

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	95A-01-87	1988	23	36

LEGEND

4 each Type A Raised Pavement Markers
Type CL Raised Pavement Markers @ 40'-0" o.c.

4 each Type J Raised Pavement Markers
Type DL Raised Pavement Markers @ 40'-0" o.c.

8" White Stripe with Type CL Raised Pavement Markers @ 20'-0" o.c. (Tape - Type I)

4" Double Solid Yellow Stripes with Type DL Raised Pavement Markers @ 20'-0" o.c. (Tape - Type I)

4" Double Solid Yellow Stripes with Type HL Raised Pavement Markers @ 20'-0" o.c. (Tape - Type II or Thermoplastic Extrusion)

4" Yellow Edge Stripe with Type HL Raised Pavement Markers @ 40'-0" o.c. (Tape - Type II or Thermoplastic Extrusion)

4" Double Solid White Stripes with Type CL Raised Pavement Markers @ 20'-0" o.c. (Tape - Type I)

Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type CL Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape - Type I)

4" White Edge Stripe (Tape - Type II or Thermoplastic Extrusion)
4" White Guide Lines (Thermoplastic Extrusion)

Transverse Median Marking (Tape - Type II or Thermoplastic Extrusion)

Transverse Shoulder Marking (Tape - Type II or Thermoplastic Extrusion)

Channelizing Island or Deceleration Lane Gore (Tape - Type II or Thermoplastic Extrusion)

Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment. (Thermoplastic Extrusion)

Pavement Arrow (Tape - Type I)

STOP Pavement Word (Tape - Type I)

Reflector Marker (RM-3)

Reflector Marker (RM-2)

Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type CL Markers @ 40'-0" o.c. (Thermoplastic Extrusion)

4 each Type J Raised Pavement Markers w/Type HL Raised Pavement Markers @ 40'-0" o.c.
Type DL Raised Pavement Markers @ 40'-0" o.c.
4" Solid Yellow Stripe (Tape - Type I)

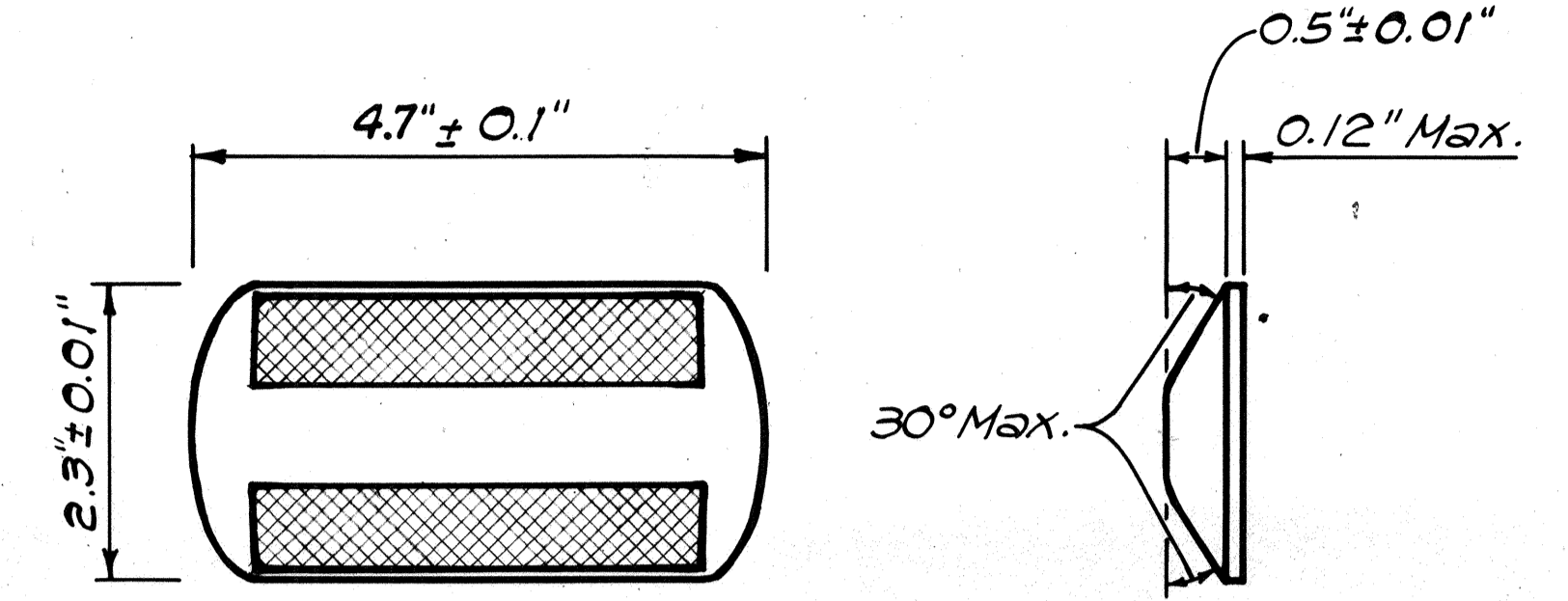
3' 12' 3' 12' 3' 12' 3' 6' 8" Solid White Stripe w/Type CL Markers @ 20' o.c. as Shown on Plans. (Tape - Type I)
30' (TYP.) 8" White Stripe (TYP.) (Tape - Type I) To Gore

LANE DROP MARKING

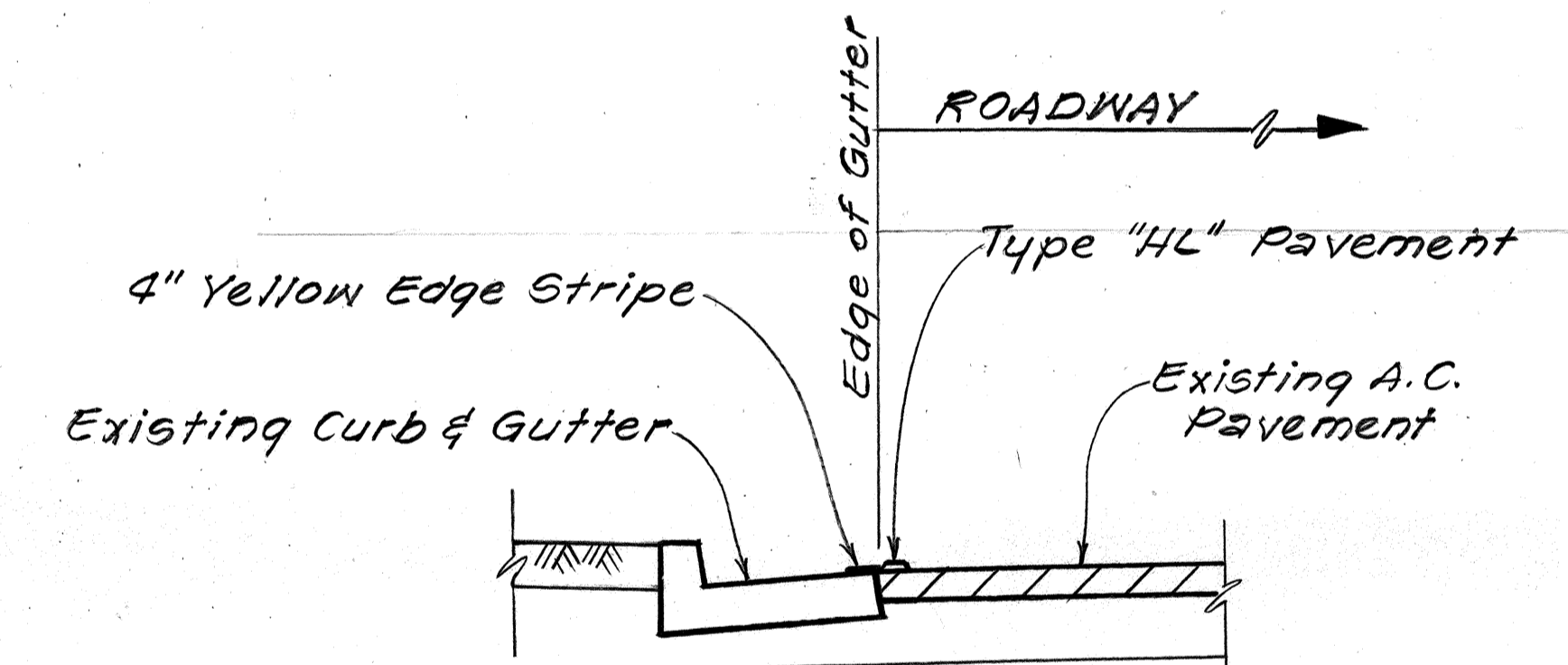
Scale: 1" = 10'

NOTES

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- 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 installed within crosswalks.
- Details of Type C, Type D and Type H Markers on Standard Plan Nos. TE-30, TE-31 and TE-32 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.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- Existing signs that are to be replaced shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
- Backing for all new Regulatory and Warning Signs shall not be spliced.
- 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.
- All objects (utility poles or trees) that are within the State highway right-of-way and within 30 feet of the roadway edge of pavement, except in curbed medians, shall be marked with Type II Object Marker and/or as directed by the Engineer.
- All pavement striping shall be as noted on the legend and/or plans.
- All preformed pavement marking tapes over existing pavement shall be applied with an approved liquid contact cement.



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



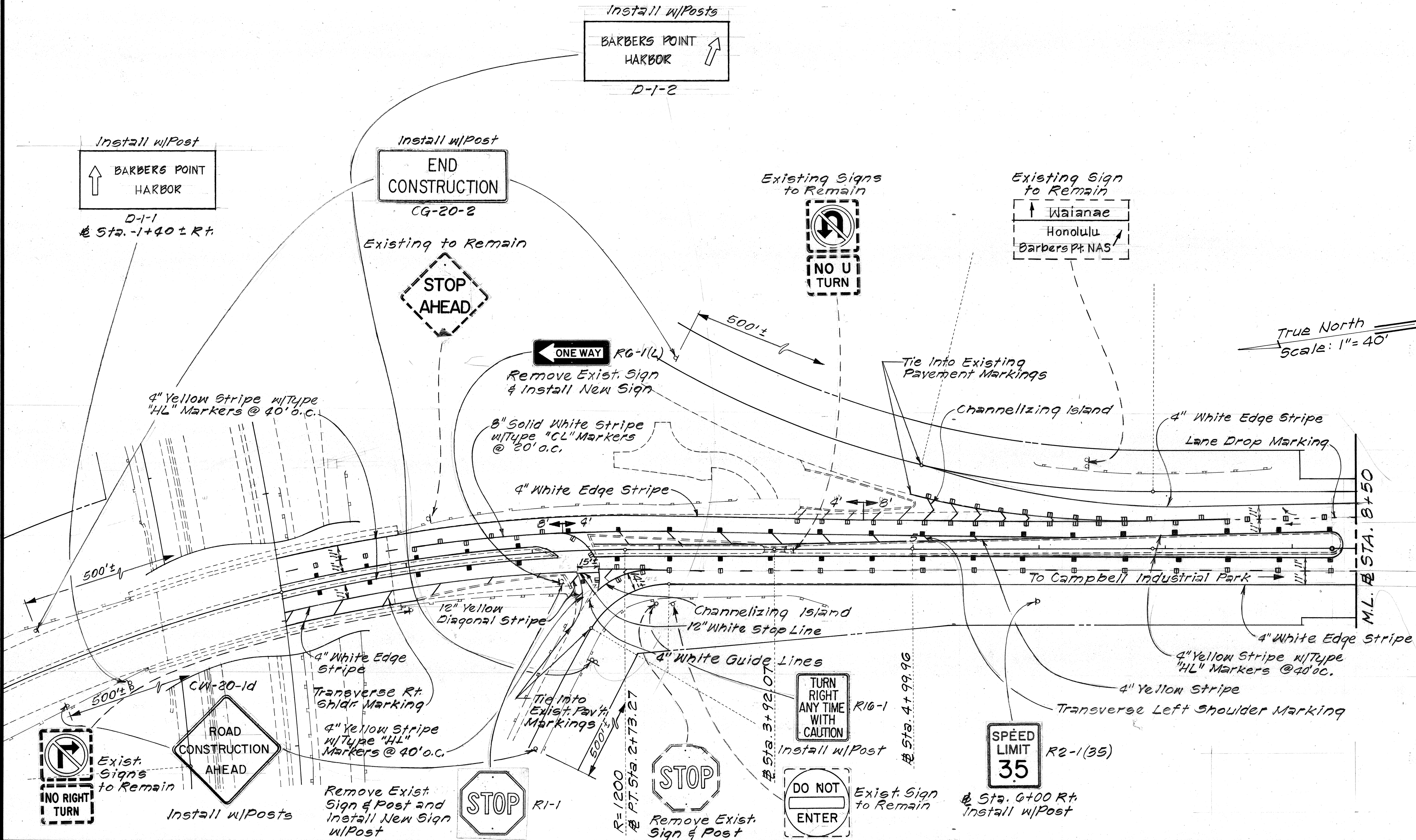
TYPICAL EDGE OF GUTTER STRIPING

Scale: 1/2" = 1'-0"

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
**PAVEMENT MARKING
LEGEND, DETAIL & NOTES**
KALAELOA BLVD. & MALAKOLE ST.
IMPROVEMENTS
H-1 TO BARBERS PT. HARBOR
PROJ. No. 95A-01-87
Scale: 1" = 40' Date: Feb, 1988
SHEET No. 71 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	95A-01-87	1988	24	36



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

KALAELOA BLVD & MALAKOLE ST.
IMPROVEMENTS
H-1 TO BARBERS PT. HARBOR
PROJ. No. 95A-01-87

Scale: 1" = 40' Date: Feb., 1988
SHEET No. 24 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	95A-01-87	1988	25	36

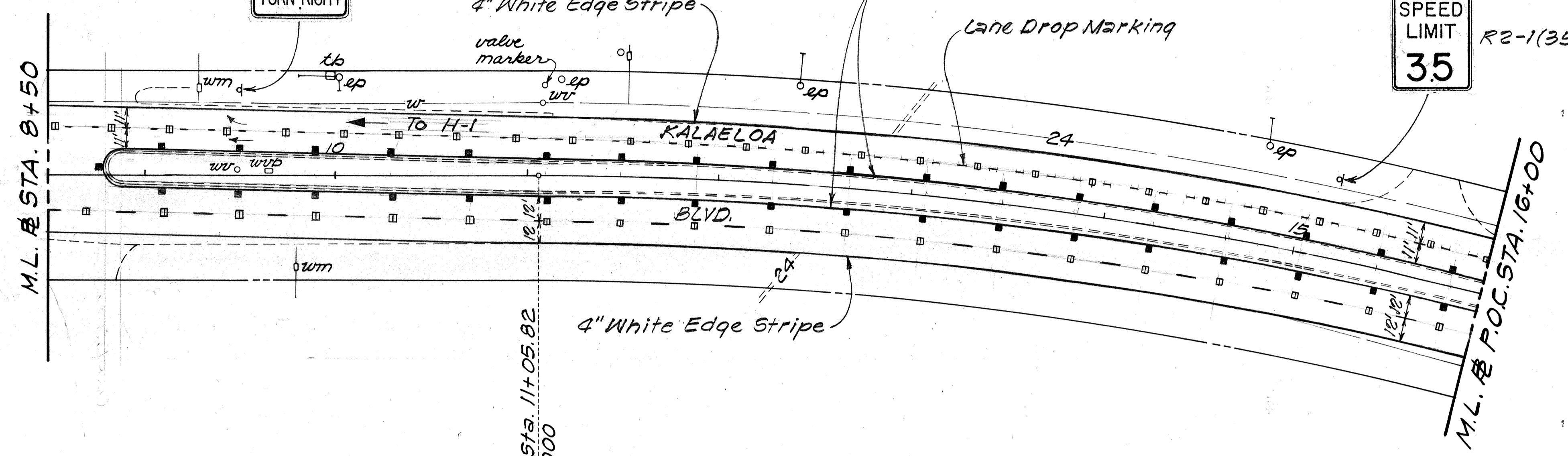
True North
Scale: 1" = 40'

Remove Existing Sign & Post and Install New Sign w/Post

RIGHT LANE MUST TURN RIGHT R3-7(R)

Remove Existing Sign & Post and Install New Sign w/Post

SPEED LIMIT 35 R2-1(35)

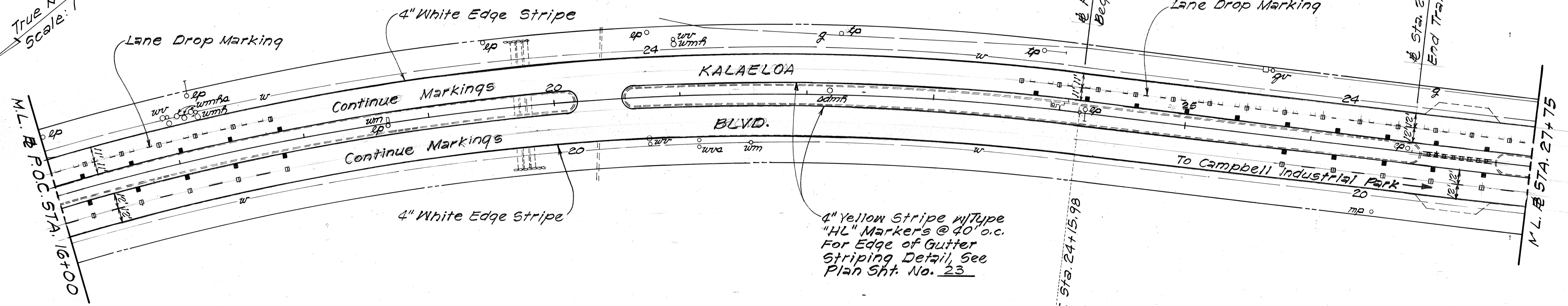


P.C. Sta. 11+05.82
R = 2000

P.T. Sta. 24+15.08
Begin Transition

Sta. 26+80
End Transition

True North
Scale: 1" = 40'



4" Yellow Stripe w/Type "HL" Markers @ 40' o.c. For Edge of Gutter Striping Detail, see Plan Sht. No. 23

P.T. Sta. 24+15.98

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

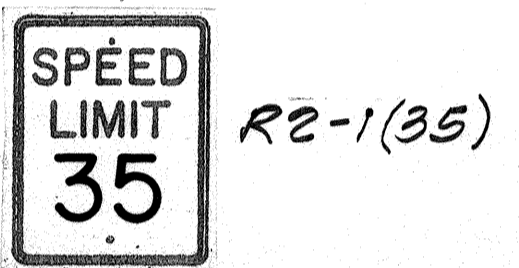
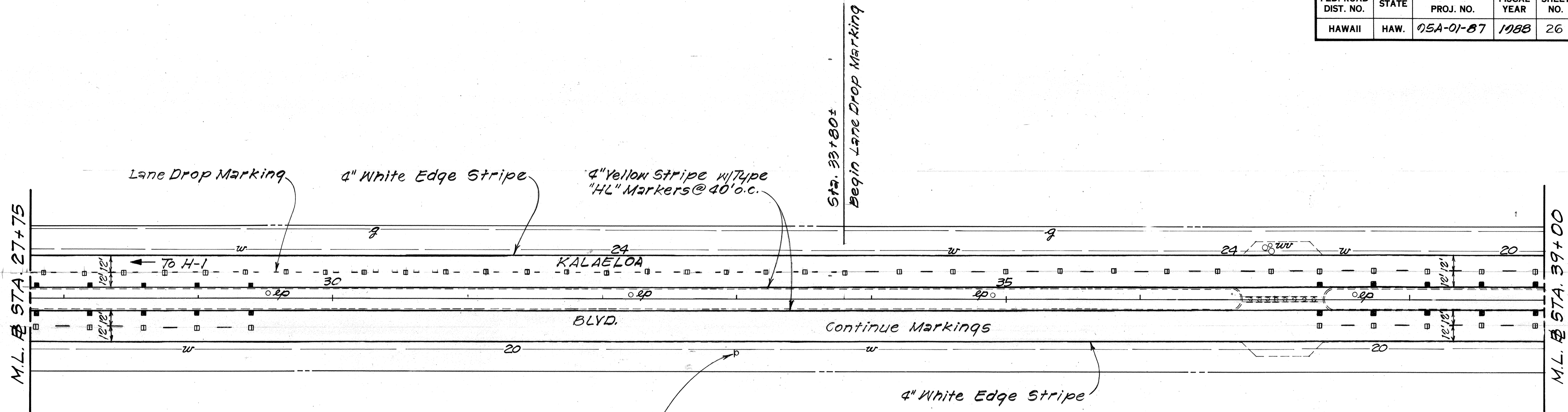
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

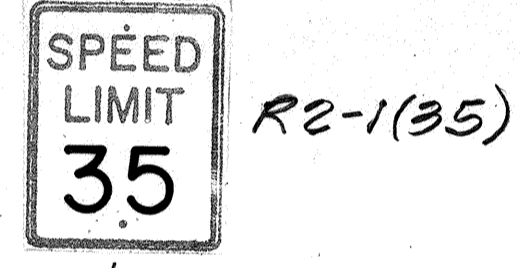
KALAELOA BLVD. & MALAKOLE ST. IMPROVEMENTS
H-1 TO BARBERS PT. HARBOR
PROJ. No. 95A-01-87

Scale: 1" = 40' Date: Feb., 1988
SHEET No. 73 OF 9 SHEETS

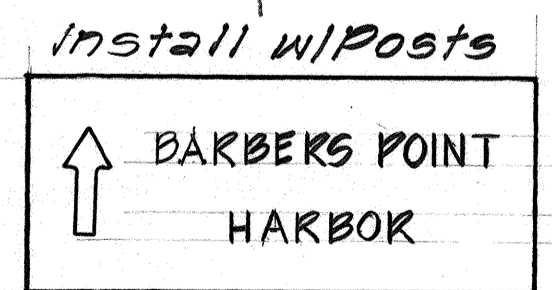
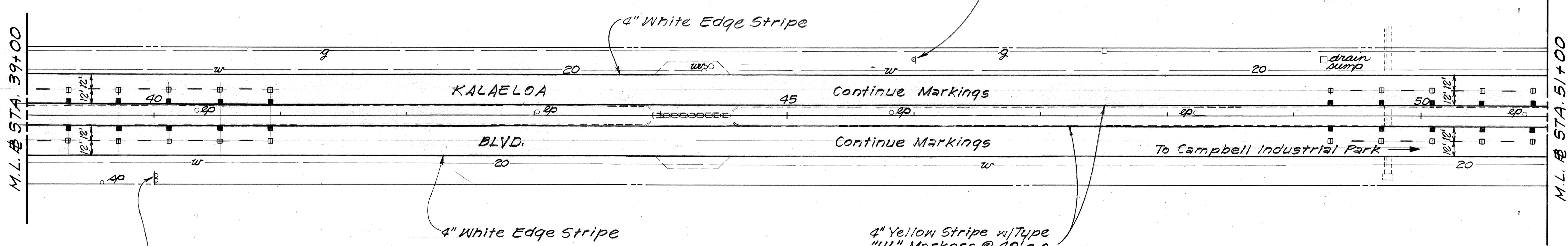
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	05A-01-87	1988	26	36



Remove Existing Sign & Post and Install New Sign w/Post



Install w/Post



D-1-1
Sta. 40+00± Rt.

True North
Scale: 1"=40'

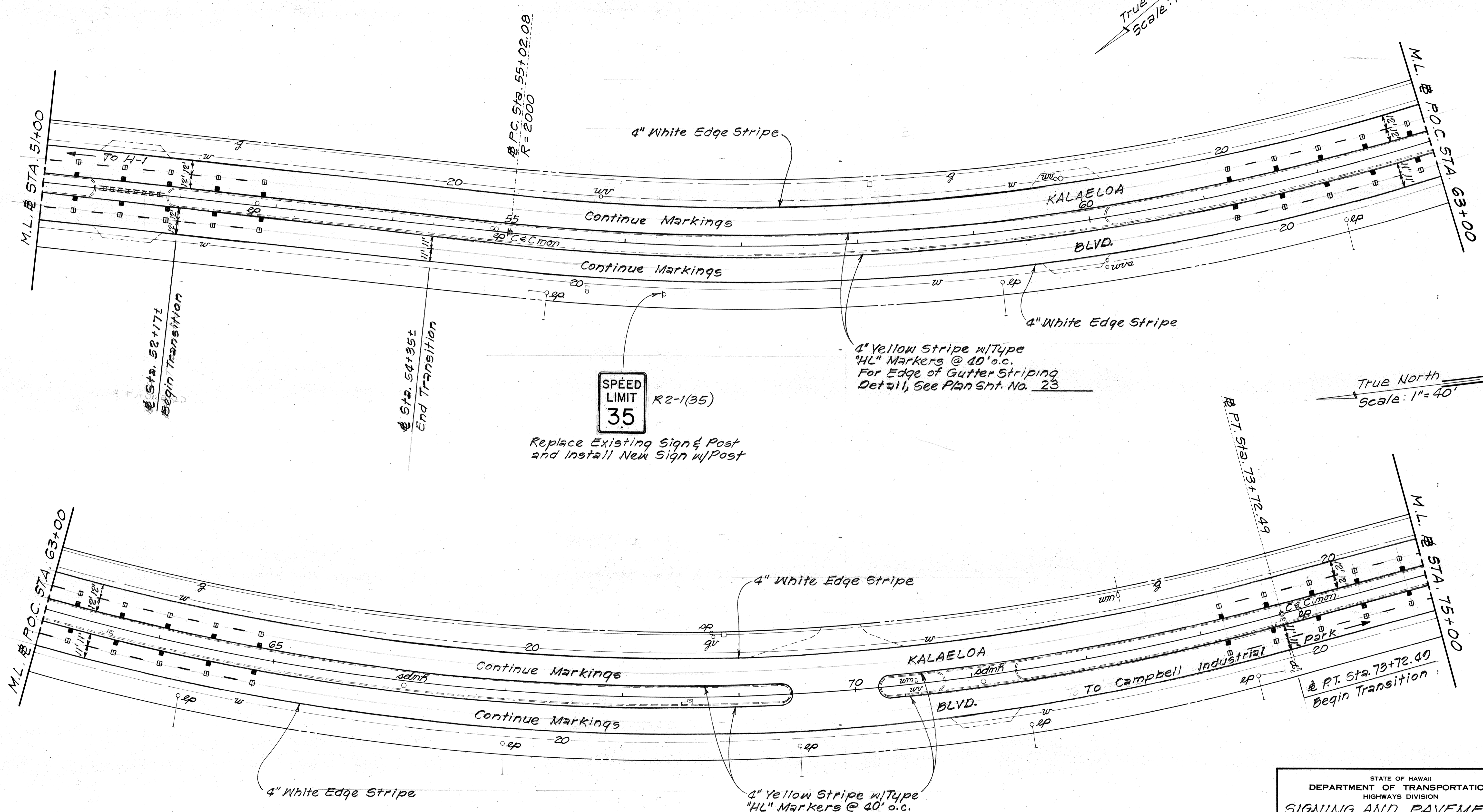
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
KALAELOA BLVD. & MALAKOLE ST.
IMPROVEMENTS
H-1 TO BARBERS PT. HARBOR
PROJ. No. 05A-01-87
Scale: 1"=40' Date: Feb. 1988
SHEET No. 74 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	05A-01-87	1988	27	36

True North
Scale: 1"=40'

True North
Scale: 1"=40'



SPEED LIMIT
35
R2-1(35)

Replace Existing Sign & Post
and Install New Sign w/Post

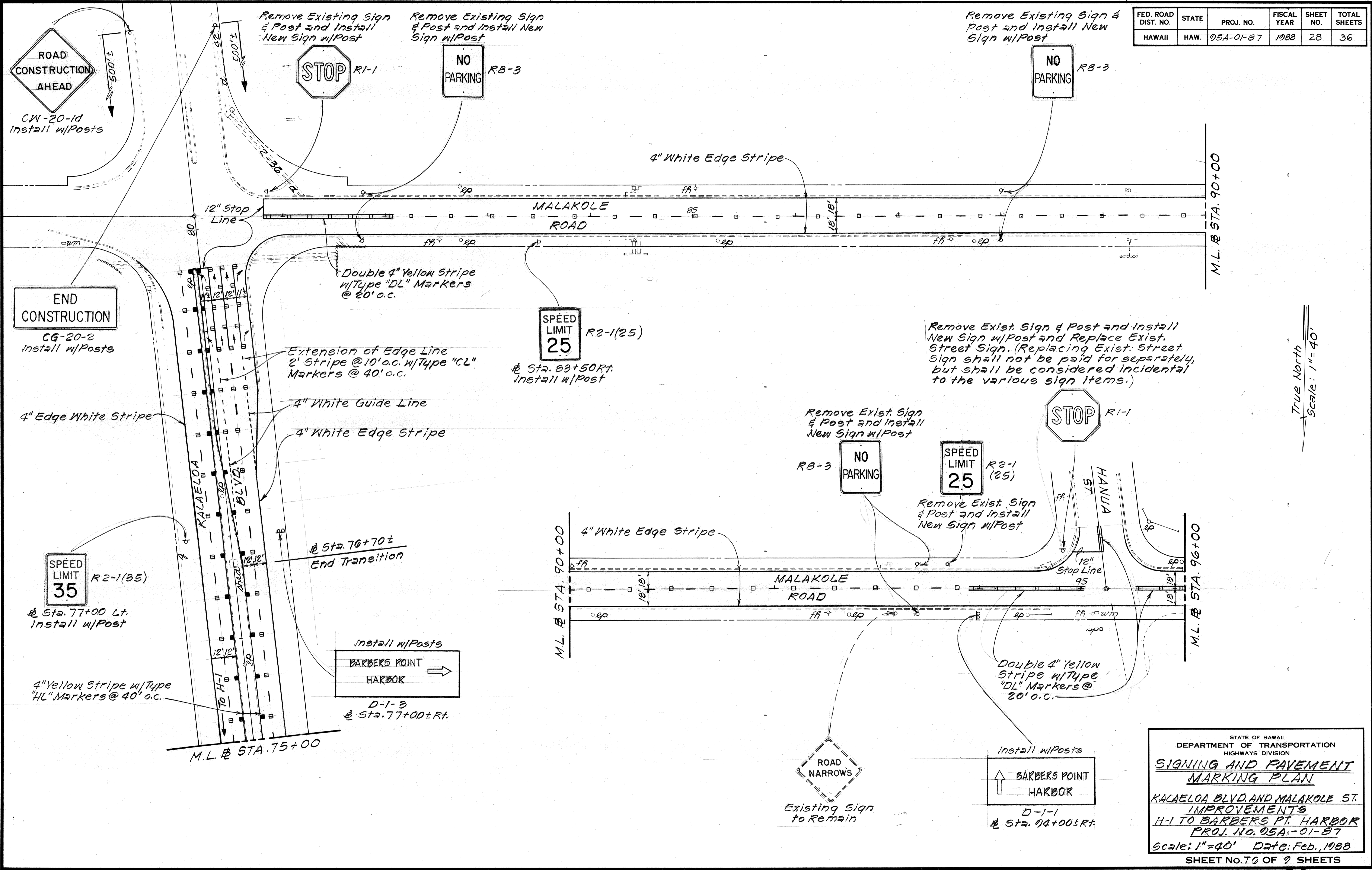
4" Yellow Stripe w/Type
"HL" Markers @ 40' o.c.
For Edge of Gutter Striping
Detail, See Plan Sht. No. 23

4" Yellow Stripe w/Type
"HL" Markers @ 40' o.c.
For Edge of Gutter
Striping Detail, See
Plan Sht. No. 23

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**
KALAELOA BLVD. & MALAKOLE ST.
IMPROVEMENTS
H-1 TO BARBERS PT. HARBOR
PROJ. No. 05A-01-87
Scale: 1"=40' Date: Feb., 1988
SHEET No. 75 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	05A-01-87	1988	28	36



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

True North
Scale: 1" = 40'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

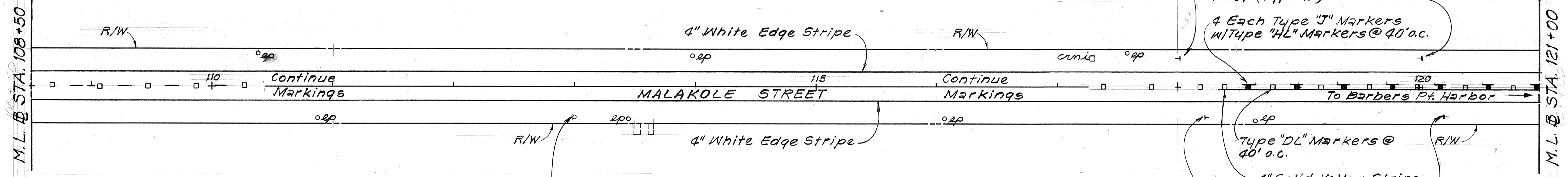
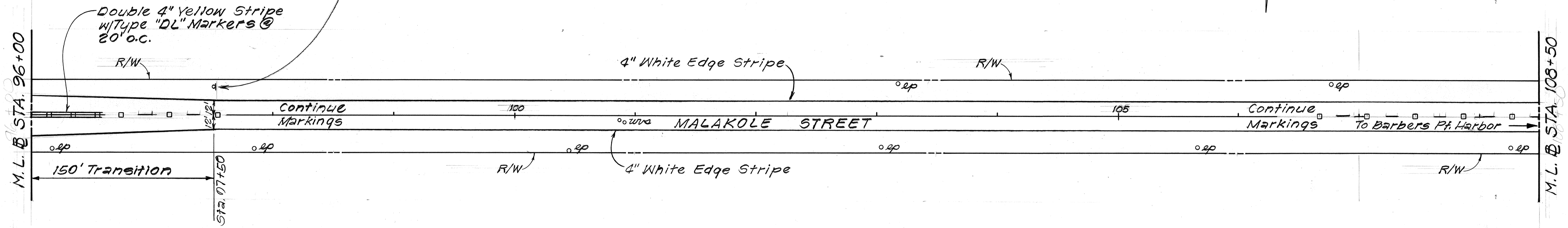
KALAELOA BLVD. AND MALAKOLE ST. IMPROVEMENTS
H-1 TO BARBERS PT. HARBOR
PROJ. NO. 05A-01-87
Scale: 1"=40' DATE: Feb. 1988
SHEET No. 28 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	05A-01-87	1988	29	36

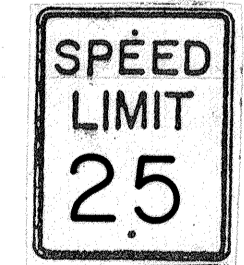
Remove Existing Sign & Post and Install New Sign w/Post



True North
Scale: 1"=40'



Install Reflector Markers (RM-2) w/Flexible Delineator Post (Type B)
 4 Each Type "J" Markers w/Type "HL" Markers @ 40' o.c.
 Type "DL" Markers @ 40' o.c.
 4" Solid Yellow Stripe
 Install Reflector Markers (RM-2) w/Flexible Delineator Post (Type B)



25
 R2-1(25)
 @ Sta. 113+00R+
 Install w/Post

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
TRACED BY	_____
DRAWN BY	_____
DATE	_____
NO.	_____

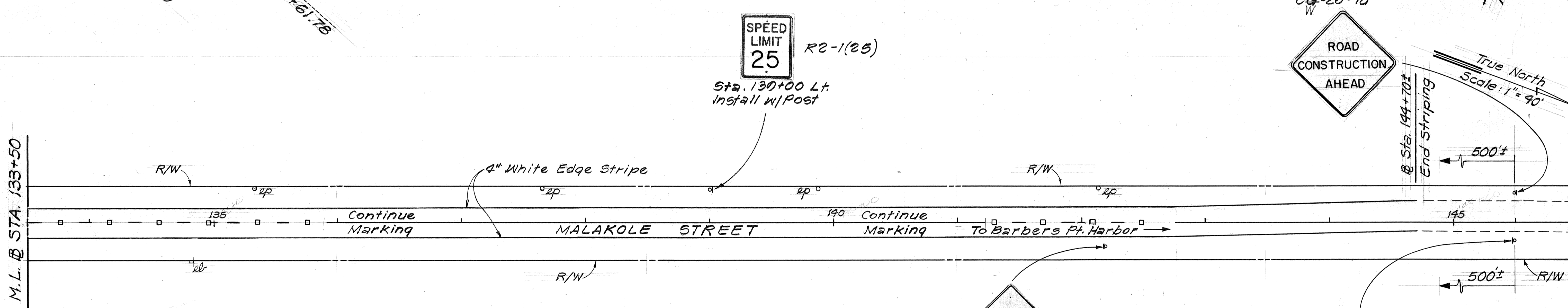
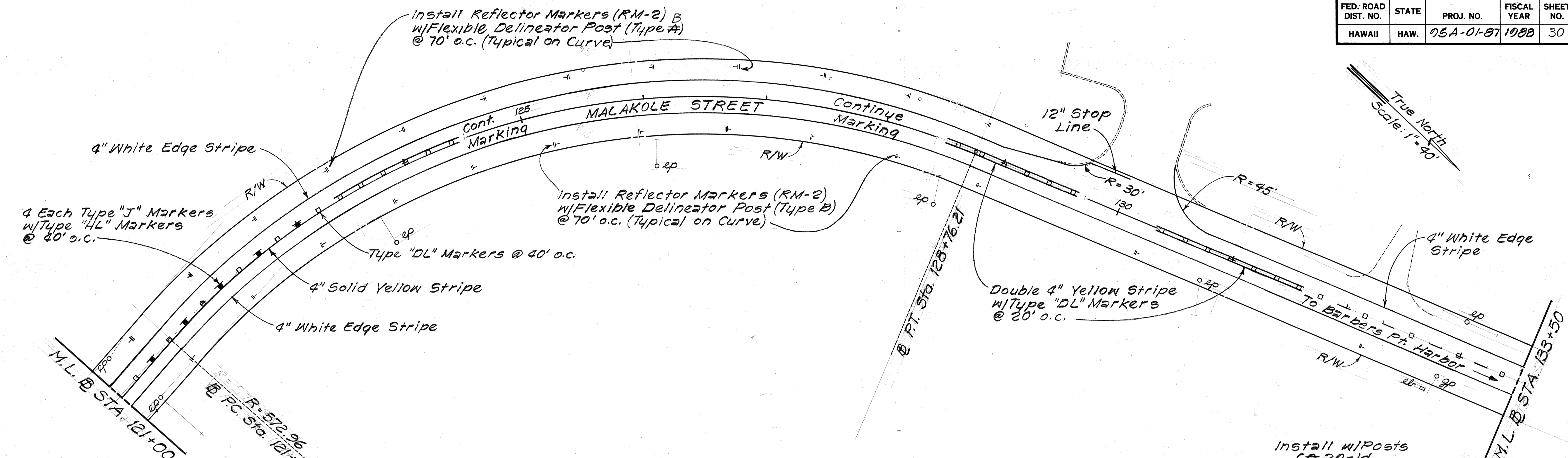
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

KALAELOA BLVD. & MALAKOLE ST.
 IMPROVEMENTS
 HI TO BARBERS PT. HARBOR
 PROJ. No. 05A-01-87
 Scale: 1"=40' Date: Feb. 1988

SHEET No. 7 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	05A-01-87	1988	30	36



DATE	_____
SURVEY PLOTTED BY	_____
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
KALAELOA BLVD. & MALAKOLE ST.
IMPROVEMENTS
H-1 TO BARBERS PT. HARBOR
PROJ. No. 05A-01-87
Scale: 1"=40' Date: Feb, 1988
SHEET No. 78 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	95A-01-87	1988	31	36

CONSTRUCTION SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY	
		W/O POST	W/POST
CG-20-2	END CONSTRUCTION		4
CW-20-1d	ROAD CONSTRUCTION AHEAD		4
TOTAL			8

GENERAL NOTES

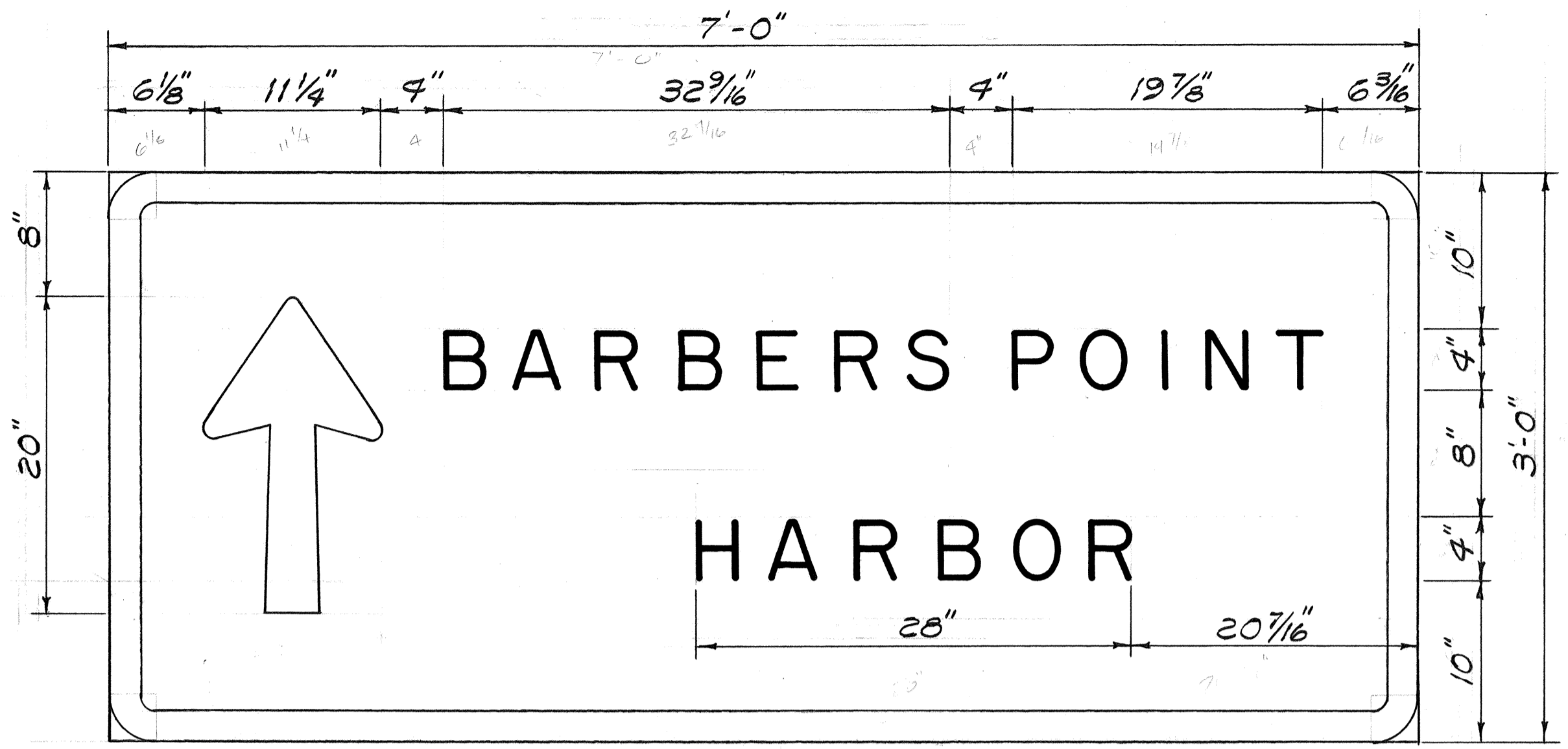
- Signs shall conform to the latest editions & amendments of the following FHWA publications
 - "Manual on Uniform Traffic Control Devices for Streets & Highways" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
- Letter Size:
 - When letters are all uppercase use Series "E"
 - When initial uppercase letter is used in conjunction w/lowercase letters, use Series "E(M)" for uppercase letter.
- Borders shall be 2" wide unless otherwise noted. Corner radii shall be in accordance w/Standard Plan TE-14.
- New sign panels shall be laminated aluminum or extruded aluminum.
- Overlays shall be as specified in Section 621 of the Special Provisions.

PAVEMENT MARKING SUMMARY

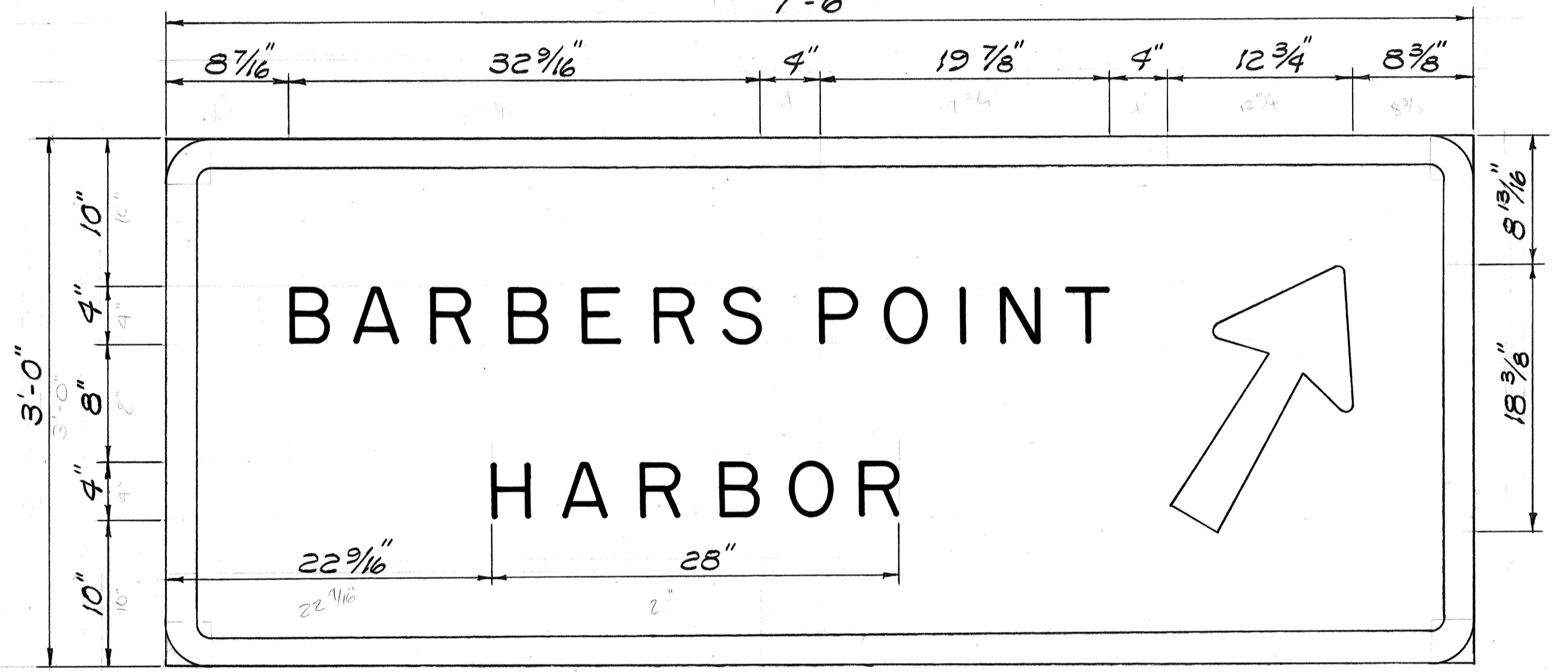
DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A	1,300 EA.
TYPE CL	475 EA.
TYPE DL	200 EA.
TYPE HL	425 EA.
TYPE J	500 EA.
TAPE - TYPE I	
4-INCH PAVEMENT STRIPE (YELLOW)	525 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	950 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW)	1,250 L.F.
PAVEMENT ARROWS	12 EA.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	28,750 L.F.
4-INCH PAVEMENT STRIPE (YELLOW)	16,150 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	700 L.F.
12-INCH PAVEMENT STRIPE (WHITE)	150 L.F.
12-INCH PAVEMENT STRIPE (YELLOW)	110 L.F.
THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	100 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	70 L.F.
12-INCH PAVEMENT STRIPE (WHITE)	65 L.F.

TRAFFIC SIGN SUMMARY

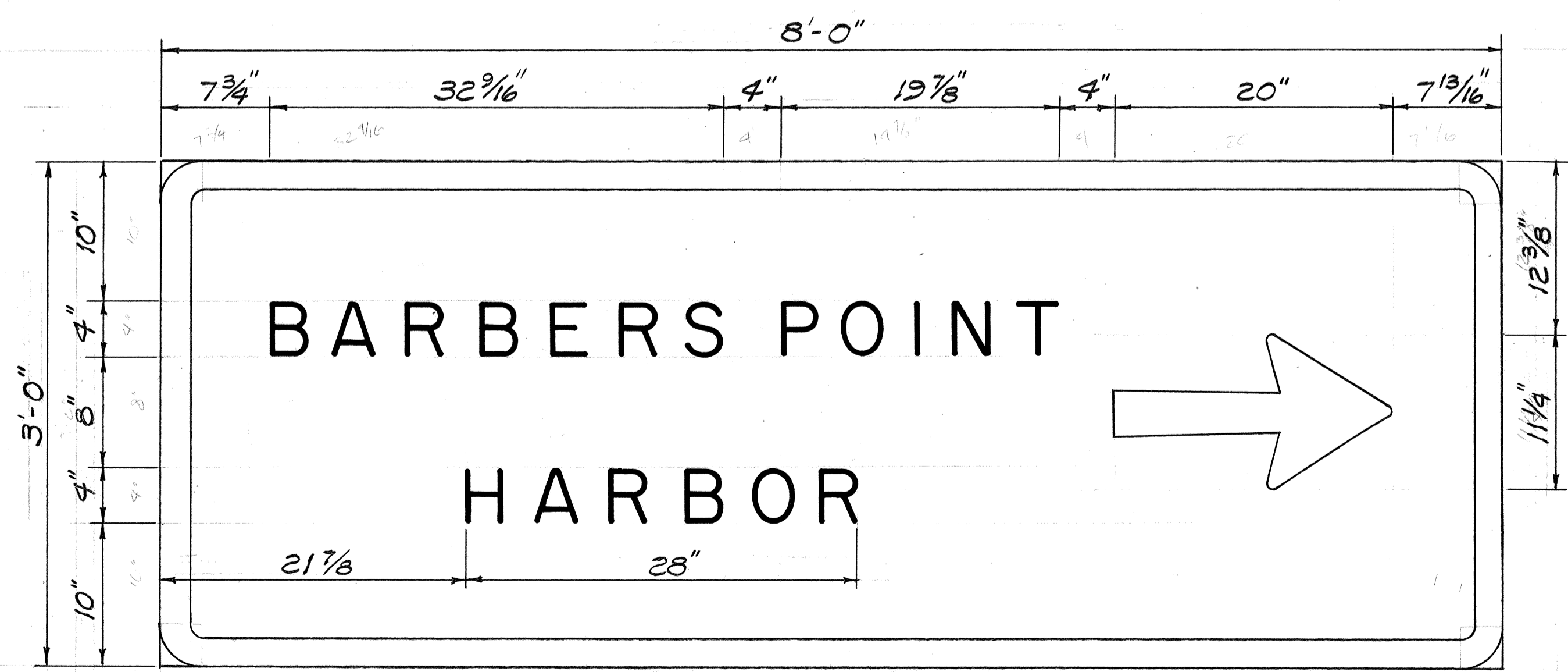
SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POST	W/O POST
R1-1	STOP	3			
R2-1(25)	SPEED LIMIT 25	4			
R2-1(35)	SPEED LIMIT 35	6			
R3-7(R)	RIGHT LANE MUST TURN RIGHT	1			
R6-1(L)	ONE WAY		1		
R8-3	NO PARKING	6			
R16-1	TURN RIGHT ANYTIME WITH CAUTION	1			
W8-6	TRUCK CROSSING	1			
W8-3	PAVEMENT ENDS	1			



SIGN D-1-1
Scale: 1/2" = 1'-0"
7'-6"



SIGN D-1-2
Scale: 1/2" = 1'-0"
8'-0"



SIGN D-1-3
Scale: 1/2" = 1'-0"

DATE	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PANEL LAYOUTS &
MISCELLANEOUS SUMMARIES**

KALAELOA BLVD. & MALAKOLE RD.
IMPROVEMENTS
H-1 TO BARBERS PT. HARBOR
PROJECT NO. 95A-01-87
Scale: As Shown Date: Feb. 1988

SHEET NO. T9 OF 9 SHEETS