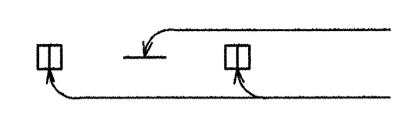
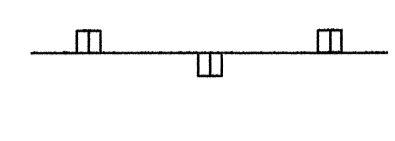
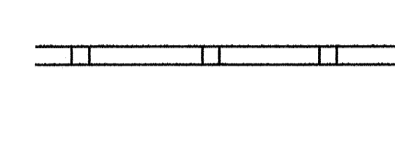


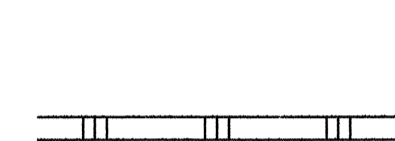
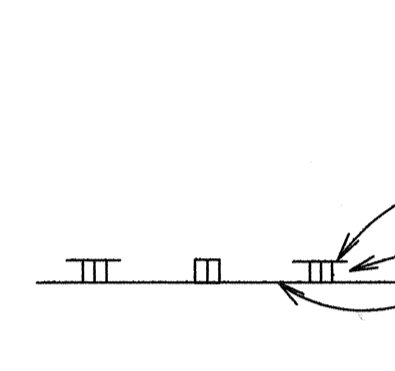

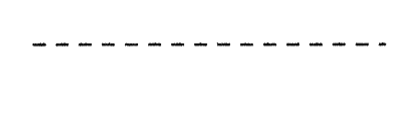
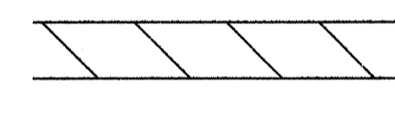


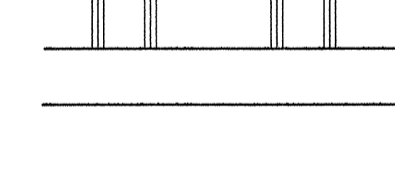

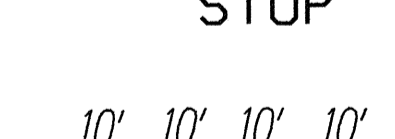


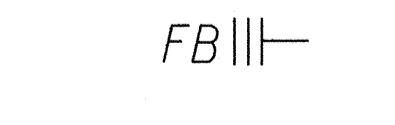



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD.14	35

LEGEND

-  4 each Type A Raised Pavement Markers Type C 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" or 8" 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)
-  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)
-  Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
-  STOP Pavement Word (Tape, Type III 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)
-  Reflector Marker (RM-2) with Post
-  Reflector Marker (RM-2) Mounted on Concrete Retaining Wall
-  Reflector Marker (RM-3) with Flexible Delineator Post (Type B)

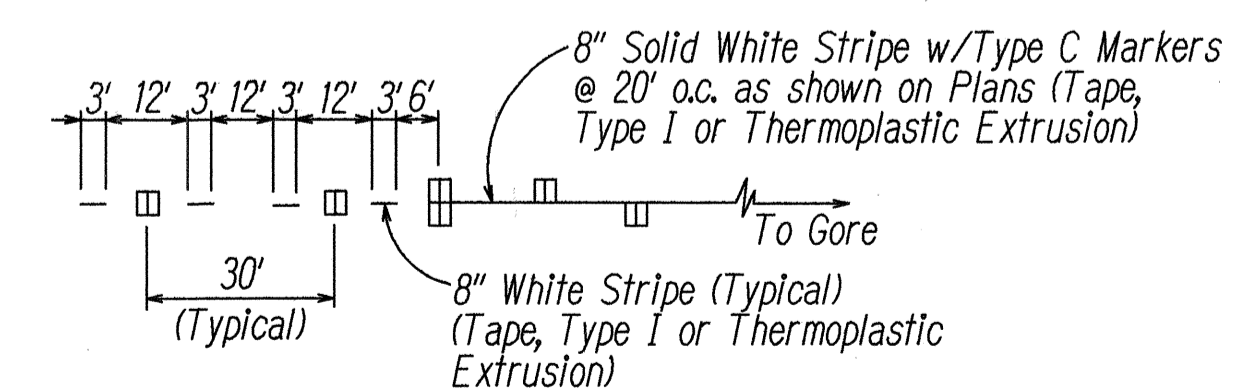
NOTES

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.
9. Removal of Existing Delineators and Posts as directed by the Engineer shall be considered incidental to the various signing items.
10. Removing and reinstalling existing Street Name Signs on the New Regulatory and Warning Sign Post shall not be paid for separately but shall be considered incidental to the various signing items.
11. 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.
12. Backing for all new regulatory and warning signs shall not be spliced.
13. All sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - b. "Standard Highway Signs"
 - c. "Standard Alphabets for Highway Signs"
14. All new and relocated signs and markers installed on pipe post or light standard are to be mounted with band brackets and steel braces.
15. The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs placed as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove clean, and deliver the signs and posts to the Oahu District Baseyard upon the completion of the project.
16. Borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
17. Sign messages shall be as indicated on the plan.
18. 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.

19. The Contractor shall notify the Traffic Signal Branch, Dept. of Transportation Services, City & County of Honolulu, 2 weeks prior to commencing any loop detector work.
20. Dept. of Transportation Services, City & County of Honolulu, will assist the Engineer in construction inspection for the loop detector work.
21. The exact locations of the new loop detectors shall be determined in the field by the Engineer.
22. Loop detectors damaged during the Contractor's reconstruction of pavement areas or cold planing operation, shall be replaced within 48 hours. Replacement and location of the new loop detectors shall be as directed by the Engineer.
23. The first letter of the Cardinal Directional words (NORTH, SOUTH, EAST, WEST) shall be 10 percent larger, rounded up to the nearest whole number size.
24. The Contractor shall install an additional Swing Sign Bracket on all existing street name signs mounted on existing traffic signal mast arm. For Details, See Sht. No. T9B.
25. The demolishing of the existing wheelchair ramps and installing new sidewalk to match existing sidewalk, shall not be paid for separately but considered incidental to the new wheelchair ramps.

DESTINATION (D) SIGN NOTES

1. The Contractor shall verify the locations and dimensions of existing Sign Panels and supports.
2. New sign panels shall be laminated aluminum or extruded aluminum.
3. 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.
4. Destination Sign Posts and Foundation shall be as noted on the plans. See Sheet No. T8, Frame Layout, for details.
5. Incidental parts and services, not shown on the plans or specified but deemed necessary for the sign installation, shall be furnished and installed by the Contractor as part of the work contracted.
6. Removal and disposal of existing sign panels, posts with foundation, luminaires and supports will not be paid for separately, but shall be considered incidental to the various signing items.



LANE DROP MARKING
Not to Scale

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
IN.	

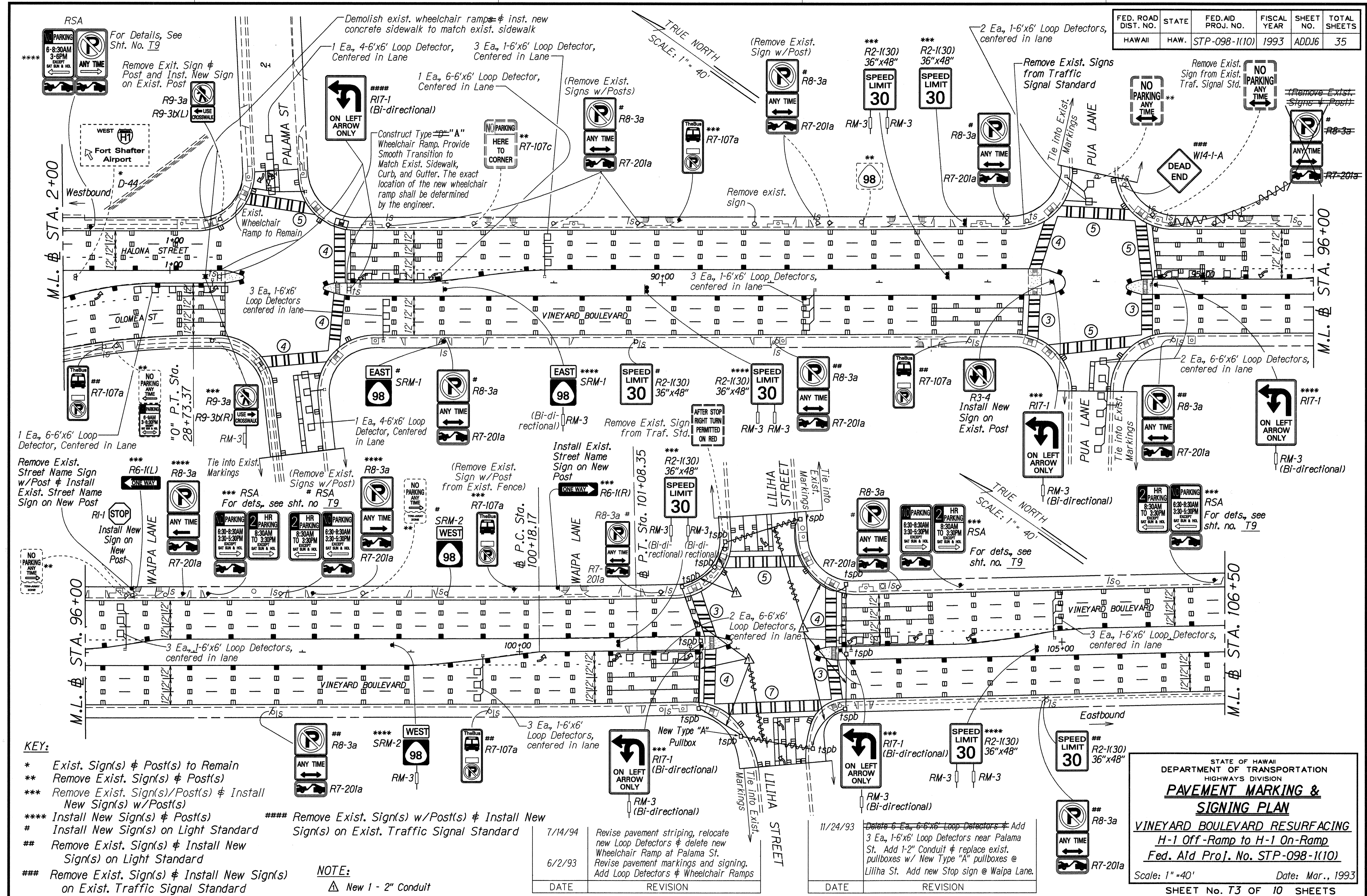
6/2/93	Add Destination Sign Notes, Notes 16-25, and Revise Legend.
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DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PAVEMENT MARKING LEGEND & NOTES VINEYARD BOULEVARD RESURFACING H-1 Off-Ramp to H-1 On-Ramp Fed. Aid Proj. No. STP-098-1(10)	
Date: Mar., 1993	

SHEET No. T1 OF 10 SHEETS

ADD.14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD.16	35



KEY:

- * Exist. Sign(s) & Post(s) to Remain
- ** Remove Exist. Sign(s) & Post(s)
- *** Remove Exist. Sign(s)/Post(s) & Install New Sign(s) w/Post(s)
- **** Install New Sign(s) & Post(s)
- # Install New Sign(s) on Light Standard
- ** Remove Exist. Sign(s) & Install New Sign(s) on Light Standard
- **** Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) on Exist. Traffic Signal Standard

NOTE:
 ▲ New 1 - 2" Conduit

DATE	REVISION
7/14/94	Revise pavement striping, relocate new Loop Detectors & delete new Wheelchair Ramp at Palama St.
6/2/93	Revise pavement markings and signing. Add Loop Detectors & Wheelchair Ramps

DATE	REVISION
11/24/93	Delete 6 Ea., 6-6'x6' Loop Detectors & Add 3 Ea., 1-6'x6' Loop Detectors near Palama St. Add 1-2" Conduit & replace exist. pullboxes w/ New Type "A" pullboxes @ Liliha St. Add new Stop sign @ Waipa Lane.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

**VINEYARD BOULEVARD RESURFACING
 H-1 Off-Ramp to H-1 On-Ramp**

Fed. Aid Proj. No. STP-098-1(10)

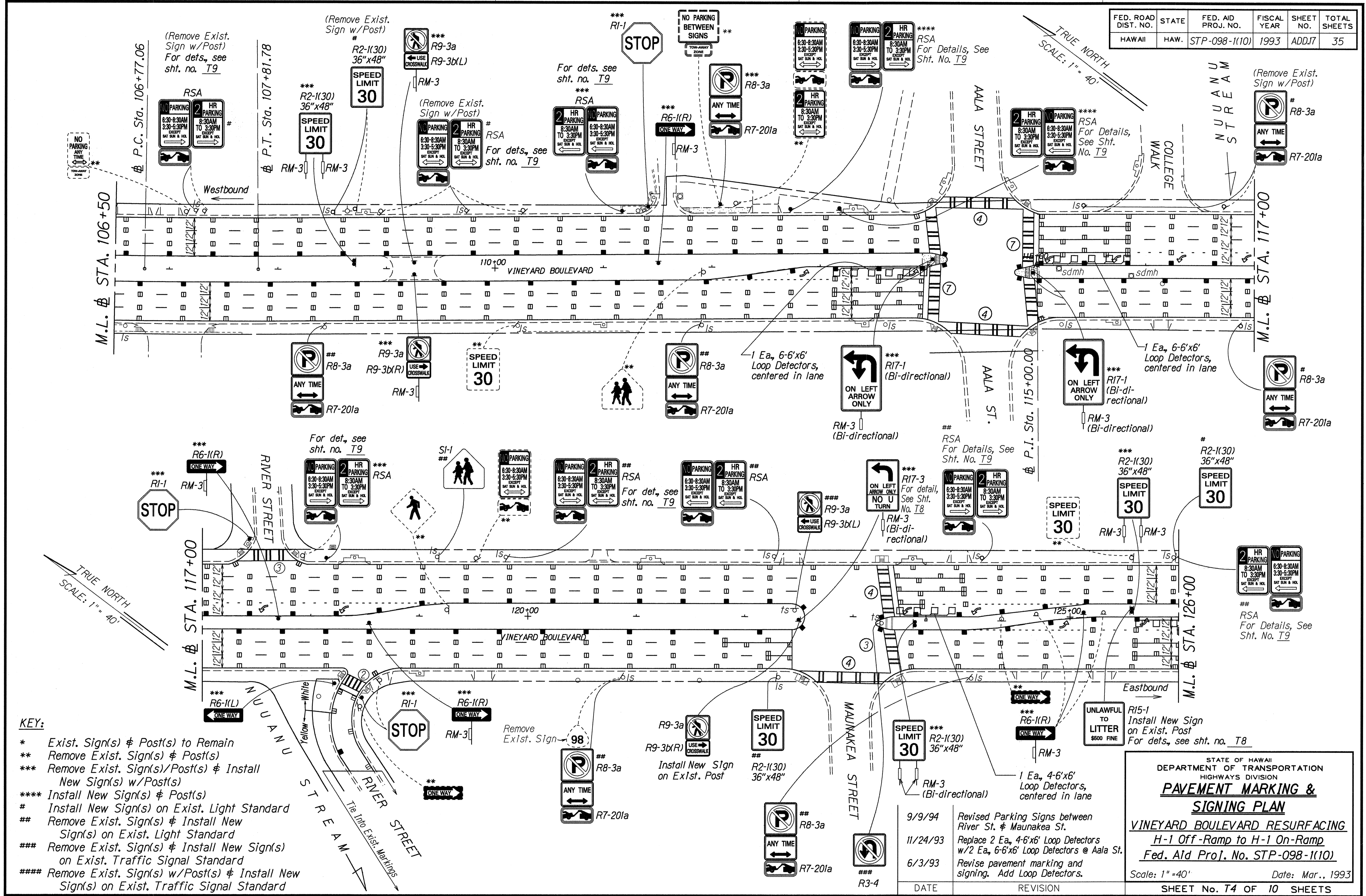
Scale: 1" = 40' Date: Mar., 1993

SHEET No. T3 OF 10 SHEETS

AS-BUILT C.O. ADD.16

SURVEY PLOTTED BY: DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN NO. _____
 NOTE BOOK NO. _____
 QUANTITIES BY: _____
 CHECKED BY: _____
 ruby lvbfp2dgn
 4/7/93

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD.17	35

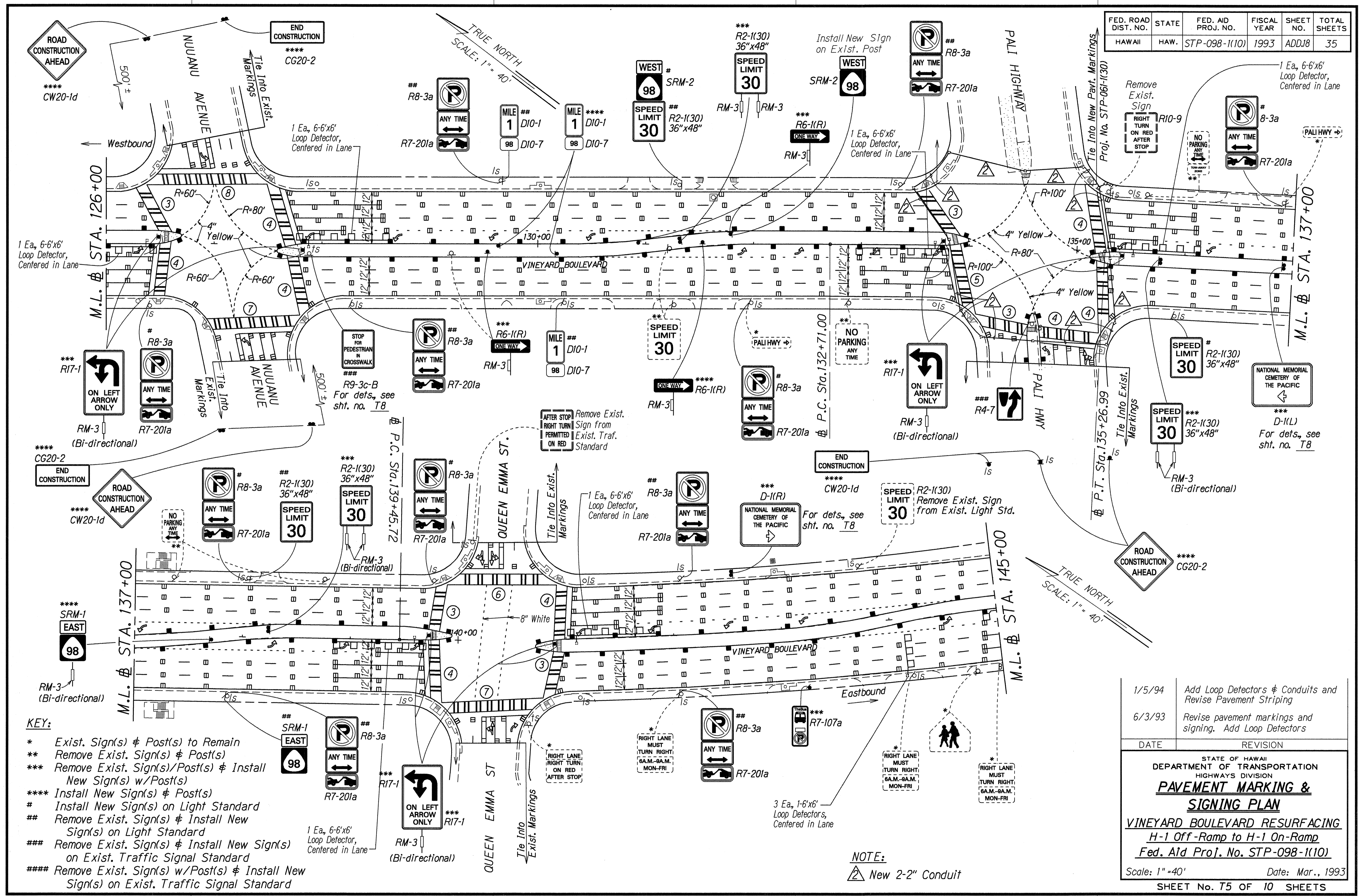


- KEY:**
- * Exist. Sign(s) & Post(s) to Remain
 - ** Remove Exist. Sign(s) & Post(s)
 - *** Remove Exist. Sign(s)/Post(s) & Install New Sign(s) w/Post(s)
 - **** Install New Sign(s) & Post(s)
 - # Install New Sign(s) on Exist. Light Standard
 - ** Remove Exist. Sign(s) & Install New Sign(s) on Exist. Light Standard
 - *** Remove Exist. Sign(s) & Install New Sign(s) on Exist. Traffic Signal Standard
 - **** Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) on Exist. Traffic Signal Standard

SURVEY PLOTTED BY: _____ DATE: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 INVENTOR: _____
 4/10/93

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING & SIGNING PLAN
VINEYARD BOULEVARD RESURFACING
 H-1 Off-Ramp to H-1 On-Ramp
 Fed. Aid Proj. No. STP-098-1(10)
 Scale: 1"=40' Date: Mar., 1993
 SHEET No. T4 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD18	35



- KEY:**
- * Exist. Sign(s) & Post(s) to Remain
 - ** Remove Exist. Sign(s) & Post(s)
 - *** Remove Exist. Sign(s)/Post(s) & Install New Sign(s) w/Post(s)
 - **** Install New Sign(s) & Post(s)
 - # Install New Sign(s) on Light Standard
 - ## Remove Exist. Sign(s) & Install New Sign(s) on Light Standard
 - ### Remove Exist. Sign(s) & Install New Sign(s) on Exist. Traffic Signal Standard
 - #### Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) on Exist. Traffic Signal Standard

DATE	4/93
SURVEY PLOTTED BY	
DRAWN BY	J.L. Hill
NOTE BOOK DESIGNED BY	C. A. A. B.
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	

DATE	REVISION
1/5/94	Add Loop Detectors & Conduits and Revise Pavement Striping
6/3/93	Revise pavement markings and signing. Add Loop Detectors

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

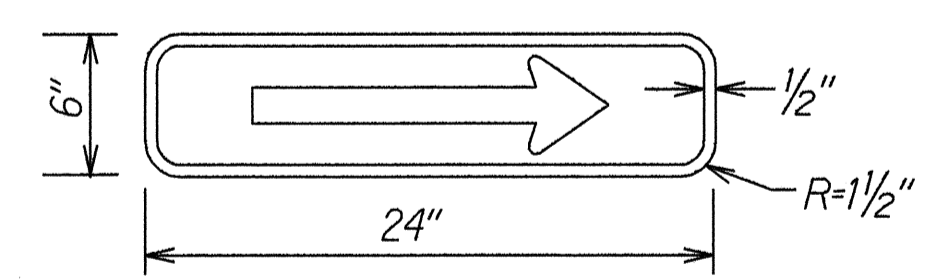
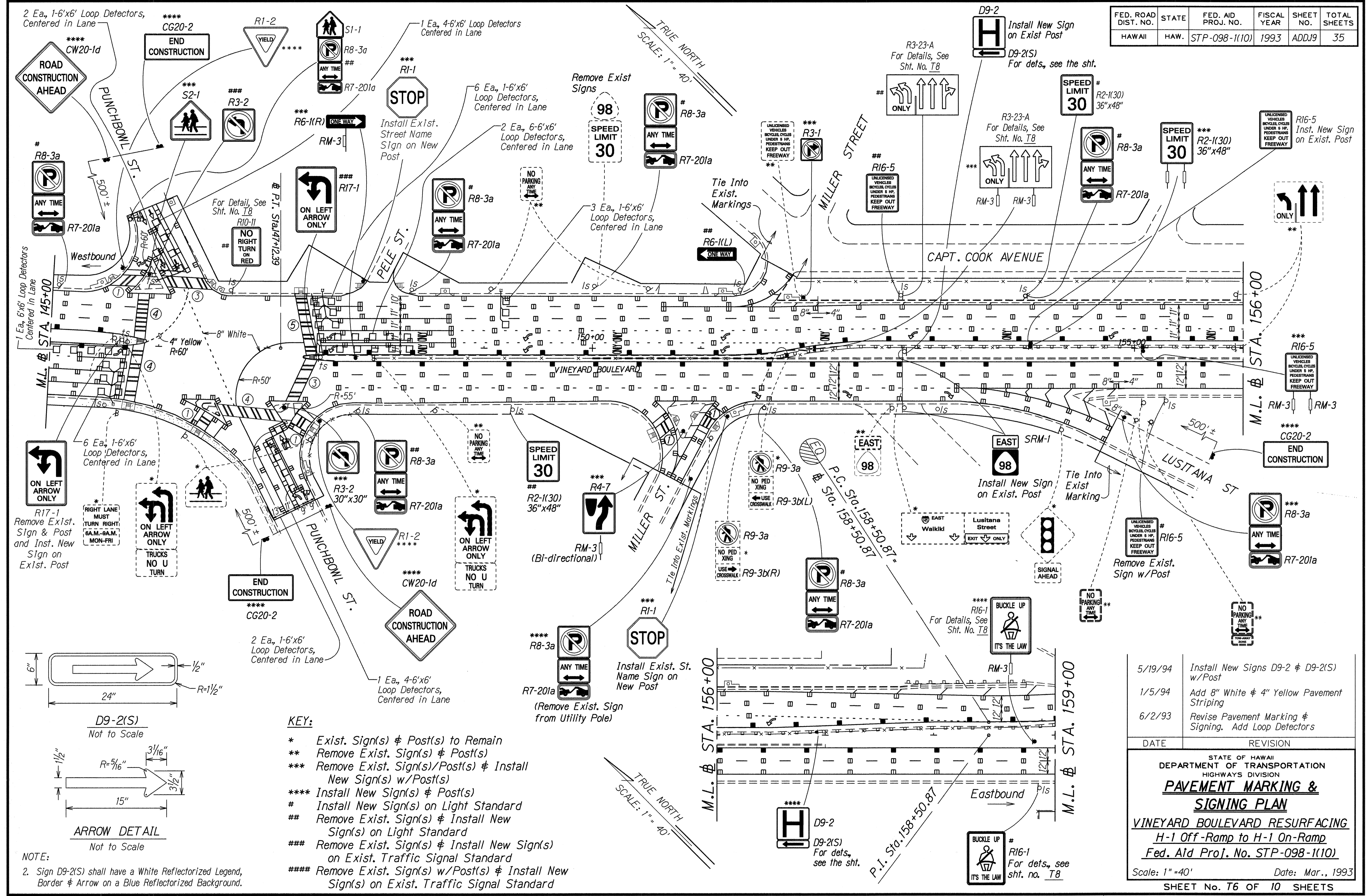
PAVEMENT MARKING & SIGNING PLAN

VINEYARD BOULEVARD RESURFACING
H-1 Off-Ramp to H-1 On-Ramp
Fed. Aid Proj. No. STP-098-1(10)

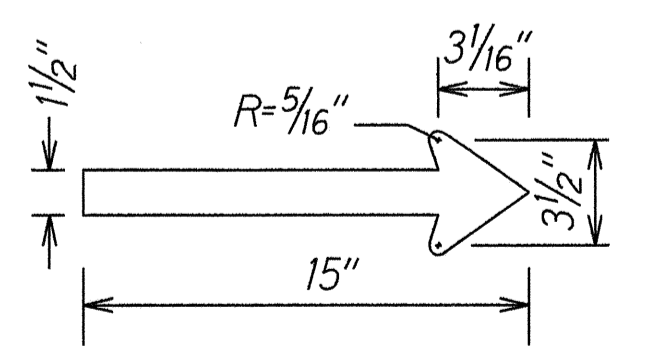
Scale: 1" = 40' Date: Mar., 1993
SHEET NO. T5 OF 10 SHEETS

NOTE:
△ New 2-2" Conduit

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD.19	35



D9-2(S)
Not to Scale



ARROW DETAIL
Not to Scale

NOTE:
2. Sign D9-2(S) shall have a White Reflectorized Legend, Border & Arrow on a Blue Reflectorized Background.

- KEY:**
- * Exist. Sign(s) & Post(s) to Remain
 - ** Remove Exist. Sign(s) & Post(s)
 - *** Remove Exist. Sign(s)/Post(s) & Install New Sign(s) w/Post(s)
 - **** Install New Sign(s) & Post(s)
 - # Install New Sign(s) on Light Standard
 - ## Remove Exist. Sign(s) & Install New Sign(s) on Light Standard
 - ### Remove Exist. Sign(s) & Install New Sign(s) on Exist. Traffic Signal Standard
 - #### Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) on Exist. Traffic Signal Standard

DATE	3/93
SURVEY PLOTTED BY	
DRAWN BY	J. Adell
DESIGNED BY	C. Also
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO. 101010101	

DATE	REVISION
5/19/94	Install New Signs D9-2 & D9-2(S) w/Post
1/5/94	Add 8" White & 4" Yellow Pavement Striping
6/2/93	Revise Pavement Marking & Signing. Add Loop Detectors

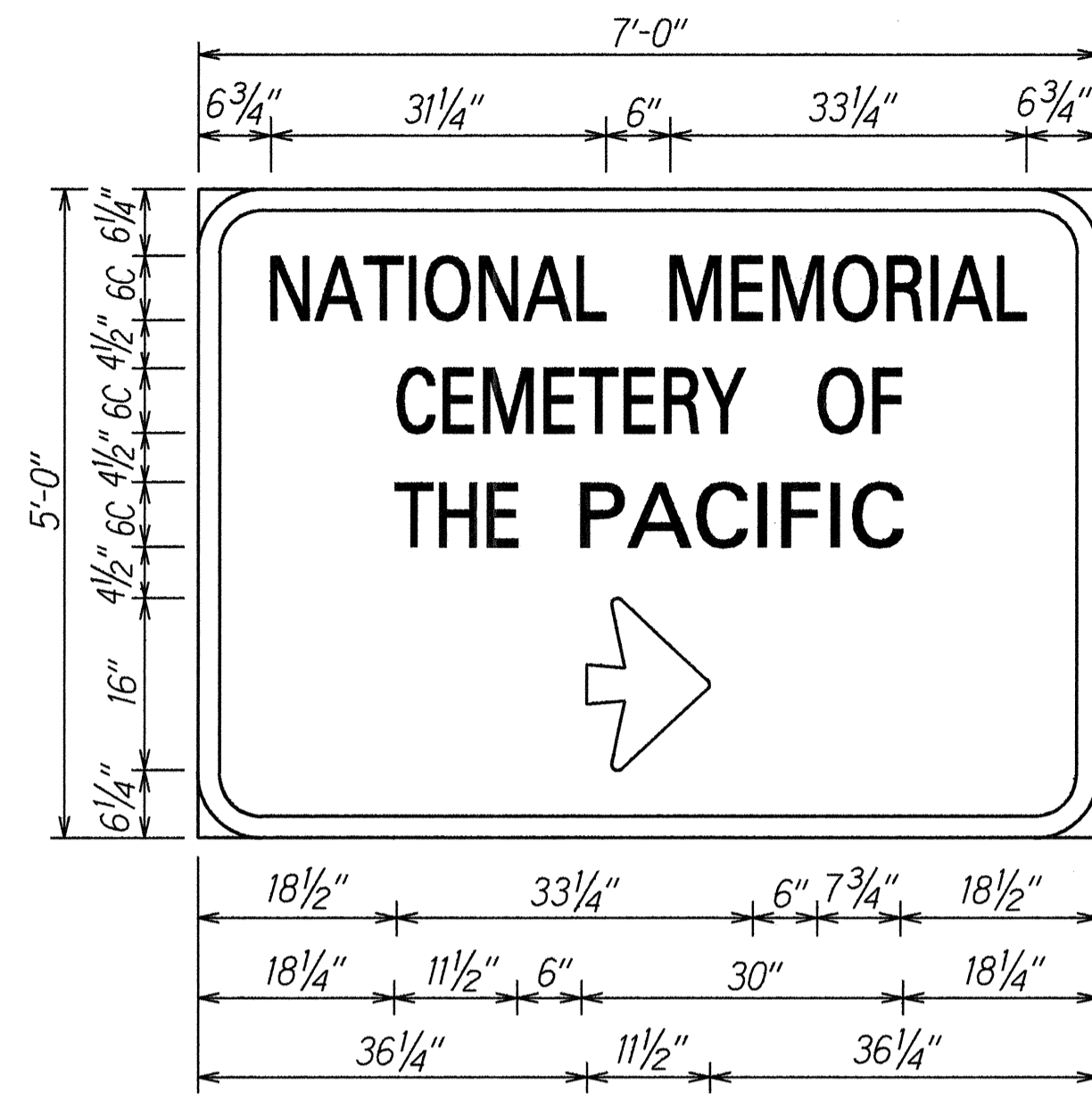
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

VINEYARD BOULEVARD RESURFACING
H-1 Off-Ramp to H-1 On-Ramp
Fed. Aid Proj. No. STP-098-1(10)

Scale: 1" = 40' Date: Mar., 1993
SHEET No. T6 OF 10 SHEETS

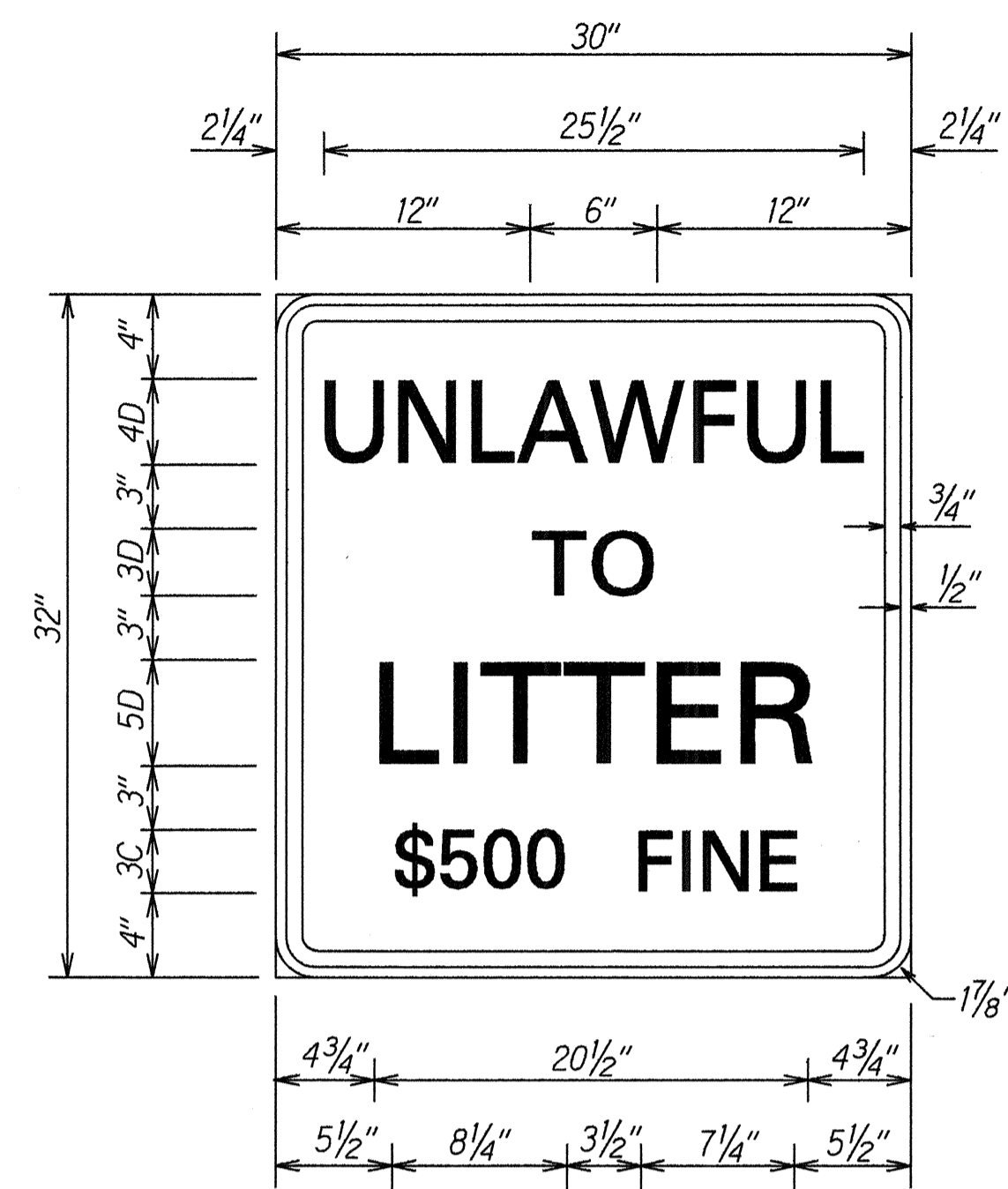
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD.21	35



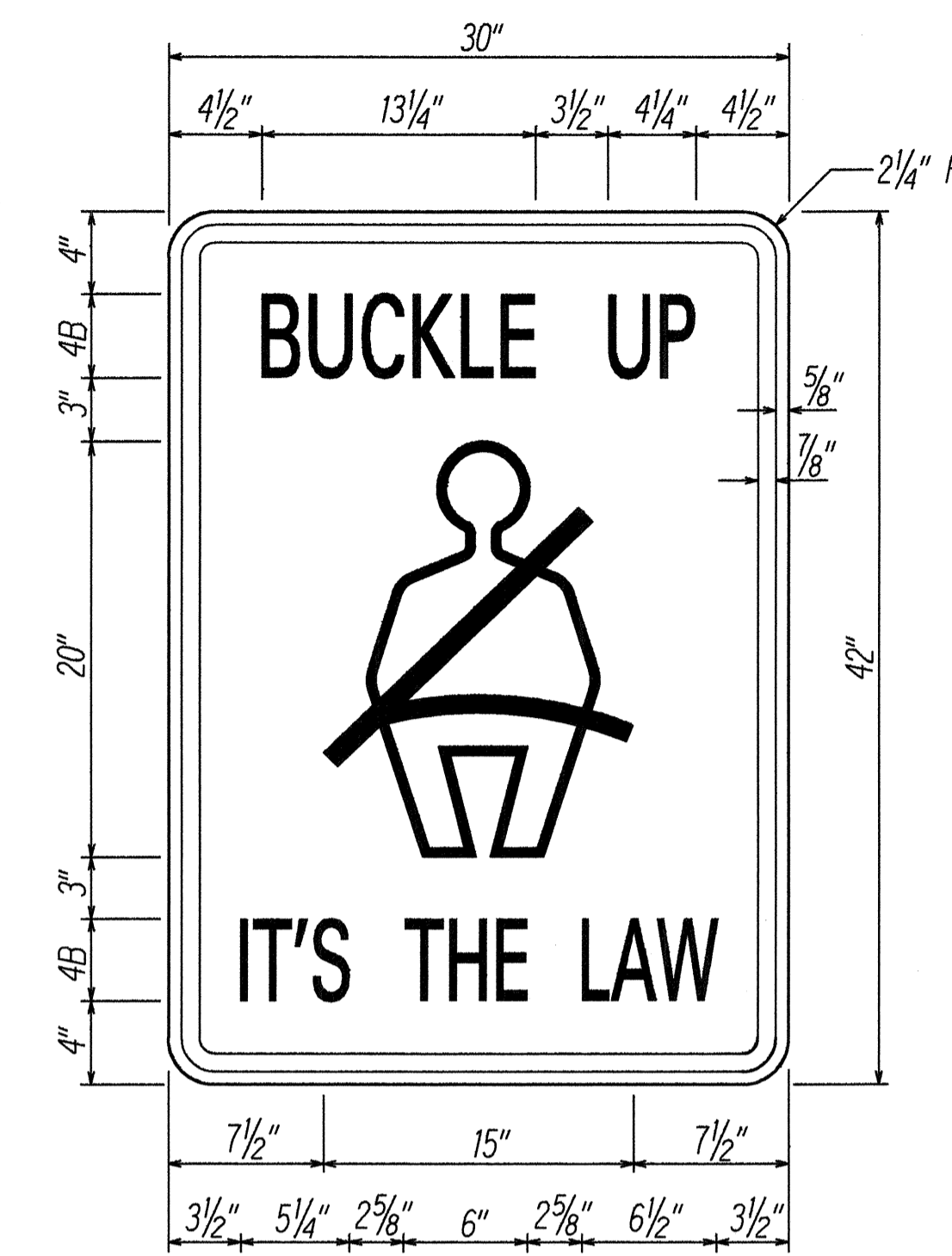
D-1(R) & D-1(L)
 Scale: 3/4"=1'-0"



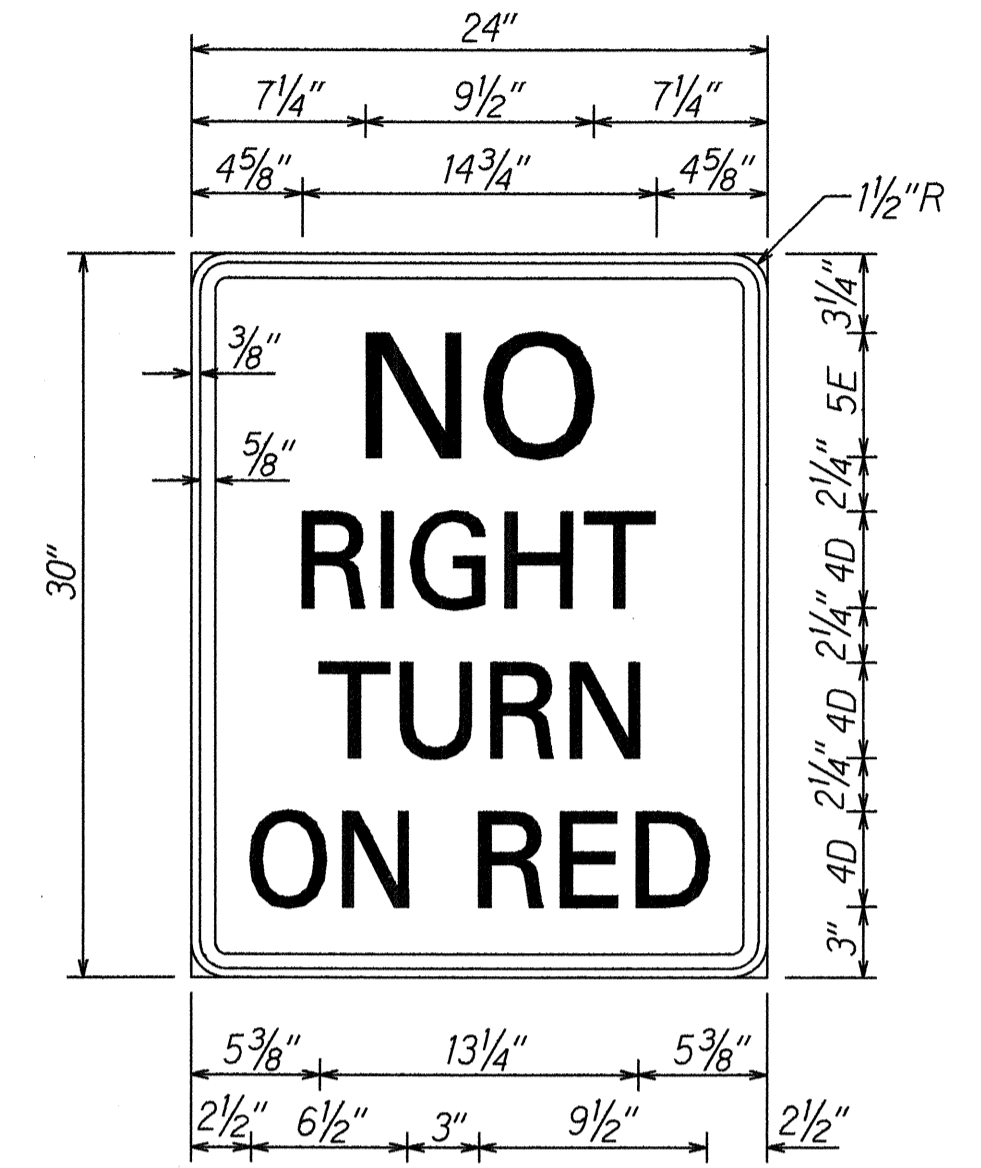
R9-3c-B
 Scale: 1/2"=1'-0"



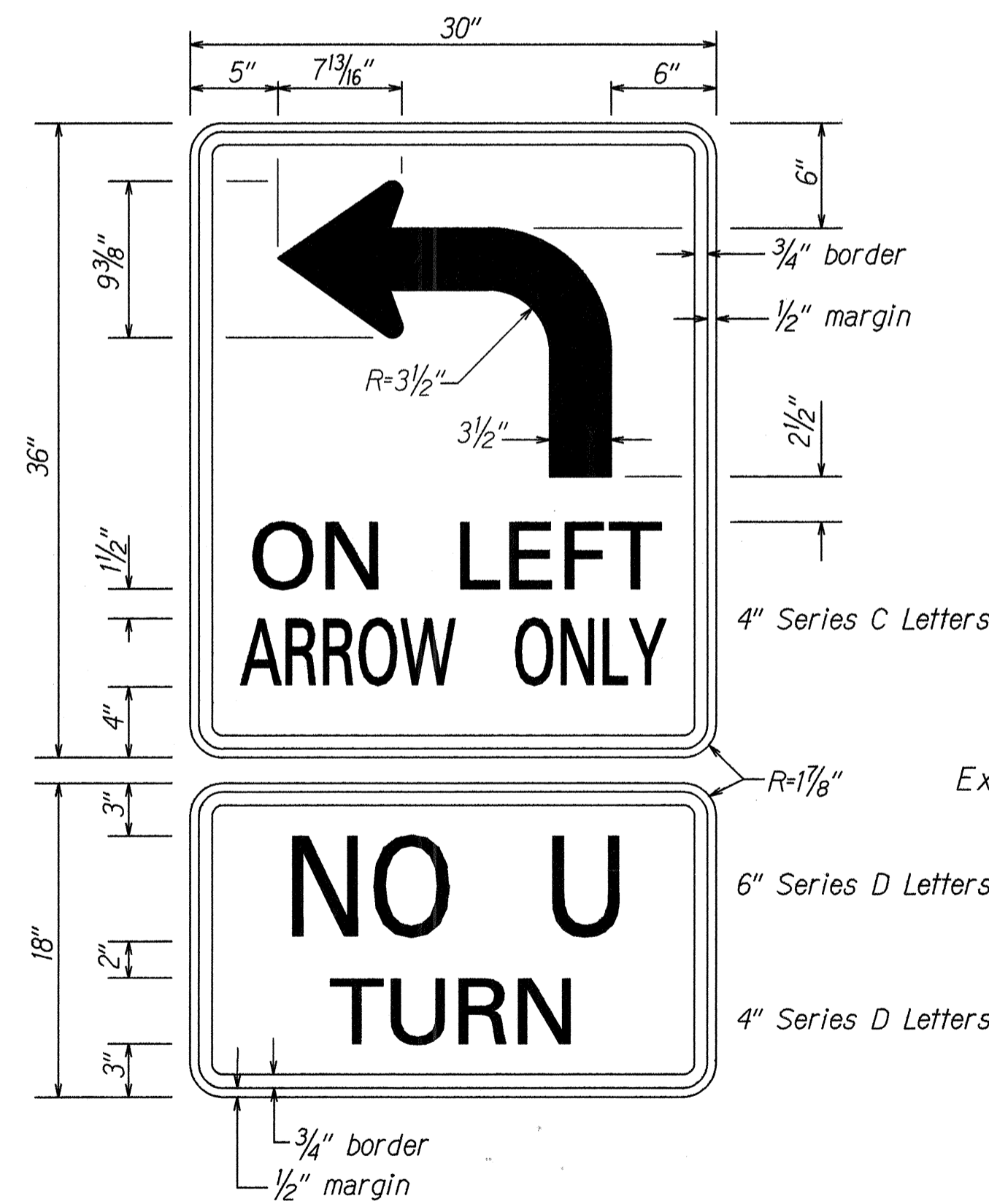
R15-1
 Scale: 1/2"=1'-0"



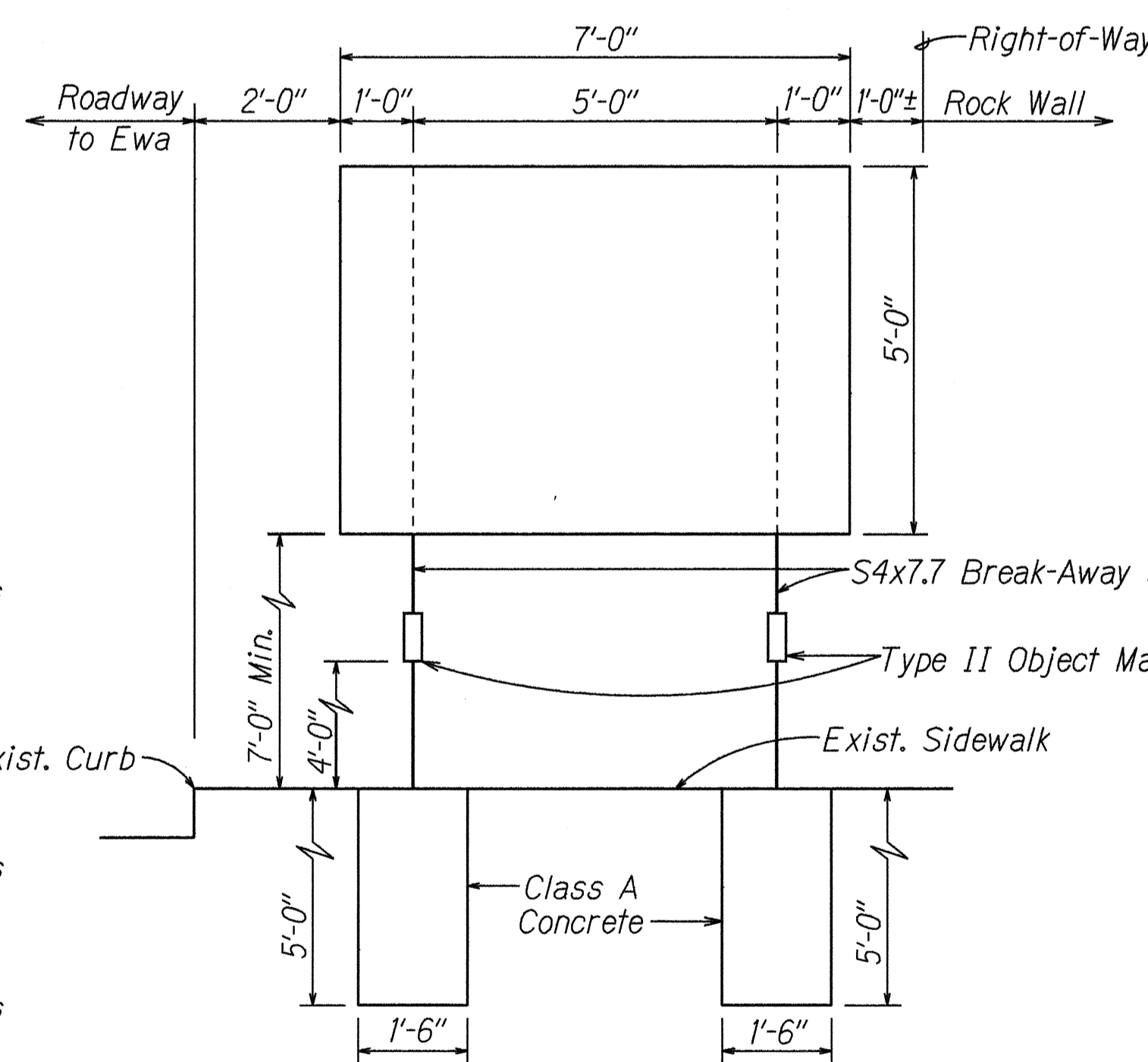
R16-1
 Scale: 1/2"=1'-0"



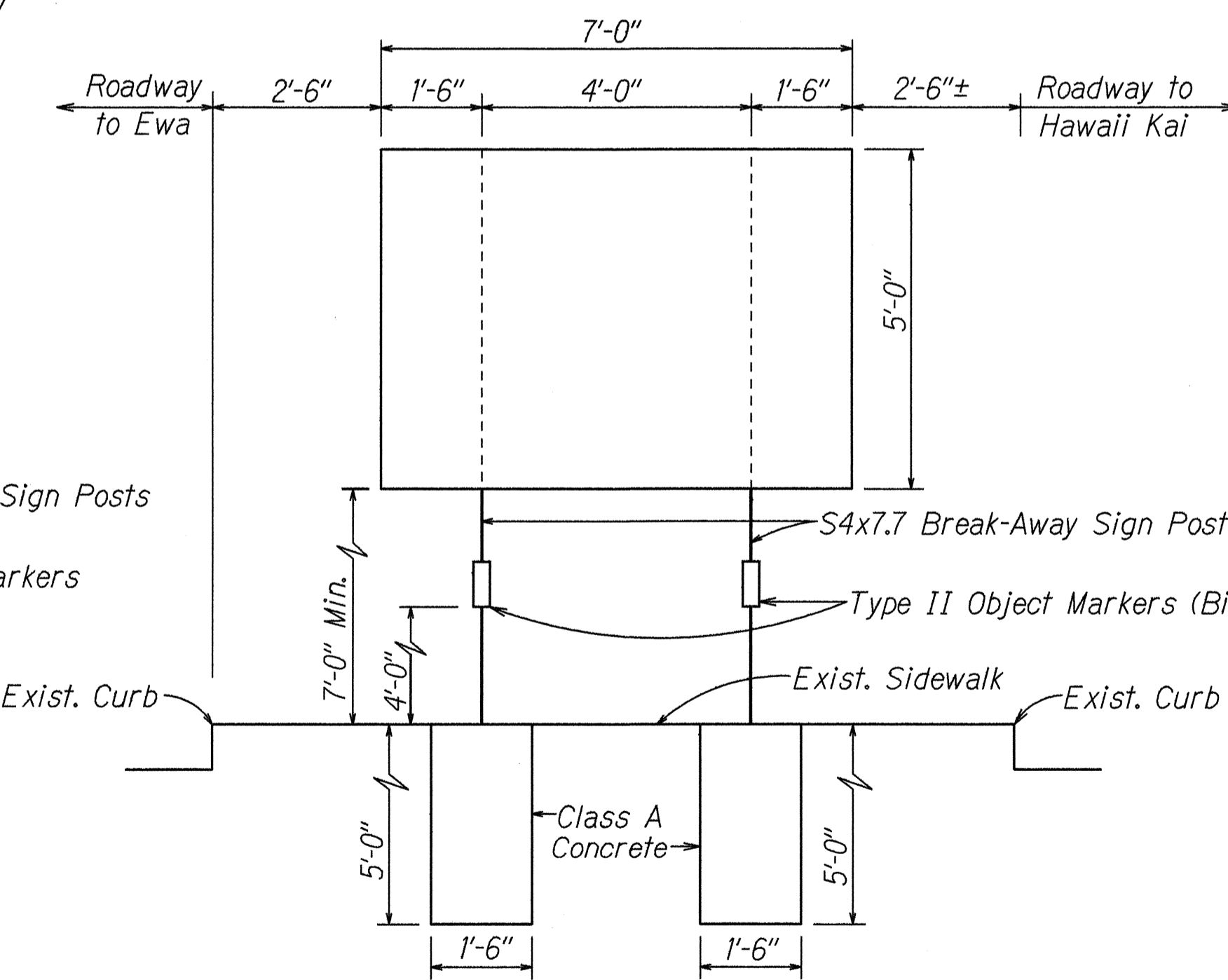
R10-11
 Not to Scale



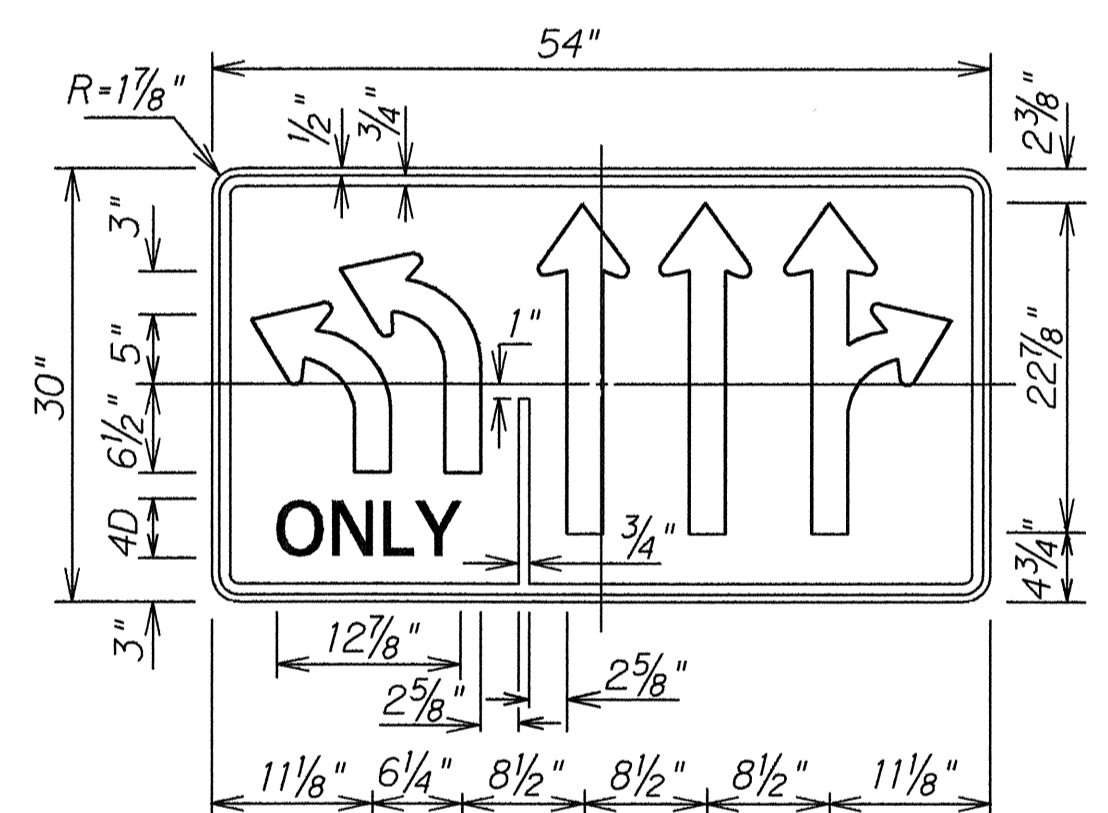
R17-3
 Not to Scale



D-1(R)
 Sta. 142+60± Lt.
 Scale: 1/2"=1'-0"



D-1(L)
 Sta. 136+95± Rt.
 Scale: 1/2"=1'-0"



SIGN R3-23(L)
 Not to Scale

- NOTE:
 1. Sign R3-23(L) is a variation of Sign R3-8.
 2. Plate and arrow details shall conform to Sign R3-8.

DATE	REVISION
11/24/93	Revise Sign D-1(R) & D-1(L)
6/2/93	Revise Frame Layout and Add Signs R10-11, R3-23(L) & R17-3

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGN DETAILS & FRAME LAYOUT
 VINEYARD BOULEVARD RESURFACING
 H-1 Off-Ramp to H-1 On-Ramp
 F.A. Project No. STP-098-1(10)
 Scale: As Shown Date: March 1993
 SHEET No. 18 OF 10 SHEETS

DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD.22	35



R7-107e
Scale: 3"=1'-0"



R7-107f
Scale: 3"=1'-0"



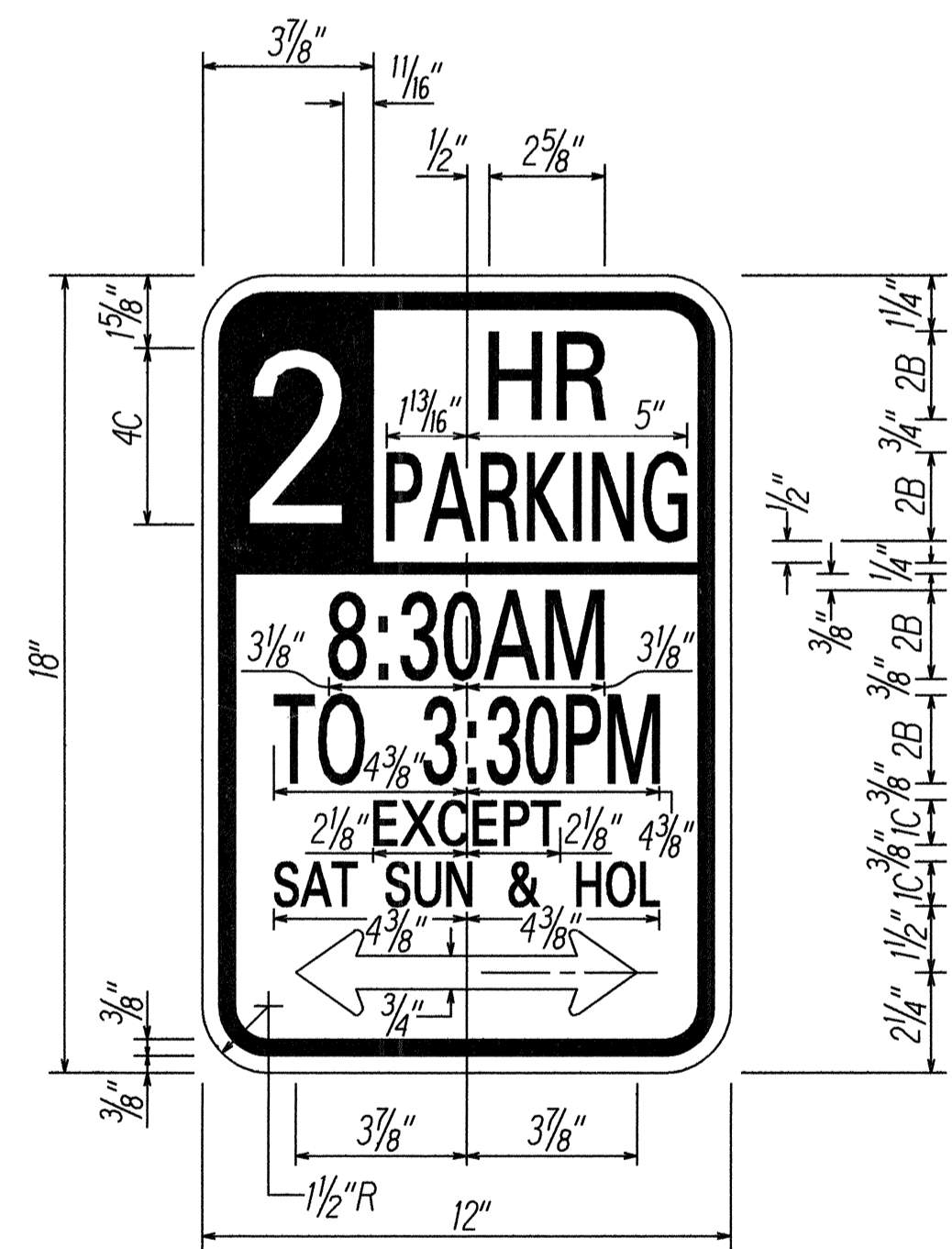
R7-107g
Scale: 3"=1'-0"



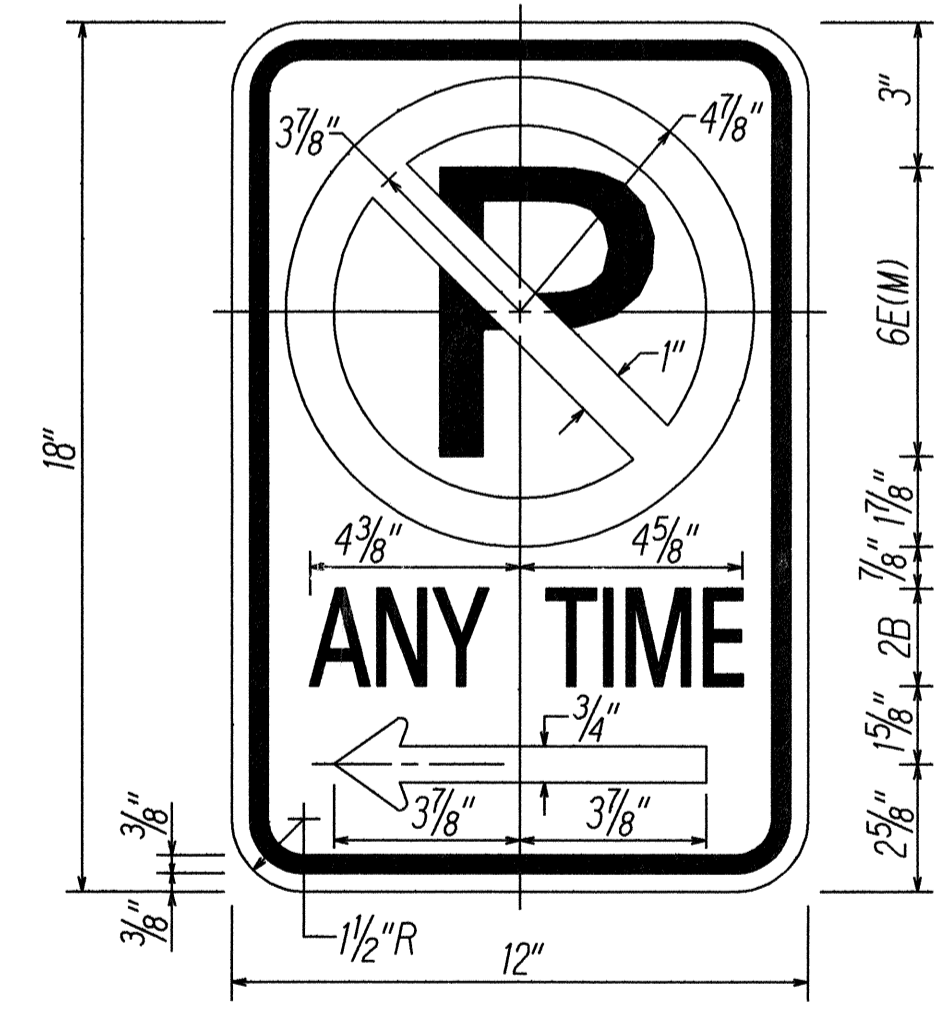
R7-107b
Scale: 3"=1'-0"



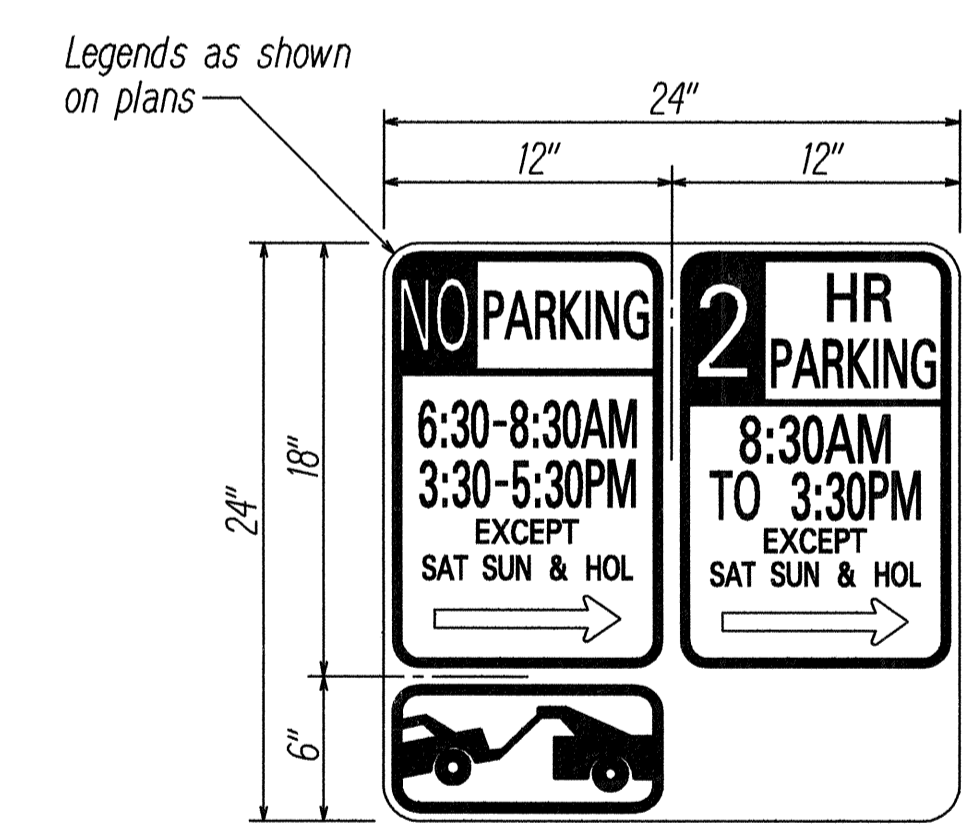
R7-107c
Scale: 3"=1'-0"



R7-108a
Scale: 3"=1'-0"

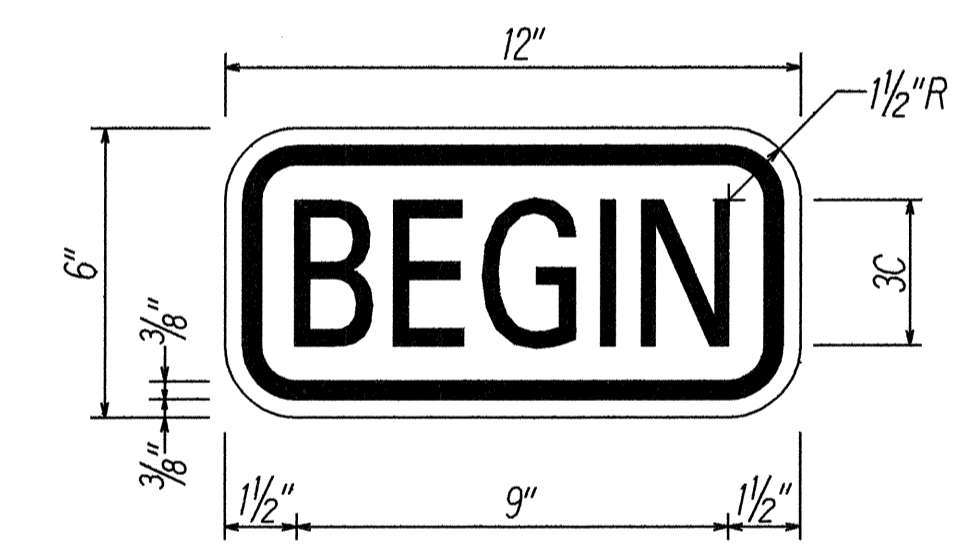


R7-2b
Scale: 3"=1'-0"

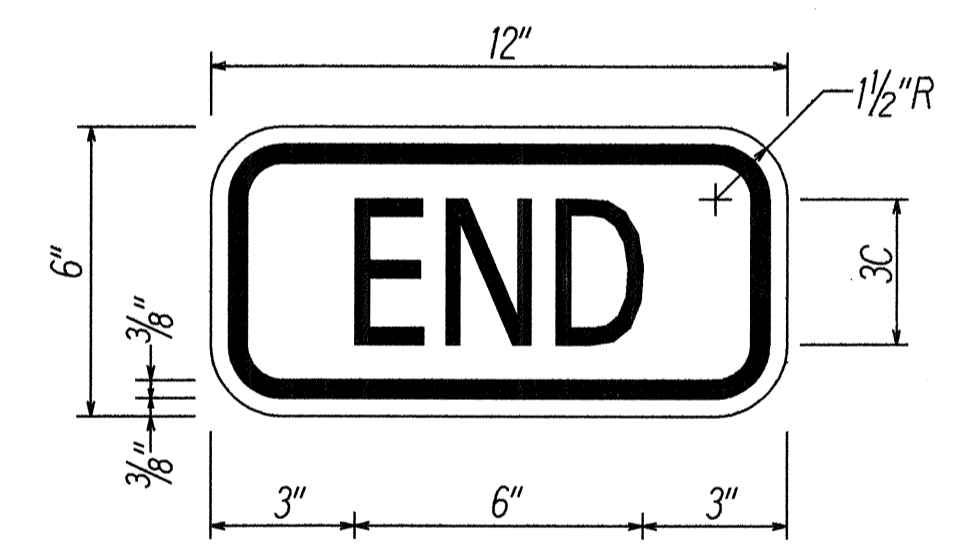


REGULATORY SIGN ASSEMBLY (RSA)
TYPICAL LAYOUT
Scale: 1/2"=1'-0"

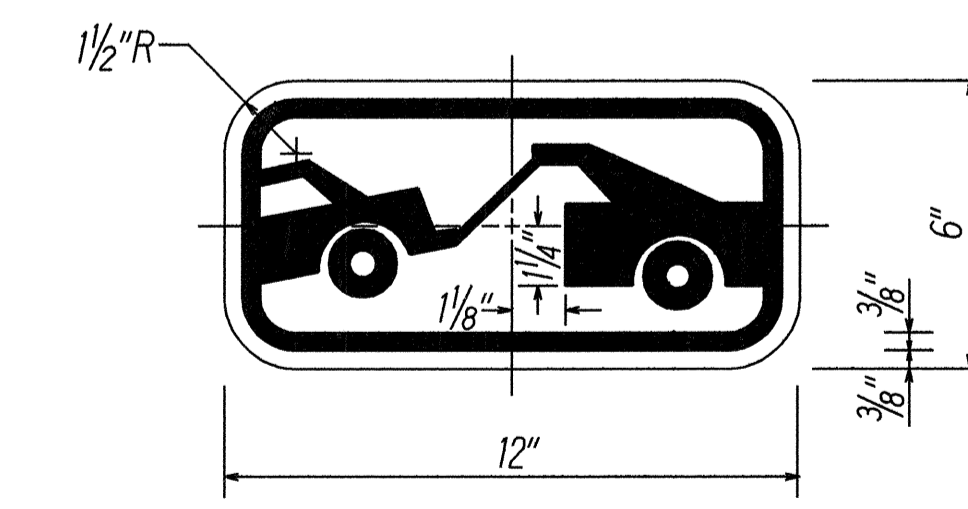
NOTE:
When a combination of regulatory signs are used as shown above, they shall be mounted on a single metal plate, 24"x24", and shall be paid under Item Nos. 621.5600 & 621.5610 per each, complete in place.



R20-1
Scale: 3"=1'-0"



R20-2
Scale: 3"=1'-0"

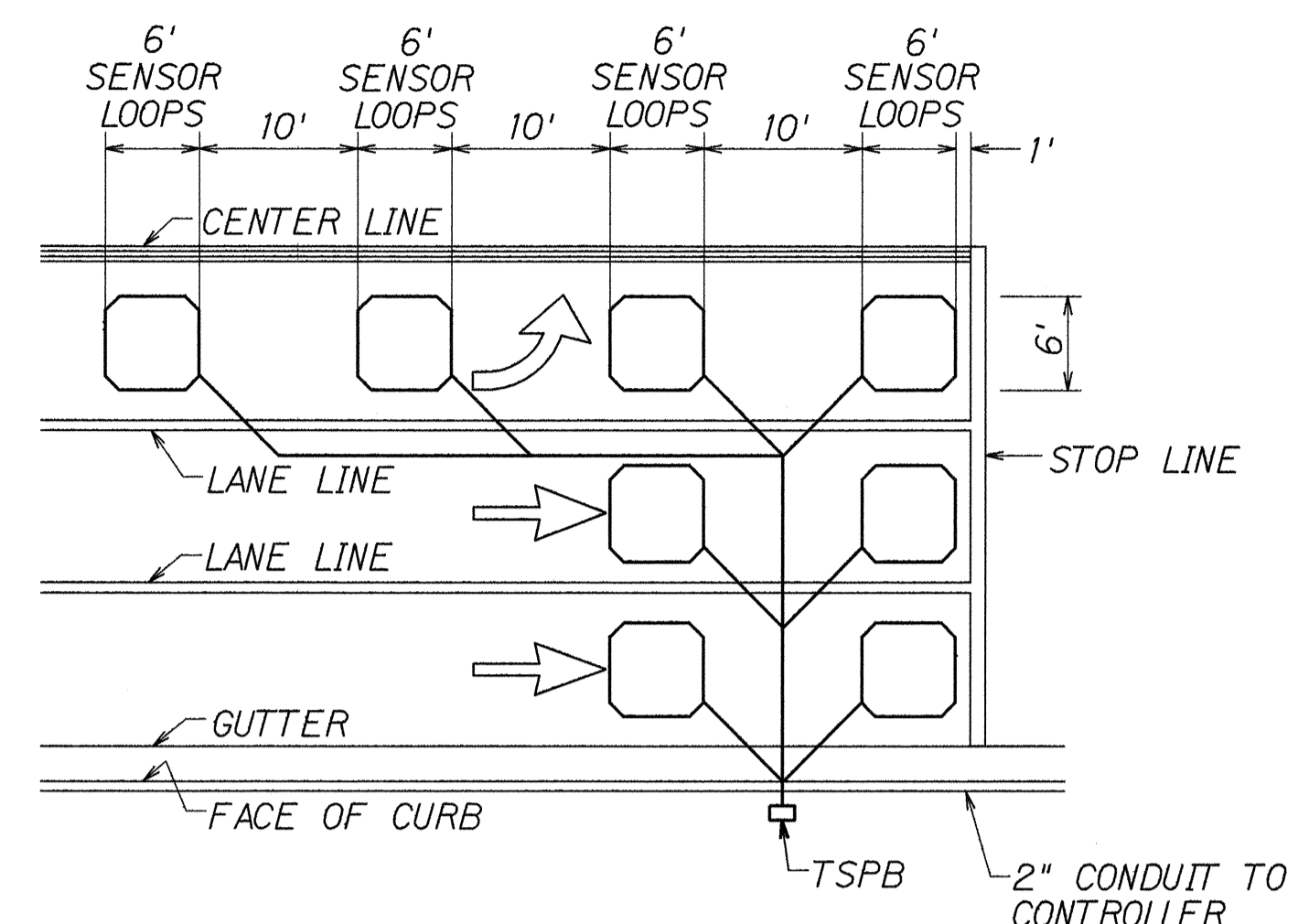


R7-201a
Scale: 3"=1'-0"

DATE	_____
SURVEY PLATTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
N.	_____

6/3/93	Revise Regulatory Sign Assembly
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MISCELLANEOUS TRAFFIC SIGN DETAILS	
VINEYARD BOULEVARD RESURFACING H-1 Off-Ramp to H-1 On-Ramp F.A. Project No. STP-098-1(10)	
Scale: As Shown	Date: March 1993
SHEET No. T9 OF 10 SHEETS	

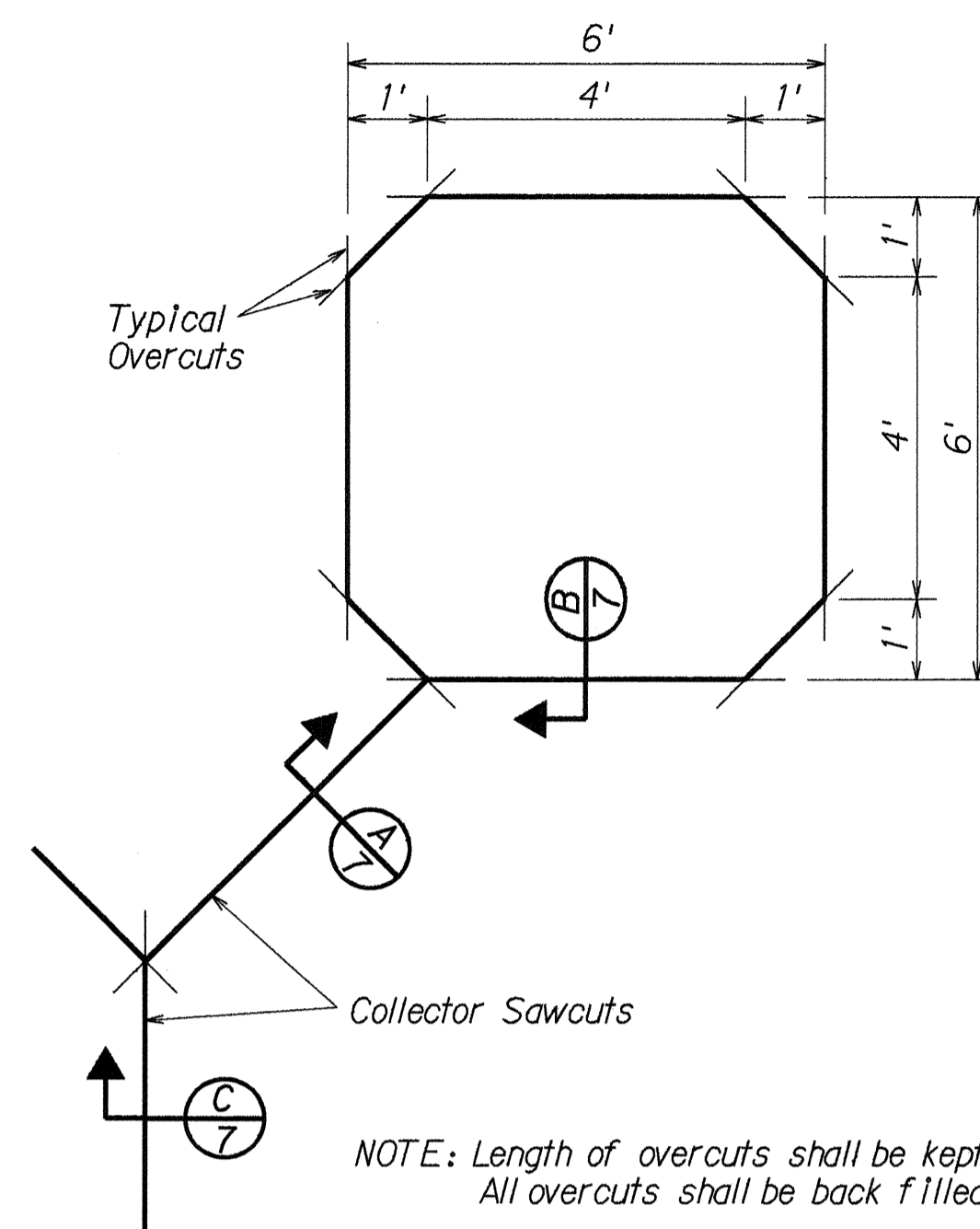
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD22S-1	35



NOTES:

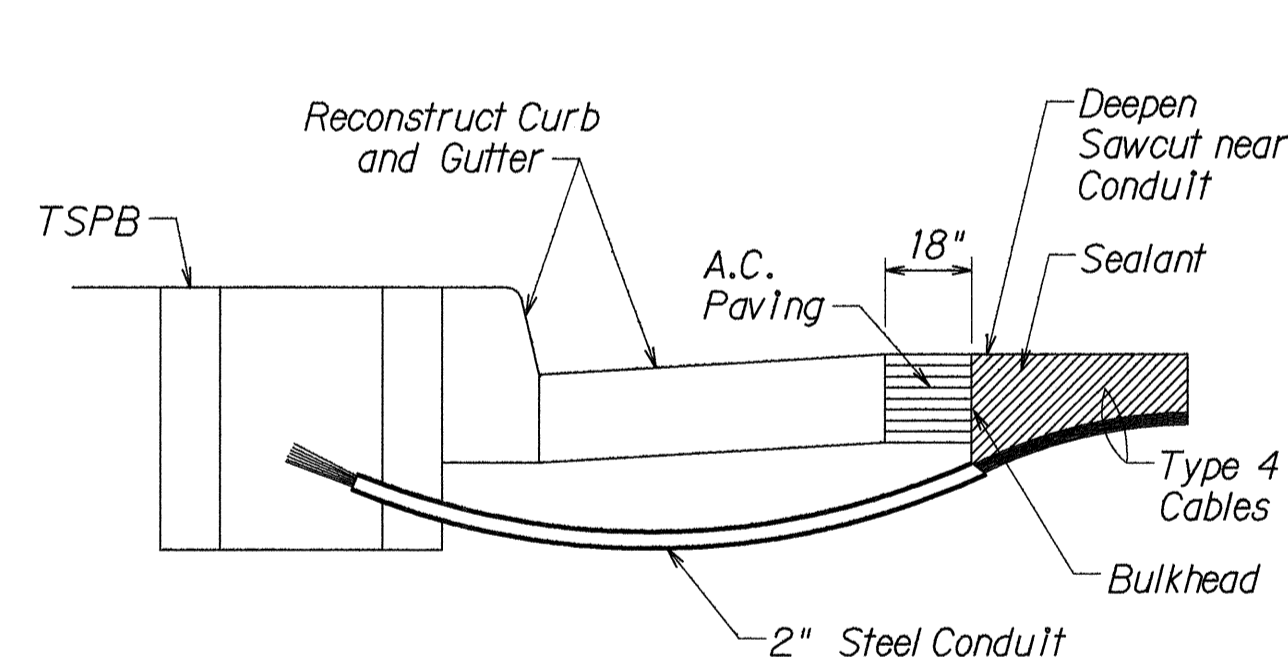
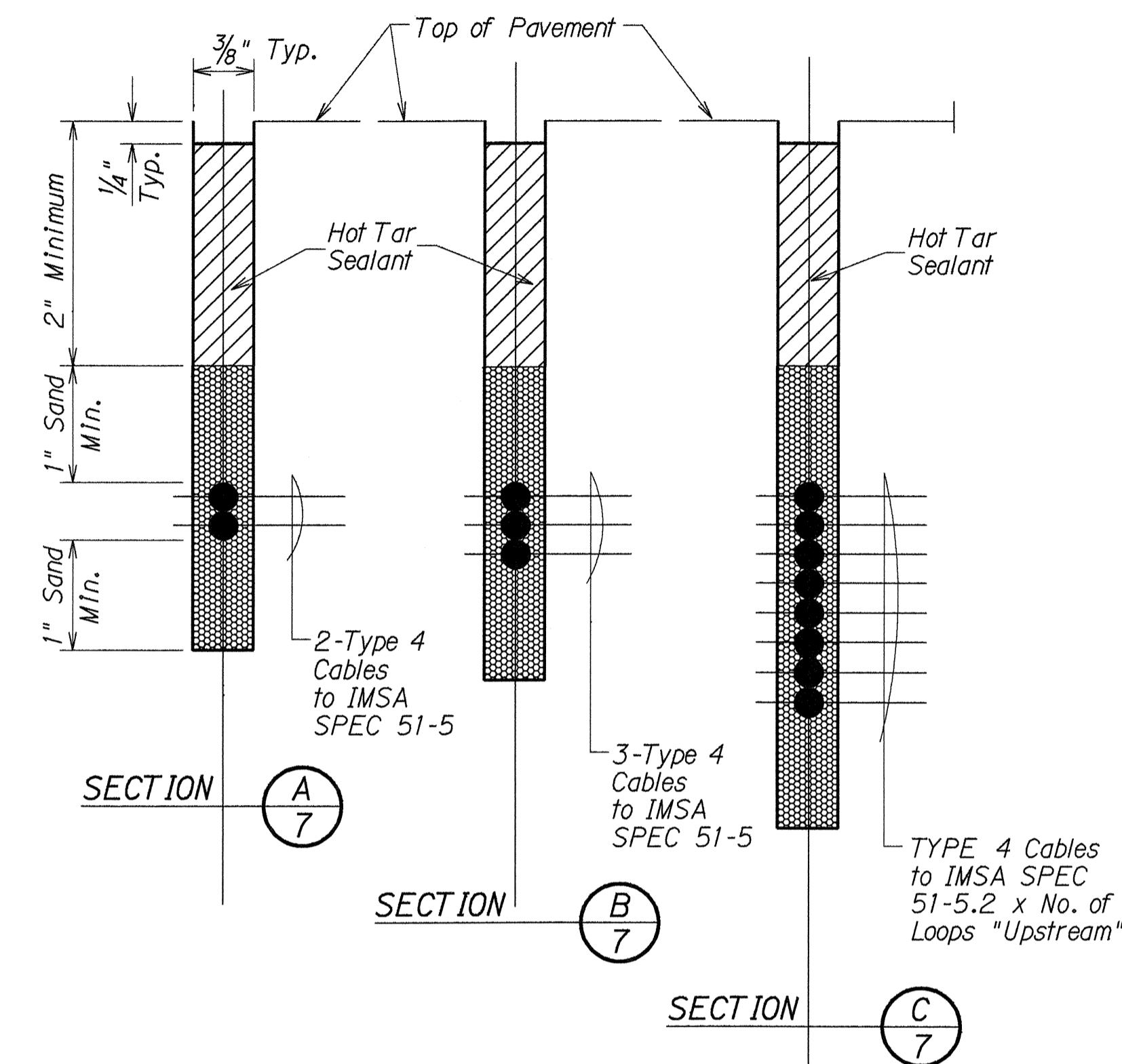
1. Center sensor loops in lanes.
2. Collector cables shall be twisted 2 turns per foot.
3. Number of loops and locations vary. See project plans.
4. Number and locations of collector sawcuts may be varied in the field to suit.

TYPICAL SENSOR LOOP LAYOUT



NOTE: Length of overcuts shall be kept to a minimum. All overcuts shall be back filled with hot tar.

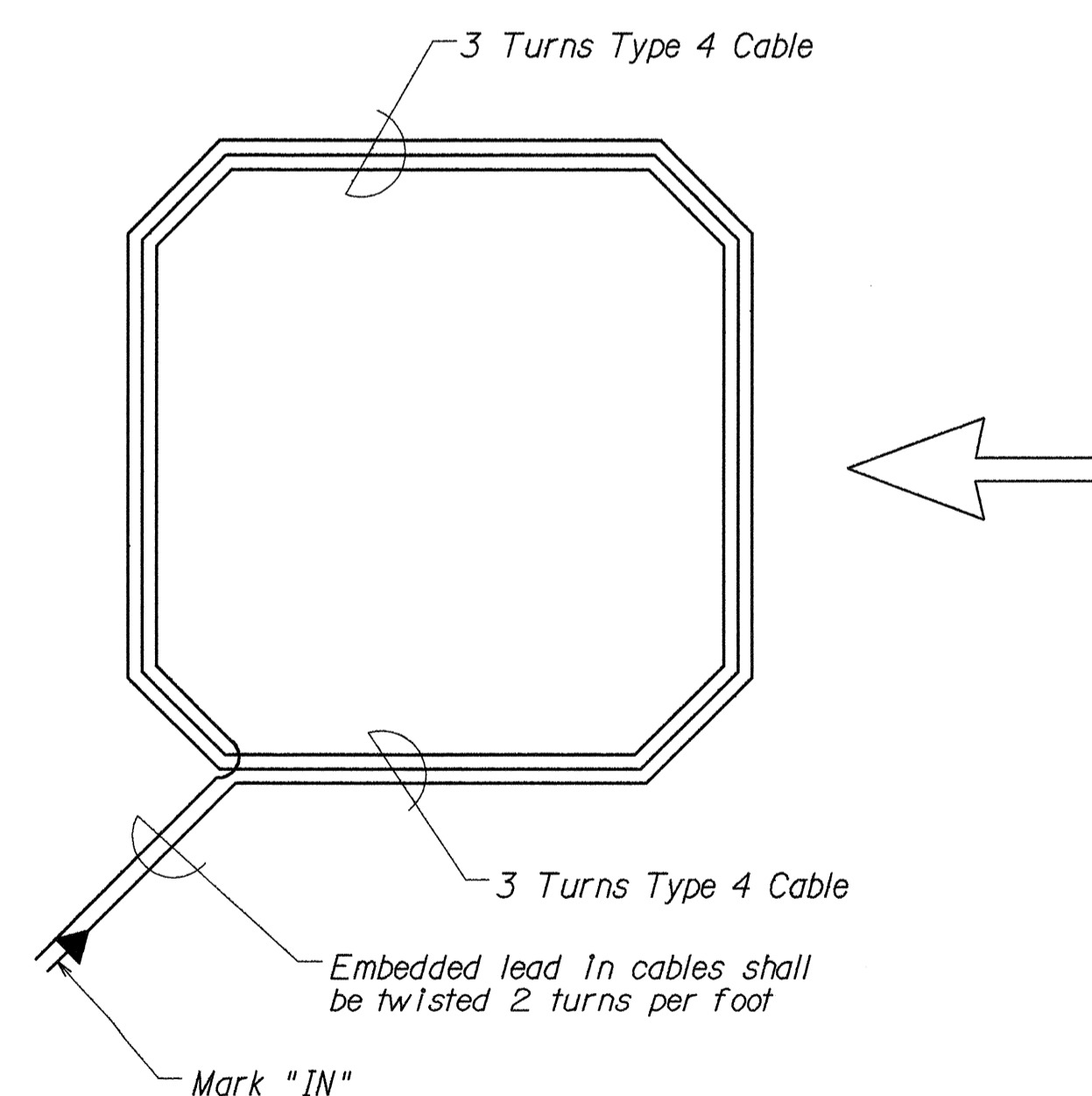
TYPICAL SENSOR LOOP SAWCUT DETAIL



NOTES ON CONSTRUCTION AT END OF SAWCUT

1. Seal roadway end of conduit after installation of conductors.
2. Install bulkhead across conduit trench.
3. Place hot tar in sawcut.
4. Backfill over conduit with new A.C.
5. Reconstruct curb and gutter as required.

DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY



TYPICAL SENSOR LOOP WIRING DIAGRAM

TYPES OF CABLES

- TYPE 1 Signal Loop Cable: Stranded No. 14, 26 conductors
- TYPE 2 Detector Lead-In Cable and Pedestrian Push Button Circuit Cable: Stranded, No. 14, 2 Conductors
- TYPE 3 Interconnect Cable: Solid No. 20, 12 Pairs
- TYPE 4 Loop Sensor Cable: Solid No. 12, Single Conductor to IMSA SPEC 51-5
- TYPE 5 Cable from Signal Loop to Signal Head: Stranded, No. 14, Single Conductor
- TYPE 6 Service Cable: Solid, No. 6, 3 Conductors

6/2/93 Sheet Added to Contract Plan Set Per Addendum No. 1

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR DETAILS

VINEYARD BOULEVARD RESURFACING
H-1 Off-Ramp to H-1 On-Ramp
Fed. Aid Proj. No. STP-098-1(10)

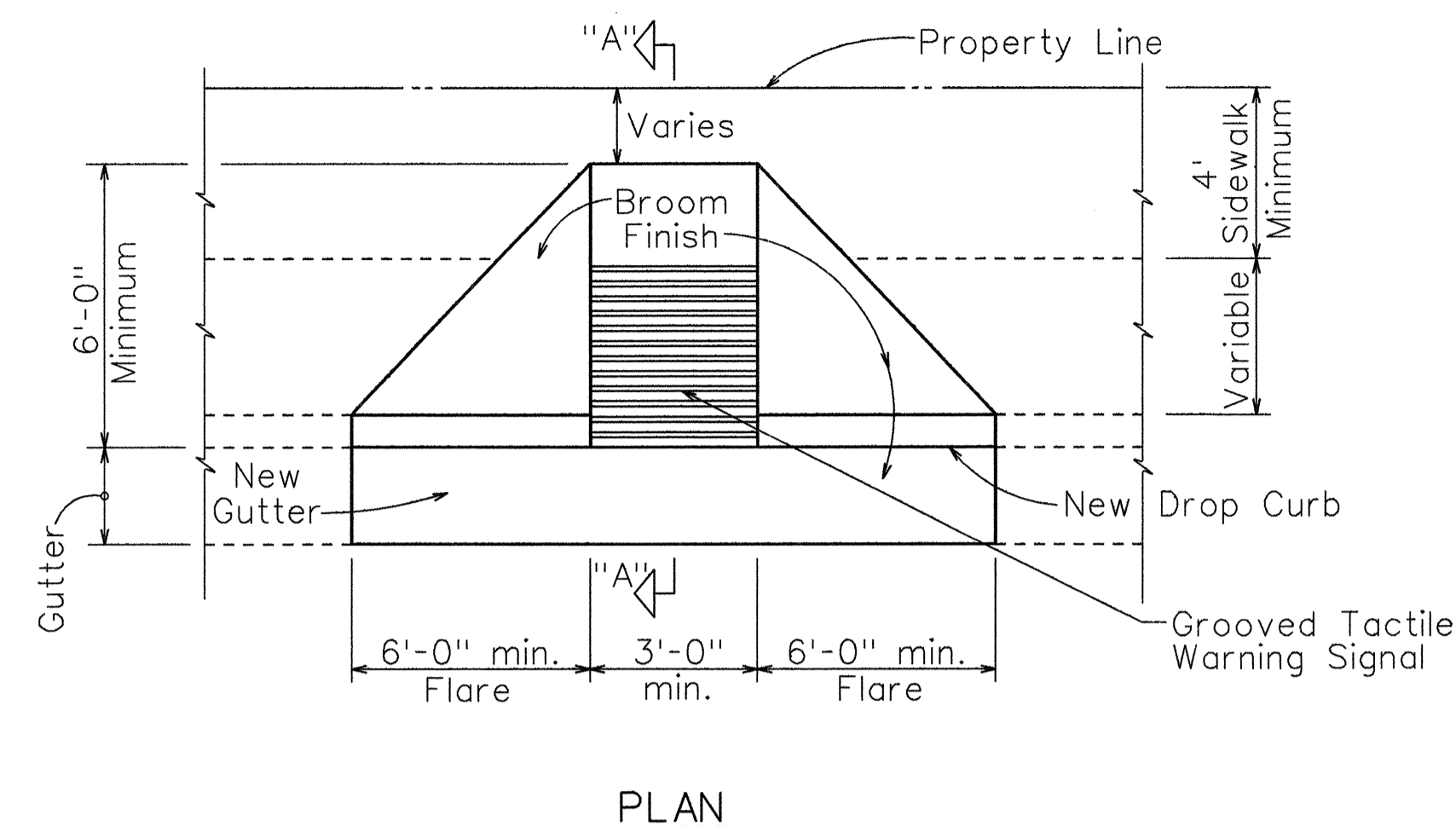
Not to Scale Date: March 1993

SHEET No. 79A OF 10 SHEETS

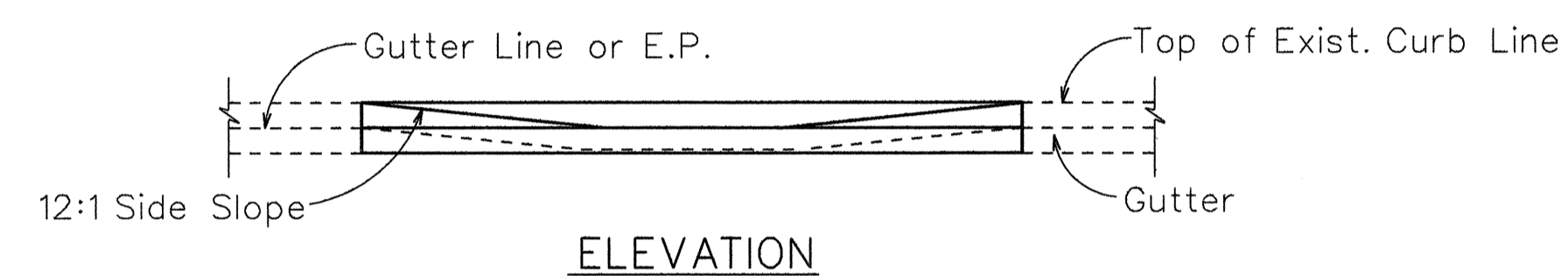
ADD.22S-1

DESIGNED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTIFIED BY	
CHECKED BY	
GENERAL PLAN	
NOTE BOOK	

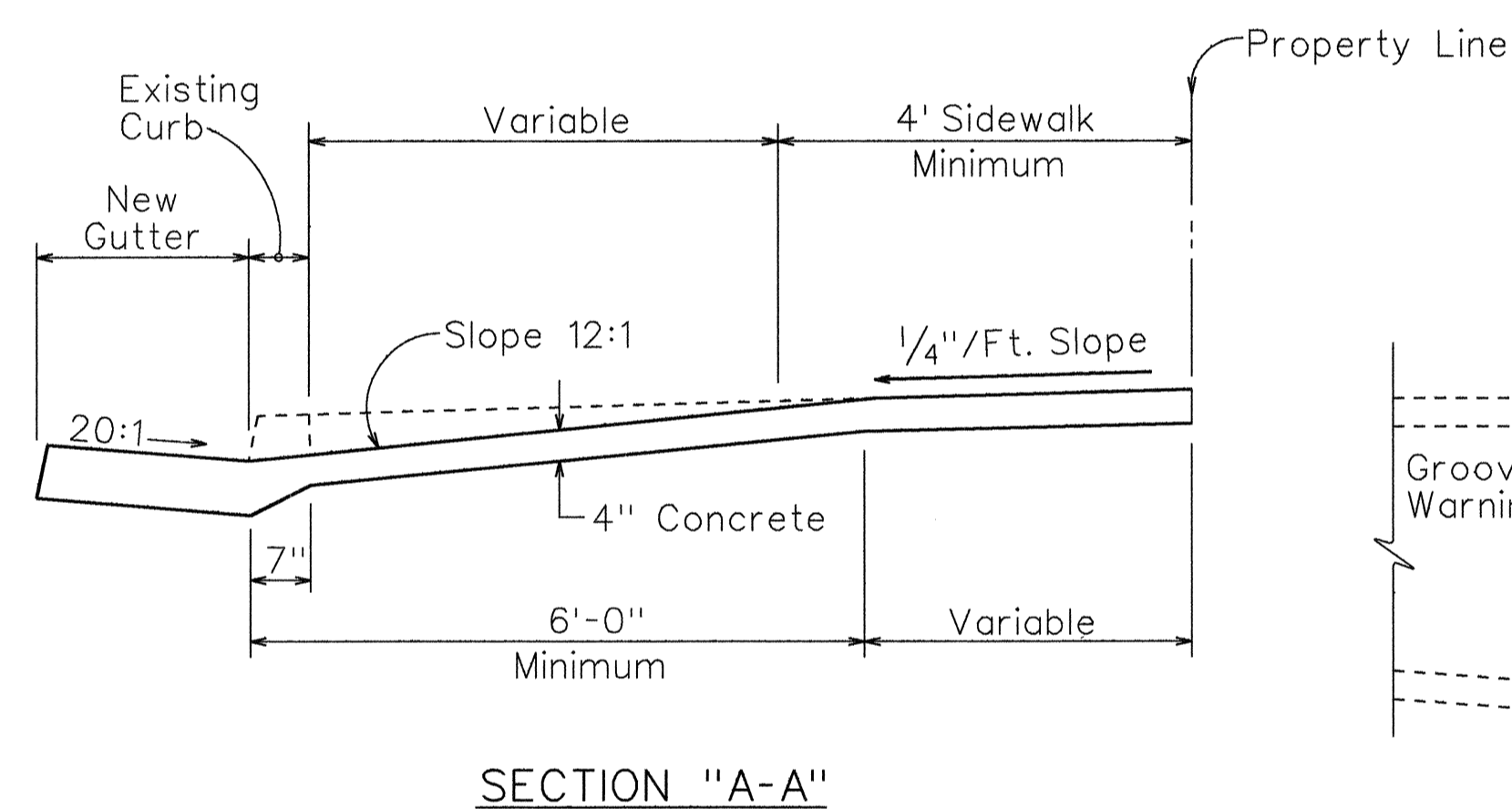
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD22S-3	35



PLAN

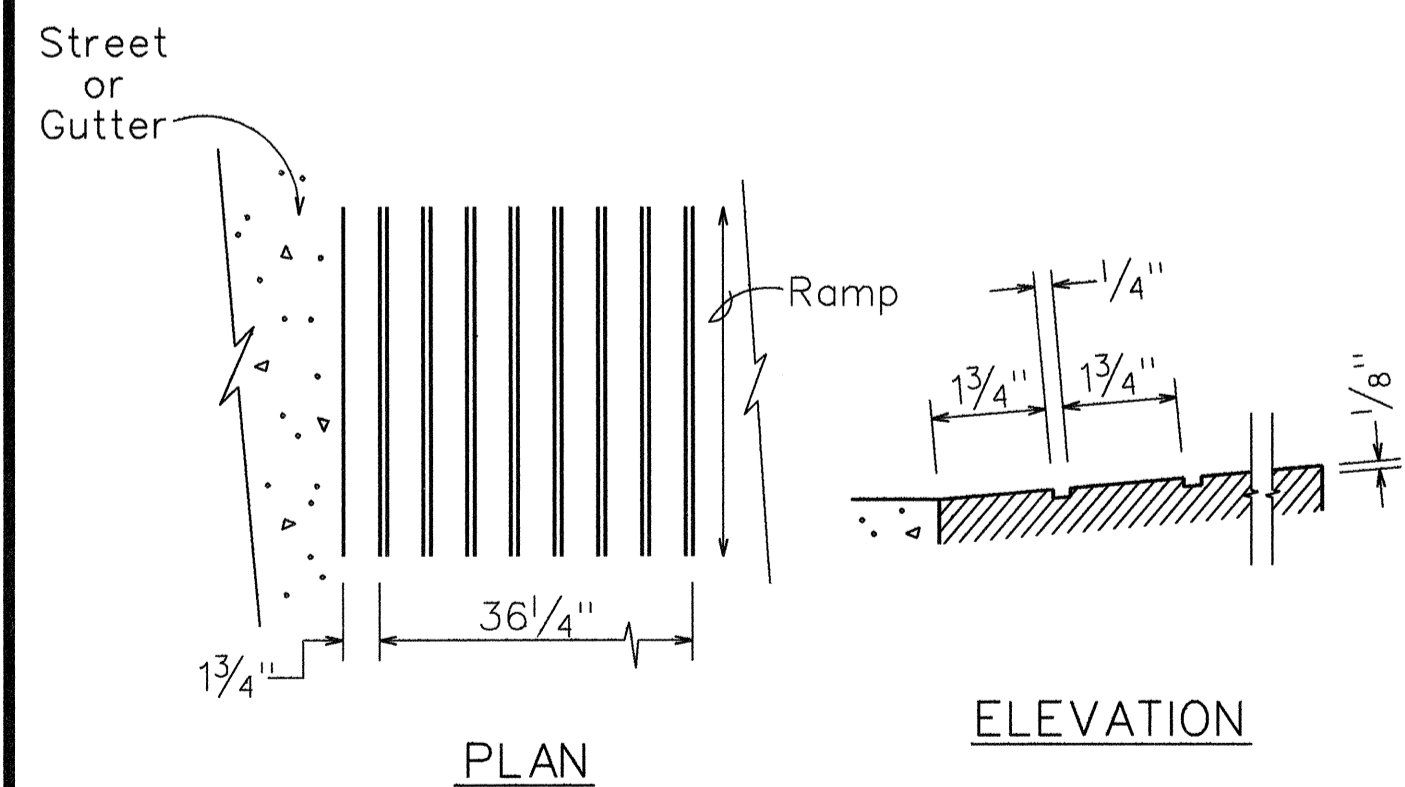


ELEVATION



SECTION "A-A"

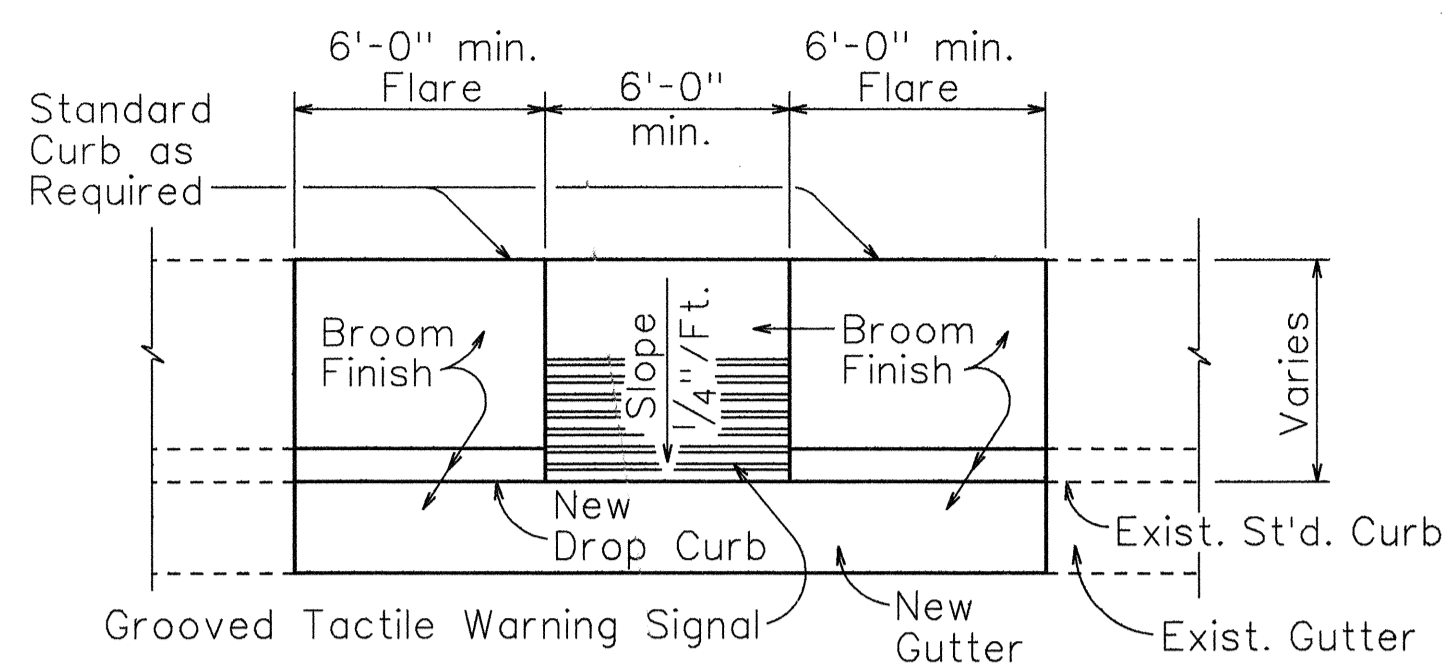
WHEELCHAIR RAMP - TYPE "A"
USE WHERE OBSTRUCTIONS EXIST



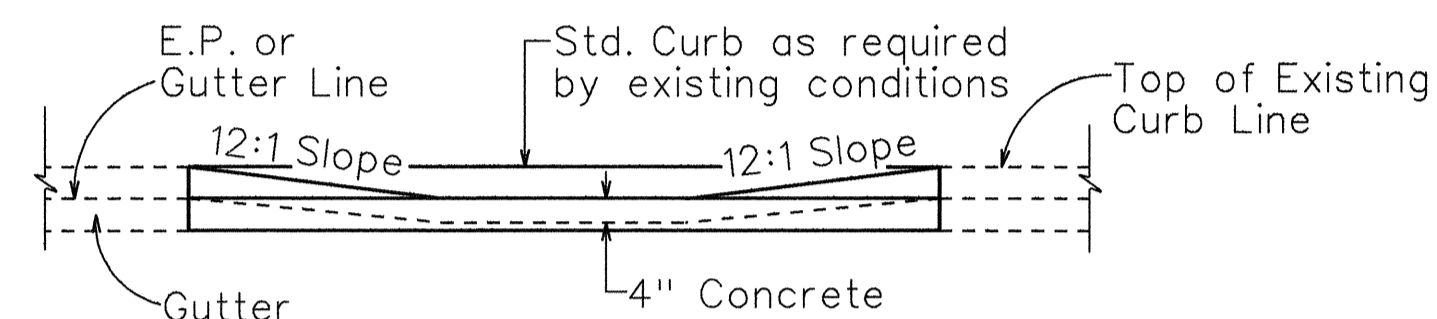
PLAN

ELEVATION

GROOVED TACTILE WARNING SIGNAL



PLAN

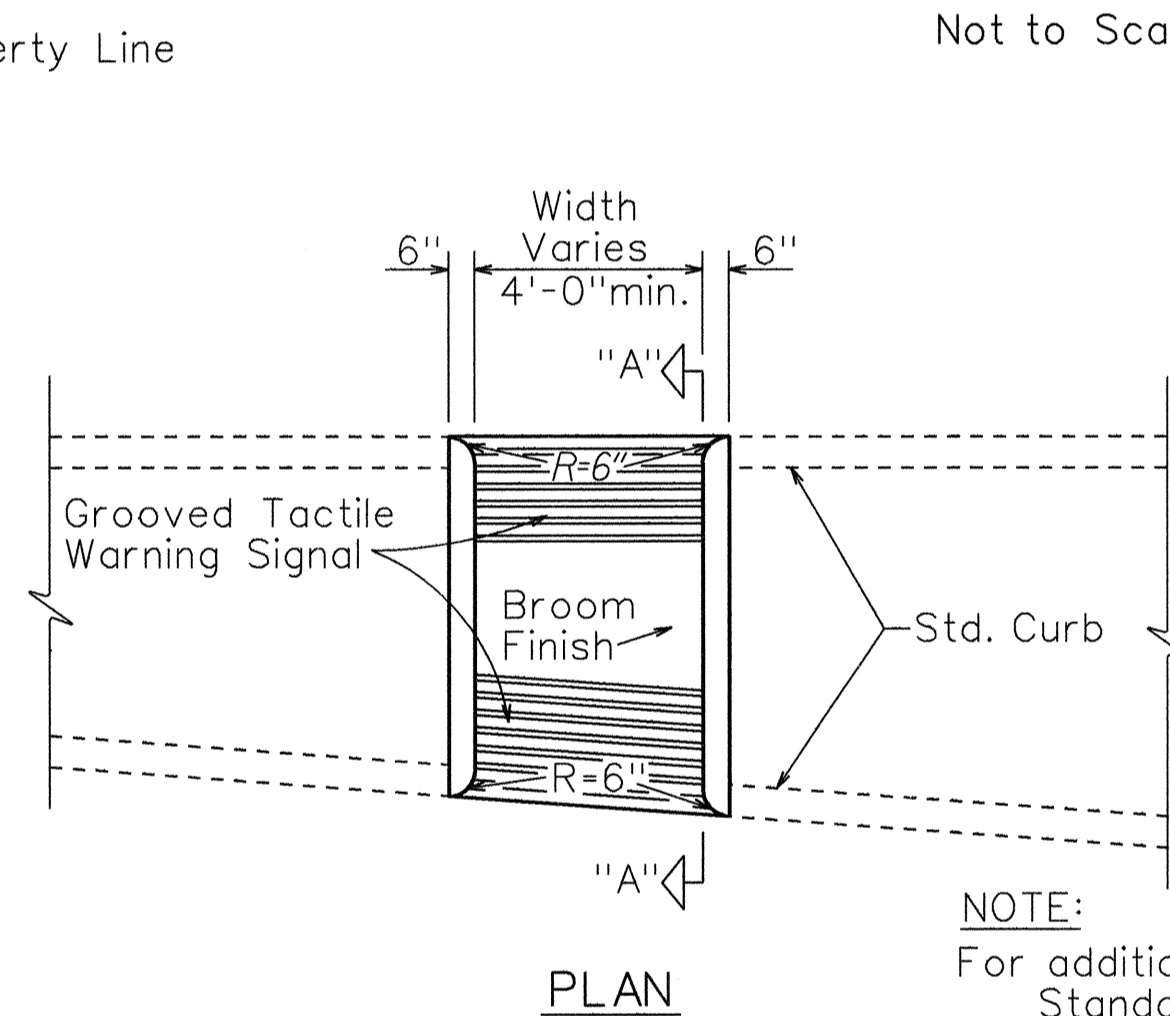


ELEVATION

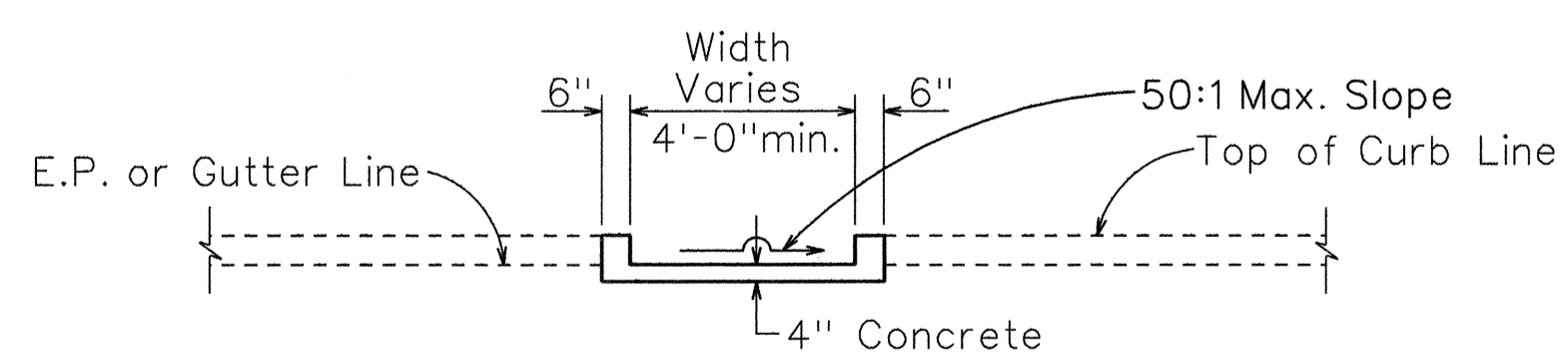
WHEELCHAIR RAMP - TYPE "B"
USE AT SIDEWALKS WITH LESS THAN 6'-0" WIDTH

Not to Scale

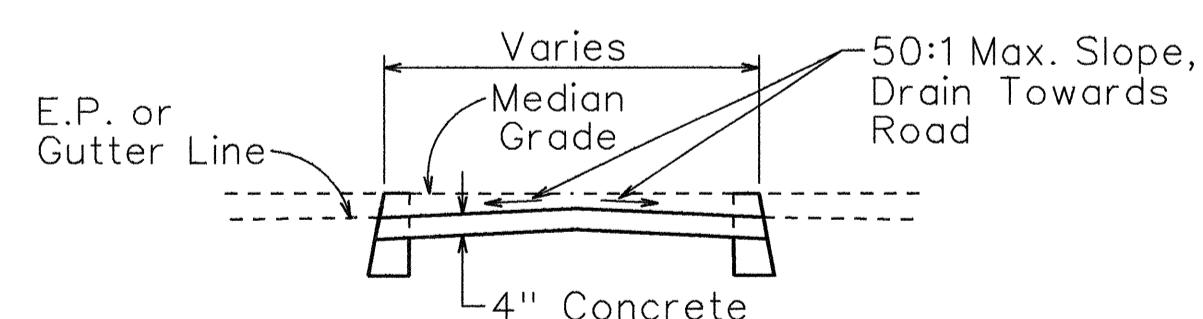
NOTE: Typical Section similar to Wheelchair Ramp-Type "D"



PLAN

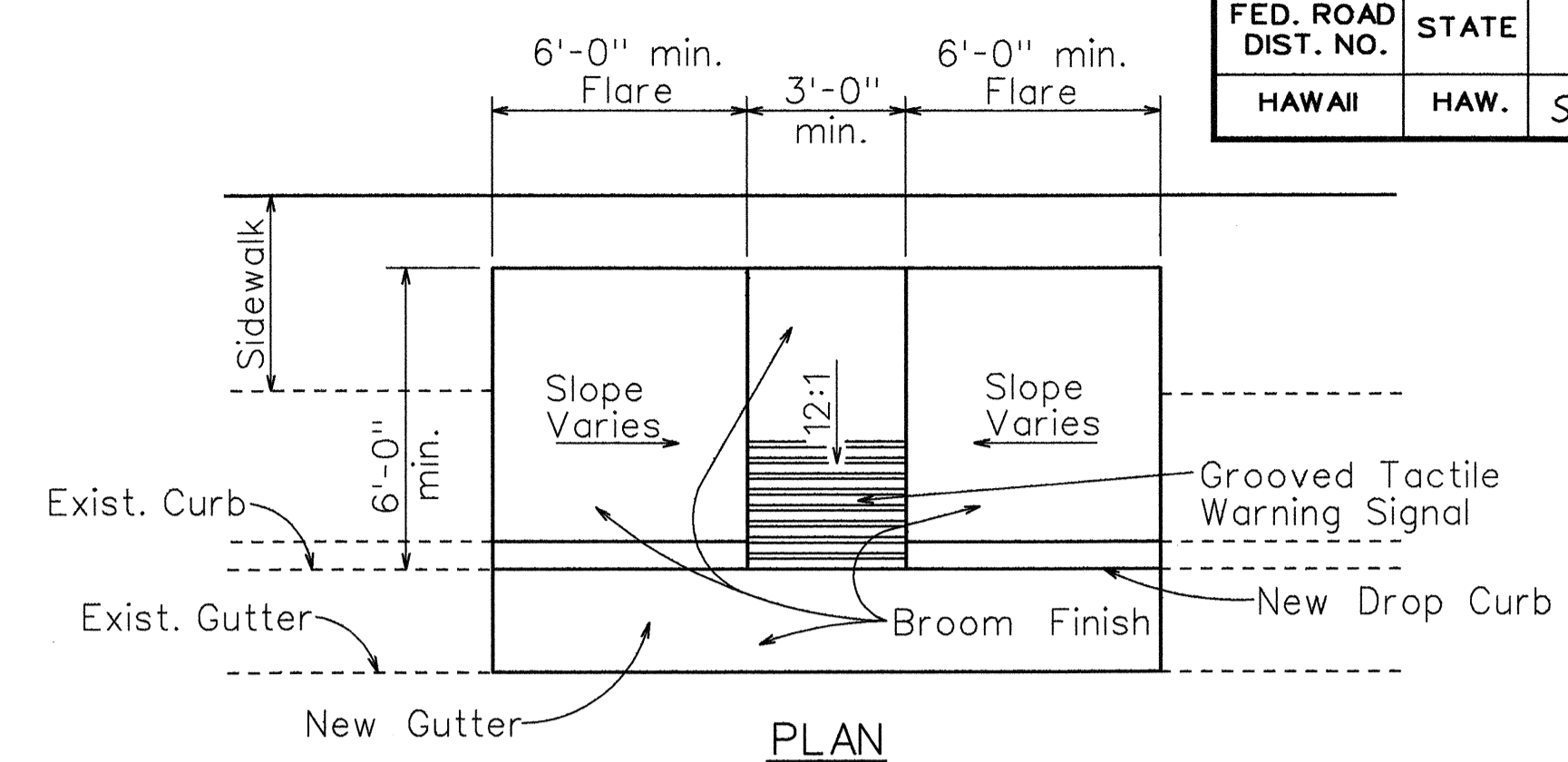


ELEVATION

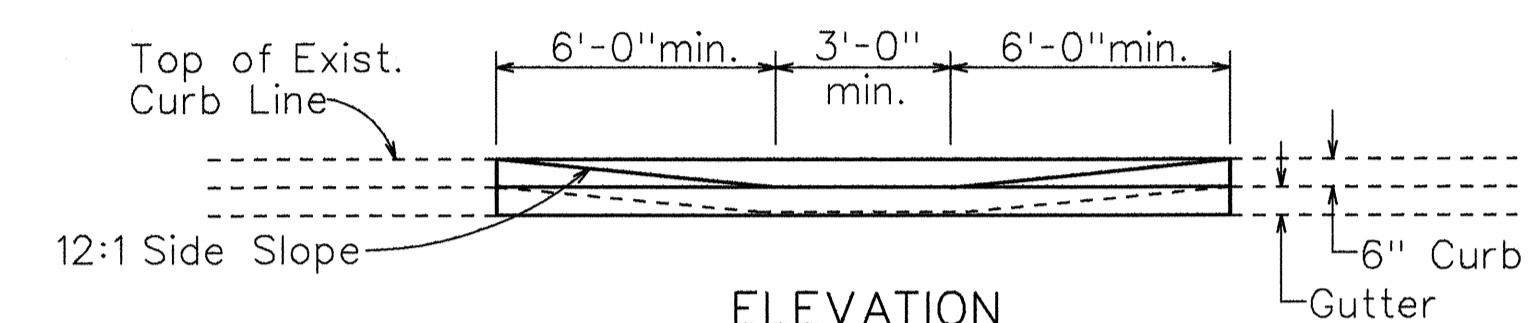


SECTION "A-A"

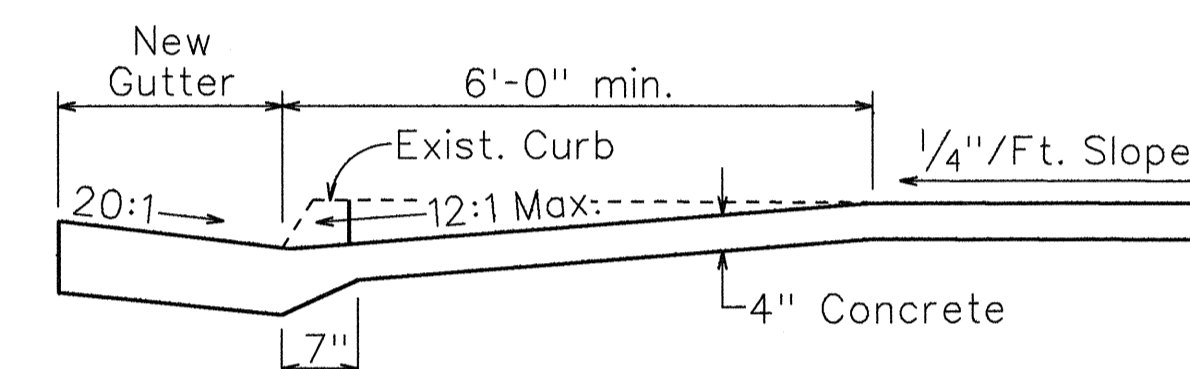
WHEELCHAIR RAMP - TYPE "C"
USE AT MEDIAN CROSSINGS, ISLANDS



PLAN

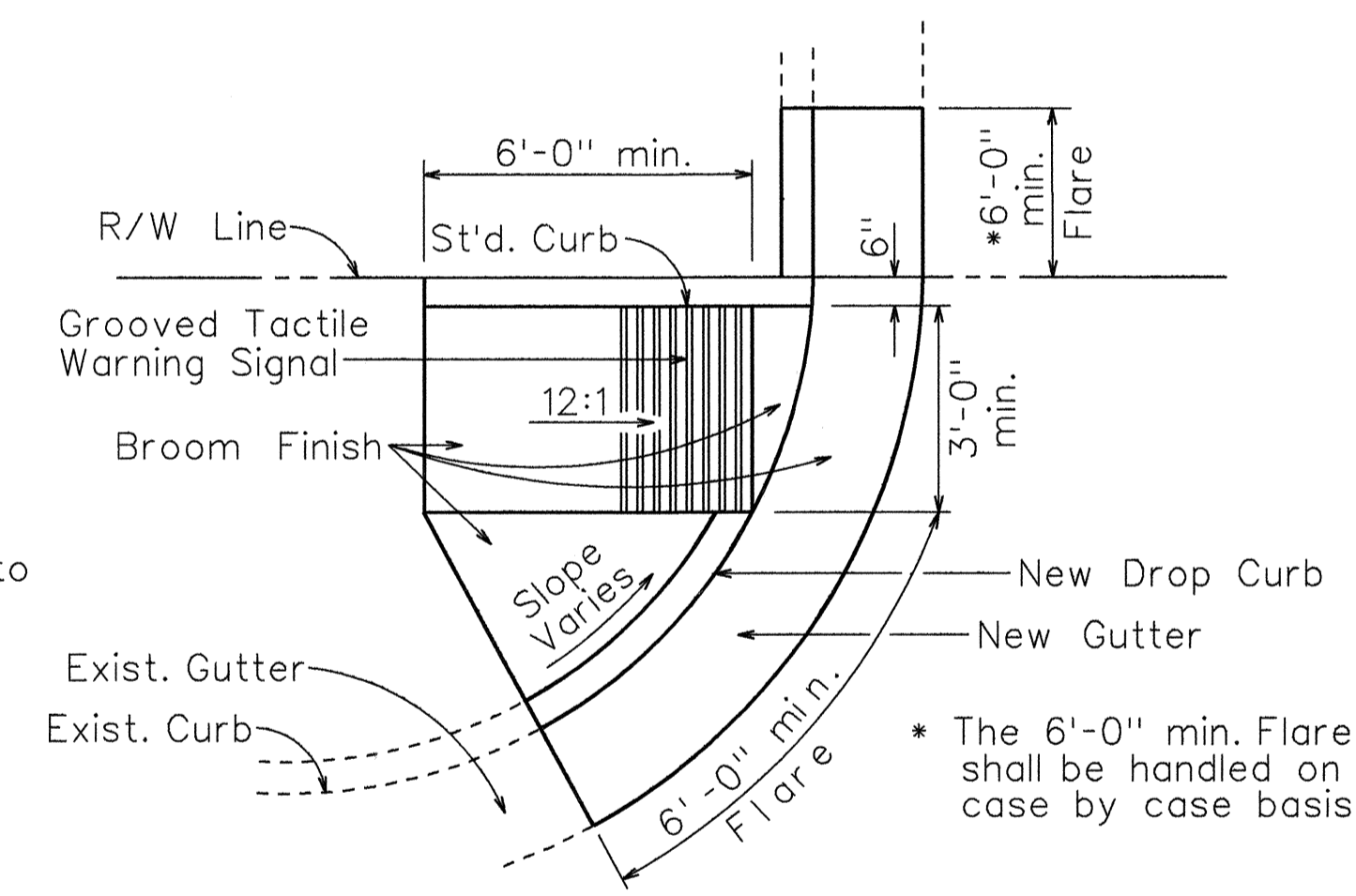


ELEVATION



TYPICAL SECTION

WHEELCHAIR RAMP - TYPE "D"



WHEELCHAIR RAMP - TYPE "E"

USE AT CURBED DRIVEWAYS

* The 6'-0" min. Flare shall be handled on a case by case basis.

GENERAL NOTES:

1. The New Gutter fronting the 3'-0" min. wheelchair ramp shall not exceed a slope of 20:1. Areas without a gutter shall be handled on a case by case basis in order to meet the 20:1 slope requirement.
2. The New Gutter fronting the 6'-0" min. Flares on both sides of the new 3'-0" min. wheelchair ramp shall have a transition slope from 20:1 to the existing gutter slope.
3. When an existing curb exceeds the standard 6" height and 48" is not provided at the top of the ramp, side flares shall have a maximum slope of 12:1.

6/2/93 Sheet Added to Contract Plan Set Per Addendum No. 1

DATE	REVISION
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	WHEELCHAIR RAMP DETAILS
	VINEYARD BOULEVARD RESURFACING
	H-1 Off-Ramp to H-1 On-Ramp
	Fed. Aid Proj. No. STP-098-1(10)
Not to Scale	Date: Mar., 1993
SHEET No. 79C OF 10 SHEETS	

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	

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	STOP	6			
R1-2	YIELD	2			
R2-1(30)	SPEED LIMIT 30			14	11
R3-1		1			
R3-2		1	1		
R3-4			2		
R3-23-A				1	1
R4-7		1	1		
R6-1(R)	ONE WAY	12			
R6-1(L)	ONE WAY	6	1		
R7-107a	TheBus	3	3		
R7-107e	NO PARKING 6-9AM 3-6:30PM EXCEPT SAT SUN & HOL		2		
R7-107f	NO PARKING 6-8:30AM 3-6PM EXCEPT SAT SUN & HOL	3			
R7-201a			48		
R8-3a	ANYTIME	21	22		
R9-3a		3	3		
R9-3b(R)	USE CROSSWALK		3		
R9-3b(L)	USE CROSSWALK		3		
R9-3c-B	STOP FOR PEDESTRIAN IN CROSSWALK		1		
R10-11	NO RIGHT TURN ON RED		1		
R15-1	UNLAWFUL TO LITTER \$500 FINE		1		
R16-1	BUCKLE UP IT'S THE LAW	2			
R16-5	UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 HP, PEDESTRIANS KEEP OUT FREEWAY			3	2
R17-1	ON LEFT ARROW ONLY	12	16		
R17-3	ON LEFT ARROW ONLY NO U TURN	1			
W13-2(30)	EXIT 30 MPH			1	
W14-1-A	DEAD END		1		
S1-1			2		
S2-1			1		
RSA	(Regulatory Sign Assembly)	8	8		
TOTAL		82	120	19	14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-098-1(10)	1993	ADD.23	35

MILEPOST MARKER SUMMARY

SIGN NO.	MESSAGE	W/POST	W/O POST
D10-1	MILE 0		3
D10-1	MILE 1	2	2
D10-1a	MILE 1 ⁷⁶ / ₁₀₀		2
TOTAL		2	7

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A _____	1932 EA.
TYPE C _____	1204 EA.
TYPE D _____	22 EA.
TYPE H _____	340 EA.
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
8-INCH PAVEMENT STRIPE (WHITE) _____	6,185 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	465 L.F.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	19,350 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	17,330 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	1,610 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	415 L.F.
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	4,590 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	680 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	1,530 L.F.
PAVEMENT ARROW _____	75 EA.
PAVEMENT WORD _____	7 EA.
TAPE - TYPE III	
CROSSWALK MARKINGS _____	213 LANES

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)	
				W/O POST	W/POST
D-1(L)	@ Sta. 136+95± Rt.	NATIONAL MEMORIAL CEMETARY OF THE PACIFIC	7'-0"X5'-0"		35.0
D-1(R)	@ Sta. 142+60± Lt.	NATIONAL MEMORIAL CEMETARY OF THE PACIFIC	7'-0"X5'-0"		35.0
D-2	@ Sta. 167+70± Rt.	EXIT 22	7'-6"X6'-0"		45.0
TOTAL				0	115.0

ROUTE MARKER SUMMARY

SIGN ASSEMBLY	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY	
		W/POST	W/O POST
SRM-1	M3-2 EAST M1-6	3	5
SRM-2	M3-4 WEST M1-6	1	4
SRM-3	M4-12 END M1-6	1	1
TOTAL		5	10

NOTE:
The First letter of the Cardinal Directional words (North, South, East, & West) shall be 10 percent larger, rounded up to the nearest whole number size.

CONSTRUCTION SIGN SUMMARY

SIGN NO.	MESSAGE	W/POSTS	W/O POST
CG20-2	END CONSTRUCTION	8	3
CW20-1d	ROAD CONSTRUCTION AHEAD	7	3
TOTAL		15	6

6/2/93
DATE REVISION
Revise miscellaneous traffic summaries

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS TRAFFIC SUMMARIES
VINEYARD BOULEVARD RESURFACING
H-1 Off-Ramp to H-1 On-Ramp
Fed. Aid Proj. No. STP-098-1(10)
Date: Mar., 1993
SHEET No. 10 OF 10 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
CHECKED BY
DATE