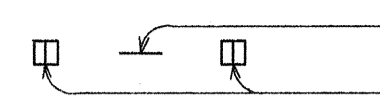
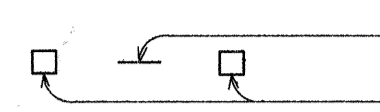
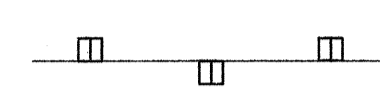




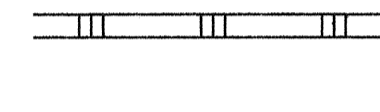




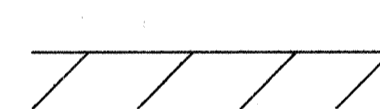
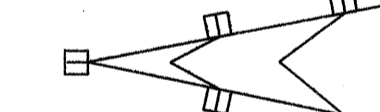
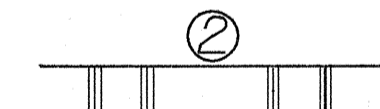



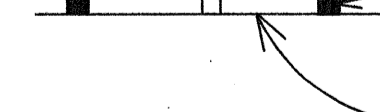


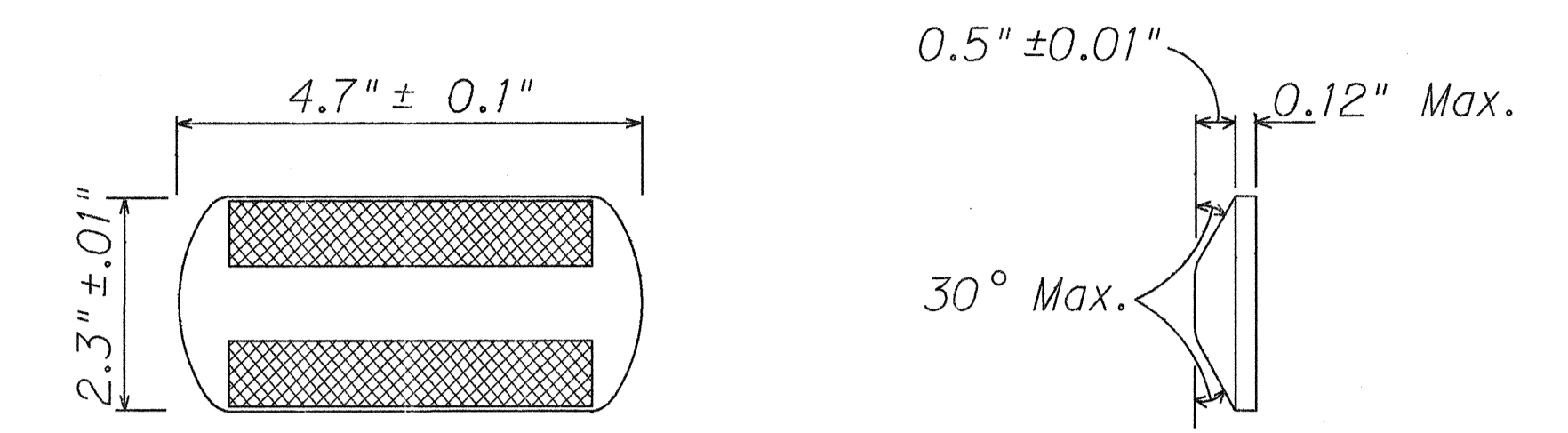
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-90M	1990	9S-1R	11

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)
-  STOP
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

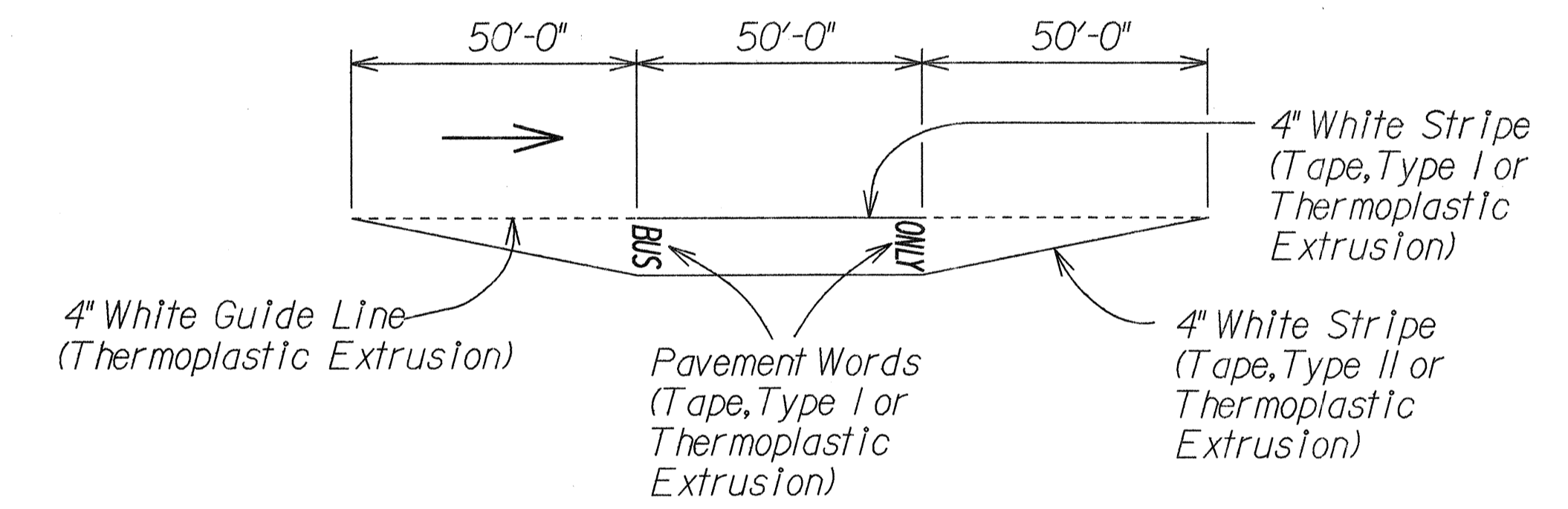
1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement 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

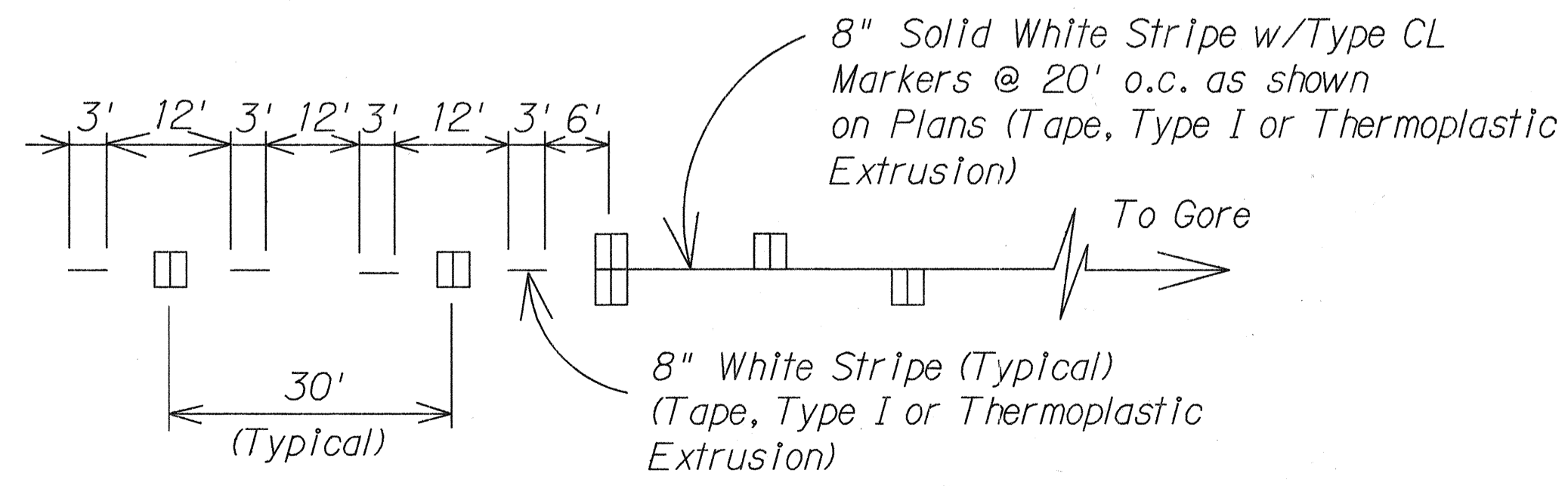
RAISED PAVEMENT MARKER DETAILS

Not to Scale



TYPICAL BUS BAY STRIPING

Not to Scale



LANE DROP MARKING

Not to Scale

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
N.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEGEND AND NOTES

**KANEOHE BAY DRIVE AND
MOKAPU SADDLE ROAD RESURFACING
Kamehameha Hwy. To Kahinani Pl.
Project No. 65A-01-90M**

Scale: As Shown Date: July 1990

SHEET No. 1 OF 1 SHEETS

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A _____	440 Ea.
TYPE CL _____	710 Ea.
TYPE DL _____	170 Ea.
TYPE HL _____	280 Ea.
TYPE J _____	320 Ea.
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	_____
4-INCH PAVEMENT STRIPE (YELLOW) _____	_____
8-INCH PAVEMENT STRIPE (WHITE) _____	1,680 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	_____
12-INCH PAVEMENT STRIPE (YELLOW) _____	_____
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	1,210 L.F.
PAVEMENT ARROW _____	14 Ea.
PAVEMENT WORD _____	14 Ea.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	16,420 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	7,030 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	3,880 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	520 L.F.
12-INCH PAVEMENT STRIPE (YELLOW) _____	340 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	1,690 L.F.
THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	2,600 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	500 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	740 L.F.
CROSSWALK MARKINGS _____	72 LANE

CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POSTS	W/O POST
CW20-1d	Kam Hwy $\frac{1}{2}$ Sta. 34+00± Median	ROAD CONSTRUCTION AHEAD	1	
CW20-1d	Kam Hwy $\frac{1}{2}$ Sta. 44+00± Median	ROAD CONSTRUCTION AHEAD	1	
CW20-1d	Likelike Hwy $\frac{1}{2}$ Sta. 126+00± Rt.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Likelike Hwy $\frac{1}{2}$ Sta. 126+00± Lt.	END CONSTRUCTION	1	
CW20-1d	Mokapu Saddle Rd. I.B. $\frac{1}{2}$ Sta. 16+00 Lt.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Mokapu Saddle Rd. I.B. $\frac{1}{2}$ Sta. 23+00 Rt.	END CONSTRUCTION	1	
TOTAL			6	

REFLECTOR MARKER SUMMARY

TYPE	QUANTITY					
	W/O POST		W/FLEXIBLE POST		W/STEEL POST	
	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE
RM-1				16		
RM-2	20	30				
RM-3			12		12	
RM-4(L)					2	
RM-4(R)					2	
RM-9			1			

OBJECT MARKER SUMMARY

TYPE	QUANTITY		
	W/O POST	W/FLEXIBLE POST	W/STEEL POST
TYPE II	180		
TOTAL	180	0	0

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING, STRIPING & MARKING
SUMMARIES
 KANEOHE BAY DR. AND
 MOKAPU SADDLE RD. RESURFACING
 Kamehameha Hwy to Kahlanani Pl.
 Project No. 65A-01-90M
 Date: May, 1990
 SHEET No. 11 OF 2 SHEETS

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-A	STOP	10			
R1-2	YIELD	1			
R2-1(35) 36"x48"	SPEED LIMIT 35			11	2
R3-1 36"x36"	NO RIGHT TURN	1			
R3-4 36"x36"	NO U TURN	12			
R3-8A(L) 30"x36"	ONLY ↑	1			
R4-7 36"x48"	KEEP RIGHT			1	
R6-1(R)	ONE WAY	2			
R7-1-A	NO PARKING ANY TIME ↔	2			
R7-3a	NO PARKING EXCEPT SAT, SUN, AND HOLIDAYS ↔	9			
R7-4-A	NO STOPPING OR STANDING ↔	1			
R7-10	NO PARKING BUS LOADING ZONE 7:00 AM TO 3:30 PM SCHOOL DAYS ONLY ↔	1			
R7-10a(L)	NO PARKING BUS LOADING ZONE 7:00 AM TO 3:30 PM SCHOOL DAYS ONLY ←	1			
R7-10a(R)	NO PARKING BUS LOADING ZONE 7:00 AM TO 3:30 PM SCHOOL DAYS ONLY →	1			
R7-11	PASSENGER CURB LOADING ZONE 7AM TO 3PM SCHOOL DAYS ONLY	3			
R7-107a	BUS STOP	12			
R7-201 36"x24"	TOW-AWAY ZONE		5		
R7-201-a 24"x12"	TOW-AWAY ZONE		10		
R8-3a 36"x36"	Ⓟ	10			
R9-3a-A	NO PEDESTRIAN CROSSING	2	2		
R10-7 30'x36"	DO NOT BLOCK INTERSECTION	1			
R16-1 30"x36"	TURN RIGHT ANY TIME WITH CAUTION	1			
R16-7 30"x36"	U TURN OK	1			
W1-2(L) 36"x36"	↙	1			
W3-3 36"x36"	SIGNAL AHEAD	1			
W4-2(L) 36"x36"	MERGE LEFT	1			
W6-1 36"x36"	DIVIDED HIGHWAY	1			
W6-2 36"x36"	DIVIDED HIGHWAY ENDS	1			
W9-2(L) 36"x36"	LANE ENDS MERGE LEFT	1			
W14-1 36"x36"	DEAD END		1		
TOTAL		78	18	12	2

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	OVERLAY AREA (SQ. FT.)	NEW PANEL AREA (SQ. FT.)	
					W/O POST	W/POSTS
D-1	Kaneohe Bay Dr. I.B. Sta. 6+81± Lt.	↑ HONOLULU ← KAILUA KANEOHE ↗	6'-0" x 3'-6"			21
D-2	Kaneohe Bay Dr. O.B. Sta. 7+65± Median	↑ MOKAPU ← KANEOHE BAY DRIVE	5'-6" x 3'-6"			20
TOTAL						41

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-90M	1990	CO 11	11

ROUTE MARKER SUMMARY

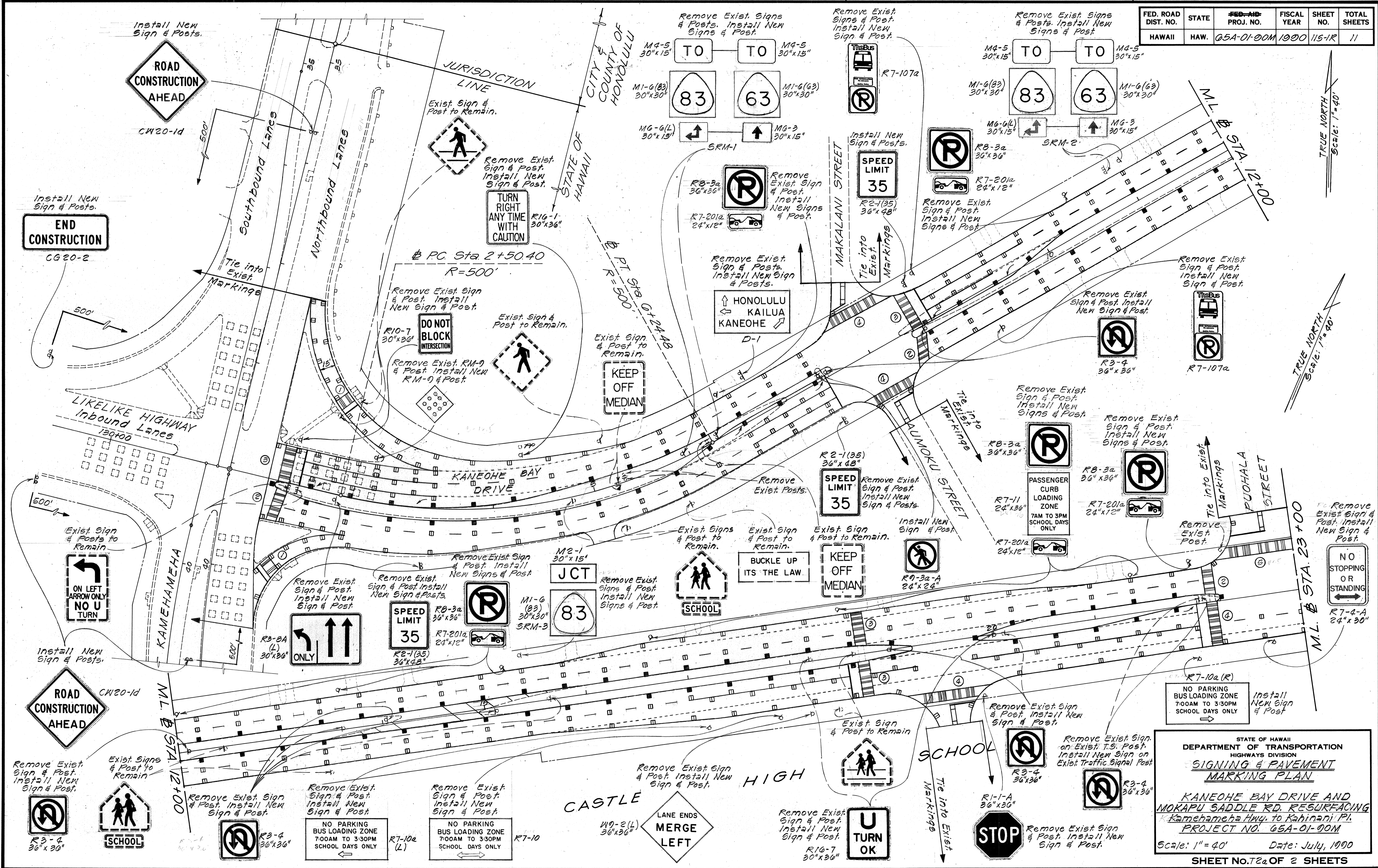
SIGN ASSEMBLY	LOCATION	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY		TYPE B ASSEMBLY	
			W/POST	W/O POST	W/POST	W/O POST
SRM-1	Kaneohe Bay Dr. I.B. Sta. 5+95± Median	M4-5 TO M1-6(83) 83 M6-6(L) ↖ M4-5 TO M1-6(63) 63 M6-3 ↑			1	
SRM-2	Kaneohe Bay Dr. I.B. Sta. 10+92± Lt.	M4-5 TO M1-6(83) 83 M6-6(L) ↖ M4-5 TO M1-6(63) 63 M6-3 ↑			1	
SRM-3	Kaneohe Bay Dr. I. B. Sta. 15+40± Lt.	M2-1 JCT M1-6(83) 83	1			
TOTAL			1	—	2	—

7/12/90 Revised Traffic Sign Summary
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING, STRIPING & MARKING SUMMARIES
KANEOHE BAY DR. AND MOKAPU SADDLE RD. RESURFACING
Kamehameha Hwy to Kahinani Pl.
Project No. 65A-01-90M
Date: May, 1990
SHEET No. T2 OF 2 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	05A-01-00M	1990	115-1R	11



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

KANEOHE BAY DRIVE AND MOKAPU SADDLE RD. RESURFACING
Kamehameha Hwy. to Kahinani Pl.
PROJECT NO. 05A-01-00M

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

SHEET NO. 12 OF 2 SHEETS

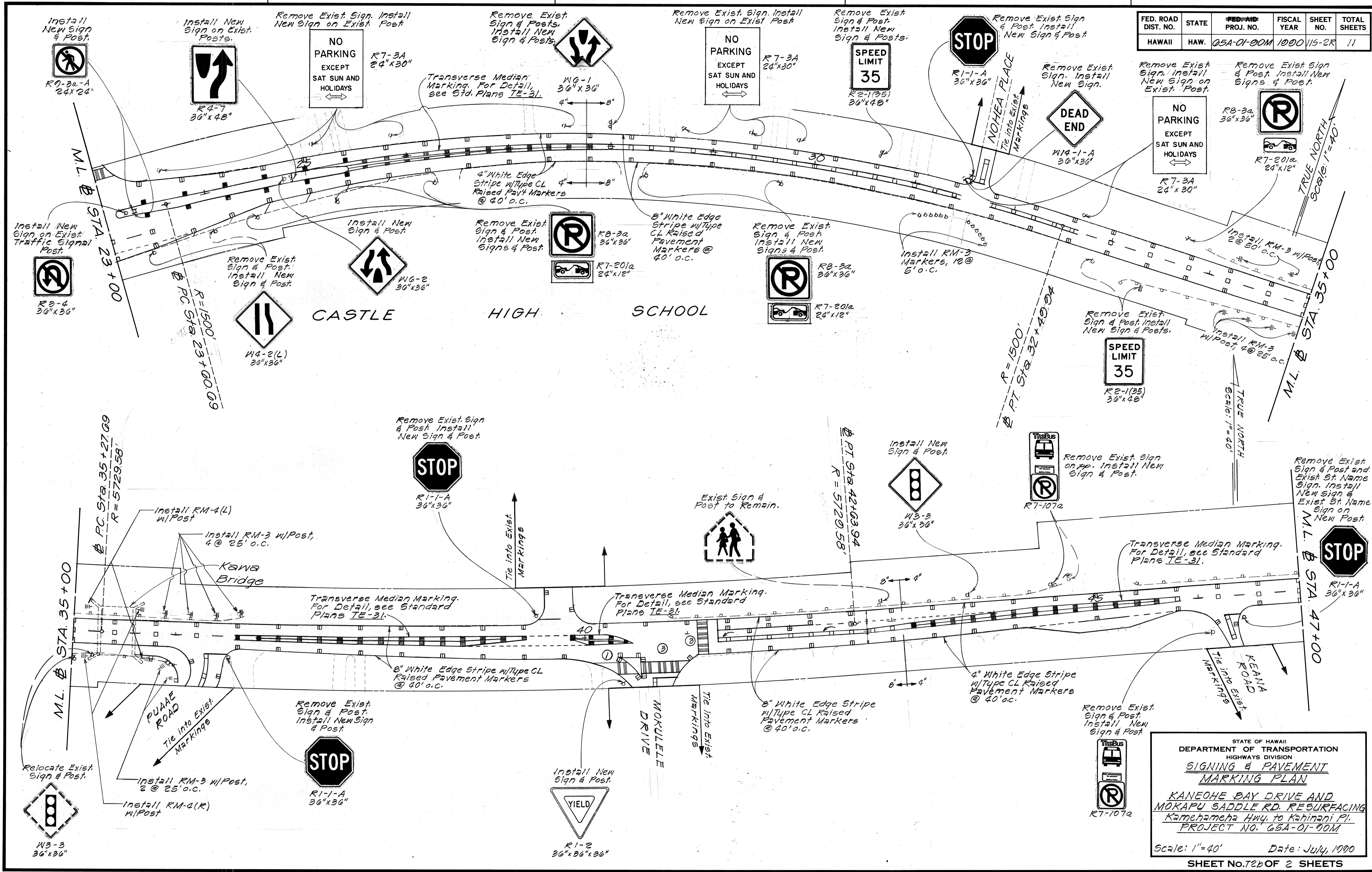
TRUE NORTH
Scale: 1" = 40'

TRUE NORTH
Scale: 1" = 40'

TRUE NORTH
Scale: 1" = 40'

IS-1R

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	05A-01-00M	1990	115-2R	11

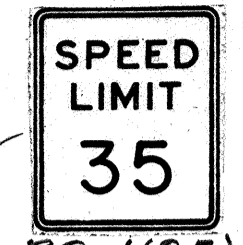


DATE
SURVEY PLOTTED BY
ORIGINAL PLAN
DRAWN BY
TRACED BY
DESIGNED BY
CHECKED BY
NO.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
KANEIHE BAY DRIVE AND MOKAPU SADDLE RD. RESURFACING
Kamehameha Hwy. to Kahinani Pl.
PROJECT NO. 05A-01-00M
Scale: 1"=40' Date: July, 1990
SHEET No. 115-2R OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED- HS PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-90M	1990	115-4R	11

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



R2-1(35)
30" x 48"

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



R7-107a

TRUE NORTH
Scale: 1"=40'

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

EXCEPTION
PROJ. No. 65A-01-80

M.L. # STA 72+00

M.L. # STA 84+00

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



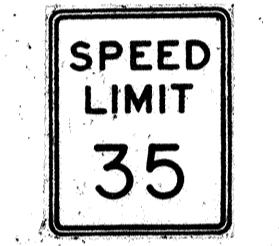
R7-107a

R=1909.86'
PT. Sta 75+43.81

MIHA ST.

Tie into Exist. Markings

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



R2-1(35)
30" x 48"

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



R7-107a

Tie into Exist. Markings

PC Sta 82+70.02
R=700'

TRUE NORTH
Scale: 1"=40'

DRIVE

MIKIOLA

M.L. # STA 95+00

M.L. # STA 84+00

KOKOKAHI PLACE

R=700'
PT. Sta 80+95.88

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

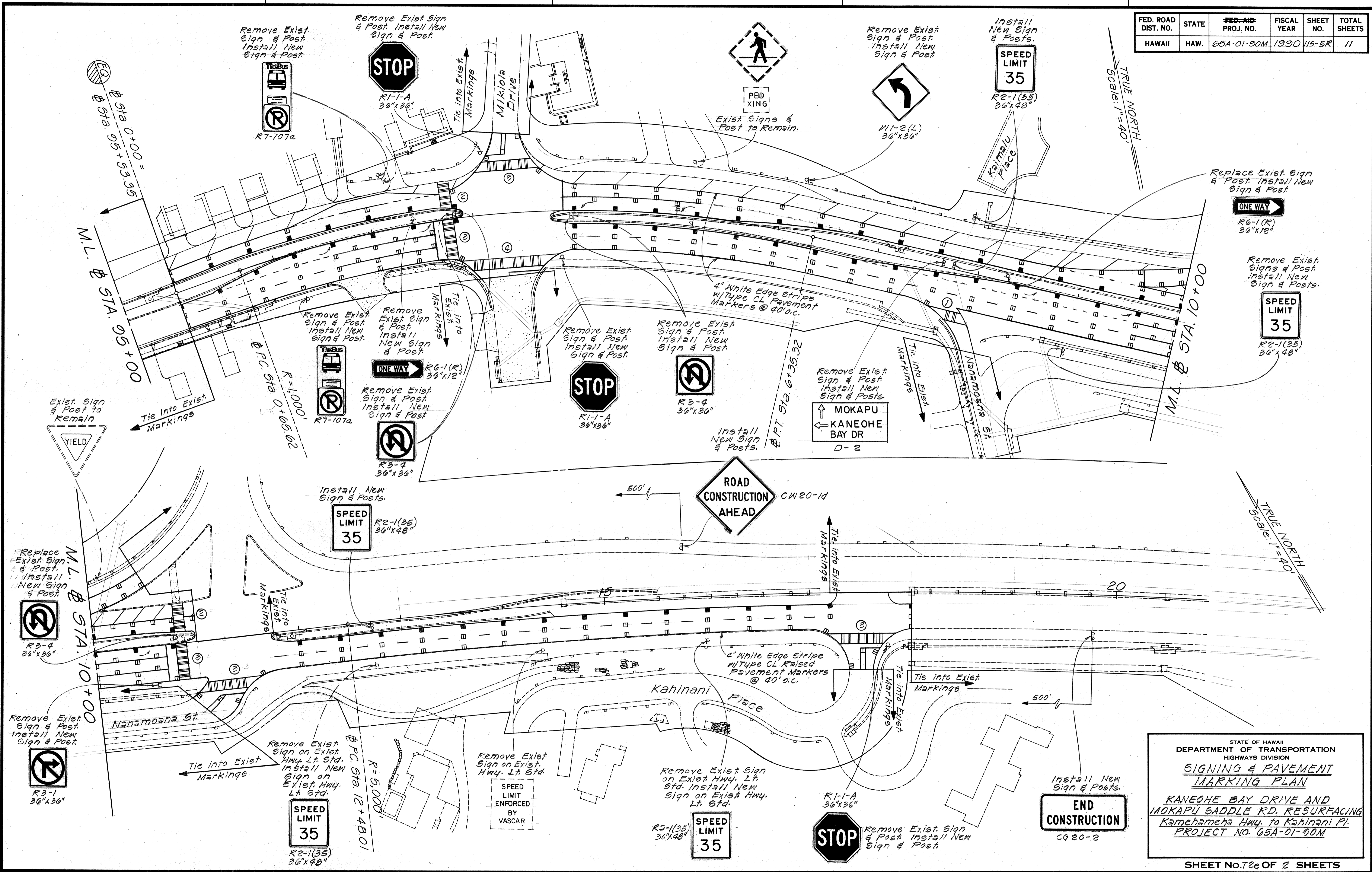
SIGNING & PAVEMENT MARKING PLAN

KANEIHE BAY DRIVE AND
MOKAPU SADDLE RD. RESURFACING
Kamehameha Hwy. to Kahinani Pl.
PROJECT NO. 65A-01-90M

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

SHEET No. 11 of 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-90M	1990	115-5R	11



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

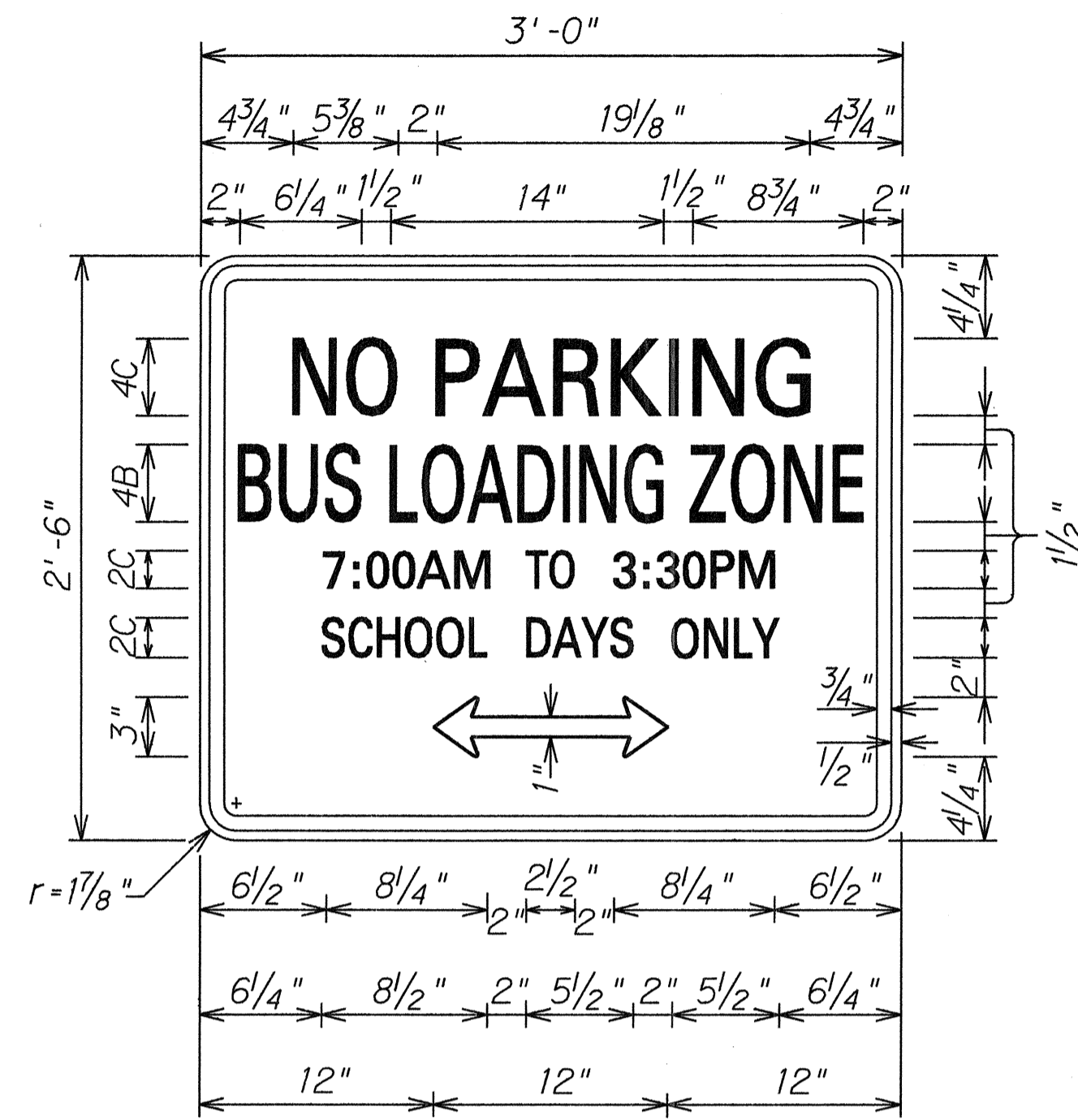
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KANEOHE BAY DRIVE AND MOKAPU SADDLE RD. RESURFACING
Kamehameha Hwy. to Kahinani Pl.
PROJECT NO. 65A-01-90M

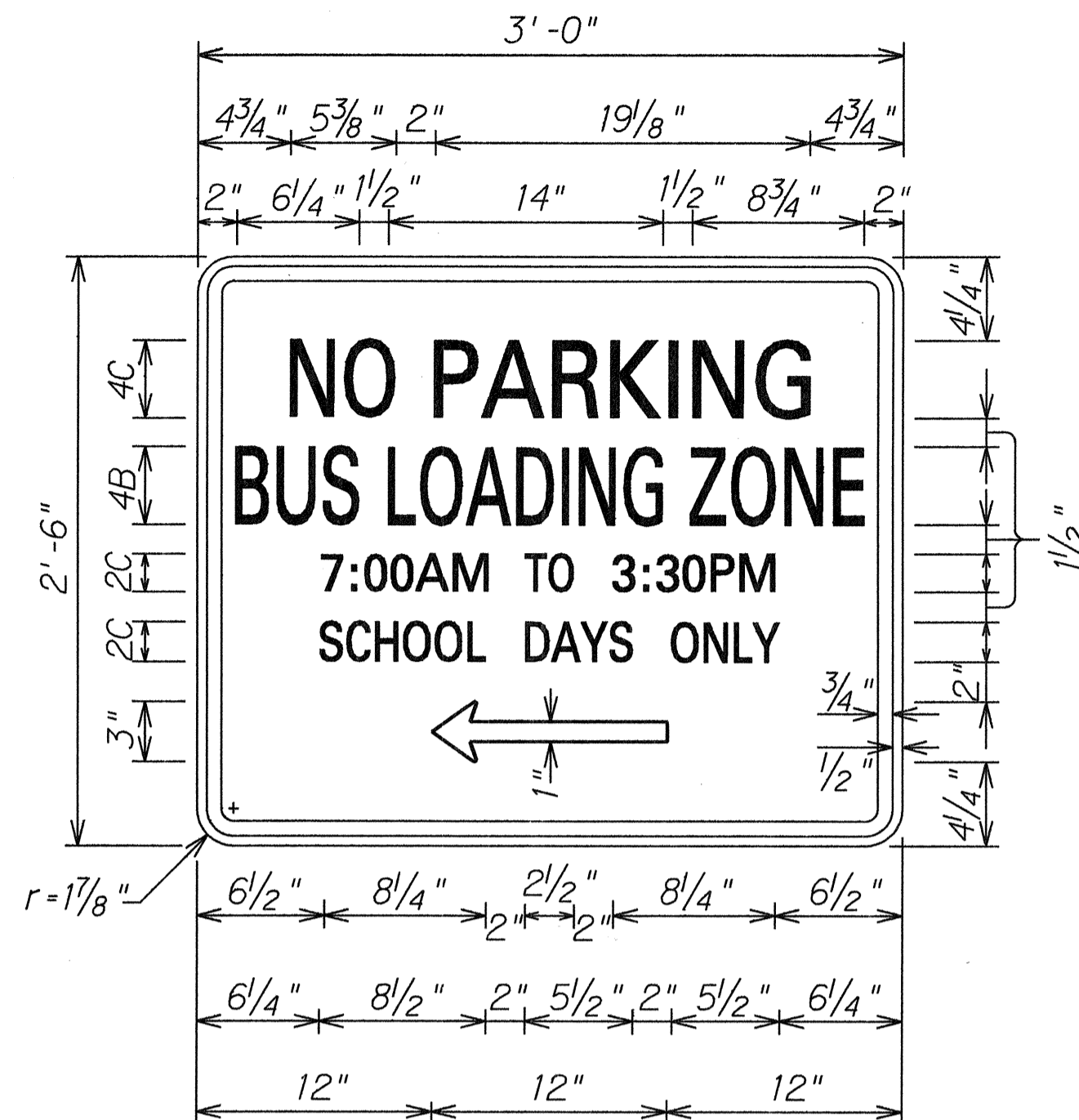
SHEET NO. 11 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-90M	1990	11S-6R	11



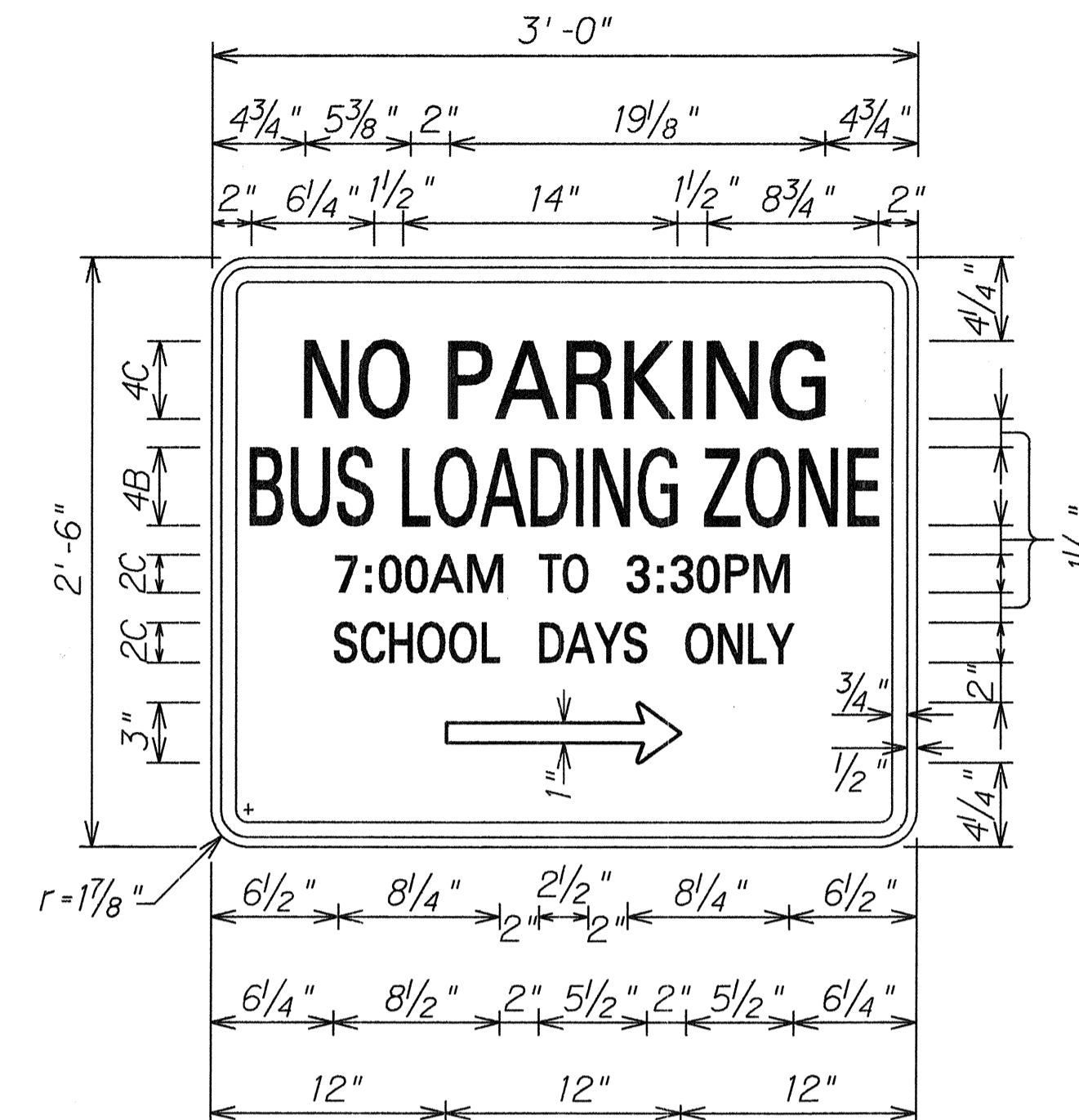
R7-10
36" x 30"

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



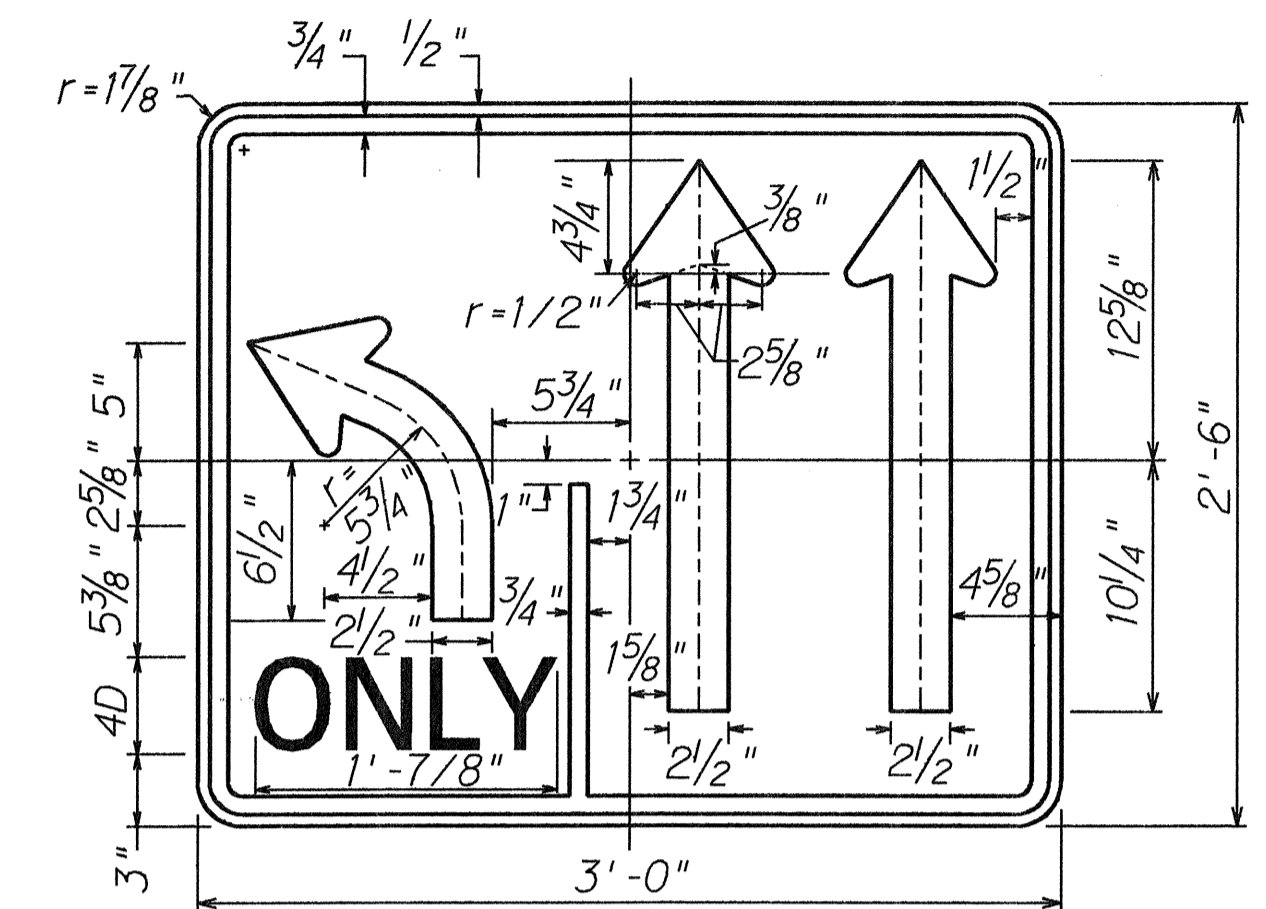
R7-10d(L)
36" x 30"

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



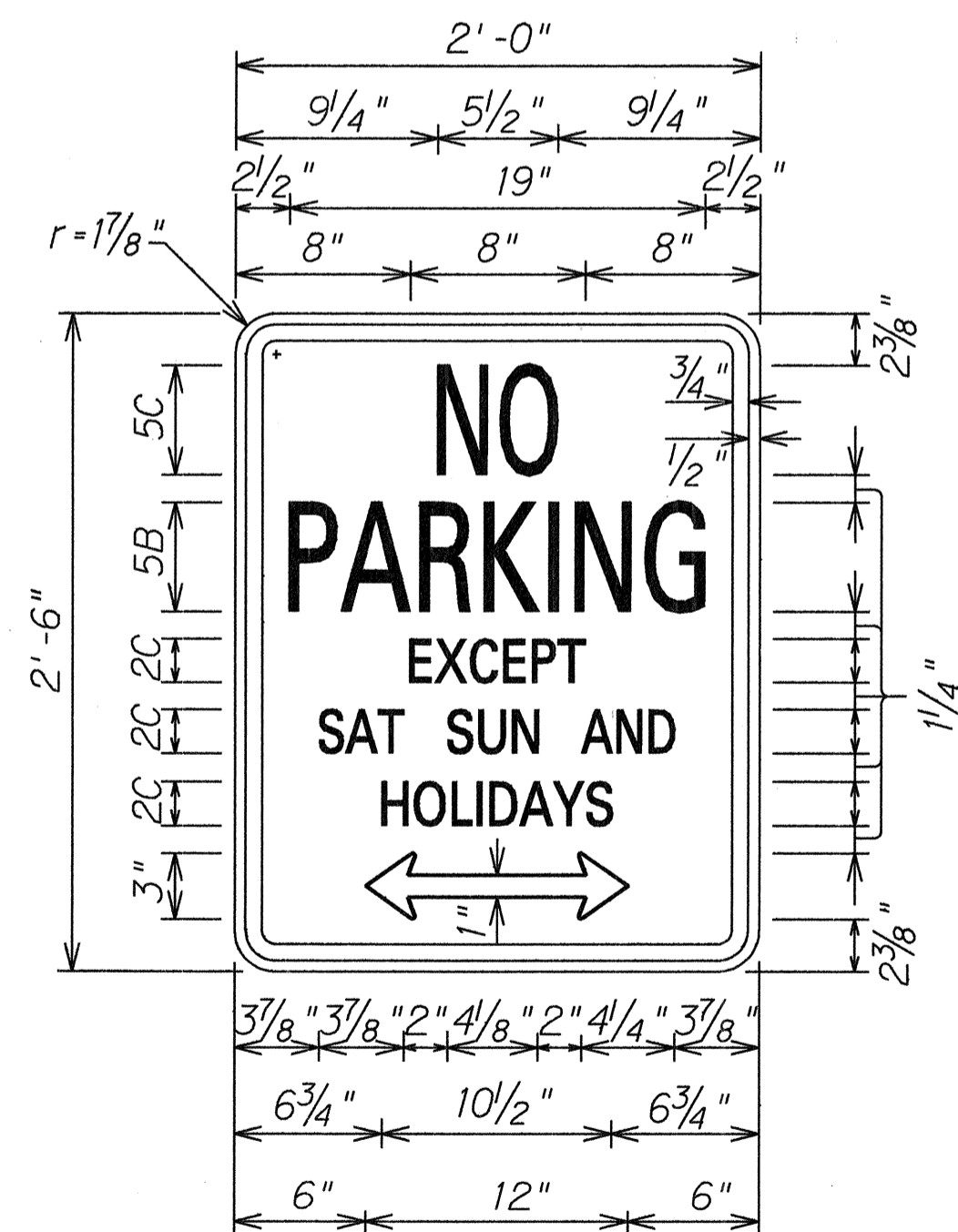
R7-10d(R)
36" x 30"

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



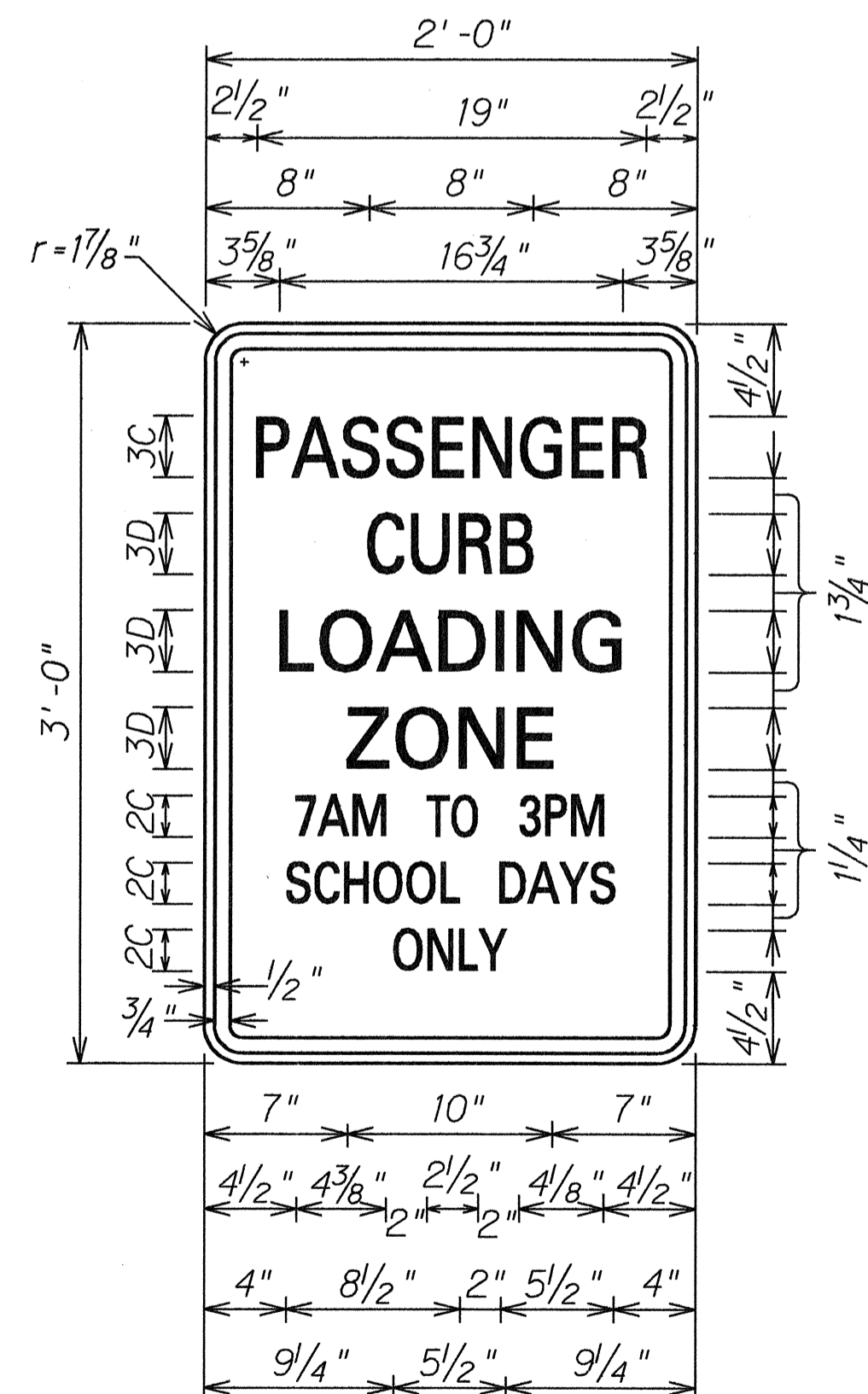
R3-8a(L)
36" x 30"

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



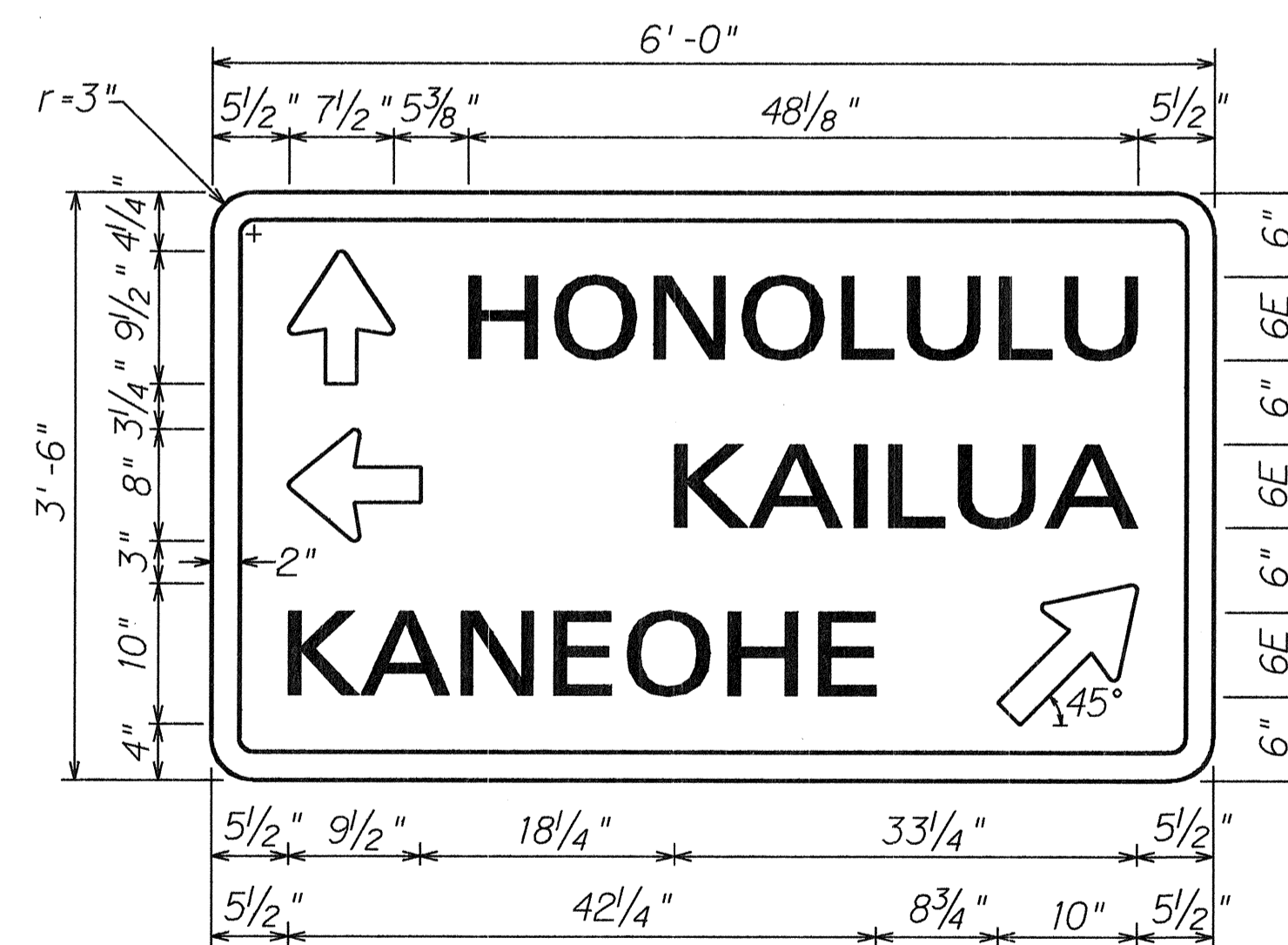
R7-3A
24" x 30"

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



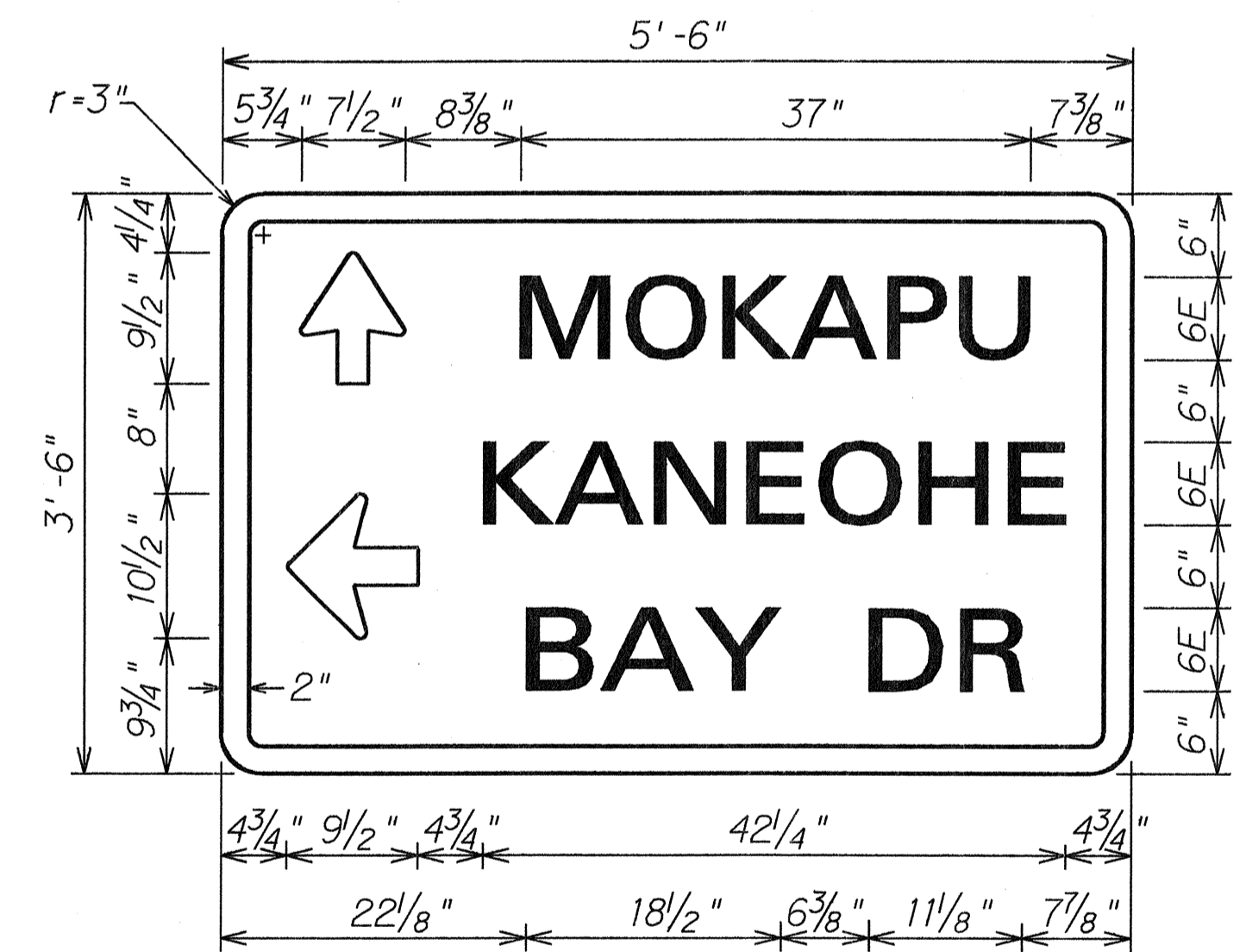
R7-11
24" x 36"

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



D-1
72" x 42"

Scale: 1" = 1'-0"



D-2
66" x 42"

Scale: 1" = 1'-0"

DATE	REVISION
7-5-90	Added Miscellaneous Sign Details

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SIGN DETAILS

KANEOHE BAY DRIVE AND
MOKAPU SADDLE ROAD RESURFACING
Kamehameha Hwy. To Kahinani Pl.
Project No. 65A-01-90M

Scale: As Shown Date: July 1990
SHEET No. T2f OF 2 SHEETS

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
CHECKED BY: _____
DESIGNED BY: _____
NOTED BY: _____
ORIGINAL PLAN: _____
NOTE BOOK: _____