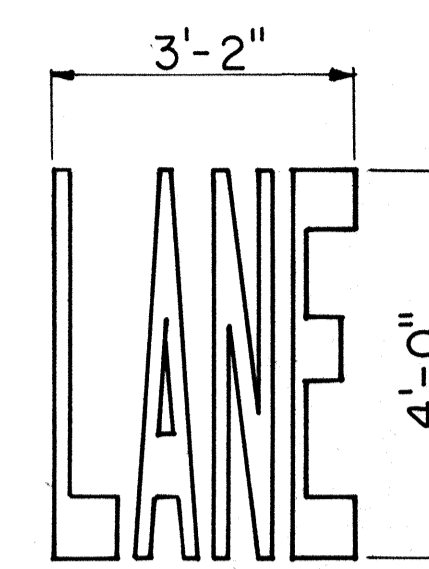
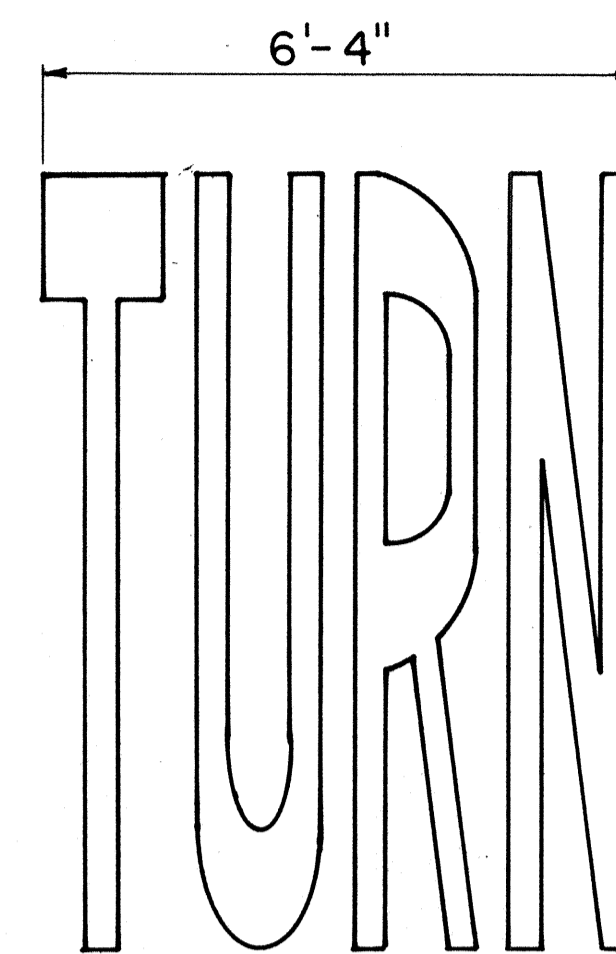
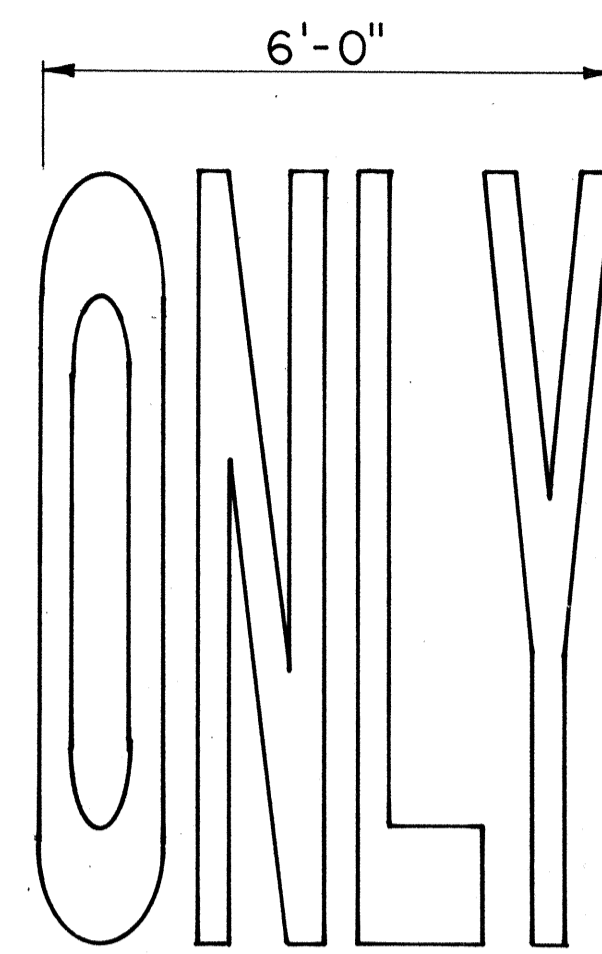
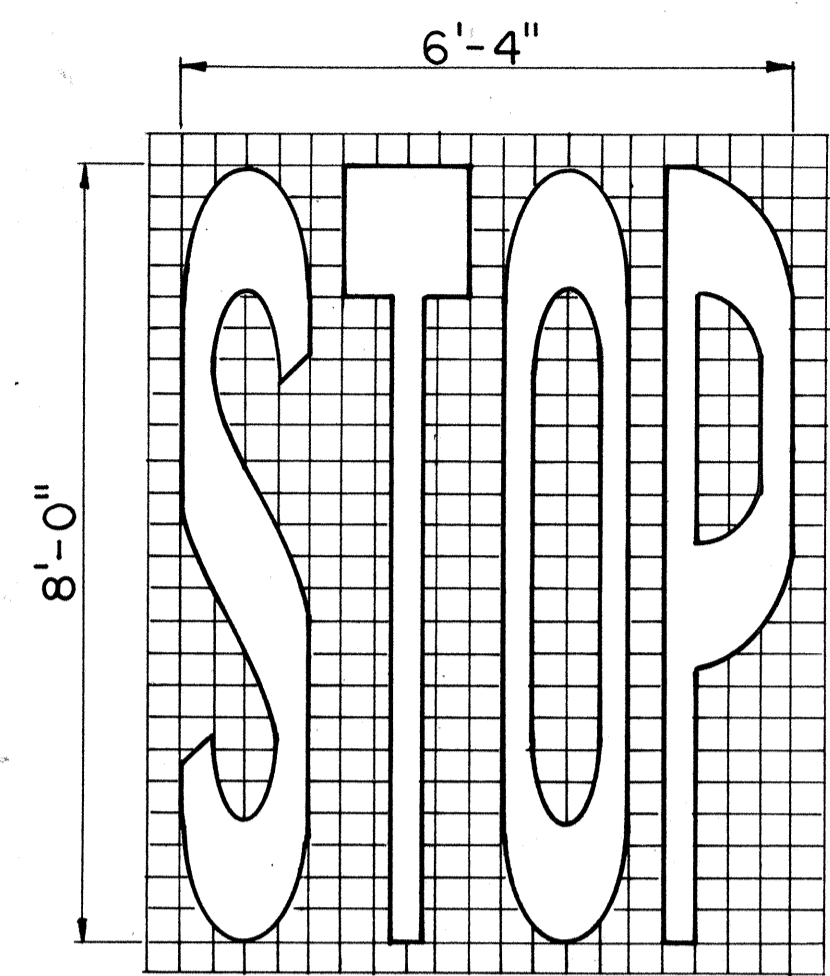
Not to Scale

SHEET No. 23 OF 24 SHEETS DT 307

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-01-86M 63A-02-86	1986	52	58

GENERAL NOTES

1. All messages not shown must be approved by the Engineer prior to installation.
2. The space between characters in a message shall be 1 grid unit unless otherwise shown or directed.
3. All pavement messages shall be white in color.



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

NO.	REVISION	APPROVED BY	DATE

APPROVAL RECOMMENDED:
Eichi Tanaka
 TRAFFIC ENGINEER
 DATE: 1/28/83

APPROVED:
S. Fujiyama
 ASSISTANT CHIEF, ENGINEERING
 DATE: 1-31-83

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STANDARD DETAILS

**PAVEMENT ALPHABETS,
 NUMBERS & SYMBOLS**

Not to Scale

SHEET No. 24 OF 24 SHEETS DT 308