

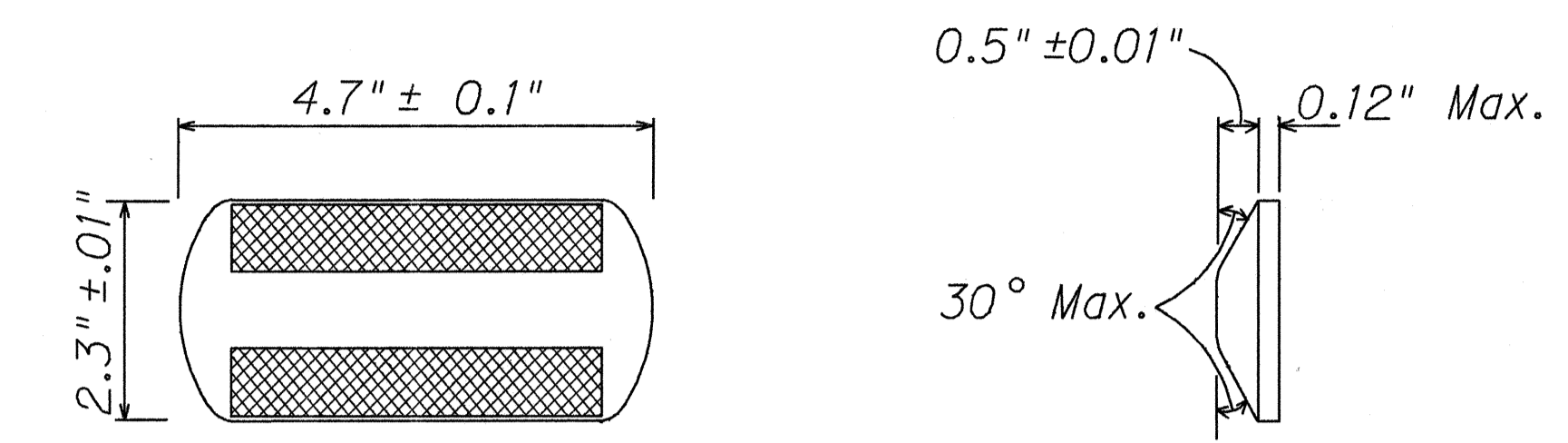
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	24	44

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 or Thermoplastic Extrusion)
- 4" Double Solid Yellow with Type DL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 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 or Thermoplastic Extrusion)
- 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 or Thermoplastic Extrusion)
- 4" or 8" White Edge Stripe with Type CL Raised Pavement Markers @ 40'-0" o.c. (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 or Thermoplastic Extrusion)
- Pavement Word (Tape, Type I or Thermoplastic Extrusion)
- 4 Each Type J Raised Pavement Markers
Type DL Raised Pavement Markers @ 40'-0" o.c.
Type HL Raised Pavement Markers (Reflective Surface facing no-passing direction)
- 4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
- Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type CL Markers @ 40'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)

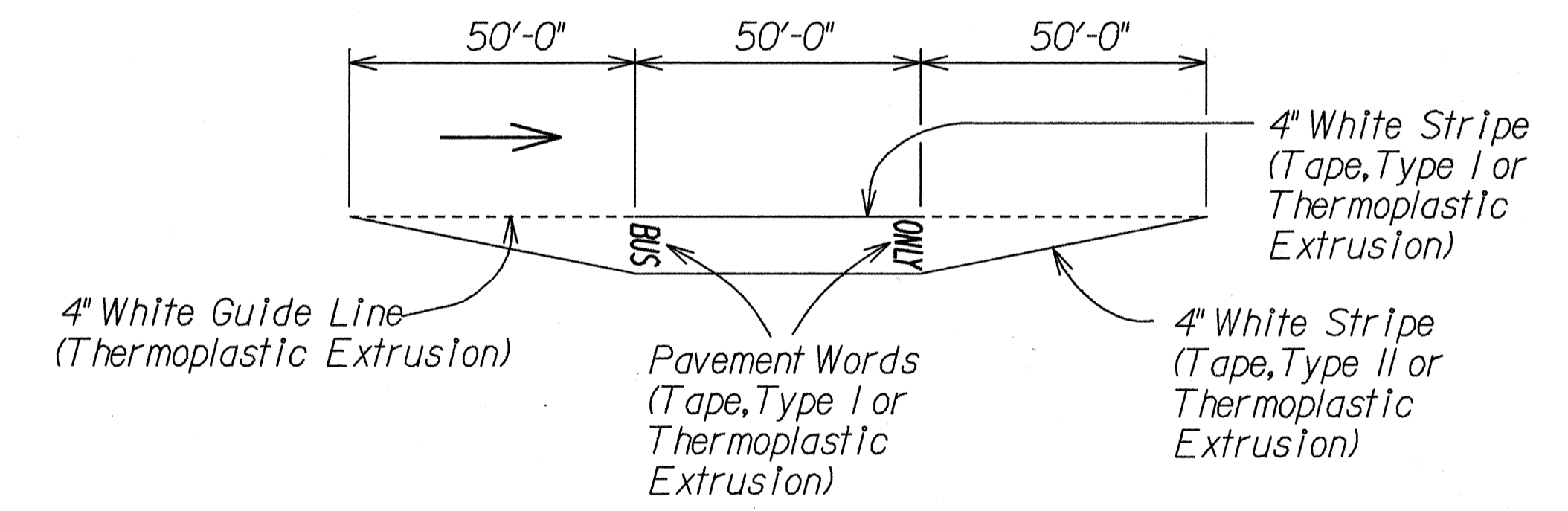
NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. 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.
3. Raised pavement markers shall not be installed within crosswalks.
4. 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.
5. Final locations of all signs shall be approved by the Engineer prior to any installation work.
6. 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.
7. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
8. All pavement striping shall be as noted on the Legend or plans.
9. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.

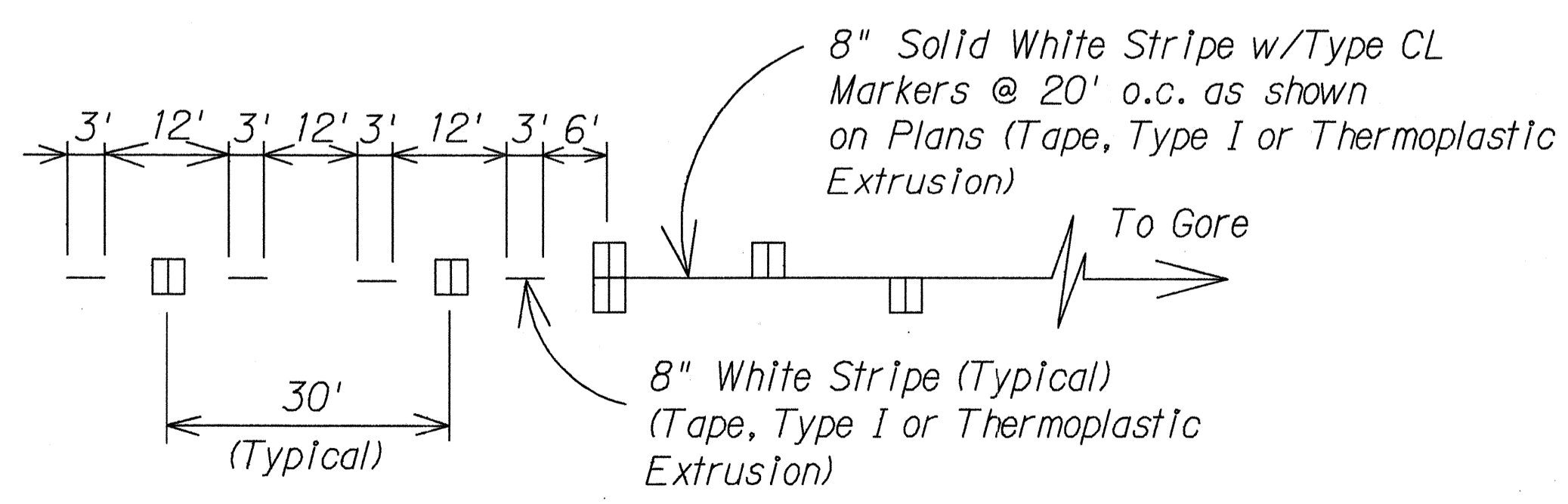


TYPE CL
Red-Clear Reflective Marker
or
TYPE DL
Two-Way Yellow Reflective Marker
or
TYPE HL
One-Way Yellow Reflective Marker

RAISED PAVEMENT MARKER DETAILS
Not to Scale



TYPICAL BUS BAY STRIPING
Not to Scale



LANE DROP MARKING
Not to Scale

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

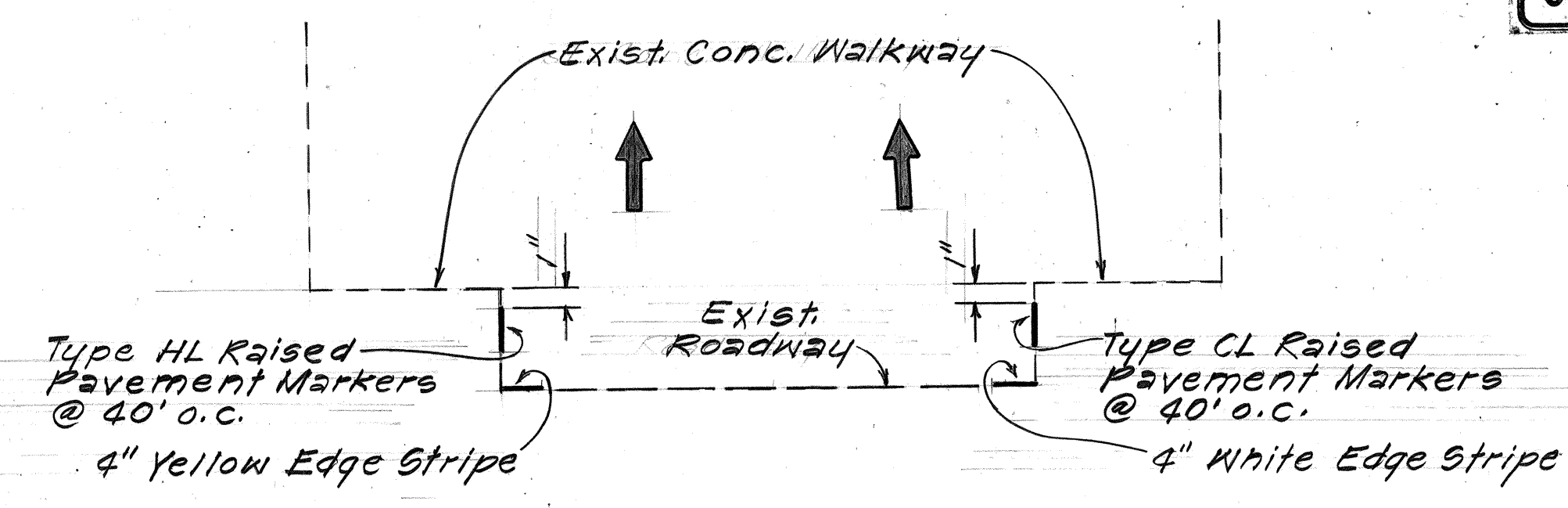
PAVEMENT MARKING
LEGEND, DETAILS & NOTES

PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
Project No. 61ABC-01-90M

Date: May, 1990

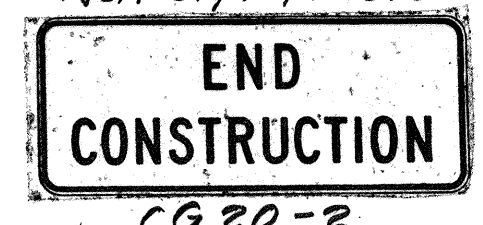
SHEET No. T1 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-90M	1990	25	44

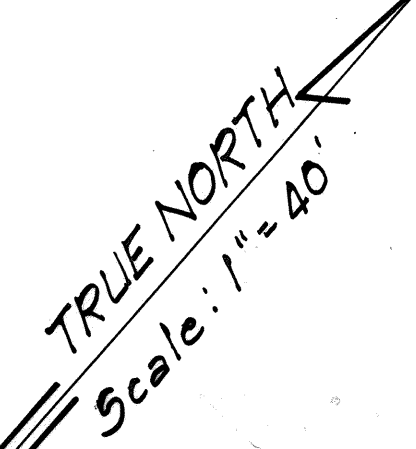
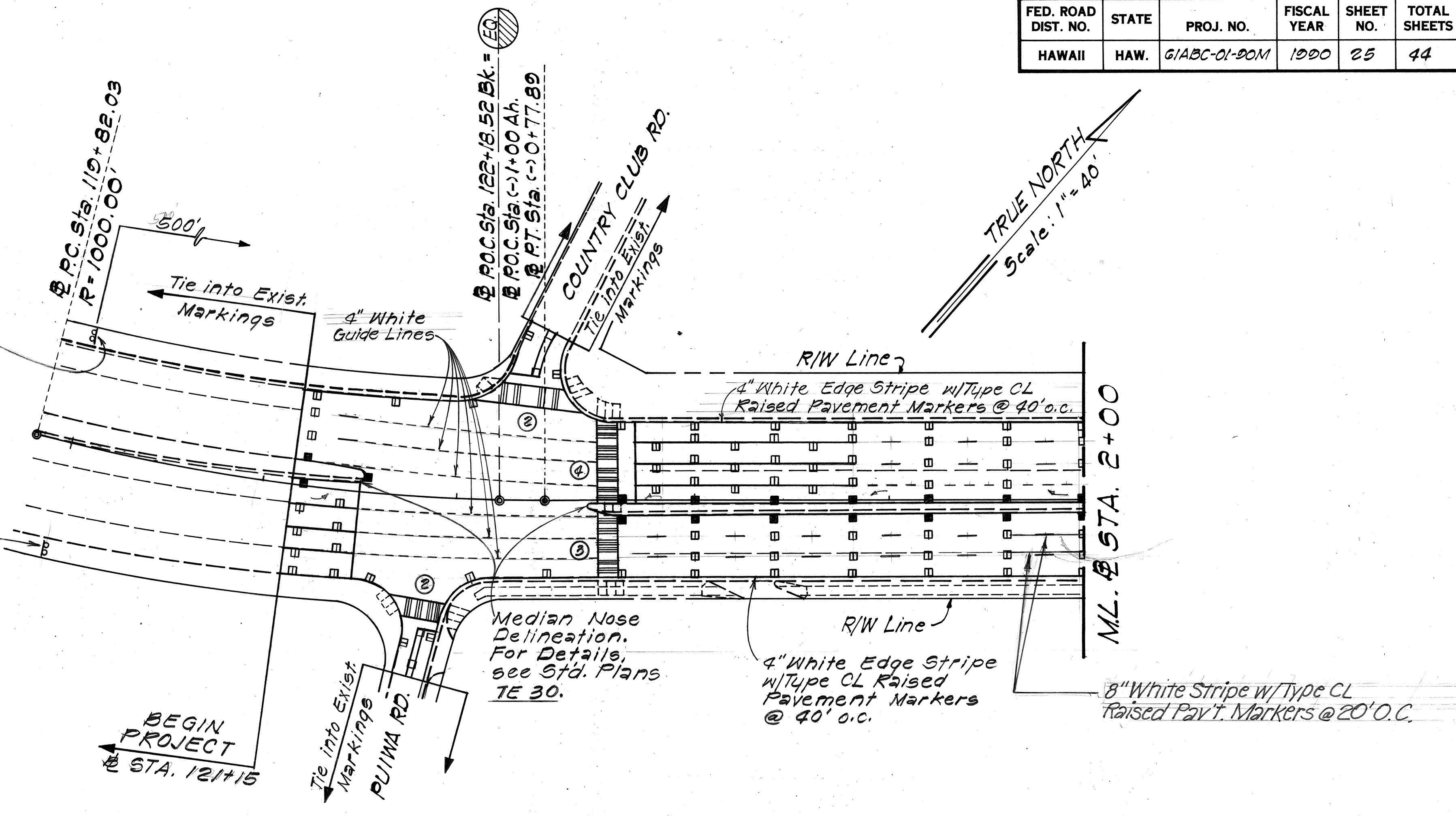


TUNNEL PAVEMENT MARKING DETAIL
Not to Scale

Install New Sign & Posts.



Install New Sign & Posts.



ML. STA. 2+00

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

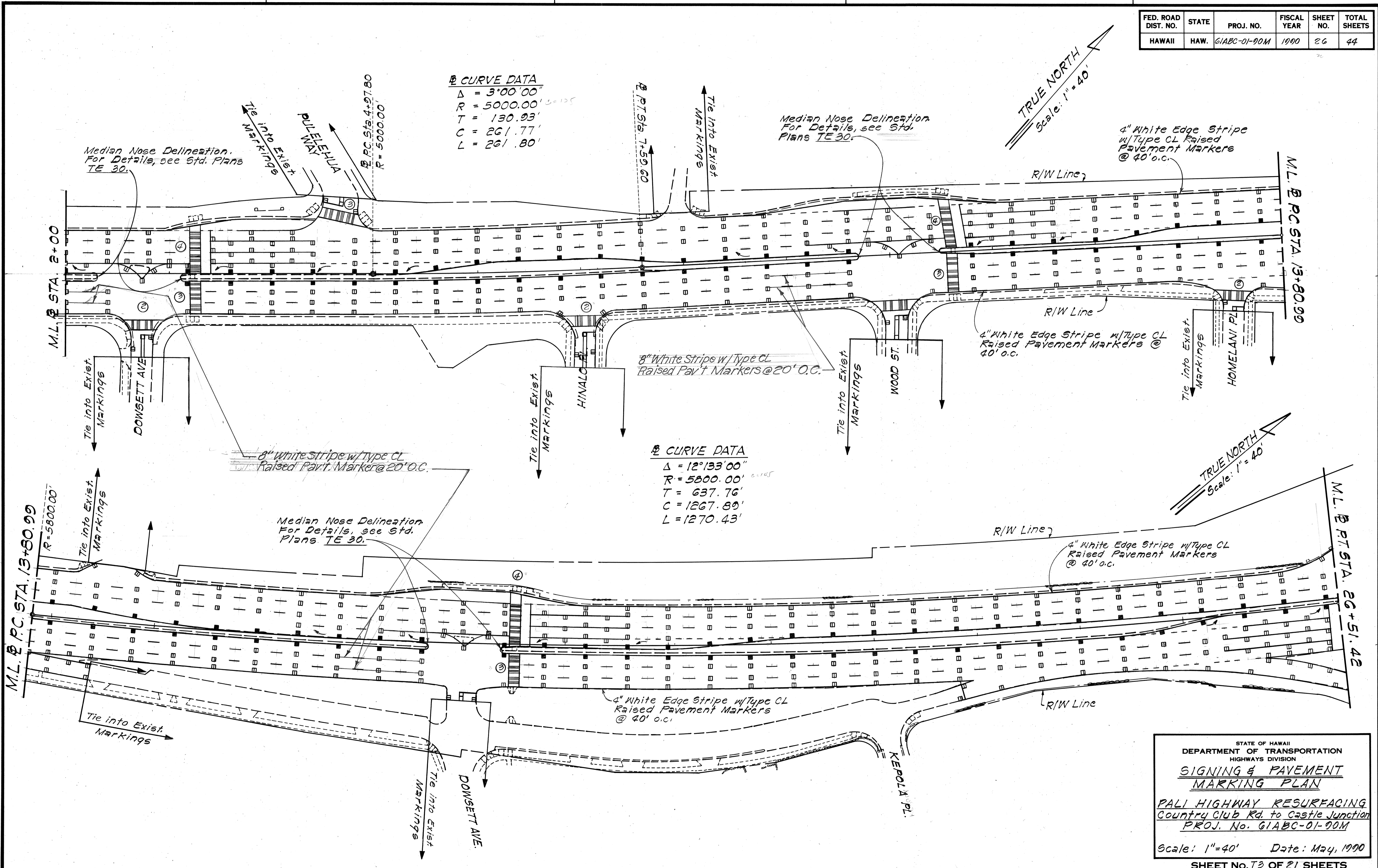
SIGNING & PAVEMENT MARKING PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
PROJ. No. GIABC-01-90M

Scale: 1" = 40' Date: May, 1990

SHEET No. 25 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-90M	1990	26	44



CURVE DATA
 $\Delta = 3^{\circ}00'00''$
 $R = 5000.00'$
 $T = 130.93'$
 $C = 261.77'$
 $L = 261.80'$

CURVE DATA
 $\Delta = 12^{\circ}13'00''$
 $R = 5800.00'$
 $T = 637.76'$
 $C = 1267.80'$
 $L = 1270.43'$

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

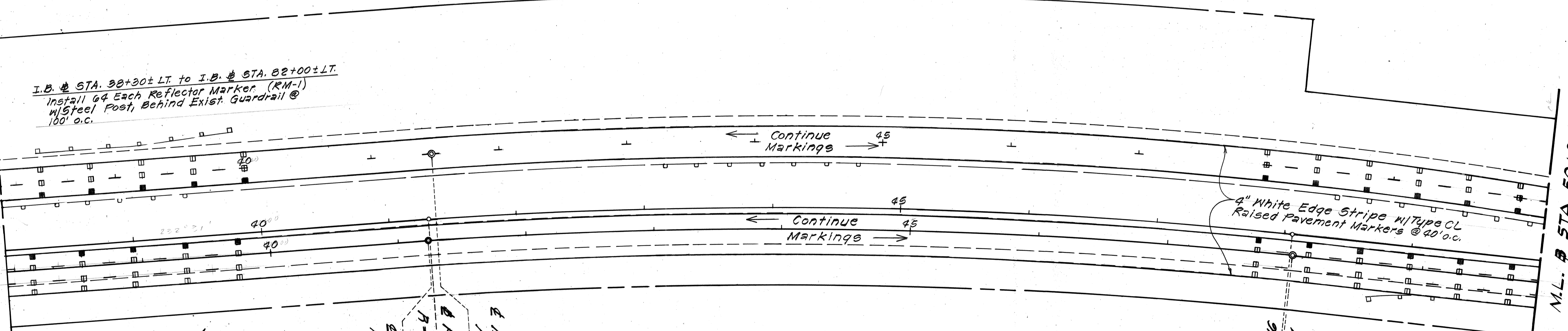
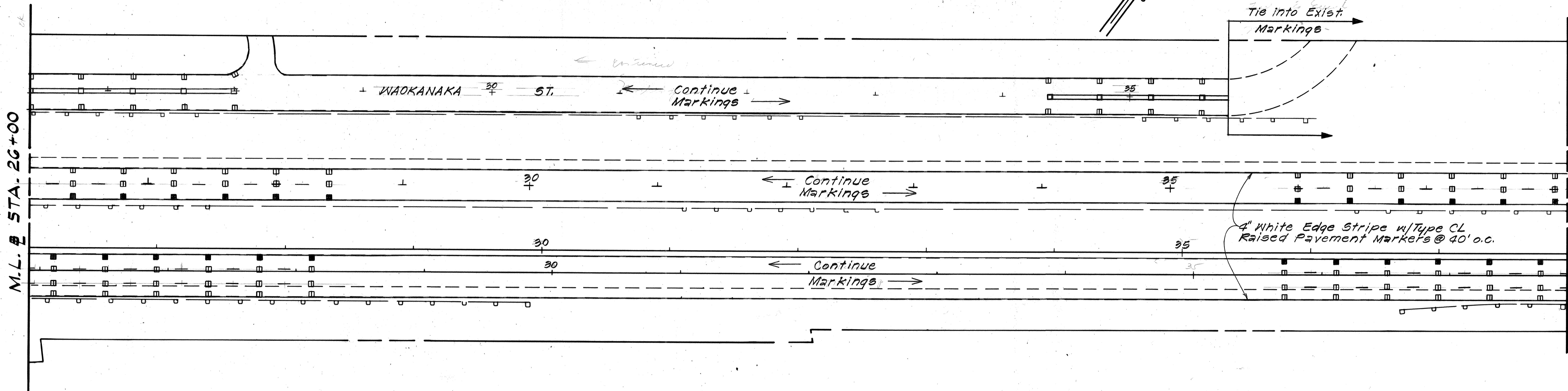
SIGNING & PAVEMENT MARKING PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
PROJ. No. GIABC-01-90M

Scale: 1"=40' Date: May, 1990

SHEET NO. 26 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-00M	1990	28	44



I.B. @ STA. 30+30±LT. to I.B. @ STA. 32+00±LT.
 Install 64 Each Reflector Marker (RM-1)
 w/ Steel Post, Behind Exist. Guardrail @
 100' o.c.

INBOUND LANE	OUTBOUND LANE
$\Delta = 13^{\circ}08'33''$	$\Delta = 10^{\circ}08'$
$R = 3,812.19'$	$R = 3,813.41'$
$T = 439.15'$	$T = 338.10'$
$Lc = 874.44'$	$Lc = 674.44'$

Δ P.C. Sta 41+47.72
 $R = 3,813.41'$
 Δ O.B. P.C. Sta 41+23.70
 $R = 3,813.41'$

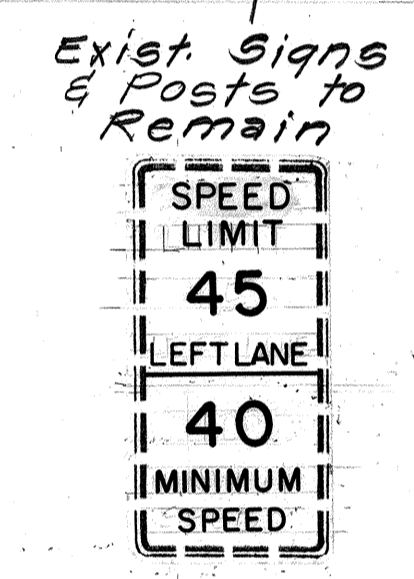
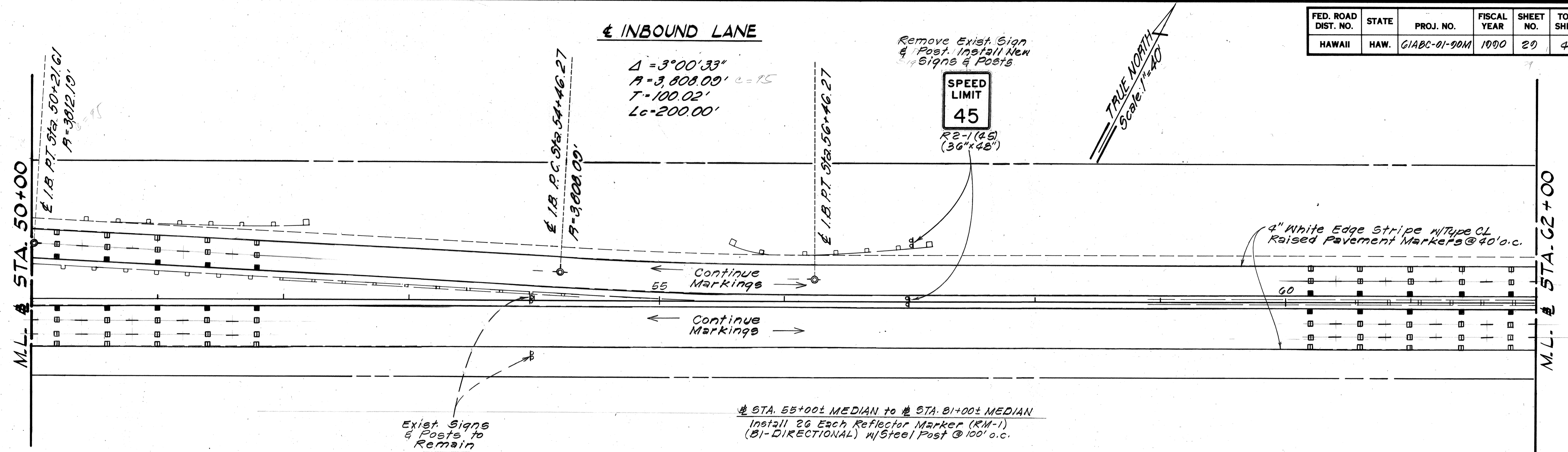
Δ P.T. Sta 48+06.16
 Δ O.B. P.T. Sta 47+05.14

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
NO.	

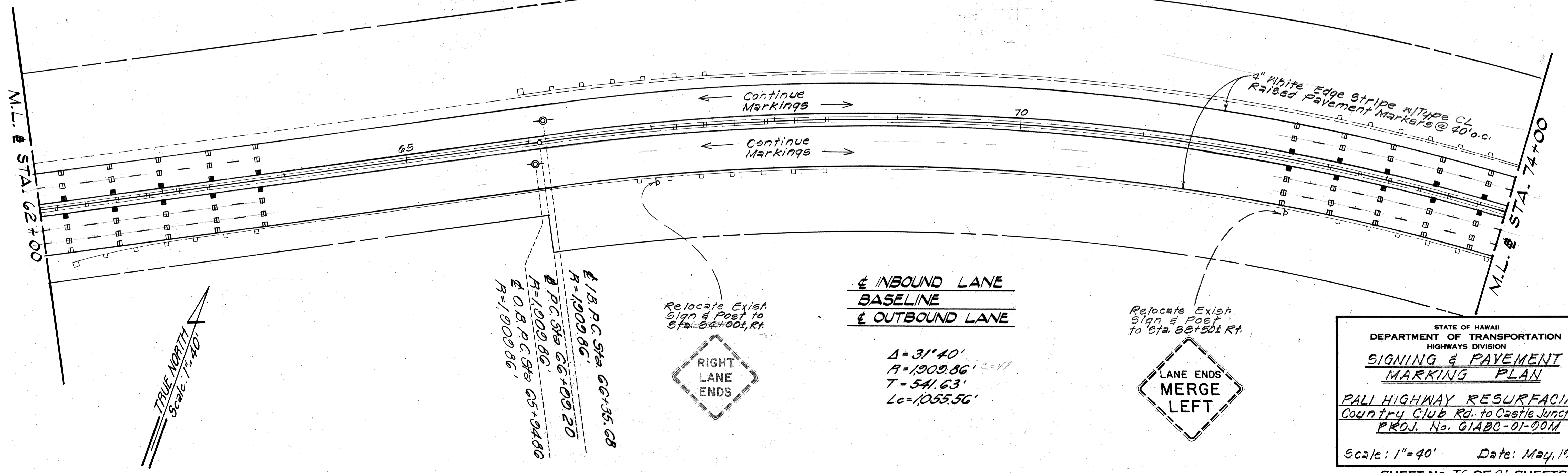
TRUE NORTH
 Scale: 1"=40'

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
 PALI HIGHWAY RESURFACING
 Country Club Rd. to Castle Junction
 PROJ. No. 61ABC-01-00M
 Scale: 1"=40' Date: May, 1990
 SHEET NO. 28 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-00M	1000	20	44



± STA. 55+00± MEDIAN to ± STA. 81+00± MEDIAN
Install 20 Each Reflector Marker (RM-1)
(BI-DIRECTIONAL) w/Steel Post @ 100' o.c.

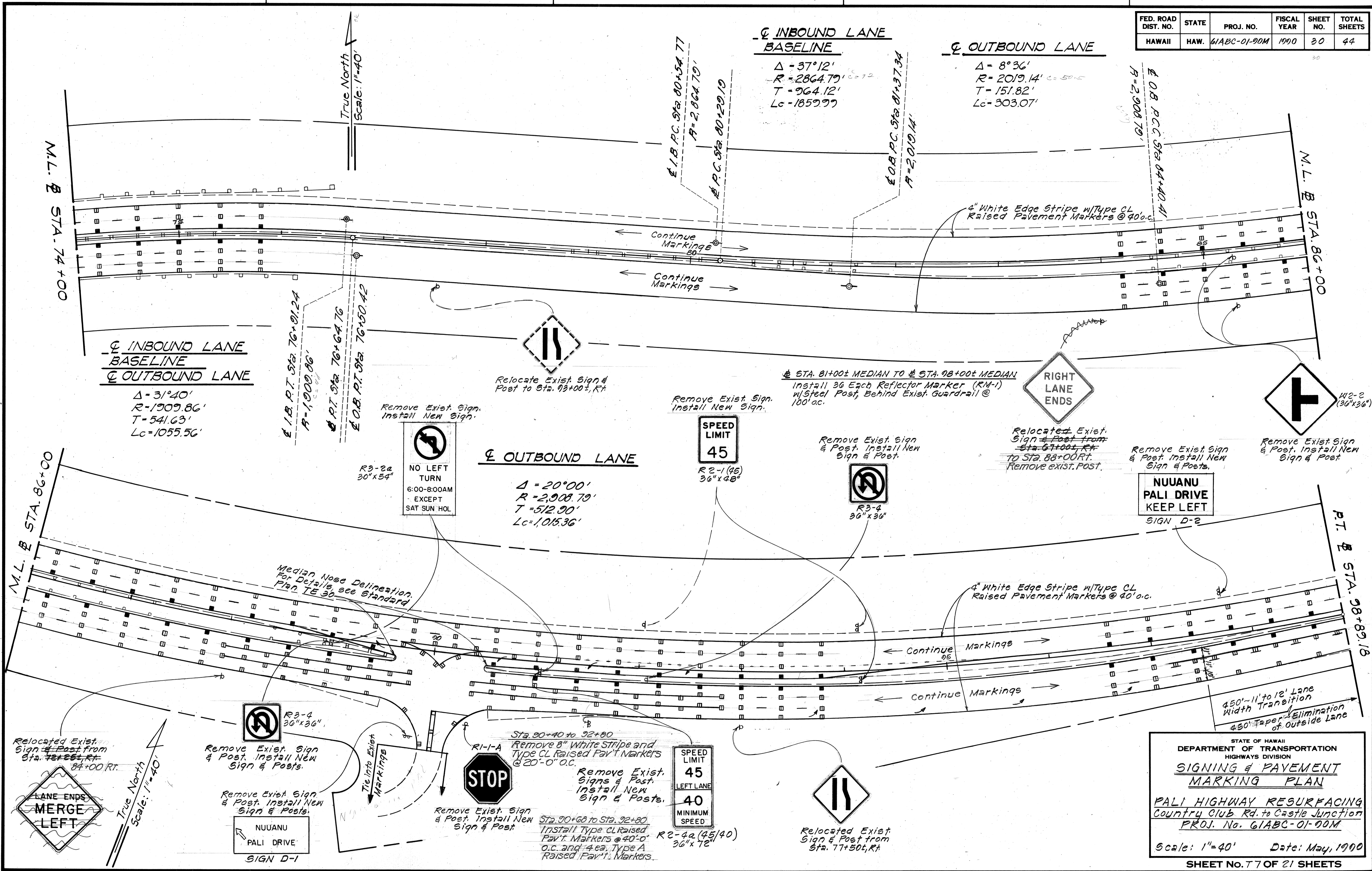


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
PROJ. No. GIABC-01-00M
Scale: 1"=40' Date: May, 1990
SHEET No. 20 OF 21 SHEETS

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
CHECKED BY	
NOTE BOOK	
NO.	

TRUE NORTH
Scale: 1"=40'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	30	44



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAYEMENT MARKING PLAN

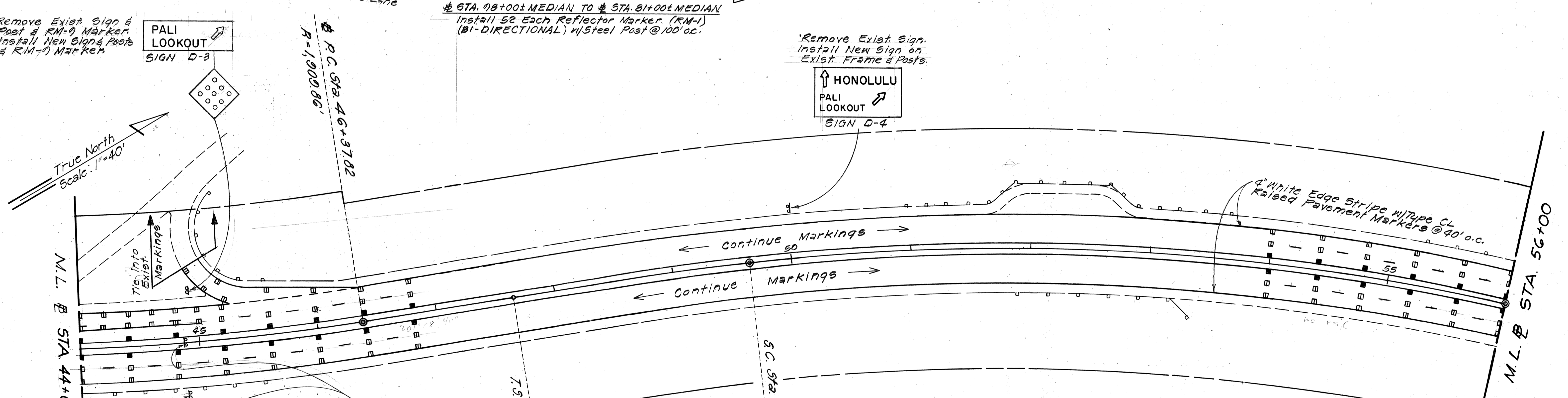
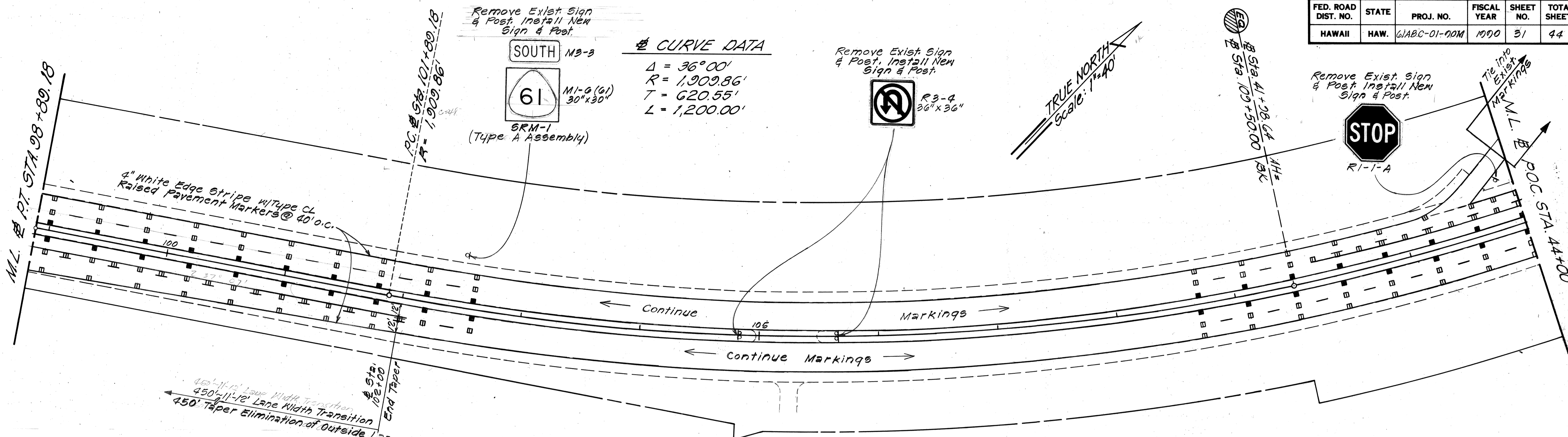
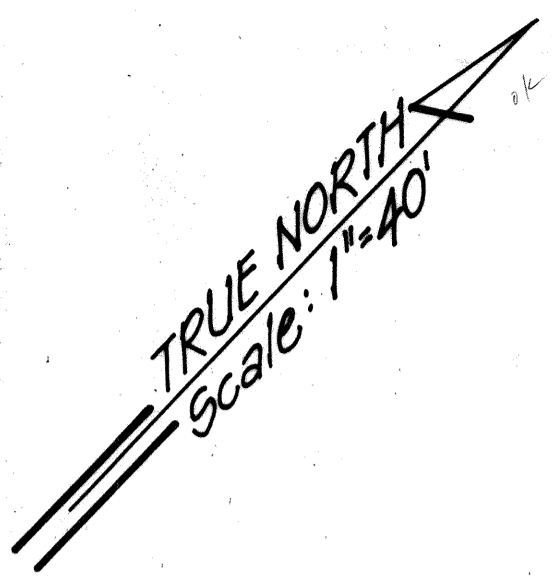
PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
PROJ. No. 61ABC-01-90M

Scale: 1"=40' Date: May, 1990

SHEET NO. 77 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-00M	1990	31	44

CURVE DATA
 $\Delta = 36^{\circ}00'$
 $R = 1,909.86'$
 $T = 620.55'$
 $L = 1,200.00'$



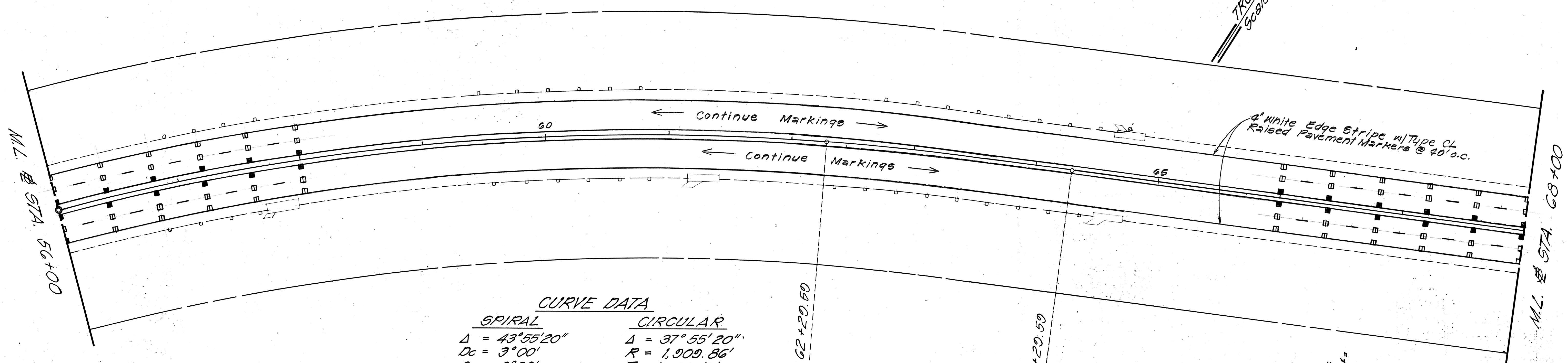
CURVE DATA

SPIRAL	CIRCULAR
$\Delta = 43^{\circ}55'20''$	$\Delta = 37^{\circ}55'20''$
$D_c = 3^{\circ}00'$	$R = 1,909.86'$
$\theta_s = 3^{\circ}00'$	$T = 656.17'$
$L_s = 200.00'$	$L = 1,264.07'$
$T_s = 870.48'$	
$L_s = 150.3'$	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
PROJ. No. GIABC-01-00M
Scale: 1" = 40' Date: May, 1990
SHEET No. 31 OF 21 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-90M	1990	32	44



CURVE DATA

SPIRAL	CIRCULAR
$\Delta = 43^{\circ}55'20''$	$\Delta = 37^{\circ}55'20''$
$D_c = 3^{\circ}00'$	$R = 1,909.86'$
$\theta_s = 3^{\circ}00'$	$T = 656.17'$
$L_s = 200.00'$	$L = 1,264.07'$
$T_s = 870.48'$	
$E_s = 150.3'$	

CURVE DATA

INS. & OUTB.

$\Delta = 10^{\circ}27'$
$R = 8,594.37'$
$T = 785.93'$
$L_c = 1,567.50'$

Remove Exist. Sign & Post & Exist. Sign on Hwy. Lt. Std. Install New Sign & Posts & New Sign on Exist. Lt. Std.

Remove Exist. Sign & Post & Exist. Sign on Hwy. Lt. Std. Install New Sign & Posts & New Sign on Exist. Hwy. Lt. Std.

Remove Exist. Sign & Post. Install New Sign & Posts.

Exist. Sign & Posts to Remain

SPEED LIMIT
45

SPEED LIMIT
45
LEFT LANE
40
MINIMUM SPEED

KANEOHE
KAILUA
PALI
LOOKOUT
SIGN D-5

TRUCKS
TEST
BREAKS

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

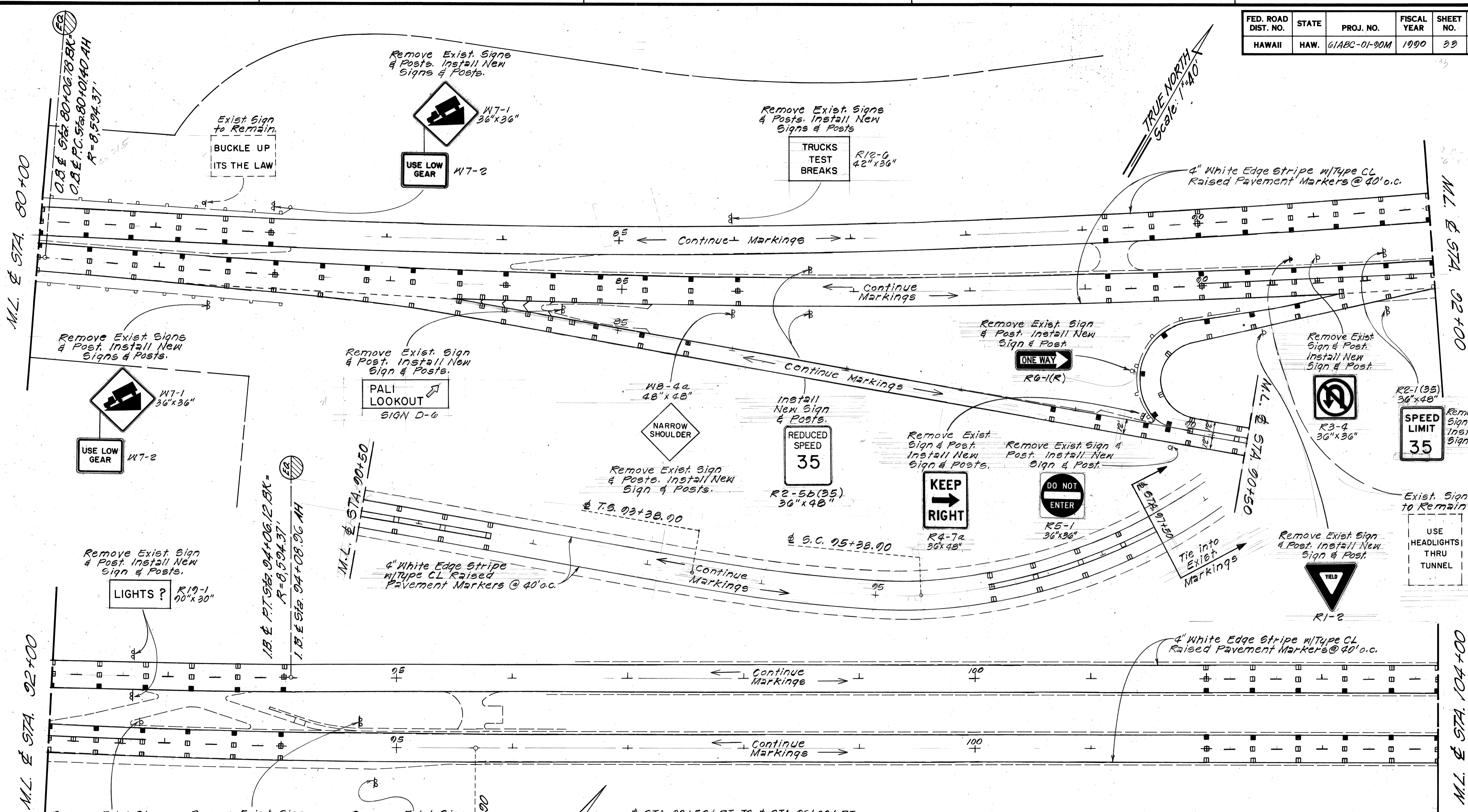
SIGNING & PAVEMENT MARKING PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
PROJ. No. GIABC-01-90M

Scale: 1" = 40' Date: May, 1990

SHEET No. 79 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	33	44



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

Date	Revision
6/8/90	Added Signing & Pavement Markings.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
PROJ. No. 61ABC-01-90M
Scale: 1" = 40' Date: May, 1990
SHEET NO. 110 OF 21 SHEETS

ADD. 33

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-00M	1990	34	44

INB. & OUTB. SPIRAL DATA

$\Delta = 9^{\circ}18'$
 $Dc = 6^{\circ}12'$
 $\theta = 4^{\circ}39'$
 $Ls = 150'$
 $Ts = 150.23'$
 $Es = 4.07'$

INB. & OUTB. SPIRAL DATA

$\Delta = 24^{\circ}45'$
 $Dc = 12^{\circ}22'30''$
 $\theta = 12^{\circ}22'30''$
 $Ls = 202.22'$
 $Es = 14.7'$

INB. CURVE DATA

SPIRAL DATA	CIRCULAR DATA
$\Delta = 36^{\circ}46'$	$\Delta c = 9^{\circ}18'08''$
$Dc = 13^{\circ}43'56''$	$R = 417.24'$
$\theta_s = 13^{\circ}43'56''$	$T = 33.94'$
$Ls = 200'$	$Lc = 67.74'$
$Ts = 239.80'$	
$Es = 26.6'$	

OUTB. CURVE DATA

SPIRAL DATA	CIRCULAR DATA
$\Delta = 36^{\circ}46'$	$\Delta c = 9^{\circ}18'00''$
$Dc = 13^{\circ}44'00''$	$R = 417.20'$
$\theta_s = 13^{\circ}44'00''$	$T = 33.93'$
$Ls = 200'$	$Lc = 67.72'$
$Ts = 239.78'$	
$Es = 26.6'$	

INB. CURVE DATA

$\Delta = 23^{\circ}38'$
 $Dc = 13^{\circ}01'02''$
 $\theta_s = 9^{\circ}45'46''$
 $Ls = 150'$
 $Ts = 167.47'$
 $Es = 11.6'$

CIRCULAR DATA

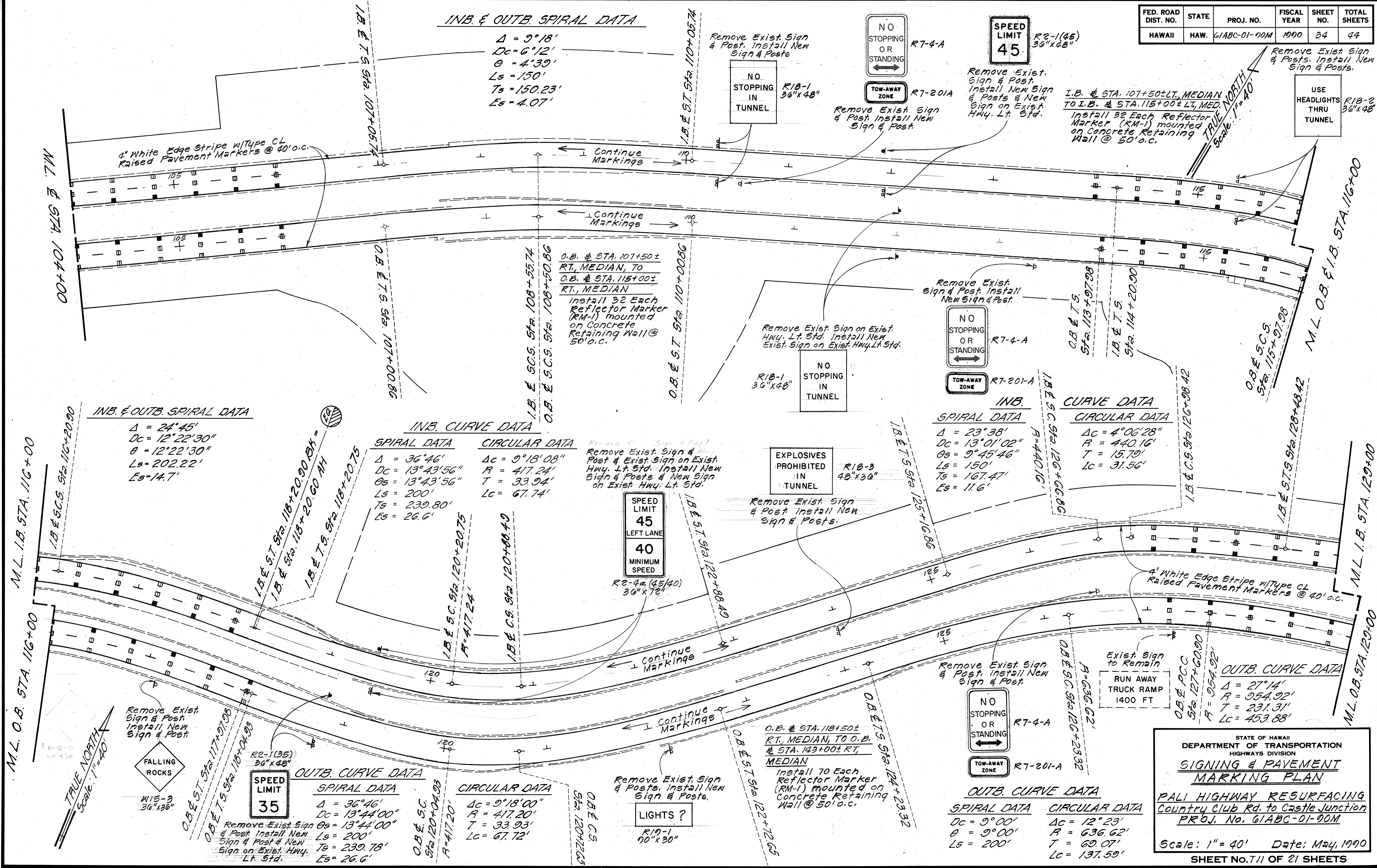
$\Delta c = 4^{\circ}06'28''$
 $R = 440.16'$
 $T = 15.79'$
 $Lc = 31.56'$

OUTB. CURVE DATA

$\Delta = 27^{\circ}14'$
 $R = 354.92'$
 $T = 231.31'$
 $Lc = 453.88'$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
PROJ. No. GIABC-01-00M
Scale: 1" = 40' Date: May, 1990
SHEET NO. 11 OF 21 SHEETS

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



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GIABC-01-90M	1990	36	44

M.L. @ STA. 152+00

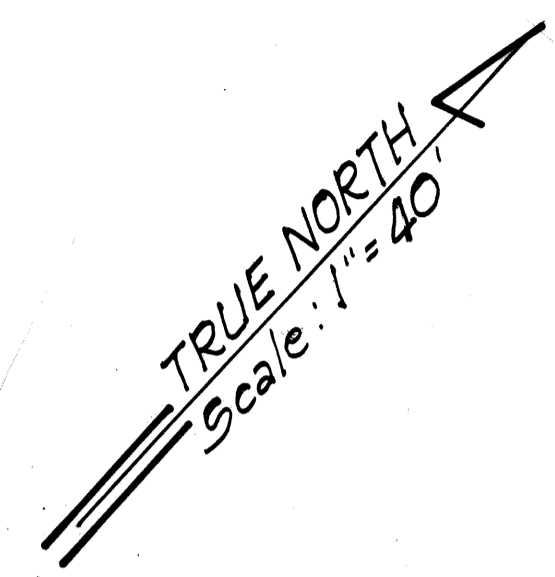
M.L. @ STA. 170+00

SPIRAL CURVE DATA

$\theta_s = 21^\circ 29' 09.3''$
 $L_s = 300.00'$
 $L.C. = 208.13'$
 $L.T. = 201.49'$
 $S.T. = 101.36'$
 $k = 149.30'$
 $p = 9.33'$

CIRCULAR CURVE DATA

$\Delta_c = 148^\circ 21' 41.4''$
 $R = 400.00'$
 $T_c = 1411.76'$
 $L_c = 1035.76'$
 $S.E. = 0.1 \text{ ft/A.}$

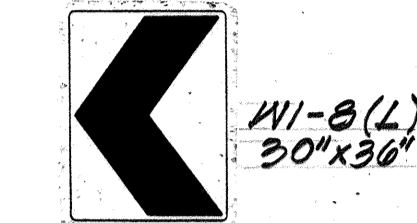


@ STA. 165+00± MEDIAN TO @ STA. 201+00± MEDIAN
 Install 72 Each Reflector Marker (RM-1)
 (BI-DIRECTIONAL) w/Steel Post @ 50' o.c.

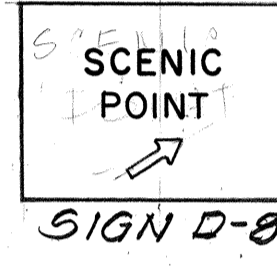
@ STA. 153+00± MEDIAN TO @ STA. 165+00± MEDIAN
 Install 25 Each Reflector Marker (RM-1)
 (BI-DIRECTIONAL) mounted on Concrete
 Retaining Wall @ 50' o.c.

@ STA. 153+00± RT. TO @ STA. 170+00± RT.
 Install 32 Each Reflector
 Marker (RM-1) mounted on
 Concrete Retaining Wall
 @ 50' o.c.

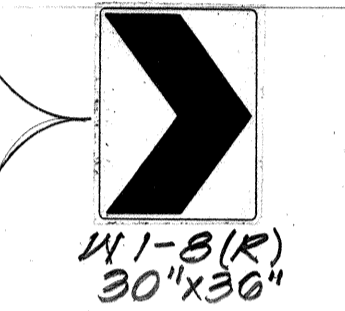
Remove Exist. Sign & Post. Install New Sign & Post.



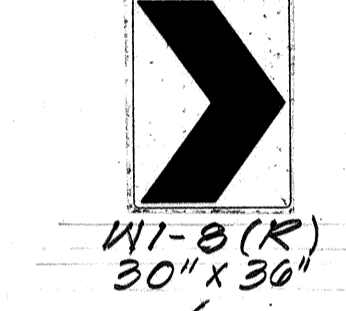
Remove Exist. Sign & Post. Install New Sign & Post.



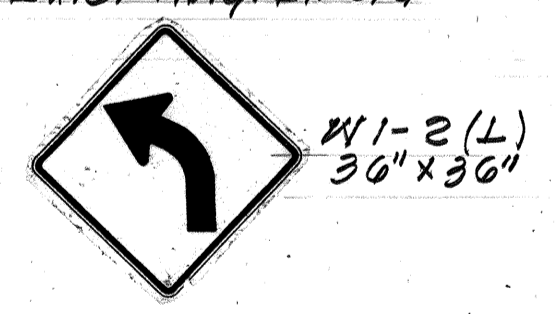
Remove Exist. Sign on Exist. Hwy. Lt. Std. Install New Sign on Exist. Hwy. Lt. Std.



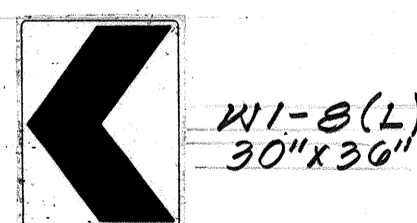
Remove Exist. Sign & Post. Install New Sign & Post.



Remove Exist. Sign on Exist. Hwy. Lt. Std. Install New Sign on Exist. Hwy. Lt. Std.

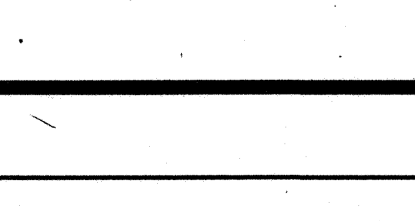


Flashing Lt to Remain

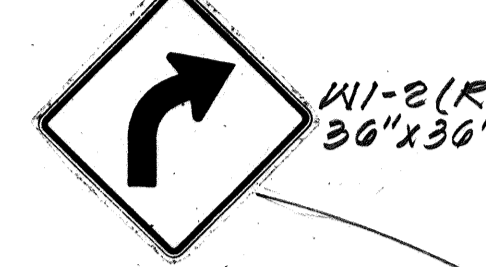


Remove Exist. Sign on Exist. Hwy. Lt. Std. Install New Sign on Exist. Hwy. Lt. Std.

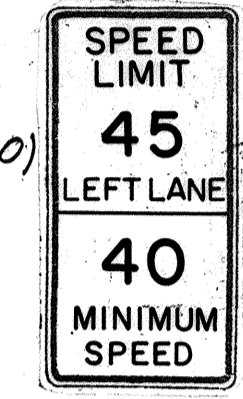
Remove Exist. RM-9 & Post. Install New RM-9 & Post.



Remove Exist. Sign & Post. Install New Sign & Post.

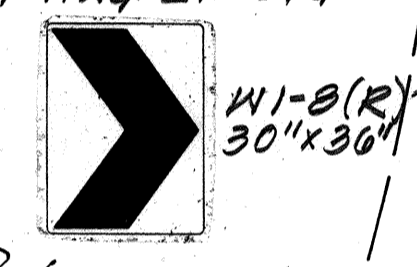


Remove Exist. Sign & Post. Install New Sign & Post.

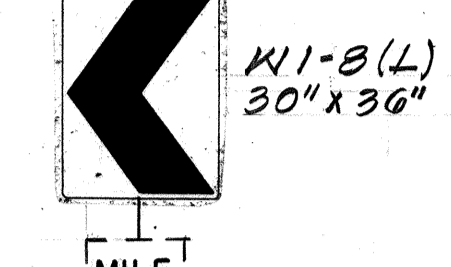


R2-4a (45/40) 36\"/>

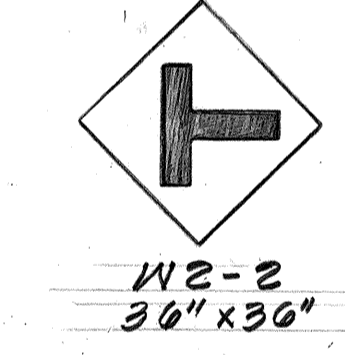
Remove Exist. Sign on Exist. Hwy. Lt. Std. Install New Sign on Exist. Hwy. Lt. Std.



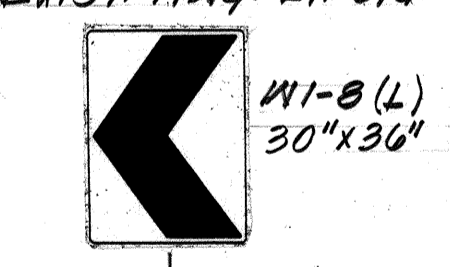
Remove Exist. Sign & Post. Install New Sign & Post. Mile Post Sign on New Post.



Remove Exist. Sign & Post. Install New Sign on Hwy. Lt. Std.



Remove Exist. Sign on Exist. Hwy. Lt. Std. Install New Sign on Exist. Hwy. Lt. Std.



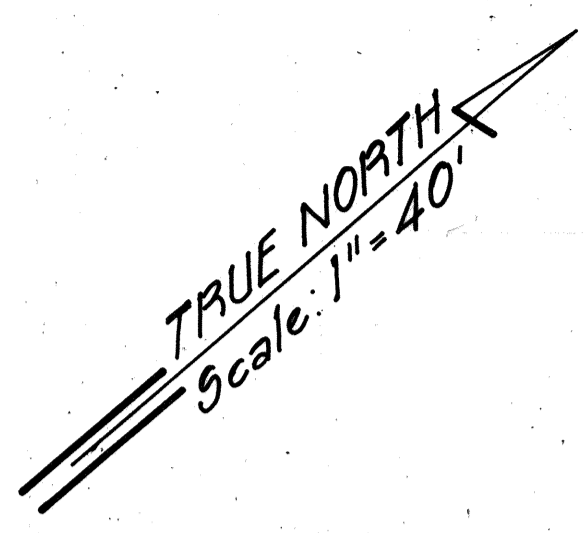
Remove Exist. Sign & Post. Install New Sign & Post.



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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
 PALI HIGHWAY RESURFACING
 Country Club Rd. to Castle Junction
 PROJ. No. GIABC-01-90M
 Scale: 1" = 40' Date: May, 1990
 SHEET No. 713 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	38	44



Remove Exist. Sign & Posts
 HONOLULU
 8 MILES
 13 KILOMETERS

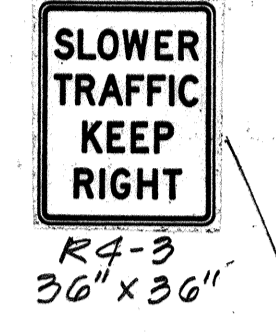
Median Nose Delineation.
 For Details, see Standard
 Plans TE 30.

4" White Edge Stripe
 w/Type CL Raised
 Pavement Markers
 @ 40' o.c.

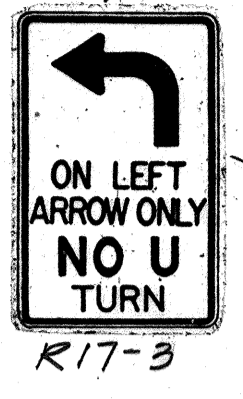
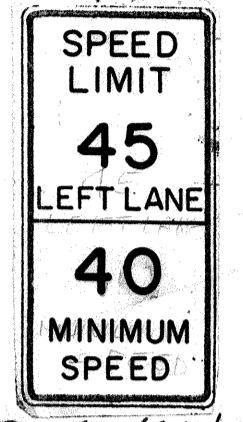
Remove Exist. Sign on
 Exist. Hwy. Lt. Std.
 Install New Sign on
 Exist. Hwy. Lt. Std.



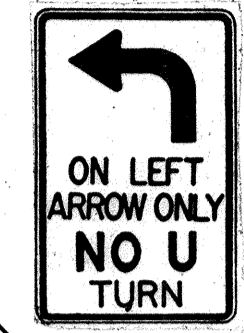
Remove Exist. Sign & Post. Install New Sign on Exist. Hwy. Lt. Std.



Remove Exist. Sign & Post. Install New Sign & Post.



Remove Exist. Sign & Post. Install New Sign & Post.



Install New Sign & Post.
 HONOLULU
 KANEHOE MCAS
 KANEHOE
 SIGN D-11

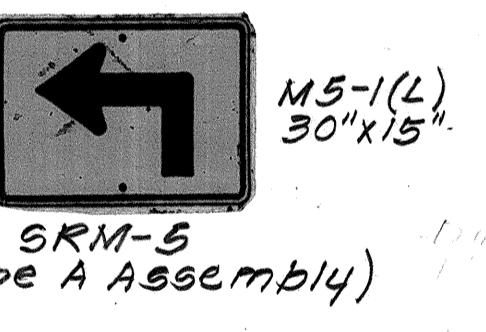
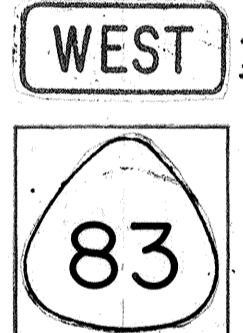


M.L. @ STA 195+00
 RUMBLE STRIPS
 7.5 Sta 195+00 to 195+09.12

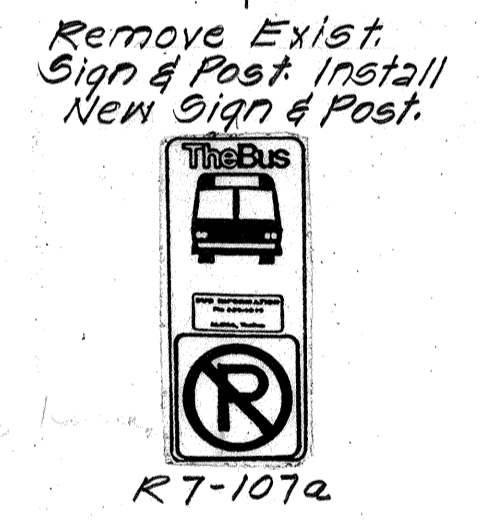
Remove Exist. Sign on
 Exist. Hwy. Lt. Std.
 Install New Sign on
 Exist. Hwy. Lt. Std.



Remove Exist. Sign on
 Exist. Hwy. Lt. Std.
 Install New Signs on
 Exist. Hwy. Lt. Std.



Remove Exist. Sign on
 Exist. Traffic Lt. Std.
 Install New Sign on
 Exist. Traffic Lt. Std.



Remove Exist. Sign on
 Exist. Traffic Signal
 Std. Install New Sign on
 Exist. Traffic



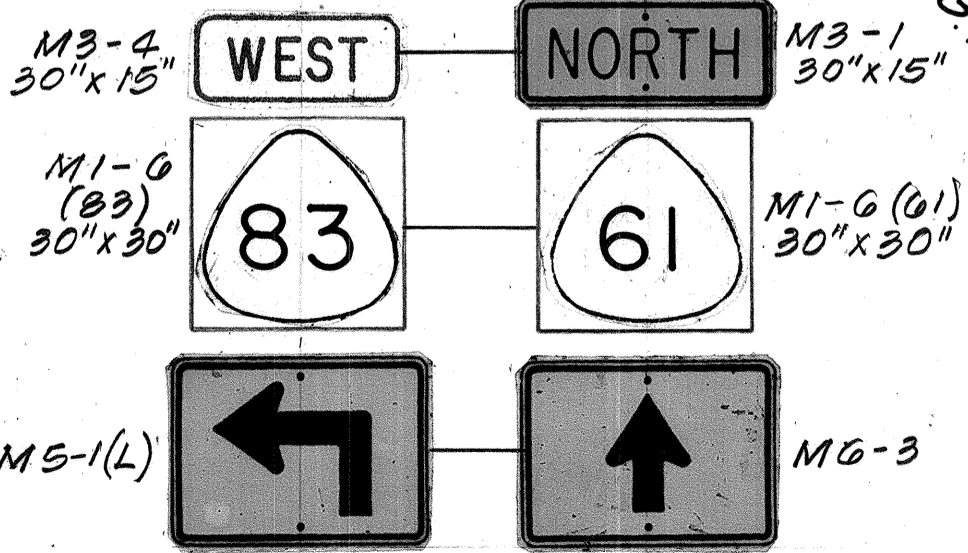
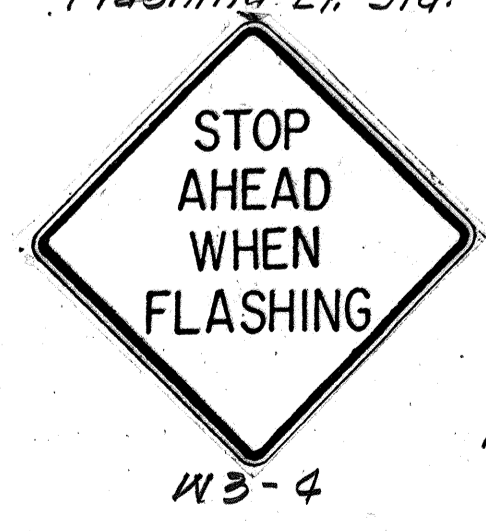
CURVE DATA

SPIRAL DATA

$\Delta = 35^{\circ}15'$
 $\theta_s = 13^{\circ}30'$
 $L_s = 300'$
 $T_s = 353.85'$
 $L.T. = 200.58'$
 $S.T. = 100.53'$

CIRCULAR DATA

$\Delta_c = 8^{\circ}15'$
 $R = 636.62'$
 $T = 45.91'$
 $L_c = 91.67'$



Existing Sign & Posts to Remain
 WAIMANALO
 KAILUA
 KANEHOE MCAS
 KANEHOE

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAYEMENT MARKING PLAN
 PALI HIGHWAY RESURFACING
 Country Club Rd. to Castle Junction
 PROJ. NO. 61ABC-01-90M
 Scale: 1"=40' Date: May, 1990
 SHEET No. 71 OF 21 SHEETS

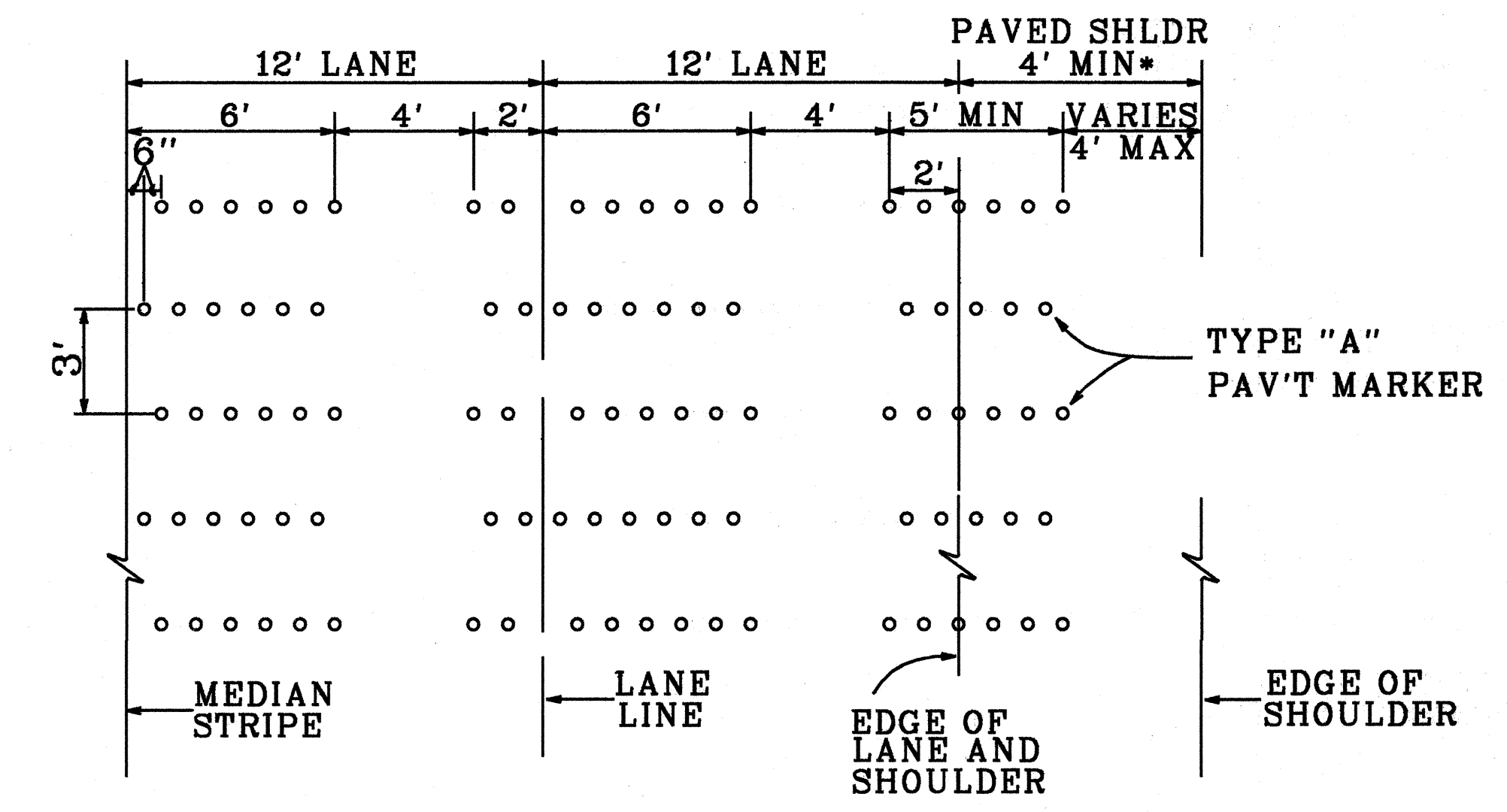
PAVEMENT MARKING SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	39	44

DESCRIPTION	QUANTITY	
	DAY	NIGHT
PAVEMENT MARKERS		
TYPE A _____	3,700 Each	3,250 Each
TYPE CL _____	1,840 Each	2,033 Each
TYPE DL _____	100 Each	49 Each
TYPE HL _____	740 Each	1,020 Each
TYPE J _____	160 Each	100 Each
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION		
4-INCH PAVEMENT STRIPE (WHITE) _____	—	—
4-INCH PAVEMENT STRIPE (YELLOW) _____	—	—
8-INCH PAVEMENT STRIPE (WHITE) _____	1,180 L.F.	1,390 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	—	—
12-INCH PAVEMENT STRIPE (YELLOW) _____	—	—
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	1,780 L.F.	830 L.F.
PAVEMENT ARROW _____	22 Each	6 Each
PAVEMENT WORD _____	6 Each	2 Each
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION		
4-INCH PAVEMENT STRIPE (WHITE) _____	25,490 L.F.	37,900 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	22,180 L.F.	36,085 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	2,430 L.F.	700 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	—	30 L.F.
12-INCH PAVEMENT STRIPE (YELLOW) _____	—	—
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	2,000 L.F.	1,200 L.F.
THERMOPLASTIC EXTRUSION		
4-INCH PAVEMENT STRIPE (WHITE) _____	3,190 L.F.	1,620 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	280 L.F.	170 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	—	—
12-INCH PAVEMENT STRIPE (WHITE) _____	480 L.F.	350 L.F.
CROSSWALK MARKINGS _____	52 Lanes	11 Lanes

CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POSTS	W/O POST
CW20-1d	PALI HWY @ STA. 116+15± RT.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	PALI HWY @ STA. 116+15± LT.	END CONSTRUCTION	1	
CW20-1d	PALI HWY @ STA. 208+00± LT.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	PALI HWY @ STA. 208+00± RT.	END CONSTRUCTION	1	
CW20-1d	KAM HWY @ STA. 156+35± RT.	ROAD CONSTRUCTION AHEAD	1	
TOTAL			5	



↑ DIRECTION OF TRAVEL ↑

* If less than 4'-0" extend rumble strip across paved shoulder

RUMBLE STRIPS
12' MULTI-LANE

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	OVERLAY AREA (SQ. FT.)	NEW PANEL AREA (SQ. FT.)	
					W/O POST	W/POST
D-1	@ STA. 89+85± RT.	↖ NUUANU PALI DRIVE	6'-6" x 2'-6"			16.25
D-2	@ STA. 98+75± LT.	NUUANU PALI DRIVE KEEP LEFT	5'-6" x 3'-6"			19.25
D-3	@ STA. 44+93± LT.	PALI LOOKOUT ↗	6'-0" x 2'-6"			15.00
D-4	@ STA. 50+00± LT.	↑ HONOLULU PALI LOOKOUT ↗	6'-6" x 4'-0"			26.00
D-5	@ STA. 72+50± RT.	↑ KANEOHE KAILUA PALI LOOKOUT ↗	6'-0" x 4'-6"			27.00
D-6	@ STA. 84+50± RT.	PALI LOOKOUT ↗	6'-0" x 2'-6"			15.00
D-7	@ STA. 148+35± LT.	SCENIC POINT 500 FT.	5'-0" x 4'-0"			20.00
D-8	@ STA. 154+95± RT.	SCENIC POINT ↗	5'-0" x 5'-0"			25.00
D-9	@ STA. 179+70± RT.	83 WEST KAMEHAMEHA HIGHWAY LEFT LANE	6'-0" x 5'-0"	30.00		
D-10	@ STA. 188+35± RT.	83 WEST KAMEHAMEHA HIGHWAY 2ND LEFT	6'-0" x 5'-0"			30.00
D-11	@ STA. 203+40± LT.	↑ HONOLULU KANEOHE MCAS KANEOHE ↗	8'-6" x 3'-6"			29.75
TOTAL				30.00		223.25

LEGEND FOR AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

6/13/90 Revised Pavement Marking Summary

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING SUMMARIES

PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
Project No. 61ABC-01-90M

Date: May, 1990

SHEET No. 716 OF 19 SHEETS

SURVEY PLOTTED BY _____
 DRAWN BY _____
 CHECKED BY _____
 DATE _____
 ORIGINAL PLAN _____
 NOTE BOOK _____
 QUANTITIES BY _____
 CHECKED BY _____

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POSTS	W/O POST
R1-1-A	STOP	6			
R1-2	YIELD	1			
R2-1(35) 36"x48"	SPEED LIMIT 35			5	4
R2-1(45) 36"x48"	SPEED LIMIT 45			6	2
R2-4a(45/40) 36"x72"	SPEED LIMIT 45/40			11	4
R2-5b(35) 36"x48"	REDUCED SPEED 35			2	
R3-2a	NO LEFT TURN 6:00-8:00 AM EXCEPT SAT. SUN. & HOL.			2	
R3-4 36"x36"	NO U TURN	6	6		
R4-3 36"x48"	SLOWER TRAFFIC KEEP RIGHT				2
R4-7A	KEEP RIGHT	1			
R5-1	DO NOT ENTER	1			
R6-1(R)	ONE WAY	3			
R7-4-A	NO STOPPING OR STANDING	11	1		
R7-107a	BUS STOP	2			
R7-201-A	TOW-AWAY ZONE		12		
R12-6 42"x36"	TRUCK TEST BRAKES			1	
R17-3	ON LEFT ARROW ONLY NO U TURN	2	2		
R18-1 36"x48"	NO STOPPING IN TUNNEL			2	2
R18-2 36"x48"	USE HEADLIGHTS THRU TUNNEL			3	
R18-3 48"x36"	EXPLOSIVES PROHIBITED IN TUNNEL			1	1
R19-1 90"x30"	LIGHTS ?			3	
W1-2(L) 36"x36"	↖	1	1		
W1-2(R) 36"x36"	↗		2		
W1-8(L) 30"x36"	<	2	7		
W1-8(R) 30"x36"	>	5	6		
W2-2 36"x36"	⊥	4	2		
W3-3	SIGNAL AHEAD	1	1		
W3-4	STOP AHEAD WHEN FLASHING		2		
W7-1 36"x36"	HILL	2			
W7-2	USE LOW GEAR		2		
W7-4a 96"x60"	RUNAWAY TRUCK RAMP ↗				1
W7-4b 96"x48"	RUNAWAY TRUCK RAMP 500 FT.				1
W7-4c 96"x48"	RUNAWAY TRUCK RAMP 1,000 FT.			1	1
W8-4a 48"x48"	NARROW SHOULDERS			2	
W14-4	LIMITED SIGHT DISTANCE		1		
W15-3 36"x36"	FALLING ROCKS	1			
W17-1(L)	↶			1	
TOTAL		49	45	40	18

ROUTE MARKER SUMMARY

SIGN ASSEMBLY	LOCATION	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY		TYPE B ASSEMBLY	
			W/POST	W/O POST	W/POST	W/O POST
SRM-1	⊕ STA. 102+50 LT.	M3-3 SOUTH M1-6(61) 61	1			
SRM-2	⊕ STA. 188+93 RT.	M2-1 JCT M1-6(83) 83	1			
SRM-3	⊕ STA. 192+82 LT.	M3-3 SOUTH M1-6(61) 61	1			
SRM-4	⊕ STA. 194+22 RT.	M3-4 WEST M1-6(83) 83 M5-1(L) ↙ M3-1 NORTH M1-6(61) 61 M6-3 ↑			1	
SRM-5	⊕ STA. 199+00 MED.	M3-4 WEST M1-6(83) 83 M5-1(L) ↙	1			
TOTAL			4	—	1	—

REFLECTOR MARKER SUMMARY

TYPE	QUANTITY							
	W/O POST		W/FLEXIBLE POST		W/STEEL POST		MOUNT ON CONCRETE RETAINING WALL	
	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE
RM-1				54	36	208	83	86
RM-1 BI-DIRECTIONAL					202		25	
RM-9	1		11					

OBJECT MARKER SUMMARY

TYPE	QUANTITY		
	W/O POST	W/FLEXIBLE POST	W/STEEL POST
TYPE II	100		
TOTAL	100	—	—

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING SUMMARIES
PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
Project No. 61ABC-01-90M
Date: May, 1990
SHEET No. 117 OF 19 SHEETS

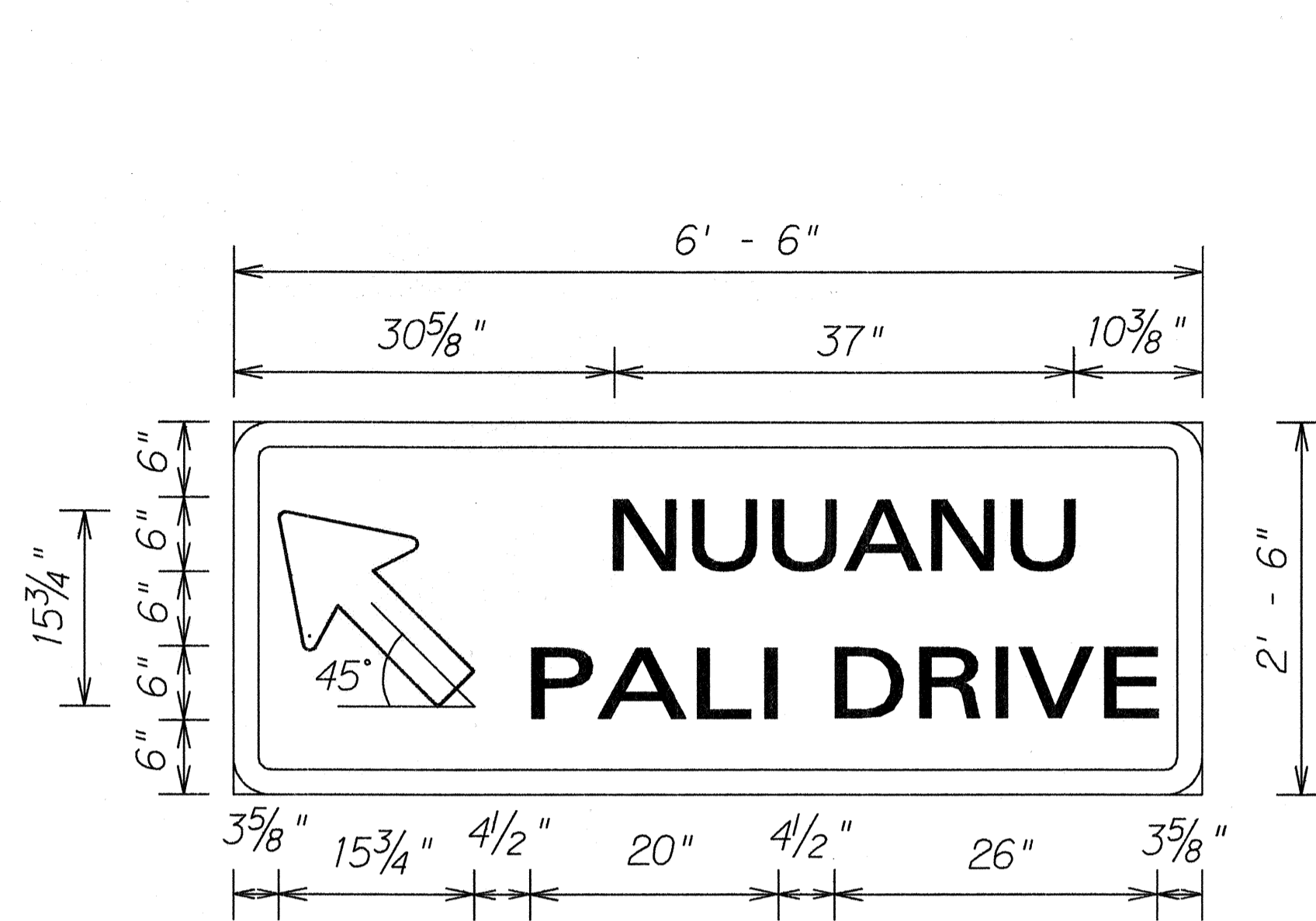
SURVEY PLOTTED BY _____
 DRAWN BY _____
 TRACED BY _____
 DESIGNED BY _____
 CHECKED BY _____
 ORIGINAL PLAN _____
 NOTE BOOK _____
 No. _____

6/13/90 Revised Traffic Sign Summary
DATE REVISION

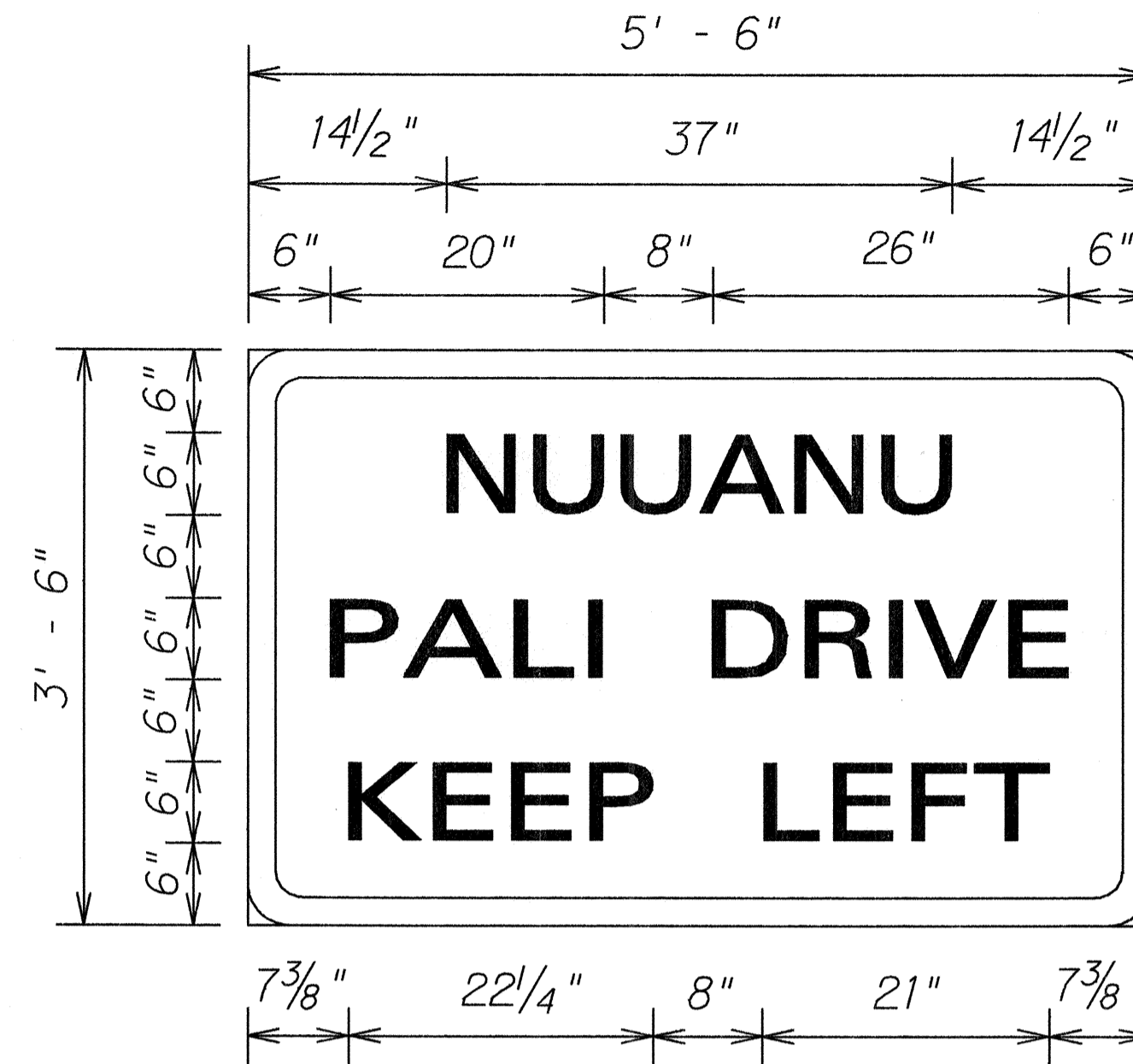
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	41	44

GENERAL NOTES

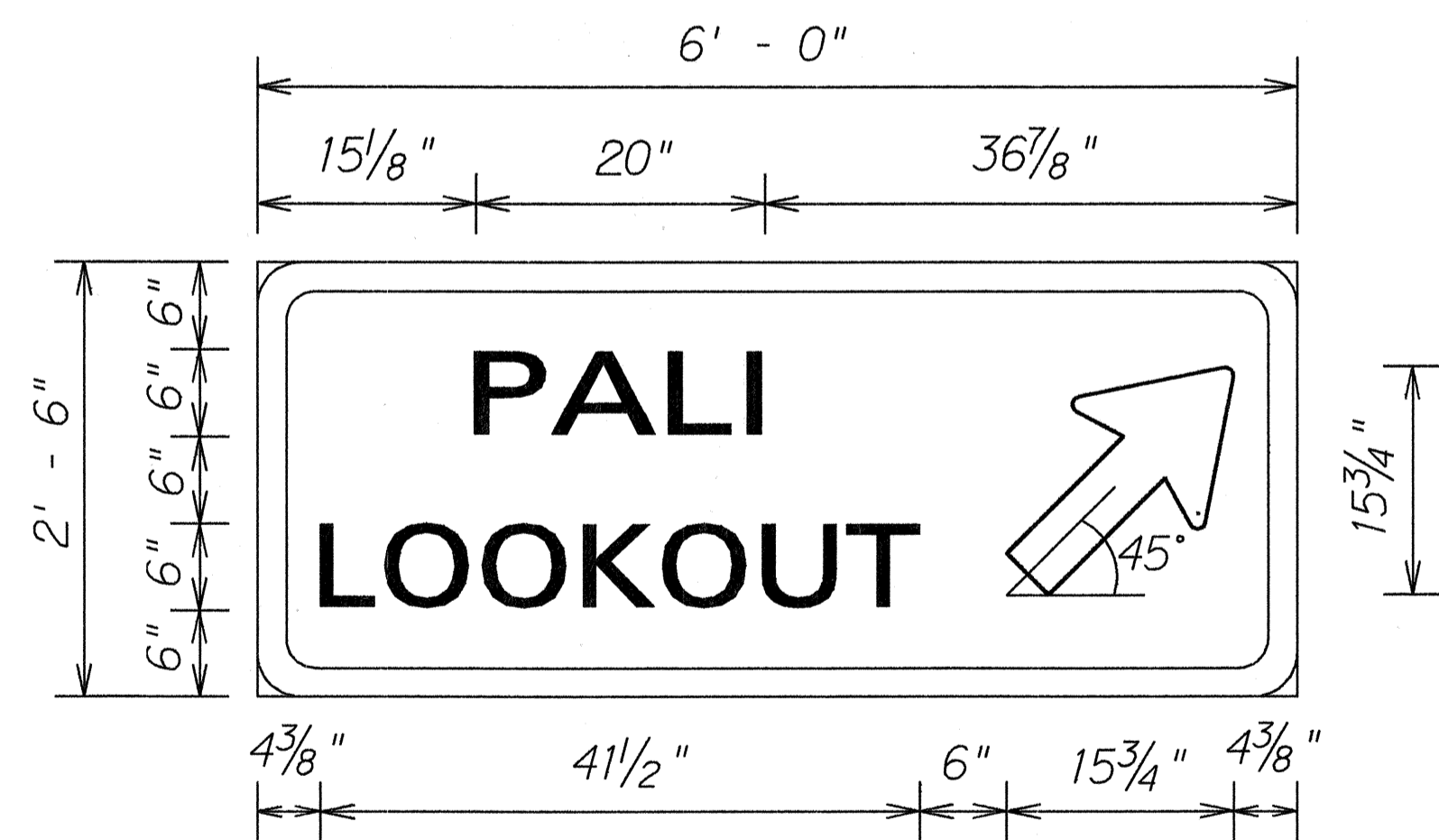
- The contractor shall verify the locations and dimensions of existing Sign Panels, supports, and framing.
- Letter Size:
 - When letters are all uppercase, use series "E"
 - When initial uppercase letter is used in conjunction with lowercase letters, use series "E" (M) for uppercase letter.
- Interstate Route Marker Symbols shall conform to details shown on the plans and as specified in the MUTCD.
- All signs shall conform to Section 621 of the Special Provisions and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
- Borders, messages, arrows, symbols and shield shall conform to details as shown on the plans and as specified in the MUTCD.
- Signs messages shall be as indicated on the plan.
- All panels shall be reflectorized in accordance with Section 712.20 of the Standard Specifications. Minimum width of panels shall be 2 ft. abutting edges of panels shall be in only one direction if vertical abutting edges are used, no horizontal abutting edges shall be allowed and vice versa.
- Contractor shall submit all sign splicing details to the Engineer for approval. All backing for signs 4 feet by 6 feet or less shall be of one sheet.



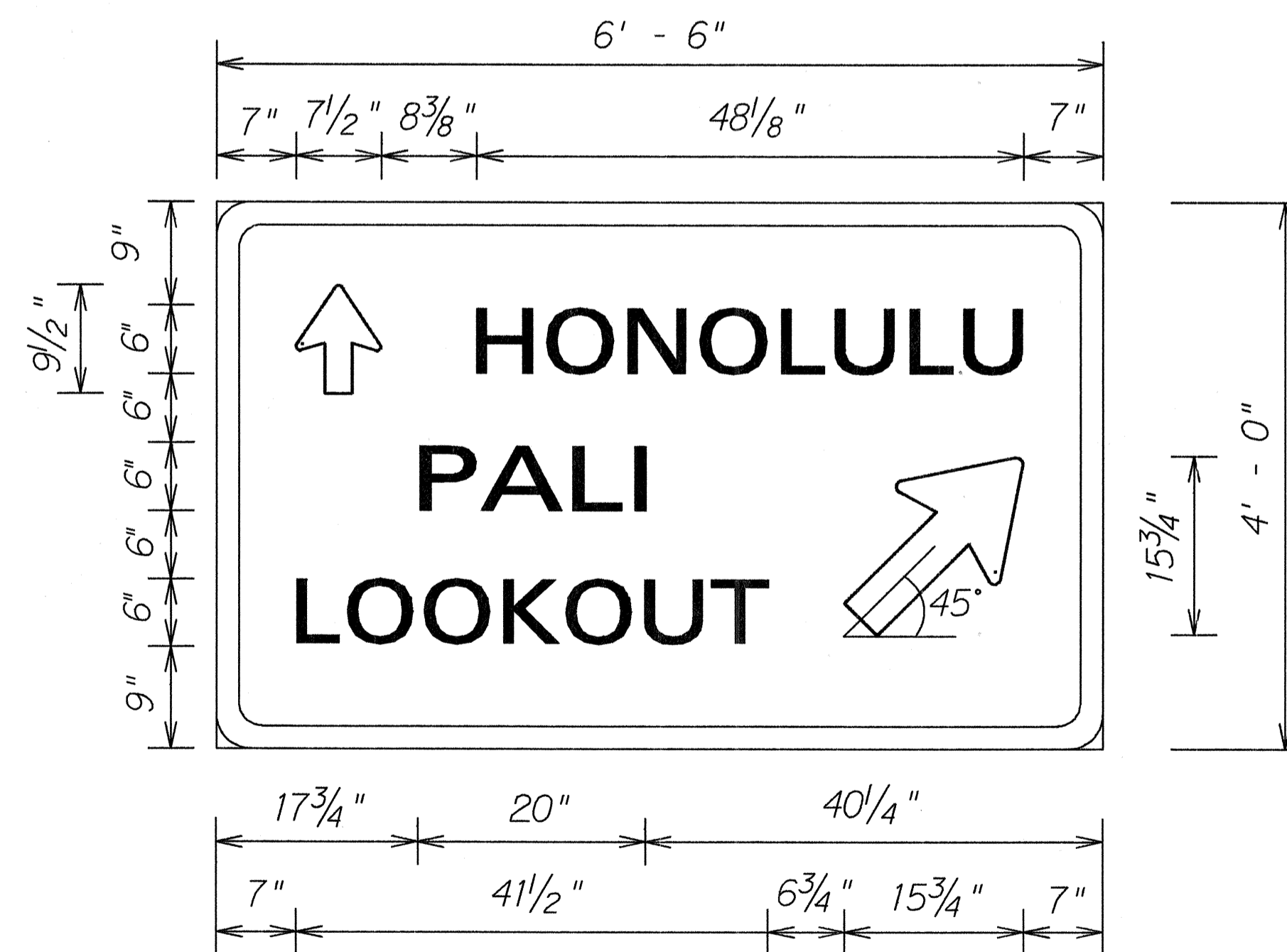
SIGN D-1
 STA. 89 + 85 ± RT
 (2 Posts)
 Not to Scale



SIGN D-2
 STA. 98 + 75 ± LT
 (2 Posts)
 Not to Scale



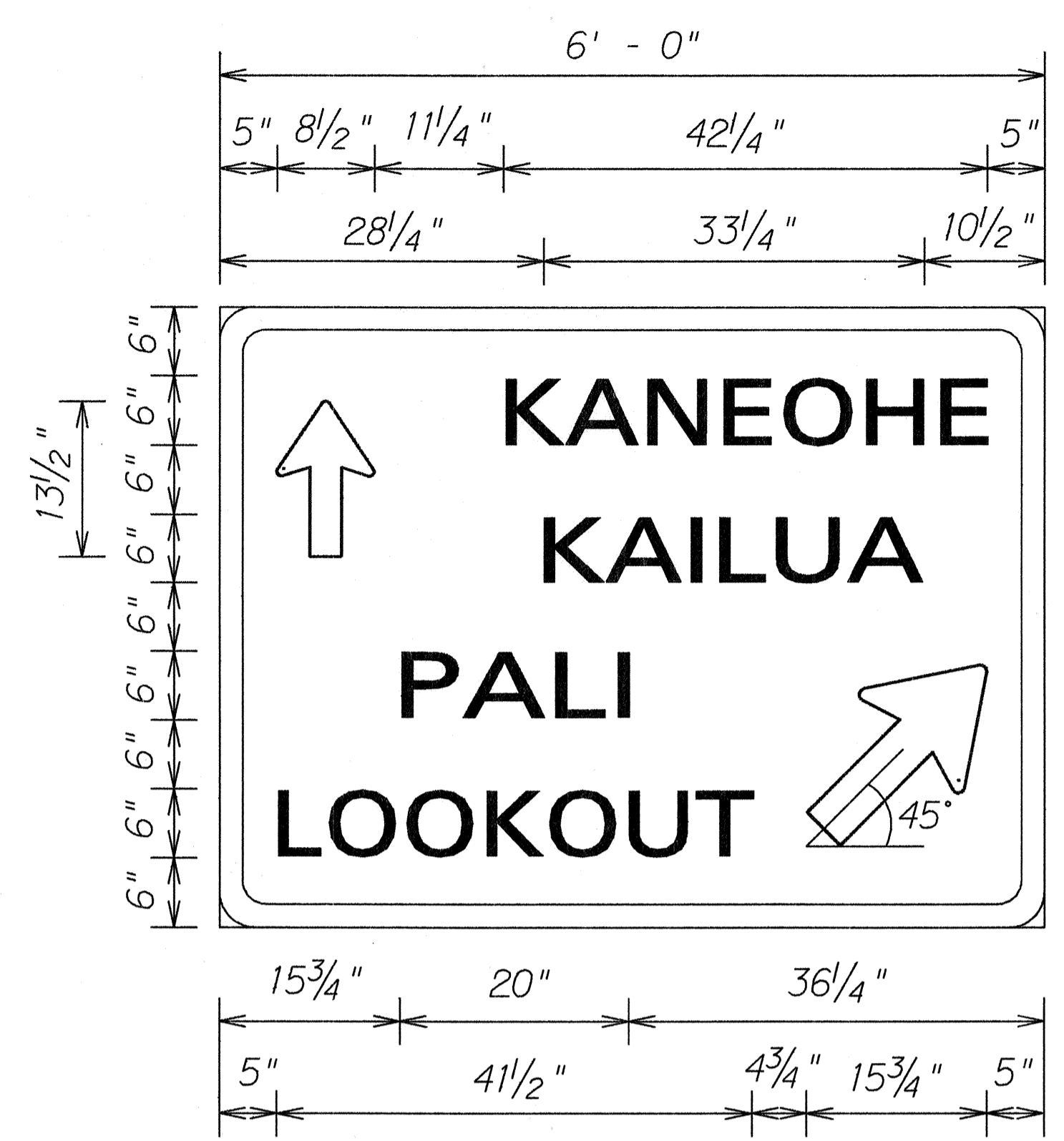
SIGNS D-3 & D-6
 STA. 44 + 93 ± LT & STA. 84 + 50 ± RT
 (2 Posts)
 Not to Scale



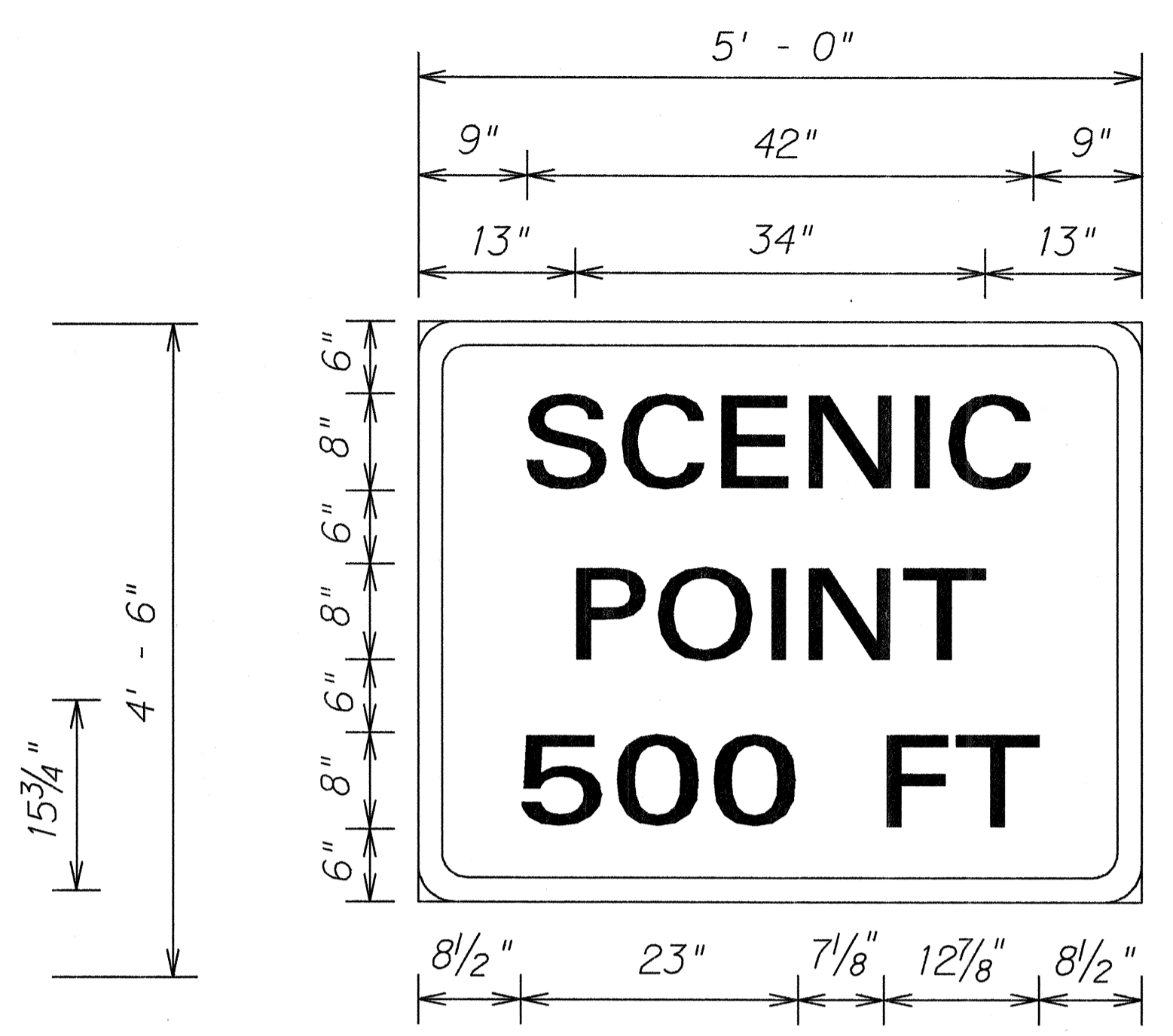
SIGN D-4
 STA. 50 + 00 ± LT
 (Use Exist. Frame & Posts)
 Not to Scale

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
DESTINATION SIGNS
 PALI HIGHWAY RESURFACING
 COUNTRY CLUB ROAD TO
 CASTLE JUNCTION
 PROJ. NO. 61ABC-01-90M
 Date: May 1990
 SHEET No. 718 OF 21 SHEETS

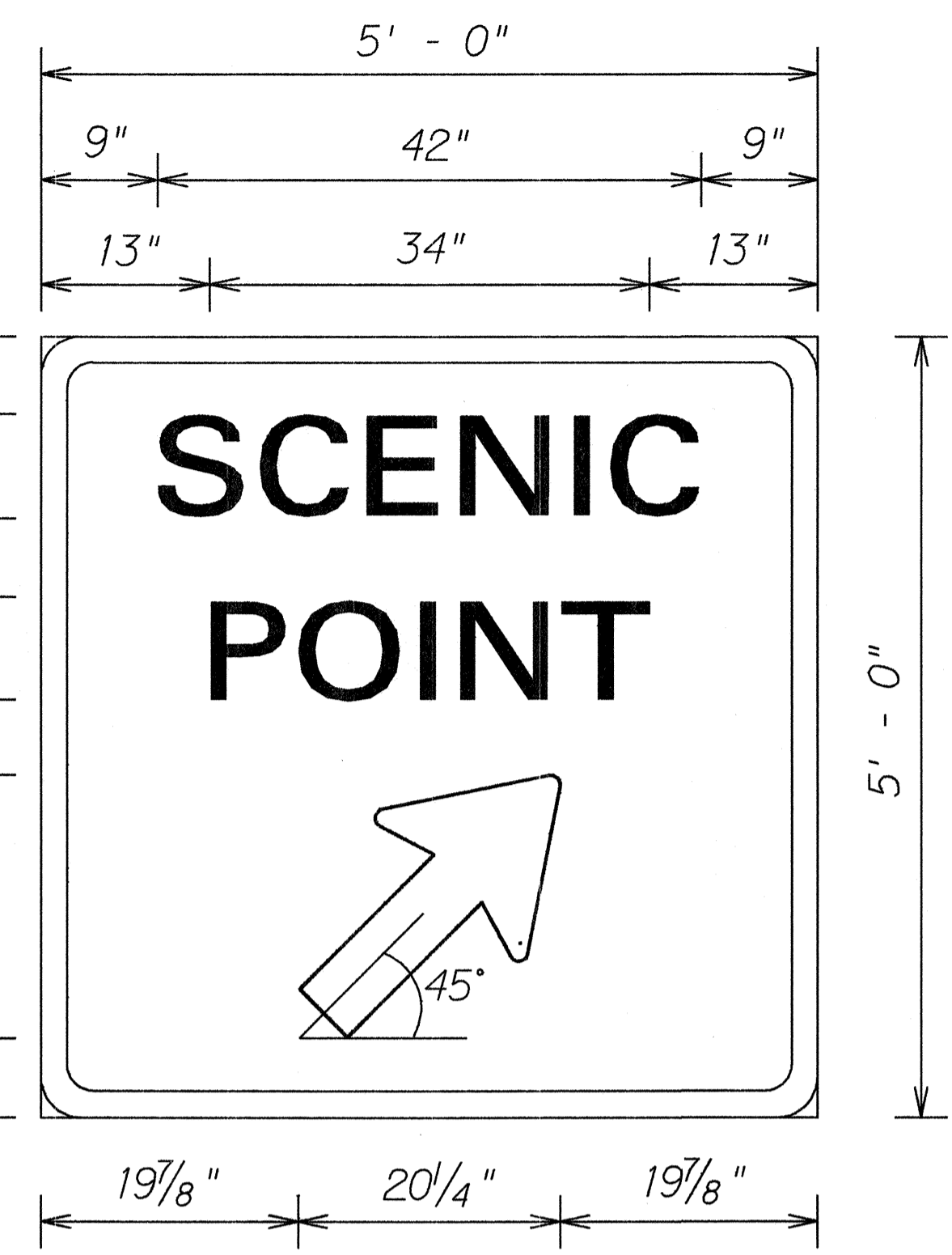
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	42	44



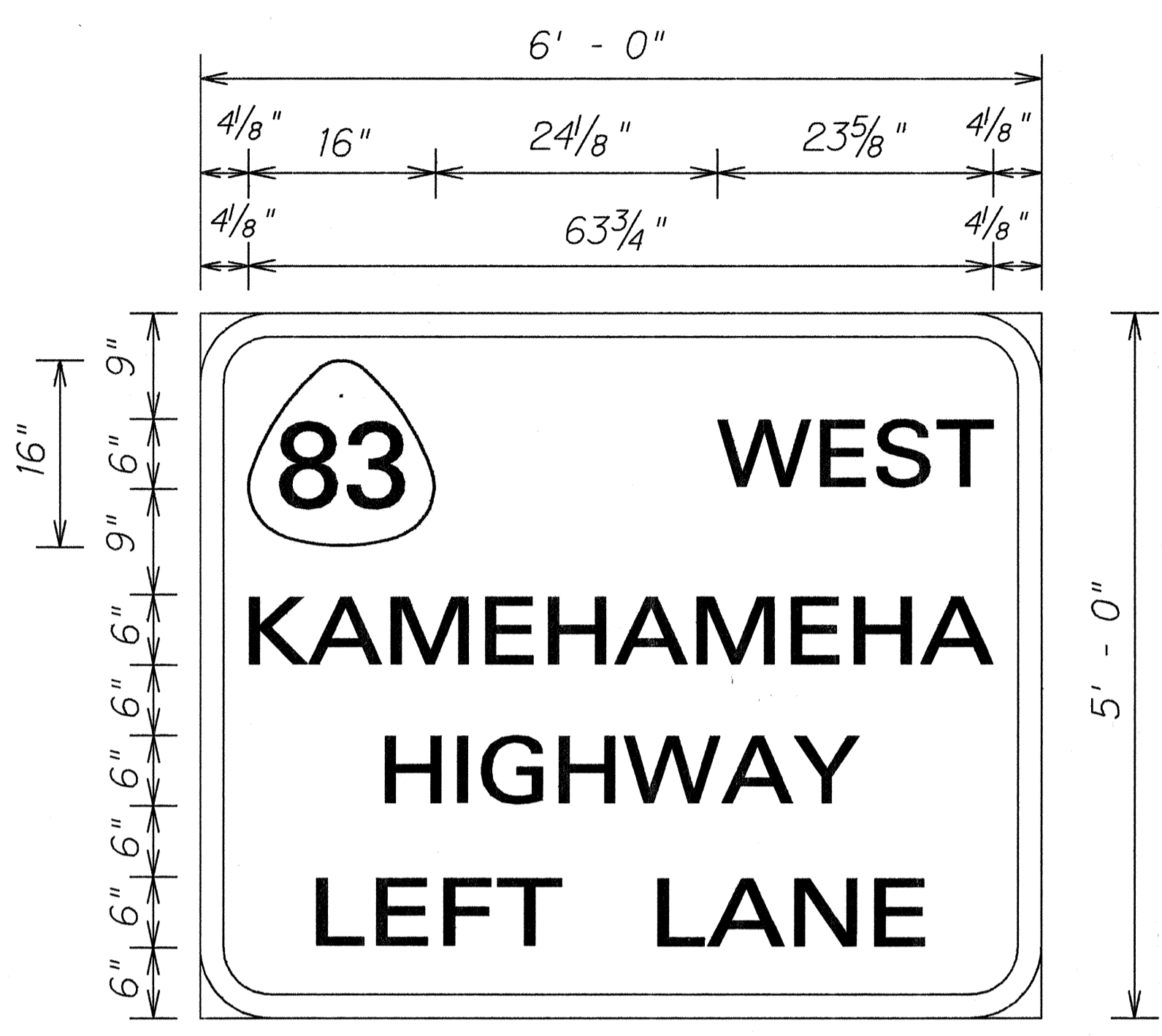
SIGN D-5
 # STA. 72 + 50 ± RT
 (3 Posts)
 Not to Scale



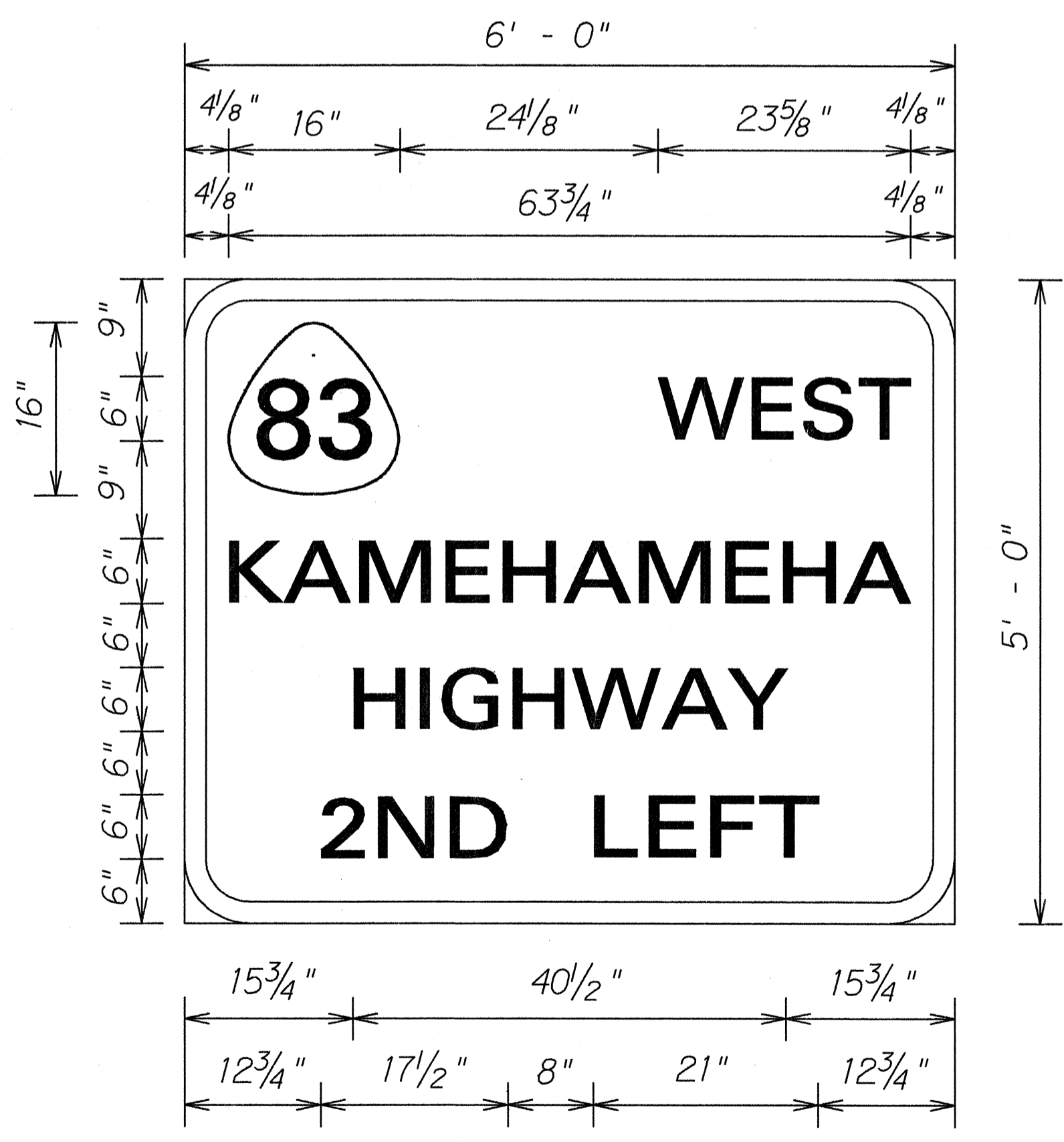
SIGN D-7
 # STA. 148 + 35 ± LT
 (2 Posts)
 Not to Scale



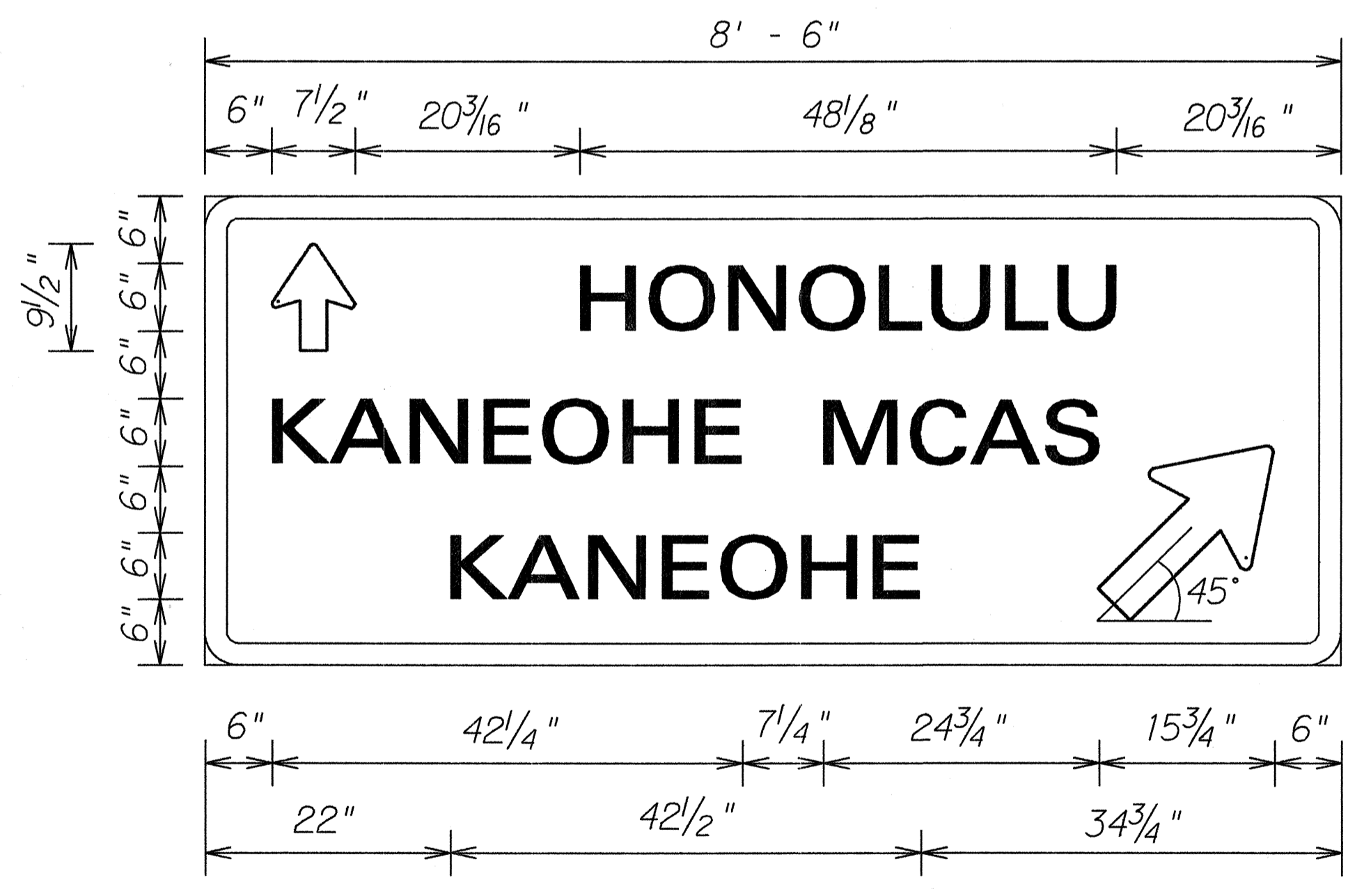
SIGN D-8
 # STA. 154 + 95 ± RT
 (2 Posts)
 Not to Scale



SIGN D-9
 # STA. 179 + 70 ± RT
 (Use Exist. Panel & Posts)
 Not to Scale



SIGN D-10
 # STA. 188 + 35 ± RT
 (3 Posts)
 Not to Scale

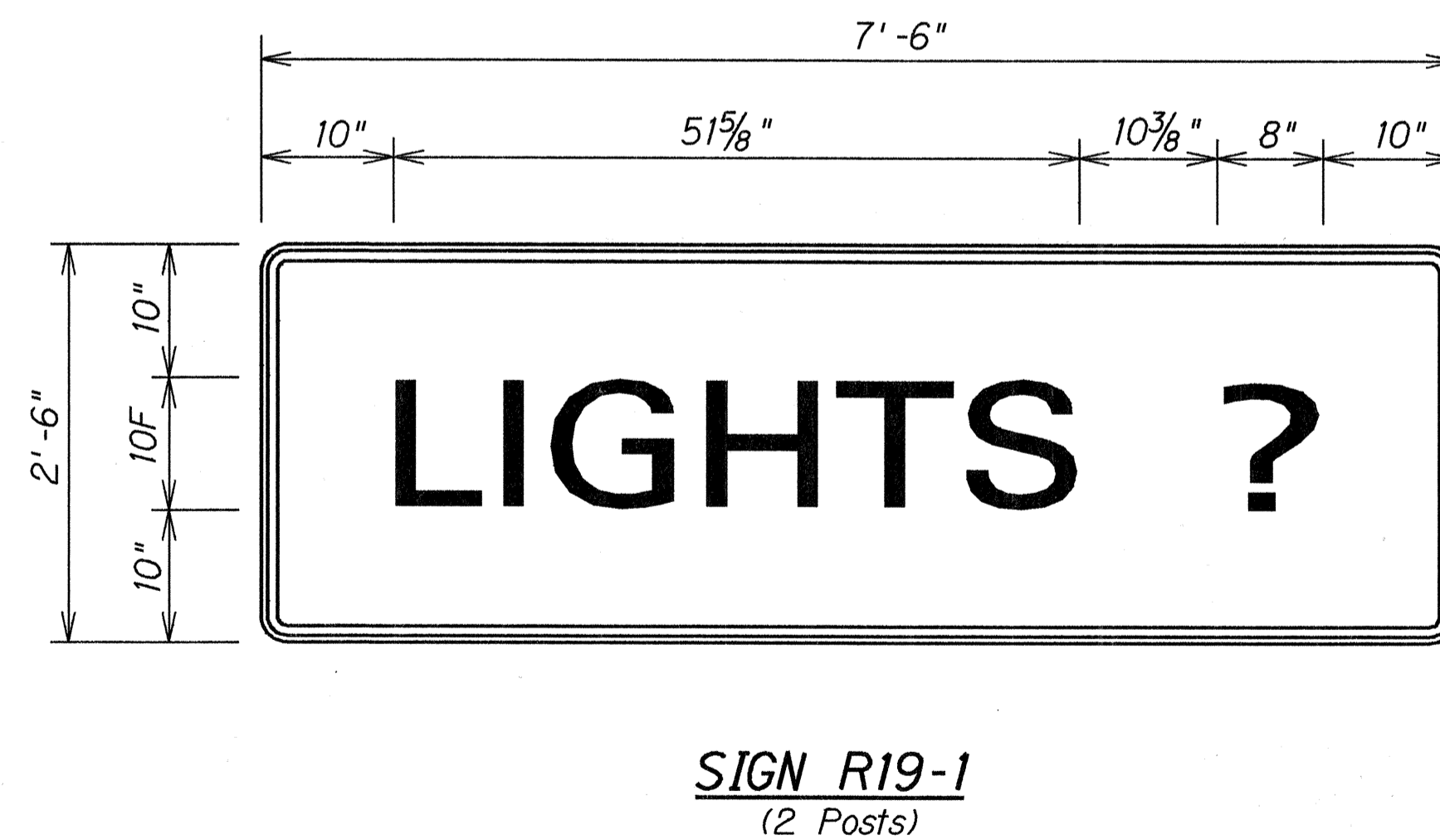
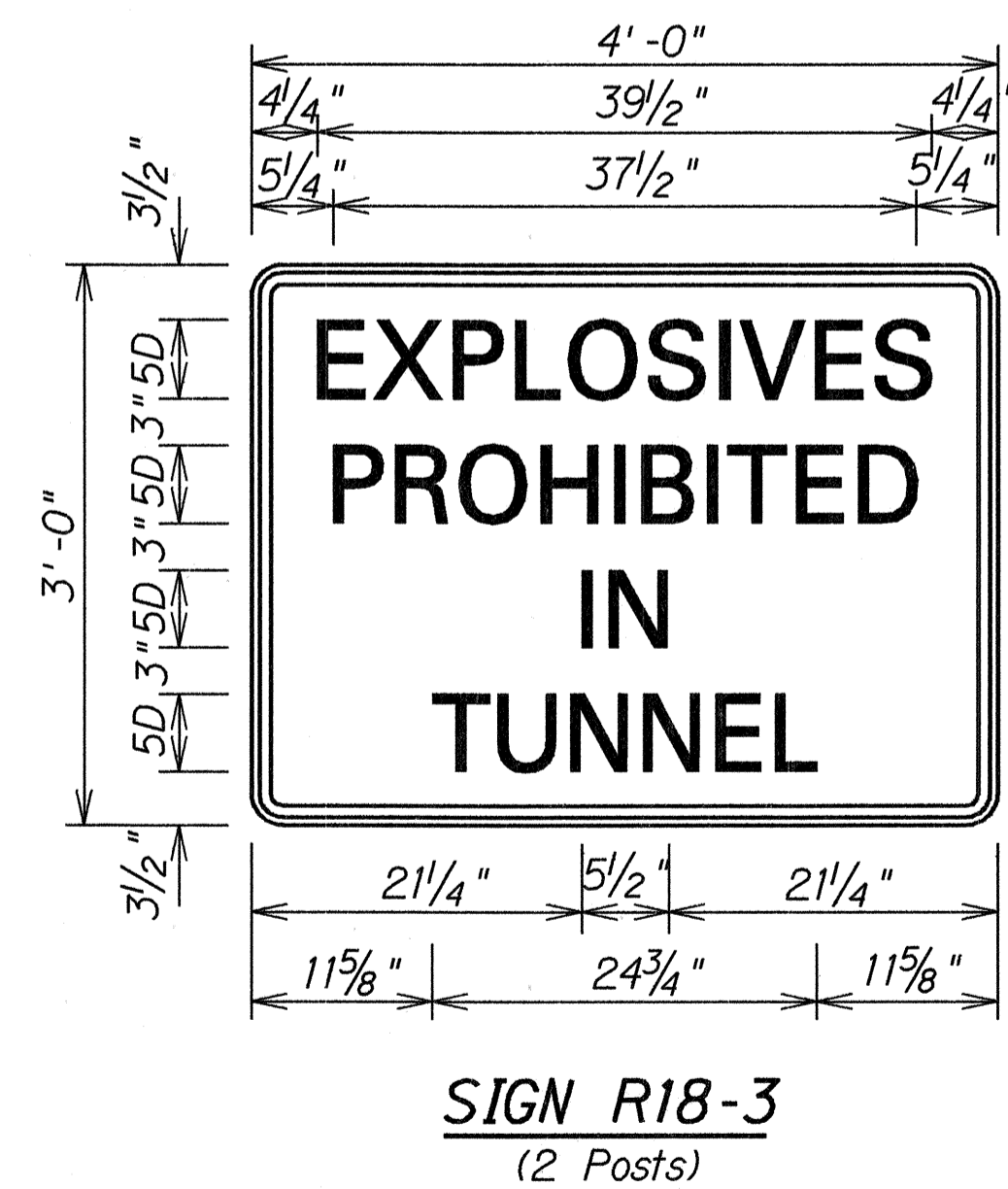
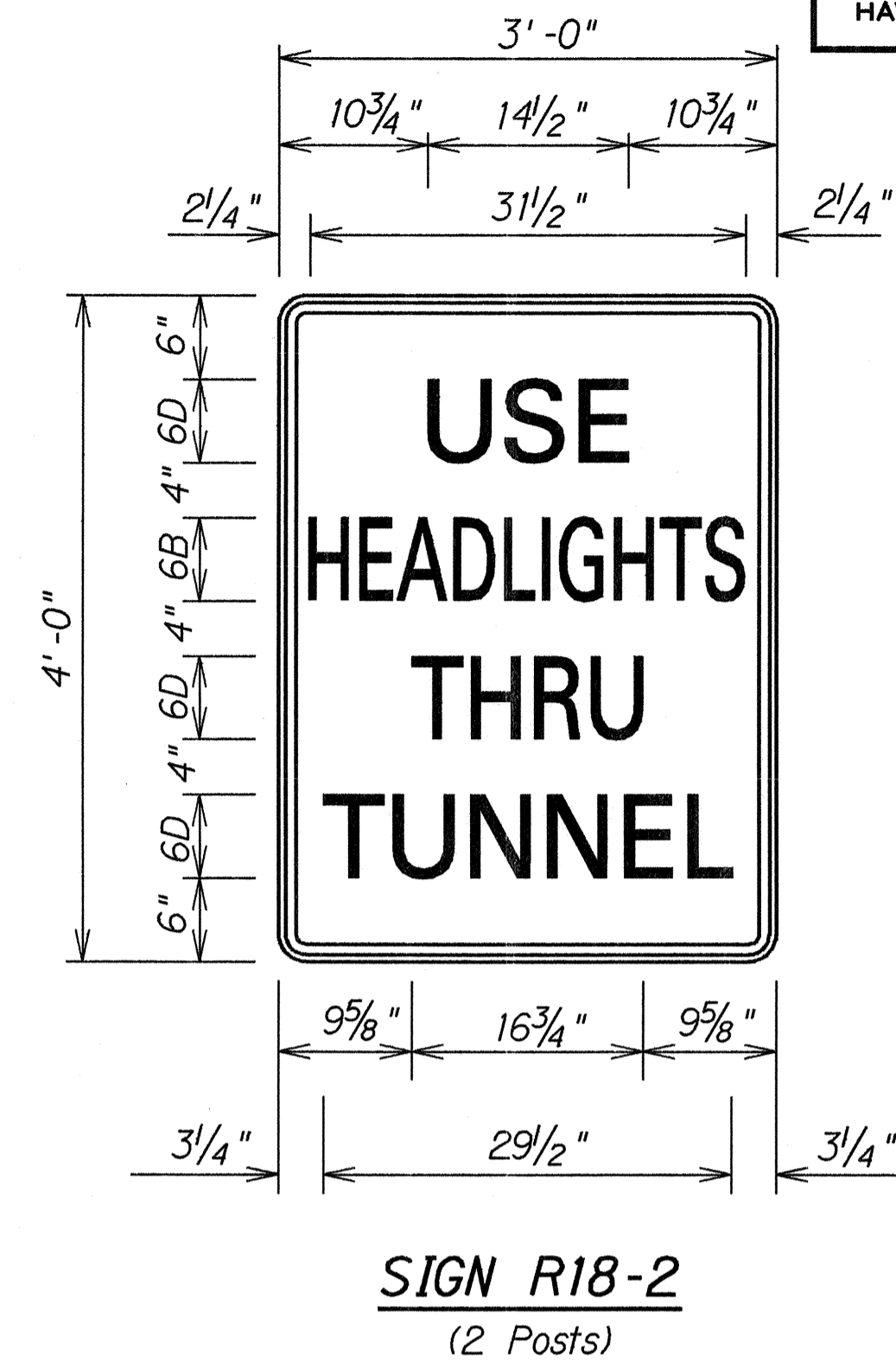
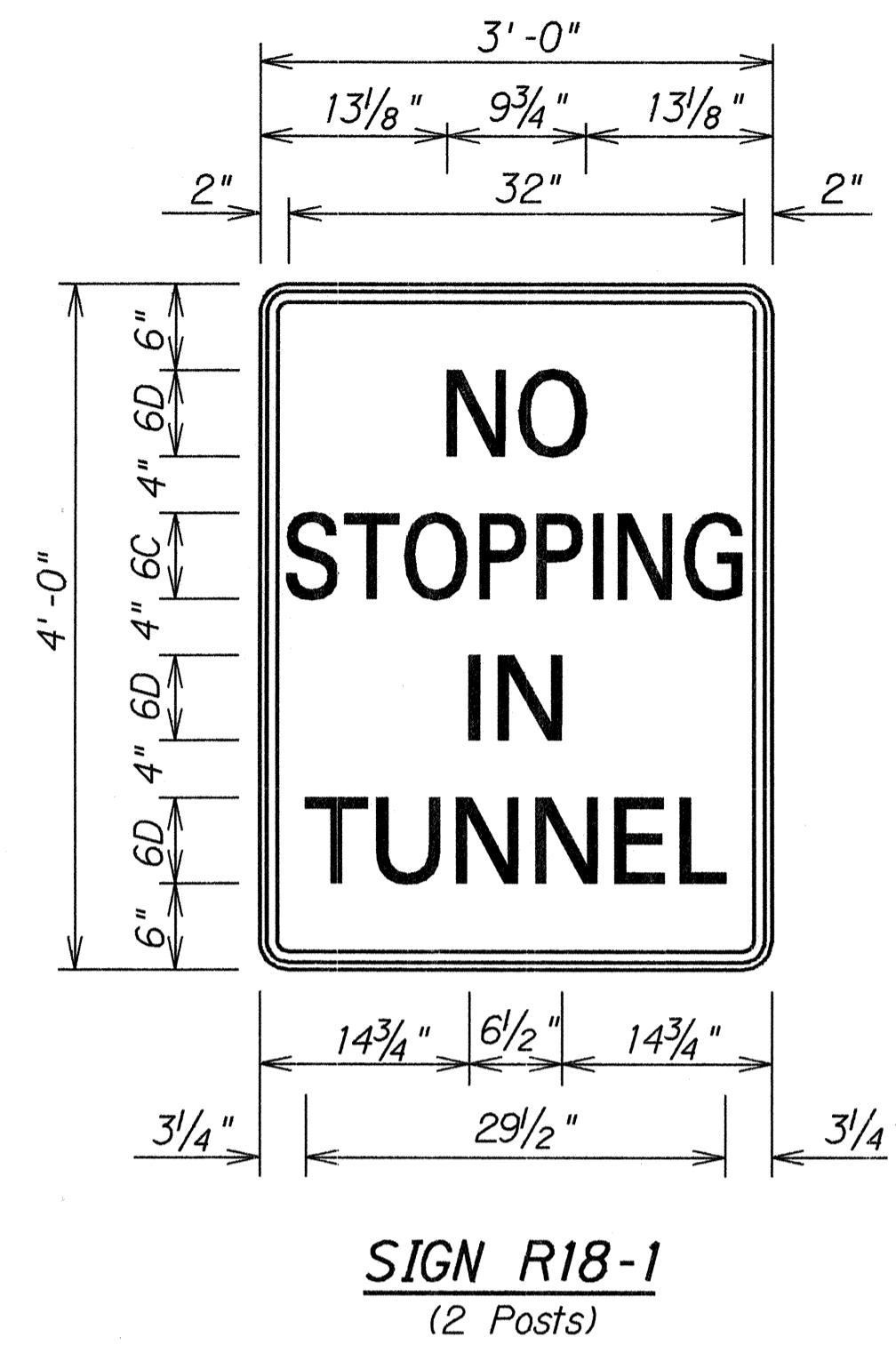
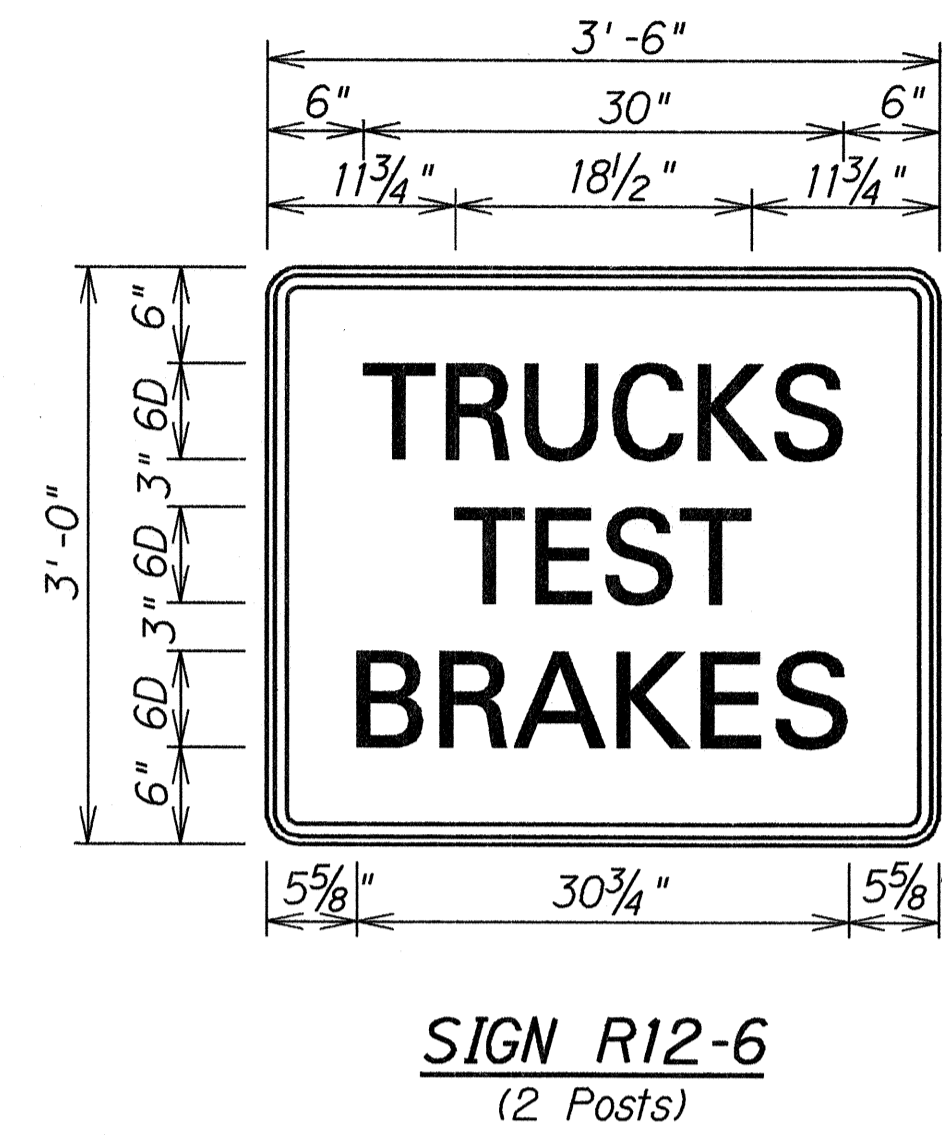
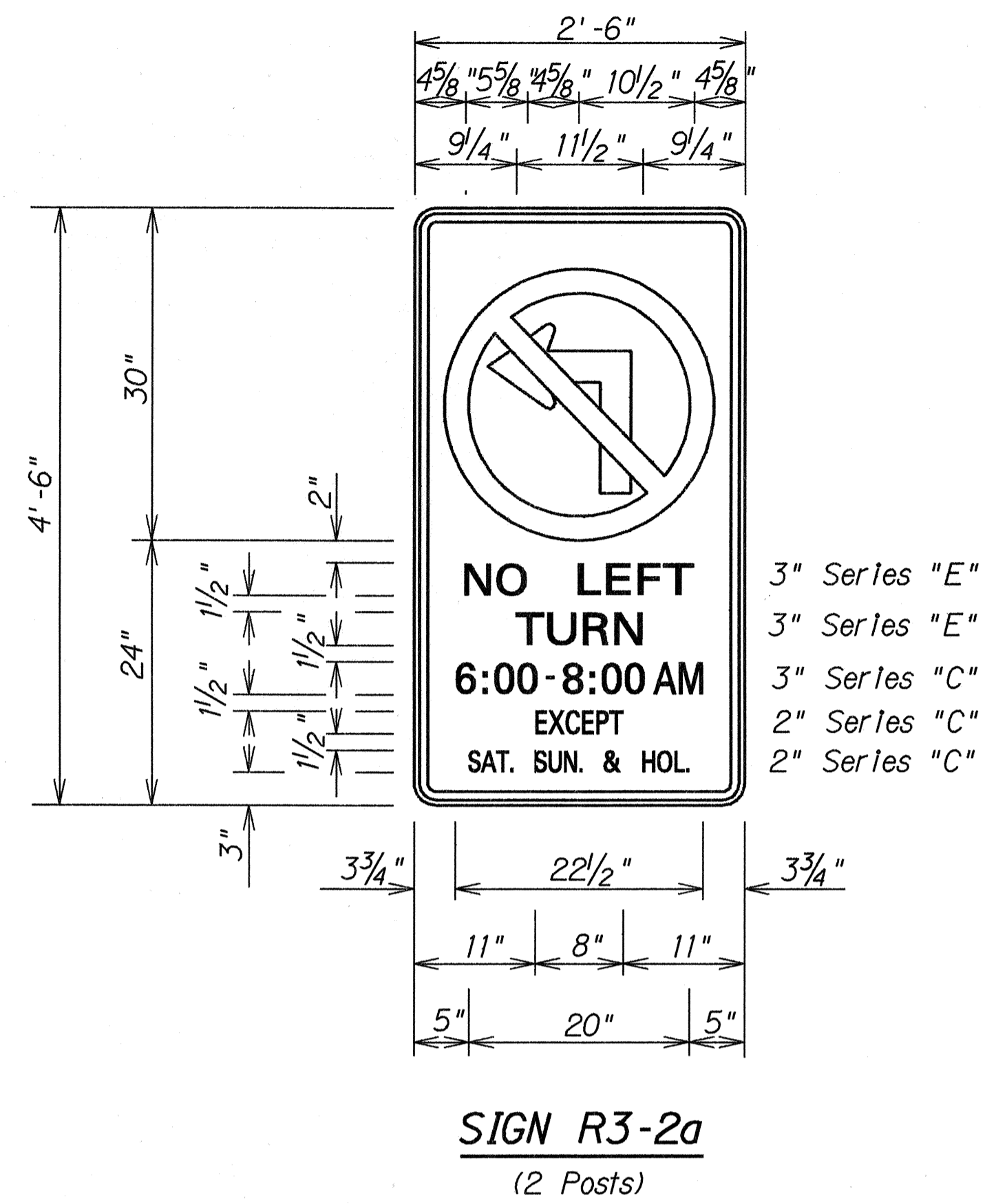


SIGN D-11
 # STA. 203 + 40 ± LT
 (3 Posts)

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
DESTINATION SIGNS
 PALI HIGHWAY RESURFACING
 COUNTRY CLUB ROAD TO
 CASTLE JUNCTION
 PROJ. NO. 61ABC-01-90M
 Date: May 1990
 SHEET No. T19 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	43	44



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

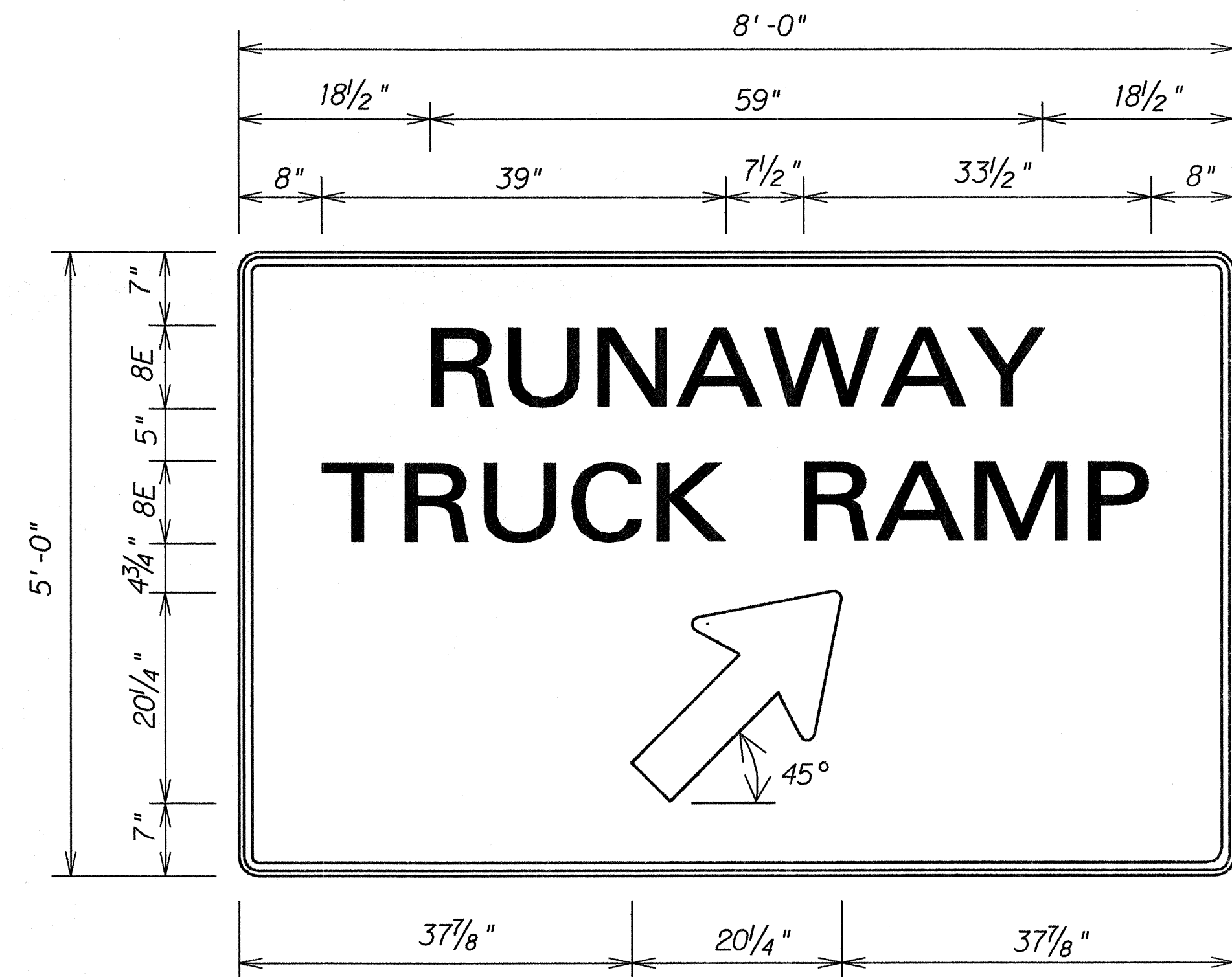
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

MISCELLANEOUS SIGN DETAILS

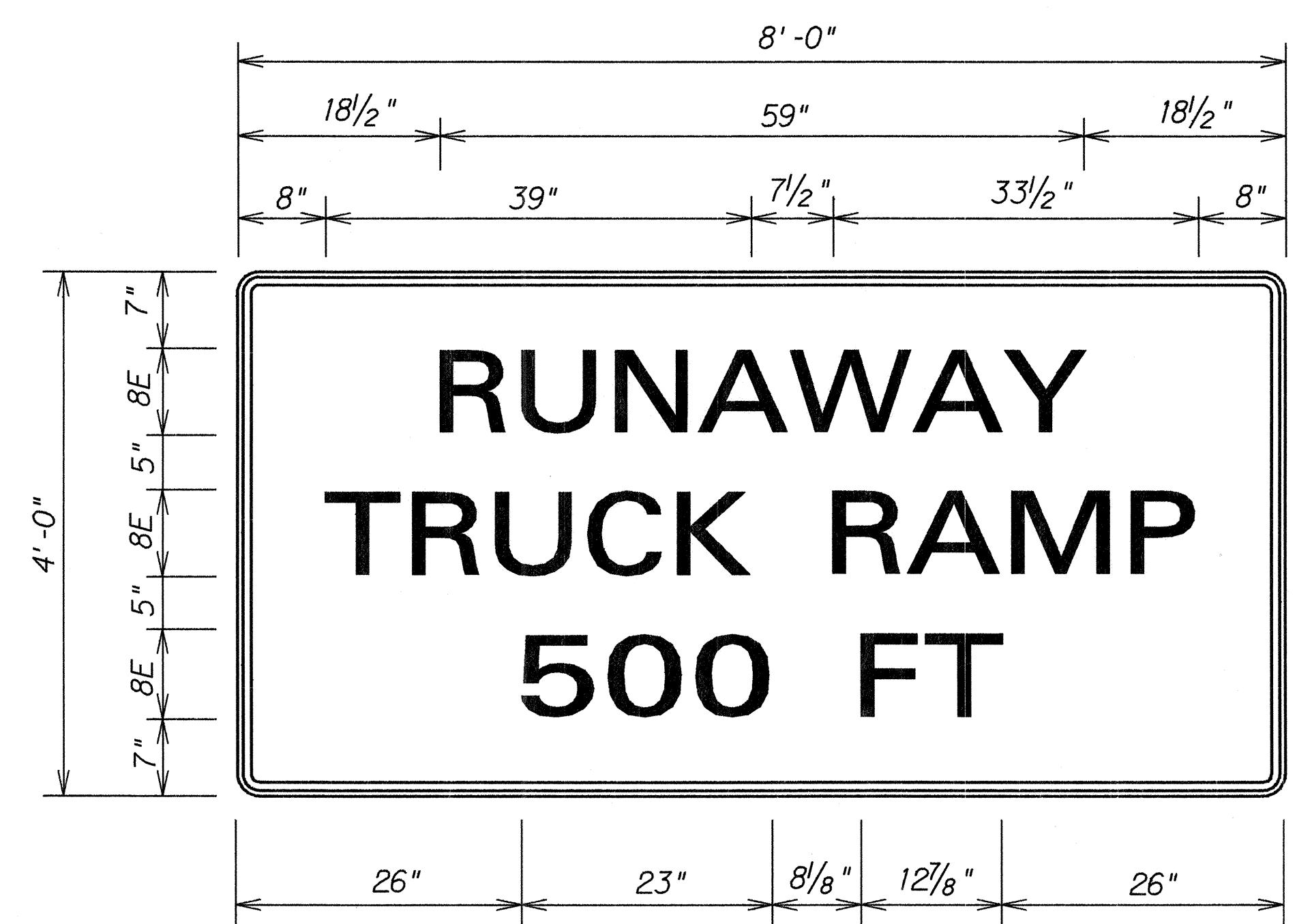
PALI HIGHWAY RESURFACING
 Country Club Rd. to Castle Junction
 Project No. 61ABC-01-90M

Scale: 1" = 1'-0" Date: May, 1990
 SHEET No. T20 OF 21 SHEETS

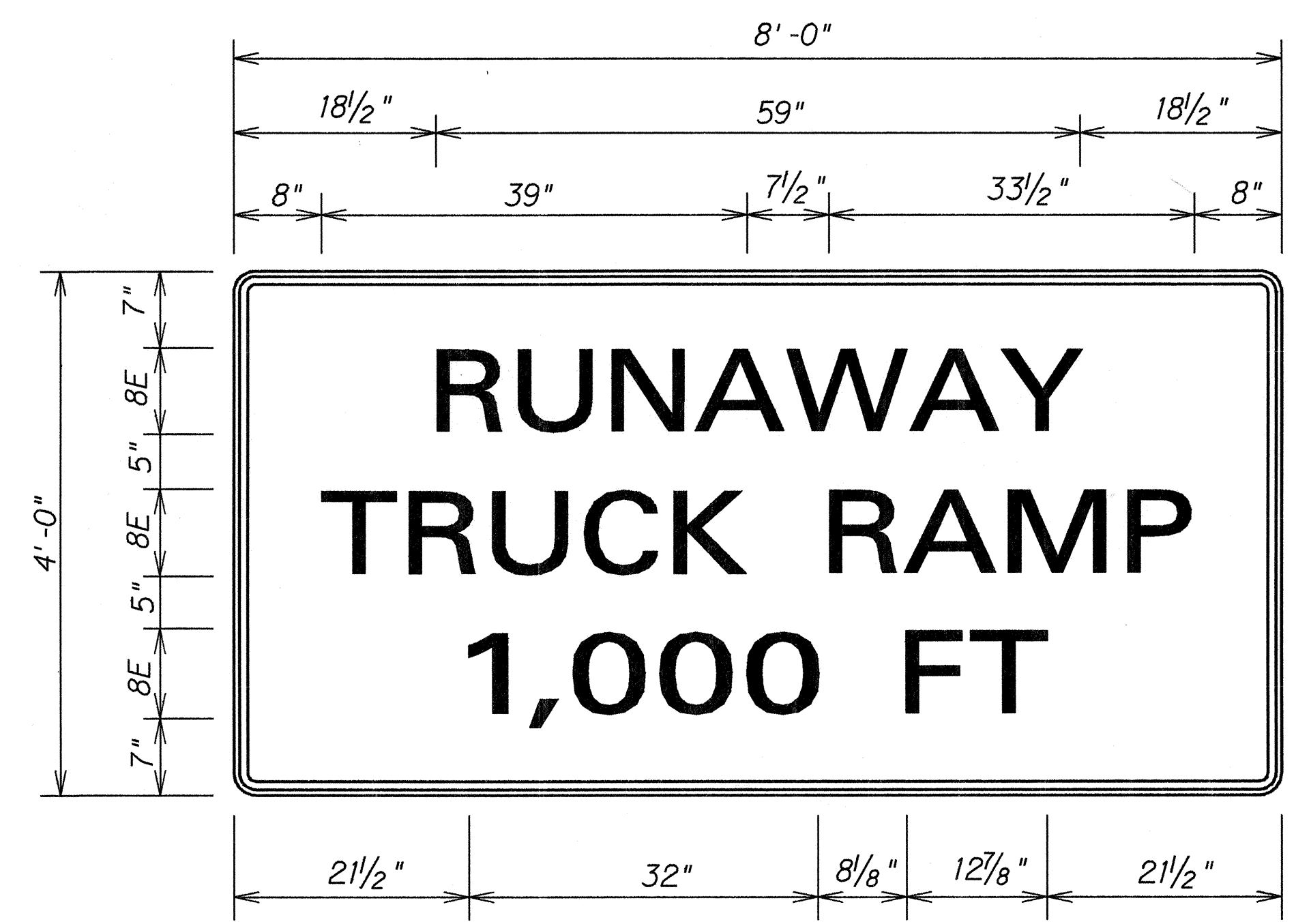
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61ABC-01-90M	1990	44	44



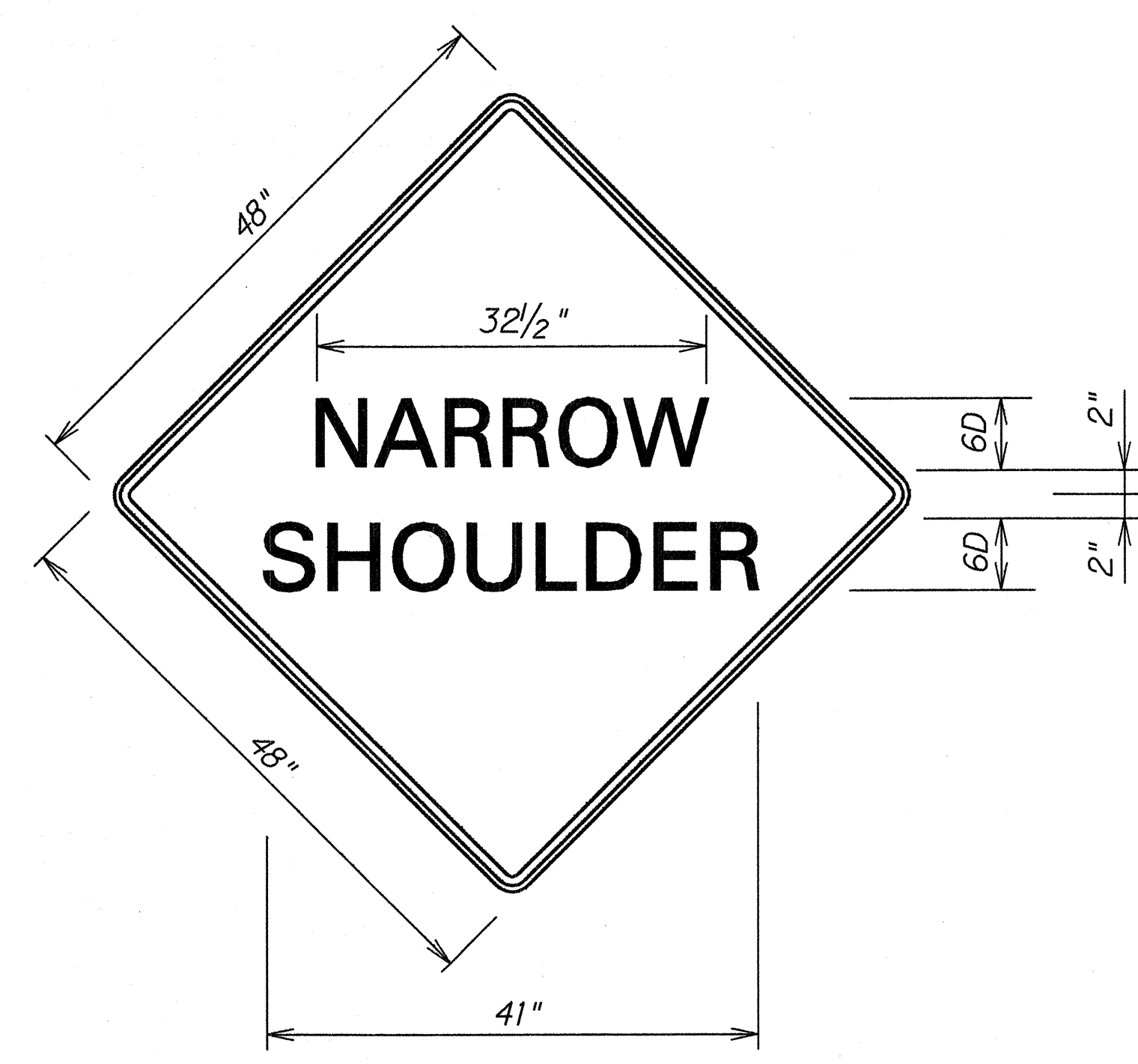
SIGN W7-4a
(3 Posts)



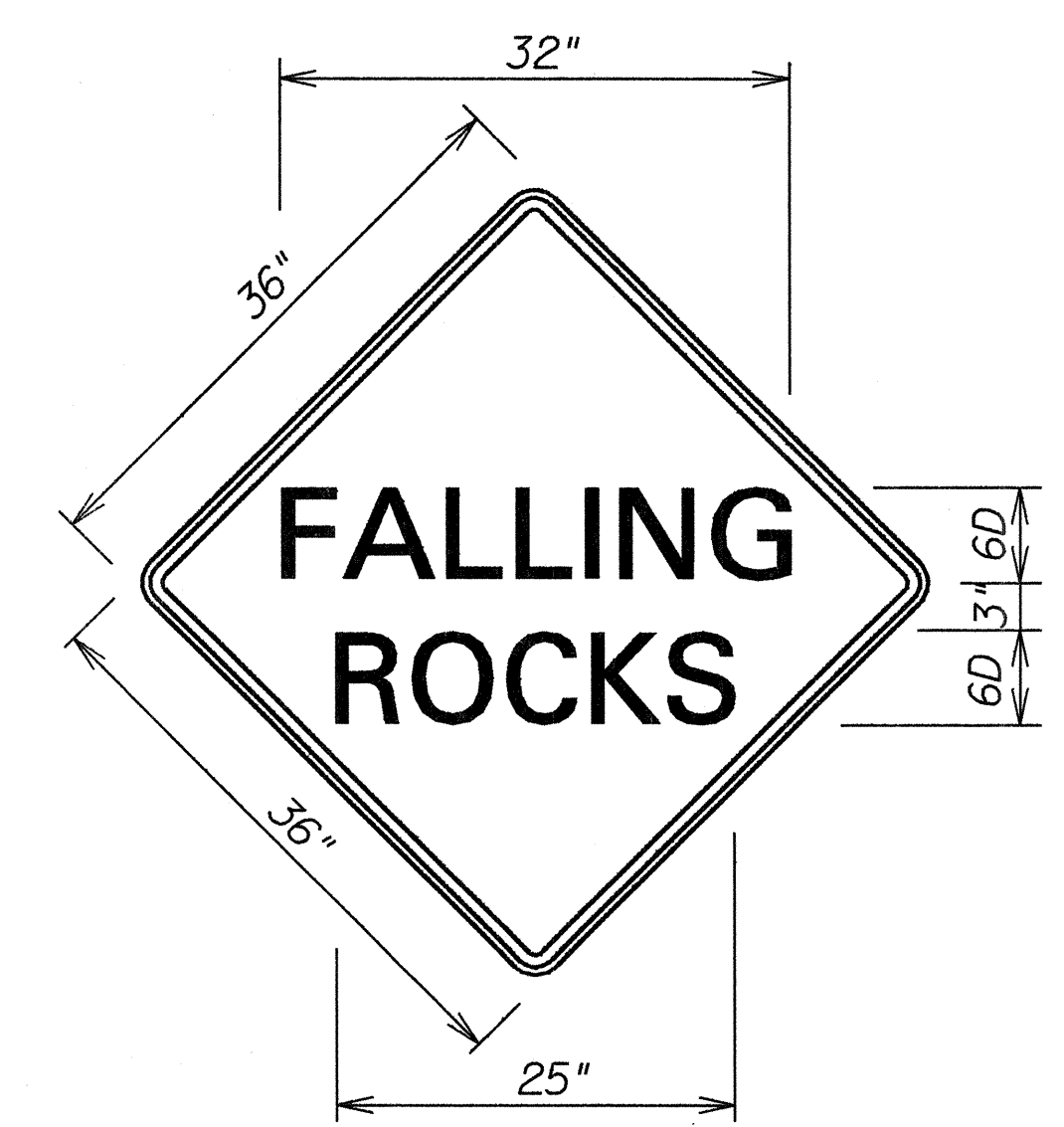
SIGN W7-4b
(3 Posts)



SIGN W7-4c
(3 Posts)



SIGN W8-4a
(2 Posts)



SIGN W15-3
(1 Post)

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SIGN DETAILS

PALI HIGHWAY RESURFACING
Country Club Rd. to Castle Junction
Project No. 61ABC-01-90M

Scale: 1" = 1'-0" Date: May, 1990

SHEET No. T21 OF 21 SHEETS