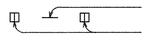
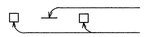
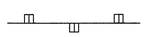
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-HI-1(216)	1994	9	32

LEGEND


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


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

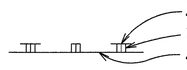

8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)

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

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

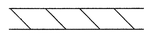
4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)

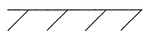
4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)

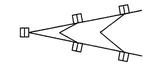

Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)

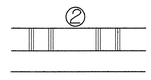
4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)

4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)


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


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

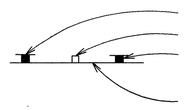

Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)

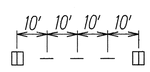

Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)

Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)

STOP

Pavement Word (Tape, Type III or Thermoplastic Extrusion)

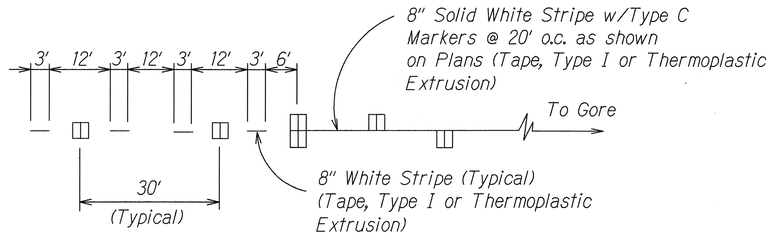

4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)



Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III 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. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. 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.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the Legend or plans.
8. 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.



LANE DROP MARKING
Not to Scale

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY R. Arlitz	May, 1994
NOTE BOOK	TRACED BY	
	DESIGNED BY K. Tanaka	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

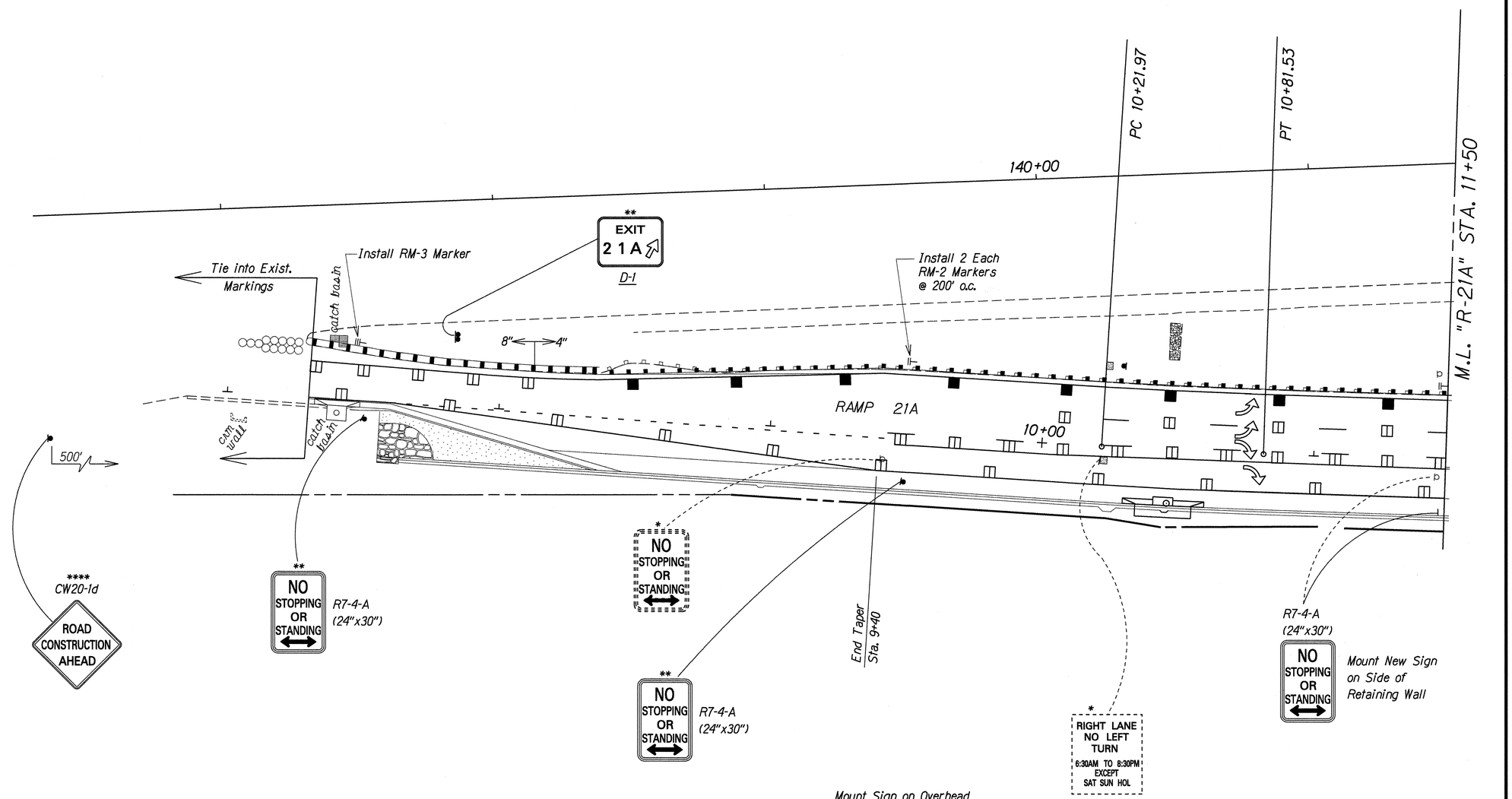
PAVEMENT MARKING LEGEND, DETAILS & NOTES
INTERSTATE ROUTE H-1
Eastbound Off Ramp Improvements at Pali Highway
Project No. IM-IR-HI-1(216)

Scale: As noted Date: May, 1994

SHEET No. T1 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-H1-1(216)	1994	10	32

TRUE NORTH
SCALE: 1" = 20'



KEY:

*	Remove Exist. Sign(s) & Post(s)
**	Remove Exist. & Install New Sign(s) and Post(s)
***	Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
****	Install New Sign(s) w/Post(s)
*****	Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
#	Exist. Sign(s) to Remain

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 5/92
	DRAWN BY E. Isobe	
NOTE BOOK	TRACED BY	
	DESIGNED BY George Tanaka	
	QUANTITIES BY	
	CHECKED BY	

DATE	REVISION
1/19/95	Revise Pavement Marking at taper of Right Turn Lane.
1/10/95	Revised Sign E-1.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-1

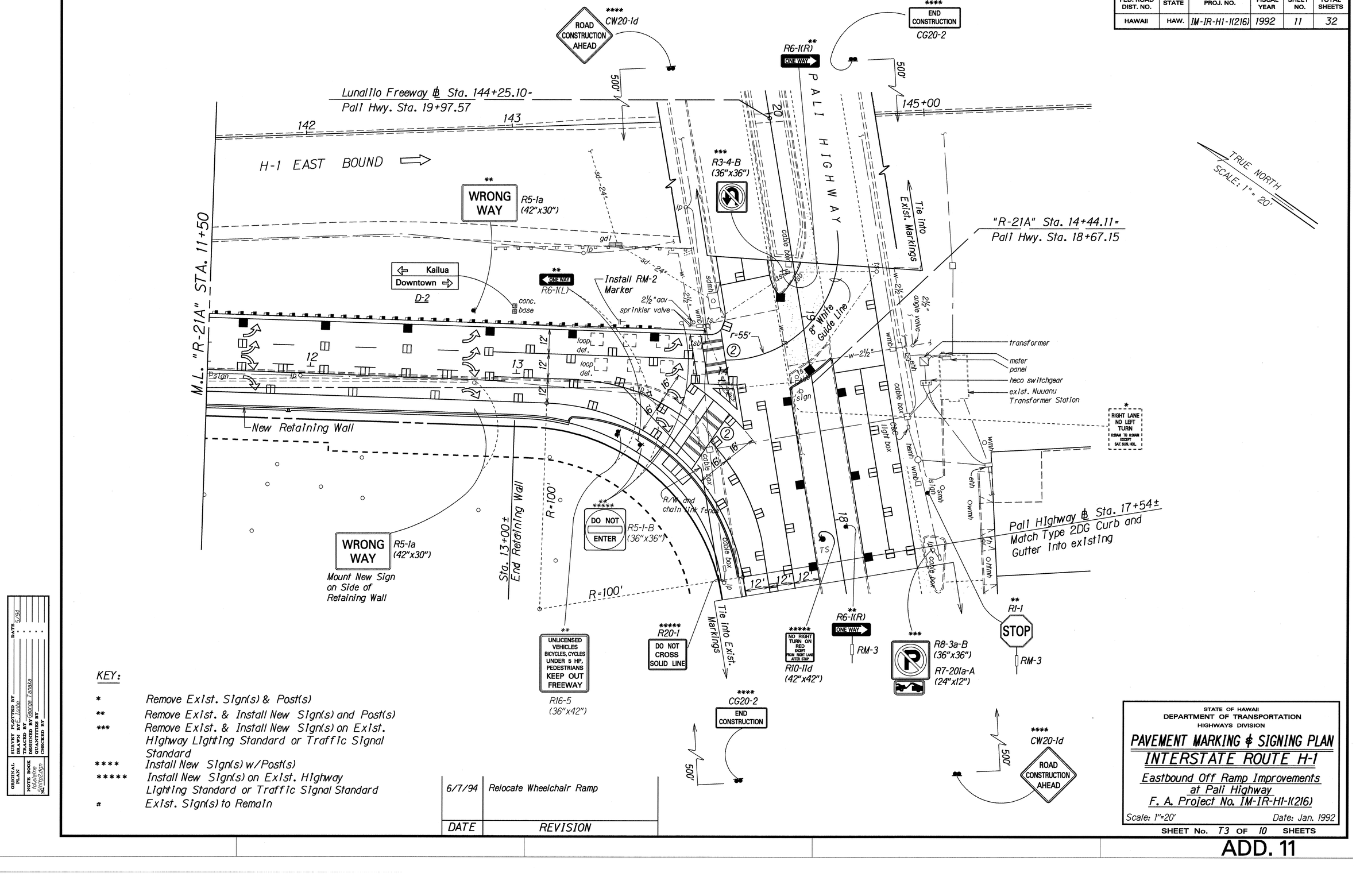
Eastbound Off Ramp Improvements at Pali Highway
F.A. Project No. IM-IR-H1-1(216)

Scale: 1"=20' Date: Jan. 1992

SHEET No. T2 OF 10 SHEETS

C.O. 10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-H1-1(216)	1992	11	32



KEY:

*	Remove Exist. Sign(s) & Post(s)
**	Remove Exist. & Install New Sign(s) and Post(s)
***	Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
****	Install New Sign(s) w/Post(s)
*****	Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
#	Exist. Sign(s) to Remain

DATE	REVISION
6/7/94	Relocate Wheelchair Ramp

ORIGINAL PLAN

SURVEY PLOTTED BY — DATE 5/94
DRAWN BY C. Isobe
TRACED BY
DESIGNED BY George Tanaka
QUANTITIES BY
CHECKED BY
NOTE BOOK Idaho/me Chino/Design

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

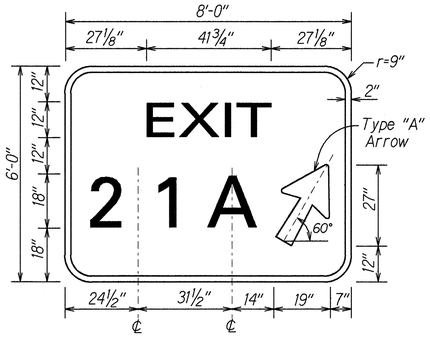
PAVEMENT MARKING & SIGNING PLAN
INTERSTATE ROUTE H-1
Eastbound Off Ramp Improvements at Pali Highway
F. A. Project No. IM-IR-H1-1(216)

Scale: 1"=20' Date: Jan. 1992

SHEET No. T3 OF 10 SHEETS

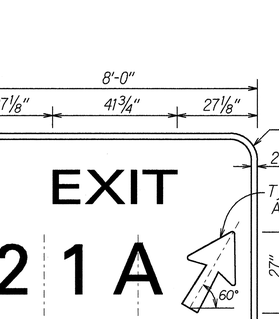
ADD. 11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-HI-1(216)	1994	12	32



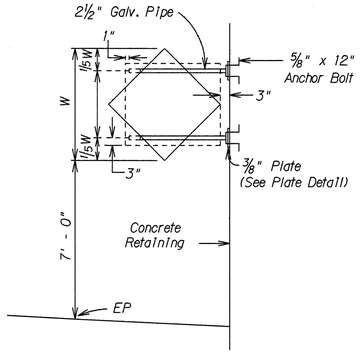
D-1

1. Design of Exit Number Panels shall conform to plans and specifications for either the Expressway or Destination Sign to which the Exit Number Panel will be attached.
2. Sign message shall be lettered in uppercase according to Standard Alphabets for Highway Signs, FHWA, 1966. Use Series "E" letters unless otherwise noted.
3. Arrows, Borders, and Route Markers shall conform with details as shown on standard plans and/or as specified in the MUTCD.
4. Contractor shall submit for approval, shop drawings for the attachment of Exit Number Panels to Sign Panels.



TYPE "A" DIAGONAL ARROW DETAIL

Not to Scale



Sign Mounted on Wall

Not to Scale

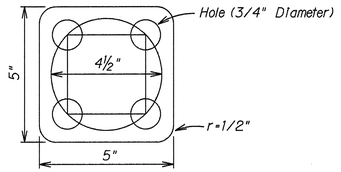
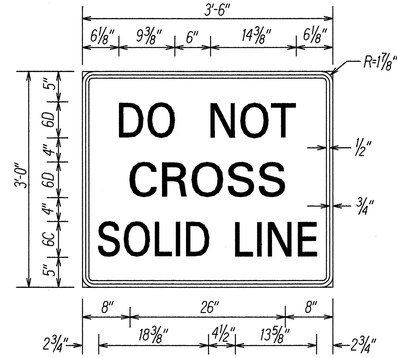


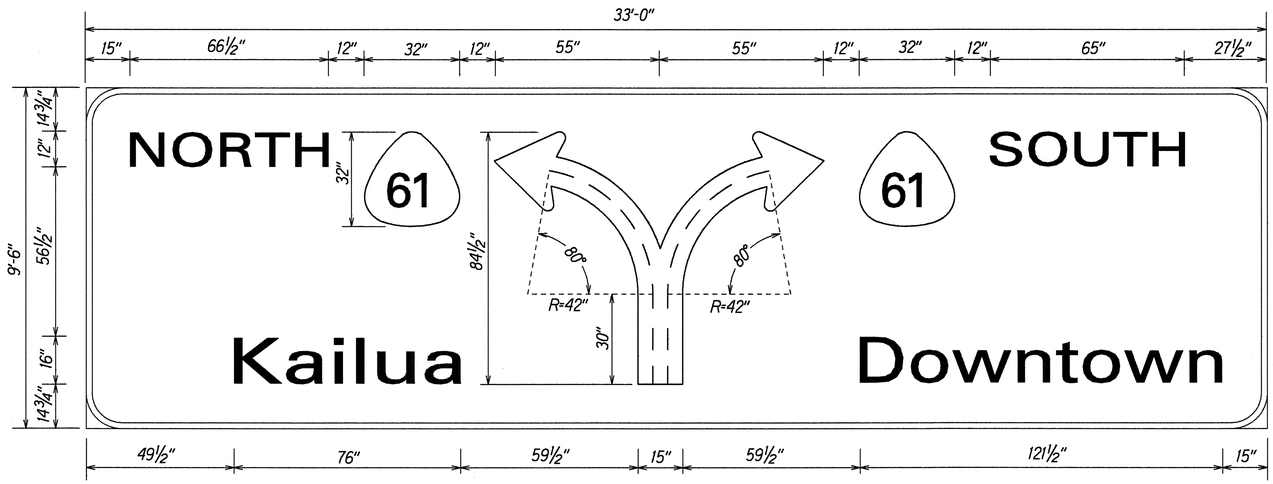
Plate Detail

Not to Scale



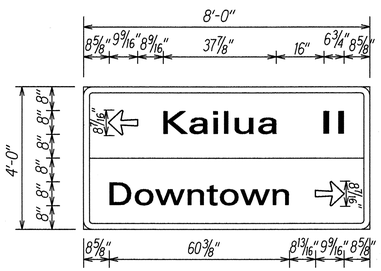
R20-1

Not to Scale



E-1

Not to Scale



D-2

Not to Scale

ORIGINAL PLAN

SURVEY PLOTTED BY
DRAWN BY Elaine Isobe
TRACED BY
DESIGNED BY George Tanaka
QUANTITIES BY
CHECKED BY
DATE 4/94

NOTE BOOK
Hdelaire
N:\Hdelaire\Design

DATE	REVISION
1/10/95	Revise Sign E-1 Detail.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS INTERSTATE ROUTE H-1

Eastbound Off Ramp Improvements at Pali Highway

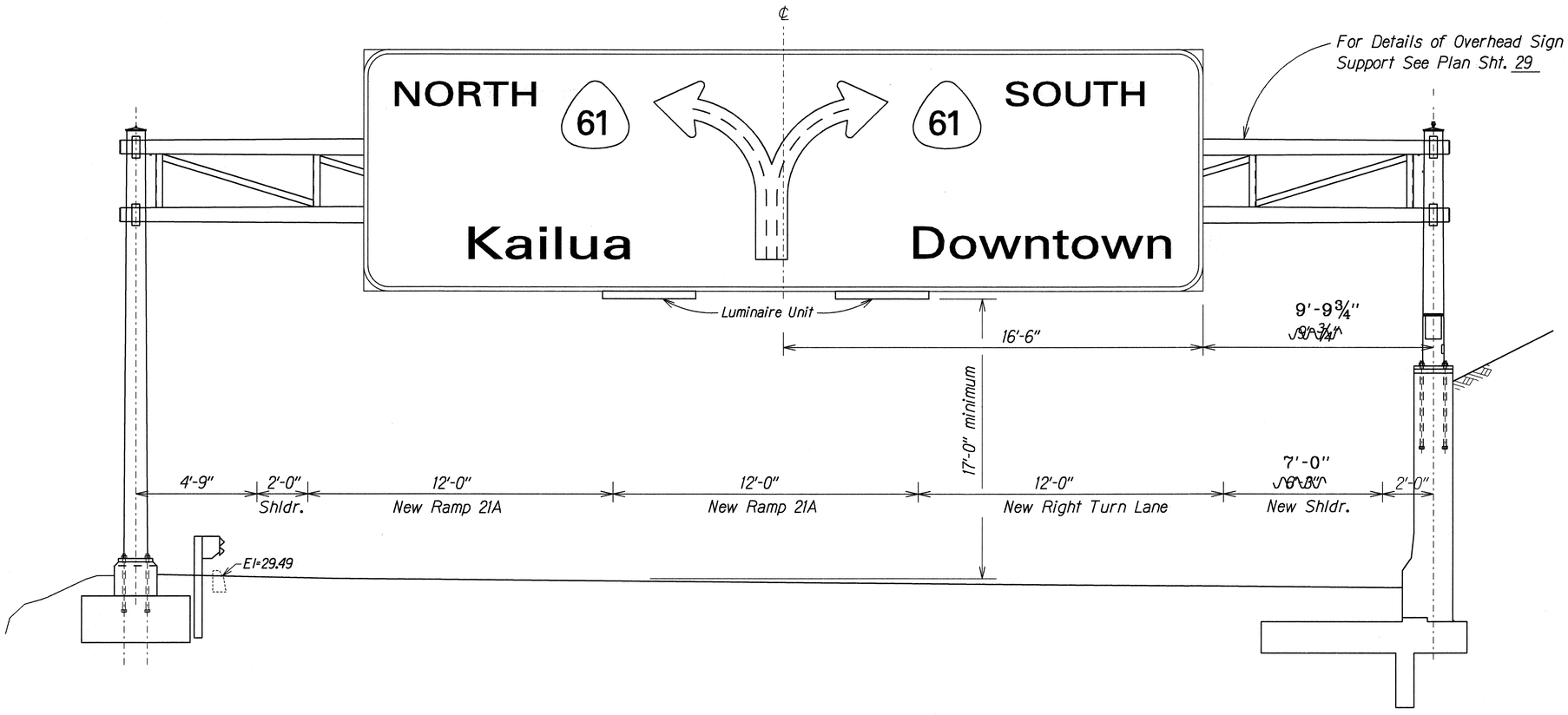
F. A. Project No. IM-IR-HI-1(216)

Scale: Not to Scale Date: Apr., 1994

SHEET No. T4 OF 10 SHEETS

C.O. 12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-HI-1(216)	1994	C.O. 12S1	32



FRAME LAYOUT - SIGN E-1

N.T.S.

LEGEND FOR AS-BUILT POSTINGS	
~~∧∧∧∧~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 12/16/94
	DRAWN BY G. Arii	
NOTE BOOK dates	TRACED BY K. Nishihira	
No. Sht/pl	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DATE	REVISION
1/10/95	New Sheet Added.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FRAME LAYOUT DETAIL

INTERSTATE ROUTE H-1
Eastbound Off Ramp Improvements at Pali Highway
F. A. Project No. IM-IR-HI-1(216)

Scale: As noted Date: Dec., 1994

SHEET No. T4S-10F 10 SHEETS

C.O. 12S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-HI-1(216)	1994	13	32

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A	30 EA.
TYPE C	90 EA.
TYPE H	30 EA.
TYPE J	30 EA.
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	290 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	490 L.F.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	890 L.F.
4-INCH PAVEMENT STRIPE (YELLOW)	850 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	80 L.F.
8-INCH PAVEMENT STRIPE (YELLOW)	90 L.F.
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	180 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	100 L.F.
12-INCH PAVEMENT STRIPE (WHITE)	110 L.F.
CROSSWALK MARKINGS	4 LANES
PAVEMENT ARROW	16 EA.

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY				
		10 SQ. FT. OR LESS			GREATER THAN 10 SQ. FT.	
		MOUNTED ON WALL	W/POST	W/O POST	W/POSTS	W/O POST
R1-1	STOP		1			
R3-4-B, 36"x36"				1		
R5-1-B, 36"x36"	DO NOT ENTER		1	1		
R5-9, 42"x30"	WRONG WAY	1	1			
R6-1(L)	ONE WAY ←			1		
R6-1(R)	ONE WAY →		1	1		
R7-4-A, 24"x30"	NO STOPPING OR STANDING ⟷	1	2			
R7-201a-A, 24"x12"				1		
R8-3a-B, 36"X36"				1		
R10-1d,42"x42"	NO RIGHT, TURN ON, RED, EXCEPT, FROM RIGHT LANE, AFTER STOP					1
R16-5, 36"x42"	UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 HP PEDESTRIANS KEEP OUT FREEWAY				1	
R20-1	DO NOT CROSS SOLID LINE			1		
	TOTAL	2	6	7	1	1

EXPRESSWAY SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)
E-1	Ramp D Sta. 10+25	NORTH 61 SOUTH, Kailua Downtown	10'-6"x24'-0"	252.00
		TOTAL		252.00

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	OVERLAY AREA (SQ. FT.)	NEW PANEL AREA (SQ. FT.)	
					W/O POST	W/POSTS
D-1	Ramp D Sta. 7+80± Lt	EXIT 21 A ↱	6'-0"x8'-0"			48.00
D-1	Ramp D Sta. 13+00± Lt	⇦ Kailua, Downtown ⇨	4'-0"x8'-0"	32.00		
		TOTAL		32.00		48.00

CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POSTS
CG20-2	Pali Hwy, Sta. 12+71± Lt.	END CONSTRUCTION	1
CW20-1d	Pali Hwy, Sta. 12+71± Rt.	ROAD CONSTRUCTION AHEAD	1
CW20-1d	Pali Hwy, Sta. 24+27± Lt.	ROAD CONSTRUCTION AHEAD	1
CG20-2	Pali Hwy, Sta. 24+27± Rt.	END CONSTRUCTION	1
CW20-1d	Ramp D Sta. 2+28± Rt.	ROAD CONSTRUCTION AHEAD	1
		TOTAL	5

REFLECTOR MARKER SUMMARY

TYPE	QUANTITY			
	W/O POST		W/STEEL POST	
	YELLOW	WHITE	YELLOW	WHITE
RM-3	2		A 1	
RM-2			3	

LEGEND FOR AS-BUILT POSTINGS

~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 5/94
	DRAWN BY E. Lau
NOT BOOK	TRACED BY
	DESIGNED BY George Tanaka
	QUANTITIES BY
	CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS TRAFFIC SUMMARIES

INTERSTATE ROUTE H-1

Eastbound Off Ramp Improvements at Pali Highway
F. A. Project No. IM-IR-HI-1(216)

Scale: Not to Scale Date: May, 1994

SHEET No. T5 OF 10 SHEETS