

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	37	81

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 Sheet No. T2. 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. All pavement striping shall be as noted on the legend or plans.
7. 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.
8. Backing for all new Regulatory and Warning Signs shall not be spliced.
9. Interstate Route Marker Symbols shall conform to details shown on the plans and as specified in the MUTCD.
 - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - b. "Standard Highway Signs."
 - c. "Standard Alphabets for Highway Signs."
10. All overlay panels and signs 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."
11. Borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
12. Sign messages shall be as indicated on the plan.
13. Sign refurbishing shall consist of removing all existing borders, messages, arrows, symbols and shield from existing sign panel and otherwise clean the existing sign panel prior to installing the background overlay. Overlay panel shall be installed onto the existing sign panels with 1/8" blind rivets with a maximum spacing of 1'-0" o.c. New borders, messages, arrow symbols and shields shall be installed after the background overlay has been properly installed with blind rivets in accordance with the manufacturer's instructions.

14. 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.
15. All existing expressway sign luminaires that are not operational and to remain, shall be made operational. All additional materials and labor which are necessary to complete this work, shall be considered incidental to the various contract items, and no additional compensation will be allowed therefor.
16. Existing damaged steel framing luminaire supports, shall be repaired or replaced prior to installing the new sign luminaires. This work shall be considered incidental to Item No. 622.2300 - Replacement of Existing Luminaires with 175 - Watt Metal Halide Luminaires for Expressway Sign Lighting.
17. All new and relocated signs and markers installed on pipe posts, light standard or expressway sign post are to be mounted with band brackets and steel braces.
18. 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.
19. Removal of Existing Delineators and Posts shall be considered incidental to their respective contract items.
20. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as directed by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
21. Incidental parts and services, including sign lighting system, not shown on the plans or specified but deemed necessary for the sign reposition, shall be furnished and installed by the Contractor as part of the work contracted.
22. Remove all existing reflector markers and posts where new reflector markers are to be installed. Removal and disposal shall be considered incidental to Reflector Marker items.

EXPRESSWAY (E) AND DESTINATION (D) SIGN NOTES

1. The Contractor shall verify the locations and dimensions of existing Sign Panels, supports, and framing.
2. The amount and center-to-center spacing of Expressway Sign Luminaires shall be in accordance with the luminaire manufacturer's instructions. Maximum center-to-center spacing of luminaires shall be 10-feet.
3. The clearance between the highest point on the pavement and the lowest point on the overhead sign luminaires shall be 17 feet.
4. Moving existing Exit Number Sign Panels to the right edge of Expressway or Destination Signs shall be considered incidental to Item No. 621.0600- Overlay Panel for Exit Number Sign.
5. For details of Exit Number Panels, see Sheet No. T30.
6. "EXIT ONLY" Panels shall have a black legend on a high intensity reflectorized yellow background. For Details, see Sheet No. T2.
7. For details of Gore Exit Signs, see Sheet No. T30.
8. New sign panels shall be laminated aluminum or extruded aluminum.
9. Letter Size:
 - a. When letters are all uppercase, use series "E"
 - b. When initial uppercase letter is used in conjunction with lowercase letters, use series "E" (M) for uppercase letter.
10. 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.
11. Covering of arrows shall be considered incidental to Item No. 621.0100 - Panel for Destination Sign.
12. Destination Sign Posts shall be as noted on the plans.
13. Expressway (E) and Destination (D) Signs with a prefix "W" shall be fabricated in accordance with their respective specifications except the background shall be yellow and the lettering black.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

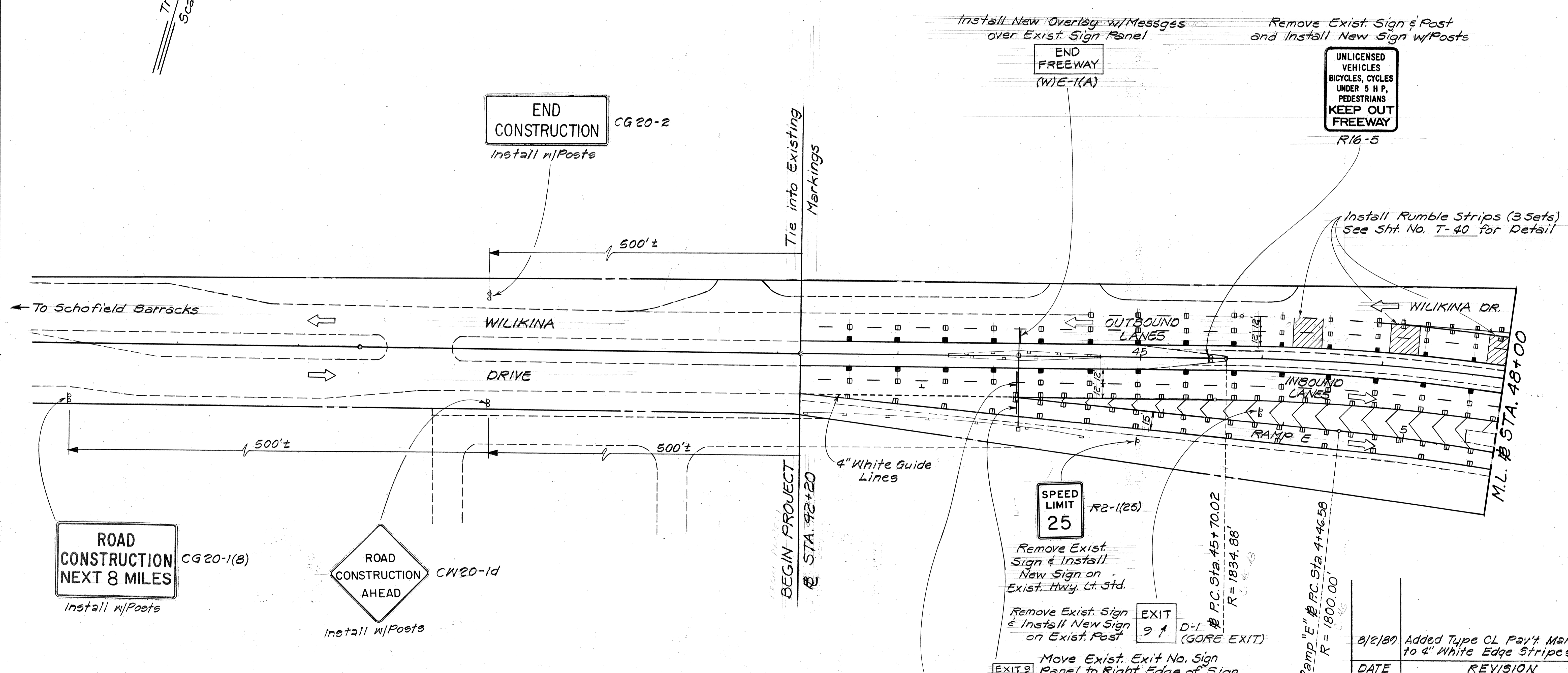
NOTES

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIKAWA I.C. TO WAIKAWA I.C.
F.A.I. PROJ. NO. IR-H2-1(24)
Date: Apr., 1989

SHEET No. 71 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	39	81

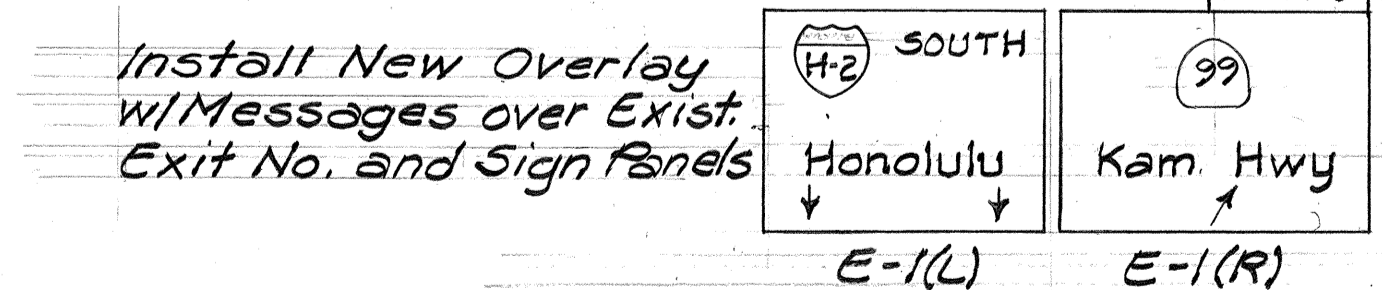
True North
Scale: 1" = 40'



DATE	
ORIGINAL PLAN	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

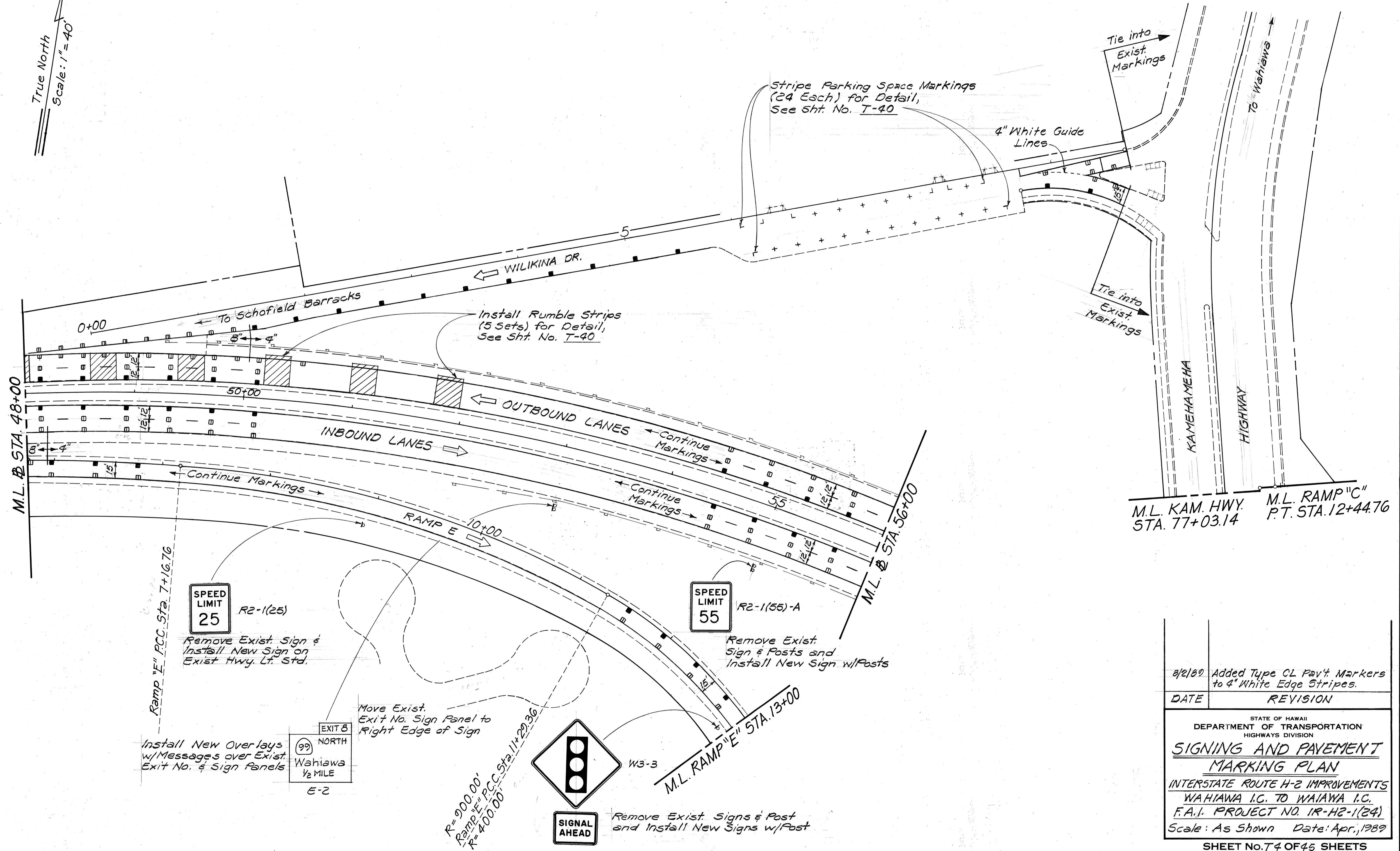
DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIKAWA I.C. TO WAIKAWA I.C.
F.A.I. PROJECT NO. IR-H2-1(24)
Scale: As Shown Date: Apr, 1989
SHEET No. 73 OF 45 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	40	81

True North
Scale: 1" = 40'



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

DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

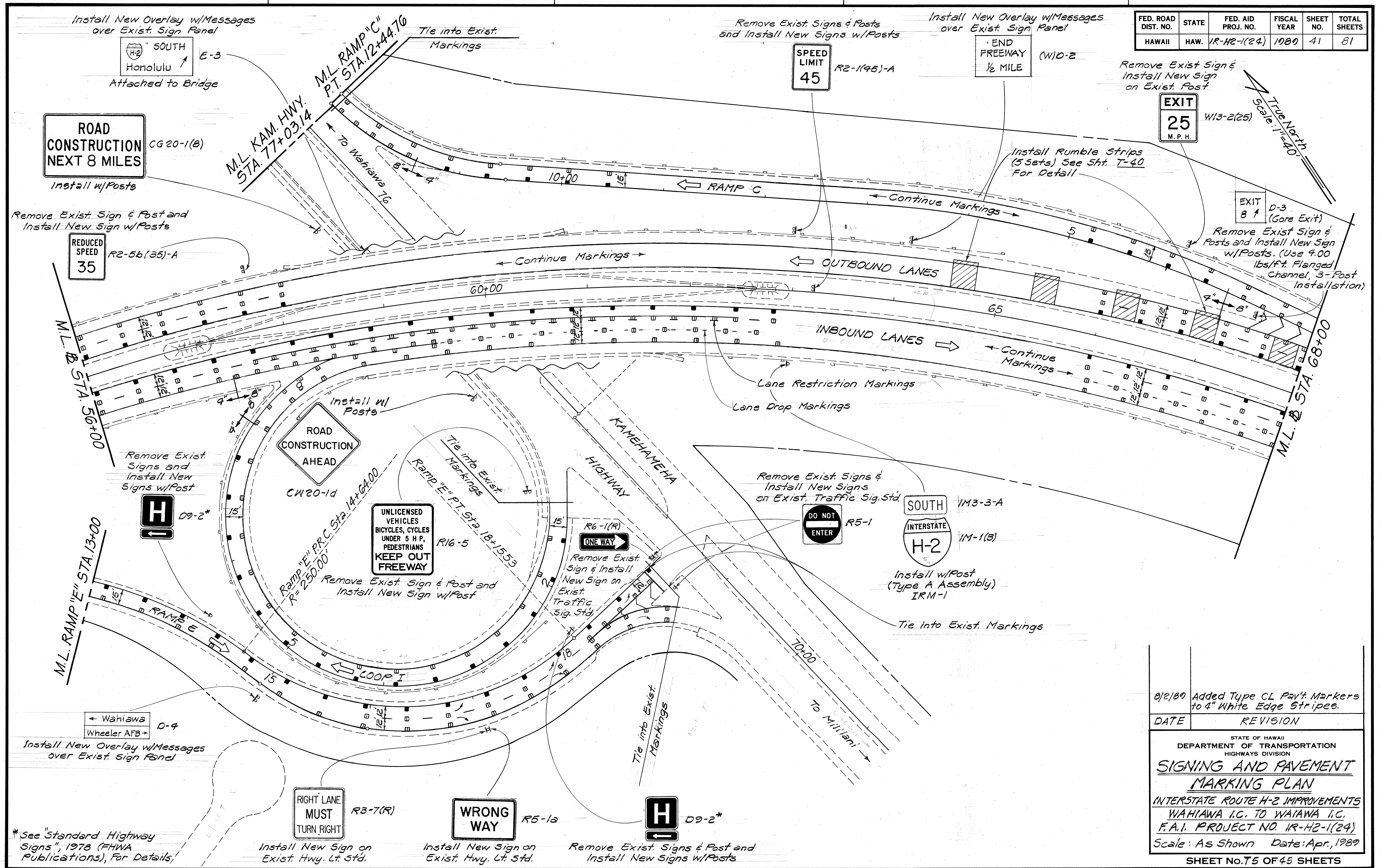
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAHIAWA I.C. TO WAHIAWA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Scale: As Shown Date: Apr., 1989

SHEET NO. 74 OF 46 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	41	81



DATE	
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
NO.	

DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

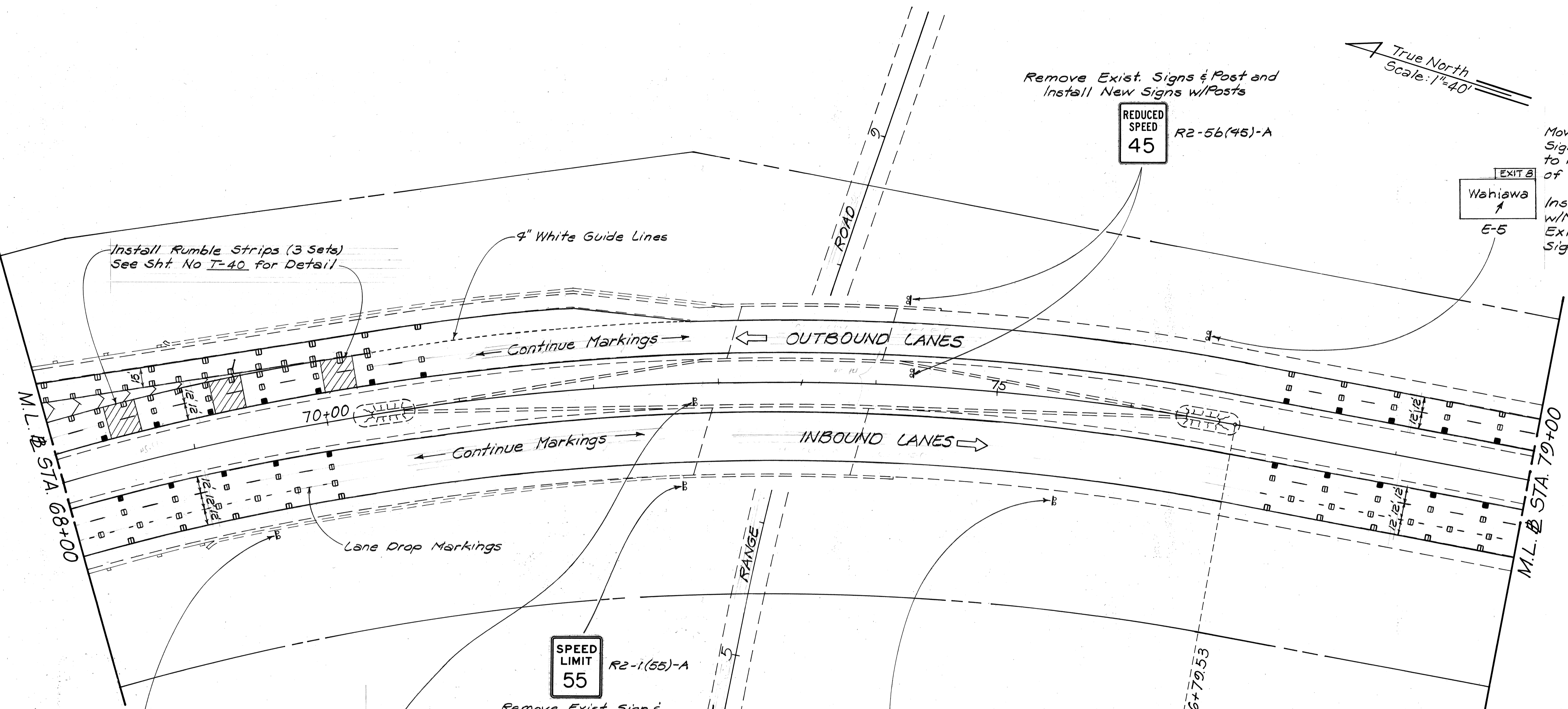
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAIHAWA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Scale: As Shown Date: Apr., 1989

SHEET NO. 75 OF 45 SHEETS

* See "Standard Highway Signs", 1978 (FHWA Publications), For Details.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	42	81

True North
Scale: 1"=40'



Remove Exist. Signs & Post and Install New Signs w/Posts

REDUCED SPEED 45 R2-56(45)-A

Move Exist. Exit Sign No. Panel to Right Edge of Sign
Install New Overlays w/Messages over Exist. Exit No. & Sign Panels

EXIT 8
Wahiawa
E-5

Install Rumble Strips (3 Sets) See Sht. No T-40 for Detail

4" White Guide Lines

Continue Markings

OUTBOUND LANES

Continue Markings

INBOUND LANES

Lane Drop Markings

M.L. STA. 68+00

M.L. STA. 79+00

70+00

SPEED LIMIT 55 R2-1(55)-A

Remove Exist. Sign & Posts and Install New Sign w/Posts

SPEED LIMIT 55 R2-1(55)-A
Install w/Posts

NORTH EXIT 8
Wahiawa
E-4

Install New Overlay w/Messages over Exist. Sign Panel

THRU TRAFFIC MERGE LEFT W9-3(L)

Remove Exist. Sign & Posts and Install New Sign w/Posts

DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

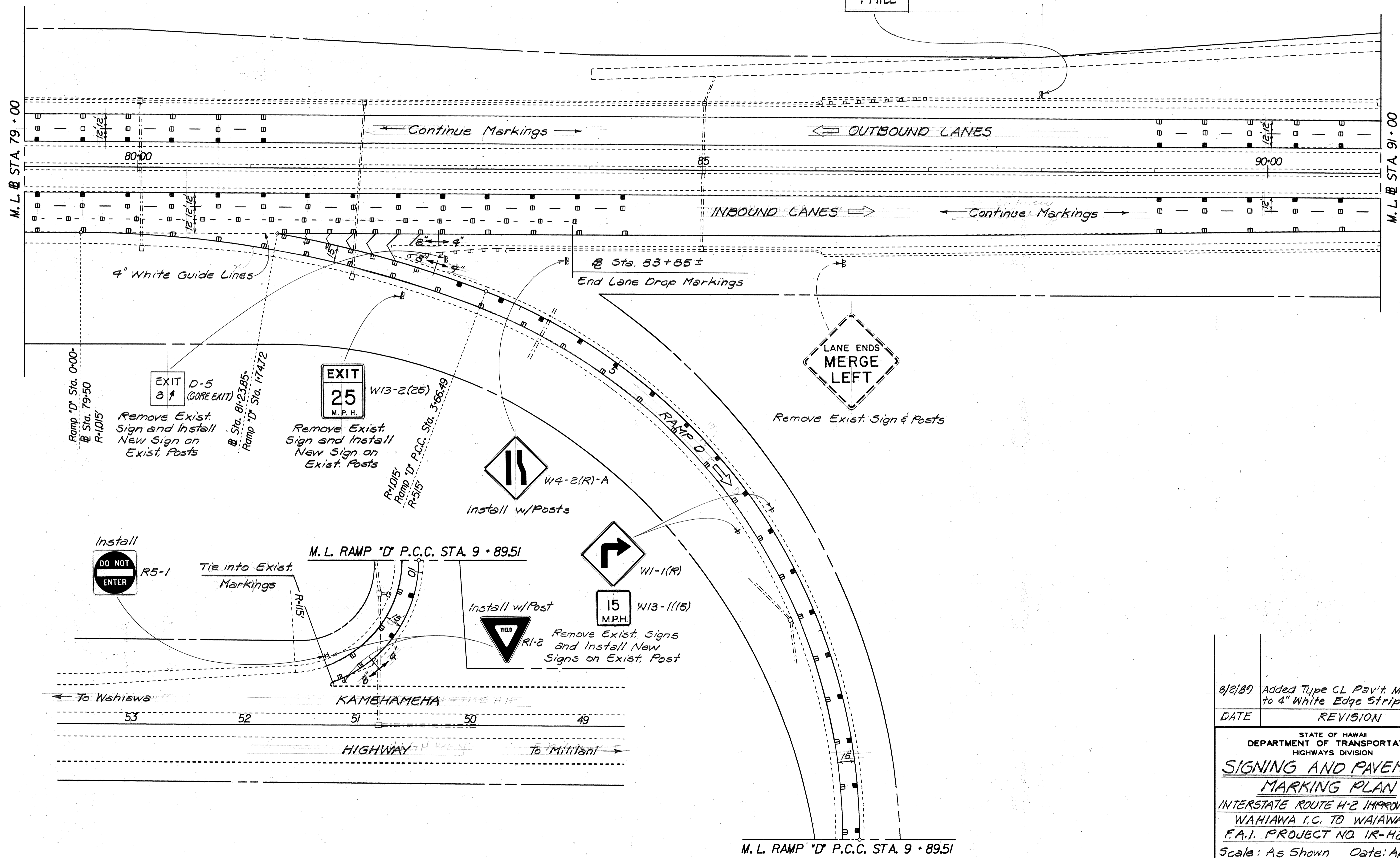
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAHIAWA I.C. TO WAIAWA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Scale: As Shown Date: Apr., 1989
SHEET No. 42 OF 45 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	43	81

Install New Panel on Exist Sign Posts
 TRUE NORTH
 SCALE: 1" = 40'

END FREEWAY (W) D-6
 1 MILE



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

8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SIGNING AND PAVEMENT MARKING PLAN INTERSTATE ROUTE H-2 IMPROVEMENTS WAHIAWA I.C. TO WAIAWA I.C. F.A.I. PROJECT NO. 1R-H2-1(24) Scale: As Shown Date: Apr., 1989 SHEET No. 77 OF 45 SHEETS	

DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes and Added Destination Signs D-37(L) & D-37(R) to Golf Course Separation Structure.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	44	81

True North
Scale: 1"=40'

SPEED LIMIT 55
R2-1(55)-A

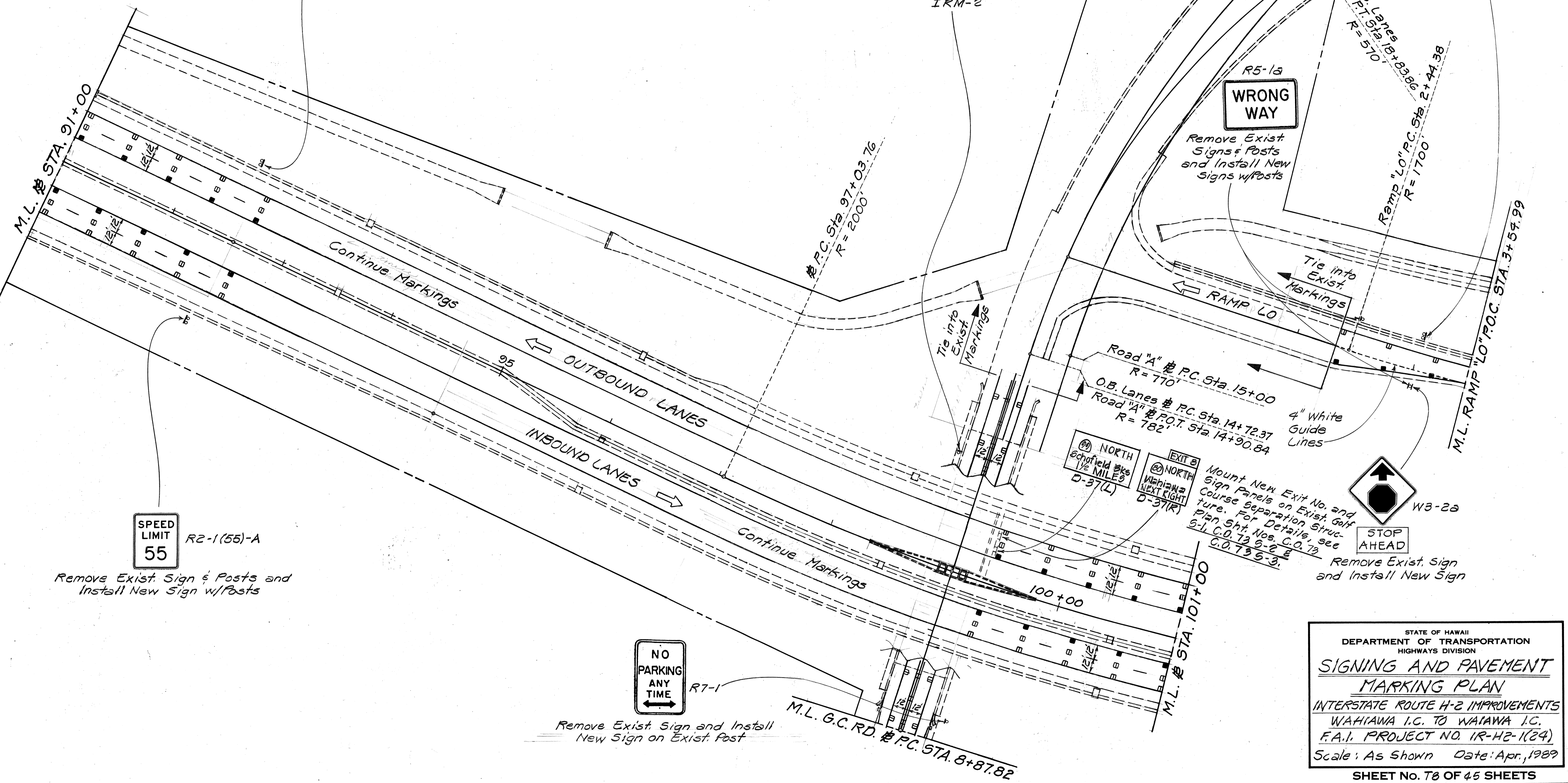
Remove Exist. Sign and Install New Sign on Exist. Posts

SOUTH INTERSTATE H-2 1M3-3
1M-1(2)
LEFT TURN 1M5-1(L)

Remove Exist. Signs and Install New Signs on Exist. Hwy. Lt. Std. (Type A Assembly) IRM-2

Wheeler AFB D-7

Install New Overlay w/Messages over Exist. Sign Panel

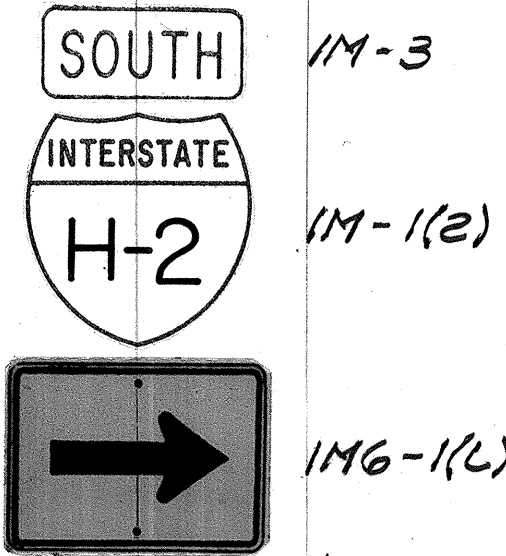


DATE	_____
SURVEY OBTAINED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAHIAWA I.C. TO WAIKAWA I.C.
F.A.I. PROJECT NO. IR-H2-1(24)
Scale: As Shown Date: Apr., 1989
SHEET NO. 78 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	45	81

True North
Scale: 1"=40'

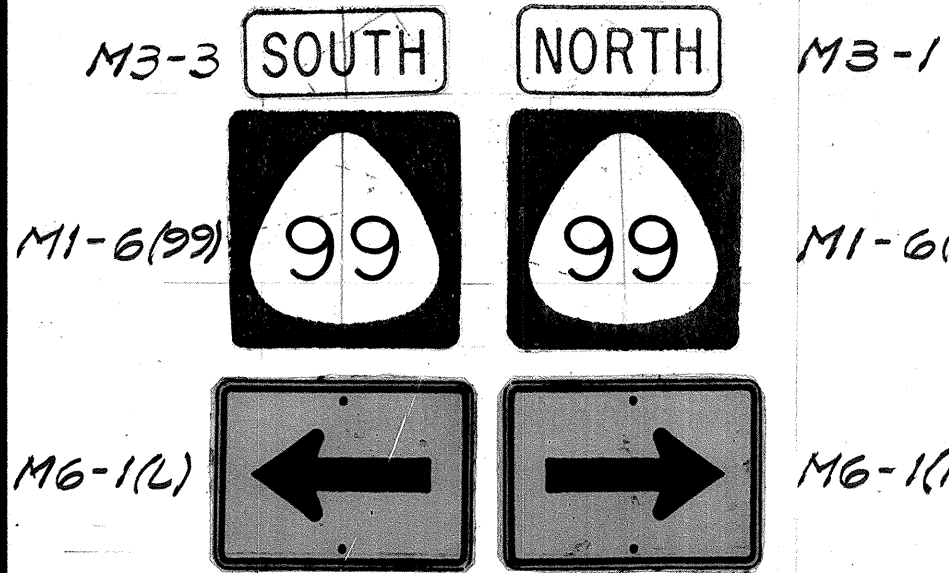


Remove Exist. Signs & Post and Install New Signs w/Post (Type A Assembly) IRM-3

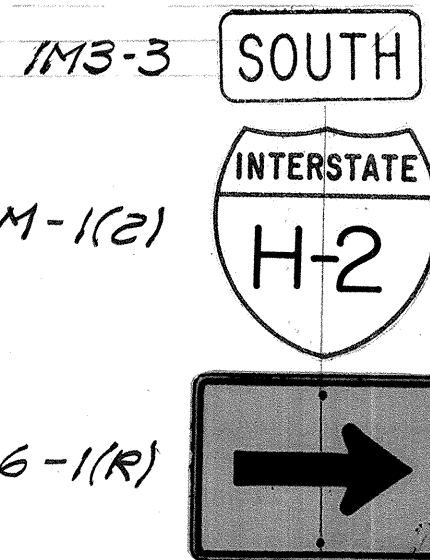


Remove Exist. Sign and Install on Exist. Post R7-1

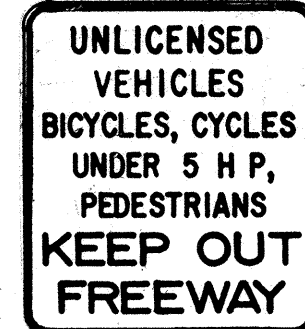
← Mikilani
Wheeler AFB →
D-8
Remove Exist. Sign Panel and Install New Panel on Exist. Sign Posts



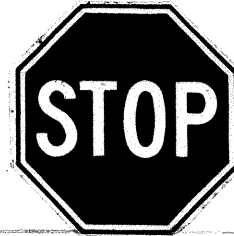
Install New Signs w/Post (Type B Assembly) SRM-1
Golf Course Rd P.T. Sta. 12+18.70 R=1250'



Remove Exist. Signs & Post and Install New Signs w/Post (Type A Assembly) IRM-4



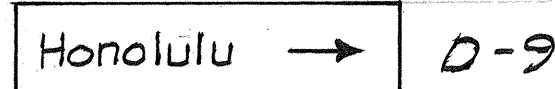
Remove Exist. Sign & Posts and Install New Sign w/Posts R16-5



Install New Sign w/Post R1-1



Install w/Posts CW20-1d



Remove Exist. Sign Panel and Install New Panel on Exist. Sign Posts

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
NO.	

DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

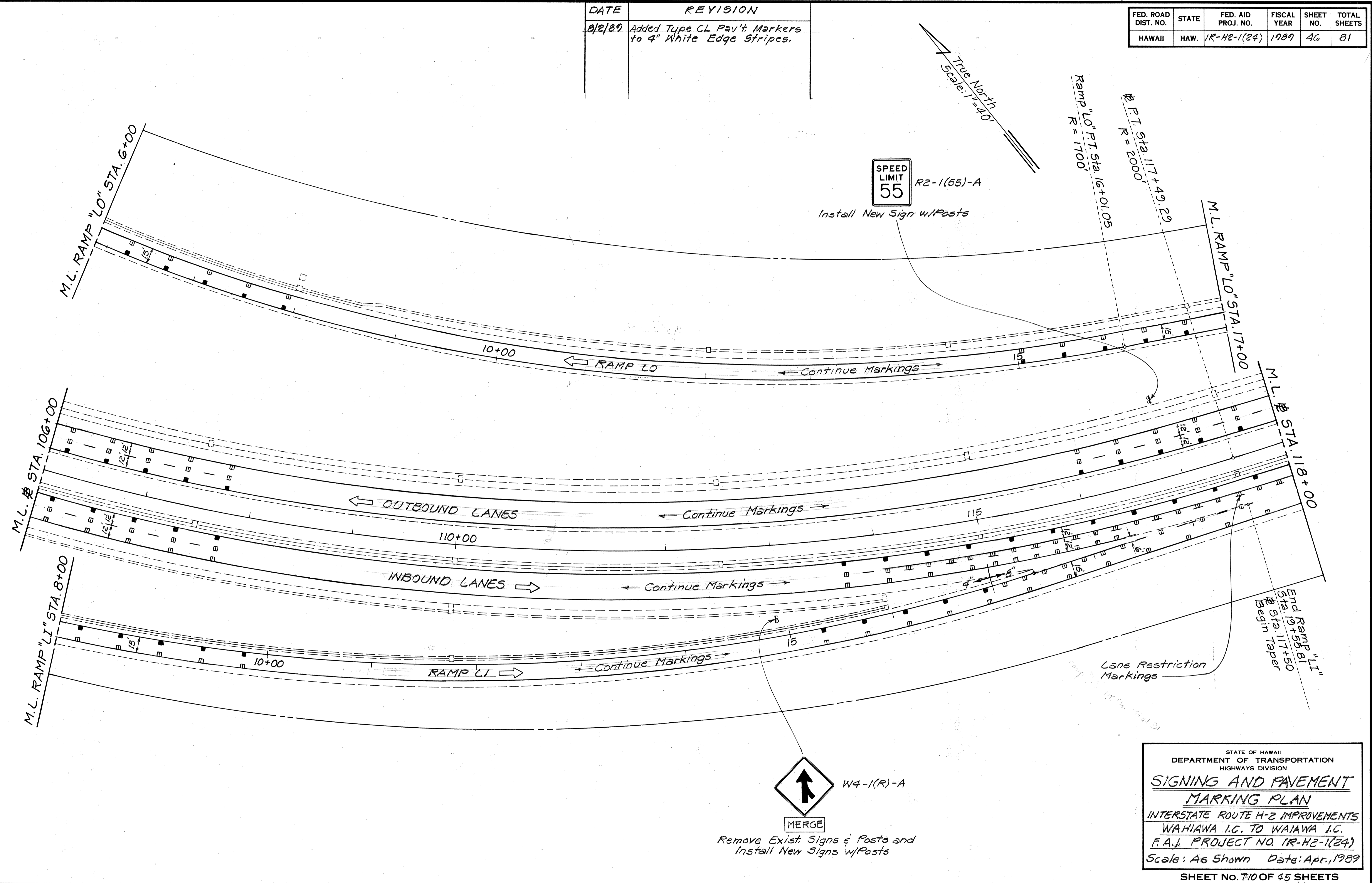
SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAI'AWA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Scale: As Shown Date: Apr., 1989

SHEET NO. 79 OF 45 SHEETS

DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	46	81

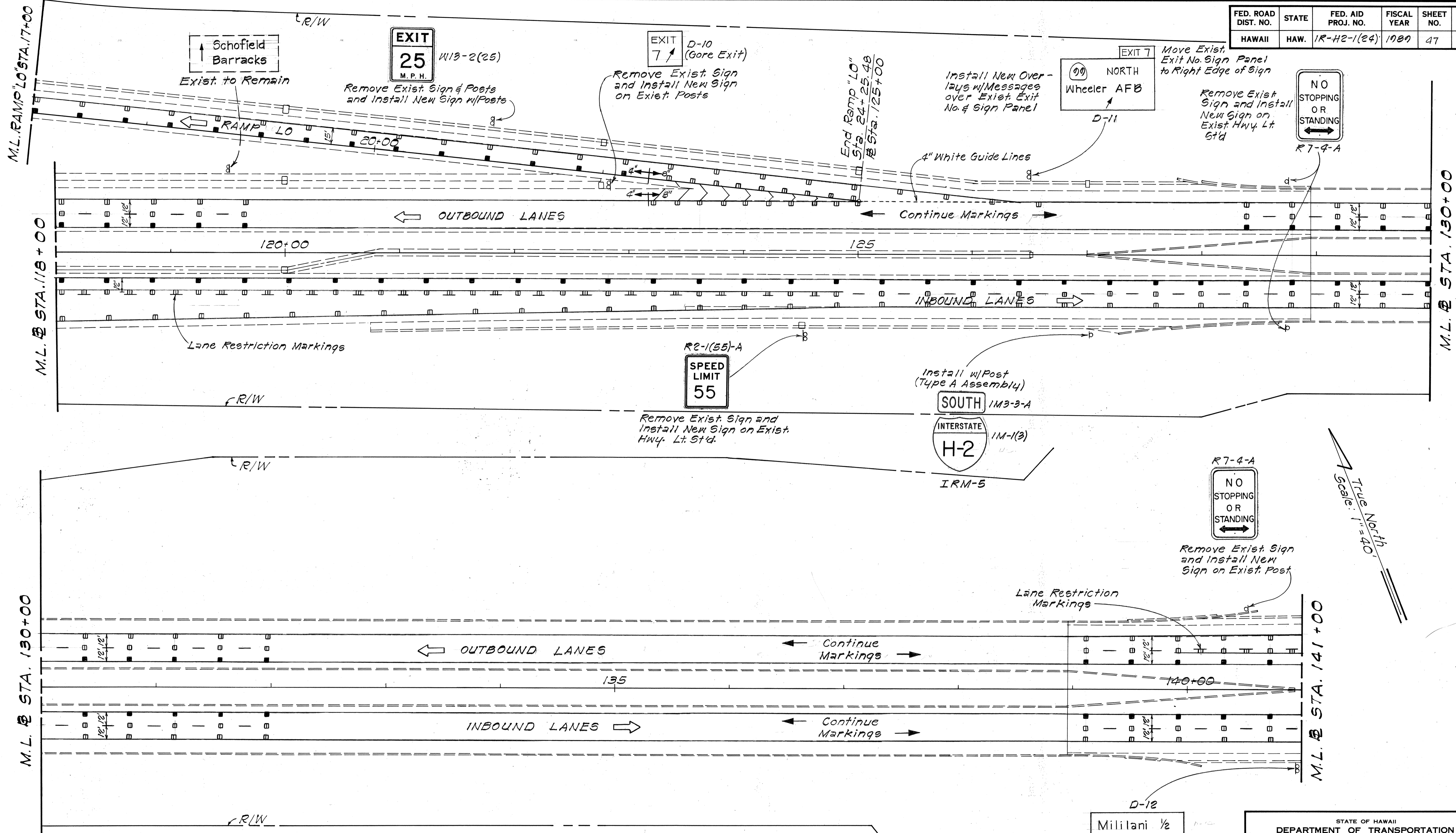


SURVEY PLOTTED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	

W4-1(R)-A
MERGE
 Remove Exist. Signs & Posts and
 Install New Signs w/Posts

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
 INTERSTATE ROUTE H-2 IMPROVEMENTS
 WAHIAWA I.C. TO WAIANA I.C.
 F.A.I. PROJECT NO. 1R-H2-1(24)
 Scale: As Shown Date: Apr., 1989
 SHEET No. 710 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	47	81



SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

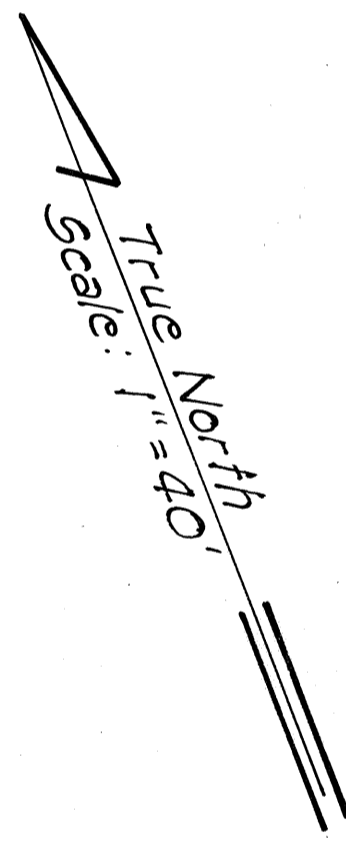
DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

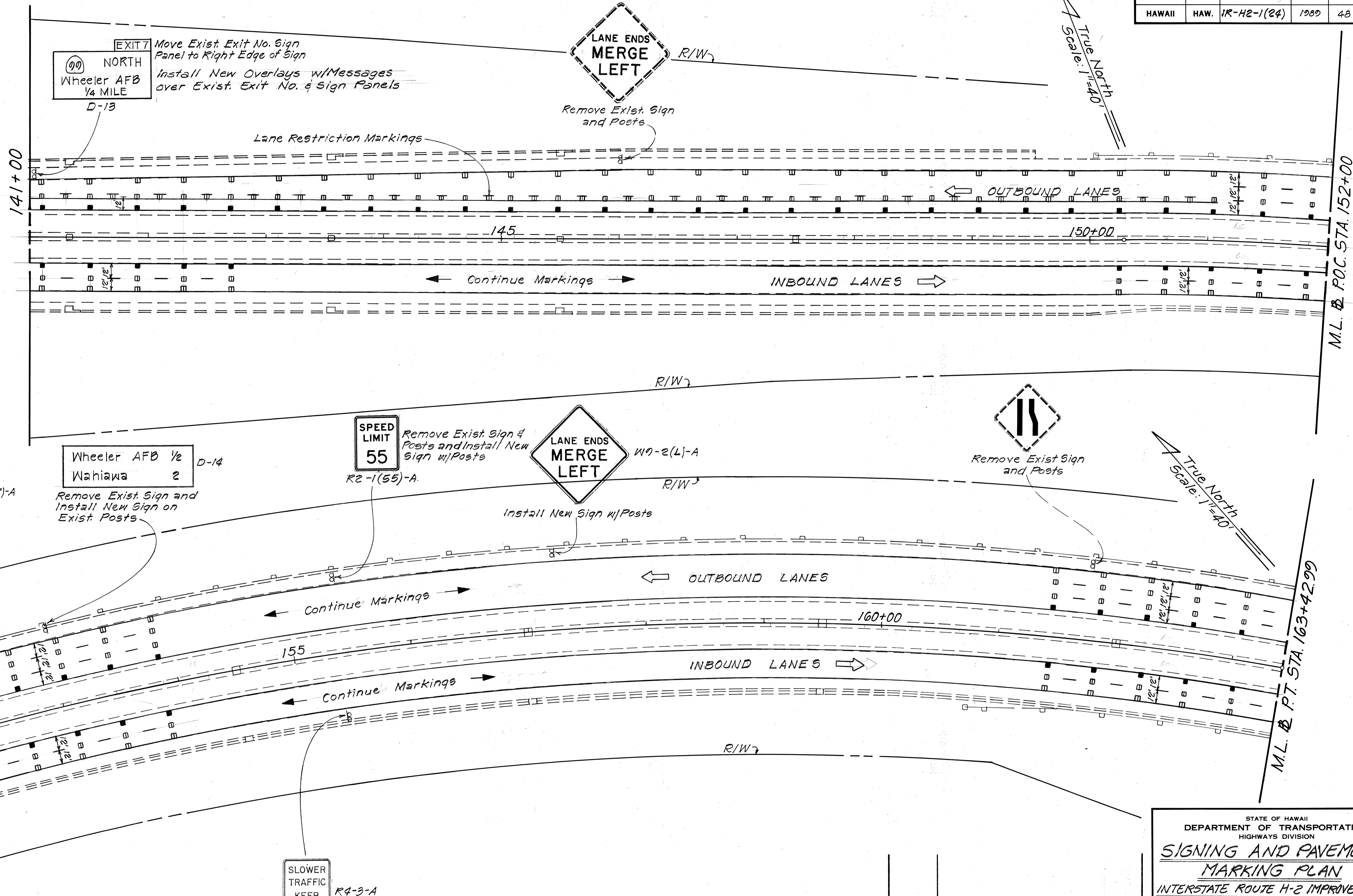
SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIKAWA I.C. TO WAIKAWA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Scale: As Shown Date: Apr., 1989

SHEET No. 7/11 OF 45 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	48	81



EXIT 7
 (99) NORTH
 Wheeler AFB
 1/4 MILE
 D-13
 Move Exist. Exit No. Sign Panel to Right Edge of Sign
 Install New Overlays w/ Messages over Exist. Exit No. & Sign Panels

Wheeler AFB 1/2
 Wahiawa 2
 D-14
 Remove Exist. Sign and Install New Sign on Exist. Posts

SPEED LIMIT 55
 R2-1(55)-A
 Remove Exist. Sign & Posts and Install New Sign w/ Posts

SLOWER TRAFFIC KEEP RIGHT
 R4-3-A
 Remove Exist. Sign & Posts and Install New Sign w/ Posts

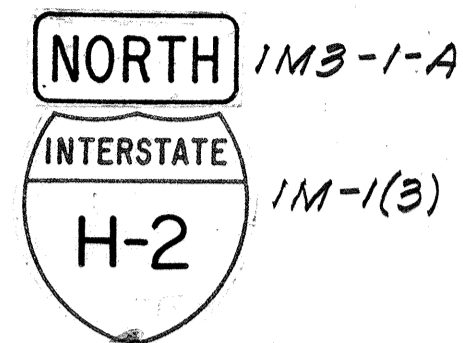
DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
 INTERSTATE ROUTE H-2 IMPROVEMENTS
 WAHIAWA I.C. TO WAIANA I.C.
 F.A.I. PROJECT NO. 1R-H2-1(24)
 Scale: As Shown Date: Apr., 1989
 SHEET NO. 712 OF 45 SHEETS

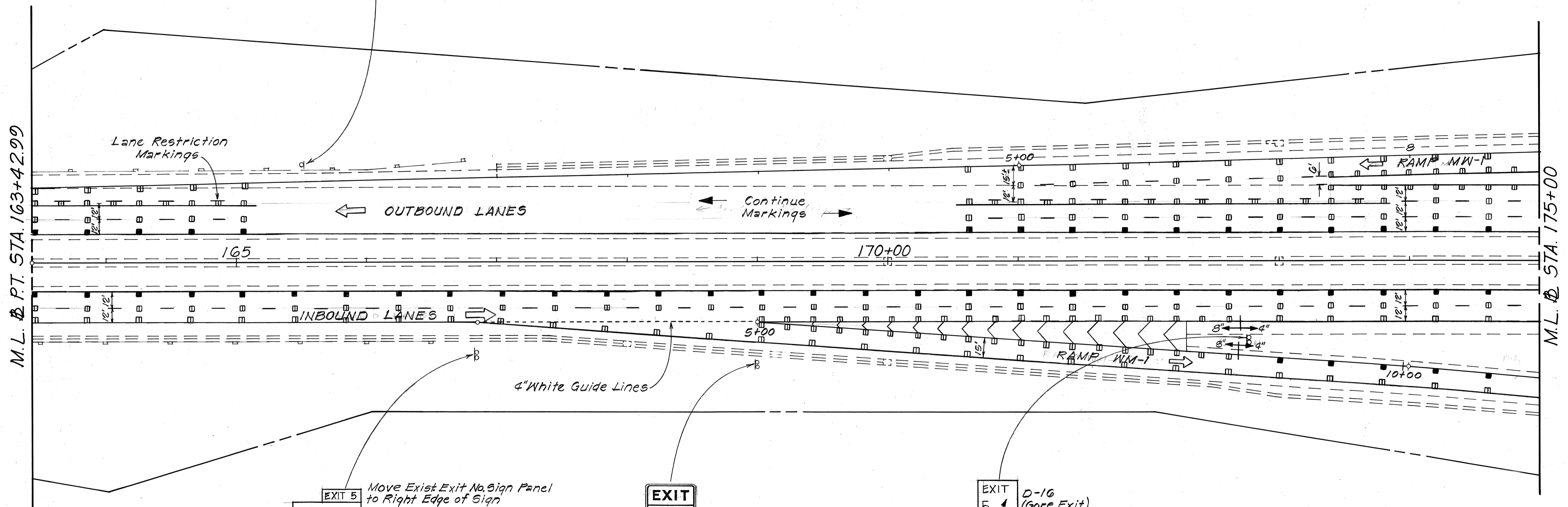
ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	49	81

True North
Scale: 1"=40'



Install New Markers w/Post (Type A Assembly) 1KM-0



EXIT 5
Millilani
D-15
Move Exist Exit No. Sign Panel to Right Edge of Sign
Install New Overlays w/ Messages over Exist No. 4 Sign Panels

EXIT 25
M.P.H.
W13-2(25)
Remove Exist Sign & Posts and Install New Sign w/ Posts

EXIT 5
D-16 (Gore Exit)
Remove Exist Sign and Install New Sign on Exist Posts

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

DATE	REVISION
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

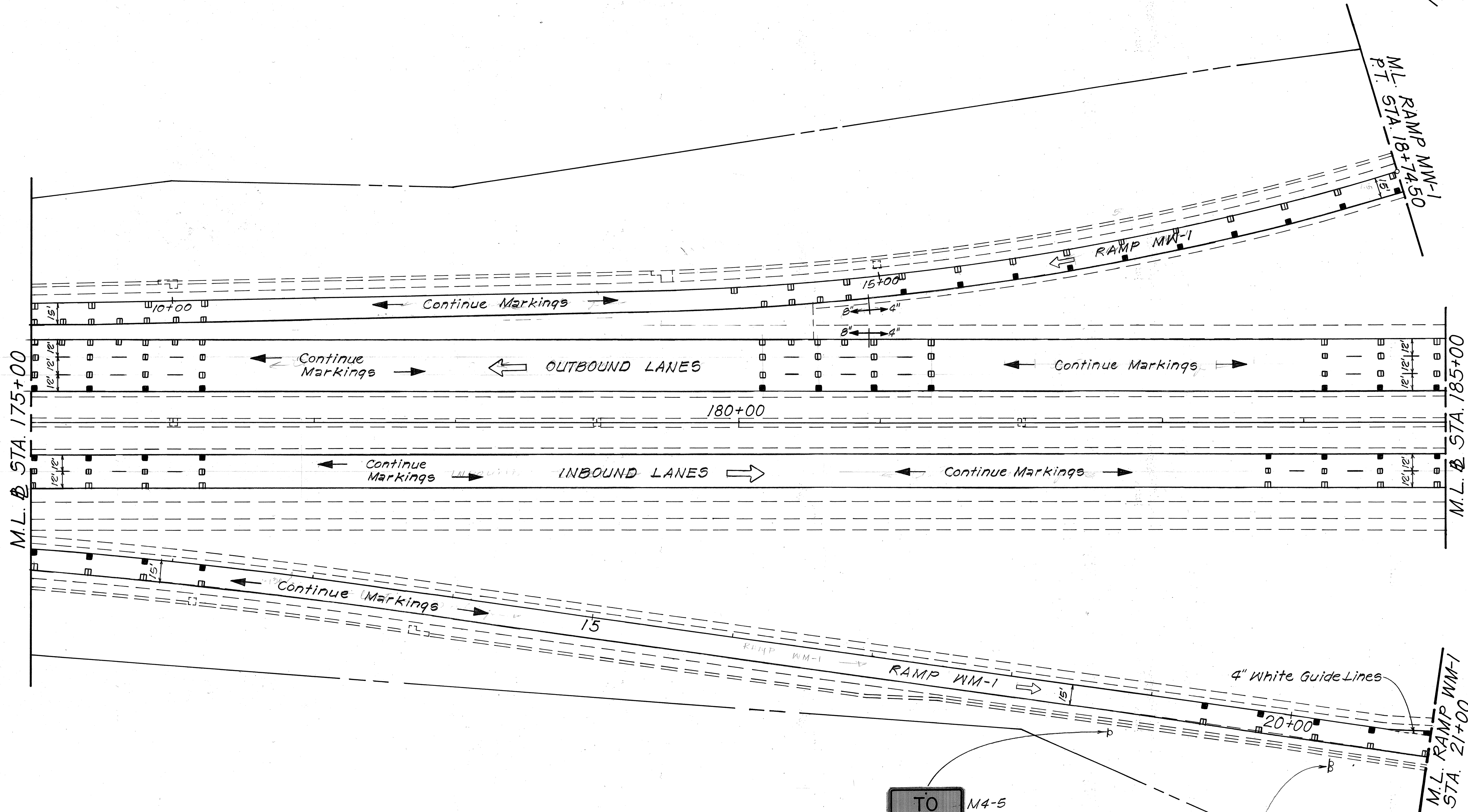
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAIANA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Scale: As Shown Date: Apr, 1989

SHEET No. 7/3 OF 45 SHEETS

DATE	REVISION
8/2/80	Added Type CL Pav't Markers to 4" White Edge Stripes.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	50	81

True North
Scale: 1"=40'



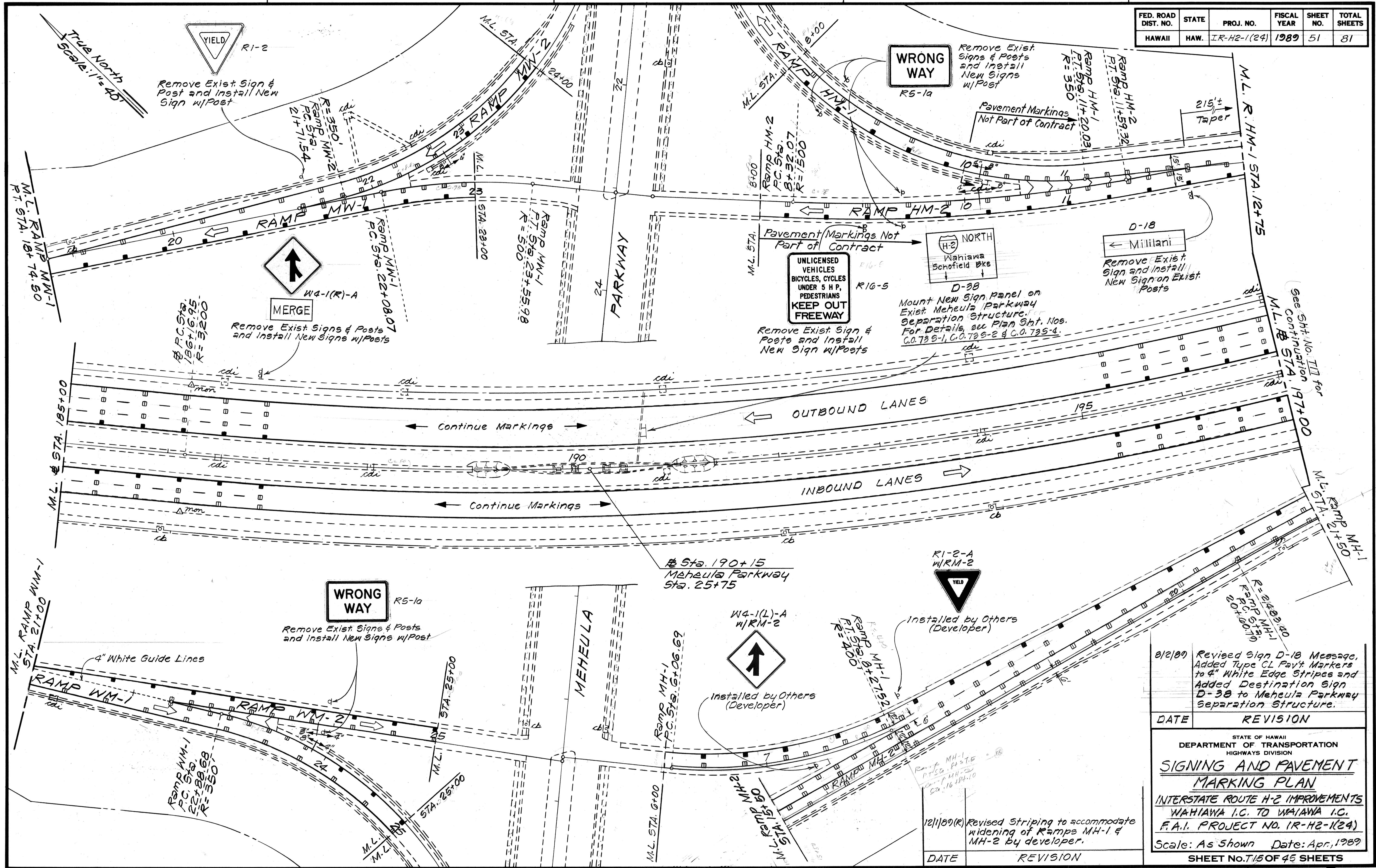
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

TO M4-5
99 MI-G(99)
MG-2(R)
Remove Exist Signs & Post and Install New Signs w/Post (Type A Assembly) SRM-2

Militani D-17
Remove Exist Sign and Install New Sign on Exist Posts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAIANA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Scale: As Shown Date: Apr, 1989
SHEET NO. T14 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	51	81



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

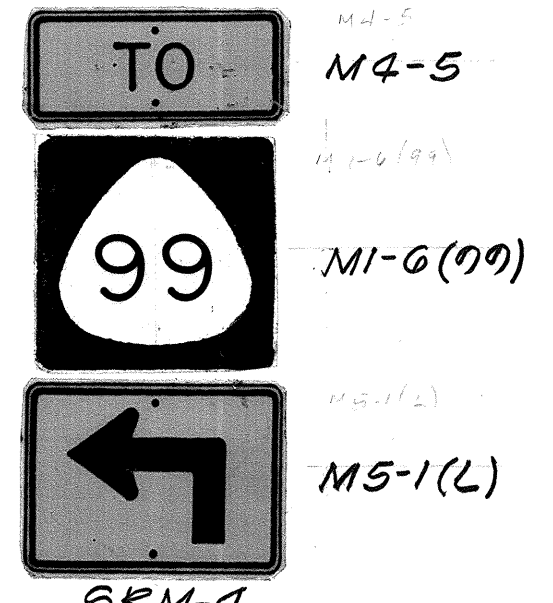
DATE	REVISION
8/2/89	Revised Sign D-18 Message, Added Type CL Pav't Markers to 4" White Edge Stripes and Added Destination Sign D-38 to Meheula Parkway Separation Structure.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SIGNING AND PAVEMENT MARKING PLAN	
INTERSTATE ROUTE H-2 IMPROVEMENTS WAHIAWA I.C. TO WAHIAWA I.C. F.A.I. PROJECT NO. IR-H2-1(24)	
Scale: As Shown Date: Apr, 1989 SHEET No. 51 OF 45 SHEETS	

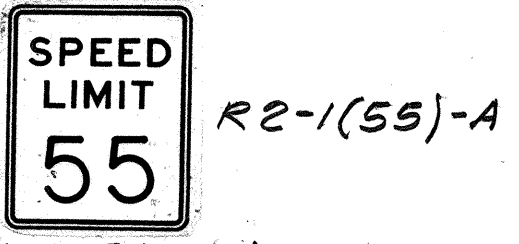
DATE	REVISION
12/1/89(R)	Revised Striping to accommodate widening of Ramps MH-1 & MH-2 by developer.

C.O. 51 R

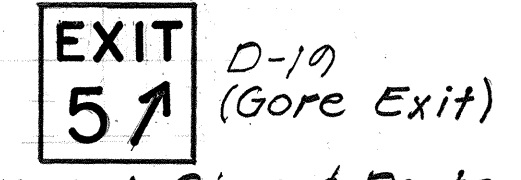
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	53	81



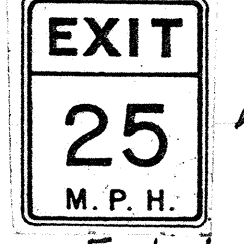
Remove Exist. Signs & Post and Install New Signs w/Post (Type A Assembly)



Remove Exist. Sign & Posts and Install New Sign w/Posts (Use 4.00 lbs./ft. Flanged Channel, 3-Post Installation)

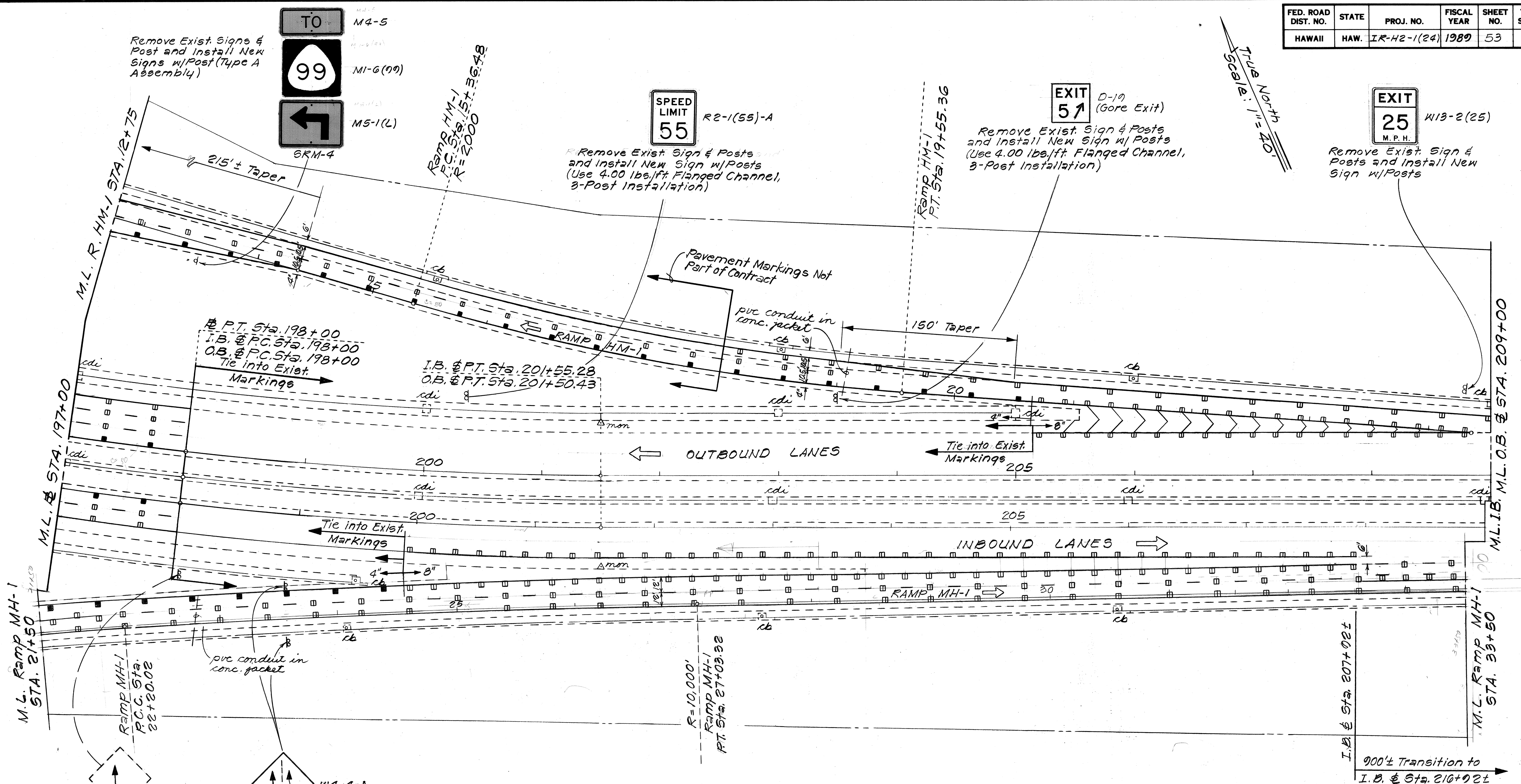


Remove Exist. Sign & Posts and Install New Sign w/ Posts (Use 4.00 lbs./ft. Flanged Channel, 3-Post Installation)



Remove Exist. Sign & Posts and Install New Sign w/Posts

True North
Scale: 1" = 20'



SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

Remove Exist. Sign & Posts

Ramp MH-1 Sta. 23+50±
Lt & Rt.
Install w/Posts
For Sign Details, see
Plan Sht. No. T41

DATE	REVISION
12/1/80 (R)	Revised Striping to accommodate widening of Ramps MH-1 & MH-2 by developer.
8/2/80	Added Type CL Pav't. Markers to 4" White Edge Stripes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAHIAWA I.C. TO WAIANA I.C.
F.A.I. PROJECT NO. IR-H2-1(24)

Scale: As Shown Date: Apr., 1989

SHEET NO. 717 OF 45 SHEETS

C.O. 53R

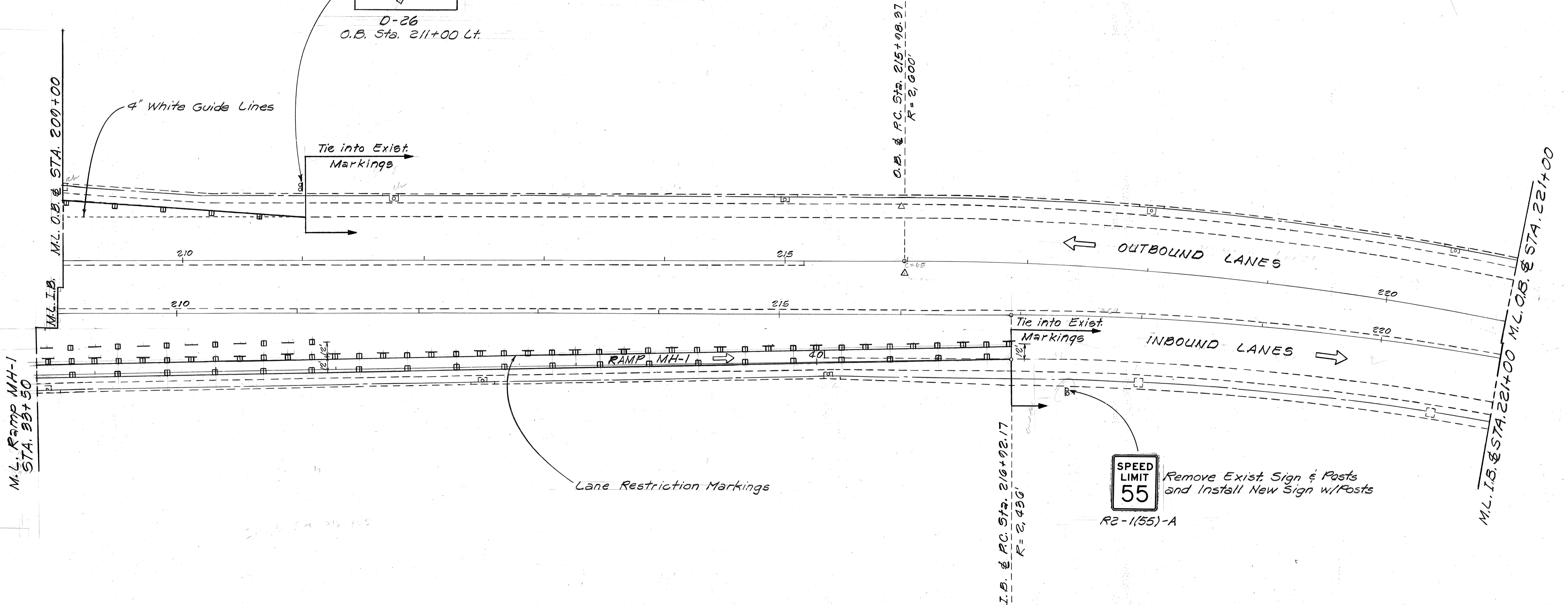
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	54	81

TRUE NORTH
Scale: 1" = 40'

EXIT 5
Mililani

Move Exist. Exit No. Sign Panel to Rt. Edge of Sign. Install New Overlays w/ Messages over Exist. Exit No. & Sign Panel.

D-26
O.B. Sta. 211+00 Lt.



DATE	DESCRIPTION

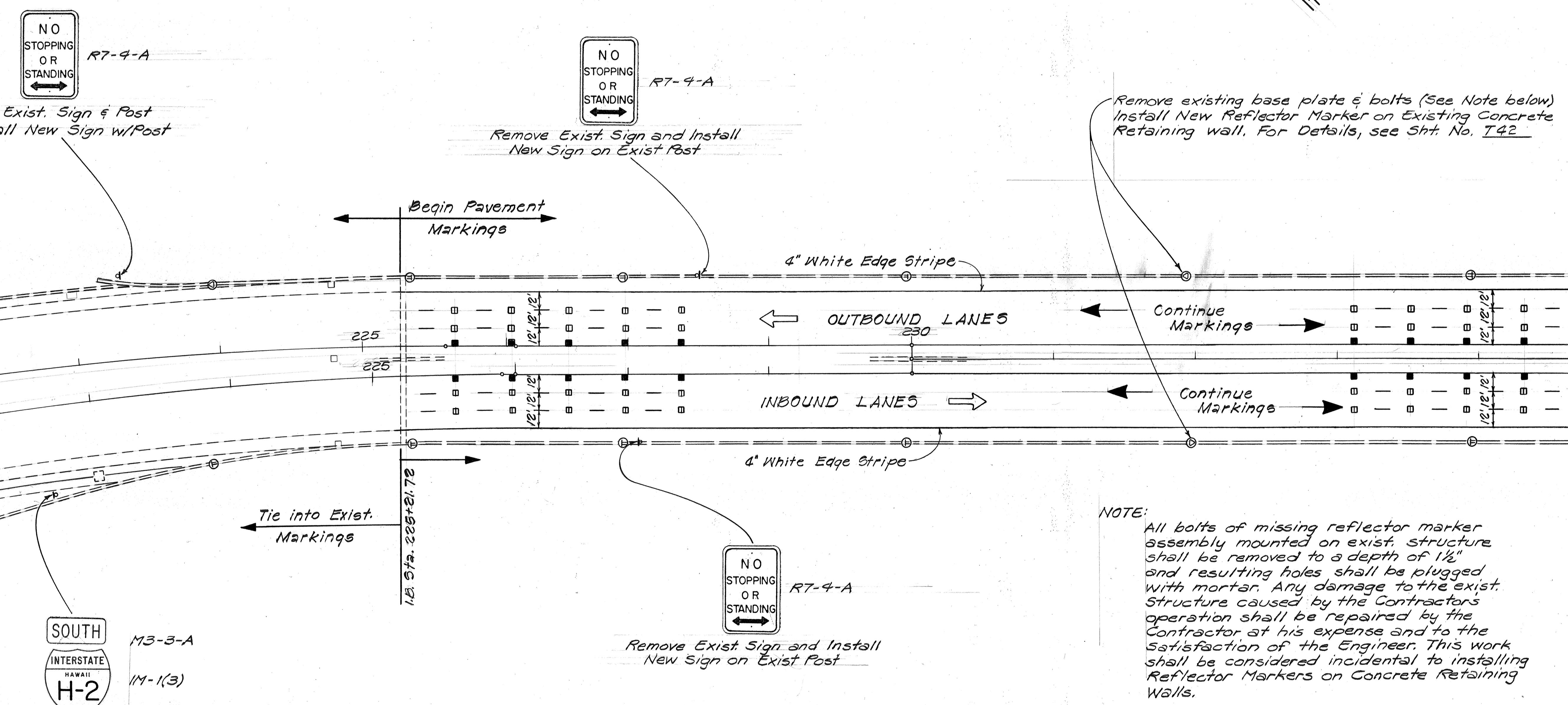
DATE	REVISION
12/1/89(R)	Revised Striping to accommodate widening of Ramps MH-1 & MH-2 by developer.
8/2/89	Added Type CL Pav't Markers to 4" White Edge Stripes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAIANA I.C.
F.A.I. PROJECT NO. IR-H2-1(24)
Scale: As Shown Date: Apr, 1989
SHEET NO. 18 OF 45 SHEETS

C.O. 54R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-42-1(24)	1989	55	81

TRUE NORTH
Scale: 1"=40'



NO STOPPING OR STANDING R7-4-A
Remove Exist. Sign & Post and Install New Sign w/Post

NO STOPPING OR STANDING R7-4-A
Remove Exist. Sign and Install New Sign on Exist Post

Remove existing base plate & bolts (See Note below) Install New Reflector Marker on Existing Concrete Retaining wall. For Details, see Sht. No. T42

SOUTH INTERSTATE HAWAII H-2 M3-3-A (11-1(3))
Remove Exist. Post and Install New Sign w/Post IRM-11

NO STOPPING OR STANDING R7-4-A
Remove Exist. Sign and Install New Sign on Exist Post

NOTE:
All bolts of missing reflector marker assembly mounted on exist. structure shall be removed to a depth of 1 1/2" and resulting holes shall be plugged with mortar. Any damage to the exist. structure caused by the Contractor's operation shall be repaired by the Contractor at his expense and to the satisfaction of the Engineer. This work shall be considered incidental to installing Reflector Markers on Concrete Retaining Walls.

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

DATE	REVISION
8/17/89	Added Pavement Markings on Kipapa Stream Bridge.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAIHAWA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Scale: As Shown Date: Apr., 1989

SHEET No. 719 OF 43 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(29)	1989	56	81

Move Exist. Exit No. Panel to Rt. Edge of Sign and Install New Overlays w/ Messages over Exist. Exit No. Panels.

EXIT 5
Mililani
1/2 MILE

Tie into Exist. Markings @ Sta. 247+00 Lt

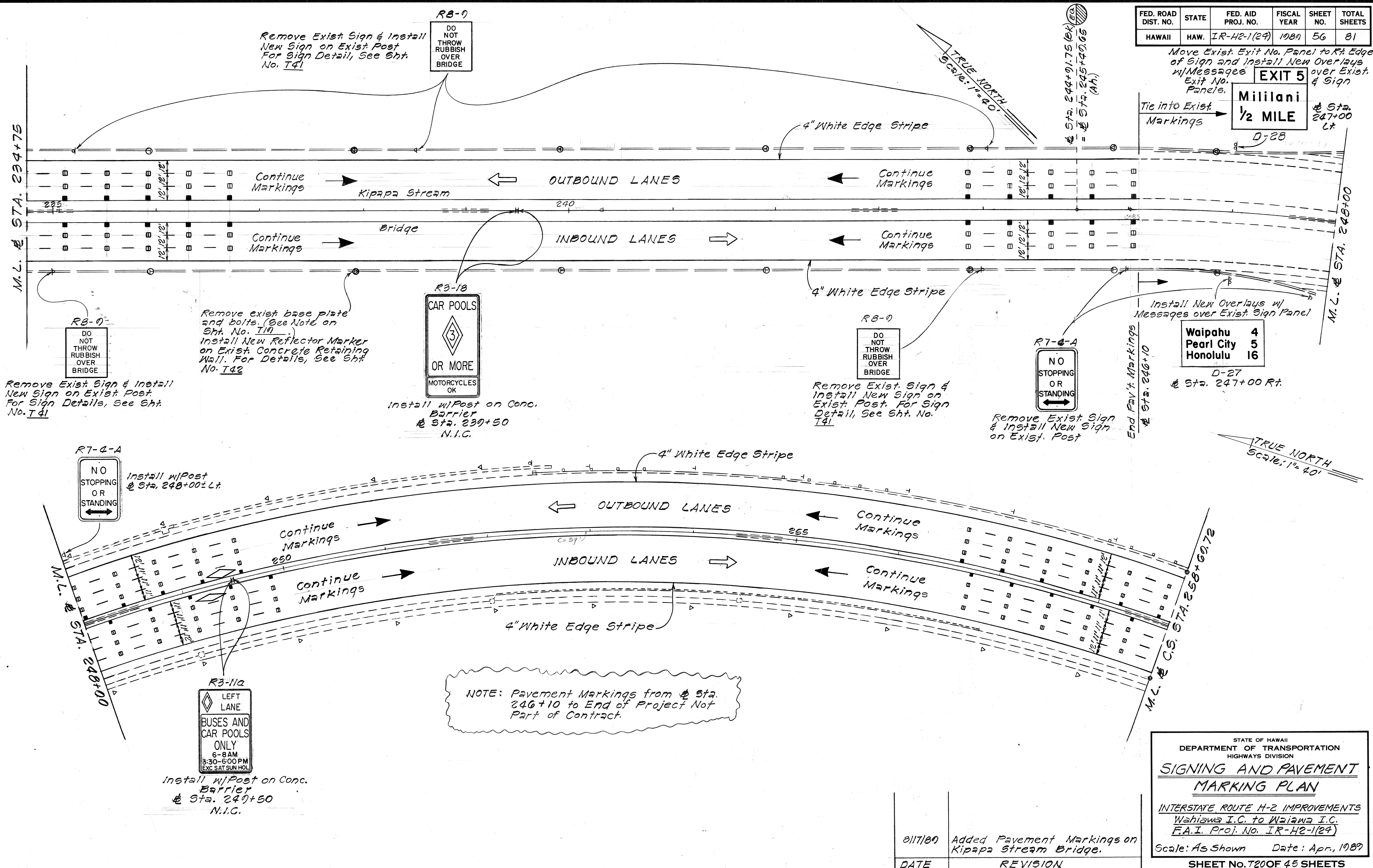
Install New Overlays w/ Messages over Exist. Sign Panel

Waipahu 4
Pearl City 5
Honolulu 16

D-27
@ Sta. 247+00 Rt.

End Pav't. Markings @ Sta. 246+10

TRUE NORTH
Scale: 1" = 40'



NOTE: Pavement Markings from @ Sta. 246+10 to End of Project Not Part of Contract.

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
TRACED BY: _____
DESIGNED BY: _____
CHECKED BY: _____

DATE	REVISION
8/17/89	Added Pavement Markings on Kipapa Stream Bridge.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
Waiawa I.C. to Waiana I.C.
F.A.I. Proj. No. IR-H2-1(29)

Scale: As Shown Date: Apr., 1989

SHEET No. 7200F of 45 SHEETS

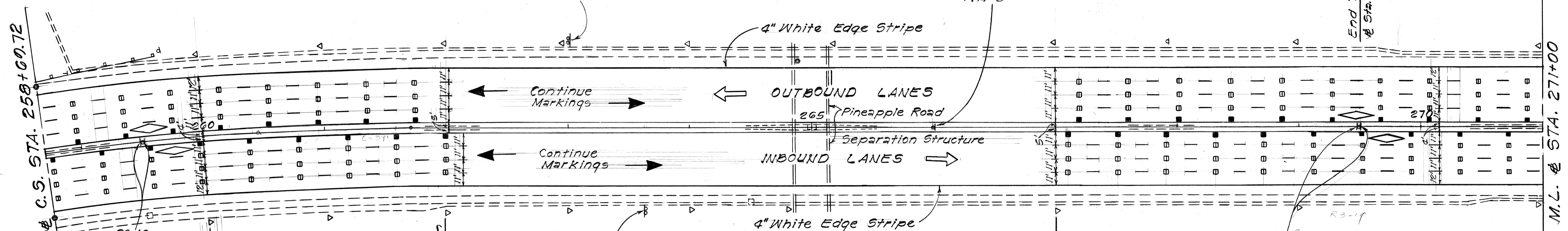
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1 (29)	1989	57	81

Move Exist. Exit No. Sign Panel to Right Edge of Sign
 Install New Overlays w/ Messages over Exist. Exit No. and Sign Panels

EXIT 5
Mililani
1 MILE
 D-29
 Sta. 263+00 LT.

N.I.C.
EXPRESS LANE
 LIMITED SIGHT DISTANCE
 W14-5
 Install on Exist. Post
 Sta. 260+00 O.B.

TRUE NORTH
 Scale: 1" = 40'



R3-18
CAR POOLS
 OR MORE
 MOTORCYCLES OK

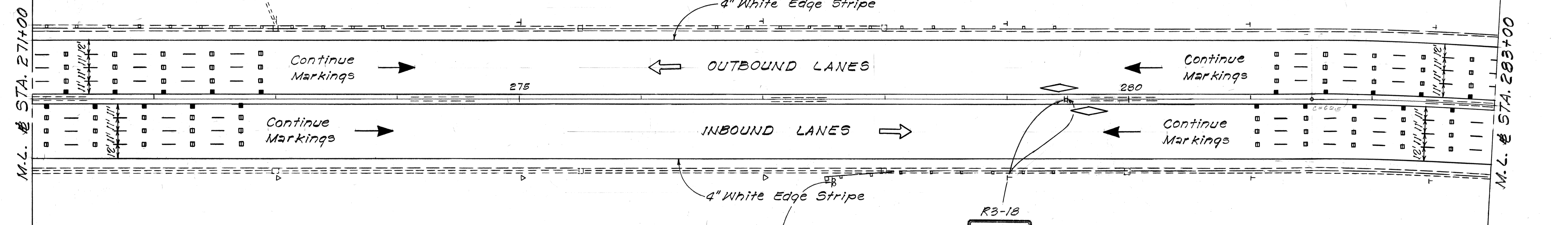
R4-3-A
SLOWER TRAFFIC KEEP RIGHT
 Remove Exist. Sign & Posts and Install New Sign w/ Posts

R3-19
EXPRESS LANE
 6-8 AM
 3:30-6:00 PM
 EXCEPT SAT SUN & HOL
 N.I.C.
 Install w/ Post on Conc. Barrier
 Sta. 269+50

TRUE NORTH
 Scale: 1" = 40'

NOTE: Pavement Markings Not Part of Contract

Install w/ Post on Conc. Barrier
 Sta. 250+50
 N.I.C.



EXIT 2
Waipio
1 MILE
 To be installed by Others

R3-18
CAR POOLS
 OR MORE
 MOTORCYCLES OK
 Install w/ Post on Conc. Barrier
 Sta. 279+50
 N.I.C.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

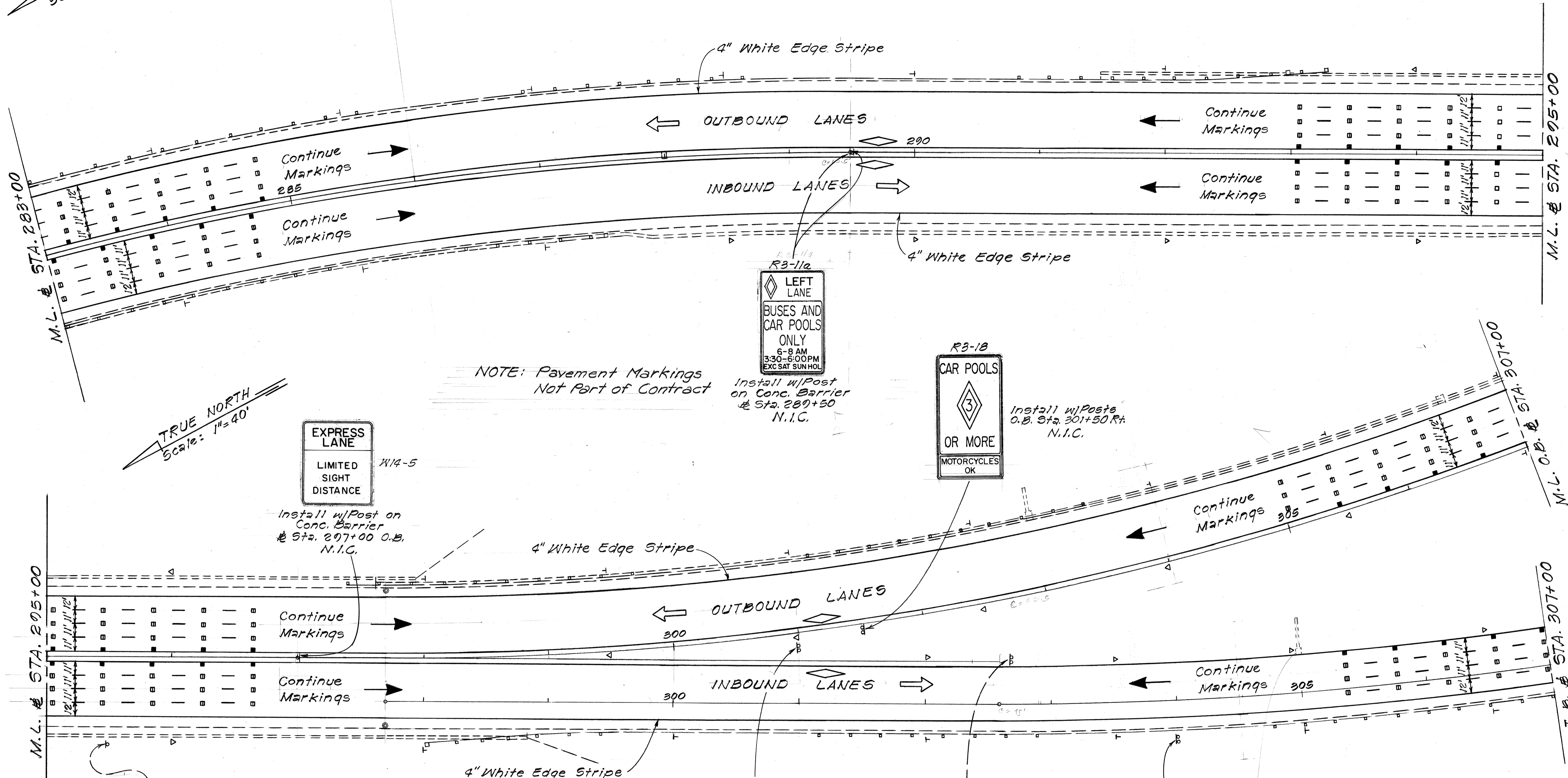
INTERSTATE ROUTE H-2 IMPROVEMENTS
 Waiawa I.C. to Waipio I.C.
 F.A.I. Proj. No. IR-H2-1(29)

Scale: As Shown Date: Apr., 1989
 SHEET No. 721 OF 45 SHEETS

DATE _____
 SURVEY PLOTTED BY _____
 DRAWN BY _____
 DESIGNED BY _____
 QUANTITIES 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.	IR-H2-1 (29)	1989	58	81

TRUE NORTH
Scale: 1"=40'



NOTE: Pavement Markings
Not Part of Contract

R3-11a
LEFT LANE
BUSES AND
CAR POOLS
ONLY
6-8 AM
3:30-6:00 PM
EXC SAT SUN HOL
Install w/Post
on Conc. Barrier
@ Sta. 297+50
N.I.C.

R3-18
CAR POOLS
OR MORE
MOTORCYCLES
OK
Install w/Posts
O.B. Sta. 301+50 Rt.
N.I.C.

EXPRESS LANE
LIMITED
SIGHT
DISTANCE
W14-5
Install w/Post on
Conc. Barrier
@ Sta. 297+00 O.B.
N.I.C.

1/4 MILE
EMERGENCY
ONLY
Exist to Remain

R3-18
CAR POOLS
OR MORE
MOTORCYCLES
OK
Install w/Posts
I.B. Sta. 301+00 Lt.
N.I.C.

NO U
TURN
Exist to Remain

EXIT 2
Waipio
1/2 MILE
To be Installed by
Others

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SIGNING AND PAVEMENT
MARKING PLAN**
INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waiawa I.C.
F.A.I. Proj. No. IR-H2-1(29)
Scale: As Shown Date: Apr, 1989
SHEET No. 722 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	59	81

TRUE NORTH
Scale: 1" = 40'

SPEED LIMIT
55

To be installed by others

4" White Edge Stripe

Continue Markings

OUTBOUND LANES

Continue Markings

310

315

R3-18A (EXIST)

M.L. O.B. # STA. 307+00

M.L. O.B. # STA. 319+00

NOTE: Pavement Markings
Not Part of Contract

TRUE NORTH
Scale: 1" = 40'

R3-19
EXPRESS LANE
6-8 AM
3:30-6:00PM
EXCEPT SAT
SUN & HOL

Install w/Posts
O.B. Sta. 311+50 R+
N.I.C.

Continue Markings

310

INBOUND LANES

Continue Markings

315

4" White Edge Stripe

R3-19
EXPRESS LANE
6-8 AM
3:30-6:00PM
EXCEPT SAT
SUN & HOL

Install w/Posts
I.B. Sta. 311+00 Lt.
N.I.C.

M.L. I.B. # STA. 319+00

M.L. I.B. # STA. 307+00

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**SIGNING AND PAVEMENT
MARKING PLAN**

INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waiawa I.C.
F.A.I. Proj. No. IR-H2-1(24)

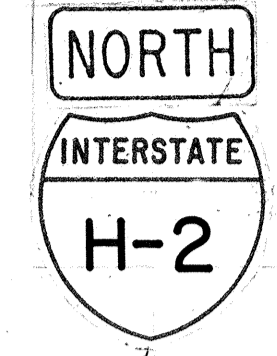
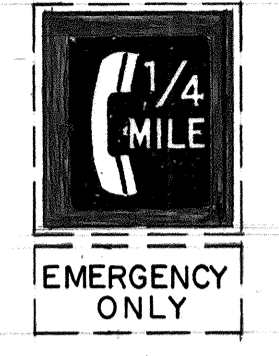
Scale: As Shown Date: Apr, 1989

SHEET No. 783 OF 45 SHEETS

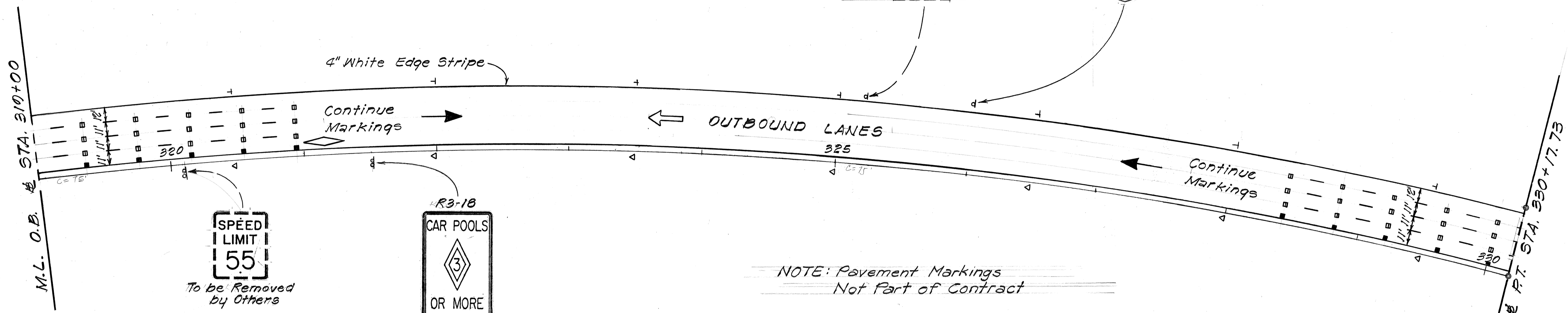
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1 (24)	1989	60	81

TRUE NORTH
Scale: 1" = 40'

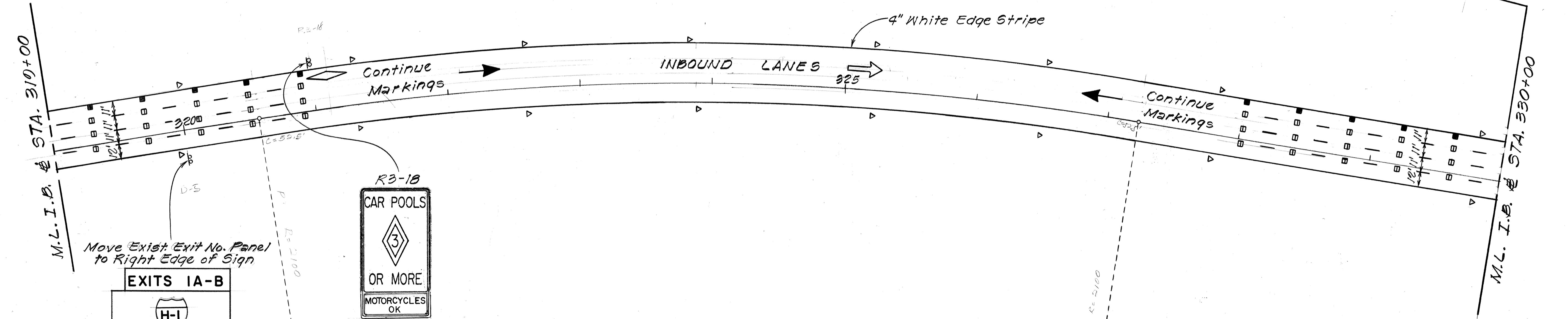
Exist to Remain



To be Installed by Others

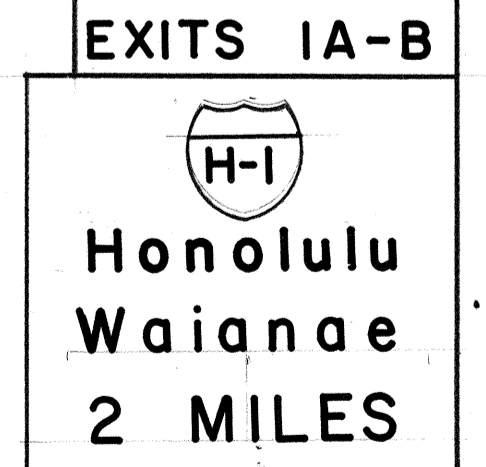


TRUE NORTH
Scale: 1" = 40'

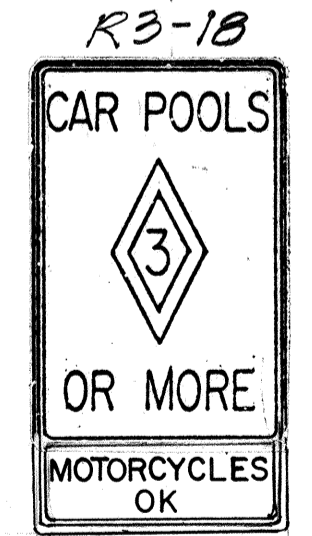


SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

Install New Overlays w/ Messages over Exist. Exit & Sign Panels.



D-30
I.B. Sta. 320+00 Rt.



Install w/ Posts
I.B. Sta. 321+00 Lt.
N.I.C.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

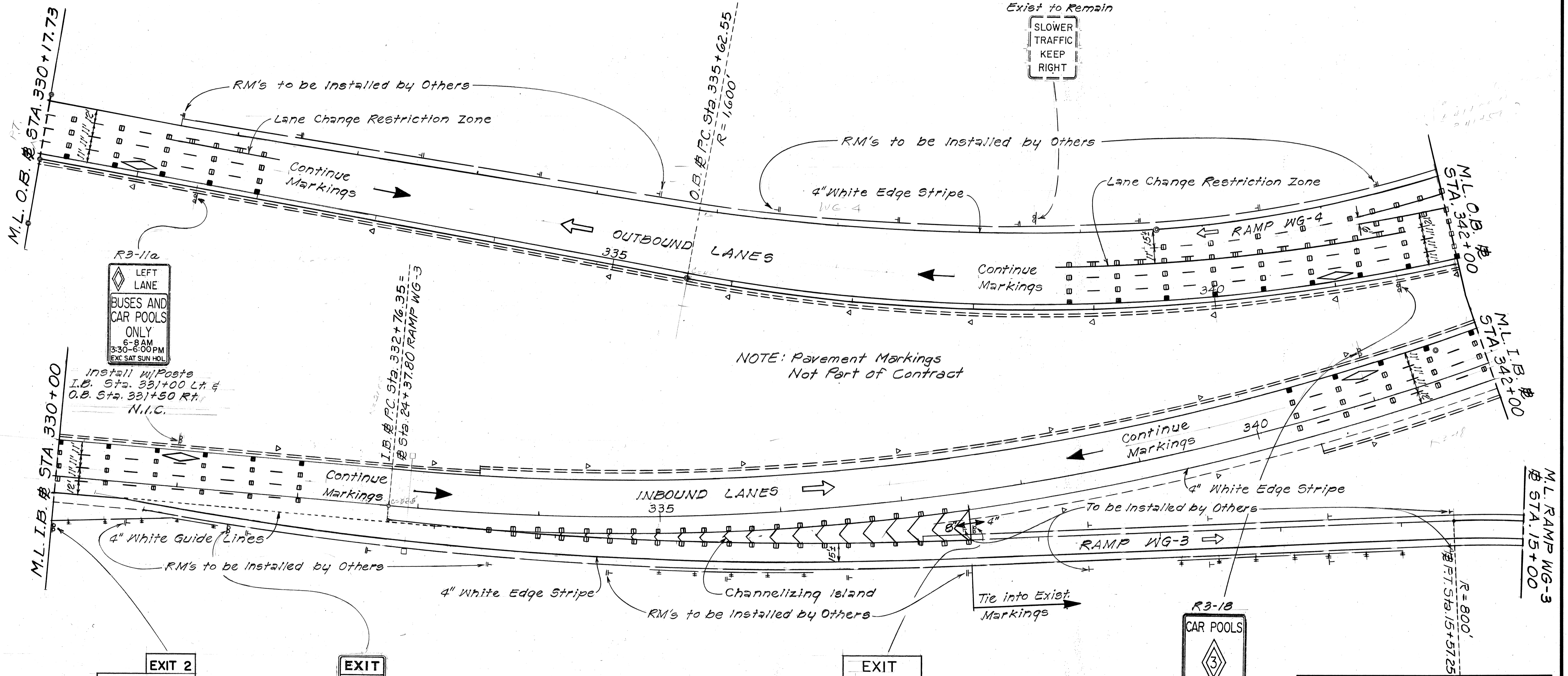
INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waianae I.C.
F.A.I. Proj. No. IR-H2-1 (24)

Scale: As Shown Date: Apr, 1989

SHEET No. 24 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	61	81

True North
Scale: 1"=40'



R3-11a
LEFT LANE
BUSES AND CAR POOLS ONLY
6-8 AM
3:30-6:00 PM
EXC SAT SUN HOL

Install w/Posts
I.B. Sta. 331+00 Lt. &
O.B. Sta. 331+50 Rt.
N.I.C.

NOTE: Pavement Markings
Not Part of Contract

EXIT 2
Waipio
To be installed by Others

EXIT 35
M.P.H.
To be installed by Others

EXIT 2
To be installed by Others

R3-18
CAR POOLS
OR MORE
MOTORCYCLES OK
Install w/Posts
I.B. Sta. 341+00 Lt.
& O.B. Sta. 341+50 Rt.
N.I.C.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

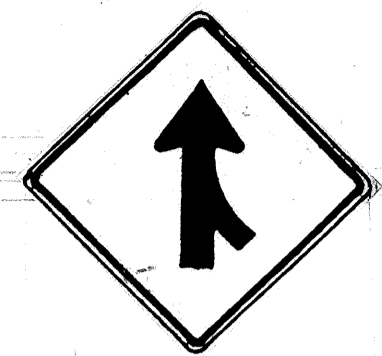
INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waiawa I.C.
F.A.I. Proj. No. IR-H2-1(24)

Scale: As Shown Date: Apr, 1989

SHEET No. 725 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	62	81

True North
Scale: 1"=40'



MERGE
To be installed by Others

W4-1(R)-A

RM's to be installed by Others

Tie into Exist. Markings

RAMP WG-4

Begin Transition
O.B. Sta. 346+00±

End Transition
O.B. Sta. 348+00±

4" White Edge Stripes

O.B. Sta. 350+02.07 =
O.B. Sta. 350+00

OUTBOUND LANES

Continue Markings

INBOUND LANES

Continue Markings

End Transition
I.B. Sta. 347+00±

R=2100'

Begin Transition
I.B. Sta. 345+00±

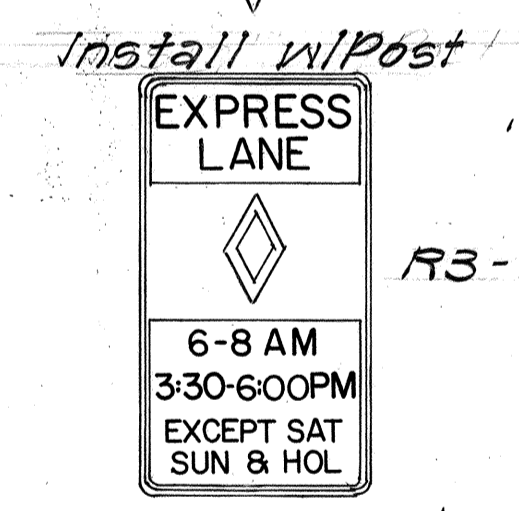


To be Removed by Others



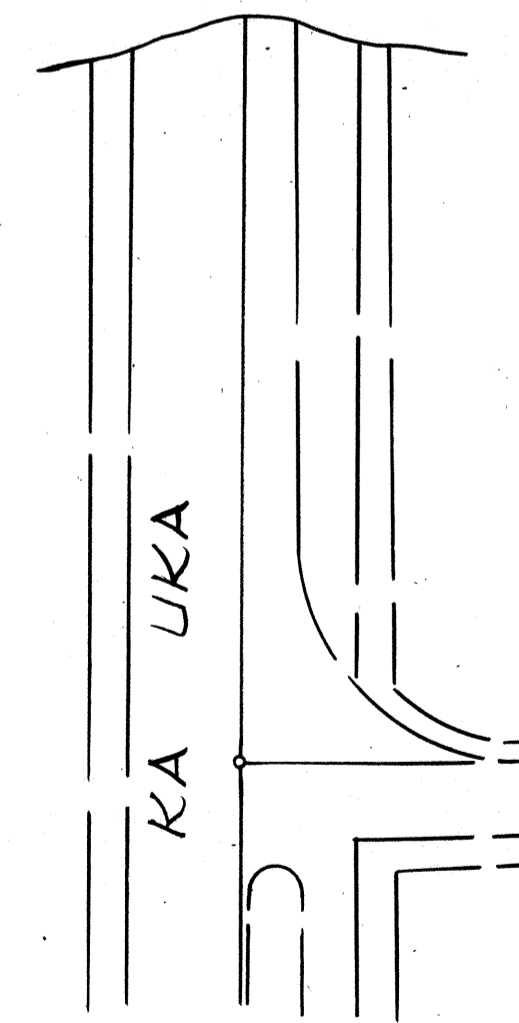
Remove Exist. Sign & Posts & Install New Sign w/Posts

R3-4-A



Install w/Post
on Conc. Barrier
O.B. Sta. 351+00
N.I.C.

NOTE: Pavement Markings
Not Part of Contract



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waialua I.C.
F.A.I. Proj. No. 1R-H2-1(24)

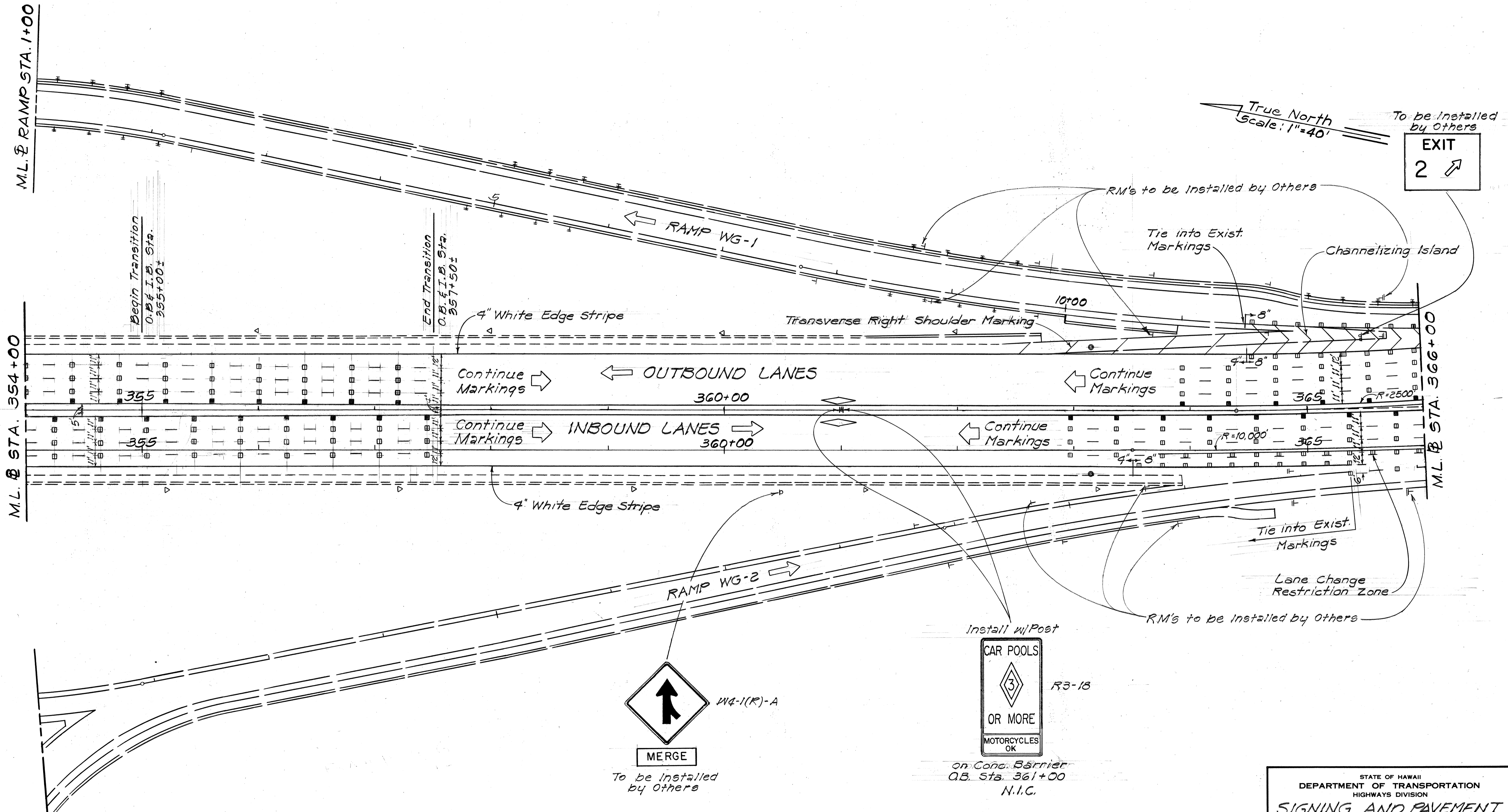
Scale: As Shown Date: Apr., 1989

SHEET No. 726 OF 45 SHEETS

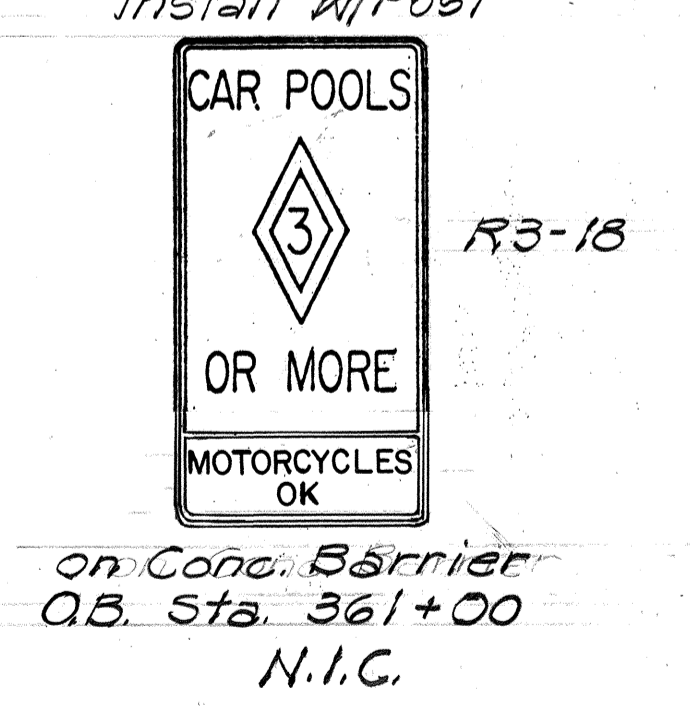
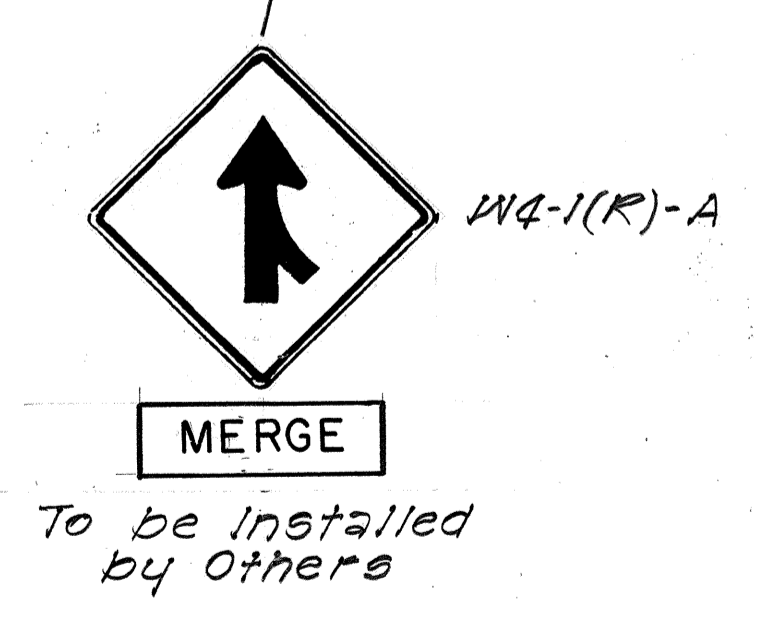
DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

R=800'
P.C. Sta. 12+01.97

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(29)	1989	63	81



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



NOTE: Pavement Markings
Not Part of Contract

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**SIGNING AND PAVEMENT
MARKING PLAN**

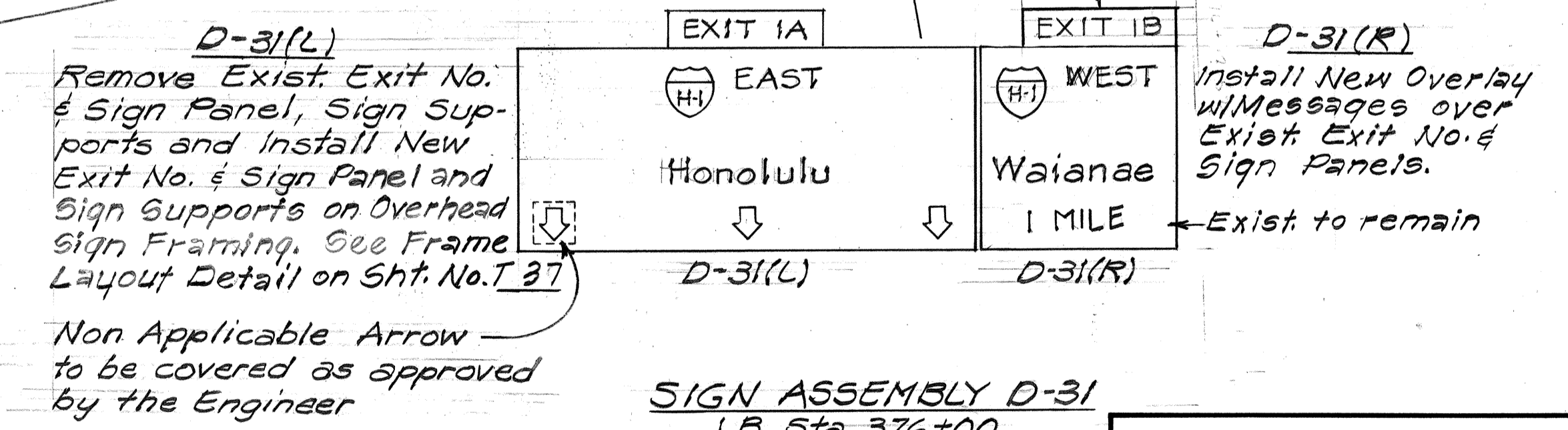
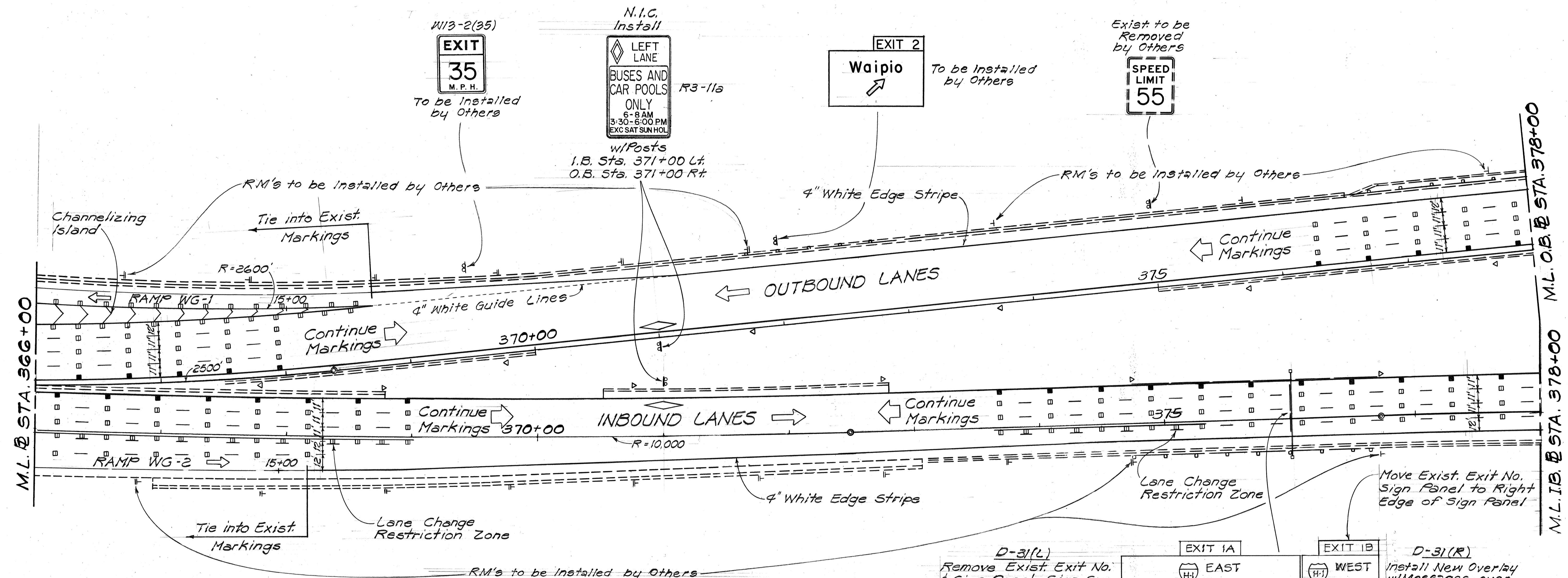
INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waiawa I.C.
F.A.I. Proj. No. IR-H2-1(29)

Scale: As Shown Date: Apr., 1989

SHEET No. 72 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(29)	1989	64	81

True North
Scale: 1"=40'



NOTE: Pavement Markings
Not Part of Contract

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waianae I.C.
F.A.I. Proj. No. 1R-H2-1(29)

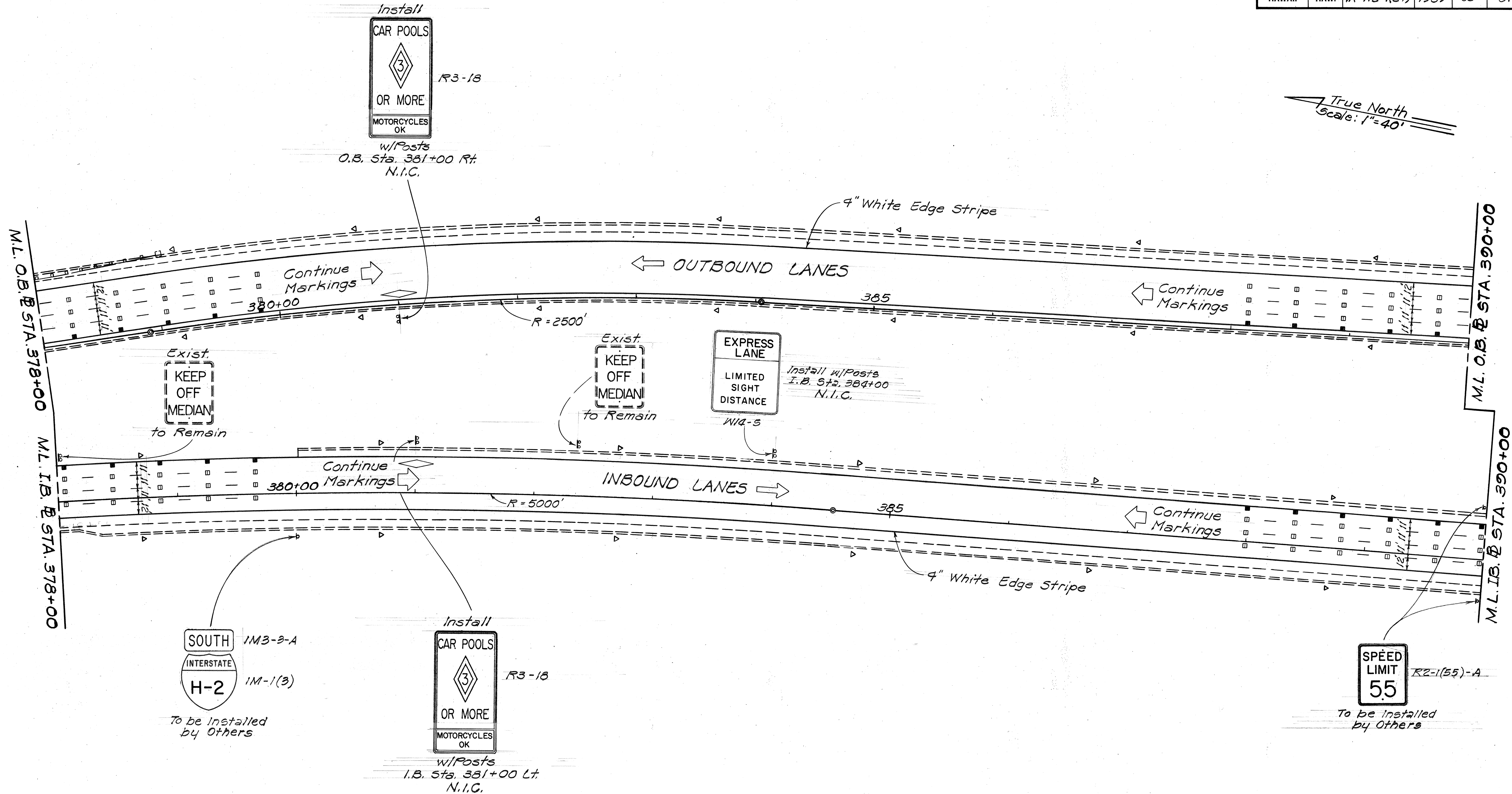
Scale: As Shown Date: Apr., 1989

SHEET No. 728 OF 45 SHEETS

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES 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.	IR-H2-1(24)	1989	65	81

True North
Scale: 1"=40'



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

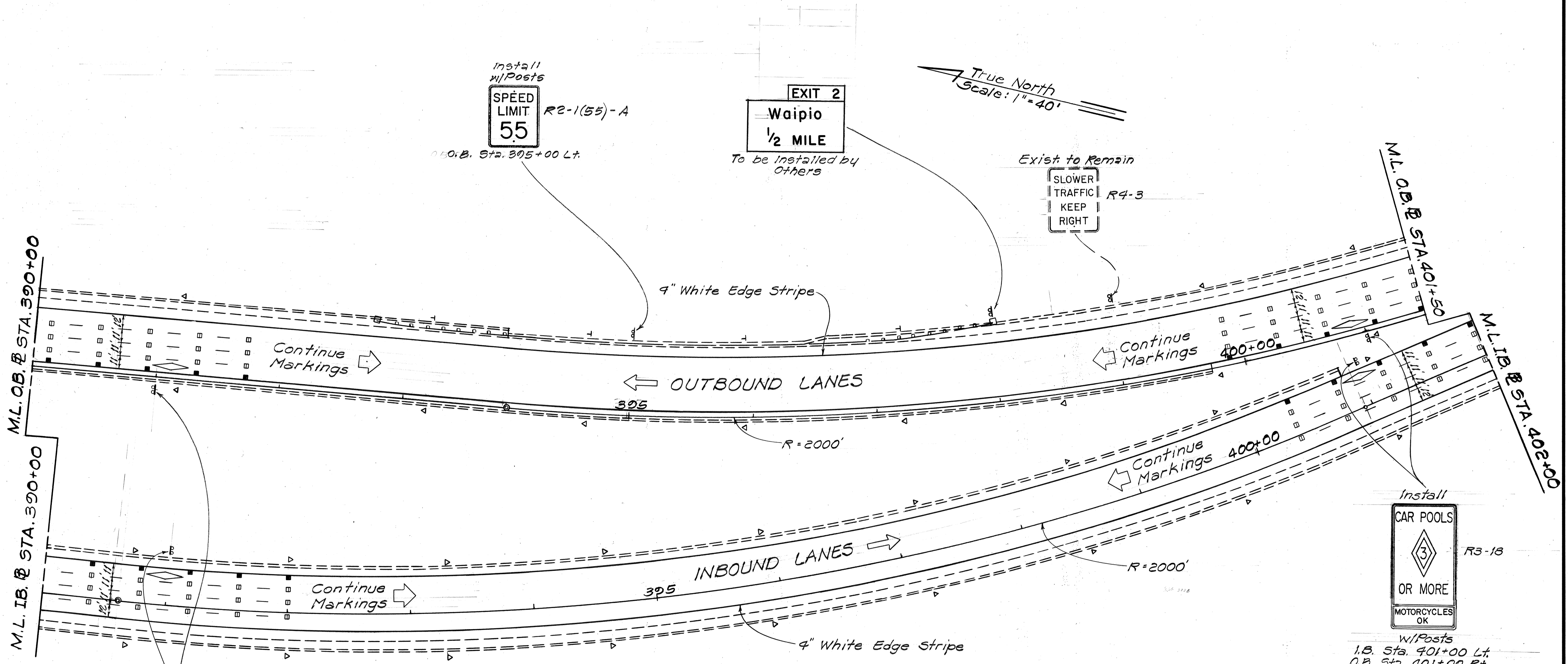
SOUTH INTERSTATE H-2
 IMB-3-A
 IM-1(3)
 To be installed by Others

Install CAR POOLS OR MORE MOTORCYCLES OK
 R3-18
 w/Posts
 I.B. Sta. 381+00 Lt.
 N.I.C.

NOTE: Pavement Markings
 Not Part of Contract

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
 INTERSTATE ROUTE H-2 IMPROVEMENTS
 Waiawa I.C. to Waiawa I.C.
 F.A.I. Proj. No. IR-H2-1(24)
 Scale: As Shown Date: Apr., 1989
 SHEET No. 72 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	66	81



Install w/Posts
SPEED LIMIT 55
 R2-1(55)-A
 O.B. Sta. 395+00 Lt.

EXIT 2
 Waipio
 1/2 MILE
 To be installed by Others

Exist to Remain
SLOWER TRAFFIC KEEP RIGHT
 R4-3

Install
CAR POOLS 3 OR MORE
 MOTORCYCLES OK
 R3-18

Install
EXPRESS LANE
 R3-19
 6-8 AM
 3:30-6:00PM
 EXCEPT SAT
 SUN & HOL

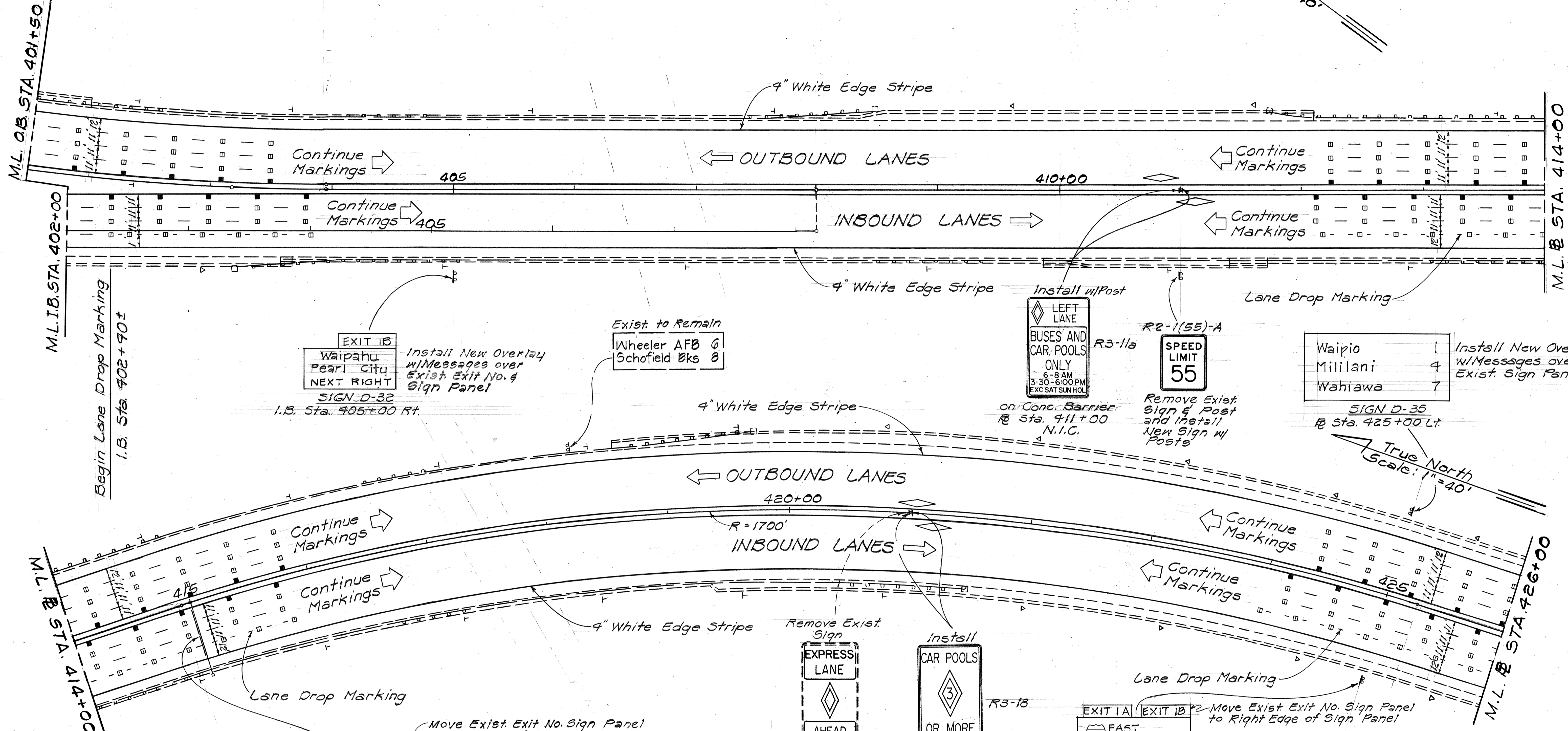
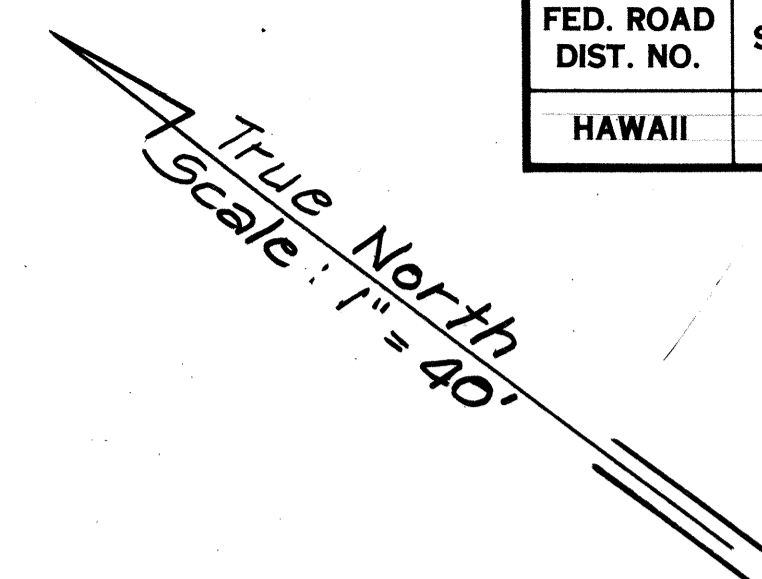
w/Posts
 I.B. Sta. 391+00 Lt.
 O.B. Sta. 391+00 Rt.
 N.I.C.

NOTE: Pavement Markings
 Not Part of Contract

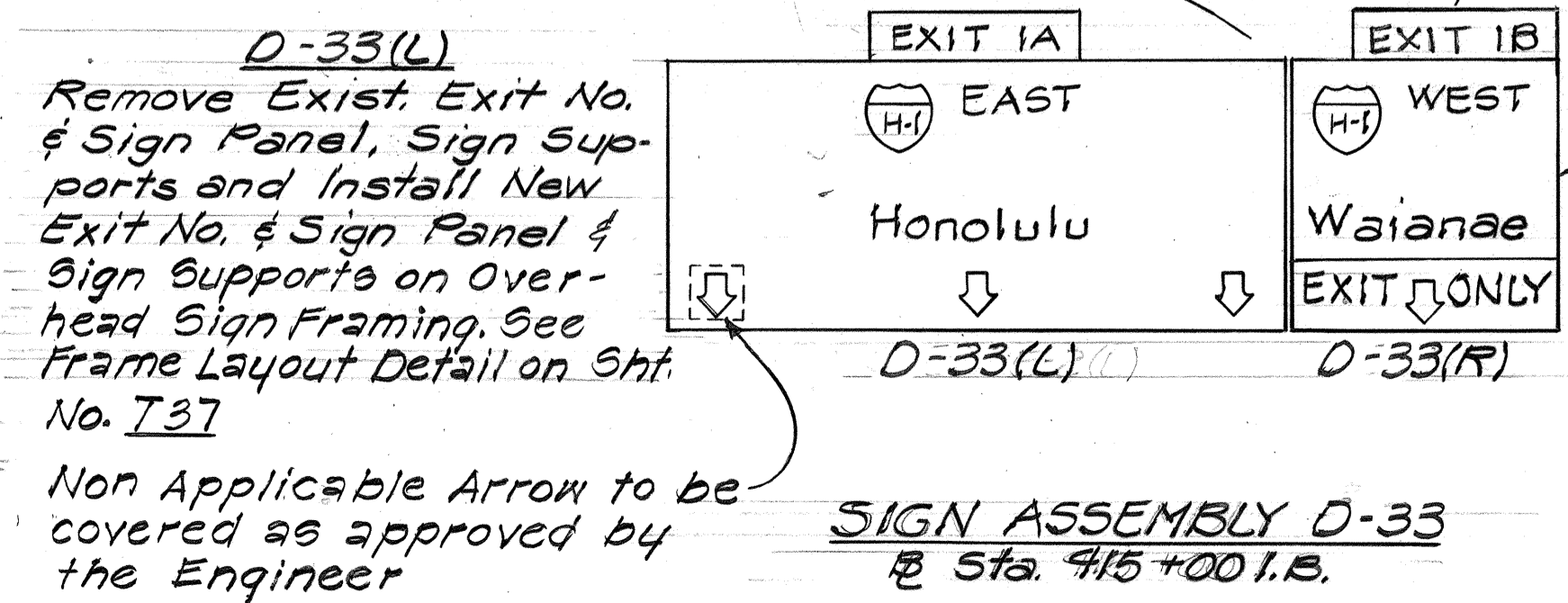
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
 INTERSTATE ROUTE H-2 IMPROVEMENTS
 Waiiana I.C. to Waiana I.C.
 F.A.I. Proj. No. 1R-H2-1(24)
 Scale: As Shown Date: Apr., 1989
 SHEET No. 730 OF 45 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	67	81



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



NOTE: Pavement Markings Not Part of Contract

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

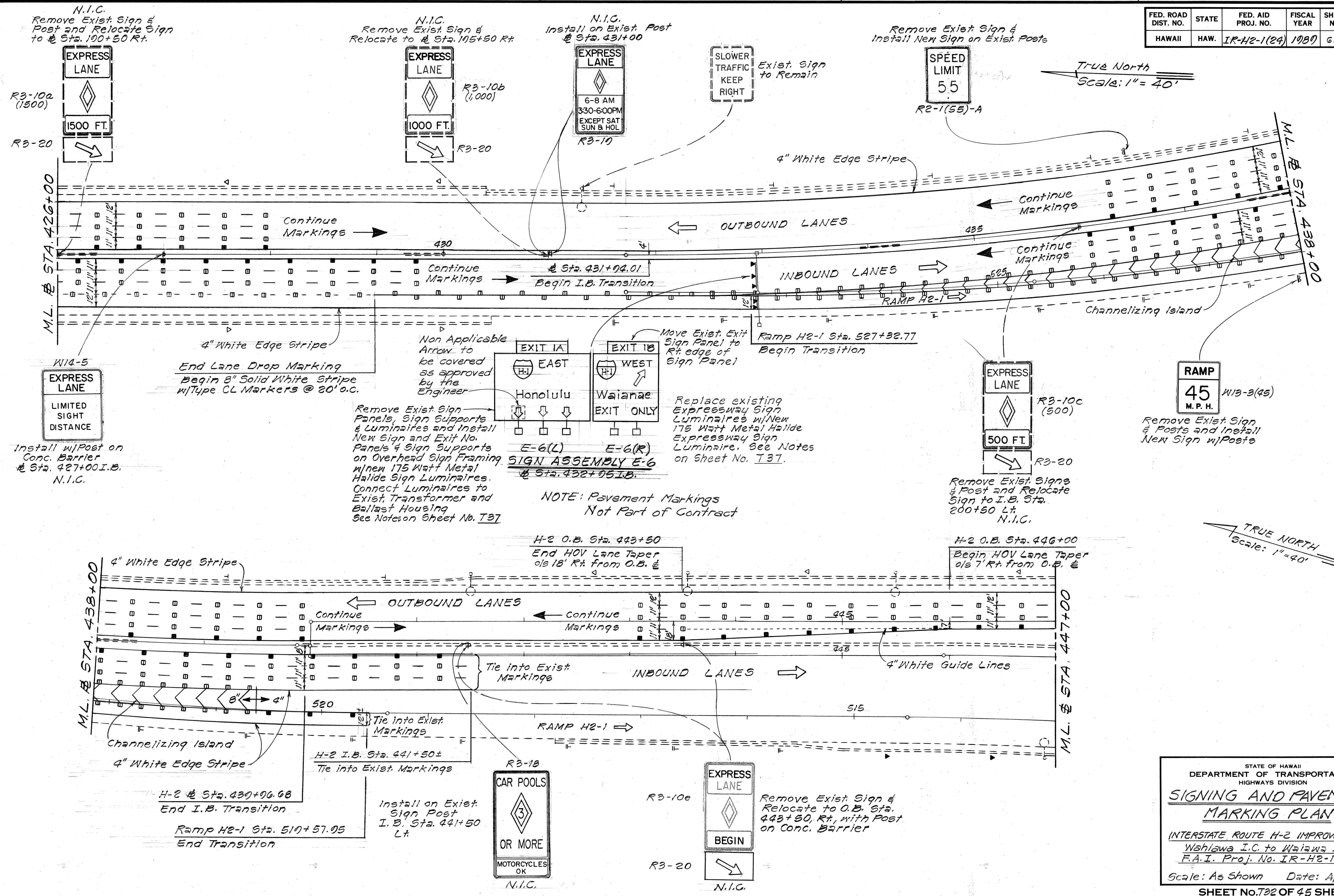
SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waianae I.C.
F.A.P. Proj. No. IR-H2-1(24)

Scale: As Shown Date: Apr., 1989

SHEET No. T31 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	68	81



TRUE North
Scale: 1" = 40'

TRUE NORTH
Scale: 1" = 40'

DATE	
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

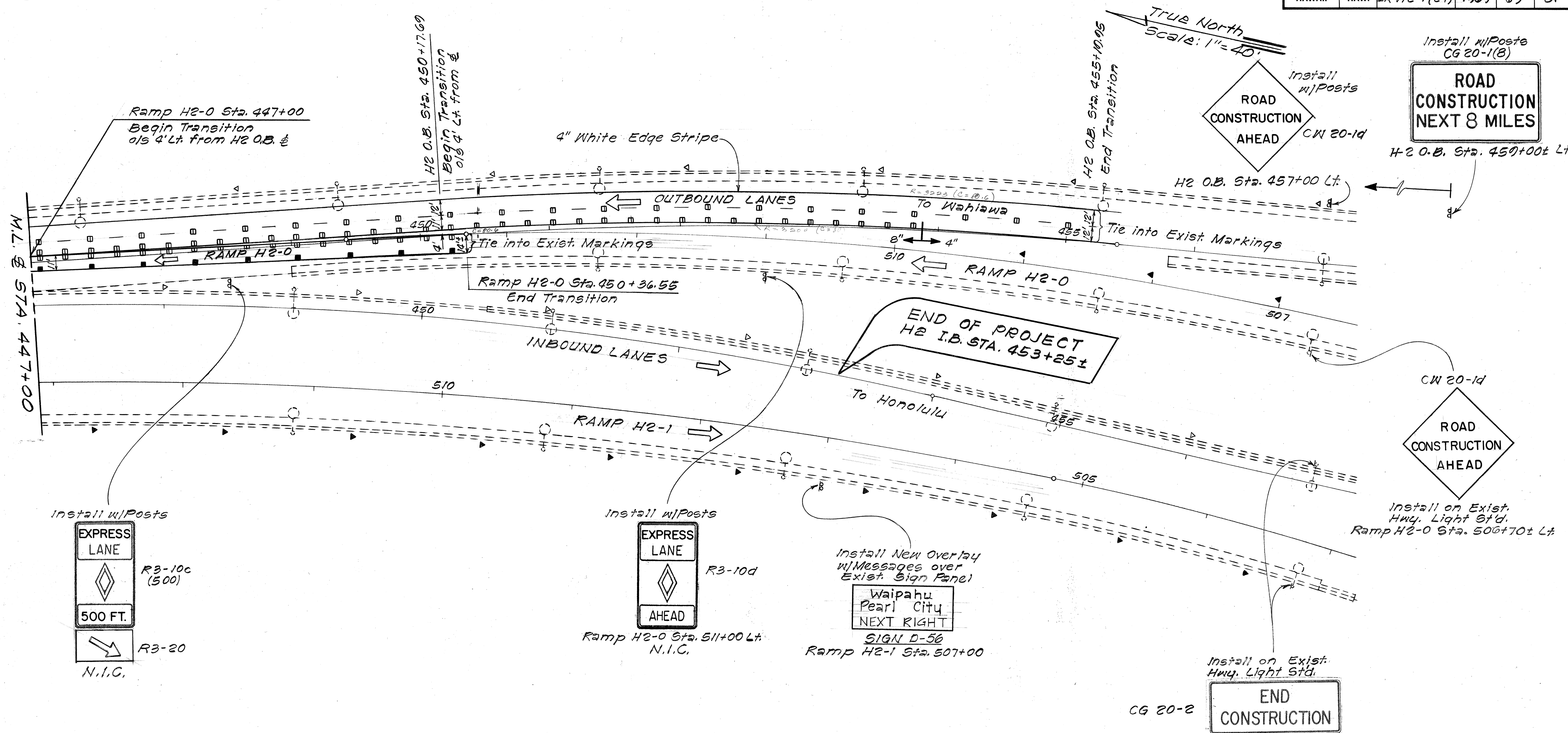
SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waiawa I.C.
F.A.I. Proj. No. IR-H2-1(24)

Scale: As Shown Date: Apr., 1989

SHEET NO. 732 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(24)	1989	69	81



NOTE: Pavement Marking Not Part of Contract

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

INTERSTATE ROUTE H-2 IMPROVEMENTS
Wahiawa I.C. to Waiawa I.C.
F.A.I. Proj. No. IR-H2-1(24)

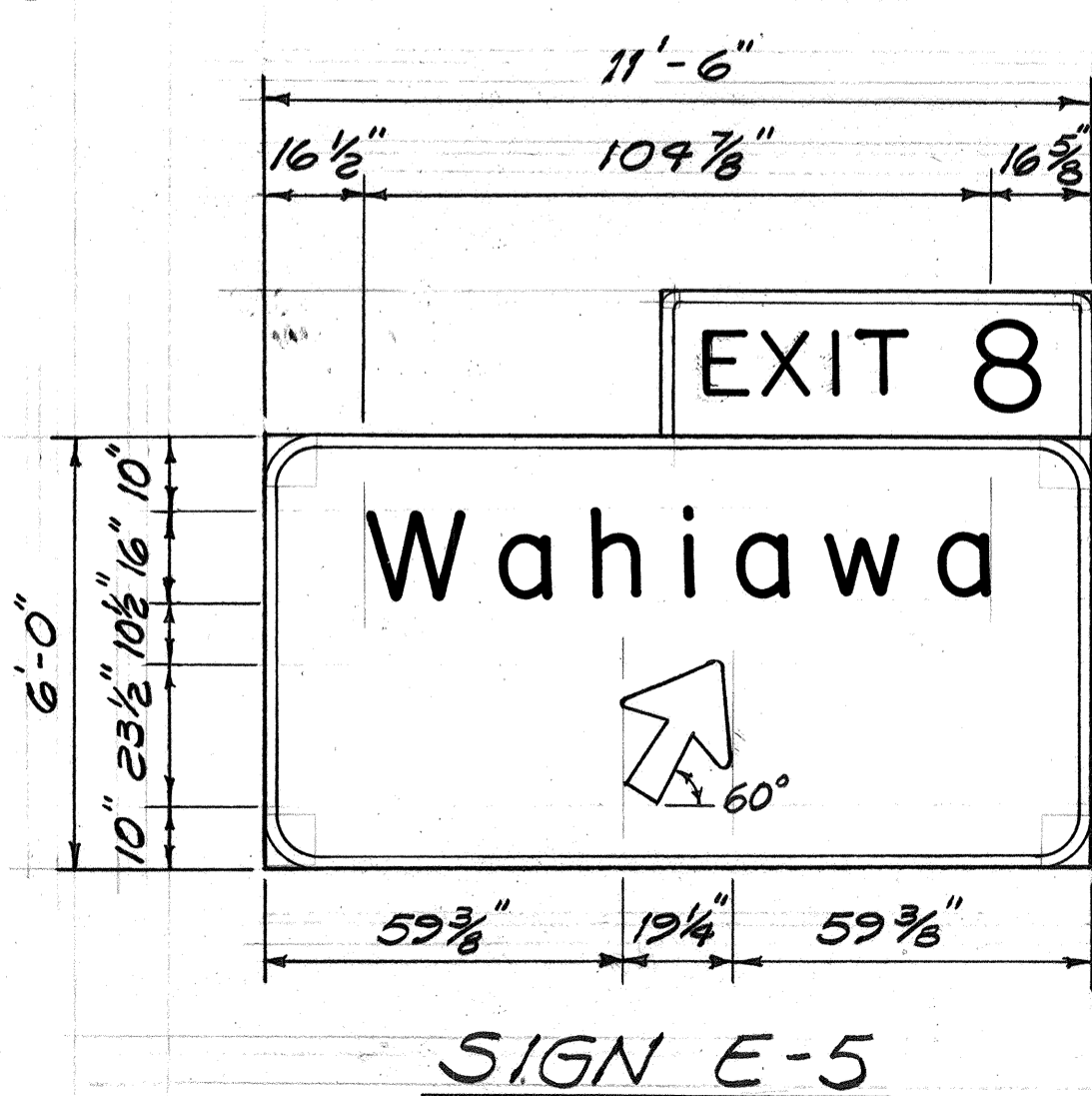
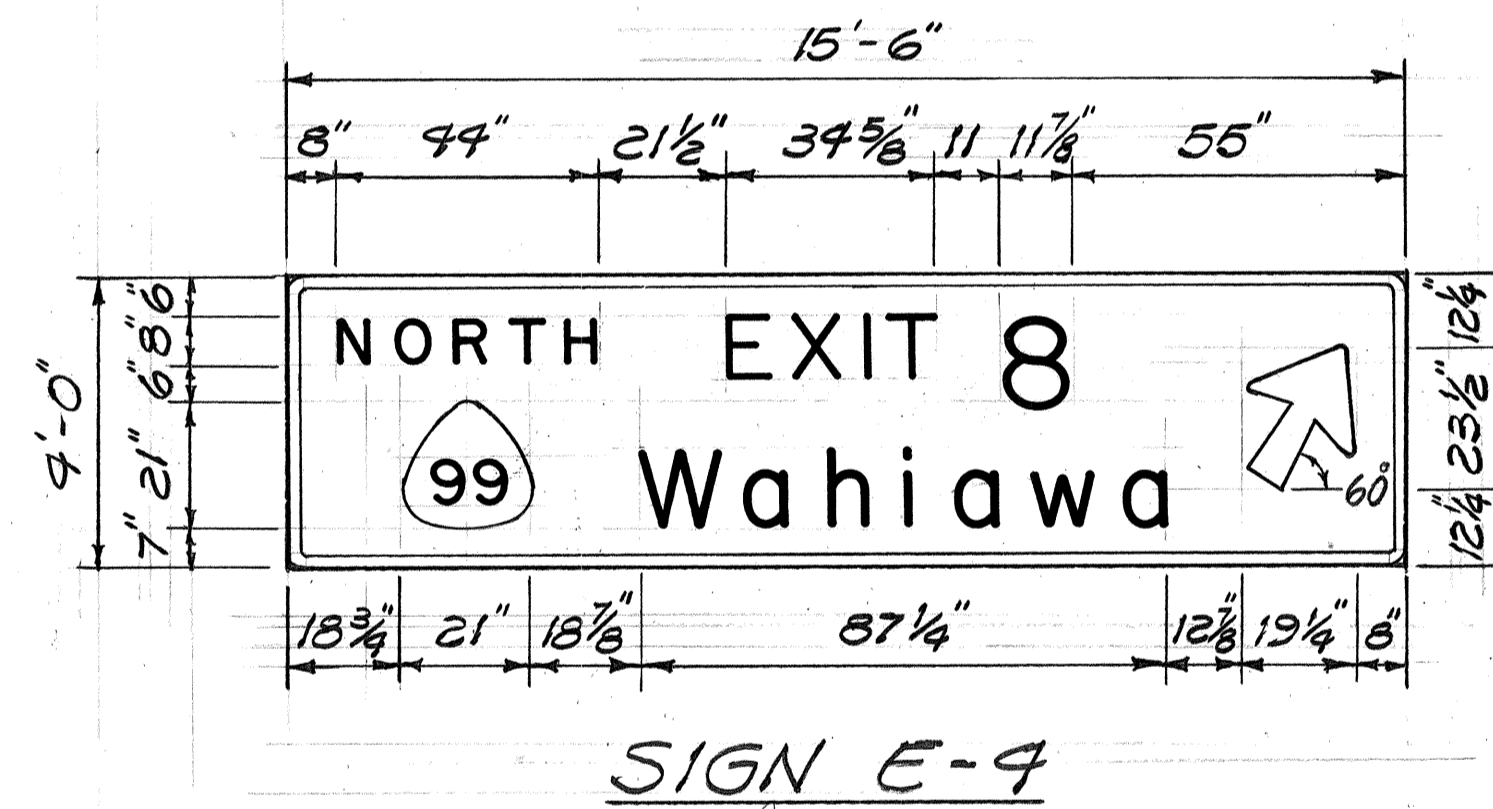
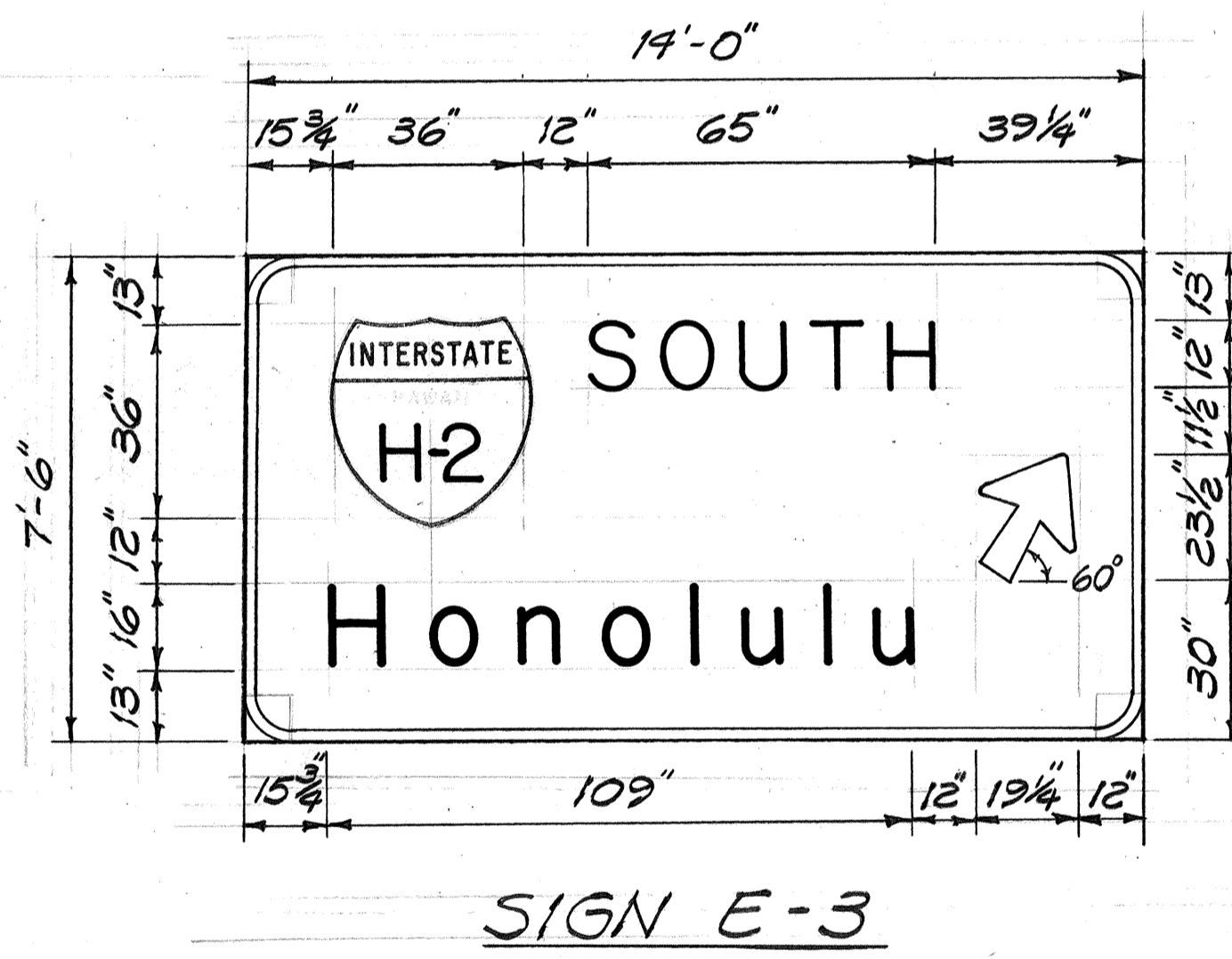
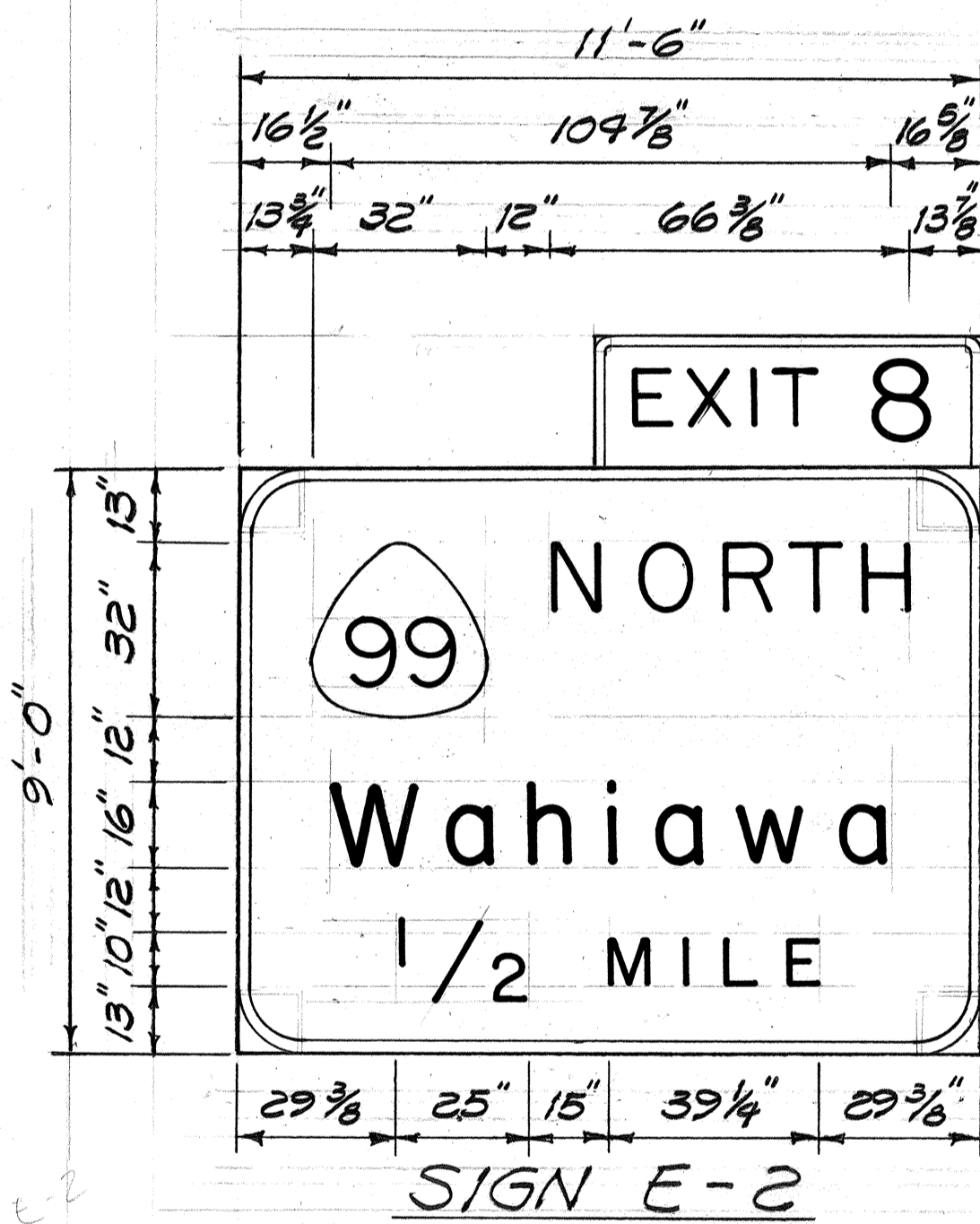
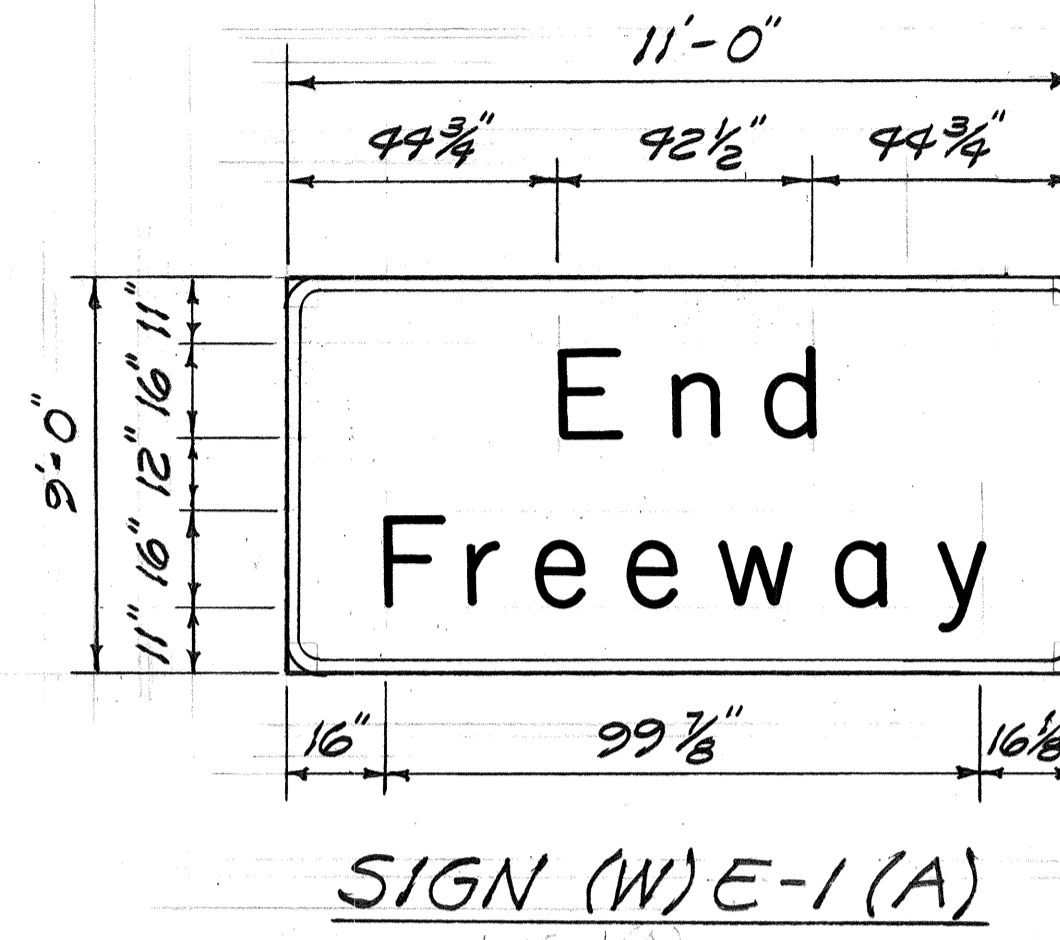
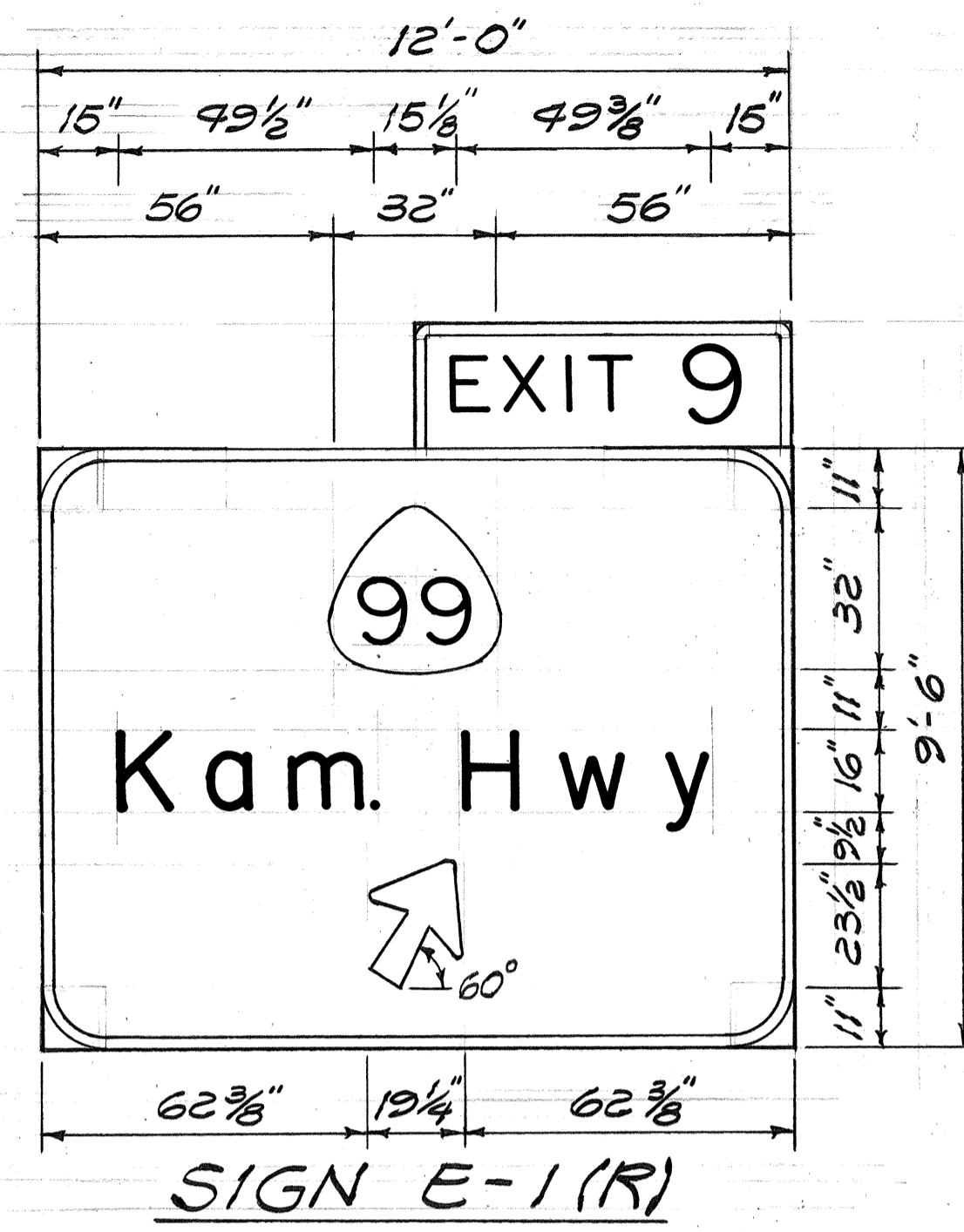
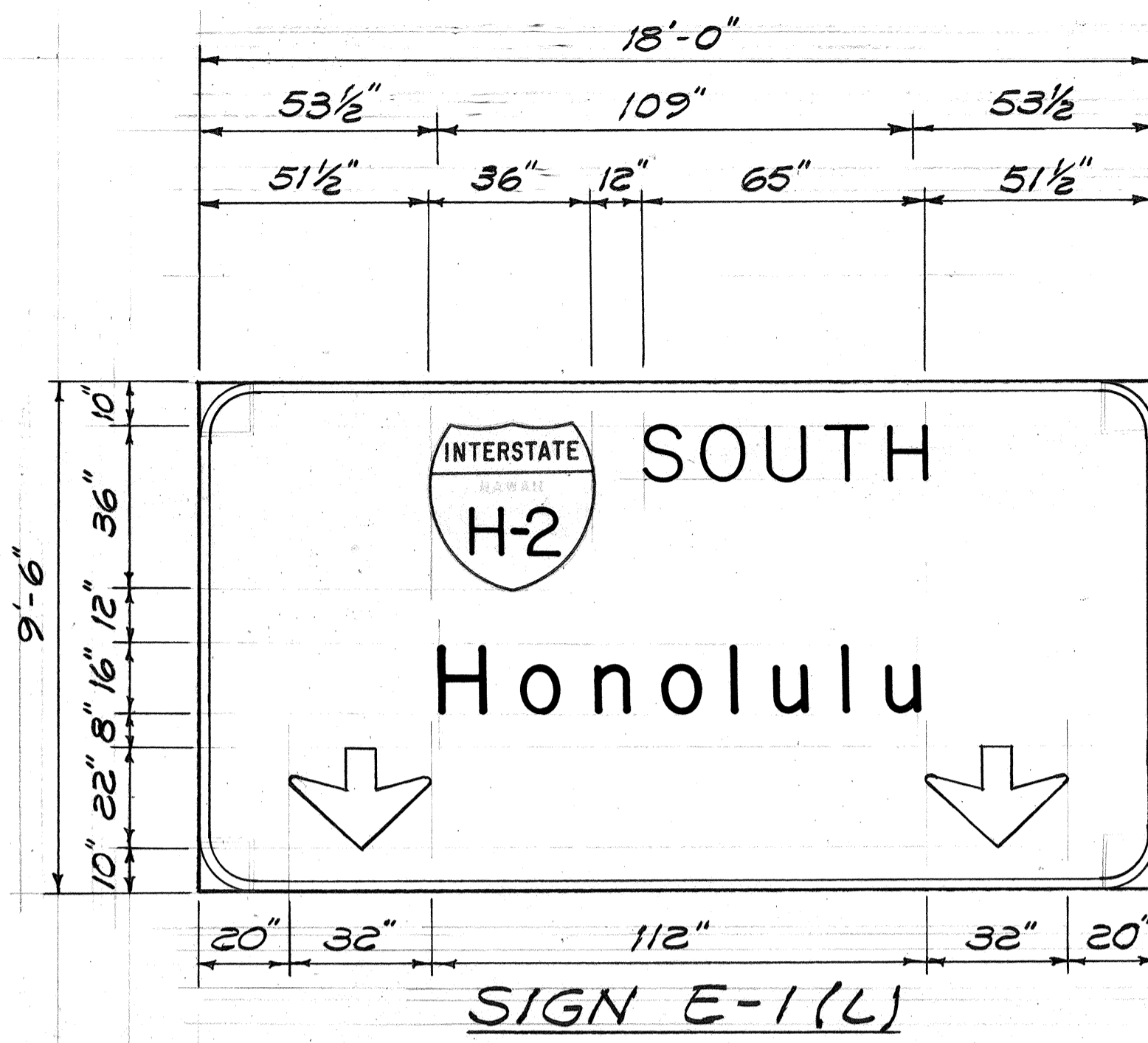
Scale: As Shown Date: Apr., 1989
SHEET No. 69 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1980	70	81

EXPRESSWAY (E) & DESTINATION (D) SIGN NOTES

- Interstate Route Marker symbols shall conform to details shown on the plans and as specified in the MUTCD.
- All overlay panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publication:
 - "Manual on Uniform Traffic Control Devices for Streets and Highways", (MUTCD).
 - "Standard Highway Signs".
 - "Standard Alphabets for Highway Signs".
- Borders, messages, arrows, symbols, and shields shall conform to details as shown on the plans and as specified in the MUTCD.
- Sign refurbishing shall consist of removing all existing borders, messages, arrows, symbols and shield from existing sign panel and otherwise clean the existing sign panel prior to installing the background overlay. Overlay panel shall be installed onto the existing sign panels with $\frac{1}{8}$ " blind rivets with a maximum spacing of 1'-0" o.c. New borders, messages, arrows, symbols, and shields shall be installed with blind rivets in accordance with the manufacturer's instructions.
- 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.
- Expressway (E) and Destination (D) Signs with a prefix "W" shall be fabricated in accordance with their respective specifications except the background shall be yellow and the lettering black.
- The contractor shall verify the locations and dimensions of existing Expressway Sign Panels and supports.
- The clearance between the highest point on the pavement and the lowest point on the overhead sign luminaires shall be 17 feet.
- Moving existing Exit Number Sign Panels to the right edge of Expressway Signs shall be considered incidental to item No. 621.0400 - Overlay Panel for Exit Number Sign.

N.I.C.



NOTE:
All signs on this sheet are drawn to scale @ $\frac{3}{8}$ " = 1'-0".

SIGN NOTES (cont.)

- Contractor shall submit all sign splicing details to the Engineer for approval. All backing of signs 9 ft. by 6 ft. or less shall be of one sheet.
- For details of Gore Exit Signs, see Sheet No. _____
- Destination Sign Posts shall be as noted on the plans.

N.I.C.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

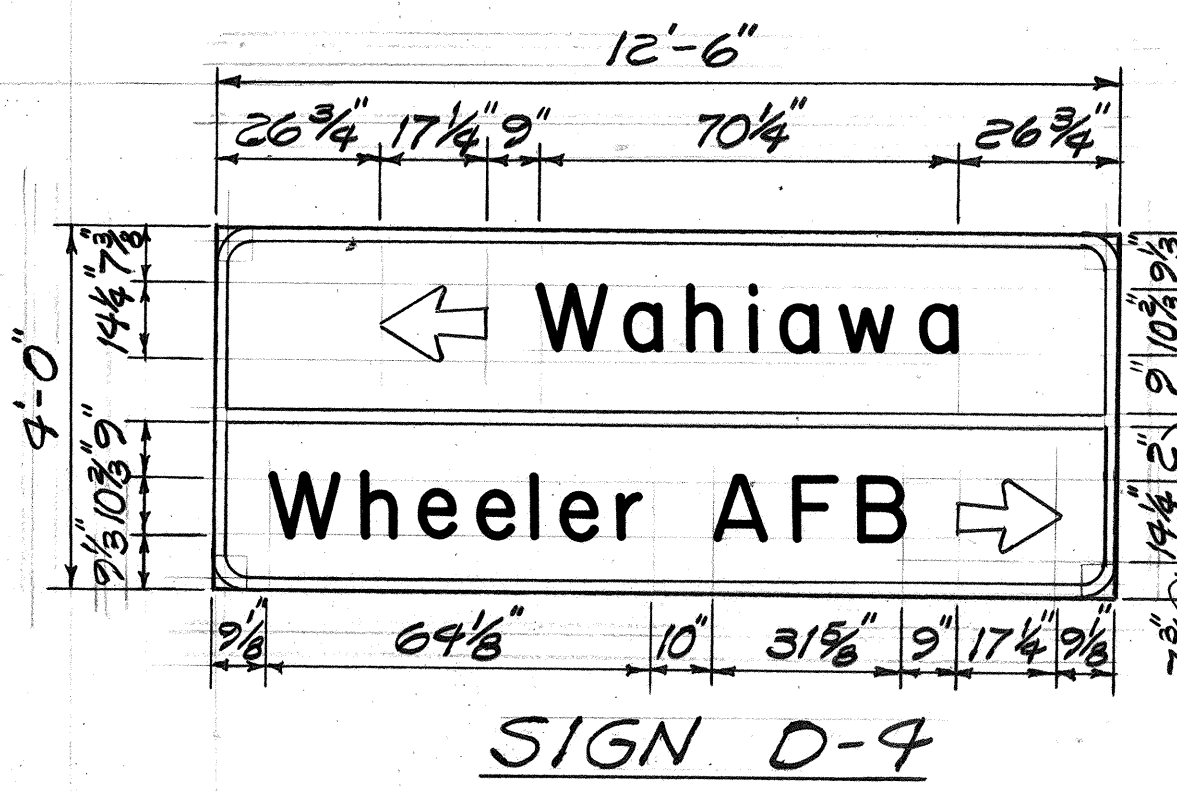
**PANEL LAYOUTS
& SIGN NOTES**

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAHIAWA I.C. TO WAIANA I.C.
F.A.I. PROJ. NO. 1R-H2-1(24)

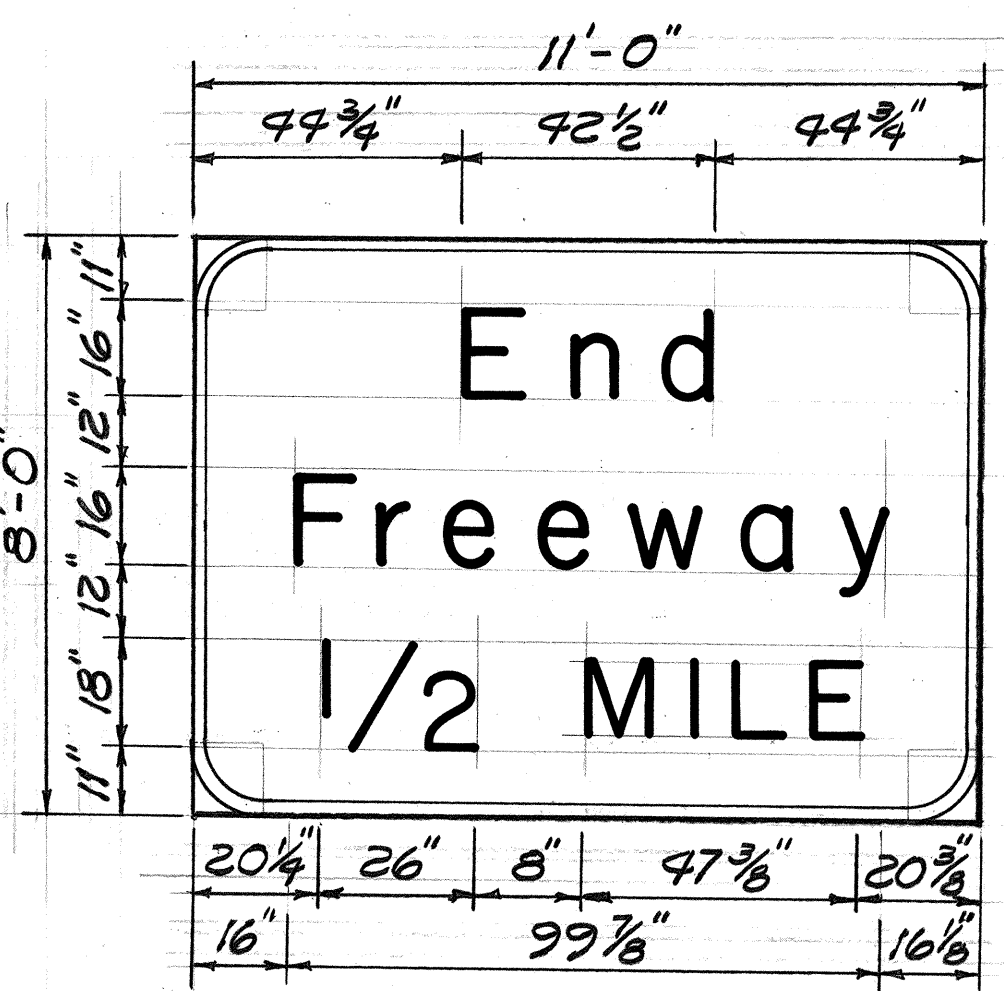
Scale: As Shown Date: Apr, 1980

SHEET No. 734 OF 45 SHEETS

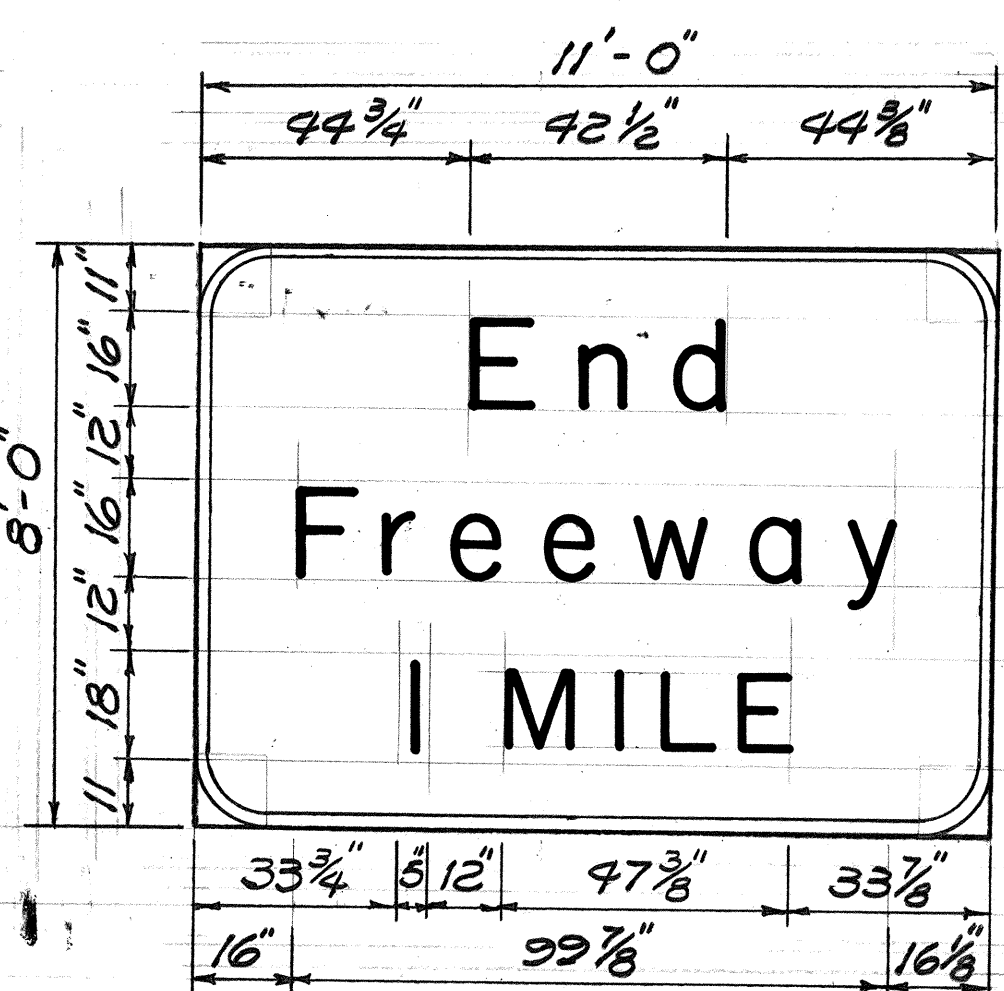
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1980	71	80



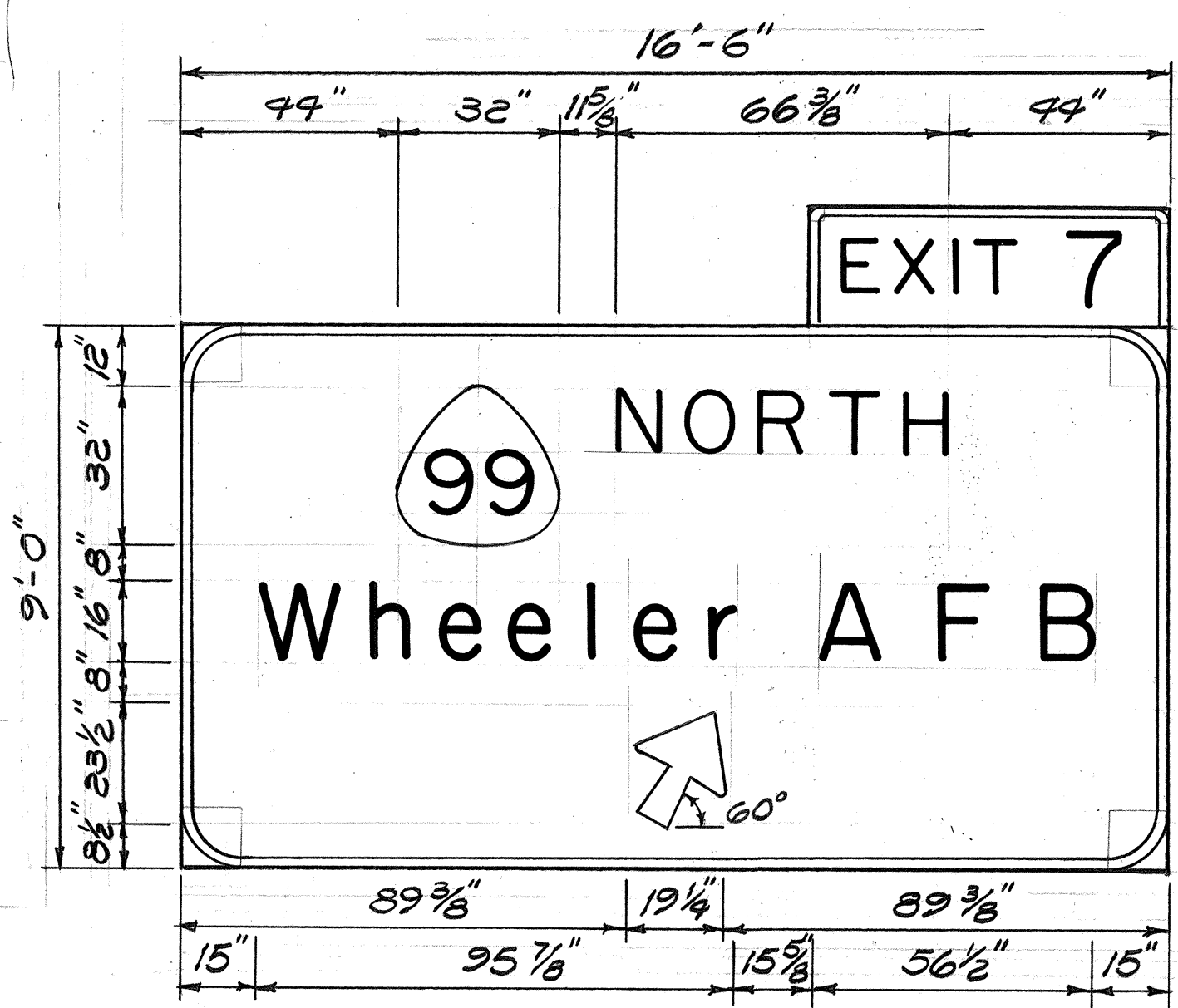
SIGN D-4



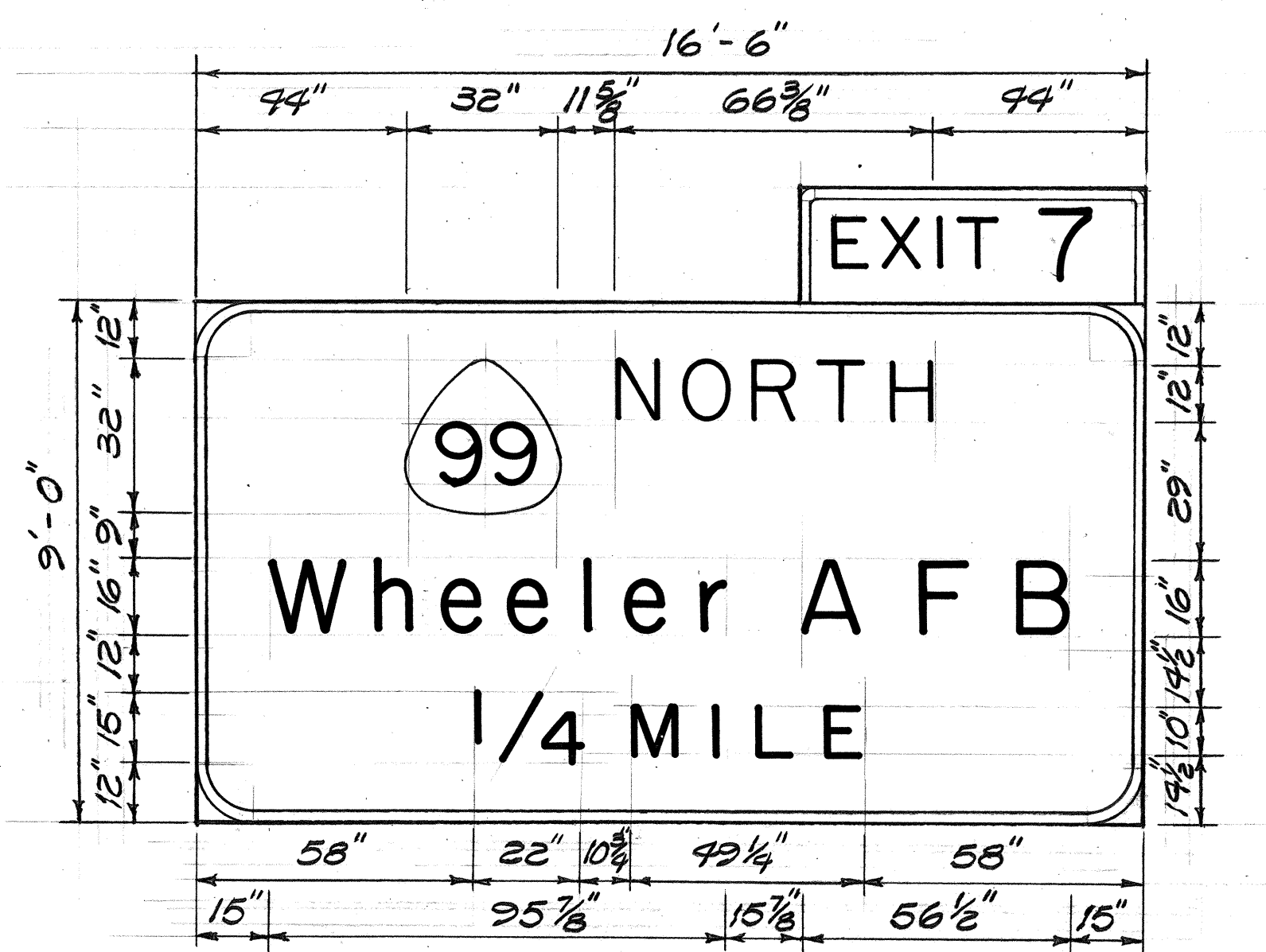
SIGN (W)D-2



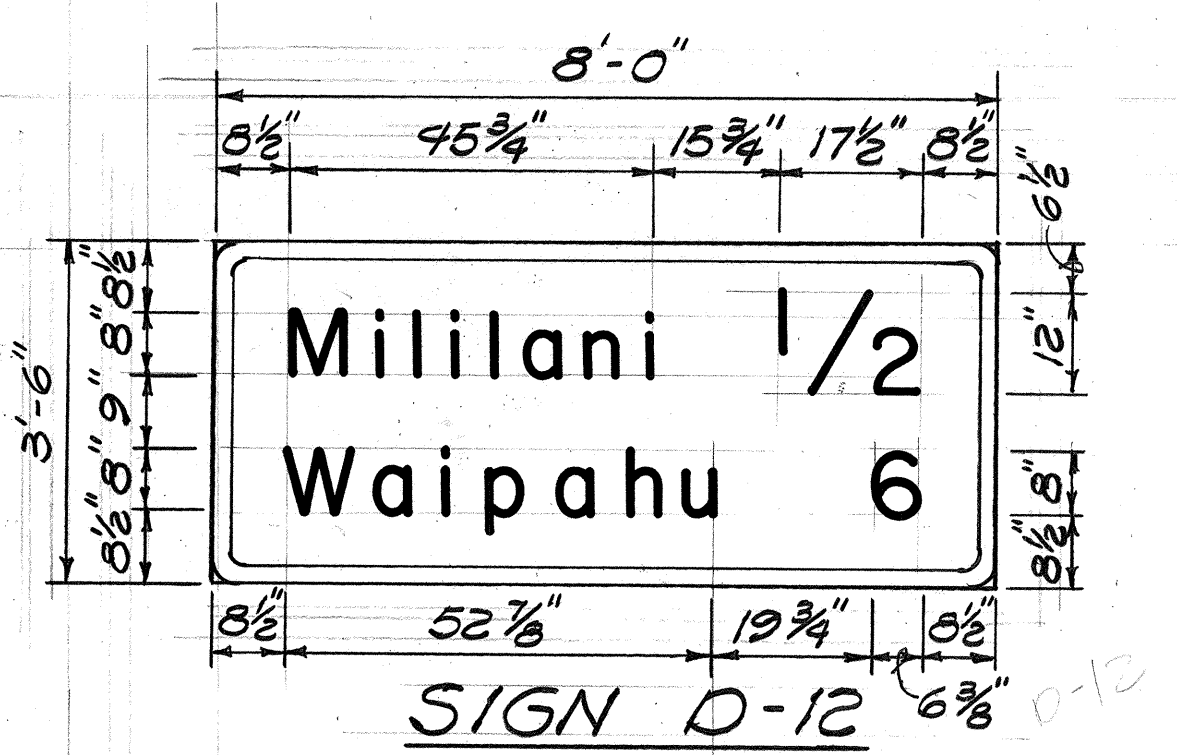
SIGN (W)D-6



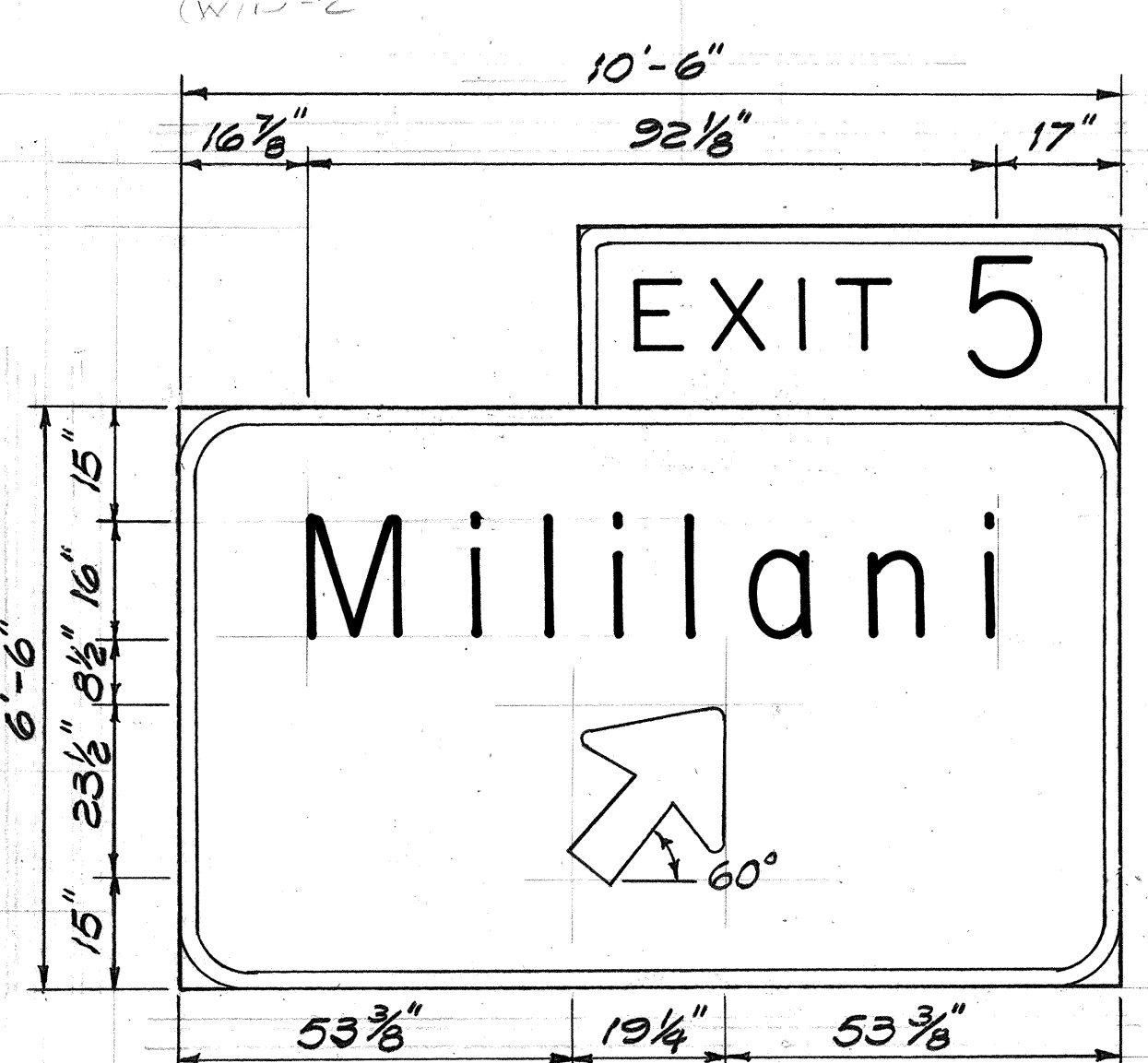
SIGN D-11



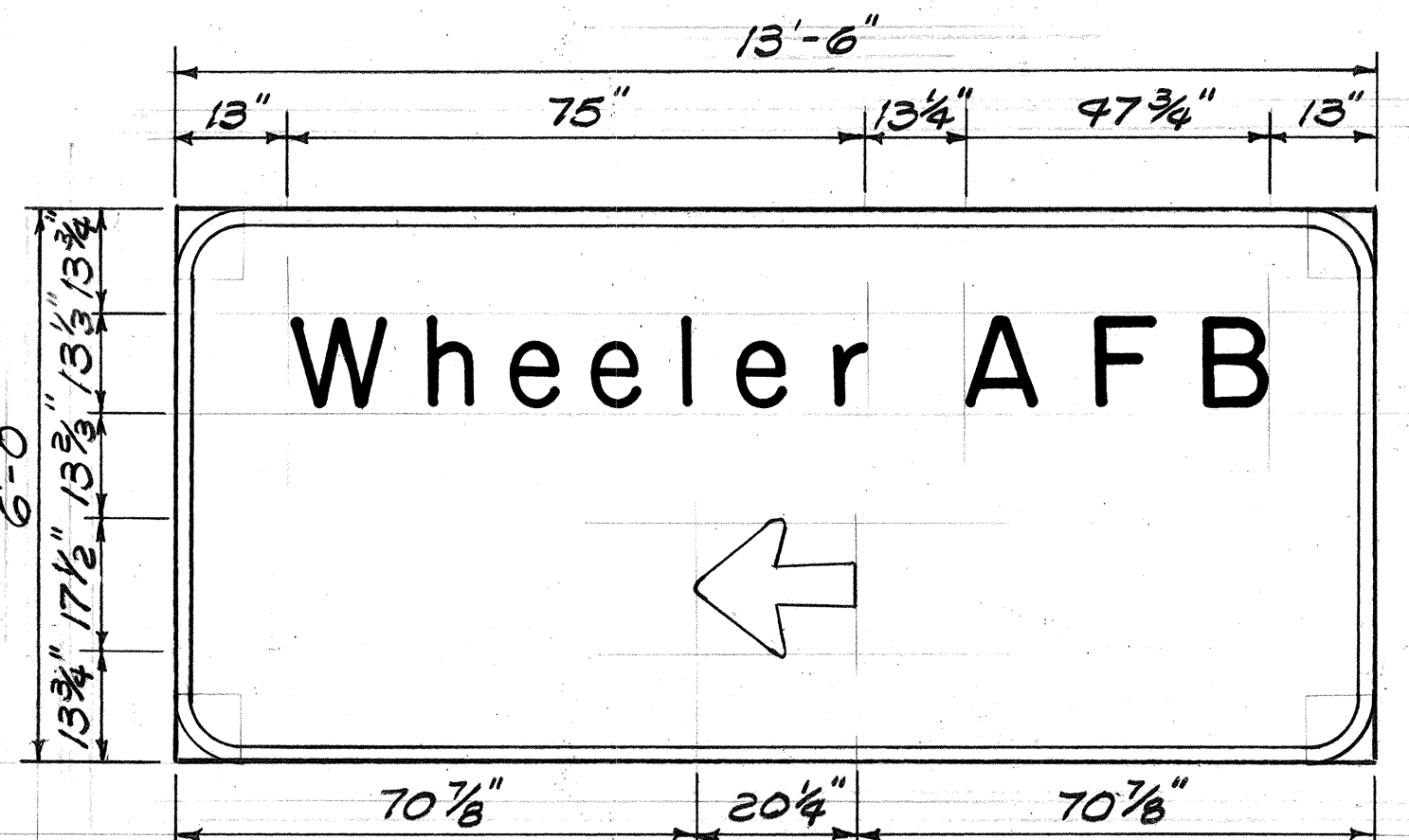
SIGN D-13



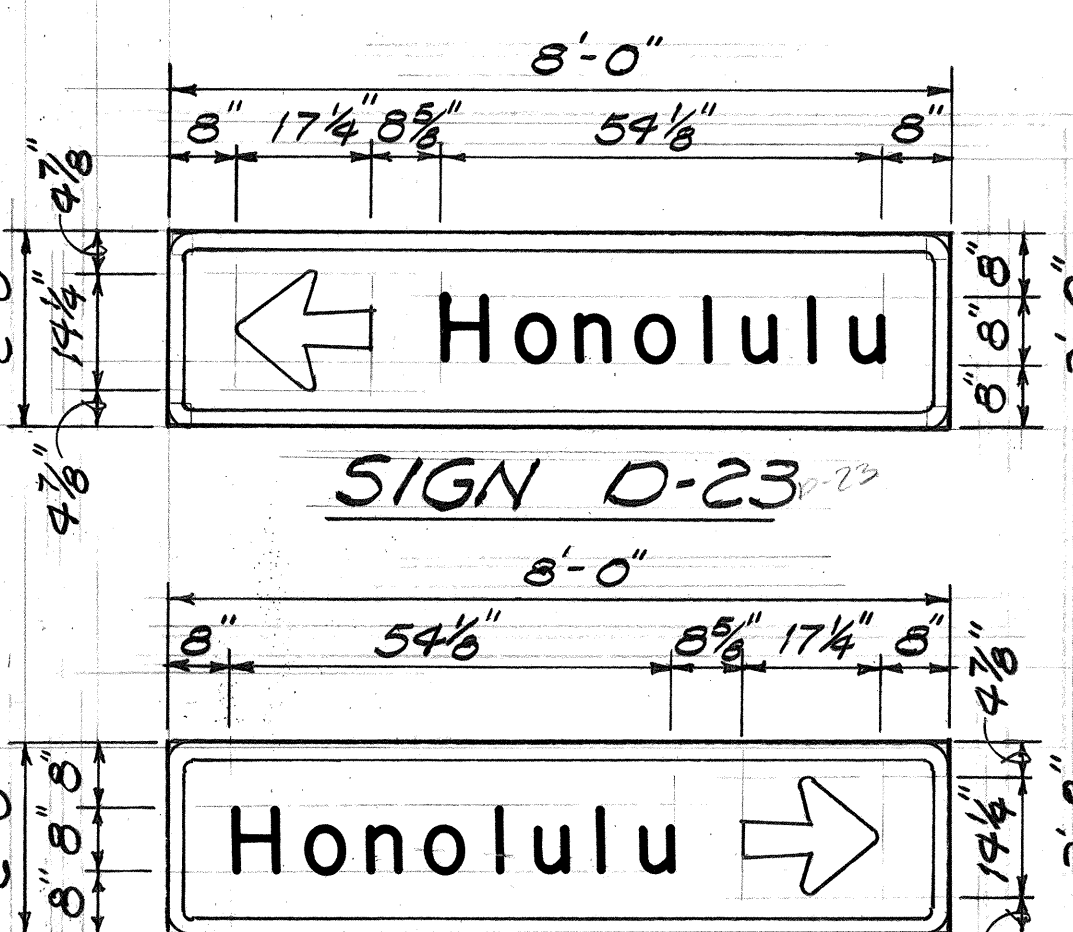
SIGN D-12



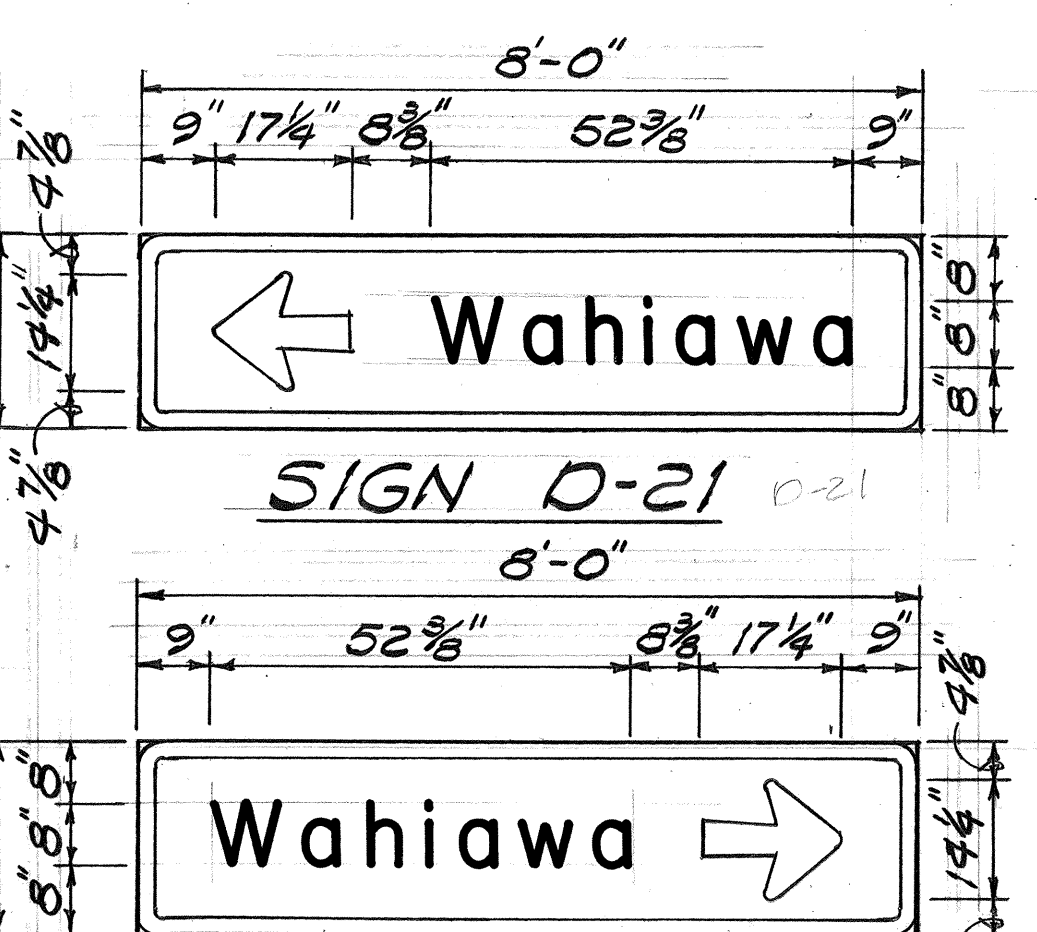
SIGN D-15



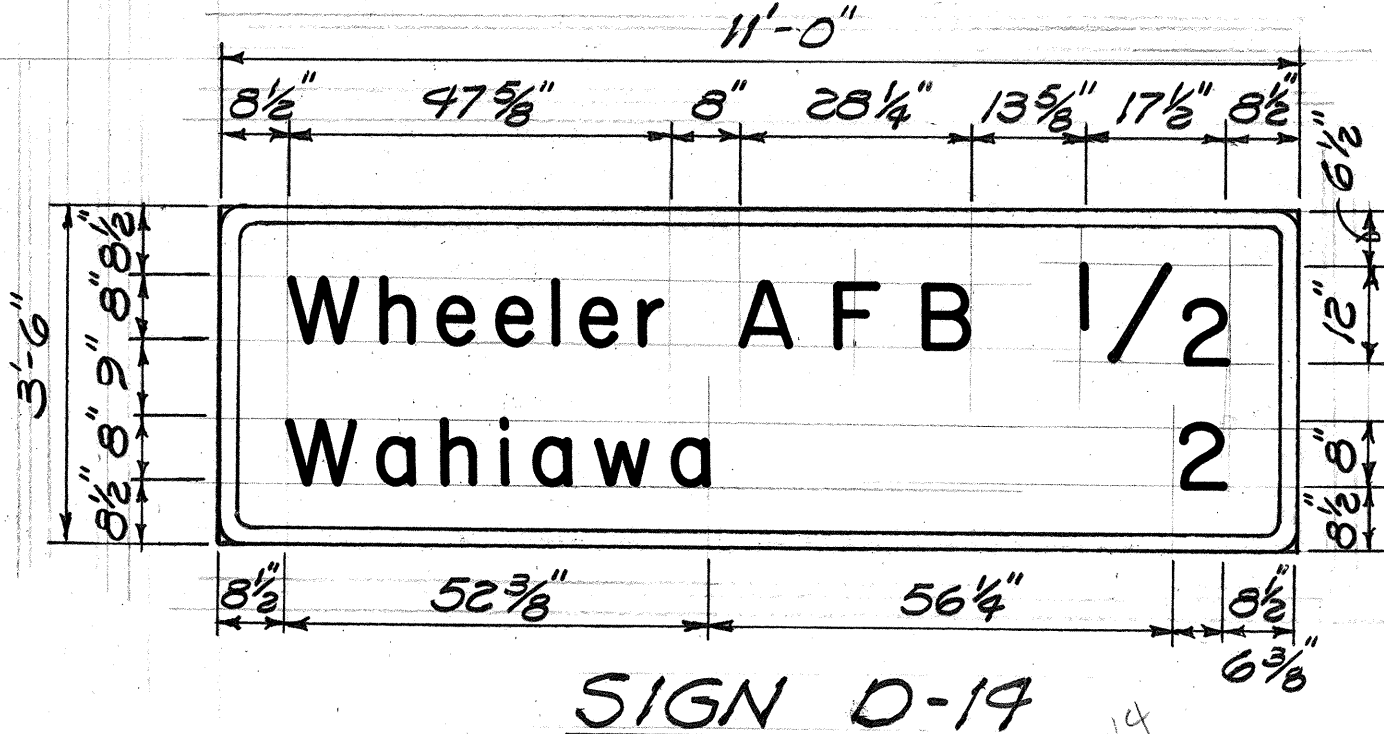
SIGN D-7



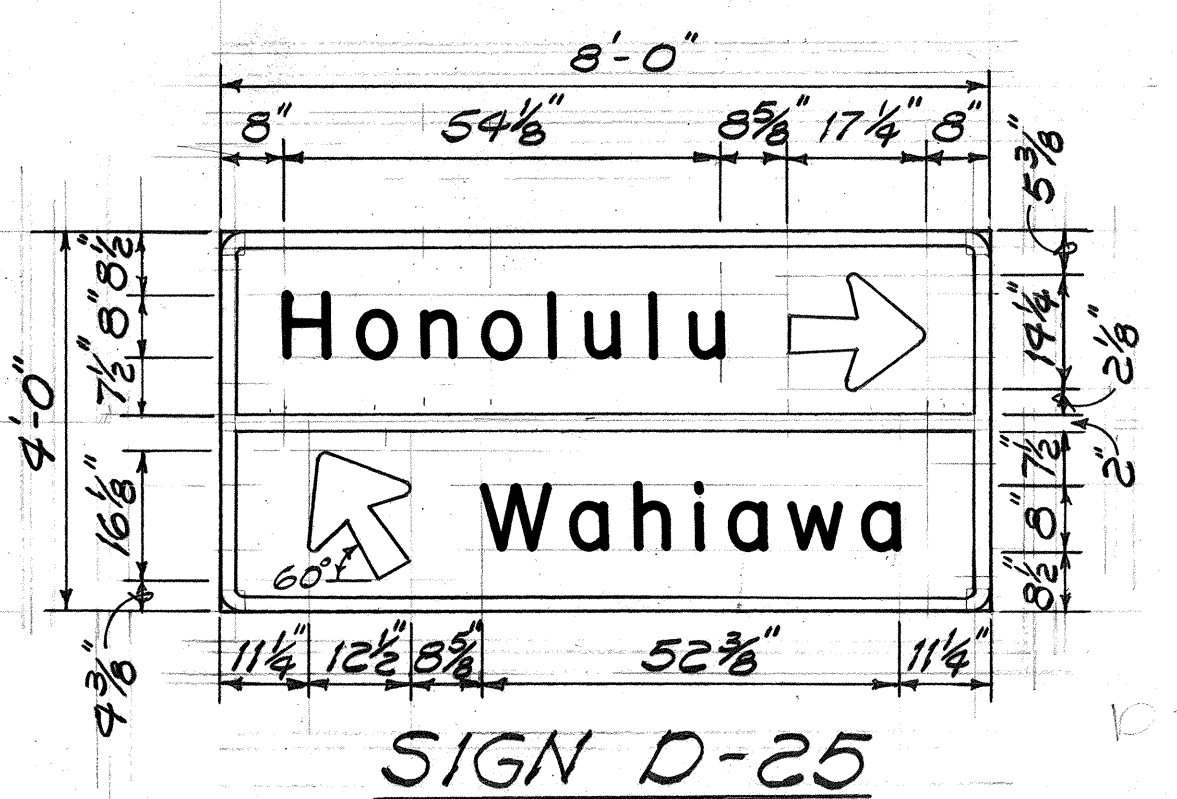
SIGN D-23



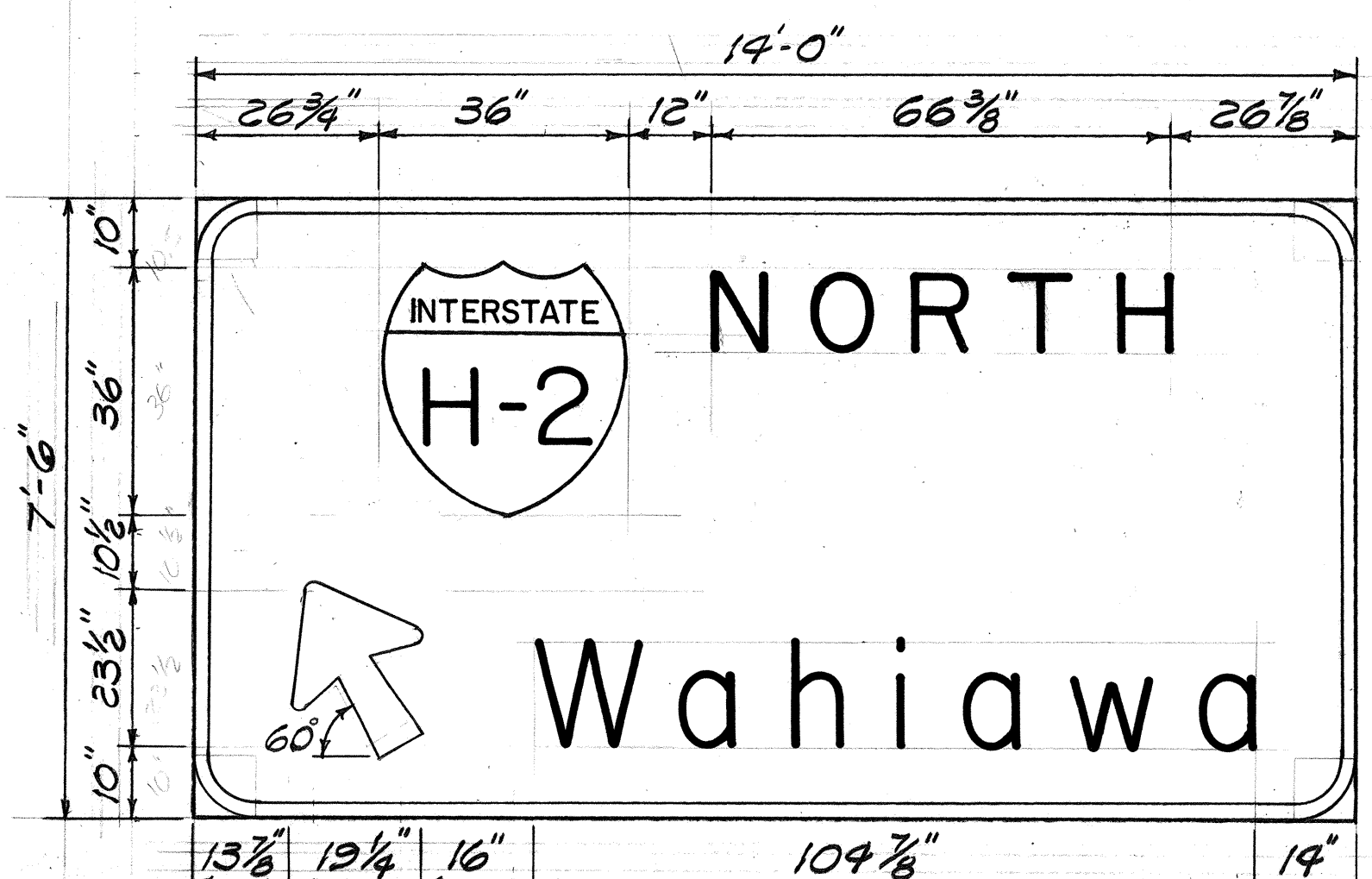
SIGN D-21



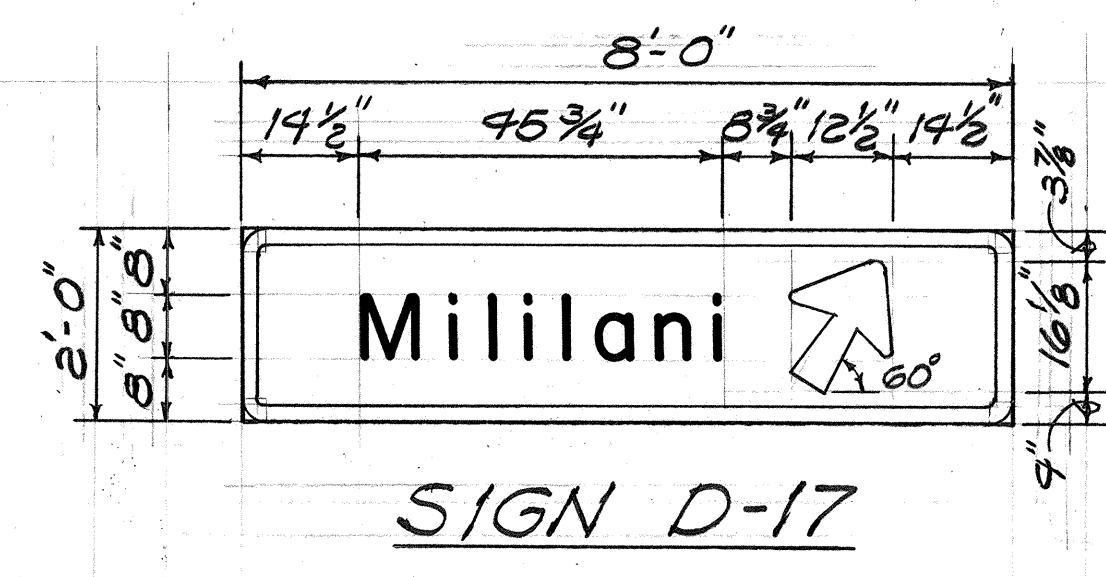
SIGN D-19



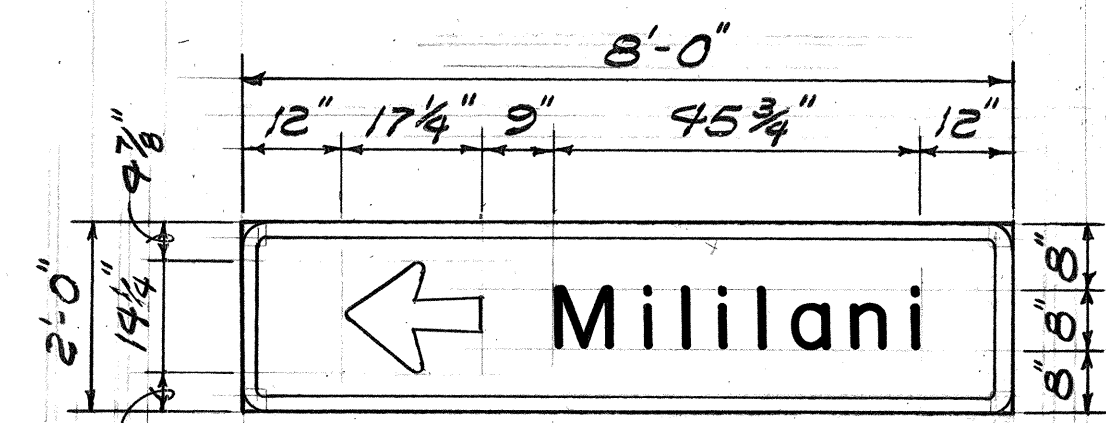
SIGN D-25



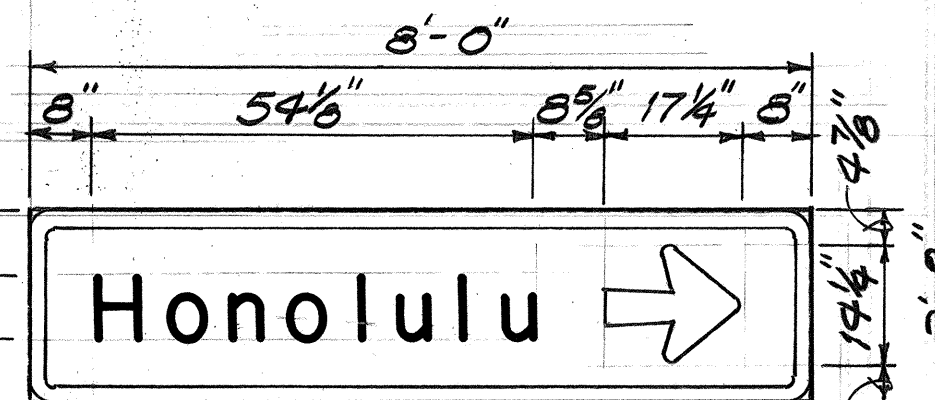
SIGN D-22



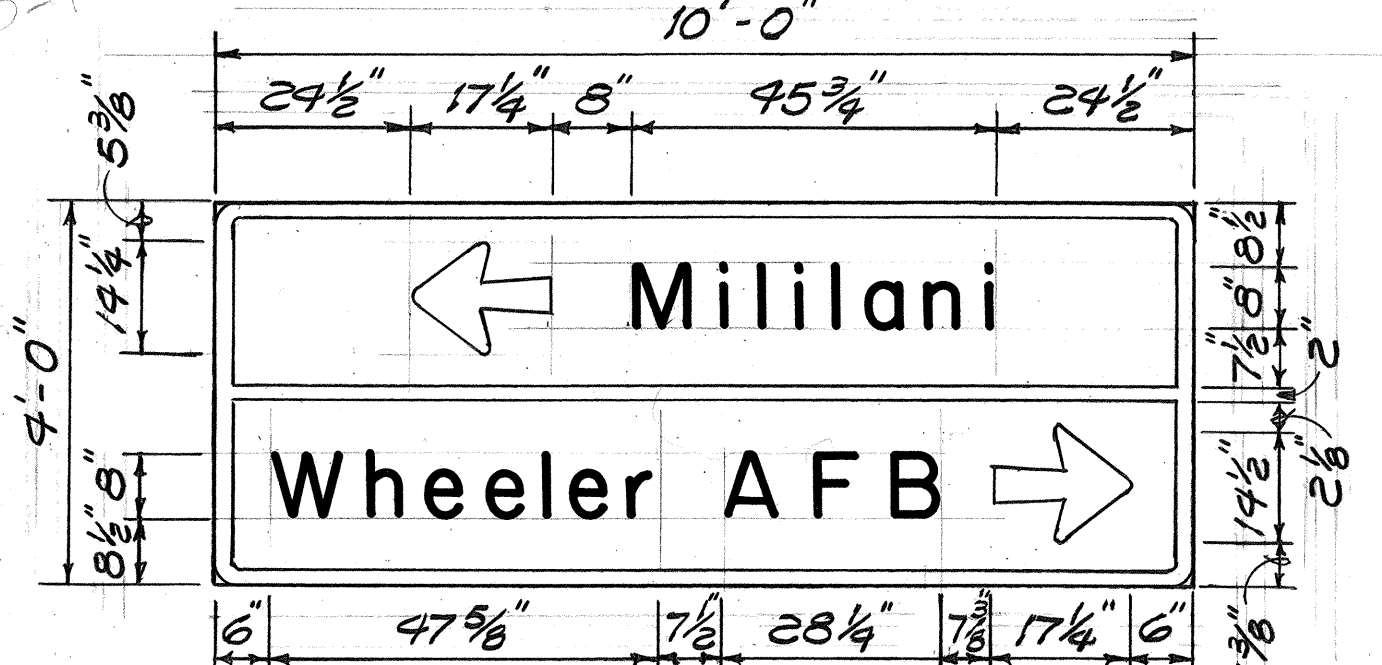
SIGN D-17



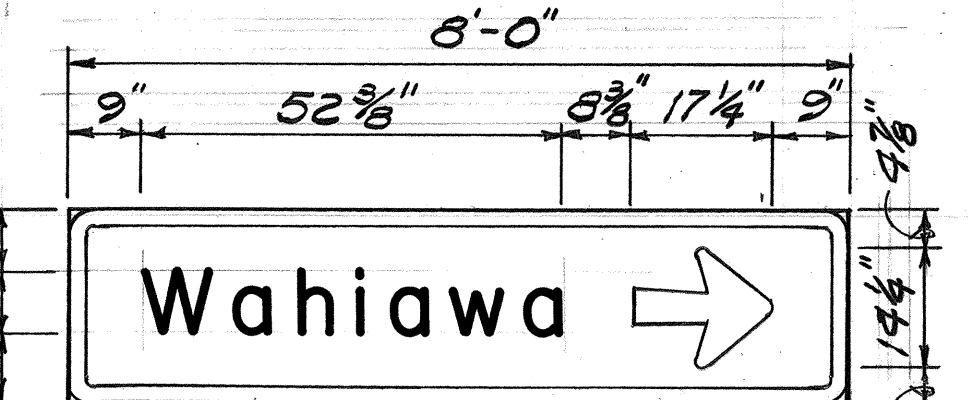
SIGN D-18



SIGN D-9



SIGN D-8



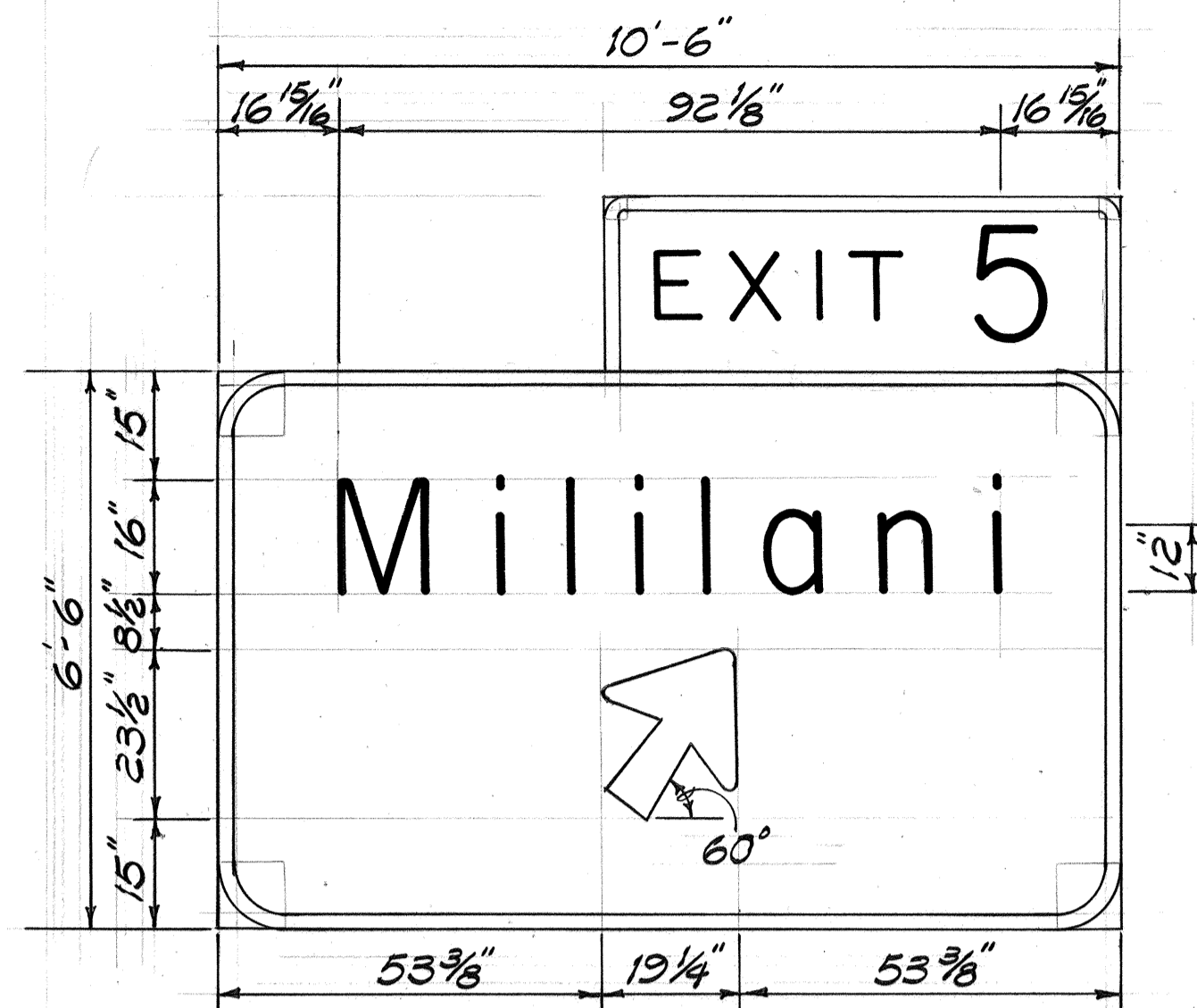
SIGN D-20 & D-24

NOTE:
Signs on this sheet denoted with an asterisk (*) are drawn to scale @ 3/8" = 1'-0". All remaining signs on this sheet are drawn to scale @ 1/2" = 1'-0".

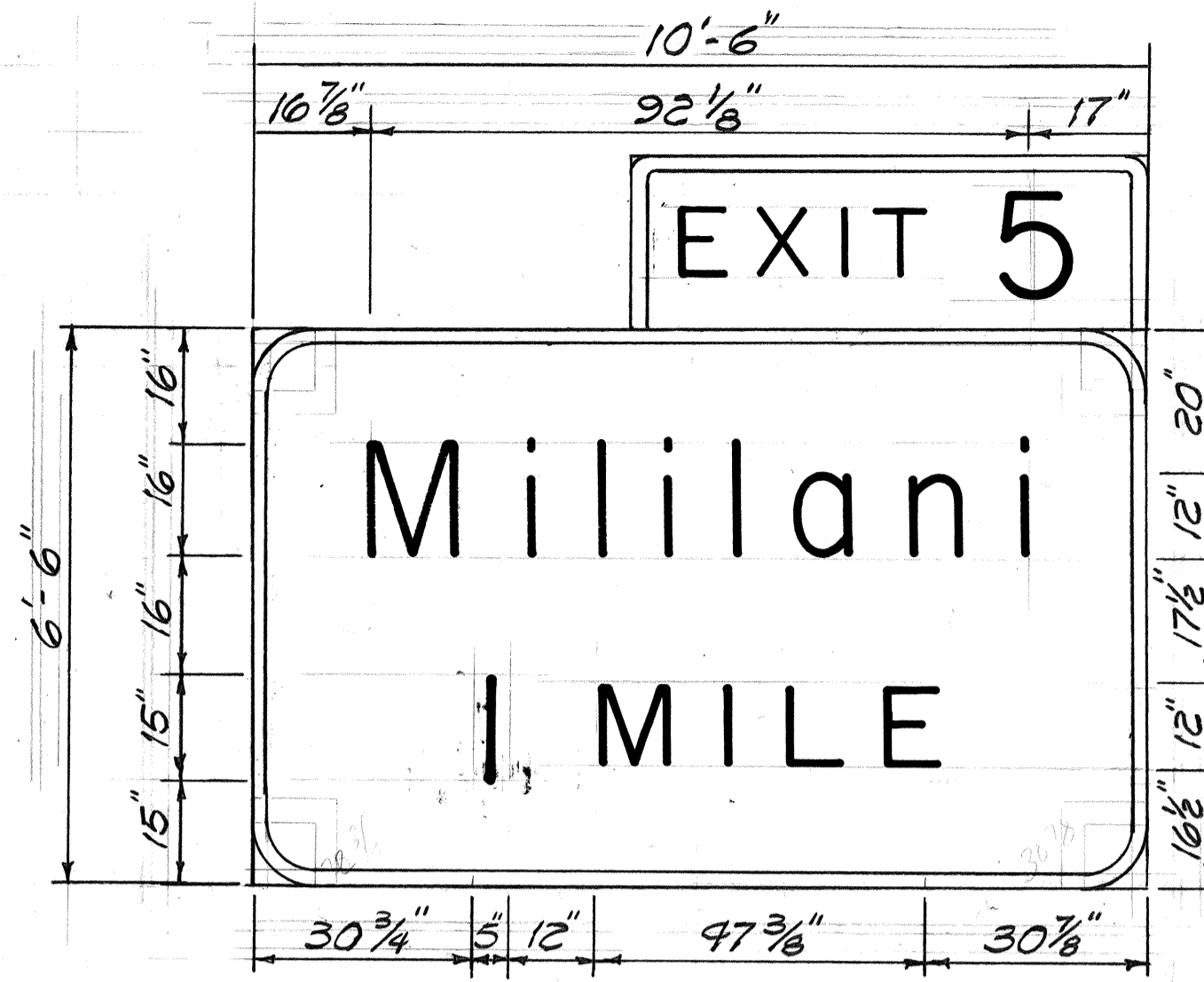
SURVEY PLOTTED BY	DATE
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PANEL LAYOUTS
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAIANA I.C.
F.A.I. PROJ. NO. 1R-H2-1(24)
Scale: As Shown Date: Apr, 1980
SHEET NO. 735 OF 45 SHEETS

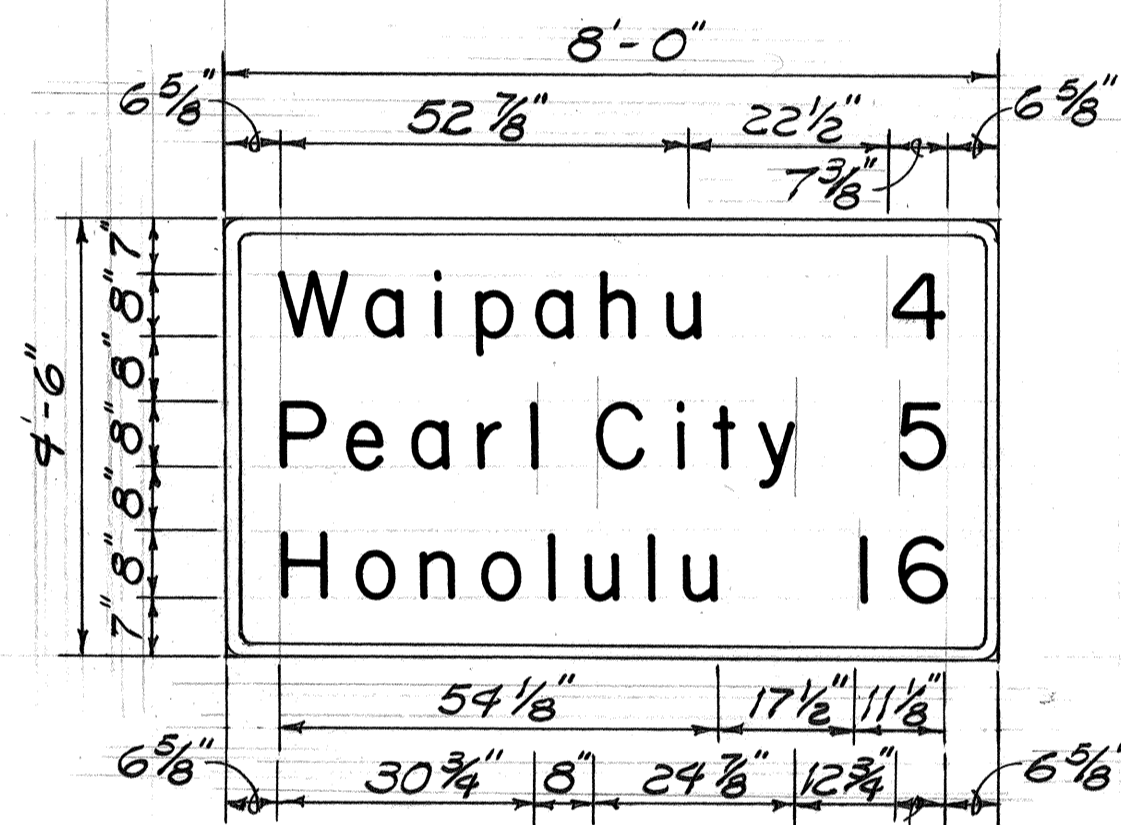
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	72	81



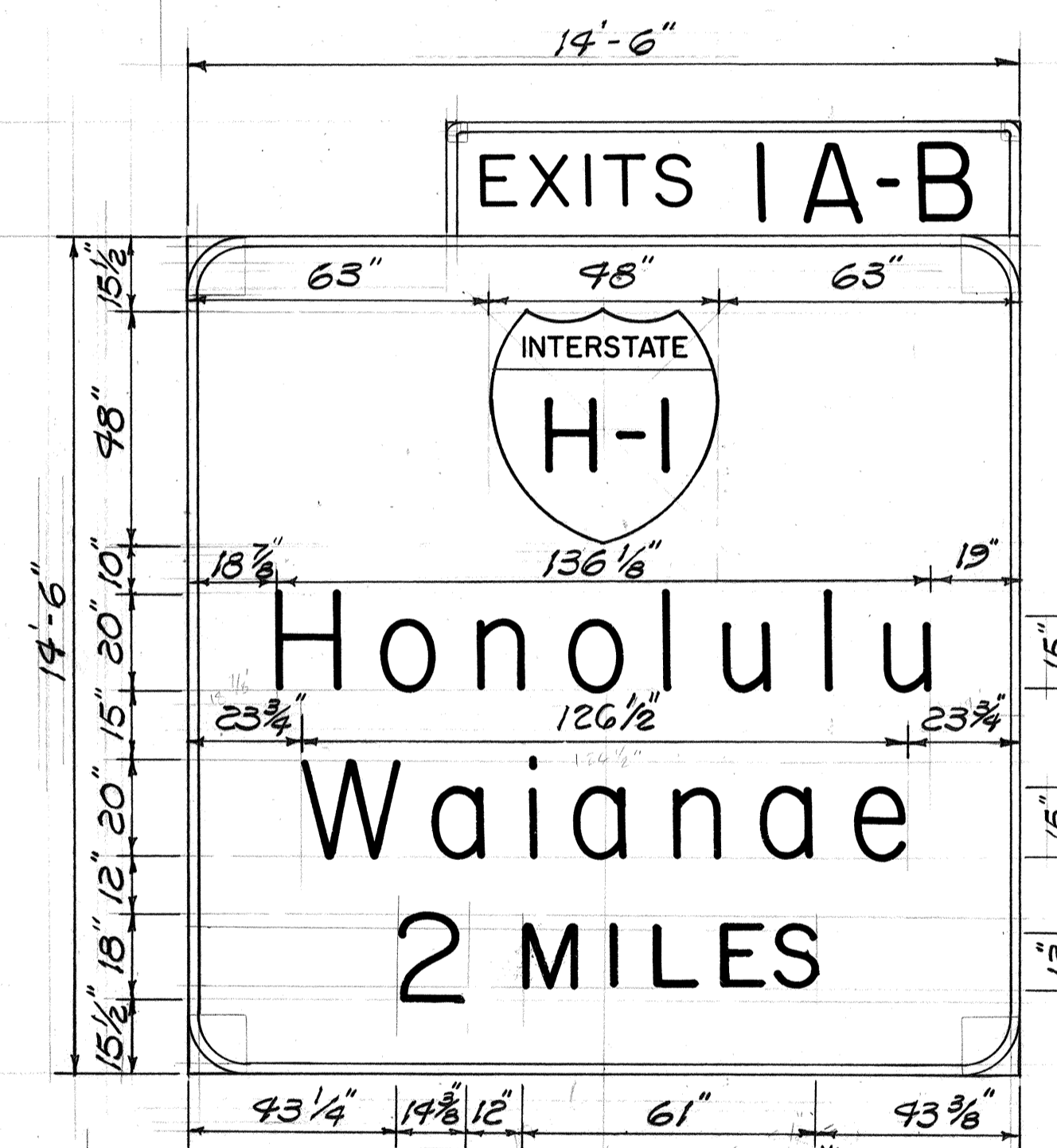
SIGN D-26



SIGN D-29

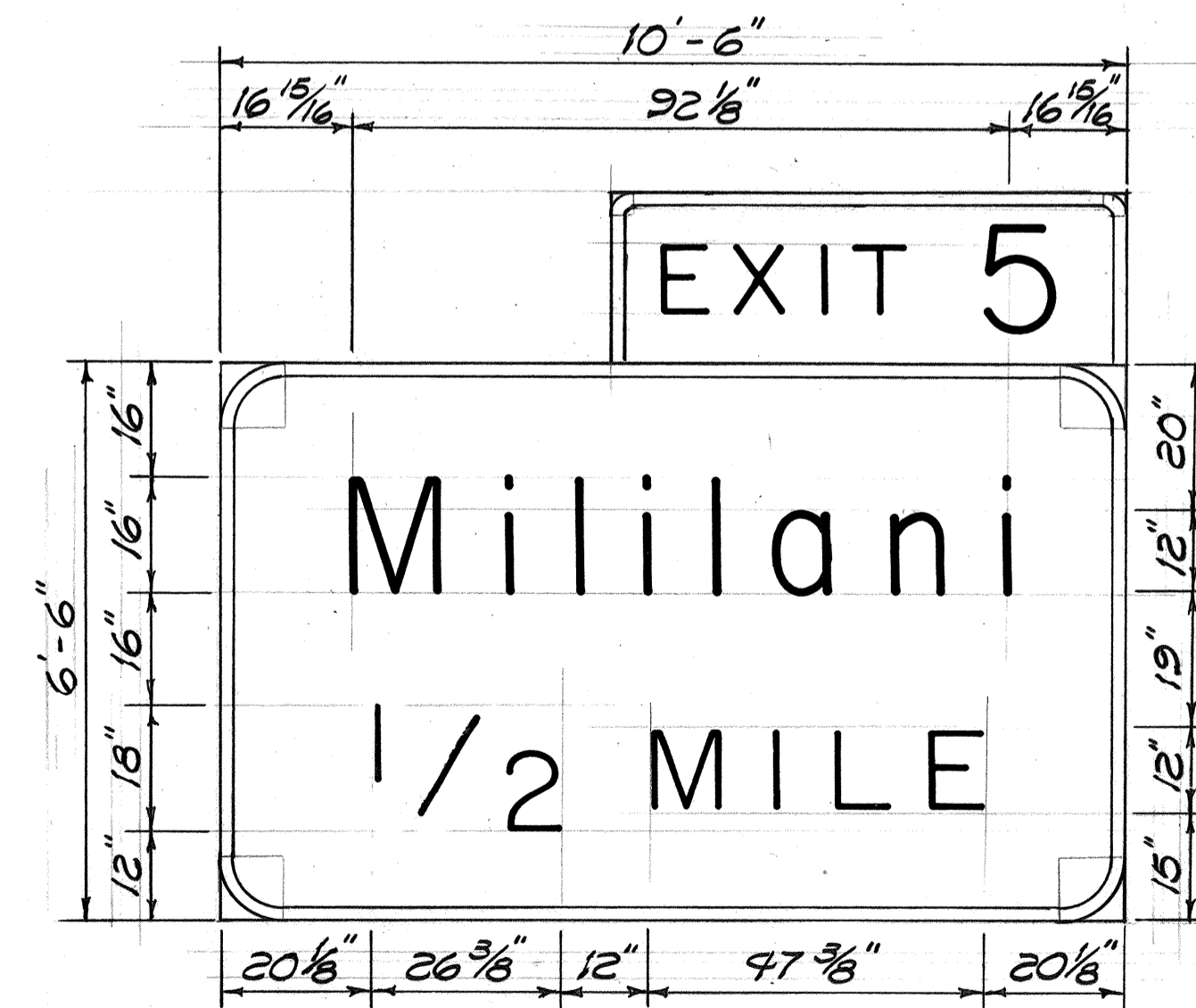


SIGN D-27

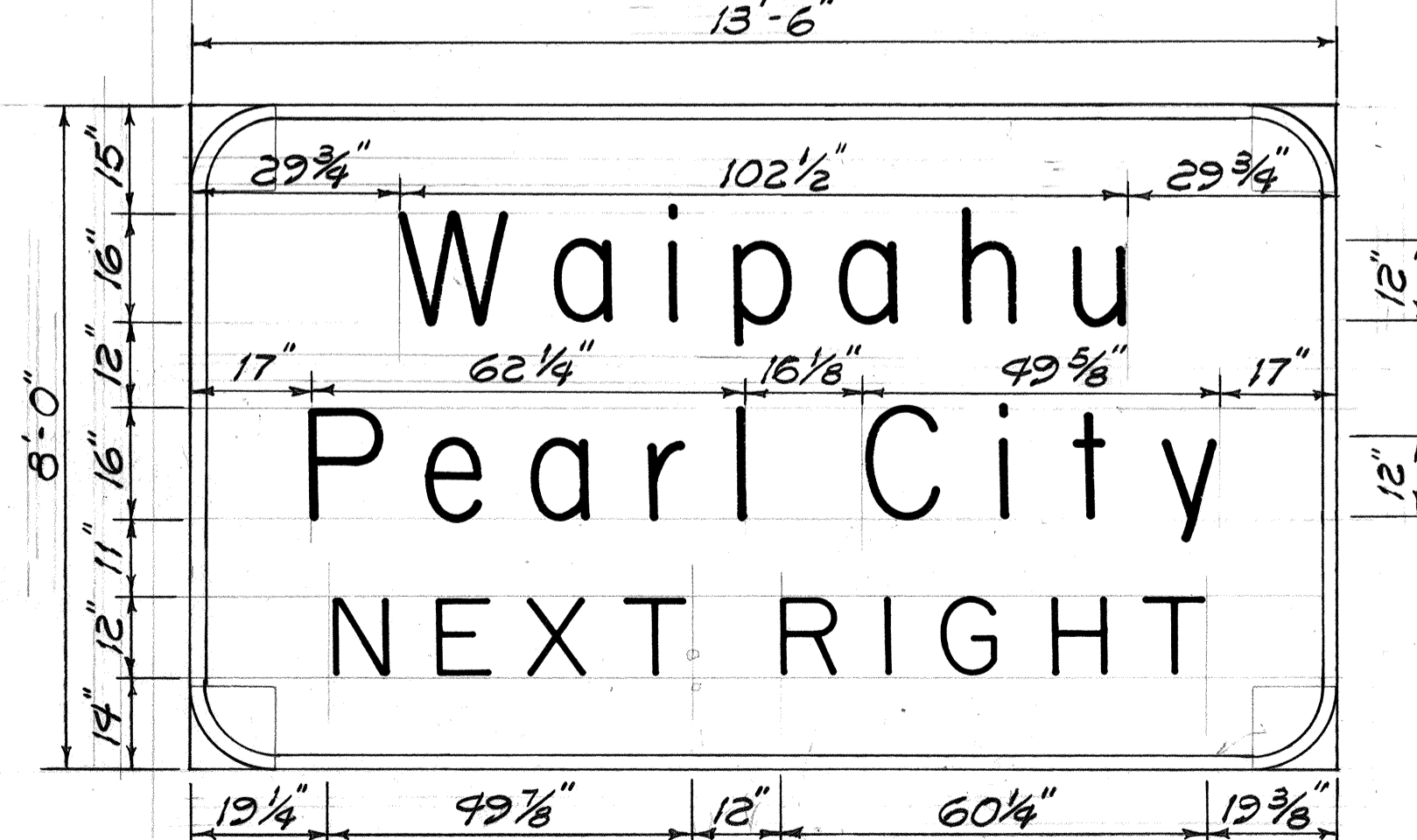


SIGN D-30*

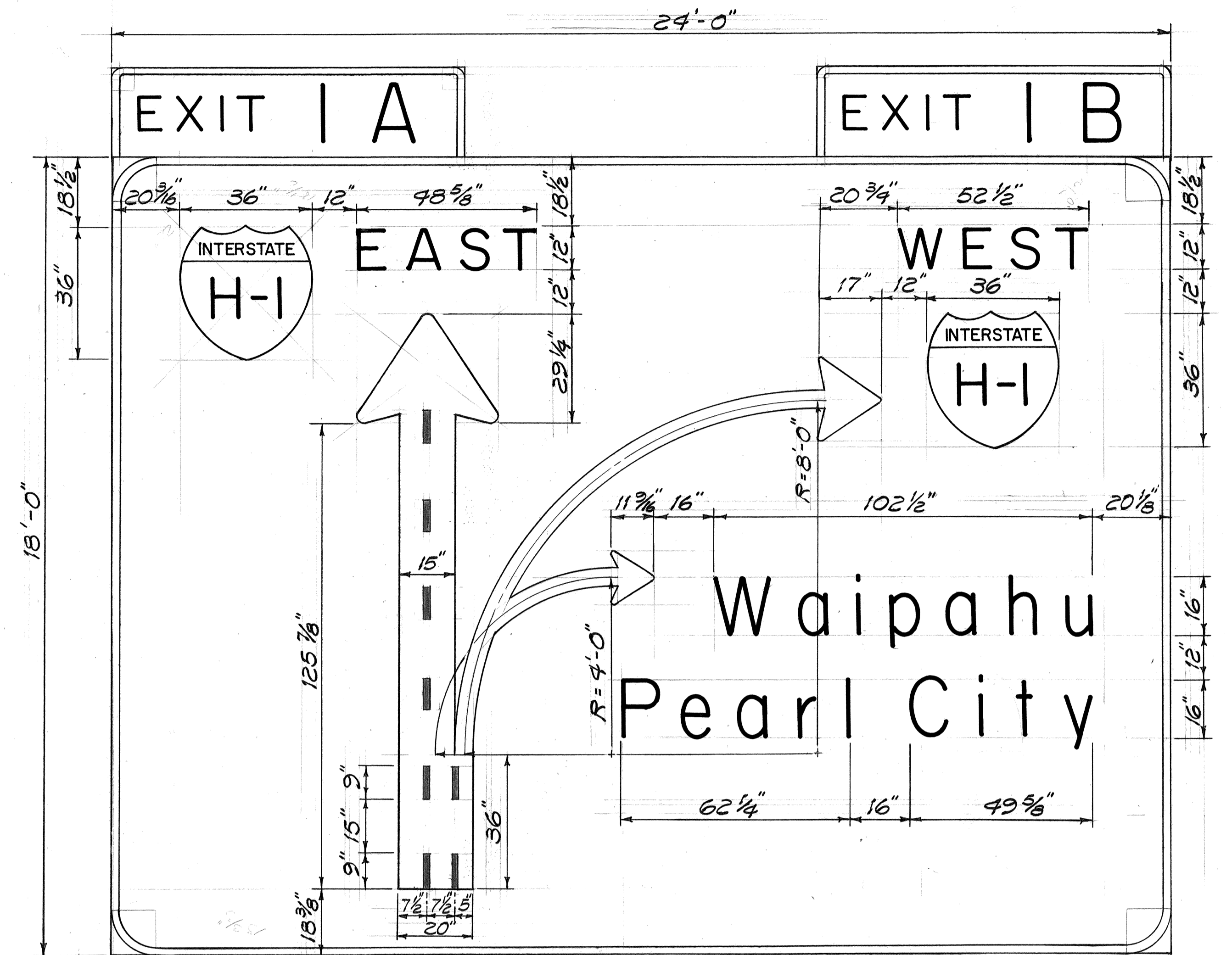
*NOTE:
Sign D-30 is Drawn to 3/8"=1'-0" Scale. All other Signs are Drawn to 1/2"=1'-0" Scale.



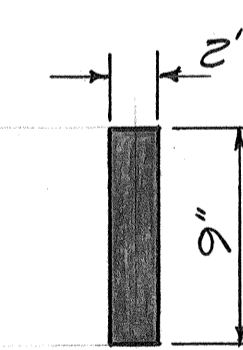
SIGN D-28



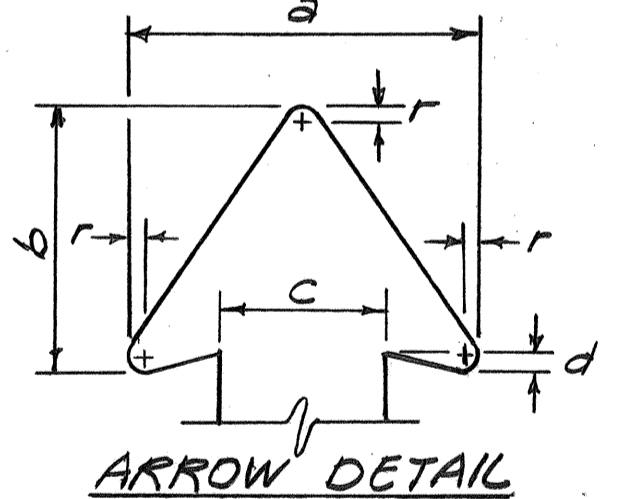
SIGN D-32 & D-36



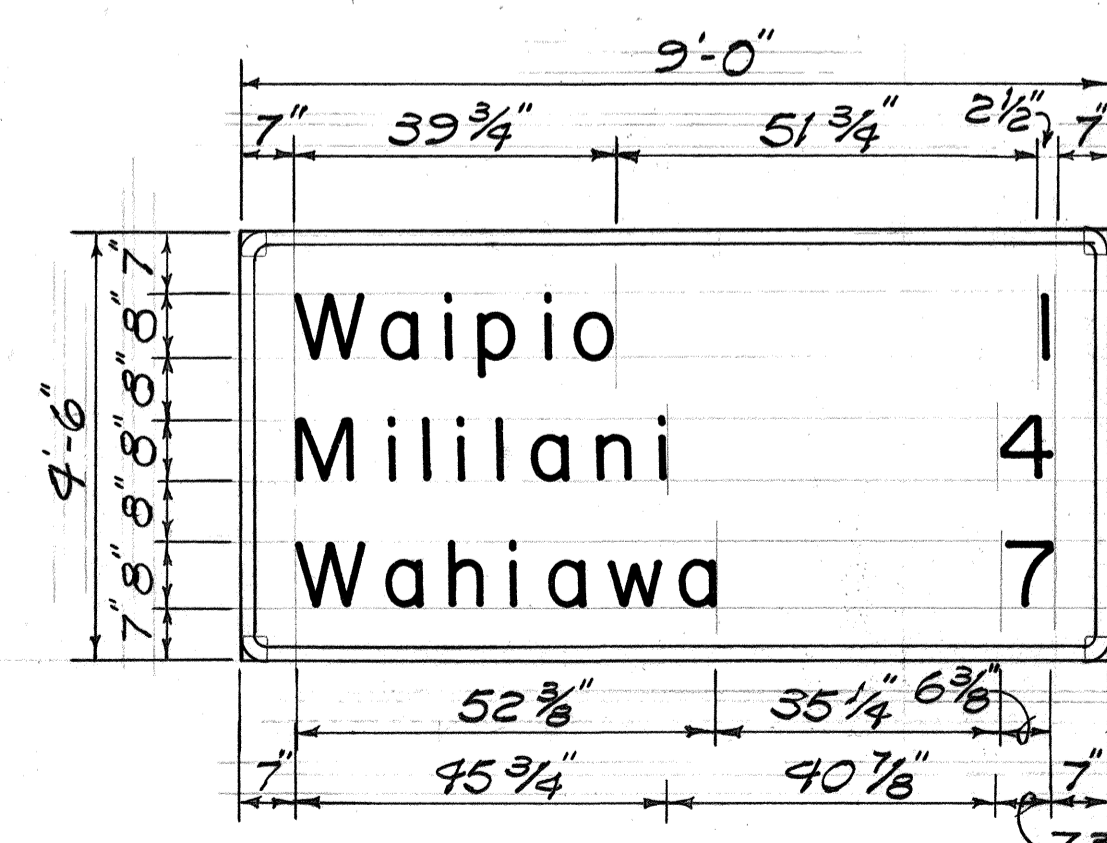
SIGN D-34



LANE LINE DETAIL
Black Sheeting on Demountable Aluminum Cutouts Mounted on White Background



ARROW DIMENSIONS (Inches)				
a	b	c	d	r
38 1/4	29 1/4	18	2 1/8	2 3/8
30 1/4	23 1/8	12	2 1/4	1 5/8
22 1/4	17	6	1 3/4	1



SIGN D-35

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PANEL LAYOUTS

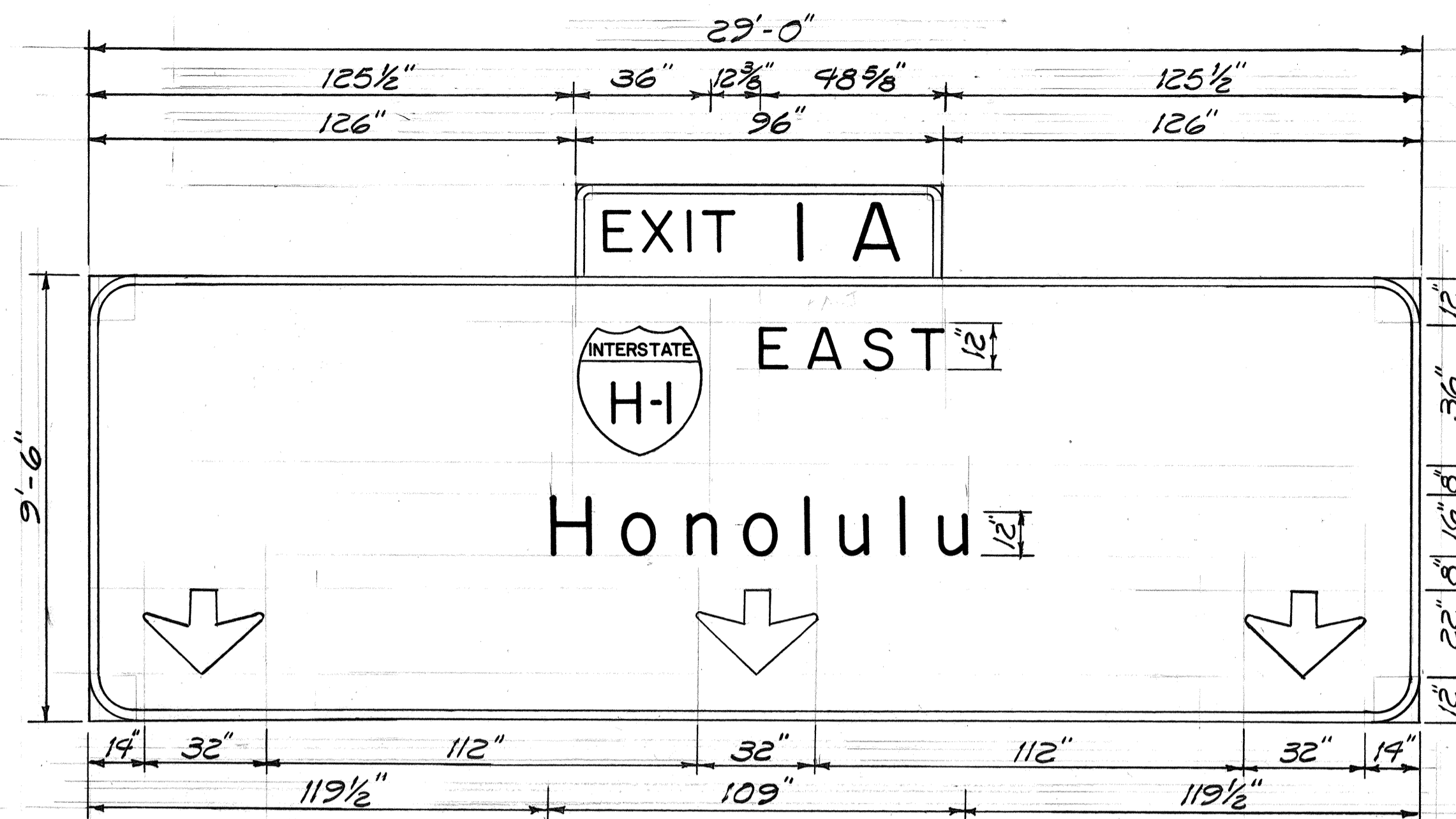
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAIHAWA I.C.
F.A.I. PROJ. NO. 1R-H2-1(24)

Scale: As Shown Date: Apr., 1989

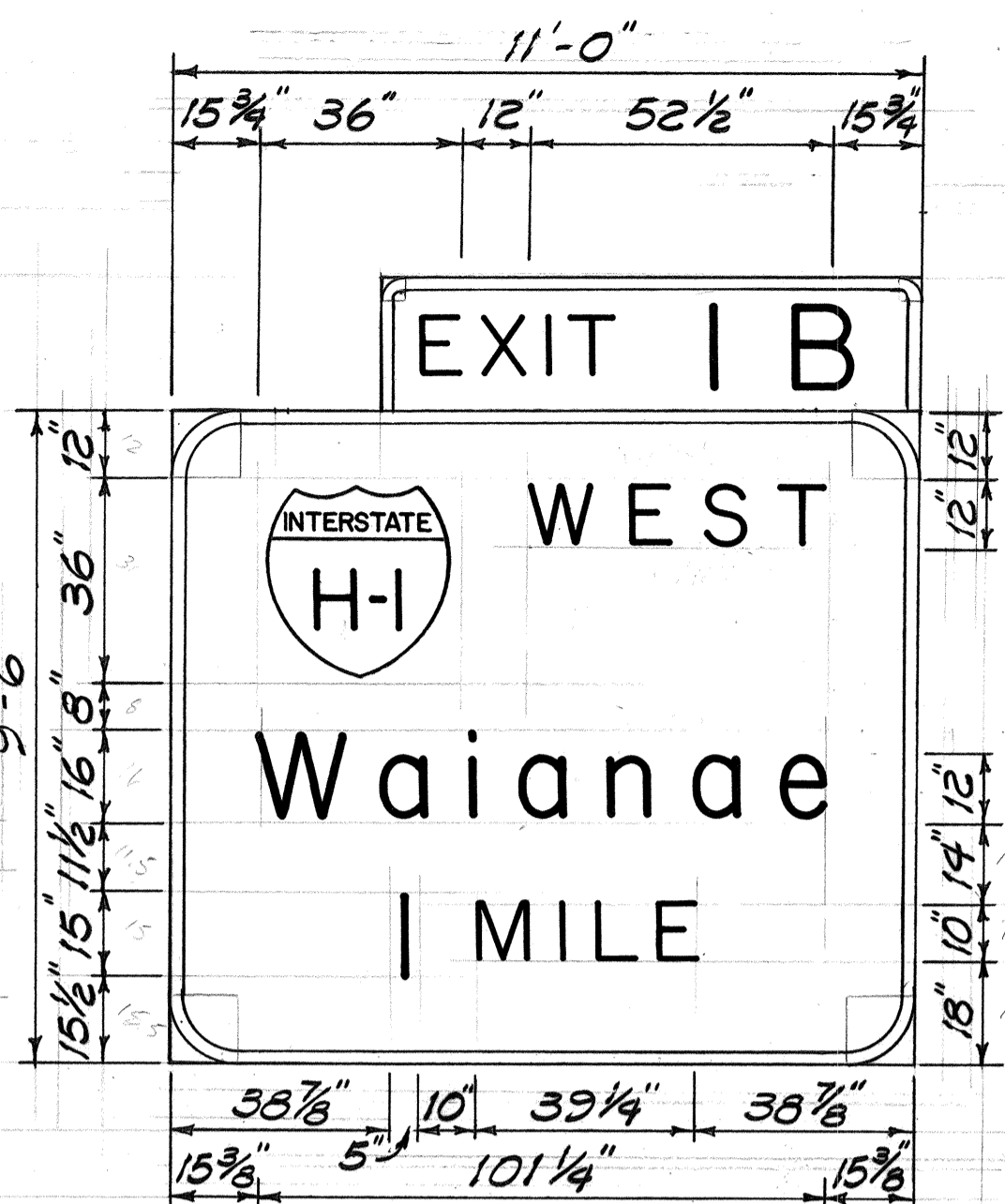
SHEET No. T36 OF 45 SHEETS

DATE _____
DESIGNED BY _____
CHECKED BY _____

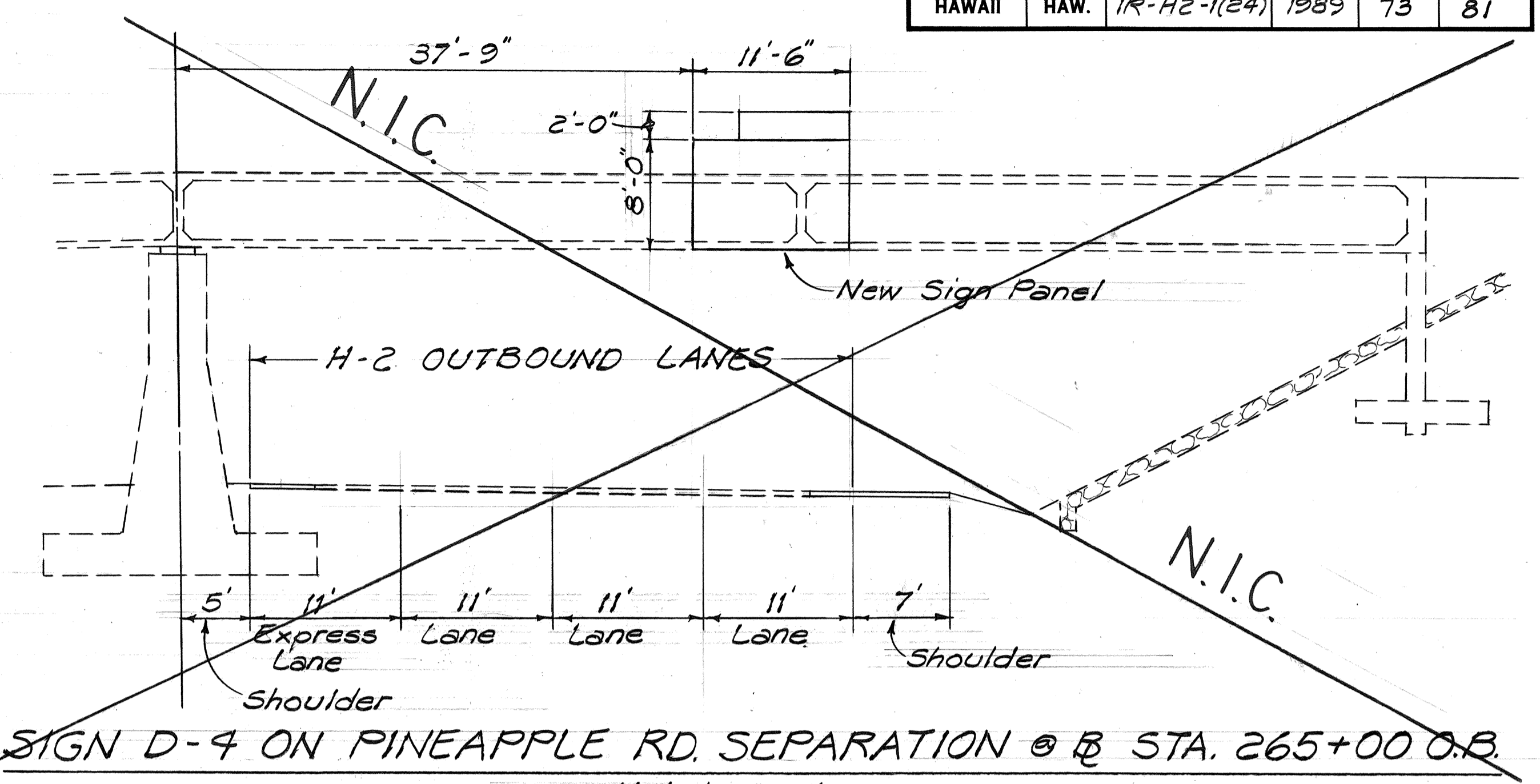
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	73	81



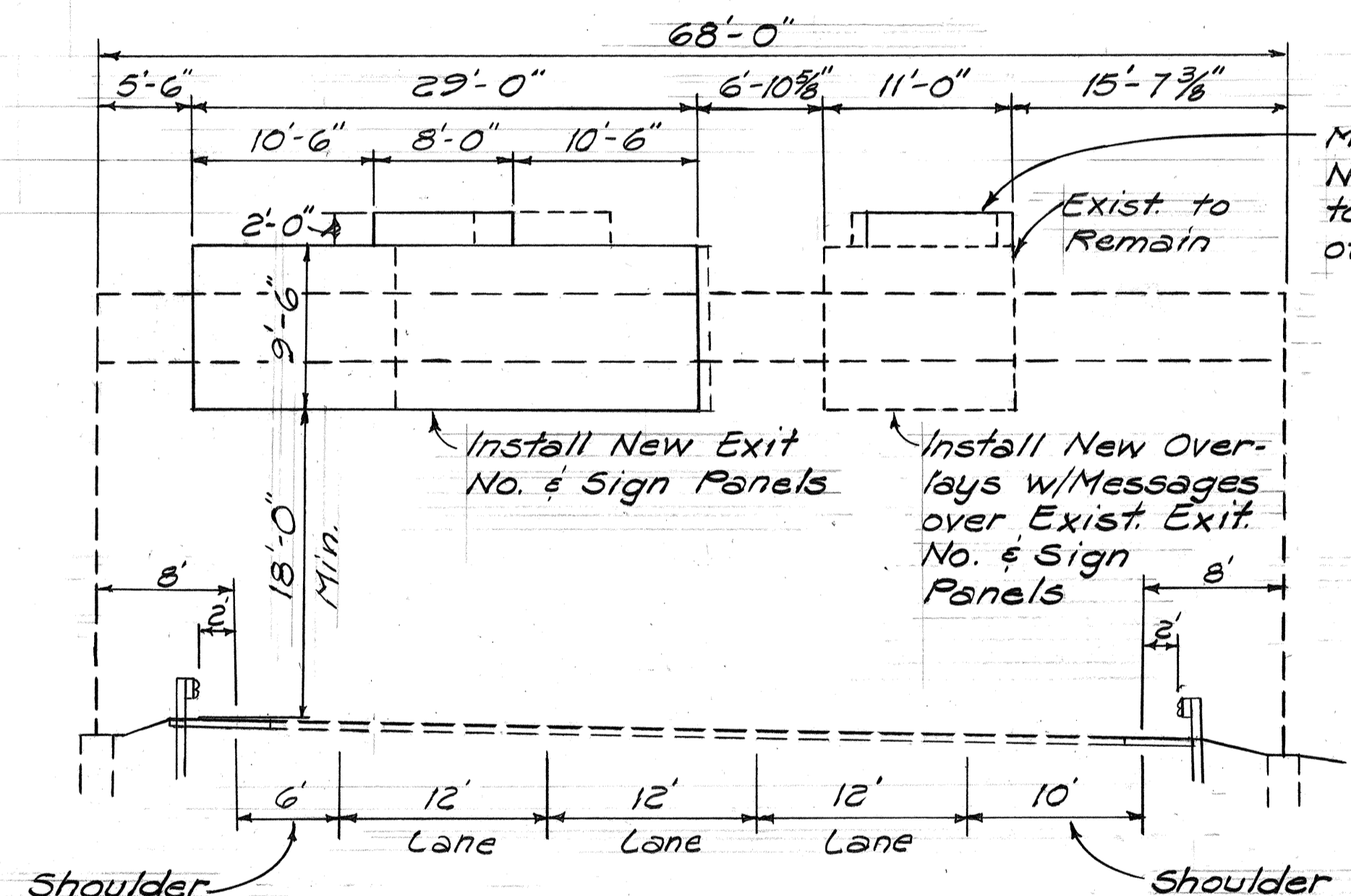
SIGNS D-31, D-33, & E-6
Scale: 3/8" = 1'-0"



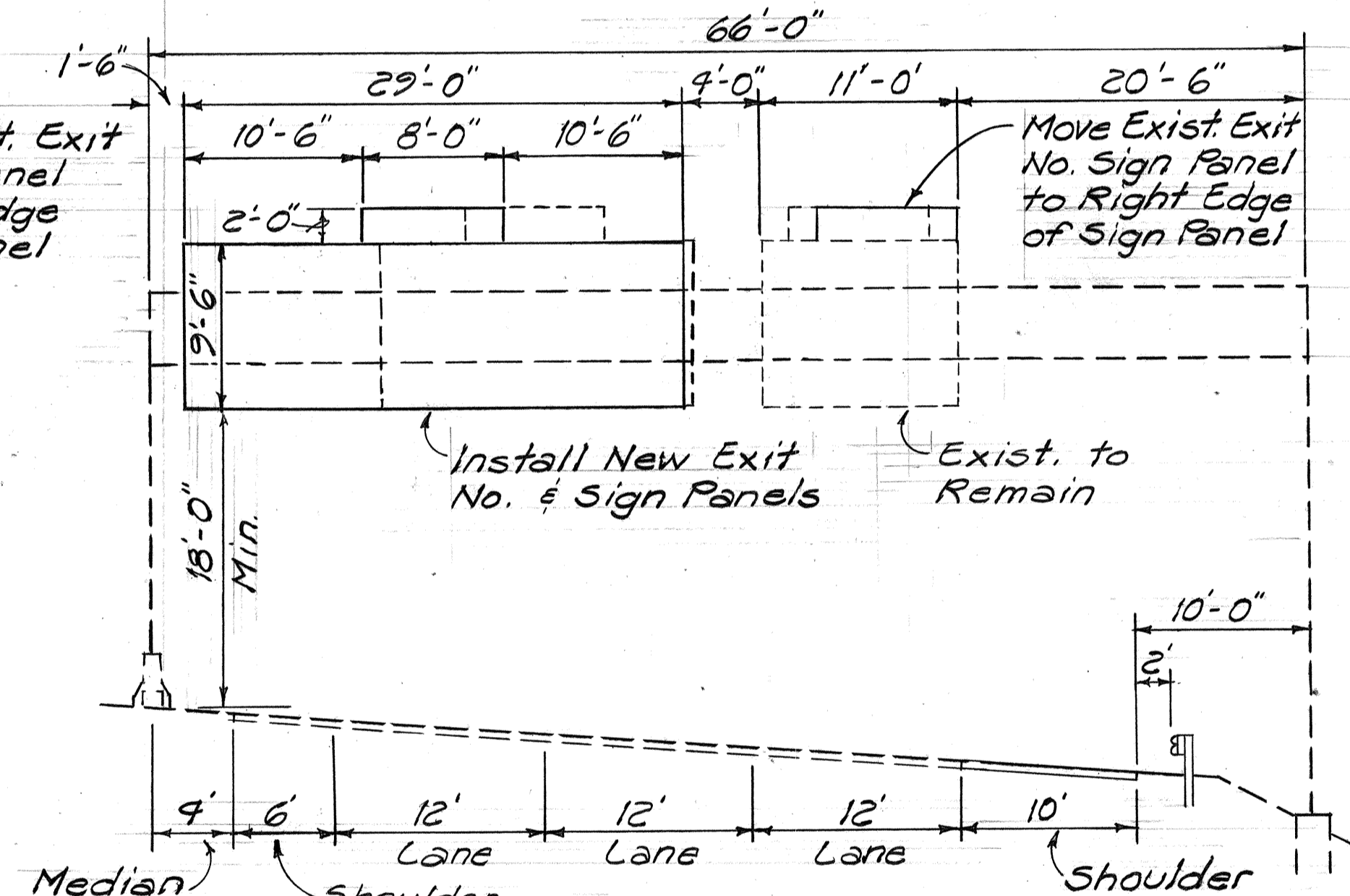
SIGN D-31
Scale: 3/8" = 1'-0"



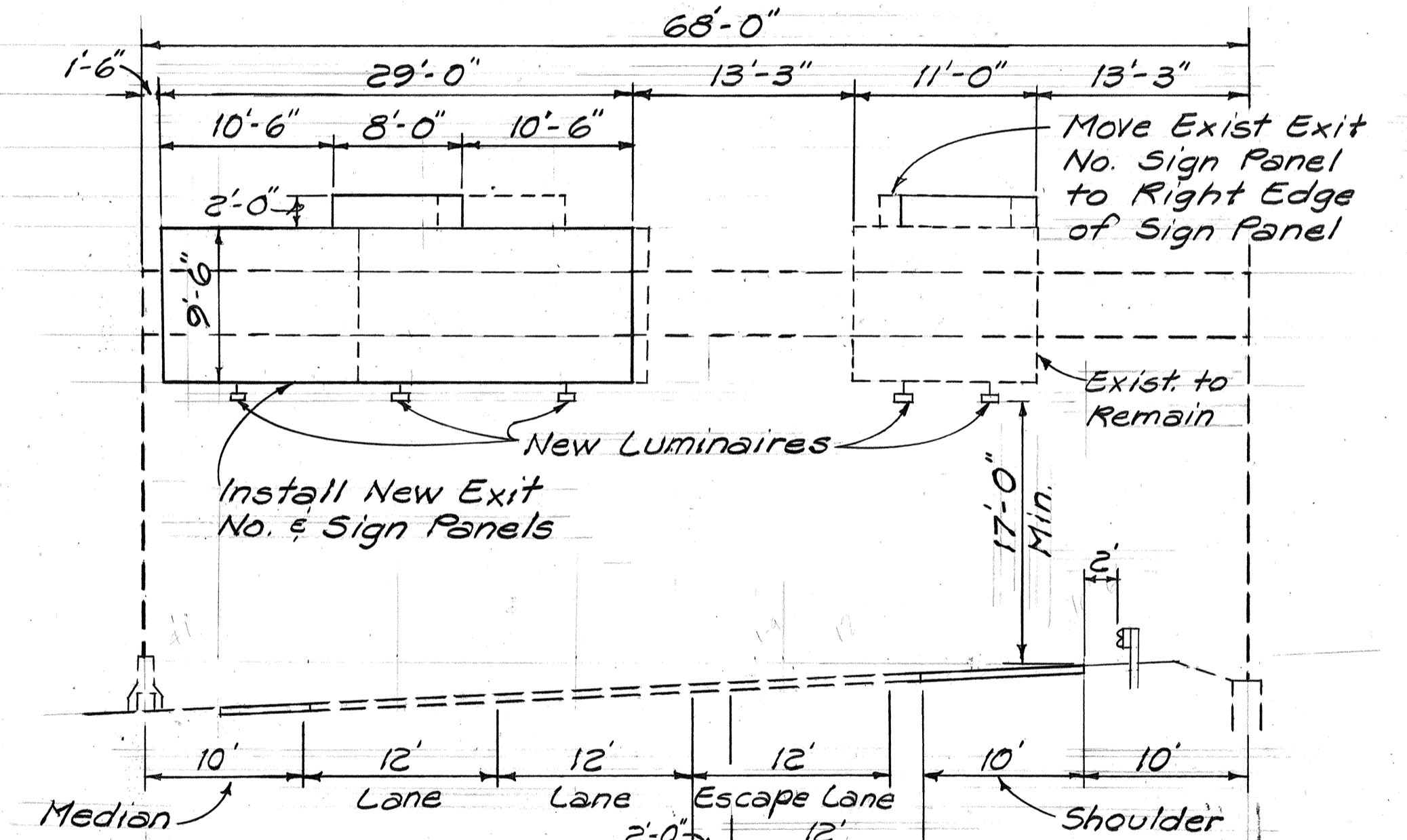
SIGN D-4 ON PINEAPPLE RD. SEPARATION @ STA. 265+00 O.B.
Not to Scale



SIGN ASSEMBLY D-31
@ Sta. 376+00 I.B.
Not to Scale



SIGN ASSEMBLY D-33
@ Sta. 415+00 I.B.
Not to Scale



SIGN ASSEMBLY E-6
@ Sta. 432+95 I.B.
Not to Scale

- NOTES:**
1. Removal and disposal of existing overhead sign panels, luminaires and supports will not be paid for separately, but shall be considered incidental to Item No. G21.0100-Panel for Expressway Sign.
 2. Connections of new sign luminaires to existing Transformer and ballast housing and all incidentals parts and services necessary will not be paid for separately but shall be considered as incidental to replacement of existing luminaires with 175-watt metal halide luminaires for expressway sign lighting.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

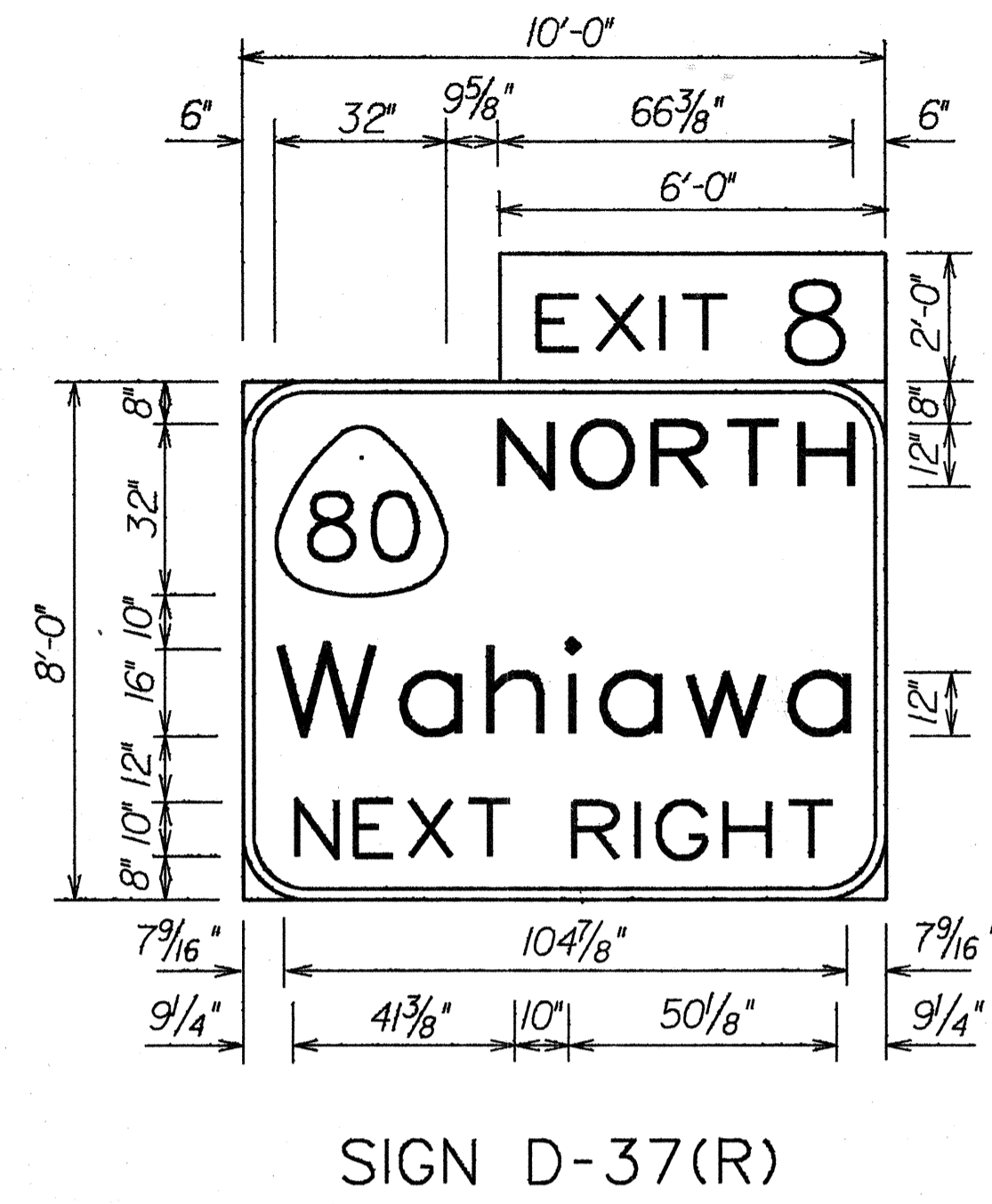
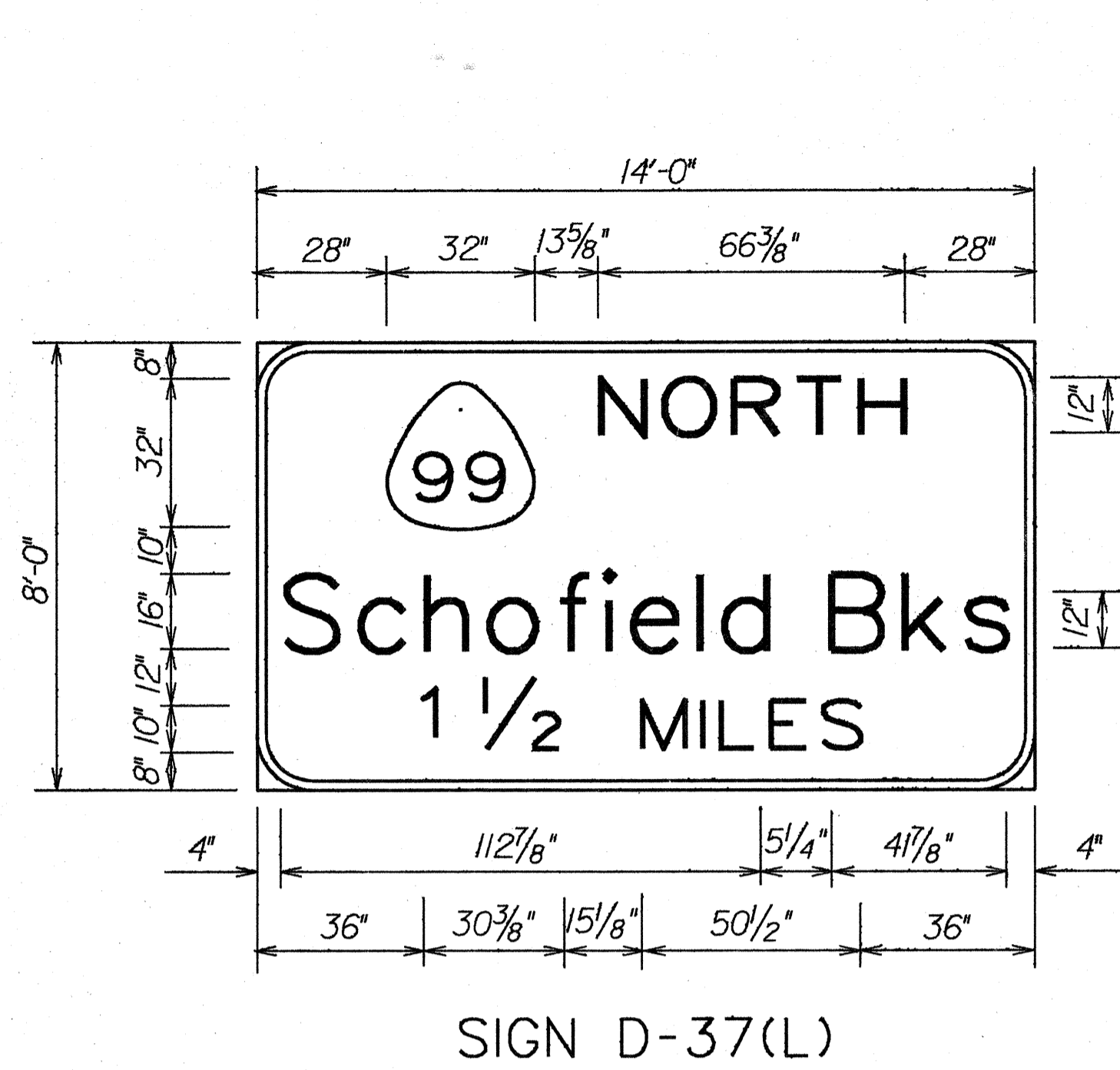
PANEL & SIGN FRAME LAYOUTS

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIKAWA I.C. TO WAIKAWA I.C.
F.A.I. PROJ. NO. 1R-H2-1(24)

Scale: As Shown Date: Apr., 1989

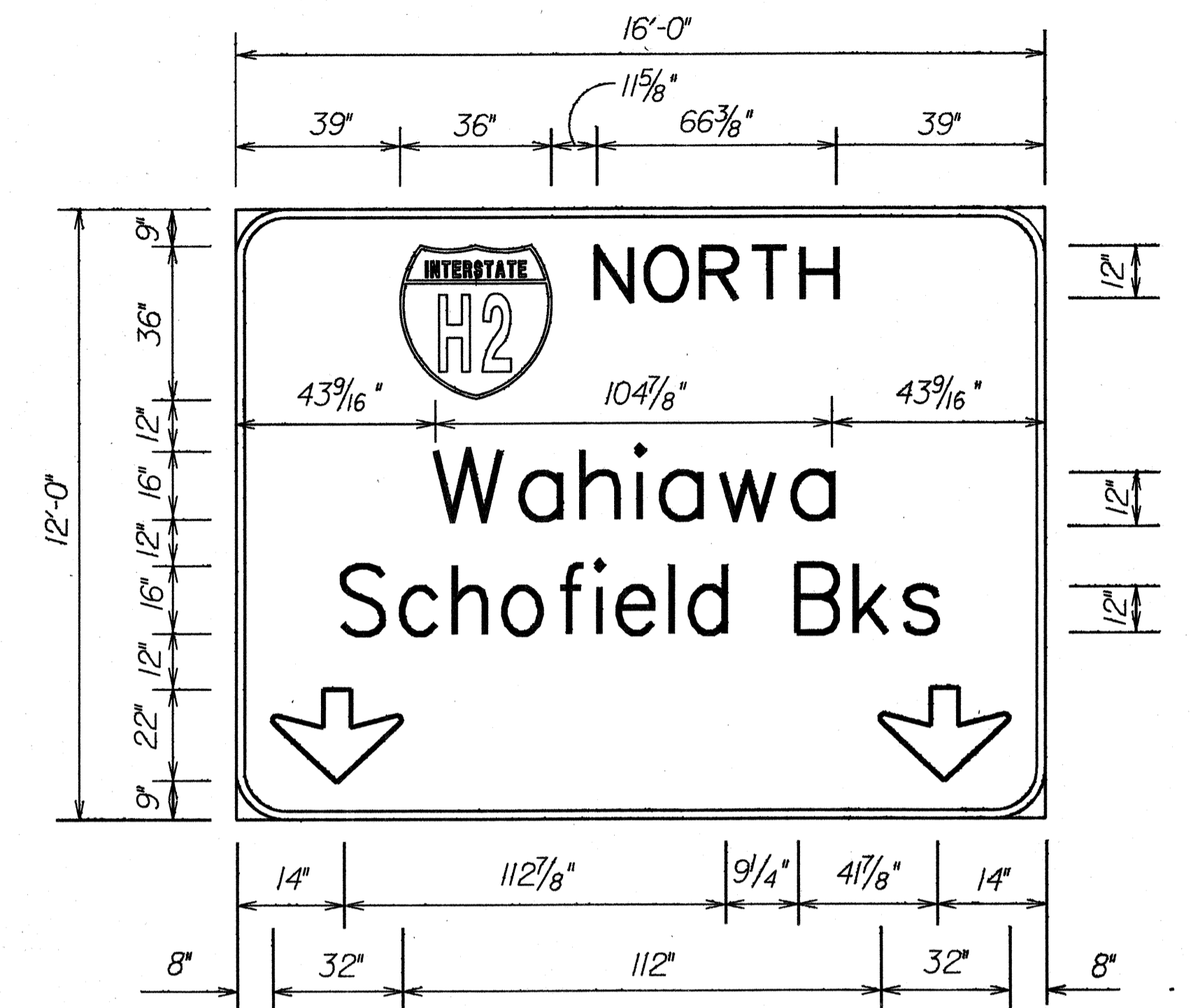
SHEET No. 73 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H-2-(124)	1989	C.O. 73 S-1	81



DESTINATION SIGNS
ON GOLF COURSE ROAD SEPARATION
AT H-2 BASELINE STA. 99 + 07.36 O.B.

Scale: $\frac{3}{8}$ "=1'-0"



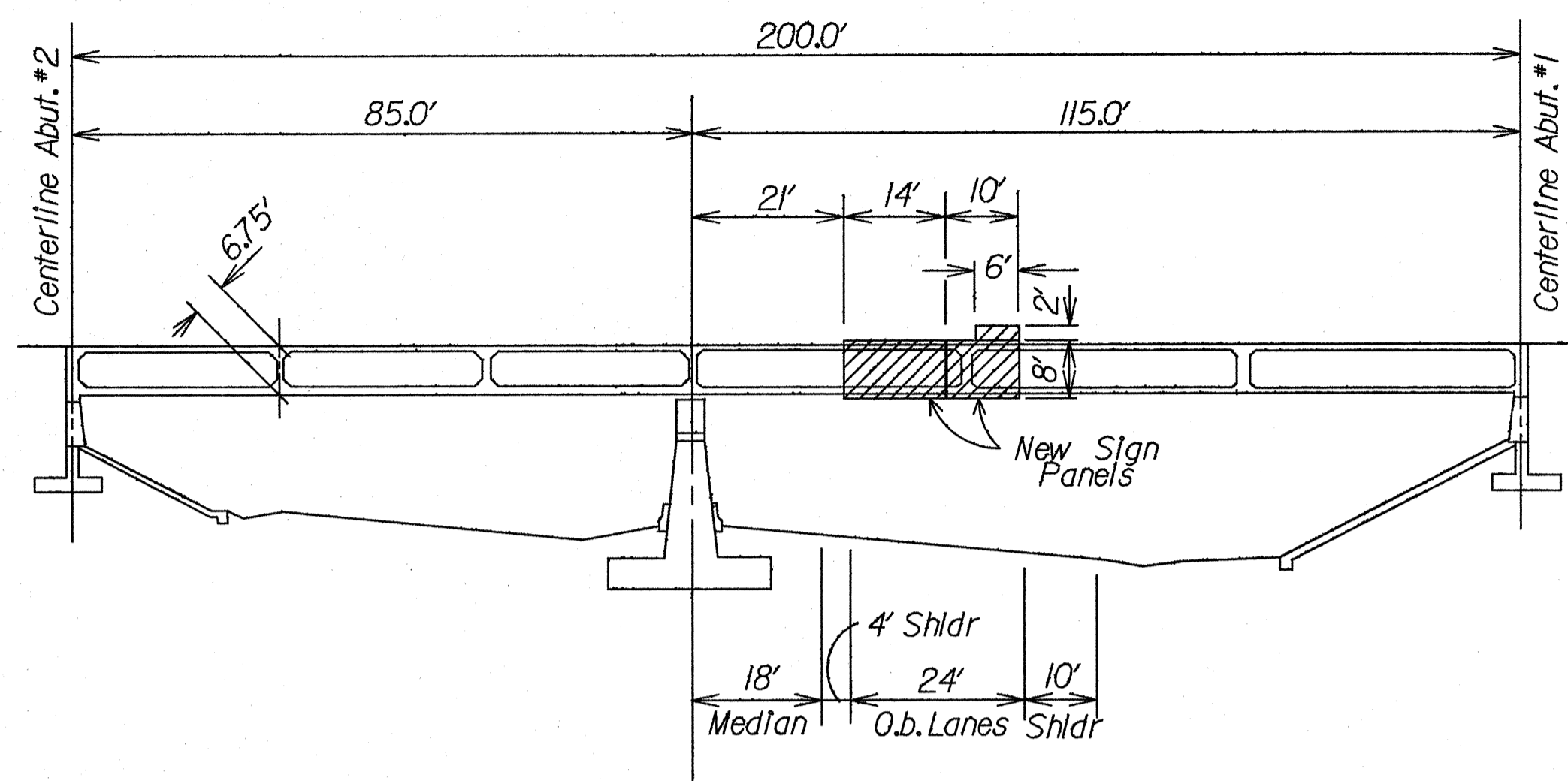
ON MEHEULA PARKWAY SEPARATION
AT H-2 BASELINE STA. 190 + 15 O.B.

Scale: $\frac{3}{8}$ "=1'-0"

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

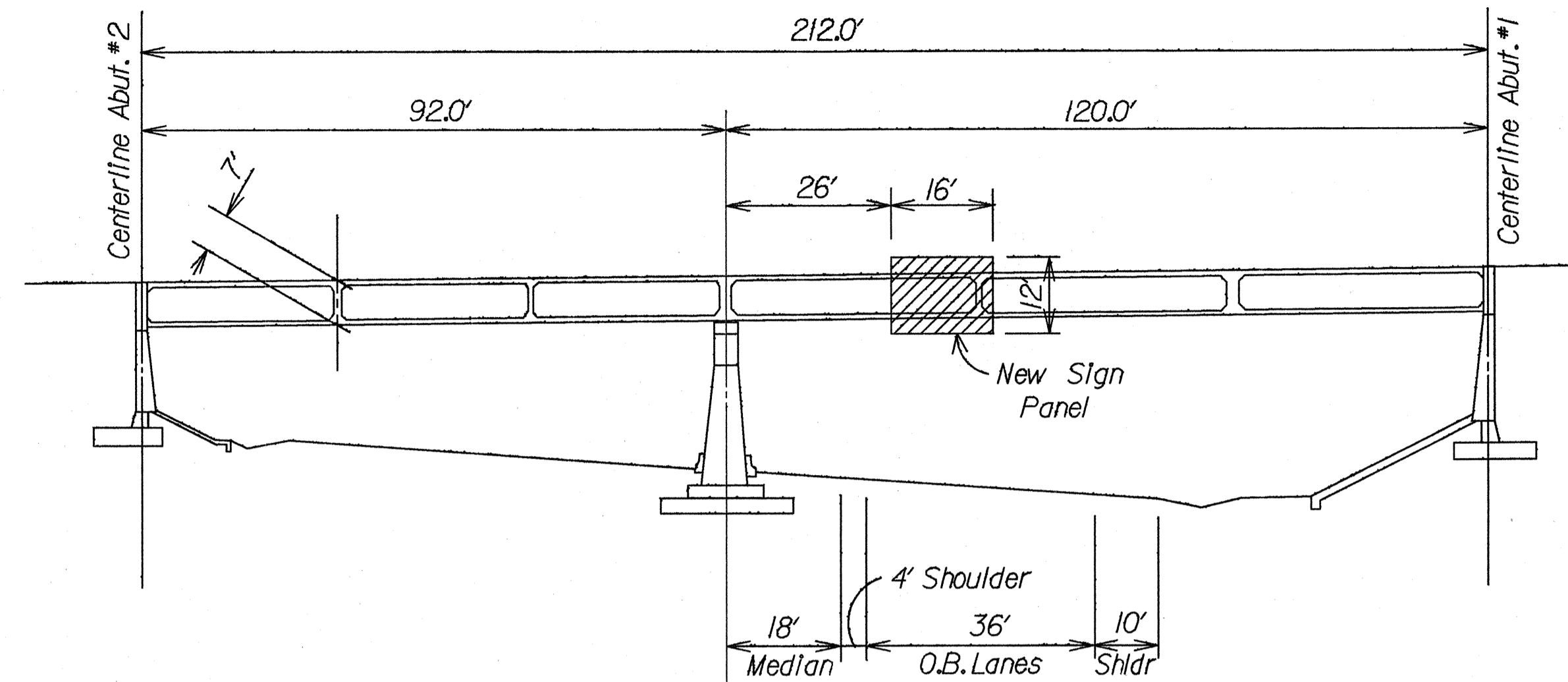
7/21/89	Additional Destination Sign Details
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SIGN PANEL LAYOUT	
INTERSTATE ROUTE H-2 IMPROVEMENTS WAHIAWA I.C. TO WAIAWA I.C. F.A.J. PROJ. NO. IR-H2-(124)	
Scale: As Shown	Date: July 21, 1989
SHEET No. T37S-1 OF 45 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H-2-1(24)	1989	C.O. 73 S-2	81



DESTINATION SIGN D-37(L & R)
ON GOLF COURSE ROAD SEPARATION
AT H-2 BASELINE STA. 99 + 07.36 O.B.

Scale: 1" = 20'



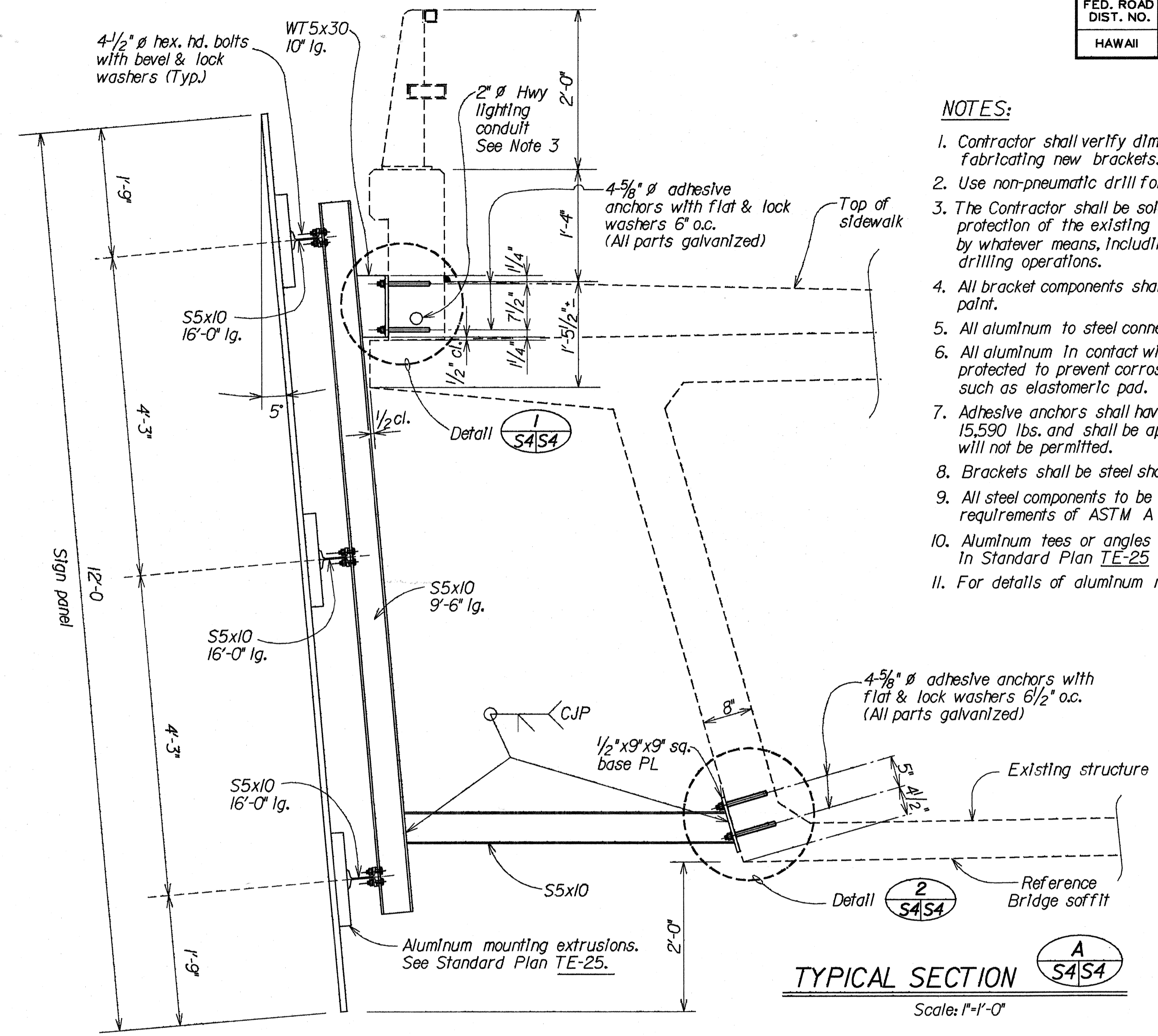
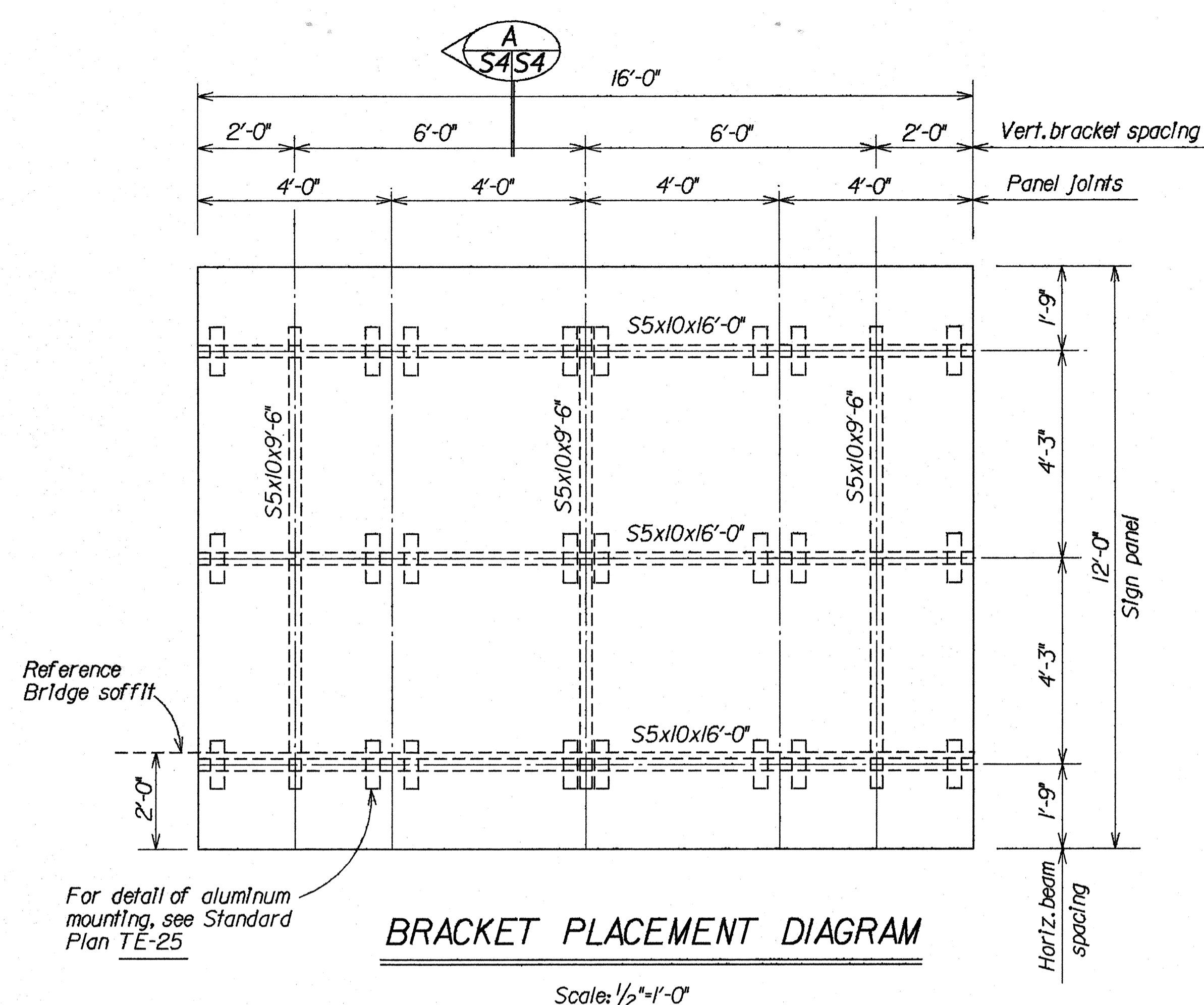
DESTINATION SIGN D-38
ON MEHEULA PARKWAY SEPARATION
AT H-2 BASELINE STA. 100 + 15 O.B.

Scale: 1" = 20'

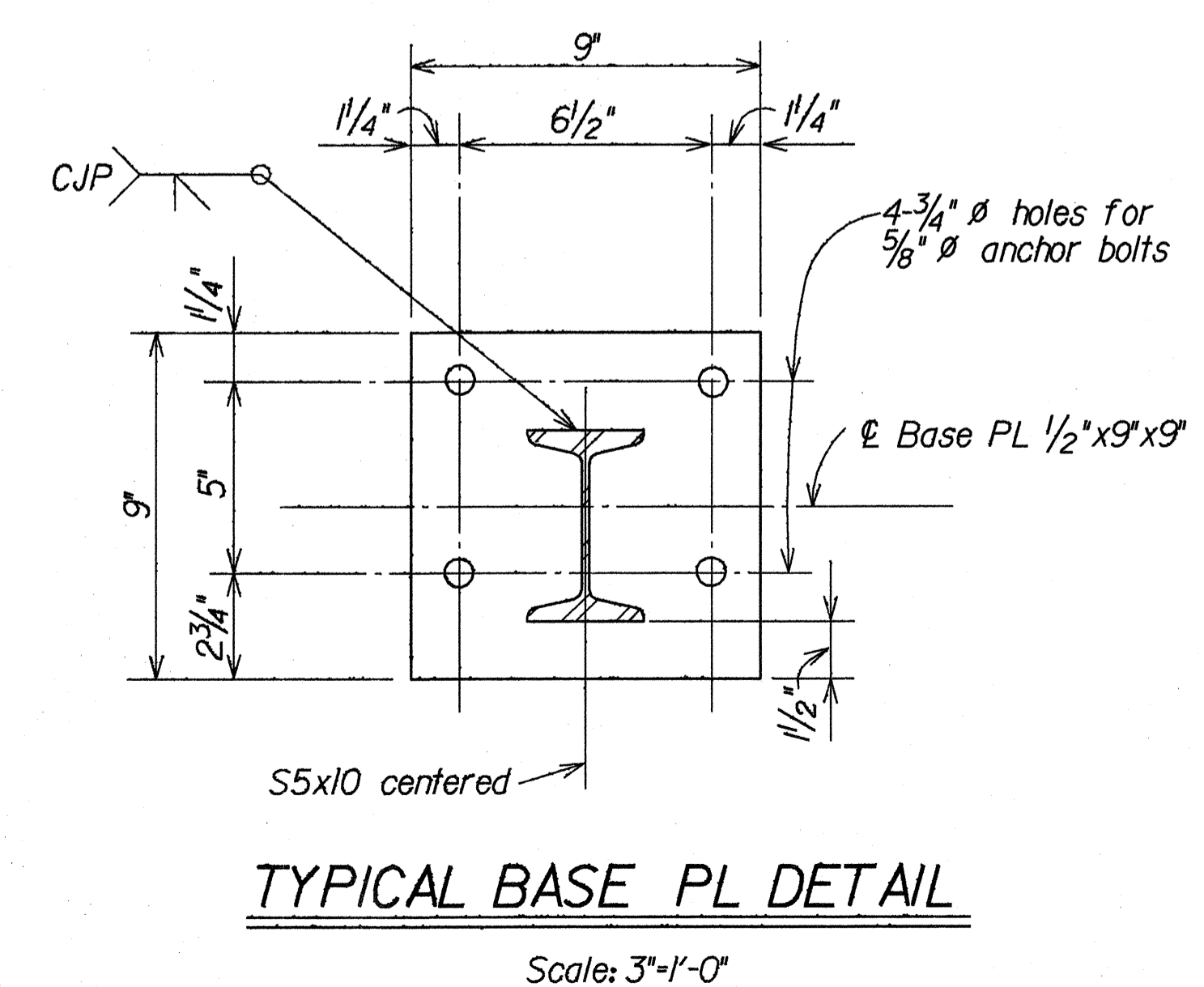
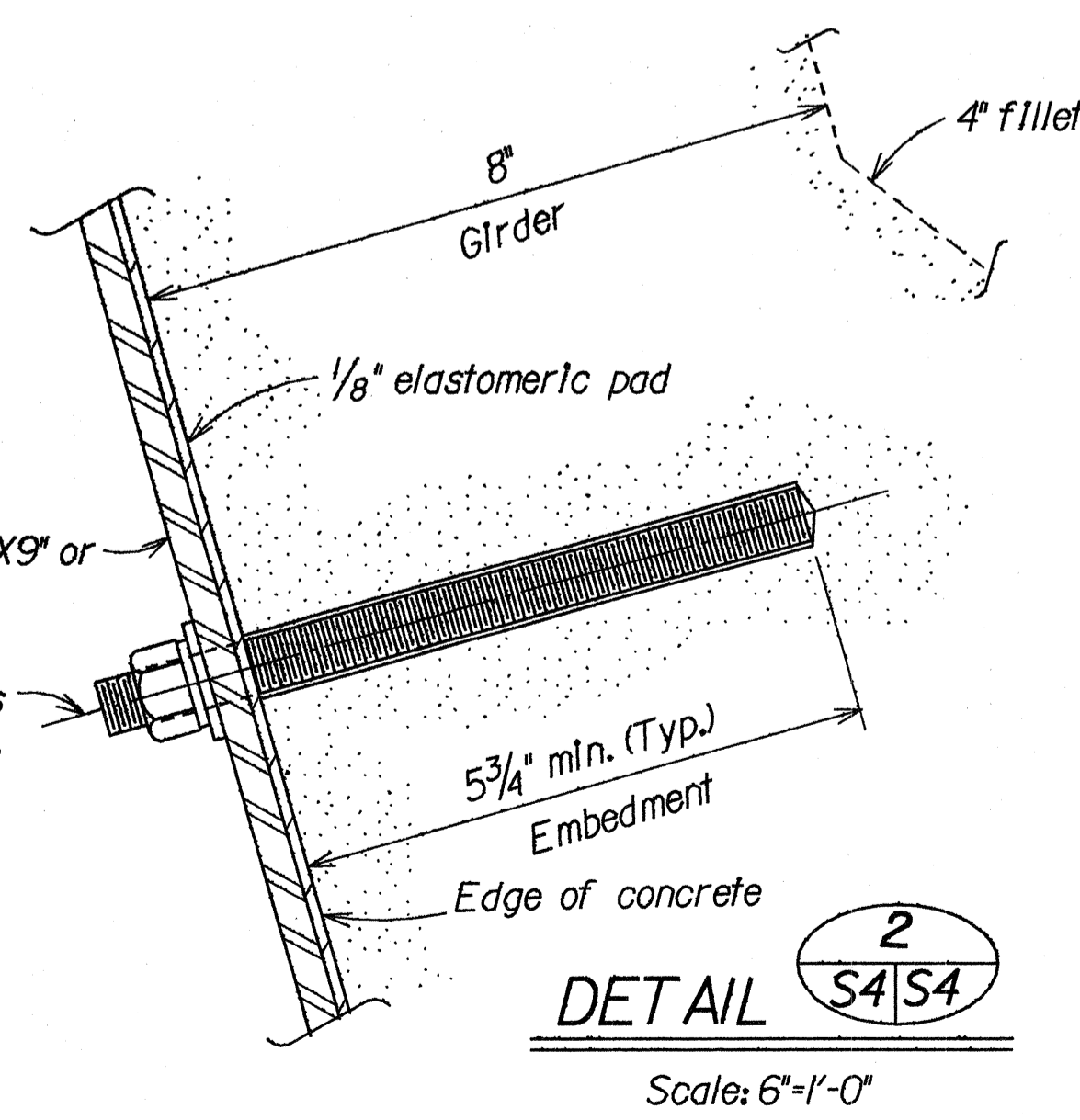
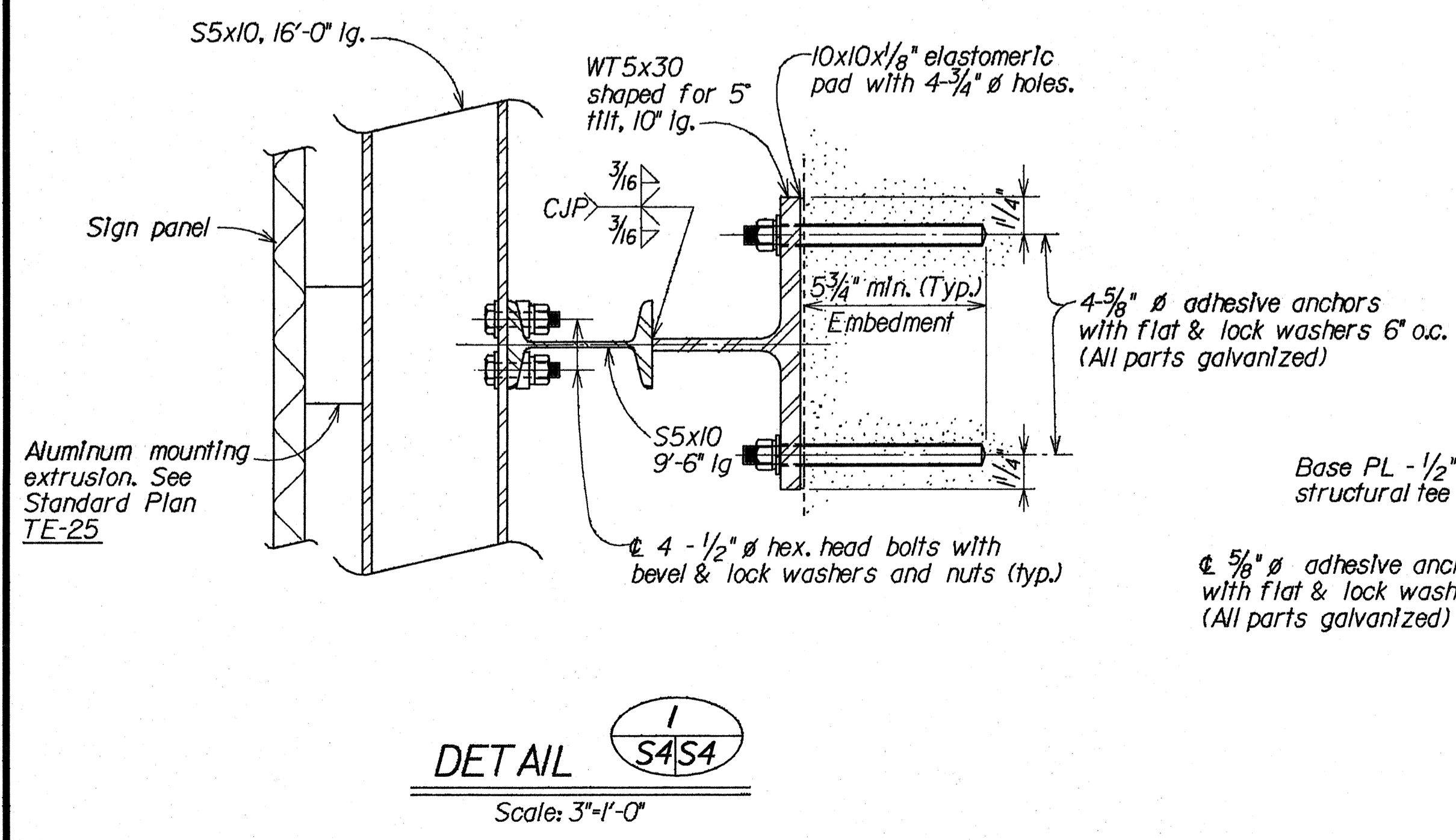
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
CHECKED BY	
DATE	
NO.	

7/21/89	Additional Frame Layout Details
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
FRAME LAYOUT	
INTERSTATE ROUTE H-2 IMPROVEMENTS	
WAHIAWA I.C. TO WAIAWA I.C.	
F.A.I. PROJ. NO. 1R-H2-1(24)	
Scale: As Shown	Date: July 21, 1989
SHEET No. T375-2 OF 45 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1990	C.O. 73S-4	81



- NOTES:**
- Contractor shall verify dimensions on existing structure before fabricating new brackets.
 - Use non-pneumatic drill for drilling anchor bolt holes.
 - The Contractor shall be solely responsible for the location and protection of the existing lighting conduit and reinforcing bars by whatever means, including the use of scanning devices, in his drilling operations.
 - All bracket components shall be painted with dark green enamel paint.
 - All aluminum to steel connectors to be stainless steel.
 - All aluminum in contact with steel or concrete to be properly protected to prevent corrosion, by means of insulating materials, such as elastomeric pad.
 - Adhesive anchors shall have a min. ultimate tension capacity of 15,590 lbs. and shall be approved by the Engineer. Mechanical anchors will not be permitted.
 - Brackets shall be steel shapes and plates conforming to ASTM A 36.
 - All steel components to be hot-dipped galvanized according to the requirements of ASTM A 123 and ASTM A 135 as applicable.
 - Aluminum tees or angles used to brace the sign panel as shown in Standard Plan TE-25 shall conform to ASTM B 308.
 - For details of aluminum mountings, see Standard Plans TE-25.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DESTINATION SIGN DETAILS
ON MEHEULA PARKWAY SEPARATION
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHANA I.C. TO WAIANA I.C.
F.A.I. Proj. No. 1R-H2-1(24)
Scale: As Shown
Aug. 1989
SHEET No. T375-4 OF 45 SHEETS

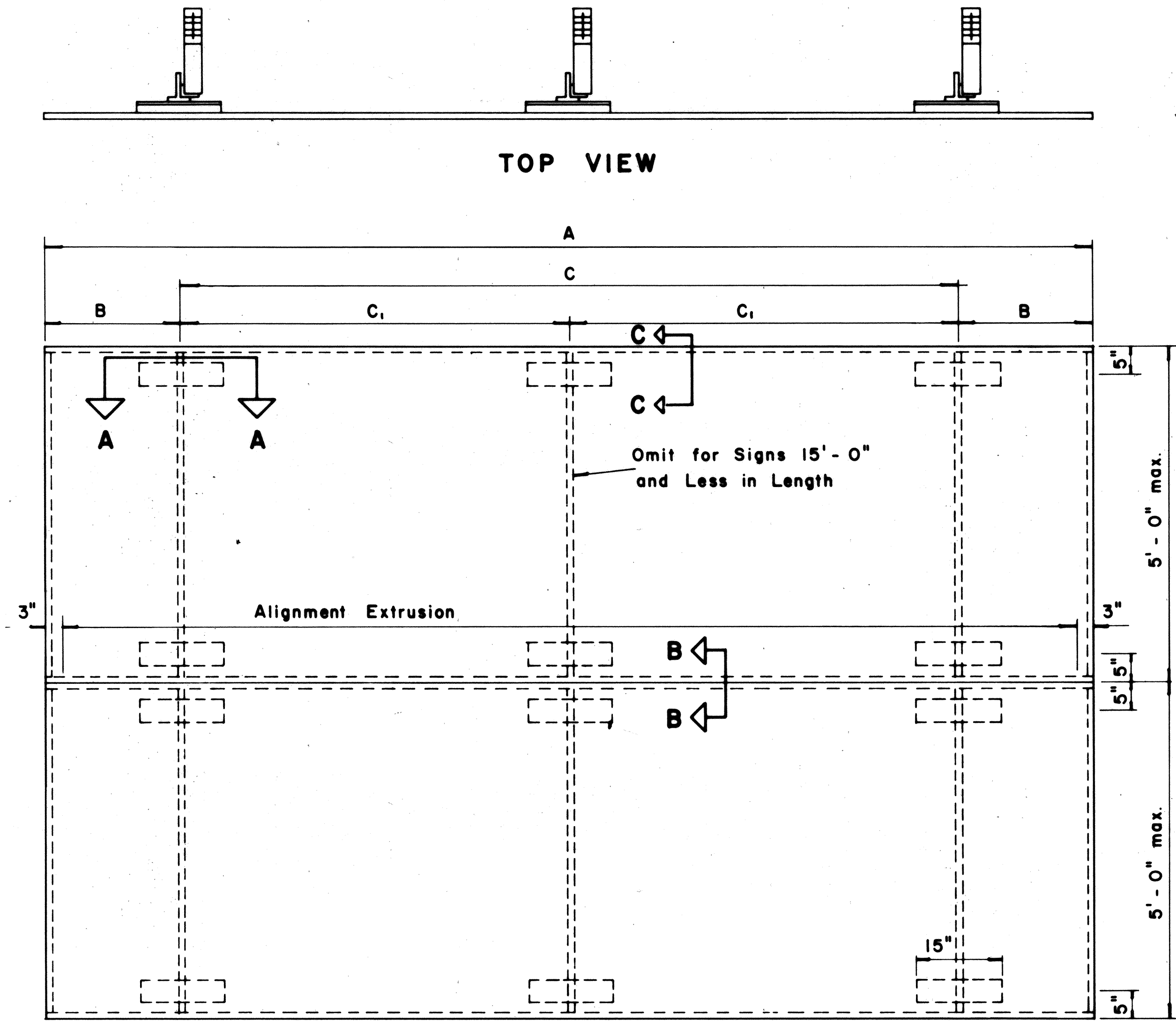
C.O. 73S-4

DATE	APR 88
DESIGNED BY	SA/020
DRAWN BY	SA/020
CHECKED BY	SA/020
APPROVED BY	SA/020
ORIGINAL PLAN	SA/020
NOTE BOOK	SA/020

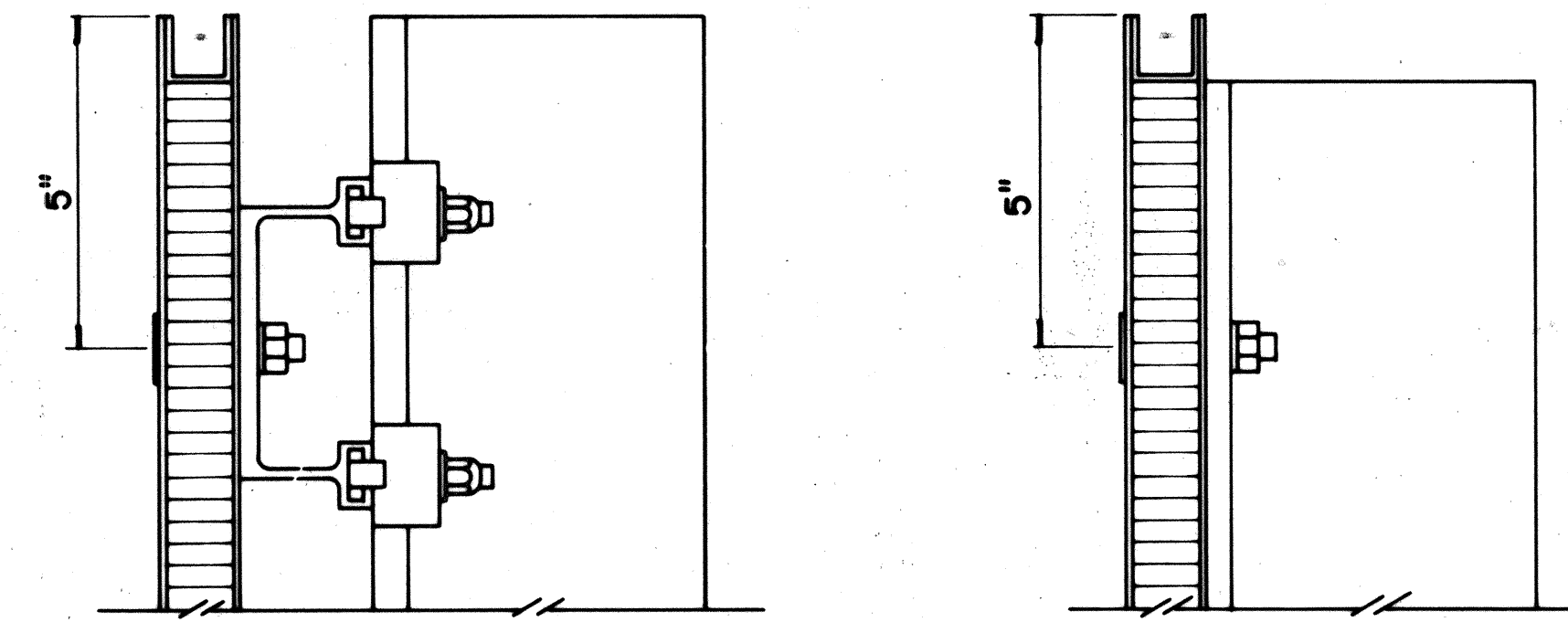
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11R-H2-1(24)	1989	74	81

(OVERHEAD SIGNS)
SUPPORT SPACING TABLE

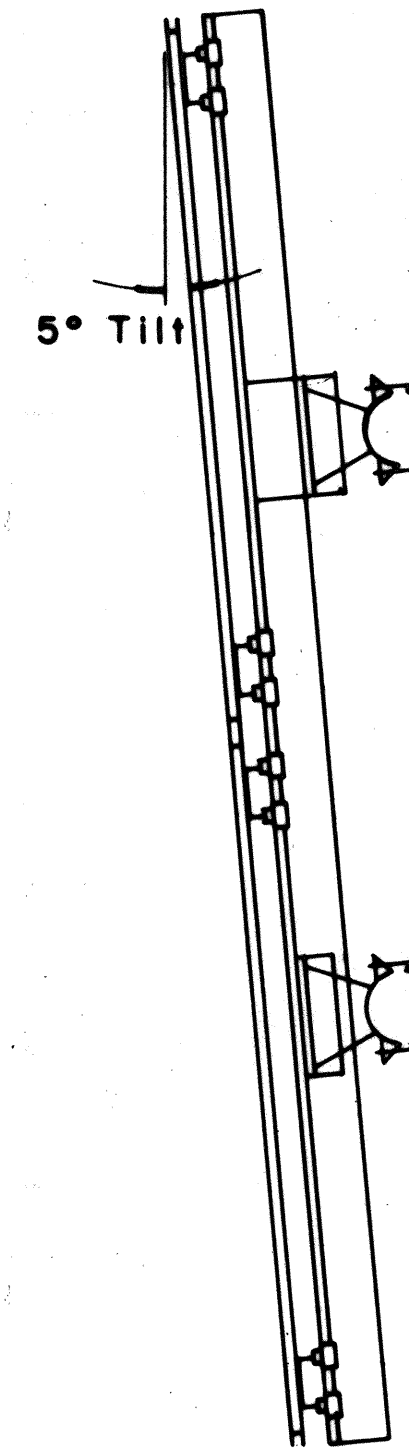
PANEL THICK.	LENGTH OF SIGN	NO. OF SUPPORTS	OVERHANG	
			B	C or C ₁
1"	6'-0"	2	12"	48"
1"	6'-6"	2	15"	48"
1"	7'-0"	2	15"	54"
1"	7'-6"	2	18"	54"
1"	8'-0"	2	18"	60"
1"	8'-6"	2	20"	62"
1"	9'-0"	2	22"	64"
1"	9'-6"	2	23"	68"
1"	10'-0"	2	24"	72"
1"	10'-6"	2	24"	78"
1"	11'-0"	2	24"	84"
1"	11'-6"	2	27"	84"
1"	12'-0"	2	30"	84"
1"	12'-6"	2	30"	90"
1"	13'-0"	2	30"	96"
1"	13'-6"	2	30"	102"
1"	14'-0"	2	30"	108"
1"	14'-6"	2	36"	102"
1"	15'-0"	2	36"	108"
1"	15'-6"	3	24"	69"
1"	16'-0"	3	24"	72"
1"	16'-6"	3	24"	75"
1"	17'-0"	3	24"	78"
1"	17'-6"	3	24"	81"
1"	18'-0"	3	24"	84"
1"	18'-6"	3	27"	84"
1"	19'-0"	3	27"	87"
1"	19'-6"	3	27"	90"
1"	20'-0"	3	30"	90"
1"	20'-6"	3	30"	93"
1"	21'-0"	3	30"	96"
1"	21'-6"	3	33"	96"
1"	22'-0"	3	36"	96"
1"	22'-6"	3	36"	99"
1"	23'-0"	3	36"	102"
1"	23'-6"	3	36"	105"
1"	24'-0"	3	36"	108"
1"	27'-6"	4	36"	86"
1"	29'-0"	4	36"	92"



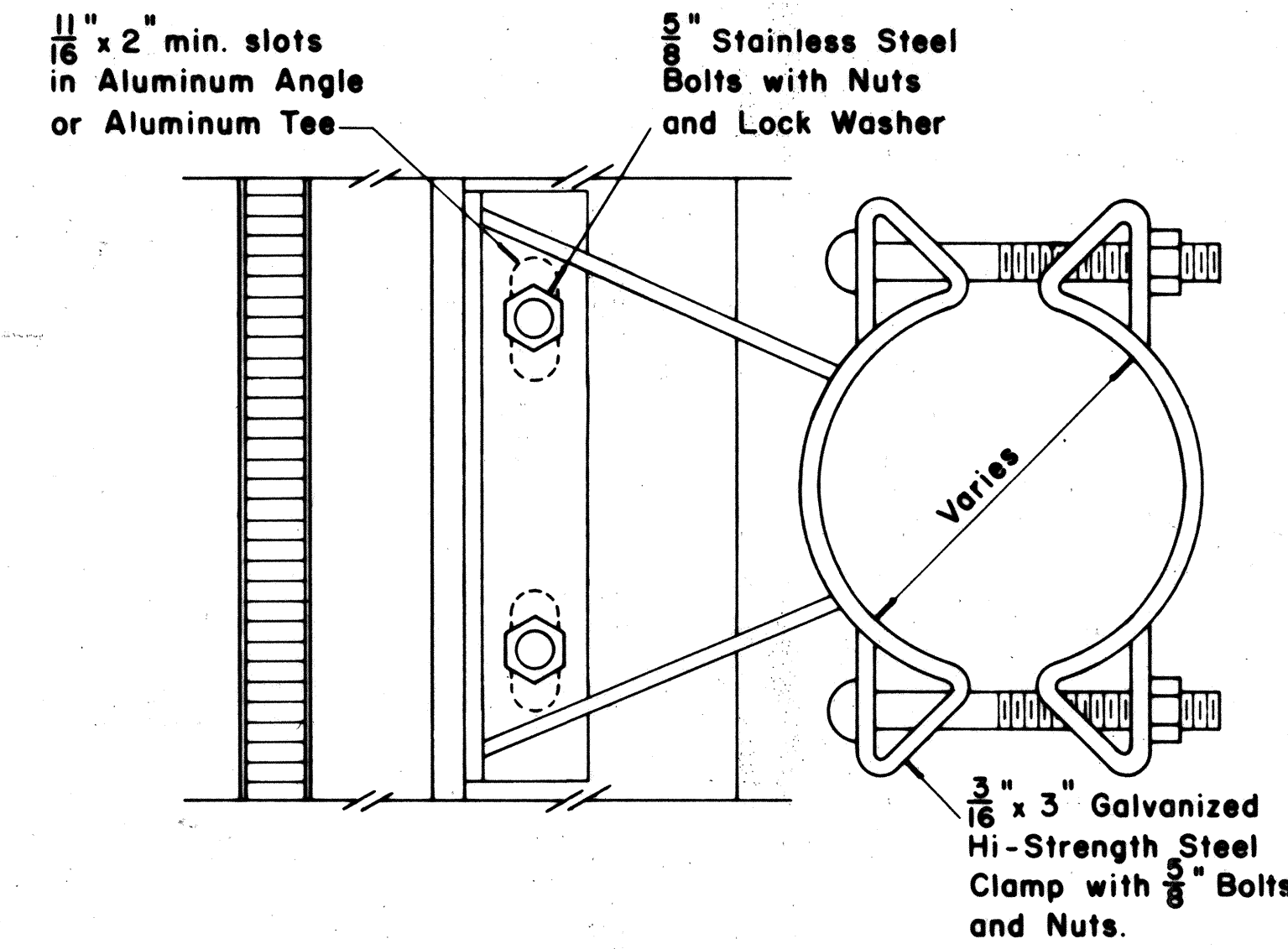
ELEVATION
TYPICAL SIGN ASSEMBLY
Scale: $\frac{3}{4}$ " = 1'-0"



SECTION "C-C"
Scale: $\frac{3}{8}$ " = 1"
SECTION "C-C" (Alternate)
Scale: $\frac{3}{8}$ " = 1"

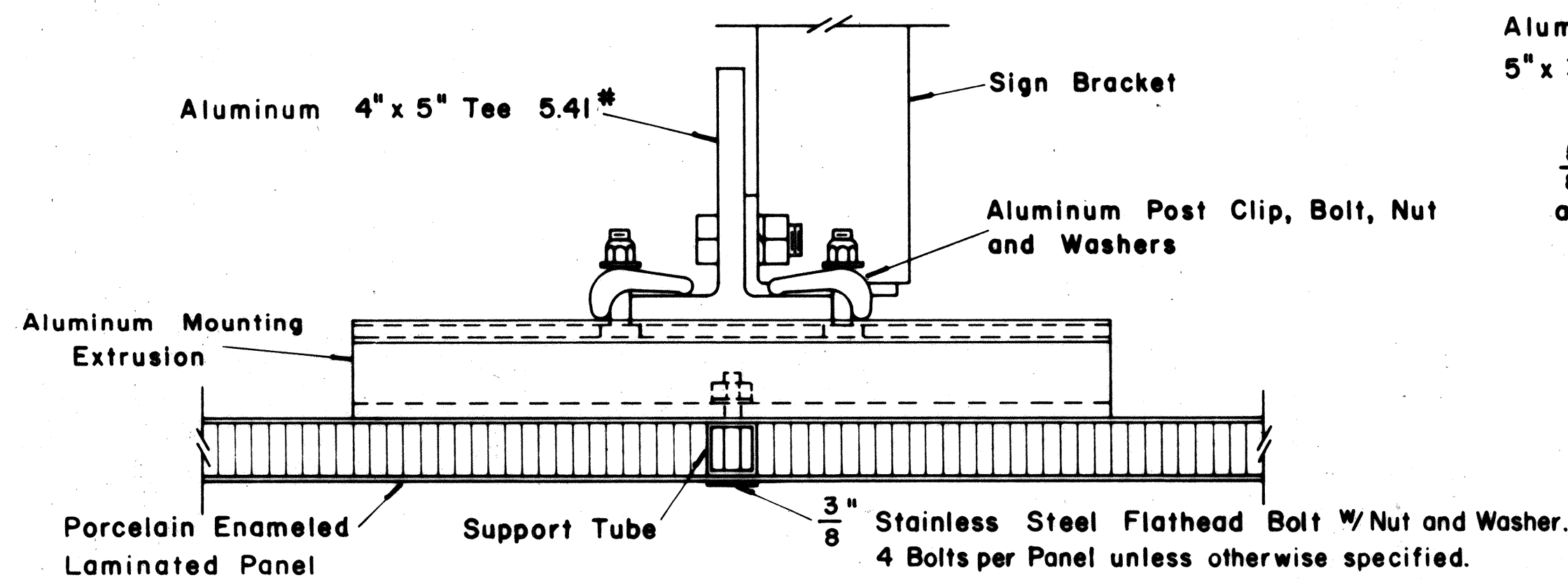


SIDE VIEW

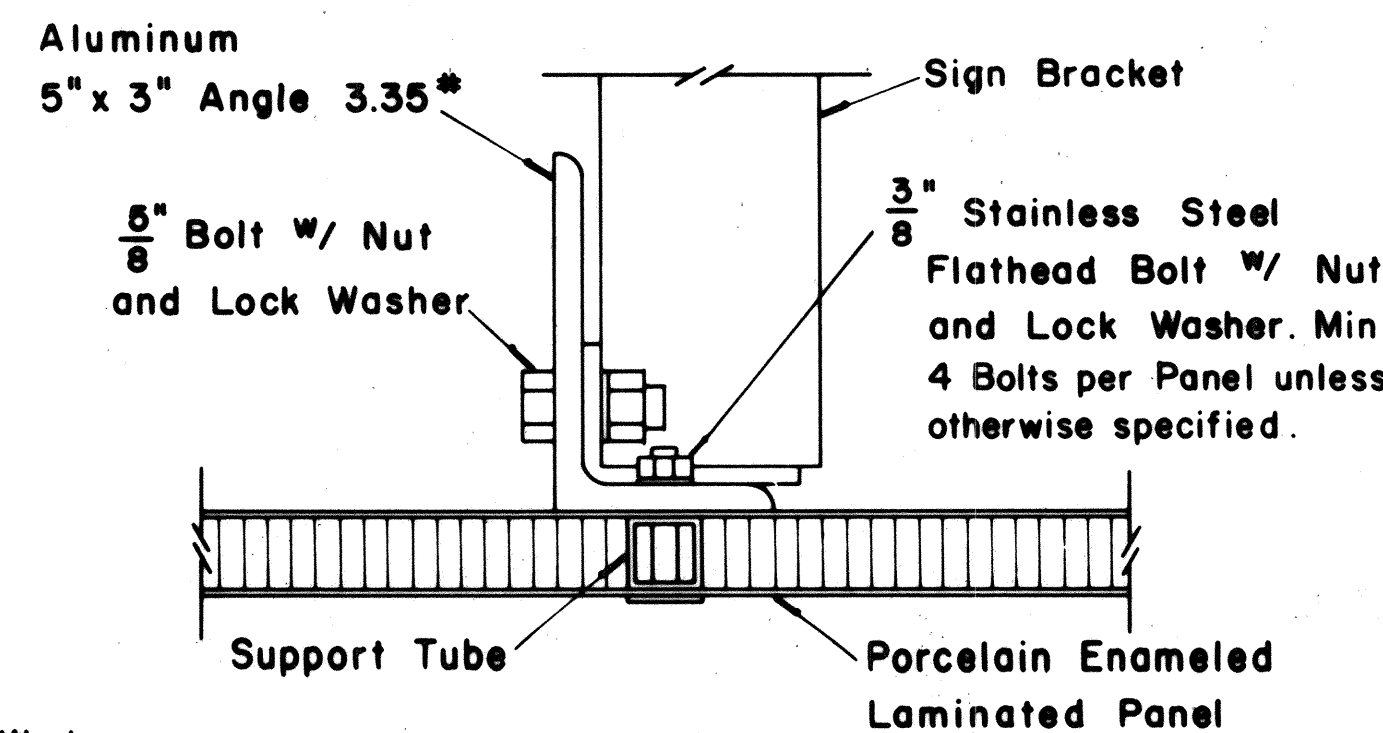


SIGN BRACKET ASSEMBLY
Scale: $\frac{3}{8}$ " = 1"

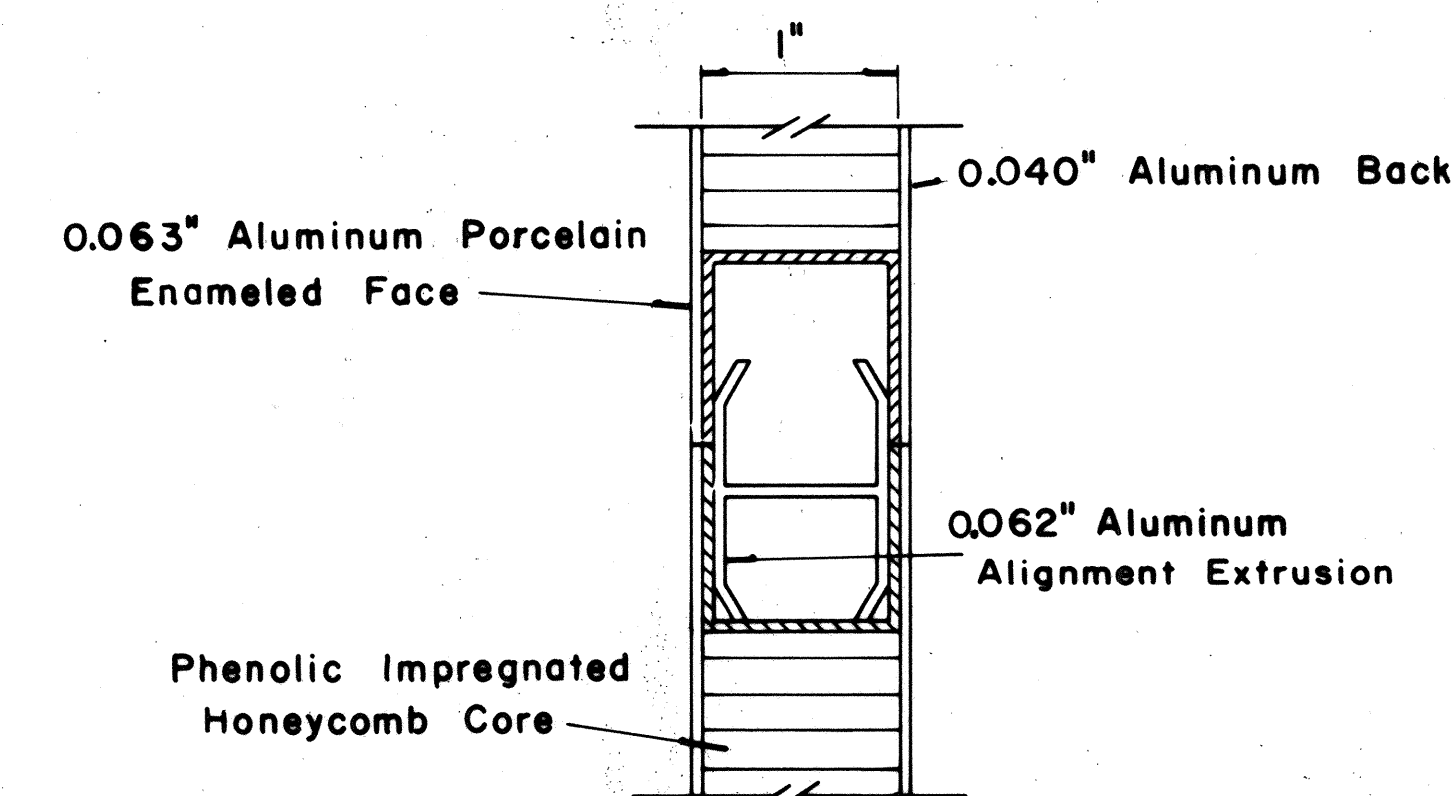
NOTE: For additional details of Sign Bracket Assembly, see Standard Detail Sheet "Overhead Sign Supports."



SECTION "A-A"
Scale: $\frac{3}{8}$ " = 1"



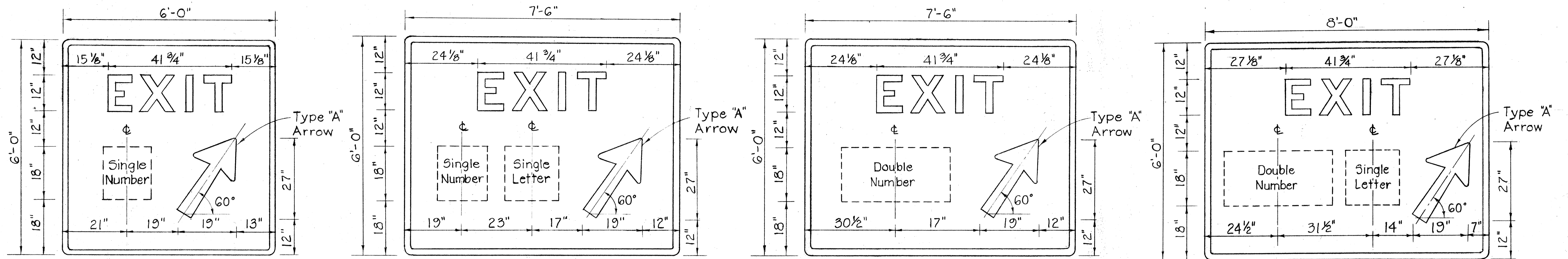
SECTION "A-A" (Alternate)
Scale: $\frac{3}{8}$ " = 1"



CLOSURE DETAIL SECTION "B-B"
FULL SCALE

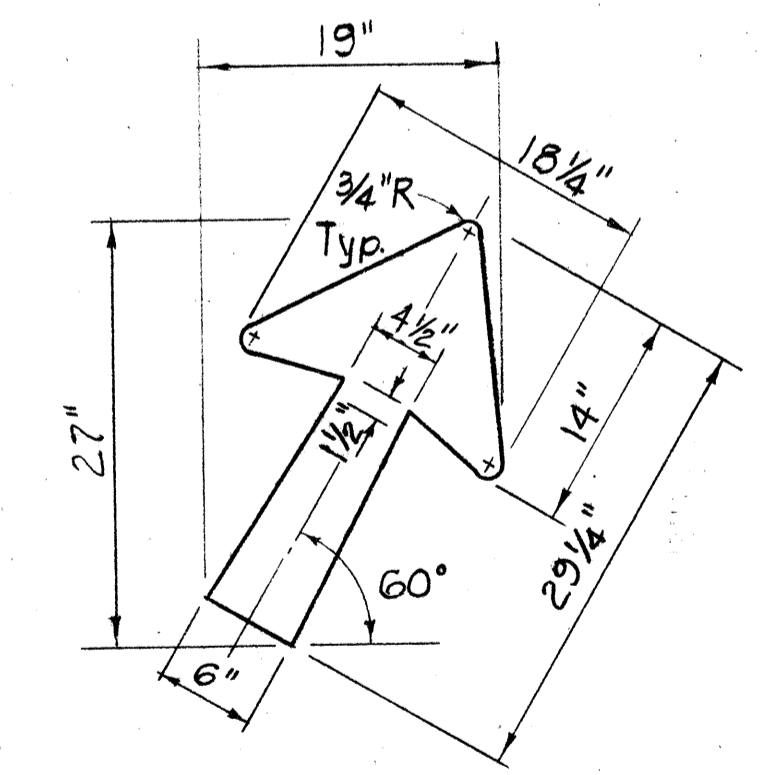
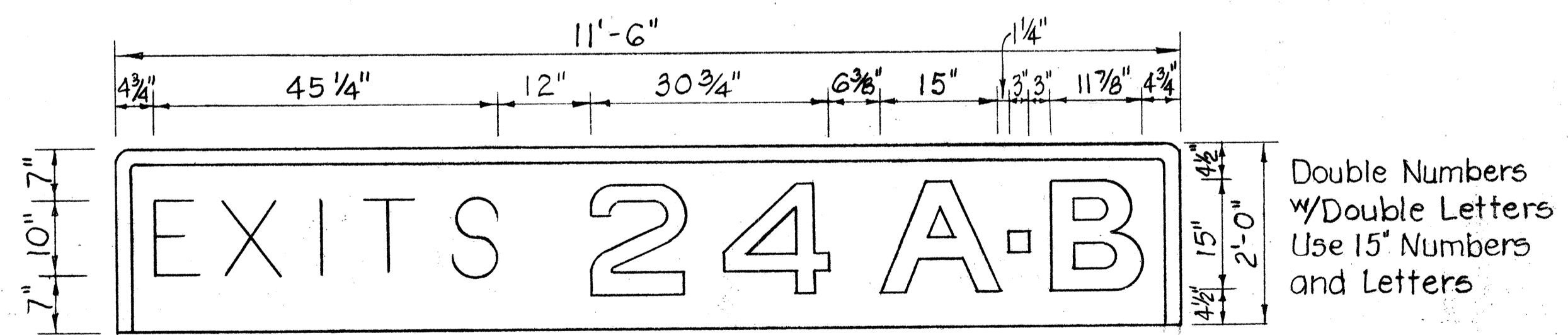
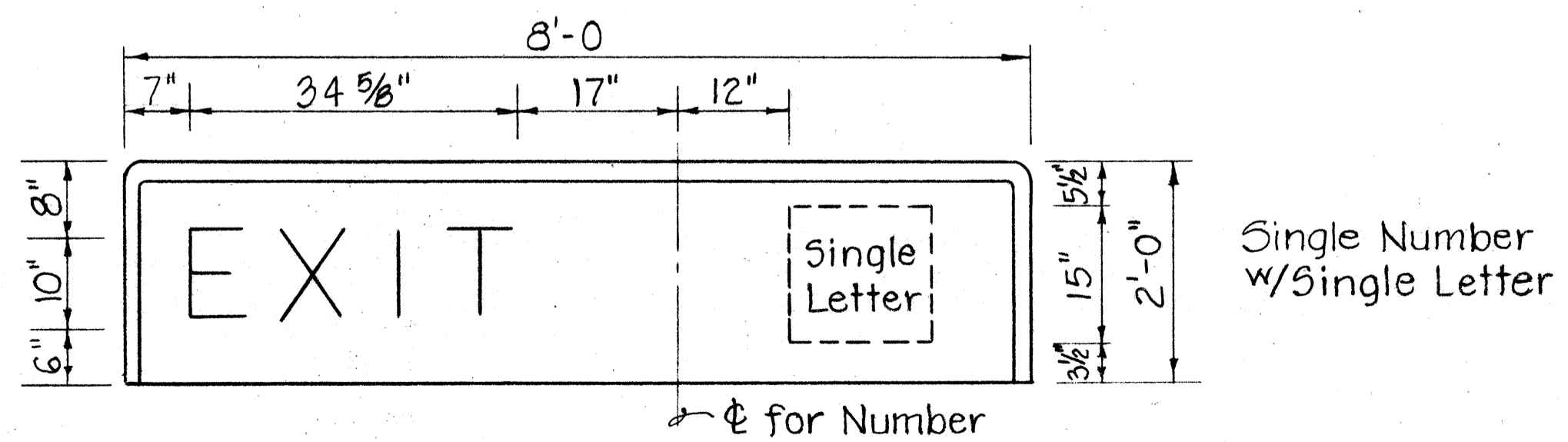
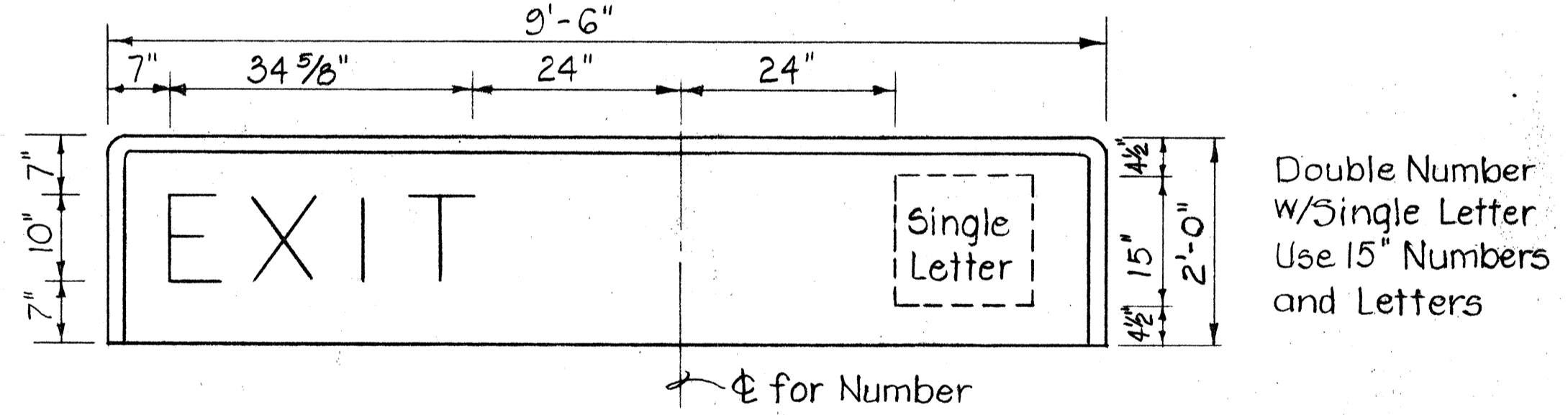
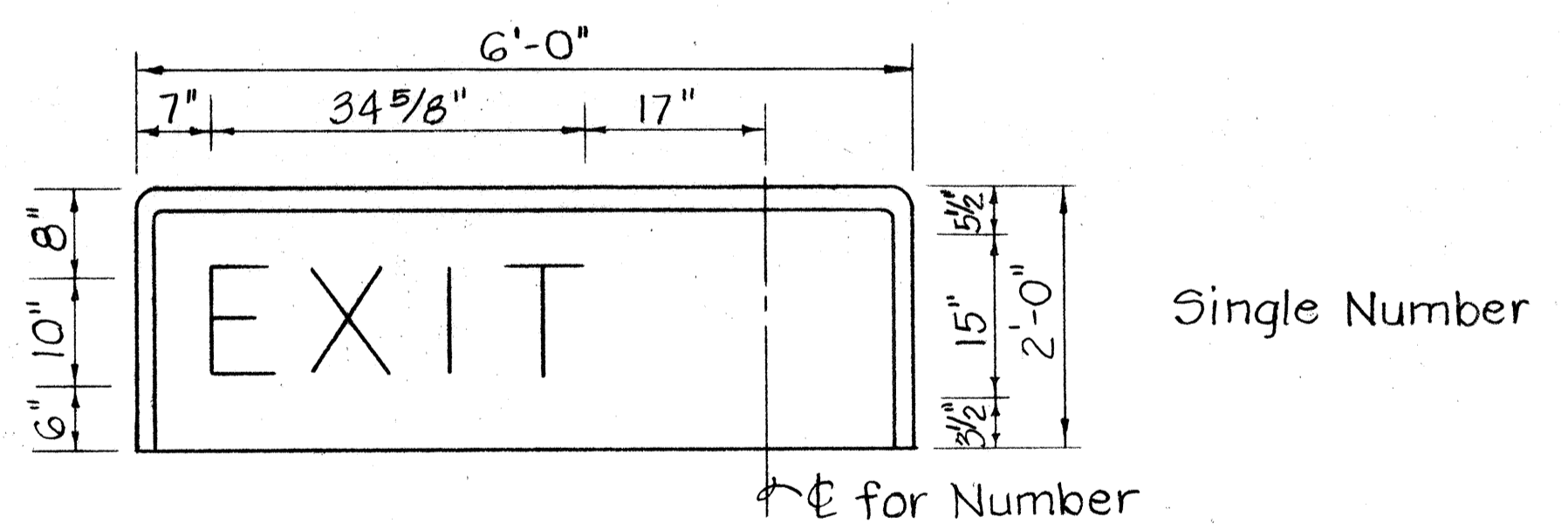
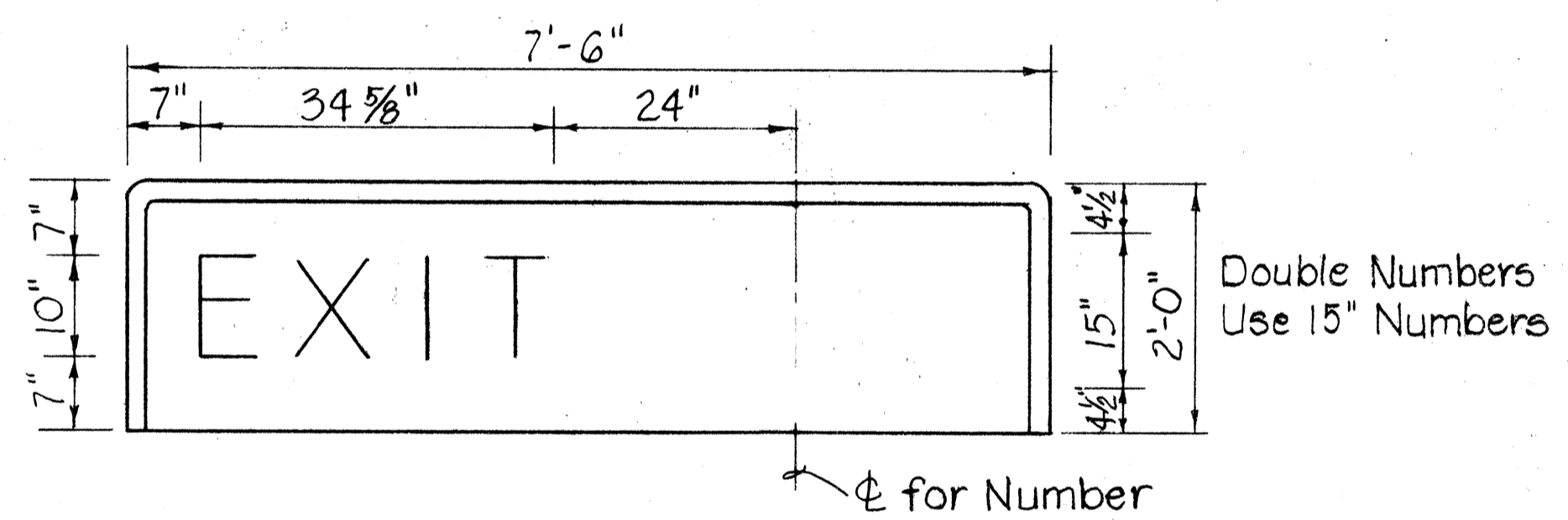
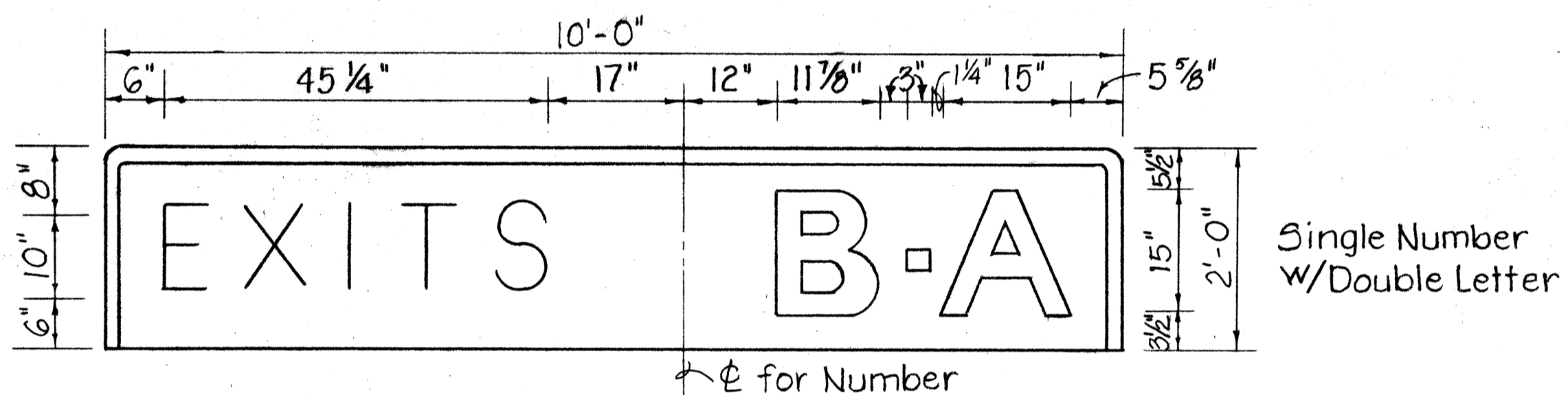
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
EXISTING SIGN SUPPORT DETAILS
LAMINATED ALUMINUM
SIGN PANELS
(OVERHEAD)
Scale: As Shown Date: Apr., 1989
SHEET No. 738 OF 48 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	75	81



GORE EXIT SIGNS
Scale: 3/4" = 1'-0"

- 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.
- Sign message shall be lettered in uppercase according to Standard Alphabets for Highway Signs, FHWA, 1966. Use Series "E" letters unless otherwise noted.
- Arrows, Borders, and Route Markers shall conform with details as shown on plans.
- Contractor shall submit for approval, shop drawings for the attachment of Exit Number Panels to Sign Panels.



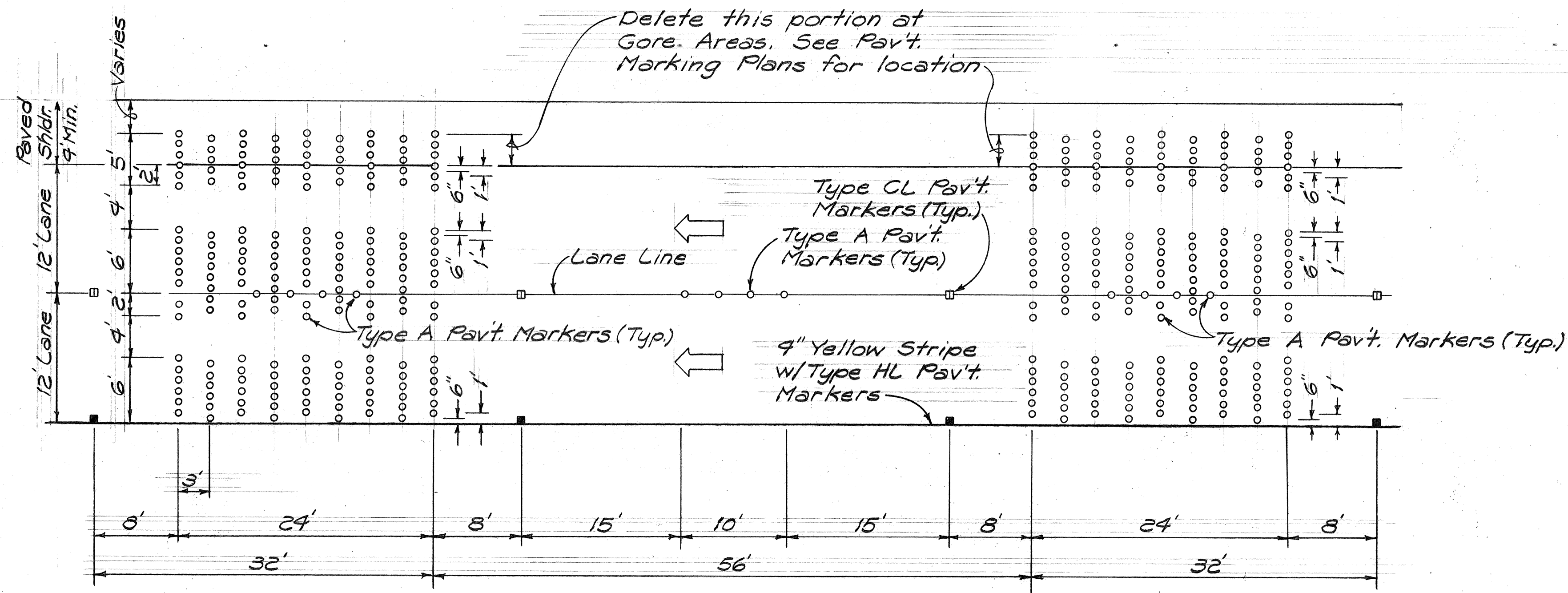
TYPE "A" DIAGONAL ARROW DETAIL
N.T.S.

EXIT NUMBER PANELS
Scale: 3/4" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL EXIT NUMBER SIGN PANEL LAYOUT
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIKAWA I.C. TO WAIKAWA I.C.
F.A.I. PROJ. NO. 1R-H2-1(24)
Date: Apr., 1989
SHEET No. 75 OF 45 SHEETS

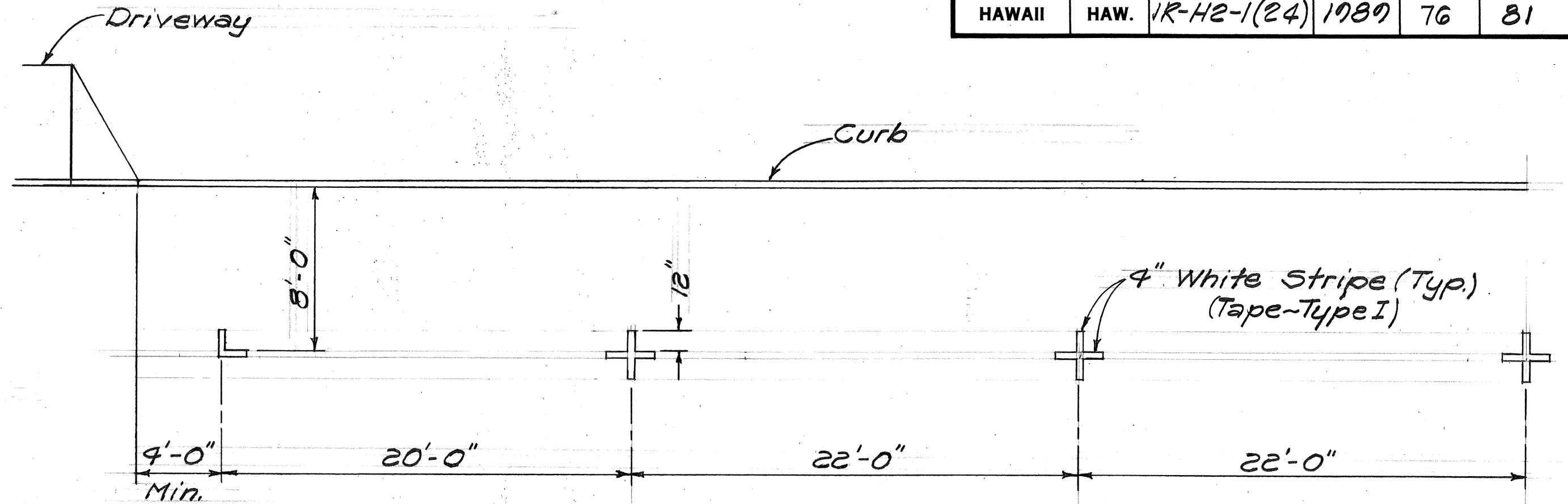
ORIGINAL PLAN
 DESIGNED BY
 QUANTITIES BY
 CHECKED BY
 DATE
 DRAWN BY
 TRACED BY
 NO.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	76	81



NOTE:
 1. Rumble Strip will be paid under Type A Pav't. Markers.
 2. See Pav't. Marking Plans for location.

TYPICAL RUMBLE STRIP DETAIL
 Scale: 1/8" = 1'-0"



TYPICAL PARKING SPACE MARKINGS
 Scale: 3/16" = 1'-0"

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

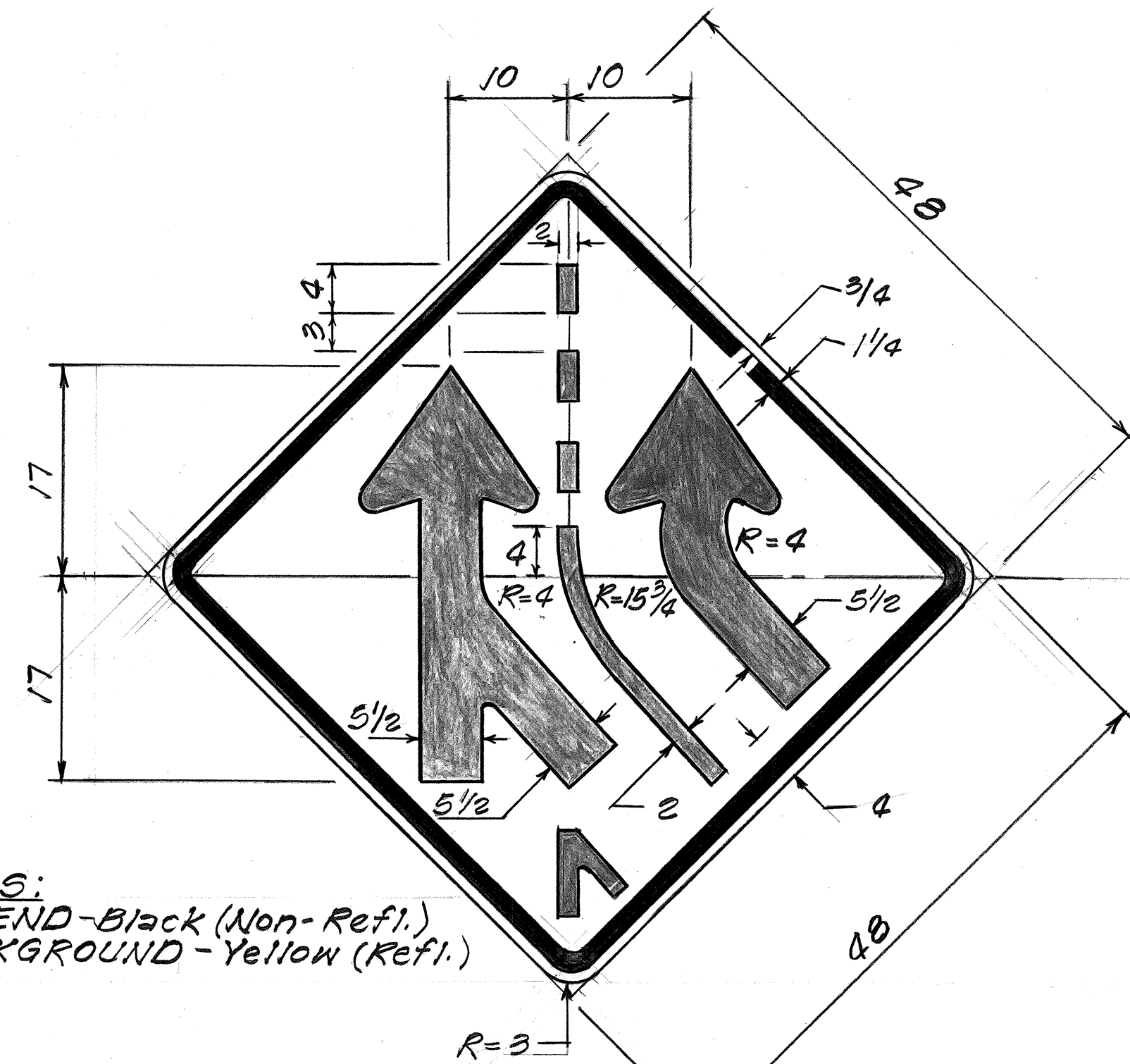
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

INTERSTATE ROUTE H-2 IMPROVEMENTS
 WAIHANA I.C. TO WAIANA I.C.
 F.A.I. PROJ. NO. 1R-H2-1(24)

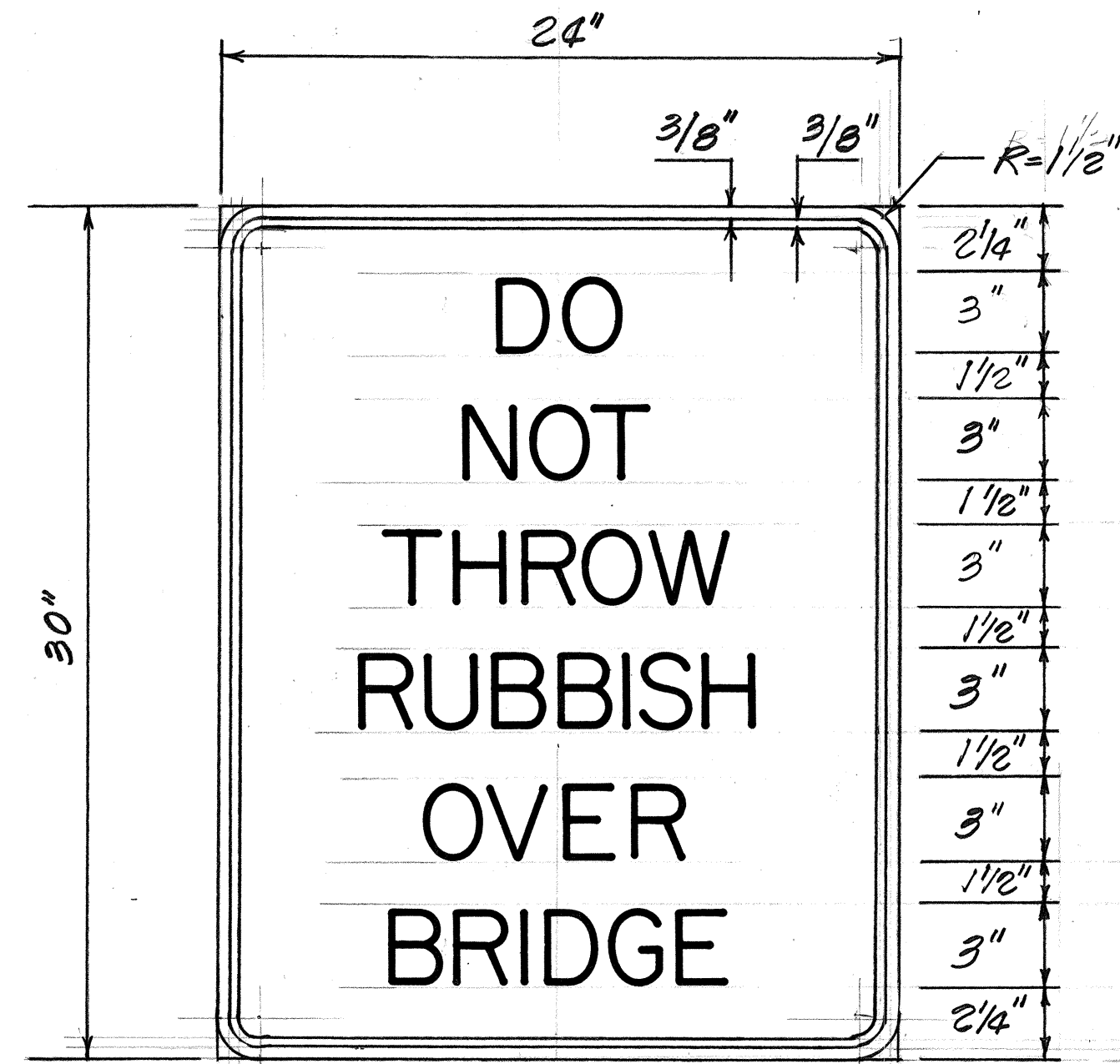
Scale: As Shown Date: Apr, 1989
 SHEET NO. 76 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	77	81



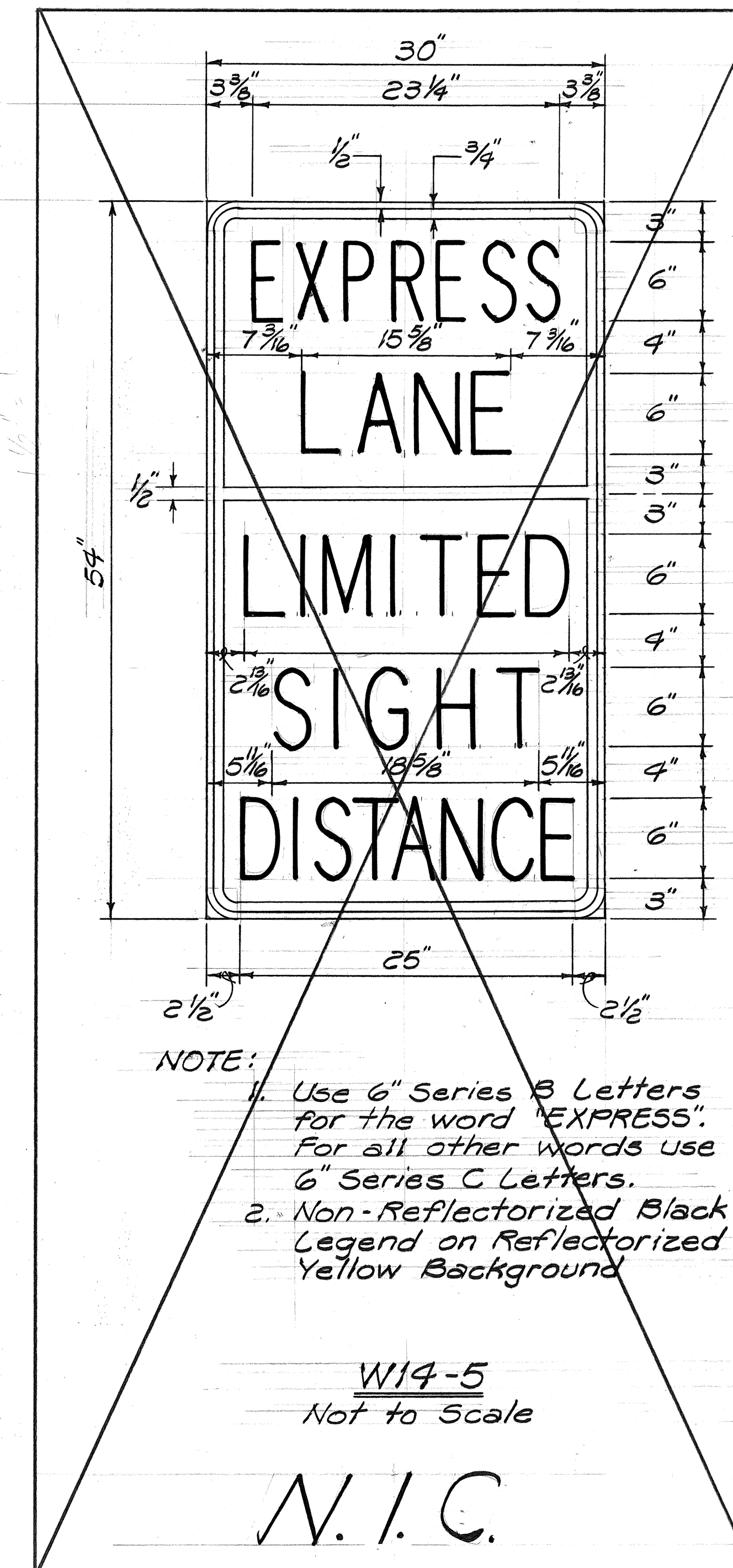
COLORS:
 LEGEND - Black (Non-Ref.)
 BACKGROUND - Yellow (Ref.)

W4-4-A
 Not to Scale



NOTE:
 1. Use 3" Series C Letters
 2. Reflectorized Red Legend and Border on Reflectorized White Background.

R8-7
 Not to Scale



NOTE:
 1. Use 6" Series B Letters for the word "EXPRESS". For all other words use 6" Series C Letters.
 2. Non-Reflectorized Black Legend on Reflectorized Yellow Background

W14-5
 Not to Scale

N.I.C.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

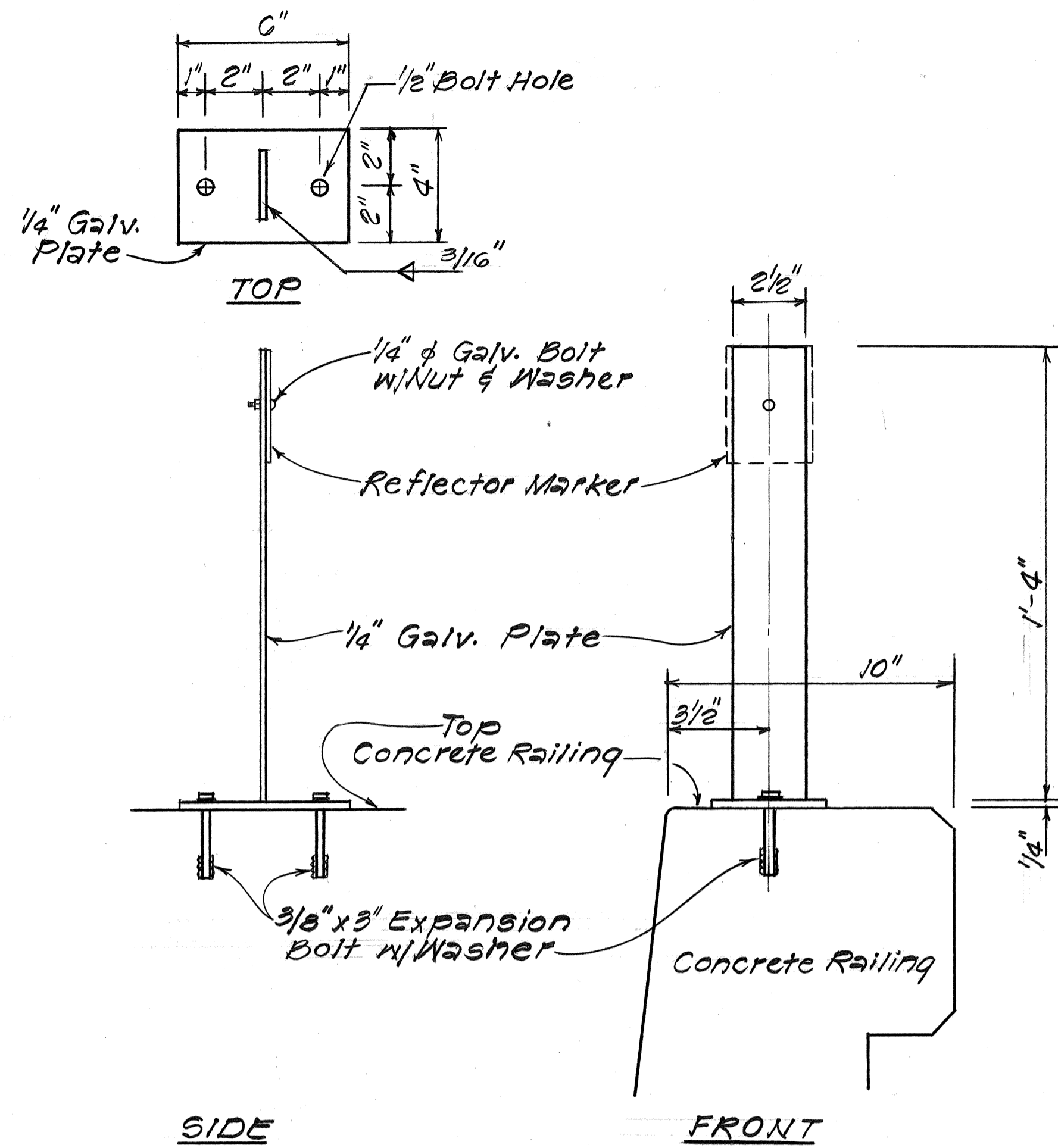
**MISCELLANEOUS SIGN
 DETAILS**

INTERSTATE ROUTE H-2 IMPROVEMENTS
 WAHIAWA I.C. TO WAIANA I.C.
 F.A.I. PROJ. NO. 1R-H2-1(24)

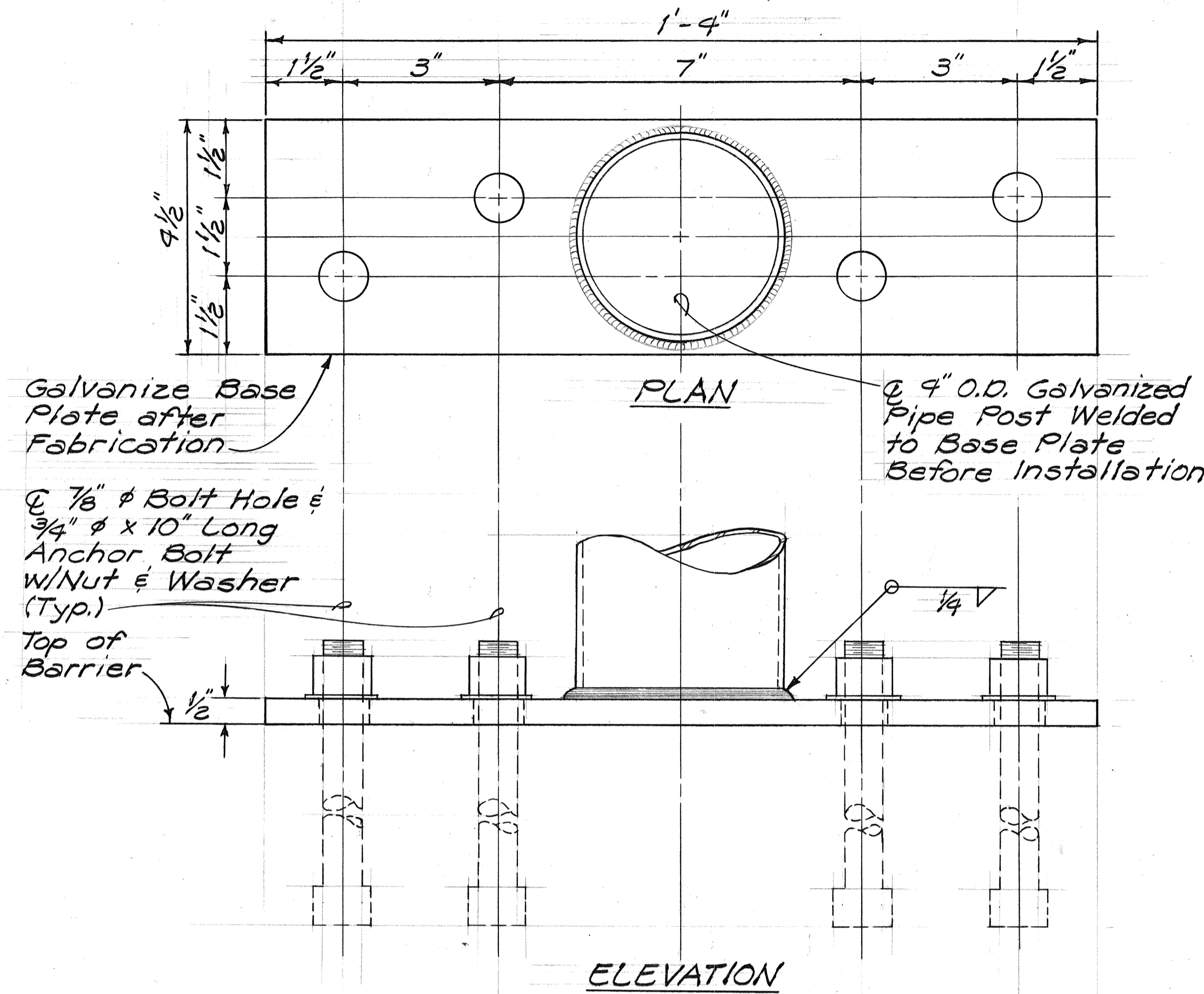
Scale: As Shown Date: Apr., 1989

SHEET No. 741 OF 45 SHEETS

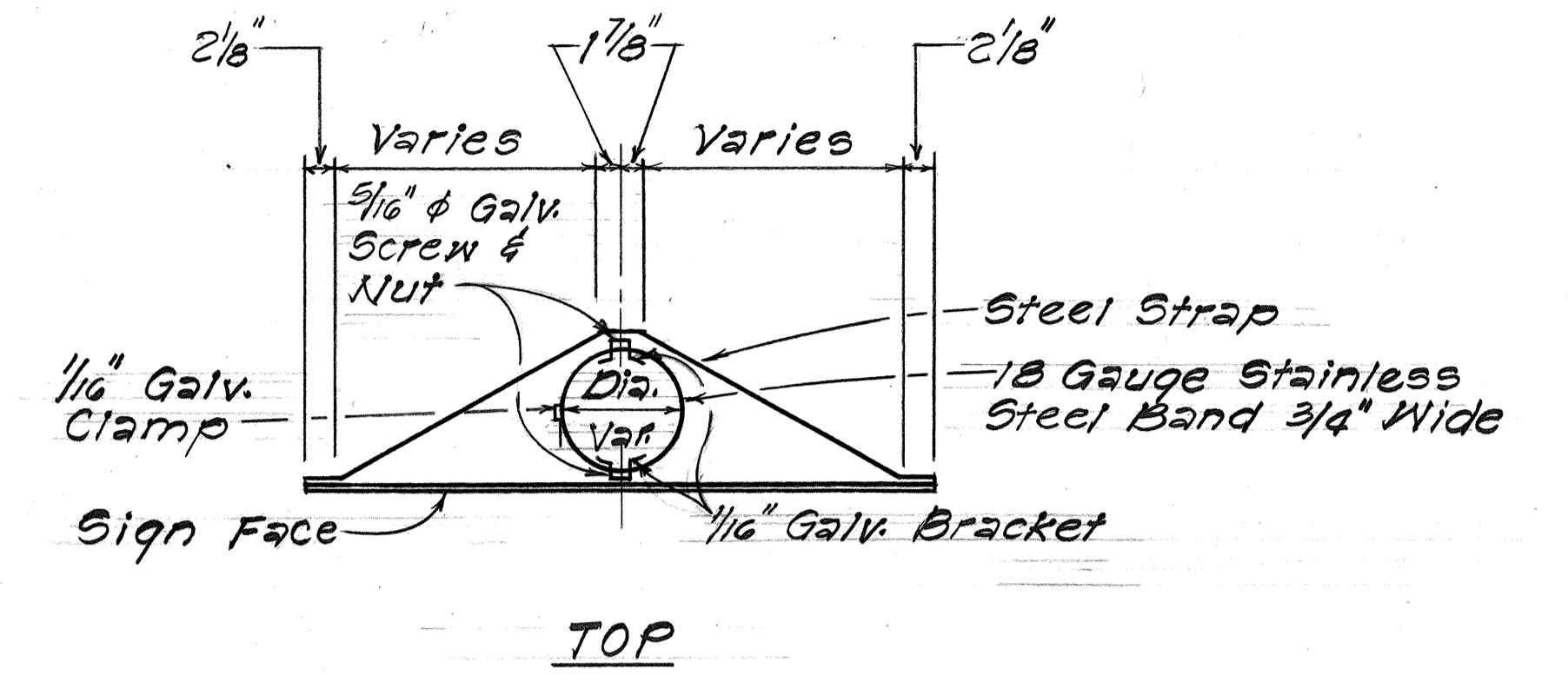
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	78	81



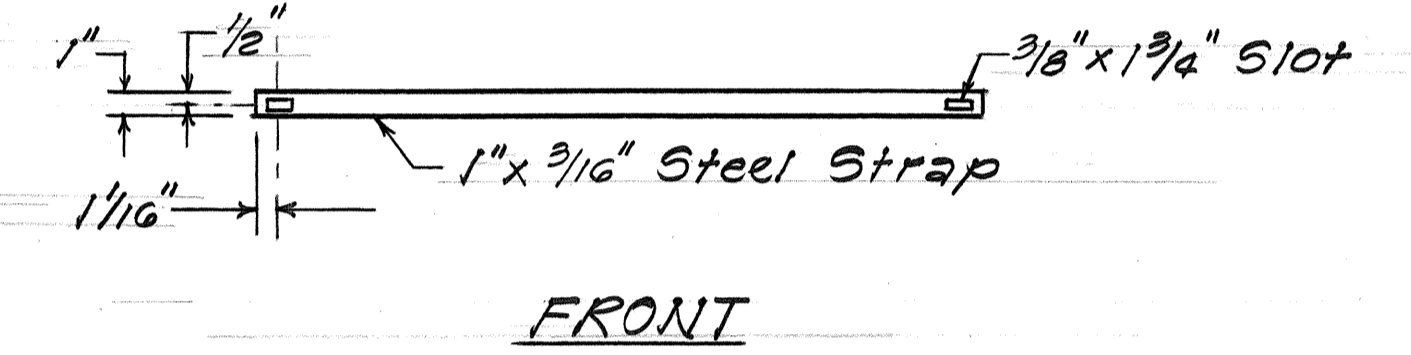
**TYPICAL DETAIL
REFLECTOR MARKER
MOUNTED ON CONCRETE RAILING**
Not to Scale



**SIGN POST
BASE PLATE DETAIL**
Not to Scale



SIGN BRACKET DETAIL
Not to Scale



FRONT

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

INTERSTATE ROUTE H-2 IMPROVEMENTS
WAIHAWA I.C. TO WAIAWA I.C.
F.A.I. PROJ. NO. 1R-H2-1(24)

Scale: As Shown Date: Apr., 1989

SHEET No. 742 OF 45 SHEETS

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
IRM-1	⊗ STA. 63+00 RT.	IM3-3-A IM-1(3) ← SOUTH H-2	1			
IRM-2	G.C. STA. 6+50 RT.	IM3-3 IM-1(2) ← IM5-1(L) SOUTH H-2 ↖		1		
IRM-3	G.C. STA. 9+00 RT.	IM3-3 IM-1(2) IM6-1(L) SOUTH H-2 ←	1			
IRM-4	RAMP LI STA. 0+50 LT.	IM3-3 IM-1(2) IM6-1(R) SOUTH H-2 →	1			
IRM-5	⊗ STA. 127+00 RT.	IM3-3-A IM-1(3) SOUTH H-2	1			
IRM-6	⊗ STA. 165+50 LT.	IM3-1-A IM-1(3) NORTH H-2	1			
IRM-7	M.P. STA. 23+80 LT.	IM3-3 IM-1(2) IM5-1(L) SOUTH H-2 ↖	1			
IRM-8	M.P. STA. 24+50 LT.	IM3-1 IM-1(2) IM6-1(L) NORTH H-2 ←	1			
IRM-9	M.P. STA. 27+00 RT.	IM3-3 IM-1(2) IM6-1(L) SOUTH H-2 ←	1			
IRM-10	M.P. STA. 33+00 LT.	IM3-1 IM-1(2) IM6-3 IM3-3 IM-1(2) IM6-2(R) NORTH H-2 ↑ SOUTH H-2 ↗			1	
SRM-1	G.C. STA. 13+50 RT.	M3-3 M1-6(99) M6-1(L) M3-1 M1-6(99) M6-1(R) SOUTH 99 ← NORTH 99 →			1	
SRM-2	RAMP WM-1 STA. 18+75 RT.	M4-5 M1-6(99) M6-2(R) TO 99 ↗	1			
SRM-3	RAMP MW-1 STA. 23+85 RT.	M4-5 M1-6(99) M6-1(L) TO 99 ←	1			
SRM-4	RAMP HM-1 STA. 13+50 RT.	M4-5 M1-6(99) M5-1(L) TO 99 ↖	1			
TOTAL			11	1	2	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	79	81

CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POST	W/O POST
CG20-1(B)	H-2 ⊗ STA. 32+20 RT.	ROAD CONSTRUCTION NEXT 8 MILES	1	
CW20-1d	H-2 ⊗ STA. 37+20 RT.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	H-2 ⊗ STA. 37+20 LT.	END CONSTRUCTION	1	
CG20-1(B)	KAM HWY. STA. 76+00 LT.	ROAD CONSTRUCTION NEXT 8 MILES	1	
CW20-1d	KAM HWY STA. 74+00 LT.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	MEHEULA PARKWAY STA. 39+50 RT.	END CONSTRUCTION	1	
CW20-1d	MEHEULA PARKWAY STA. 39+50 LT.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	H-2 I.B. STA. 457+00 LT.	END CONSTRUCTION		1
CG20-2	RAMP H2-1 STA. 503+20 LT.	END CONSTRUCTION		1
CW20-1d	RAMP H2-0 STA. 506+70 LT.	ROAD CONSTRUCTION AHEAD		1
CG20-1d	H-2 O.B. STA. 457+00 LT.	ROAD CONSTRUCTION AHEAD	1	
CG20-1(B)	H-2 O.B. STA. 462+00 ± LT.	ROAD CONSTRUCTION NEXT 8 MILES	1	
TOTAL			9	3

REFLECTOR MARKER SUMMARY

TYPE	QUANTITY							
	W/POST		W/FLEXIBLE POST		W/STEEL POST		MOUNT ON CONCRETE RETAINING WALL	
	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE
RM-1		17	105	146	2	82		9
RM-2				15		14		

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
MISCELLANEOUS SUMMARIES
 INTERSTATE ROUTE H-2 IMPROVEMENTS
 WAHIAWA I.C. TO WAIAWAI I.C.
 F.A.I. PROJ. NO. 1R-H2-1(24)
 Date: Apr. 1989
 SHEET No. 743 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	80	81

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POST	W/O POST
R1-1	STOP	2	1		
R1-2	YIELD	1	1		
R2-1(25)	SPEED LIMIT 25		2		
R2-1(45)-A	SPEED LIMIT 45			2	
R2-1(55)-A	SPEED LIMIT 55			11	3
R2-56(35)-A	REDUCED SPEED 35			1	
R2-56(45)-A	REDUCED SPEED 45			2	
R3-1	⊘ NO RIGHT TURN	2			
R3-3	NO TURNS	1			
R3-4-A	⊘ NO U TURN			1	
R3-7(R)	RIGHT LANE MUST TURN RIGHT		1		
R4-3-A	SLOWER TRAFFIC KEEP RIGHT			2	
R5-1	DO NOT ENTER	5	3		
R5-1a	WRONG WAY	8	1		
R6-1(R)	ONE WAY		1		
R7-1	NO PARKING ANY TIME ↔		7		
R7-4-A	NO STOPPING OR STANDING ↔	2	7		
R8-9	DO NOT THROW RUBBISH OVER BRIDGE		5		
R16-5	UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5HP, PEDESTRIAN KEEP OUT FREEWAY			8	
W1-1(R)	↗		2		
W3-2a	⊕ STOP AHEAD		1		
W3-3	⊞ SIGNAL AHEAD	1			
W4-1(R)-A	↑ MERGE			2	
W4-2(R)-A	↓			2	
W4-4-A	↗			2	
W9-2(L)-A	LANE ENDS MERGE LEFT			1	
W9-3(L)	THRU TRAFFIC MERGE LEFT			1	
W13-1(15)	15 M.P.H.		2		
W13-2(25)	EXIT 25 M.P.H.			3	2
W13-3(45)	RAMP 45 M.P.H.			1	
W14-1	DEAD END		1		
D9-2	H ←	2			
TOTAL		24	32	39	5

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A	6,900 EA.
TYPE CL	1,975 EA.
TYPE DL	70 EA.
TYPE HL	1,300 EA.
TYPE J	50 EA.
TAPE - TYPE I	
4-INCH PAVEMENT STRIPE (WHITE)	4,600 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	3,000 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW)	1,500 L.F.
PAVEMENT ARROWS	12 EA.
PARKING STALL	20 EA.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	54,200 L.F.
4-INCH PAVEMENT STRIPE (YELLOW)	48,700 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	9,600 L.F.
12-INCH PAVEMENT STRIPE (WHITE)	2,900 L.F.
12-INCH PAVEMENT STRIPE (YELLOW)	540 L.F.
THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	2,100 L.F.
4-INCH PAVEMENT STRIPE (YELLOW)	200 L.F.
12-INCH PAVEMENT STRIPE (WHITE)	220 L.F.
CROSSWALK MARKINGS	8 LANE

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
MISCELLANEOUS SUMMARIES
 INTERSTATE ROUTE H-2 IMPROVEMENTS
 WAIKANA I.C. TO WAIKANA I.C.
 F.A.I. PROJ. NO. 1R-H2-1(24)
 Date: Apr, 1989
 SHEET No. 744 OF 45 SHEETS

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	OVERLAY AREA (SQ. FT.)	NEW PANEL AREA (SQ. FT.)	
					W/O POST	WIPOST
D-1	Ⓡ STA. 46+00 RT.	EXIT 9 ↗	6'-0" x 6'-0"		36.00	
(W/O)-2	Ⓡ STA. 64+00 LT.	END FREEWAY 1/2 MILE	11'-0" x 8'-0"	88.00		
D-3	Ⓡ STA. 67+45 LT.	EXIT 8 ↗	6'-0" x 6'-0"			36.00
D-4	RAMP E STA. 15+00 RT.	← Wahiawa Wheeler AFB →	12'-6" x 4'-0"	50.00		
D-5	Ⓡ STA. 82+70 RT.	EXIT 8 ↗	6'-0" x 6'-0"		36.00	
(W/O)-6	Ⓡ STA. 88+00 LT.	END FREEWAY 1 MILE	11'-0" x 8'-0"	88.00		
D-7	RAMP LO STA. 3+00 LT.	Wheeler AFB ←	13'-6" x 6'-0"	81.00		
D-8	G.C. STA. 12+00 RT.	← Mililani Wheeler AFB →	10'-0" x 4'-0"		40.00	
D-9	G.C. STA. 10+20 LT.	Honolulu →	8'-0" x 2'-0"		16.00	
D-10	Ⓡ STA. 122+80 LT.	EXIT 7 ↗	6'-0" x 6'-0"		36.00	
D-11	Ⓡ STA. 126+50 LT.	Ⓡ NORTH Wheeler AFB ↗	16'-6" x 9'-0"	148.50		
D-12	Ⓡ STA. 141+00 RT.	Mililani 1/2 Waipahu 6	8'-0" x 3'-6"	28.00		
D-13	Ⓡ STA. 141+00 LT.	Ⓡ NORTH Wheeler AFB 1/4 MILE	16'-6" x 9'-0"	148.50		
D-14	Ⓡ STA. 153+00 LT.	Wheeler AFB 1/2 Wahiawa 2	11'-0" x 3'-6"		38.50	
D-15	Ⓡ STA. 166+85 RT.	Mililani ↗	10'-6" x 6'-6"	68.25		
D-16	Ⓡ STA. 172+75 RT.	EXIT 5 ↗	6'-0" x 6'-0"		36.00	
D-17	RAMP WM-1 STA. 20+25 RT.	Mililani ↗	8'-0" x 2'-0"		16.00	
D-18	RAMP HM-2 STA. 12+20 RT.	← Mililani	8'-0" x 2'-0"		16.00	
D-19	Ⓡ STA. 203+50 LT.	EXIT 5 ↗	6'-0" x 6'-0"			36.00
D-20	M.P. STA. 20+20 RT.	Wahiawa →	8'-0" x 2'-0"			16.00
D-21	M.P. STA. 23+00	← Wahiawa	8'-0" x 2'-0"			16.00
D-22	M.P. STA. 27+85 LT.	Ⓡ NORTH ↘ Wahiawa	14'-0" x 7'-6"			105.00
D-23	M.P. STA. 28+65	← Honolulu	8'-0" x 2'-0"		16.00	
D-24	M.P. STA. 32+50	Honolulu →	8'-0" x 2'-0"			16.00
D-25	M.P. STA. 34+45	Honolulu → ↘ Wahiawa	8'-0" x 4'-0"		32.00	
D-26	O.B. STA. 211+00 LT.	Mililani ↗	10'-6" x 6'-6"	68.25		
D-27	Ⓡ STA. 247+00 RT.	Waipahu 9 Pearl City 5 Honolulu 16	8'-0" x 4'-6"	36.00		
D-28	Ⓡ STA. 247+00 LT.	Mililani 1/2 MILE	10'-6" x 6'-6"	68.25		
D-29	Ⓡ STA. 263+00 LT.	Mililani 1 MILE	11'-6" x 8'-0"	92.00		
D-30	I.B. STA. 320+00 RT.	Ⓡ Honolulu Waianae 2 MILES	14'-6" x 14'-6"	210.25		
D-31(L)	I.B. STA. 376+00	Ⓡ EAST Honolulu ↓ ↓ ↓	29'-0" x 9'-6"		275.50	
D-31(R)	I.B. STA. 376+00	Ⓡ WEST Waianae 1 Mile	11'-0" x 9'-6"	104.50		
D-32	I.B. STA. 405+00 RT.	Waipahu Pearl City NEXT RIGHT	13'-6" x 8'-0"	108.00		
D-33	Ⓡ STA. 415+00 I.B.	Ⓡ EAST Honolulu ↓ ↓ ↓	29'-0" x 9'-6"		275.50	
D-34	Ⓡ STA. 425+00 RT.	Ⓡ EAST ↘ WEST Ⓡ Waipahu Pearl City	29'-0" x 18'-0"	432.00		
D-35	Ⓡ STA. 425+00 LT.	Wapio 1 Mililani 9 Wahiawa 7	9'-0" x 4'-6"	40.50		
D-36	RAMP H2-1 STA. 507+00	Waipahu Pearl City NEXT RIGHT	13'-6" x 8'-0"	108.00		
TOTAL				1,880.00	957.50	225.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-H2-1(24)	1989	81	81

EXIT NUMBER SIGN SUMMARY

INSTALLED ABOVE SIGN NO.	DESCRIPTION	AREA (SQ. FT.)	
		NEW PANEL	OVERLAY
E-1(R)	EXIT 9		12.00
E-2	EXIT 8		12.00
E-5	EXIT 8		12.00
D-11	EXIT 7		12.00
D-13	EXIT 7		12.00
D-15	EXIT 5		12.00
D-26	EXIT 5		12.00
D-28	EXIT 5		12.00
D-29	EXIT 5		12.00
D-30	EXITS 1A-B		20.00
D-31(L)	EXIT 1A	16.00	
D-31(R)	EXIT 1B		16.00
D-32	EXIT 1B		16.00
D-33	EXIT 1A	16.00	
D-34	EXIT 1A		16.00
D-34	EXIT 1B		16.00
E-6(L)	EXIT 1A	16.00	
TOTAL		98.00	192.00

EXPRESSWAY SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)	OVERLAY AREA (SQ. FT.)	SIGN LUMINAIRE
(W/E)-1(A)	Ⓡ STA. 44+00	END FREEWAY	11'-0" x 9'-0"		99.00	
E-1(L)	Ⓡ STA. 44+00	Ⓡ SOUTH Honolulu ↓ ↓	18'-0" x 9'-6"		171.00	
E-1(R)	Ⓡ STA. 44+00	Ⓡ Kam Hwy ↗	12'-0" x 9'-6"		114.00	
E-2	Ⓡ STA. 53+00 RT.	Ⓡ NORTH Wahiawa 1/2 MILE	11'-6" x 9'-0"		103.50	
E-3	KAM. HWY. STA. 75+75 LT.	Ⓡ SOUTH Honolulu ↗	14'-0" x 7'-6"		105.00	
E-4	Ⓡ STA. 75+50 RT.	NORTH Ⓡ EXIT 8 Wahiawa	15'-6" x 4'-0"		62.00	
E-5	Ⓡ STA. 76+50 LT.	Wahiawa ↗	11'-6" x 6'-0"		69.00	
E-6(L)	Ⓡ STA. 432+95 I.B.	Ⓡ EAST Honolulu ↓ ↓ ↓	29'-0" x 9'-6"	275.50		3 EA.
E-6(R)	Ⓡ STA. 432+95 I.B.	Ⓡ WEST ↗ Waianae EXIT ONLY				2 EA.
TOTAL				275.50	723.50	5 EA.

8/2/89 Revised Sign D-18 Message
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS SUMMARIES
INTERSTATE ROUTE H-2 IMPROVEMENTS
WAHIAWA I.C. TO WAIANA I.C.
F.A.I. PROJECT NO. 1R-H2-1(24)
Date: Apr., 1989

SHEET NO. 745 OF 95 SHEETS

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