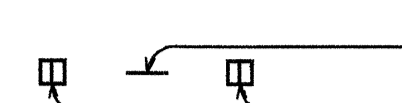



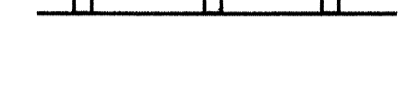



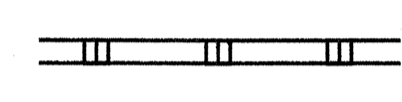



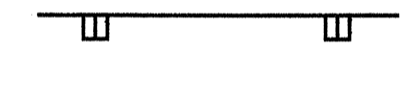
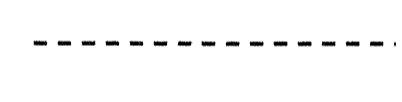
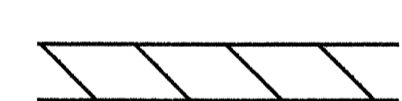
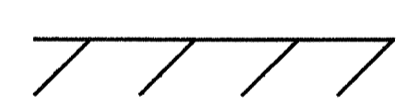




FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	85	120

LEGEND

-  4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'-0" o.c.
-  4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
-  8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion))
-  4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion))
-  4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion))
-  4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
-  4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)
-  Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)
-  Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)
-  Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
-  Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)
-  Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
-  STOP Pavement Word (Tape, Type III or Thermoplastic Extrusion)
-  4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
-  Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

NOTES

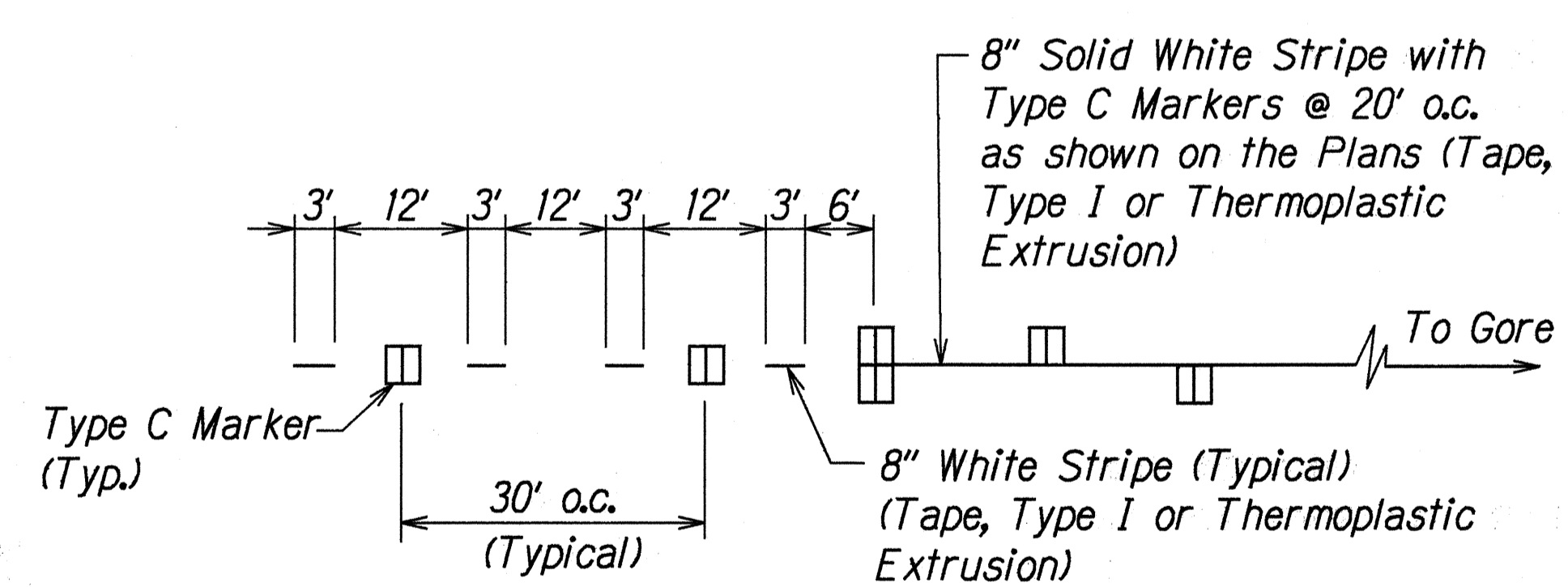
1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the legend or plans.
8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
9. Backing for all new Regulatory and Warning Signs shall not be spliced.
10. Interstate Route Marker Symbols shall conform to details shown on the plans and as specified in the MUTCD.
11. 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"
12. Borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
13. Sign messages shall be as indicated on the plan.
14. 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.
15. Removal of Existing Delineators and Posts shall be considered incidental to the various signing items.
16. Removing and reinstalling existing Signs on Regulatory and Warning Sign Post shall not be paid for separately but shall be considered incidental to the various signing items.
17. 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.
18. Dept. of Transportation Services, City & County of Honolulu, will assist the Engineer in construction inspection for the loop detector work.
19. The exact locations of the new loop detectors shall be determined in the field by the Engineer.

NOTES (continued)

20. 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.
21. The Contractor shall install construction signs as noted on the plans. At the Project completion, these signs and posts shall become the property of the State. The Contractor shall remove and deliver these signs and posts to a location as directed by the Engineer. The contract price paid shall be full compensation for all excavation and backfilling, for furnishing, installing, removing and delivering all materials and for all equipment, tools, labor and incidentals necessary to complete the work.
22. All new RM-2 shall be installed on either a highway light post, delineator post, steel post, concrete barrier, or bridge pipe railing.
23. All RM-2 not protected by a vehicular barrier shall be mounted on a flexible delineator post unless otherwise directed by the Engineer.
24. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
25. Construction signs installed and/or posted by others shall be relocated and reinstalled as determined by the Engineer. Payment for this work shall be made under Item No. 645.0200 - Police Officers and/or Additional Traffic Control Devices.

REFLECTOR MARKER LEGEND

RM-2



LANE DROP MARKING

Not to Scale

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING

LEGEND, DETAILS & NOTES

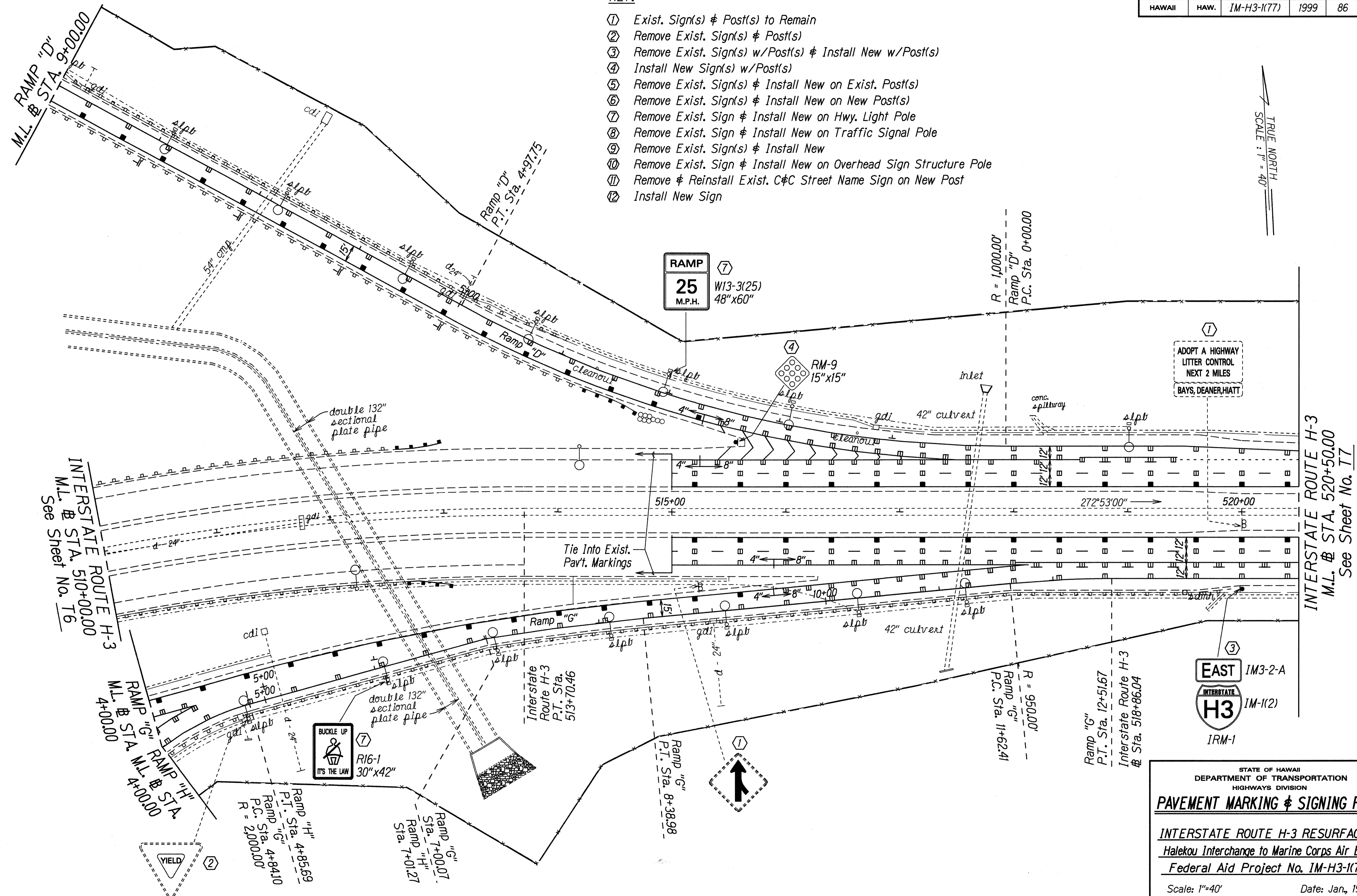
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: As Noted Date: Jan., 1999

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H3-1(77)	1999	86	120

KEY:

- ① Exist. Sign(s) & Post(s) to Remain
- ② Remove Exist. Sign(s) & Post(s)
- ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
- ④ Install New Sign(s) w/Post(s)
- ⑤ Remove Exist. Sign(s) & Install New on Exist. Post(s)
- ⑥ Remove Exist. Sign(s) & Install New on New Post(s)
- ⑦ Remove Exist. Sign & Install New on Hwy. Light Pole
- ⑧ Remove Exist. Sign & Install New on Traffic Signal Pole
- ⑨ Remove Exist. Sign(s) & Install New
- ⑩ Remove Exist. Sign & Install New on Overhead Sign Structure Pole
- ⑪ Remove & Reinstall Exist. C&C Street Name Sign on New Post
- ⑫ Install New Sign



ADOPT A HIGHWAY LITTER CONTROL NEXT 2 MILES
BAYS, DEANER, HIATT

EAST IM3-2-A
INTERSTATE H3 IM-1(2)
IRM-1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. 1M-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

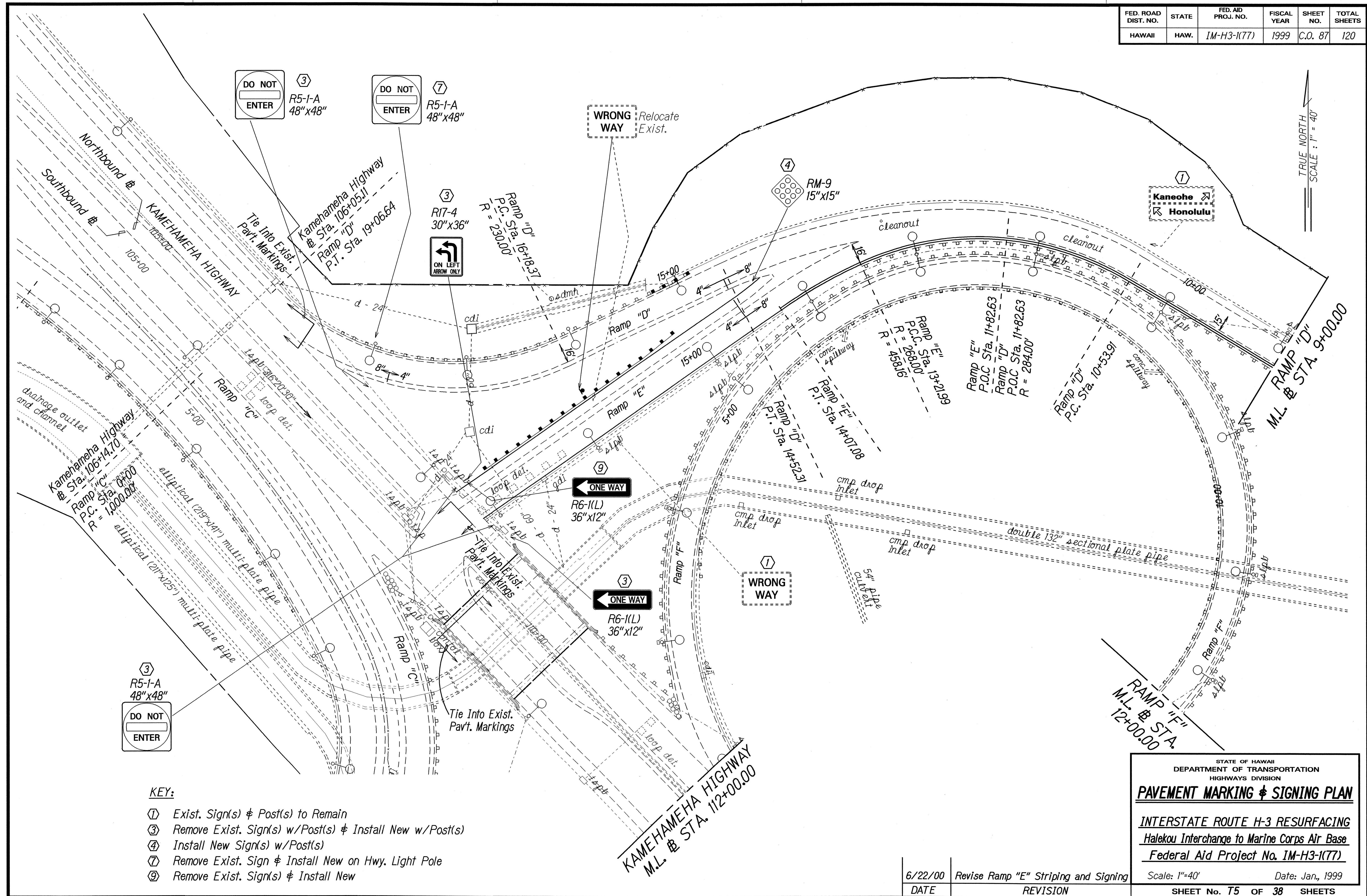
SHEET No. T4 OF 38 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	7/16/97
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	
CHECKED BY	

INTERSTATE ROUTE H-3
M.L. & STA. 520+50.00
See Sheet No. T7

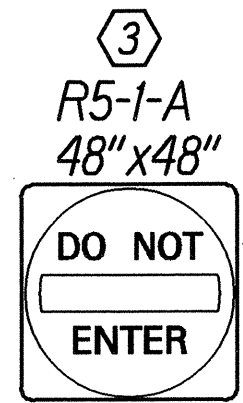
INTERSTATE ROUTE H-3
M.L. & STA. 510+00.00
See Sheet No. T6

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-(K77)	1999	C.O. 87	120



TRUE NORTH
SCALE: 1" = 40'

DATE	7/16/97
DESIGNED BY	G. Kishida, Steven Y.
QUANTITIES BY	N. 2/13/92
CONFERRED BY	
ORIGINAL PLAN	
TRACED BY	
NOTED BY	



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑦ Remove Exist. Sign & Install New on Hwy. Light Pole
 - ⑨ Remove Exist. Sign(s) & Install New

DATE	REVISION
6/22/00	Revise Ramp "E" Striping and Signing

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

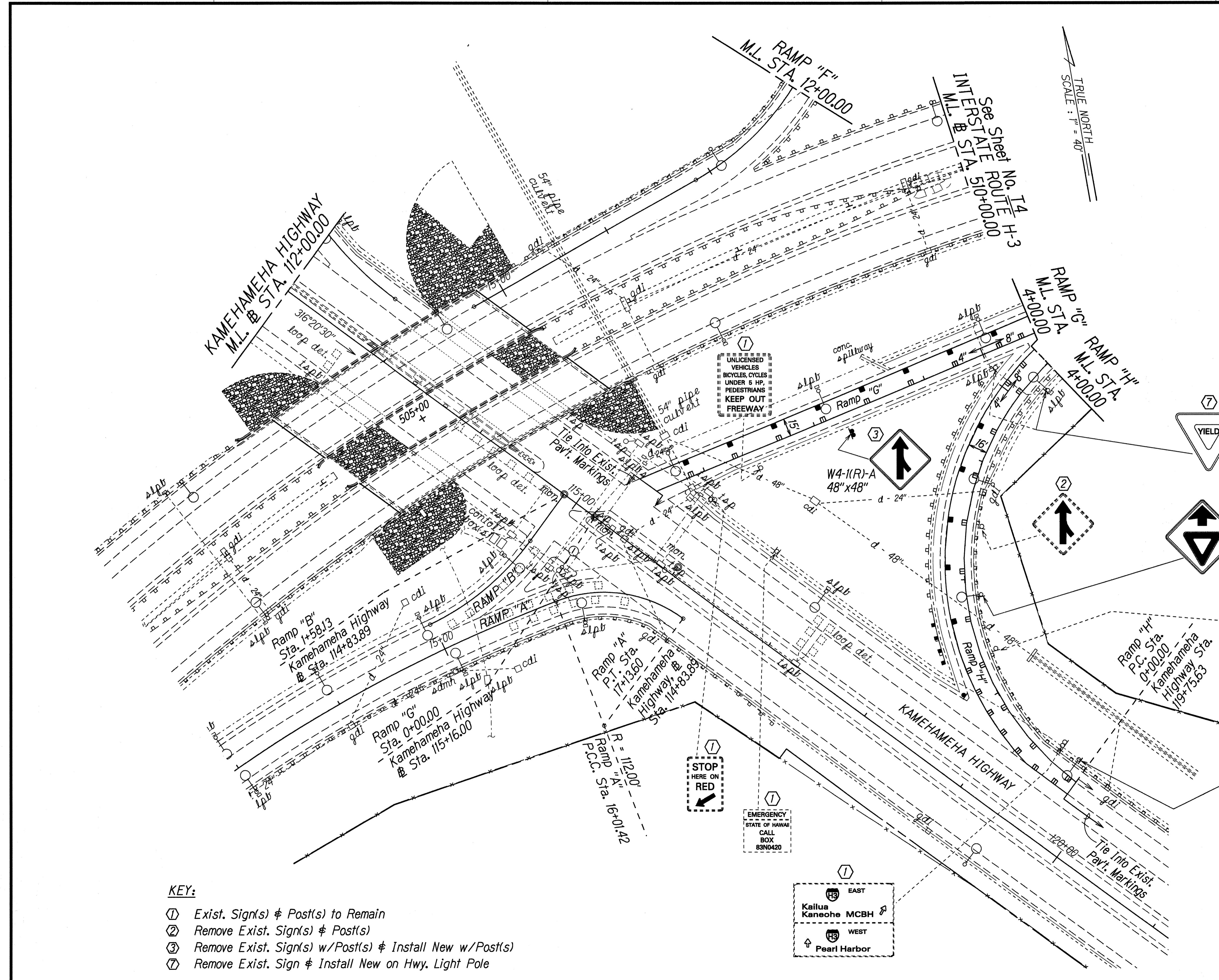
PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-(K77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T5 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	88	120

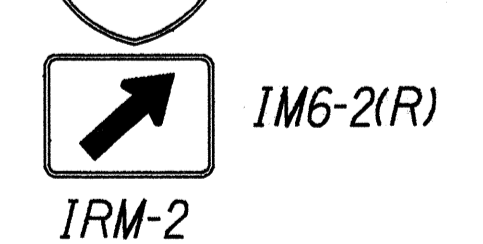
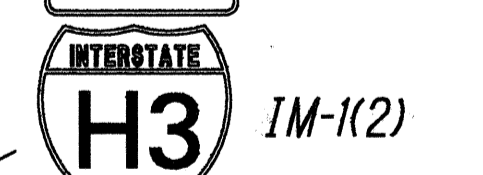
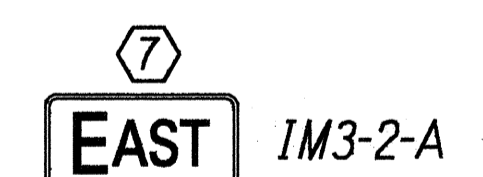
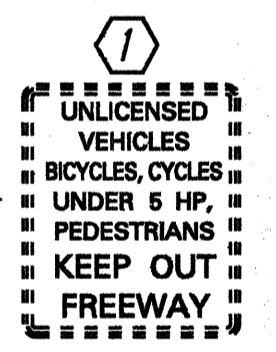
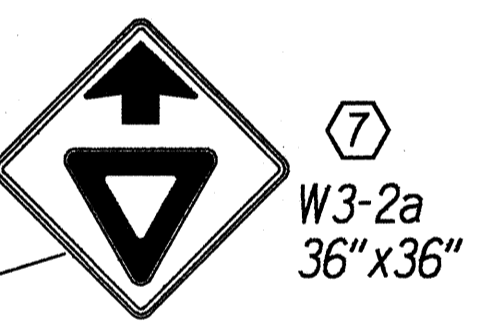
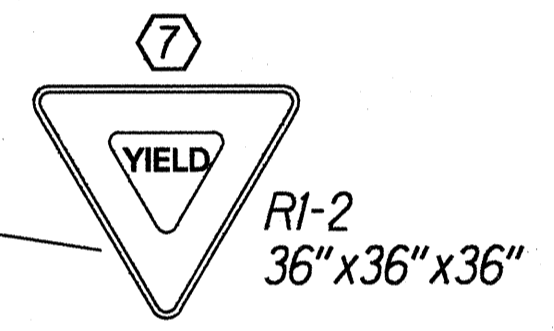
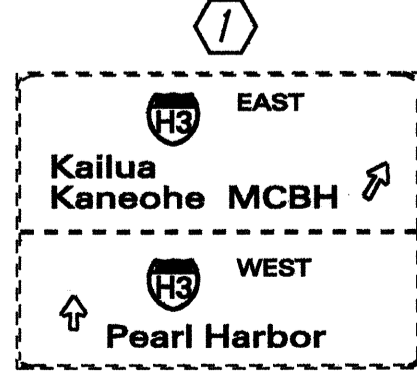


SURVEY PLOTTED BY	DATE	1/16/99
DRAWN BY		
NOTE BOOK	DESIGNED BY	G. KAGOH, STEVEN Y.
101-ruby	QUANTITIES BY	
	CHECKED BY	

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ⑦ Remove Exist. Sign & Install New on Hwy. Light Pole

STOP
HERE ON
RED

EMERGENCY
STATE OF HAWAII
CALL
BOX
BSN0420



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

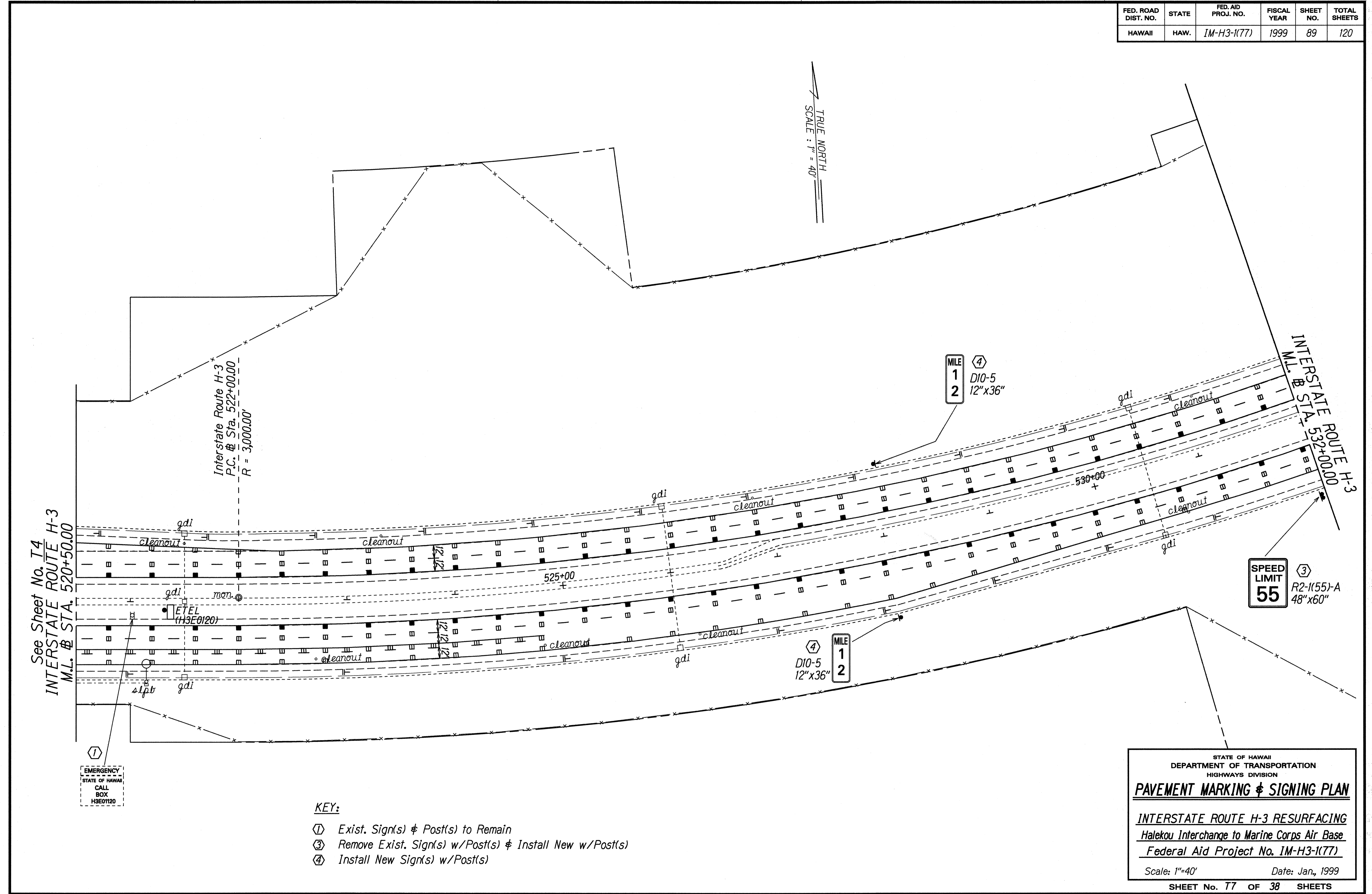
PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T6 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	89	120



SURVEY PLOTTED BY	DATE	12/16/99
DRAWN BY	DR	AC
NOTE BOOK		
TRACED BY		
QUANTITIES BY		
CHECKED BY		
ORIGINAL PLAN		
FILED BY		
NO. 21131704		

EMERGENCY
STATE OF HAWAII
CALL
BOX
H3E0120

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ④ Install New Sign(s) w/Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

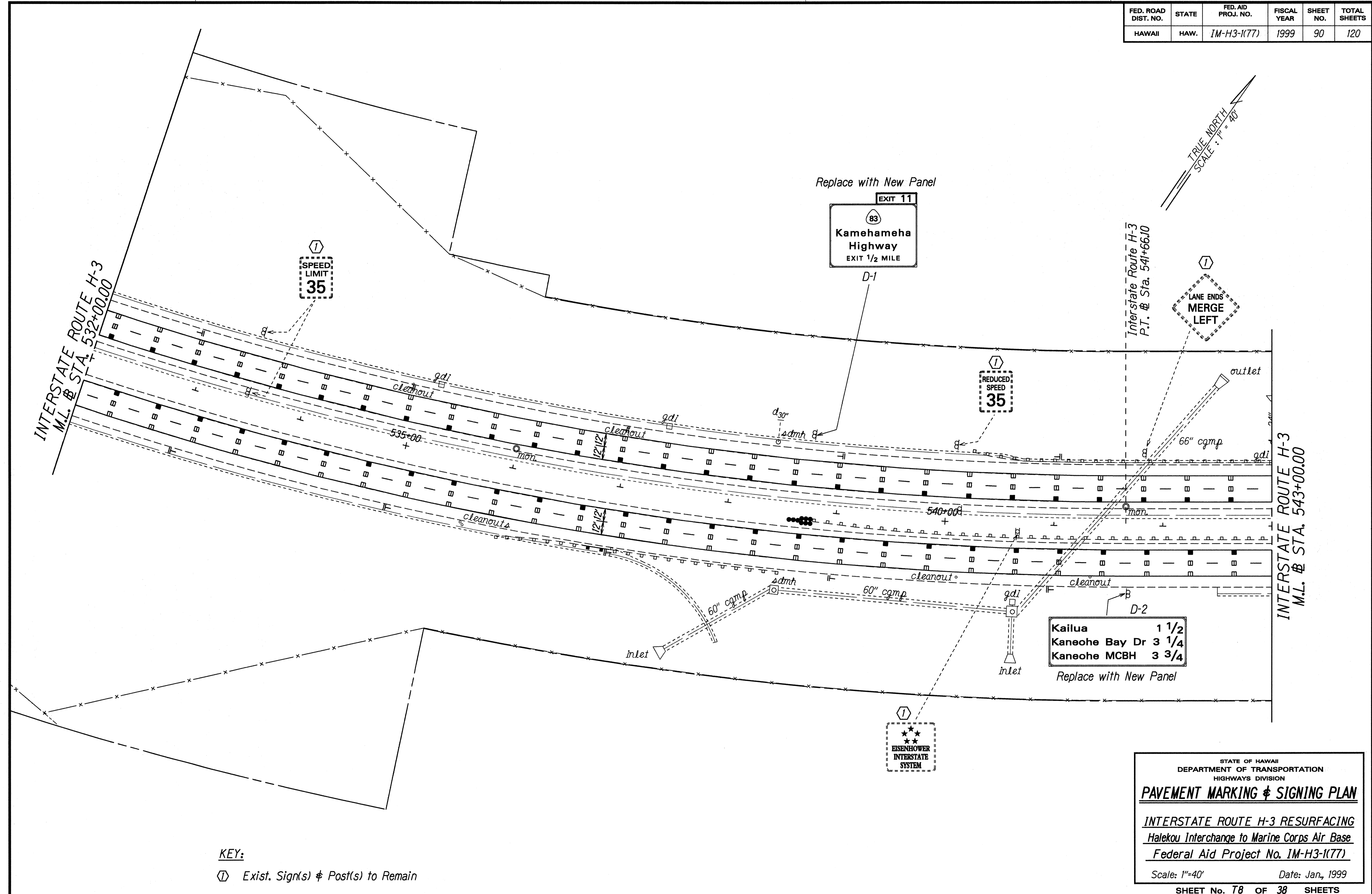
PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. 77 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H3-1(77)	1999	90	120

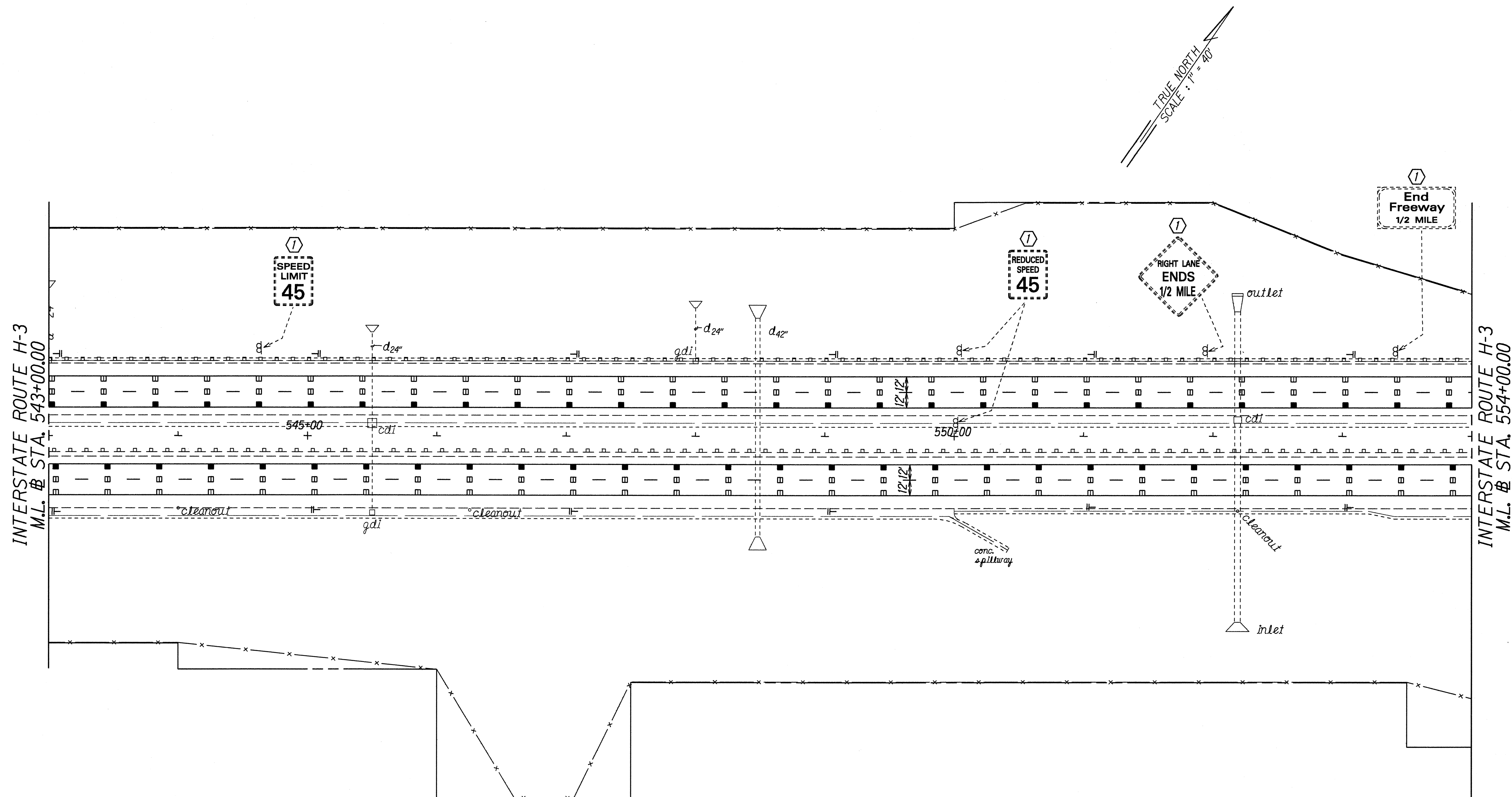


SURVEY PLOTTED BY: DATE: 7/16/97
 DRAWN BY: R. Acil
 CHECKED BY: G. Kakehi, Steven Y.
 ORIGINAL PLAN: rlr/rby
 NOTE BOOK: N. 21131605

KEY:
 (1) Exist. Sign(s) & Post(s) to Remain

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING & SIGNING PLAN
 INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. 1M-H3-1(77)
 Scale: 1"=40' Date: Jan., 1999
 SHEET No. 78 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	91	120



ORIGINAL PLAN	DATE
NOTED	7/16/97
DESIGNED BY G. Kakahi, Steven Y.	
QUANTITIES BY	
CHECKED BY	

KEY:
 (1) Exist. Sign(s) & Post(s) to Remain

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

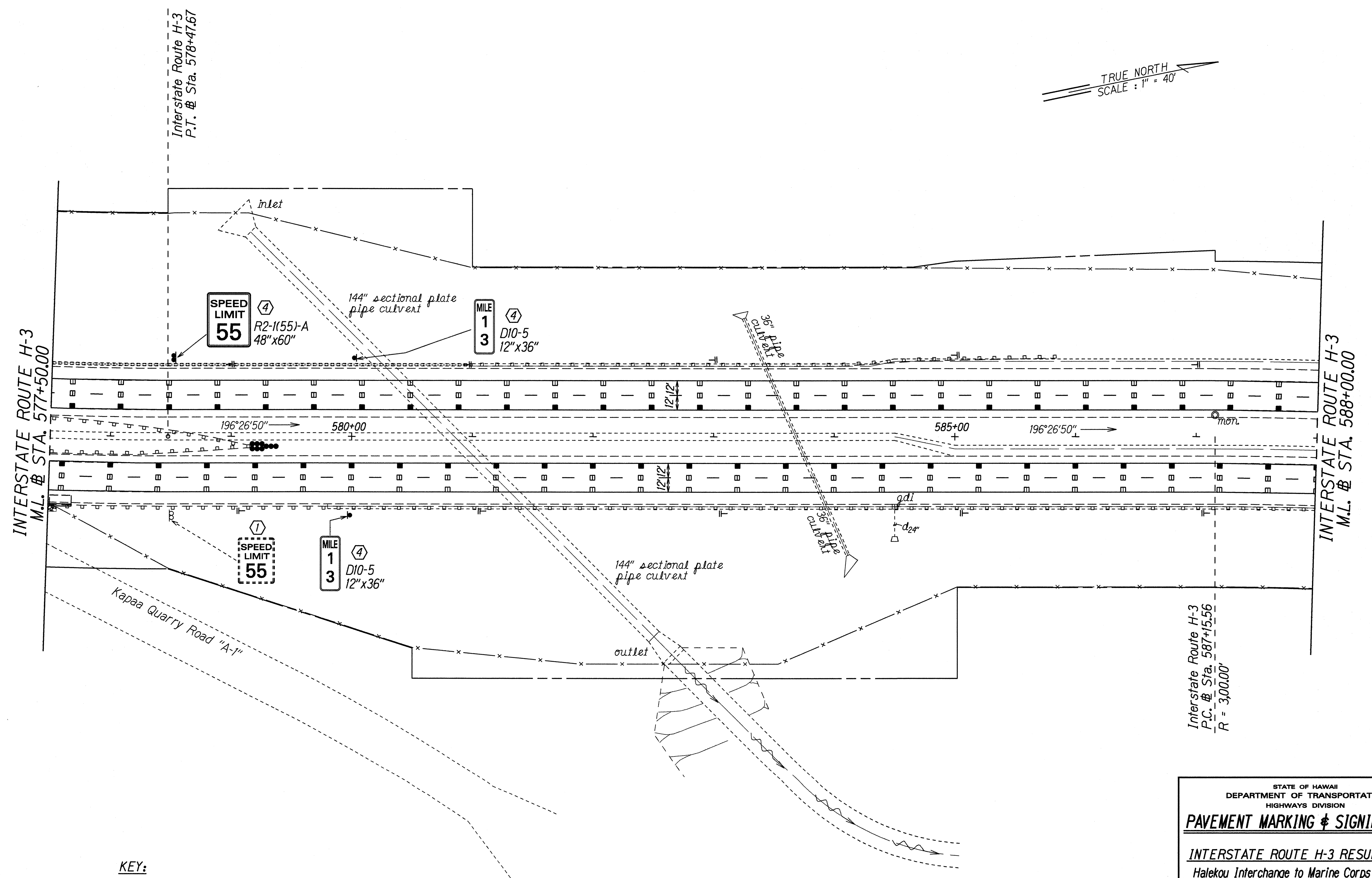
*INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-1(77)*

Scale: 1"=40' Date: Jan, 1999

SHEET No. 79 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	94	120

TRUE NORTH
SCALE: 1" = 40'



KEY:
 ① Exist. Sign(s) & Post(s) to Remain
 ④ Install New Sign w/Post(s)

SURVEY PLOTTED BY	DATE
DRAWN BY B. Acti	7/16/91
TRACED BY G. Karahi, Steven Y.	
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	
NO. 2113712/9	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

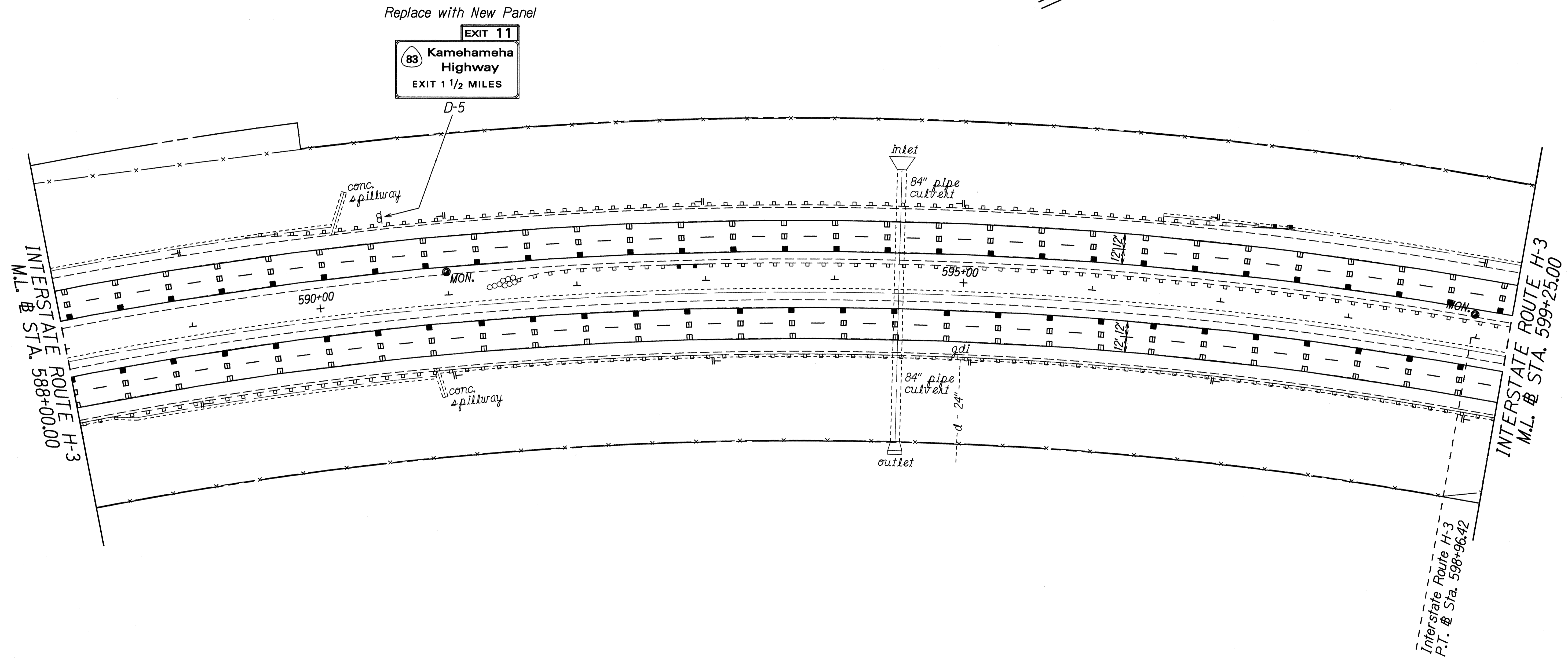
INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. 112 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H3-1(77)	1999	95	120

TRUE NORTH
SCALE: 1" = 40'



SURVEY PLOTTED BY	DATE
DRAWN BY <i>E. Acll</i>	7/16/99
TRACED BY	
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTES BOOK	
DATE	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

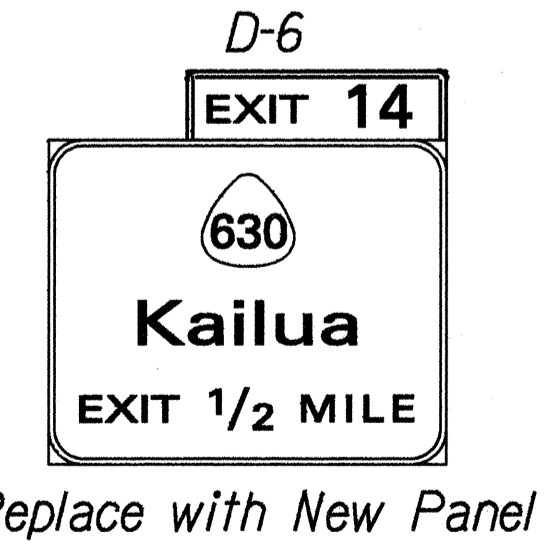
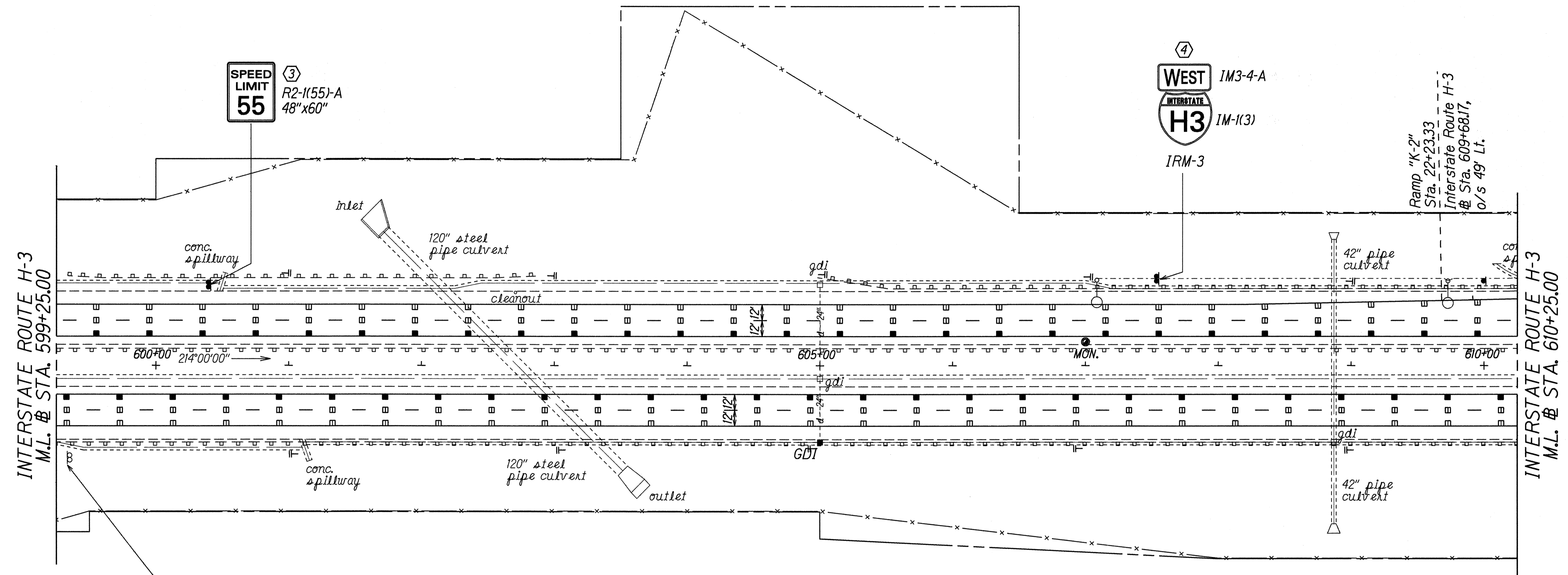
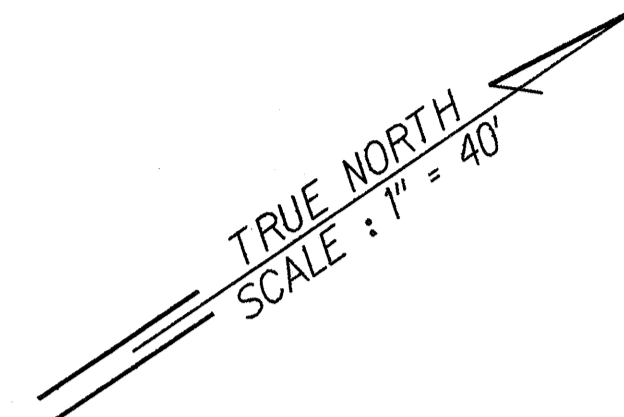
PAVEMENT MARKING & SIGNING PLAN

*INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. 1M-H3-1(77)*

Scale: 1"=40' Date: Jan., 1999

SHEET No. 113 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	96	120



- KEY:**
- ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ④ Install New Sign(s) w/Post(s)

SURVEY PLOTTED BY	DATE
DRAWN BY	7/16/99
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
FILED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

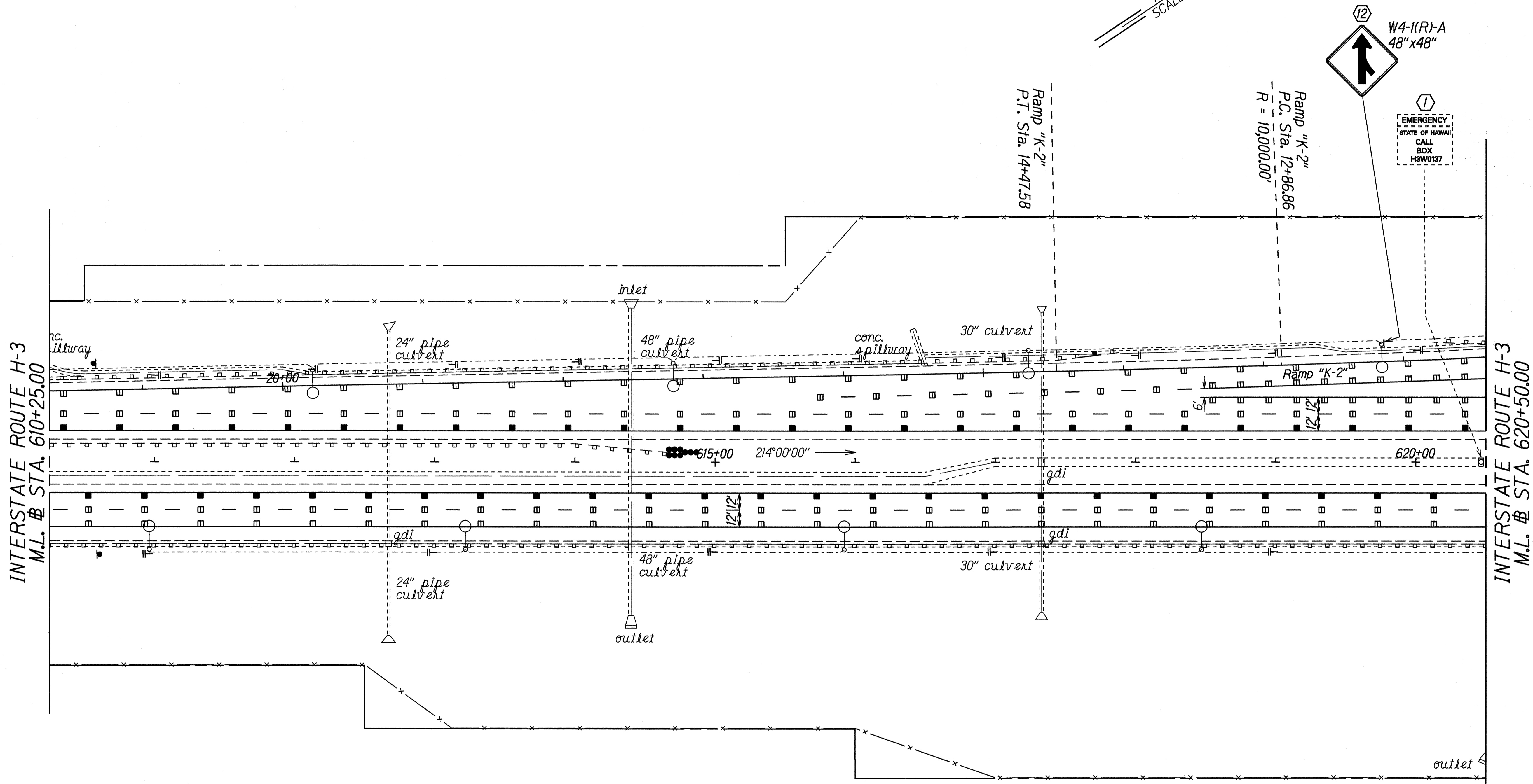
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan, 1999

SHEET No. 114 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H3-1(77)	1999	97	120

TRUE NORTH
SCALE: 1" = 40'



DATE	7/16/97
SURVEY PLOTTED BY	
DRAWN BY	H. Hill
TRACED BY	G. Kakehi, Steven Y.
NOTE BOOK	Idi Ruby
QUANTITIES BY	
CHECKED BY	
NO.	2113102

KEY:
 (1) Exist. Sign(s) & Post(s) to Remain
 (2) Install New Sign

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

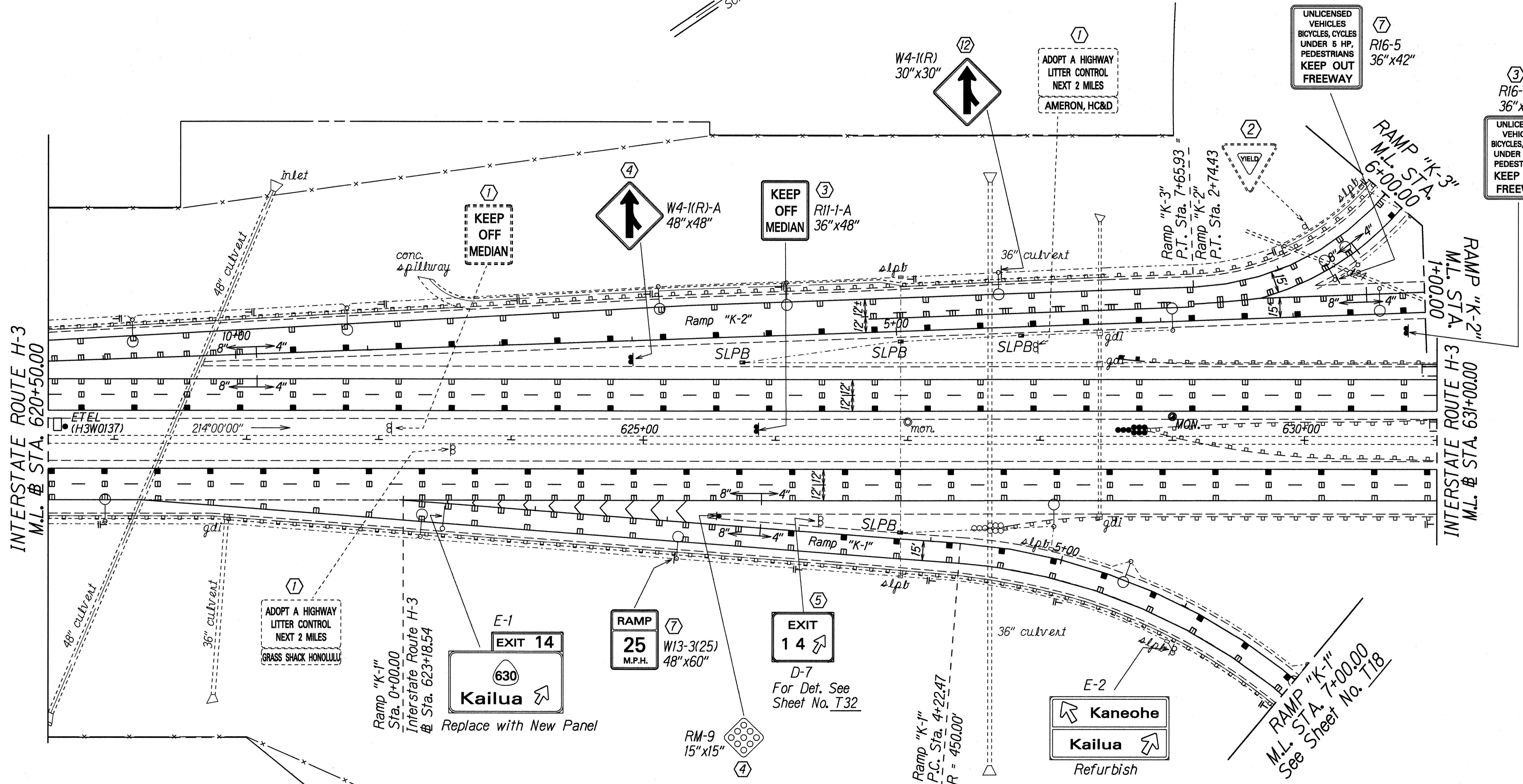
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. 1M-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. 115 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	98	120

TRUE NORTH
SCALE: 1" = 40'



KEY:

- ① Exist. Sign(s) & Post(s) to Remain
- ② Remove Exist. Sign(s) & Post(s)
- ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
- ④ Install New Sign(s) w/Post(s)
- ⑤ Remove Exist. Sign(s) & Install New on Exist. Post(s)
- ⑦ Remove Exist. Sign & Install New on Hwy. Light Pole
- ⑫ Install New Sign

SURVEY PLOTTED BY: ZLW/91
 DRAWN BY: B. Ach
 DESIGNED BY: G. Kageh, Steven Y.
 CHECKED BY: [blank]
 ORIGINAL PLAN: [blank]
 NOTE BOOK: [blank]
 NO. 2113173

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

*INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)*

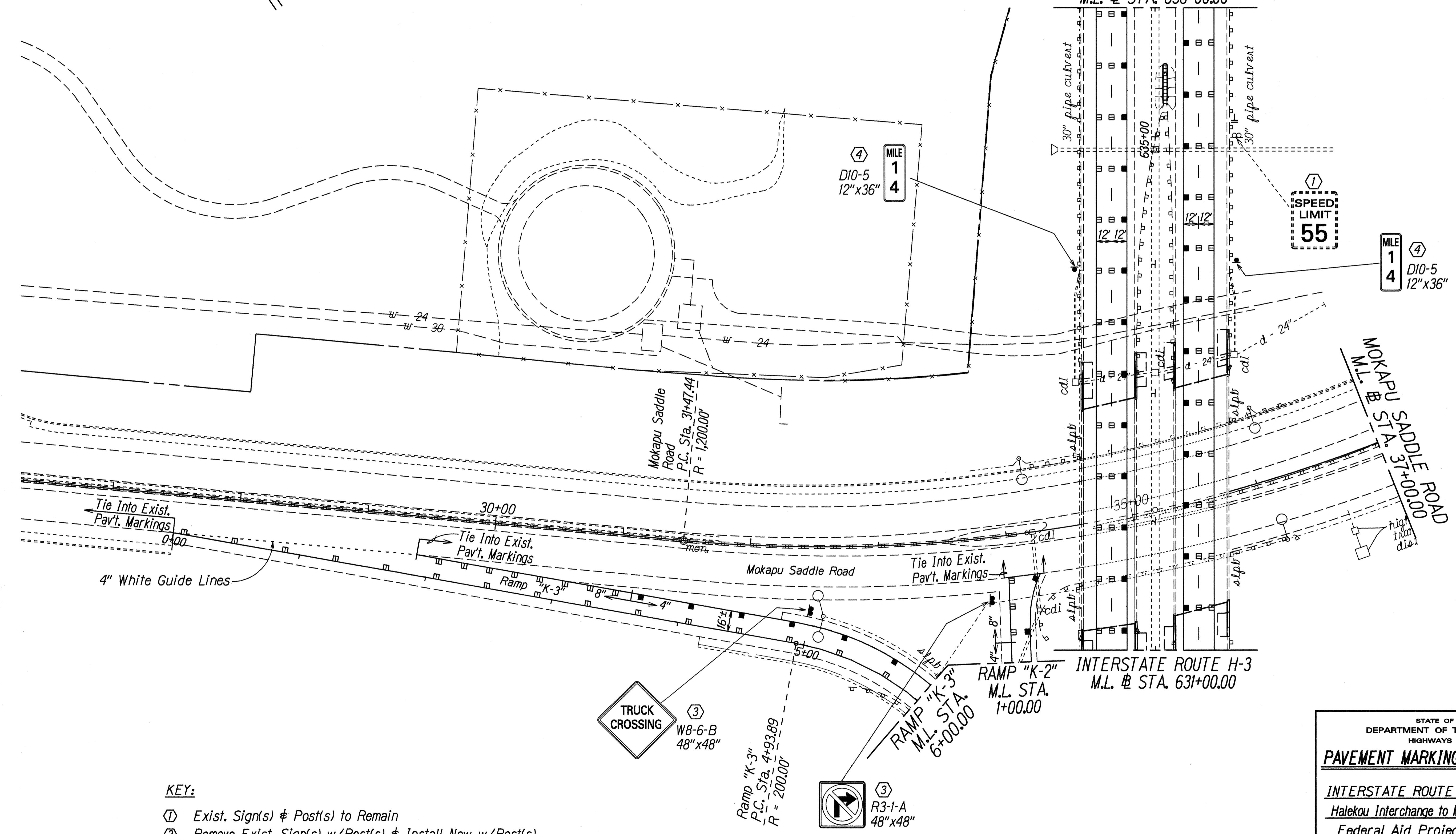
Scale: 1"=40' Date: Jan., 1999

SHEET No. T16 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	99	120

TRUE NORTH
SCALE: 1" = 40'

See Plan Sheet No. T19
INTERSTATE ROUTE
M.L. # STA. 636+00.00



DATE	7/16/99
SURVEY PLOTTED BY	
DRAWN BY	H. Acl
TRACED BY	G. Ketchel, Steven Y.
NOTE BOOK	
BY	John Ruby
QUANTITIES BY	
CHECKED BY	
NO.	211311p4

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ④ Install New Sign(s) w/Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

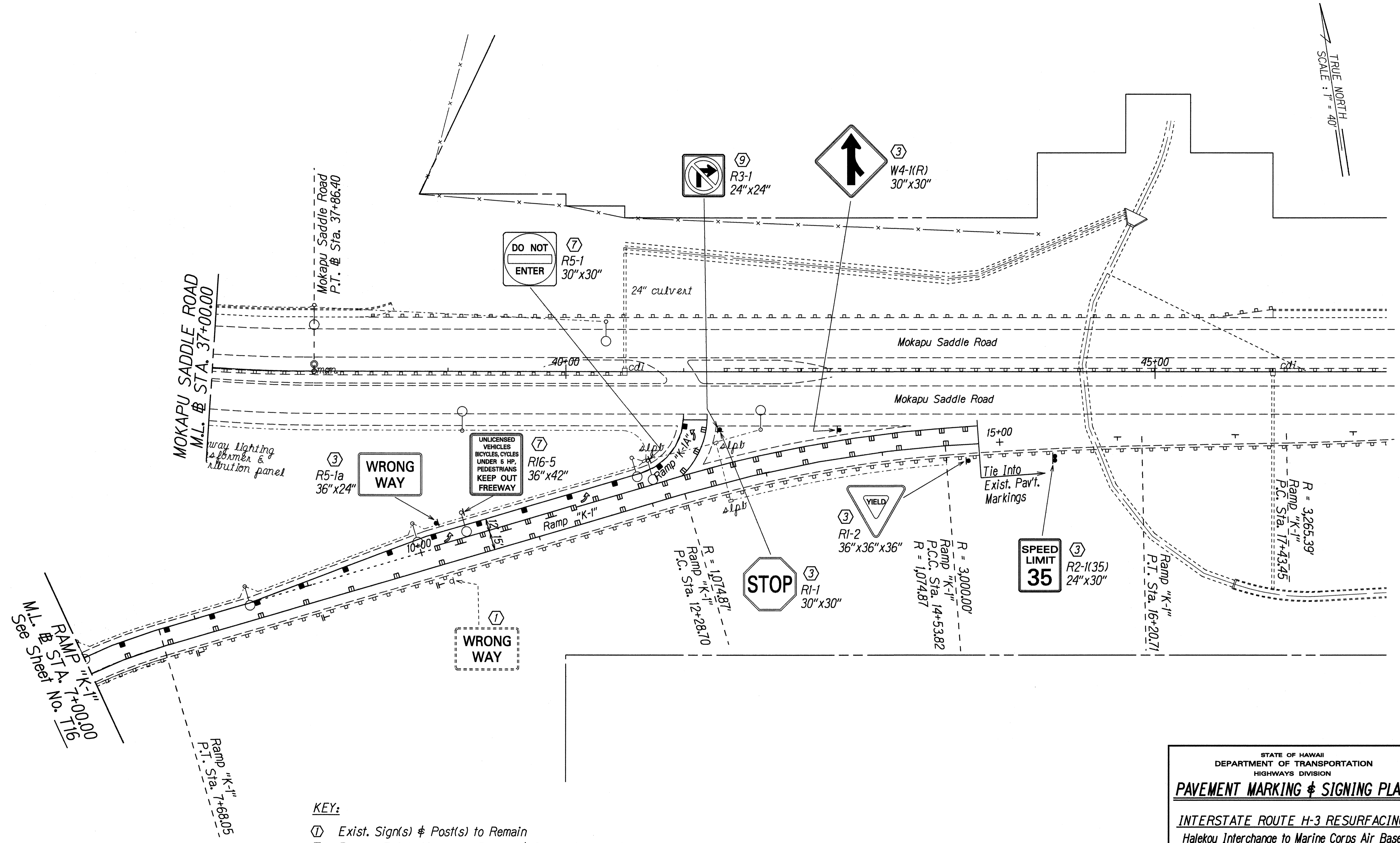
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T17 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	100	120

TRUE NORTH
SCALE: 1" = 40'



M.L. See Sheehy
RAMP "K-1"
STA. 7+00.00
No. 116

MOKAPU SADDLE ROAD
M.L. STA. 37+00.00

Mokapu Saddle Road
P.T. Sta. 37+86.40

way lighting
transformer &
distribution panel

R5-1a
36"x24"

WRONG WAY

UNLICENSED
VEHICLES,
BICYCLES, CYCLES
UNDER 5 HP,
PEDESTRIANS
KEEP OUT
FREEWAY

R16-5
36"x42"

STOP
R1-1
30"x30"

YIELD
R1-2
36"x36"x36"

SPEED LIMIT
35
R2-1(35)
24"x30"

WRONG WAY

Ramp "K-1"
P.T. Sta. 7+68.05

R = 1074.87'
Ramp "K-1"
P.C. Sta. 12+28.70

R = 3000.00'
Ramp "K-1"
P.C.C. Sta. 14+53.82
R = 1074.87'

Ramp "K-1"
P.T. Sta. 16+20.71

R = 3265.39'
Ramp "K-1"
P.C. Sta. 17+43.45

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ⑦ Remove Exist. Sign & Install New on Hwy. Light Pole
 - ⑨ Remove Exist. Sign(s) & Install New

SURVEY PLOTTED BY	DATE
DRAWN BY	7/16/98
TRACED BY	
NOTE BOOK	
QUANTITIES BY	G. KAGABI, STATION Y.
CHECKED BY	Idi Ruby
	No. 21037195

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

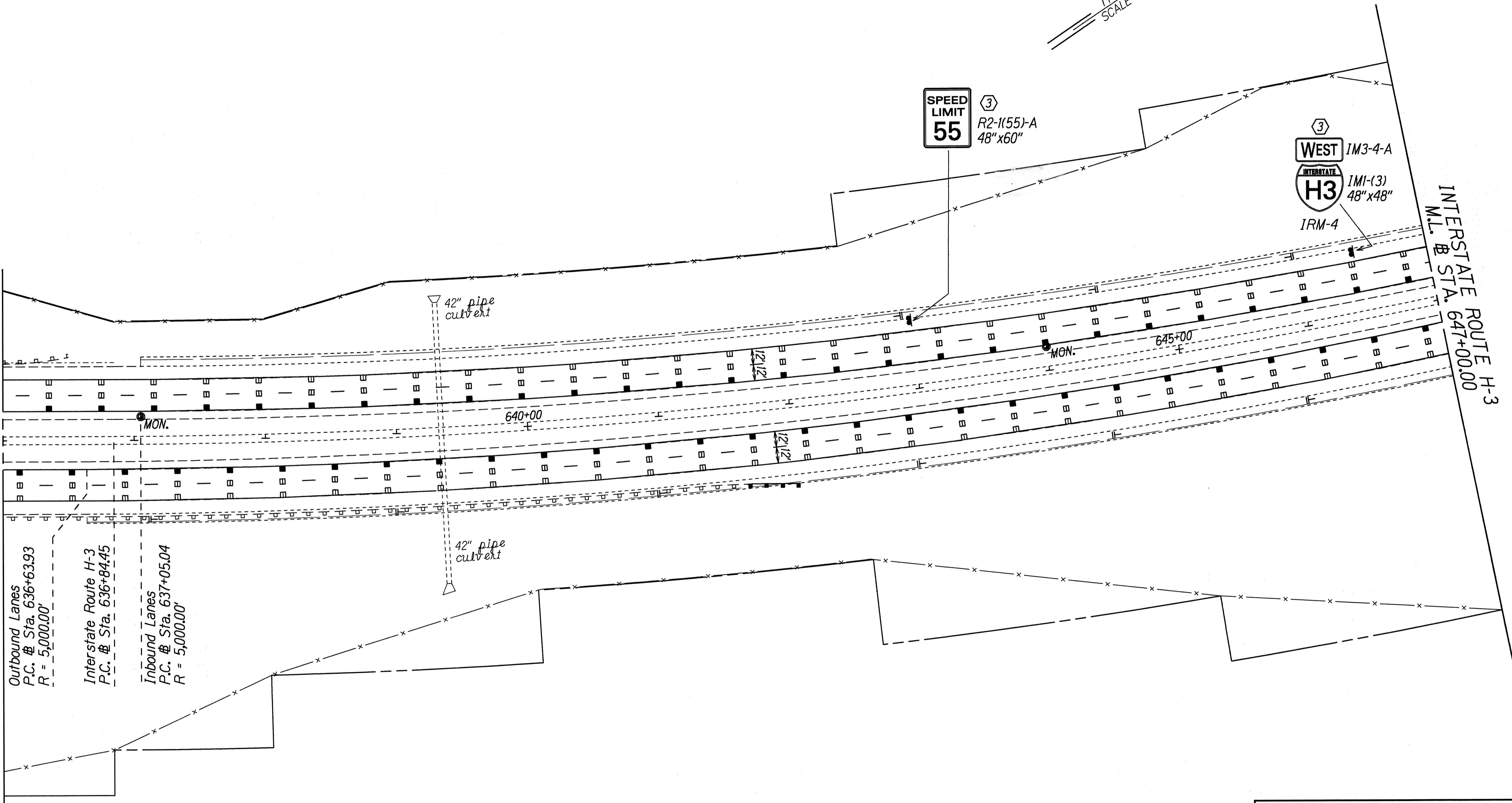
Scale: 1"=40' Date: Jan., 1999

SHEET No. 118 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	101	120

TRUE NORTH
SCALE: 1" = 40'

See Sheet No. 117
INTERSTATE ROUTE H-3
M.L. # STA. 636+00.00



Outbound Lanes
P.C. # Sta. 636+63.93
R = 5,000.00'

Interstate Route H-3
P.C. # Sta. 636+84.45

Inbound Lanes
P.C. # Sta. 637+05.04
R = 5,000.00'

SPEED LIMIT 55
R2-1(55)-A
48" x 60"

WEST
INTERSTATE H3
IM3-4-A
IM1-(3)
48" x 48"
IRM-4

INTERSTATE ROUTE H-3
M.L. # STA. 647+00.00

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	7/17/91
DRAWN BY	B. Aril
NOTE BOOK	
QUANTITIES BY	G. Kameh, Steven Y.
CHECKED BY	
	No. 2/13/96

KEY:
③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

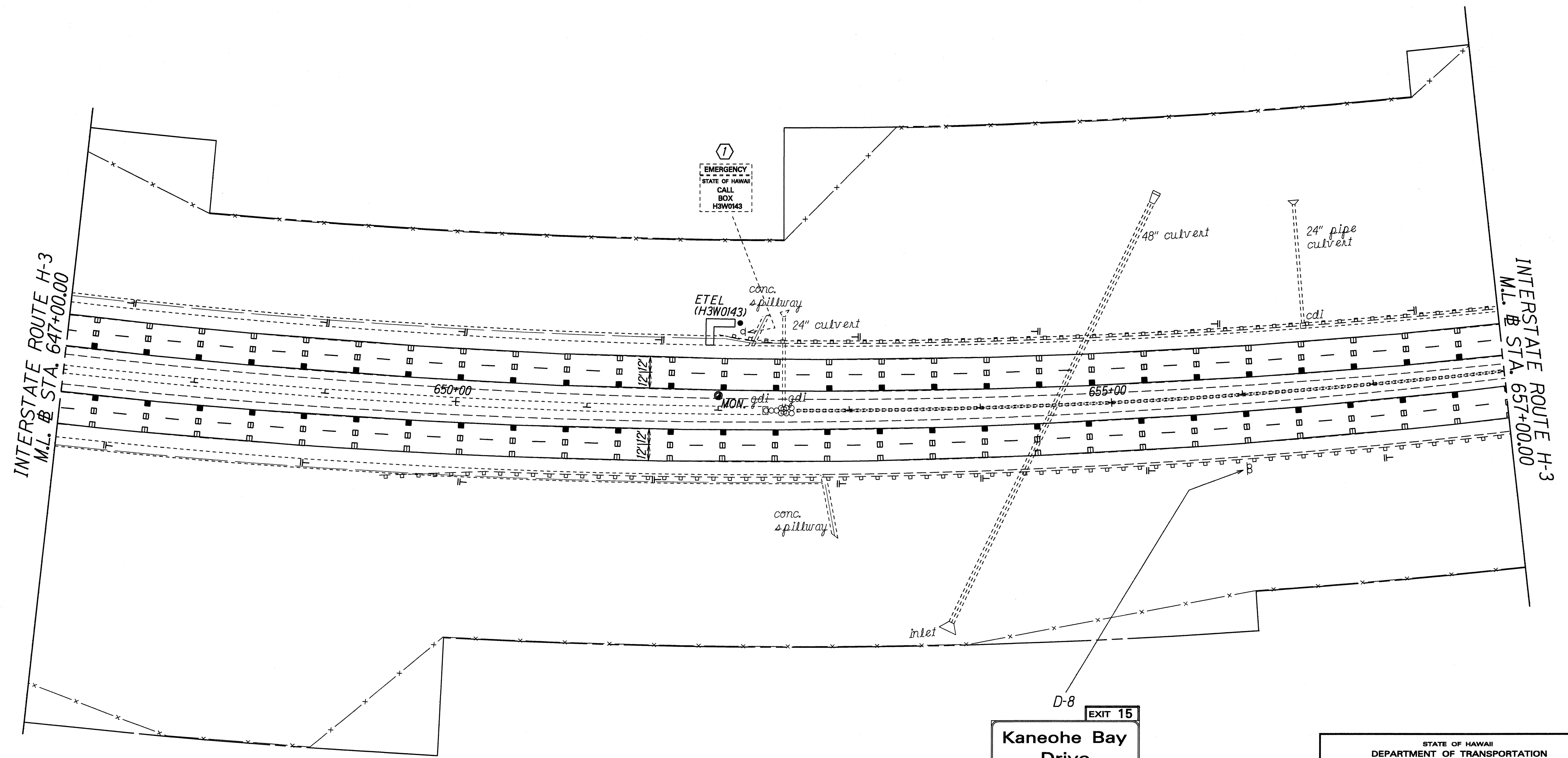
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. 119 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	102	120

TRUE NORTH
SCALE: 1" = 40'



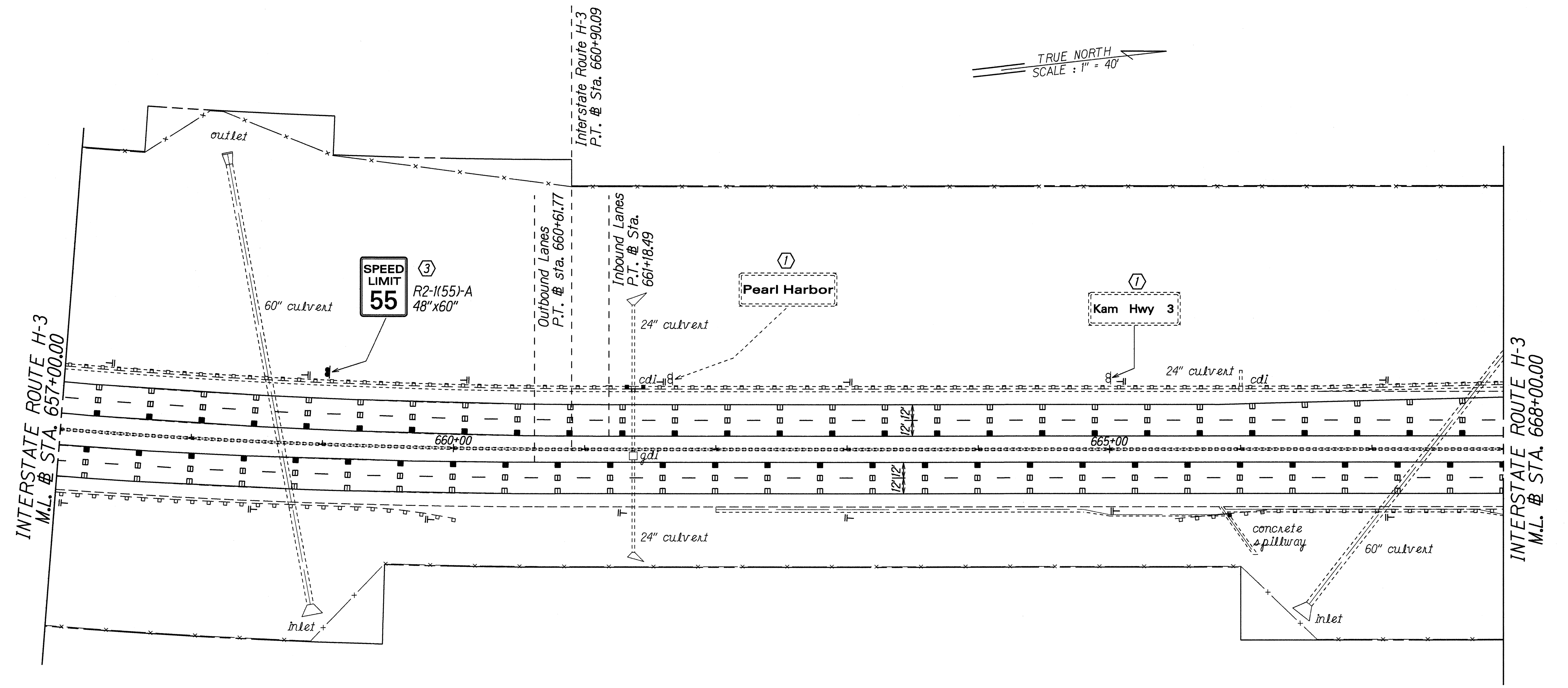
SURVEY PLOTTED BY: DATE: 7/17/99
 DRAWN BY: B. Hill
 TRACED BY: G. Kakehi, Steven Y.
 QUANTITIES BY: Ted Ruby
 CHECKED BY: N. 2/13/99

KEY:
 (1) Exist. Sign(s) & Post(s) to Remain

D-8
Kaneohe Bay Drive
 EXIT 1 MILE
 Replace w/New Panel

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING & SIGNING PLAN
 INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-1(77)
 Scale: 1"=40' Date: Jan., 1999
 SHEET No. T20 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	103	120



SURVEY PLOTTED BY	DATE
DRAWN BY B. Acil	1/17/99
TRACED BY G. Kakahi, Steven Y.	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

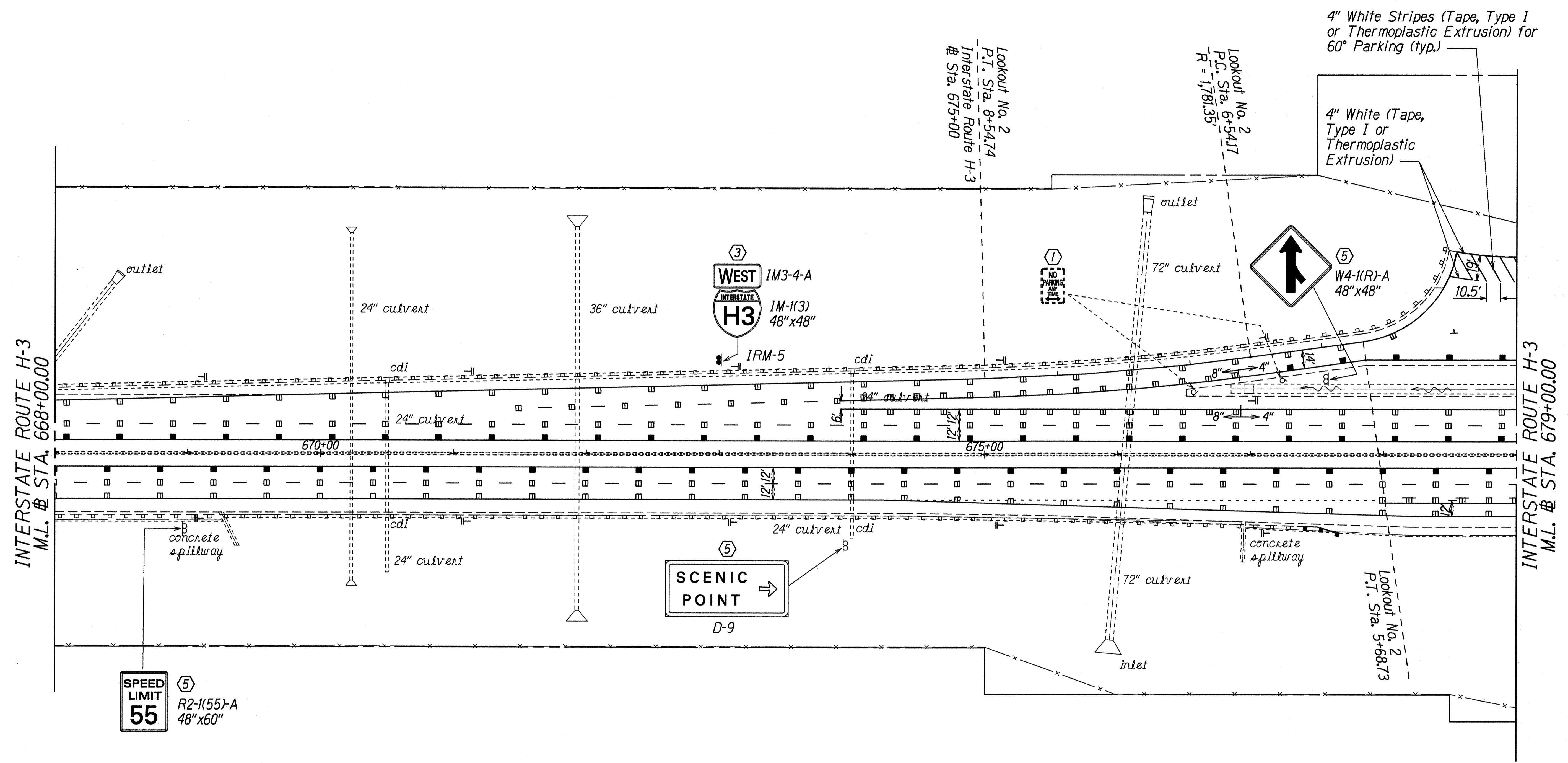
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T21 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	104	120

TRUE NORTH
SCALE: 1" = 40'



INTERSTATE ROUTE H-3
M.L. & STA. 668+00.00

INTERSTATE ROUTE H-3
M.L. & STA. 679+00.00

⑤
SPEED LIMIT
55
R2-1(55)-A
48"x60"

⑤
SCENIC POINT
D-9

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ⑤ Remove Exist. Sign & Install New on Exist. Post(s)

SURVEY PLOTTED BY	DATE	7/17/99
DRAWN BY	H. Aoki	
DESIGNED BY	G. Kakehi, Steven Y.	
NOTED BY	T. Ruby	
QUANTITIES BY	N. 2/13/99	
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T22 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	105	120

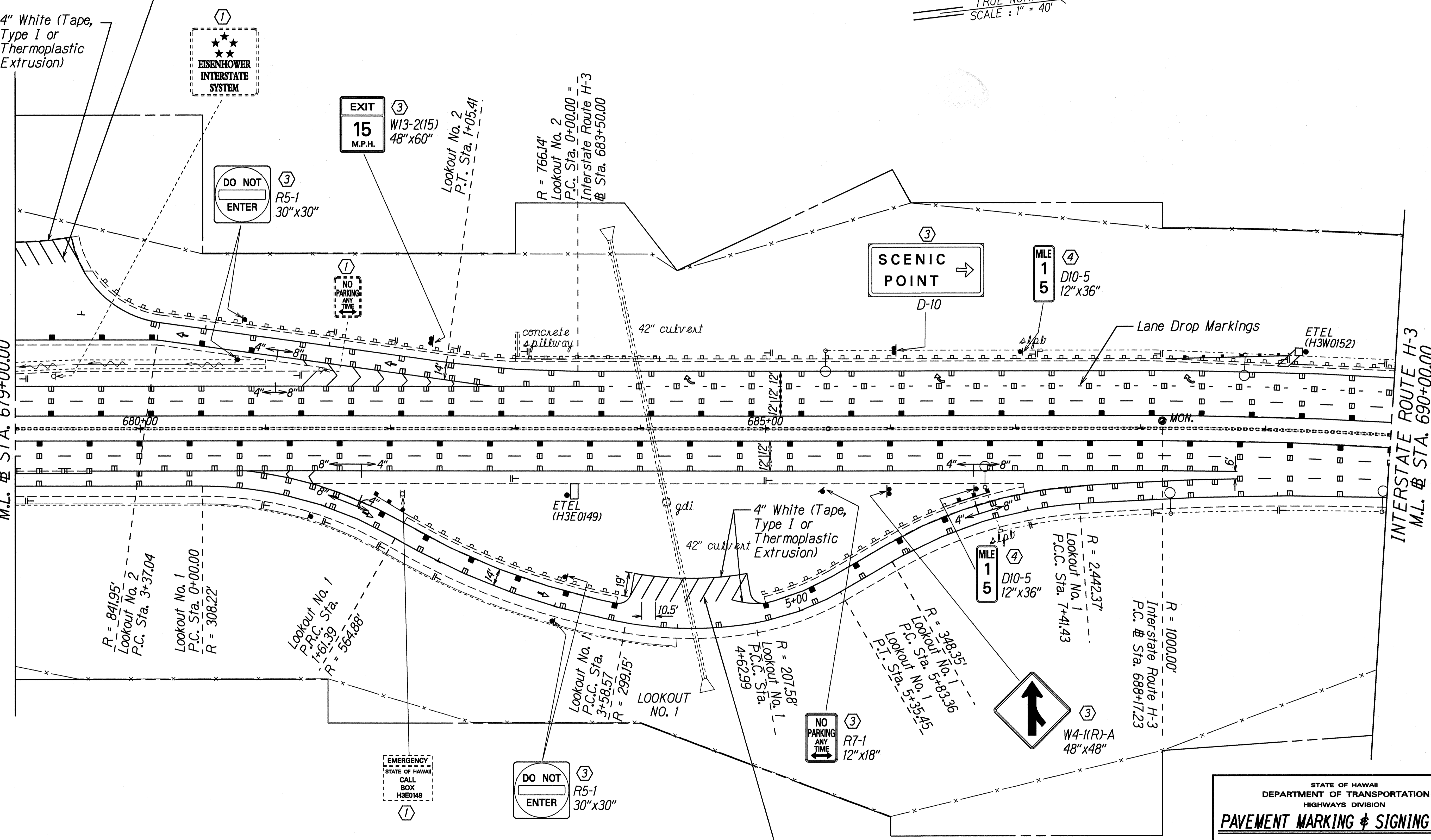
4" White Stripes (Tape, Type I or Thermoplastic Extrusion) for 60° Parking (typ.)

4" White (Tape, Type I or Thermoplastic Extrusion)

TRUE NORTH
SCALE: 1" = 40'

INTERSTATE ROUTE H-3
M.L. # STA. 679+00.00

INTERSTATE ROUTE H-3
M.L. # STA. 690+00.00



DATE	12/12/91
SURVEY PLOTTED BY	EL
DRAWN BY	EL
NOTE BOOK	
DESIGNED BY	G. Kekehi / Steven Y.
QUANTITIES BY	
CHECKED BY	
NO.	2133220

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ④ Install New Sign(s) w/Post(s)

4" White Stripes (Tape, Type I or Thermoplastic Extrusion) for 60° Parking (typ.)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

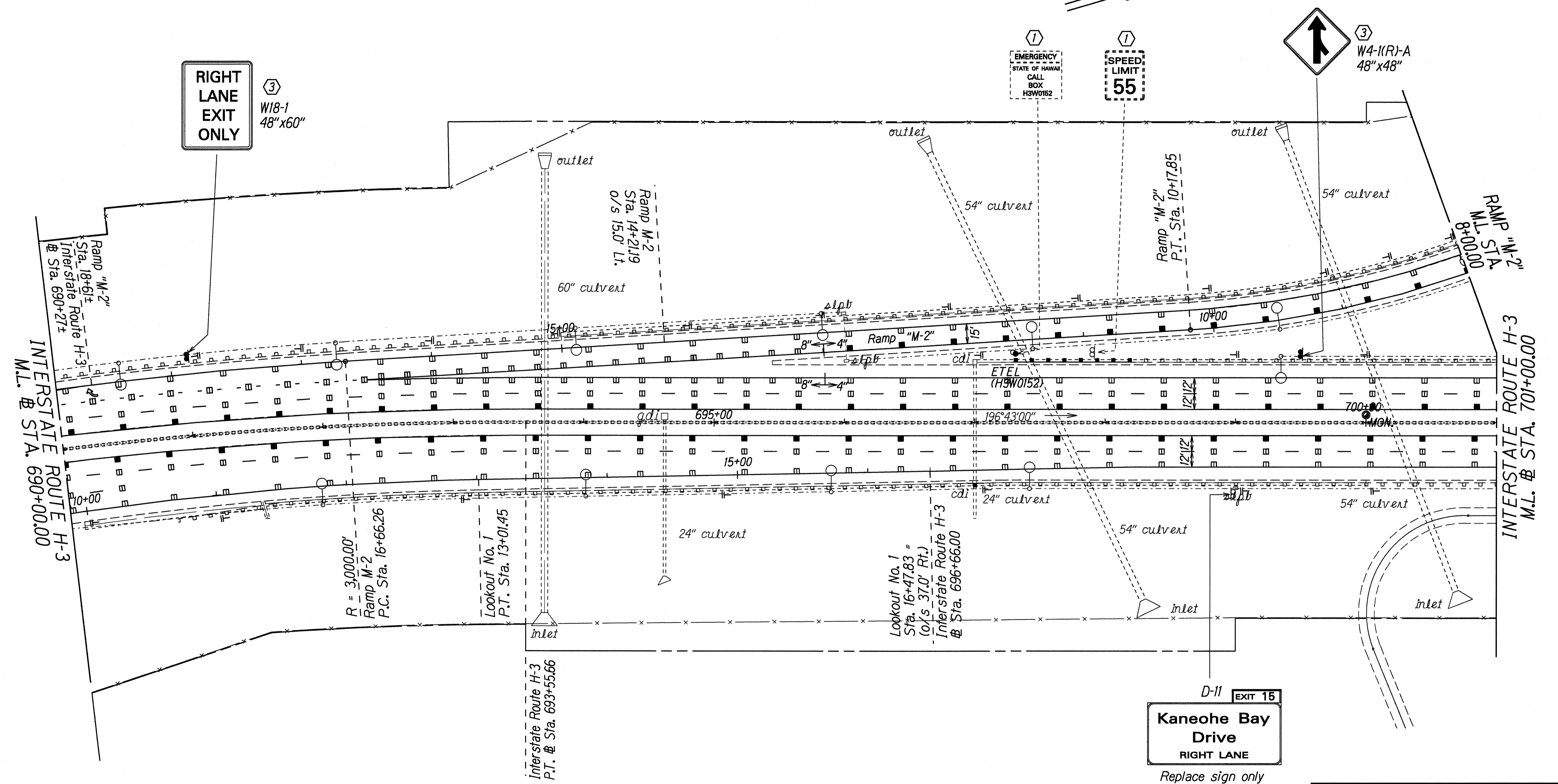
*INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)*

Scale: 1"=40' Date: Jan., 1999

SHEET No. T23 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	106	120

TRUE NORTH
SCALE: 1" = 40'



SURVEY PLOTTED BY: DATE: 1/17/99
 DRAWN BY: H. Hill
 TRACED BY: G. Kashi / Steven Y.
 NOTE BOOK: Ted Ruby
 QUANTITIES BY: N. 2/13/99
 CHECKED BY:

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

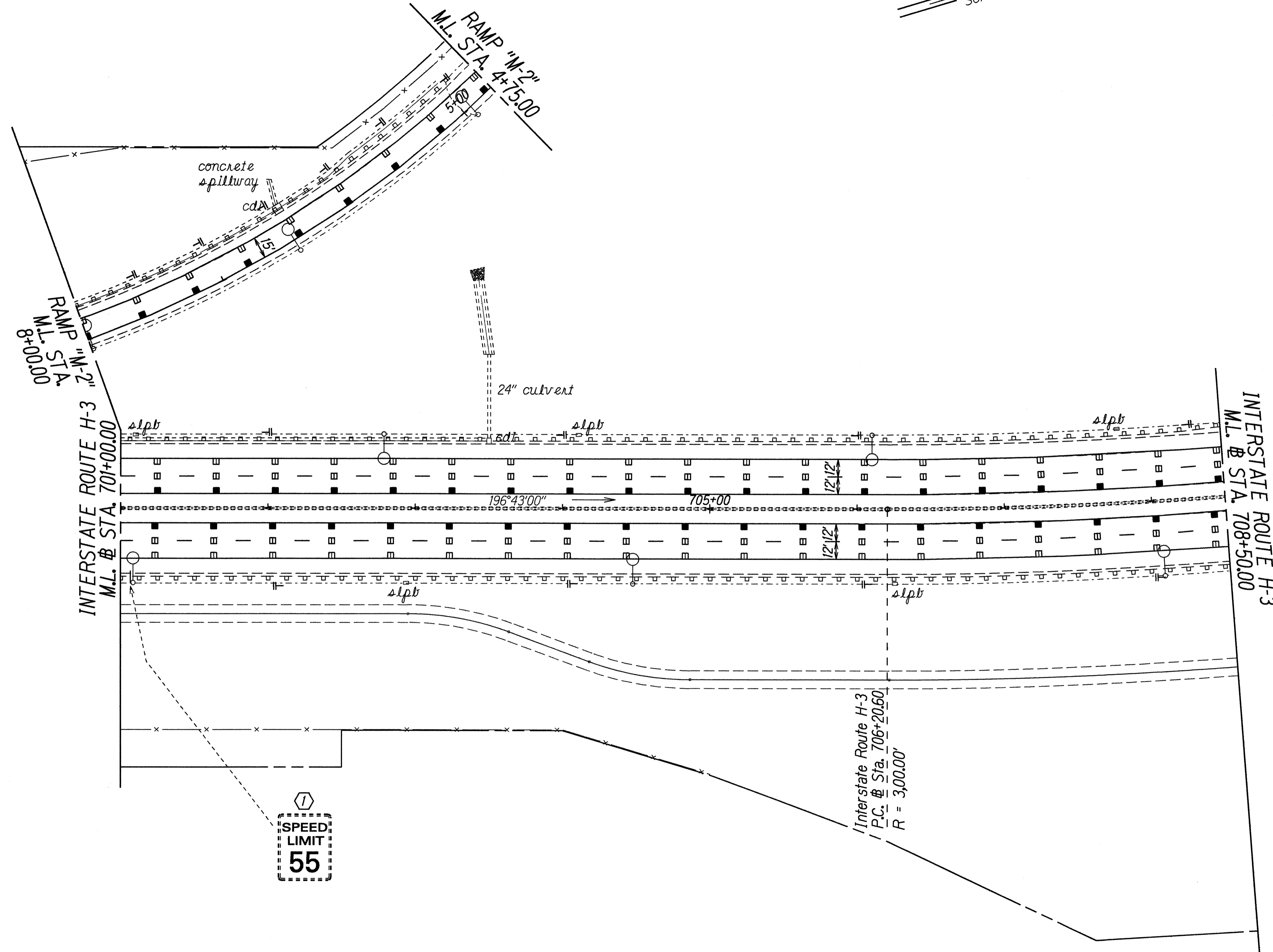
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T24 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	107	120

TRUE NORTH
SCALE: 1" = 40'



SURVEY PLOTTED BY	DATE
DRAWN BY <i>H. Aoki</i>	7/17/99
REVISIONS	
NOTES BOOK	
QUANTITIES BY <i>G. Kameh / Steven Y.</i>	
CHECKED BY	
ORIGINAL PLAN	
DATE	
NO. 21031622	

KEY:
Ⓛ Exist. Sign(s) & Post(s) to Remain

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

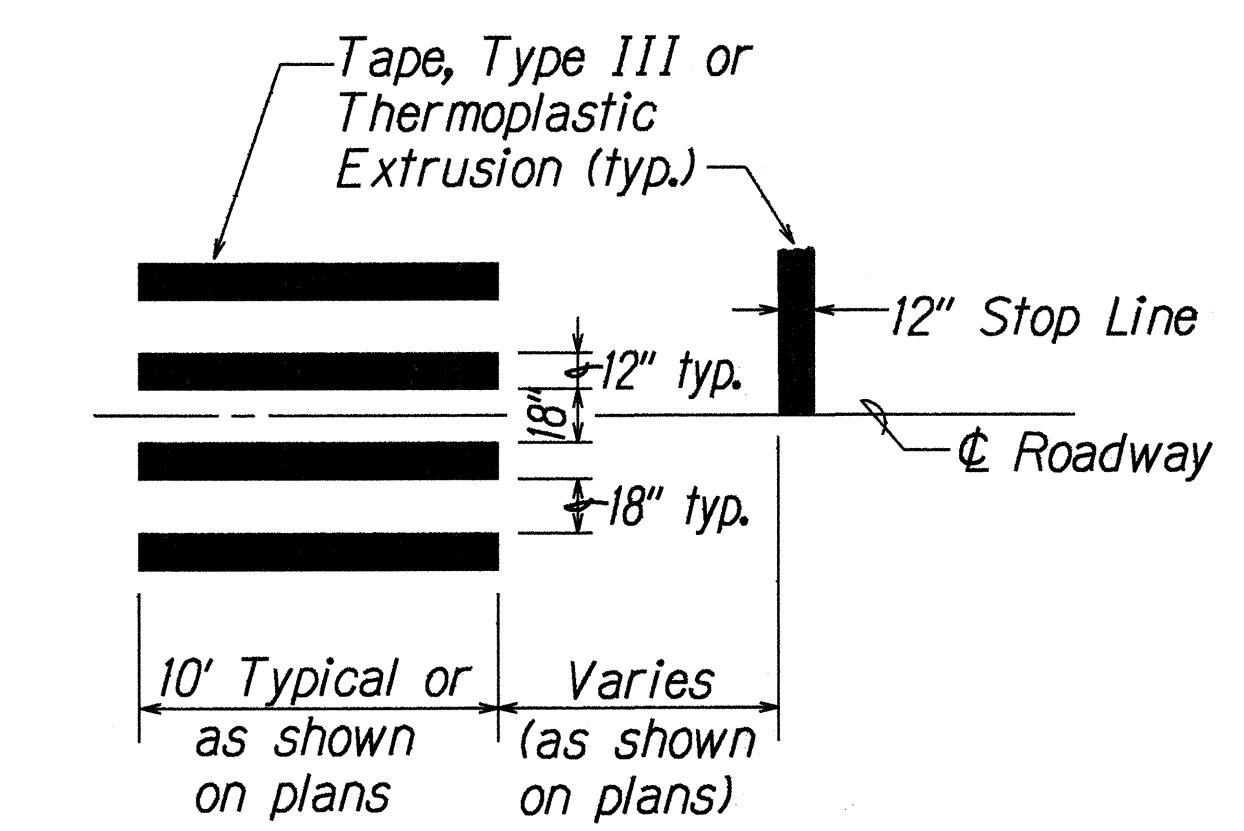
PAVEMENT MARKING & SIGNING PLAN

*INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)*

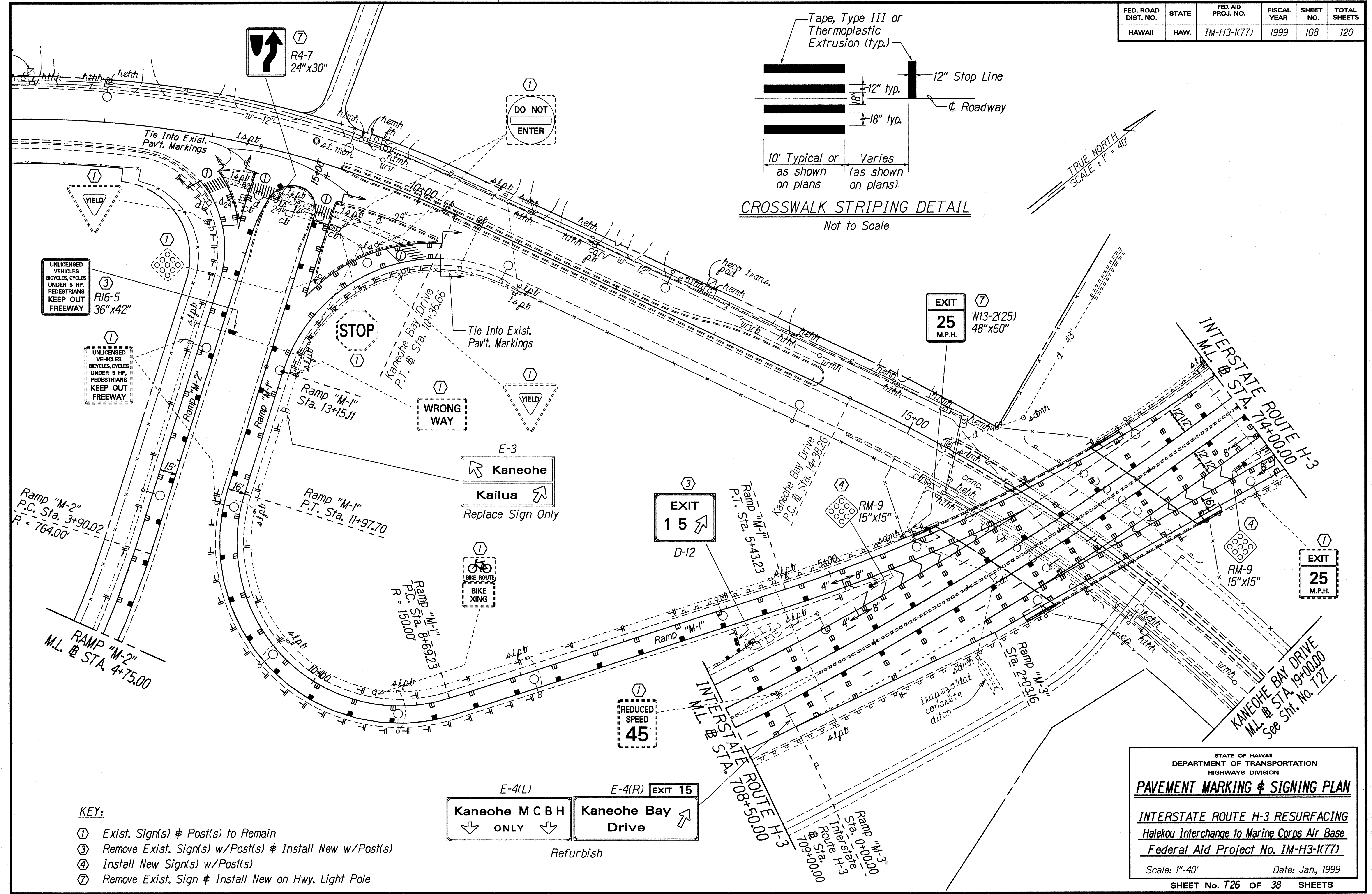
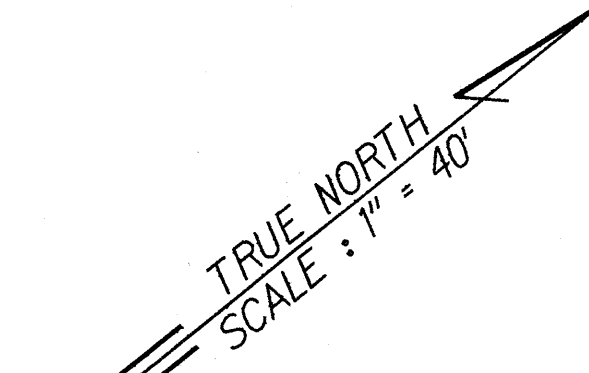
Scale: 1"=40' Date: Jan., 1999

SHEET No. T25 OF 38 SHEETS

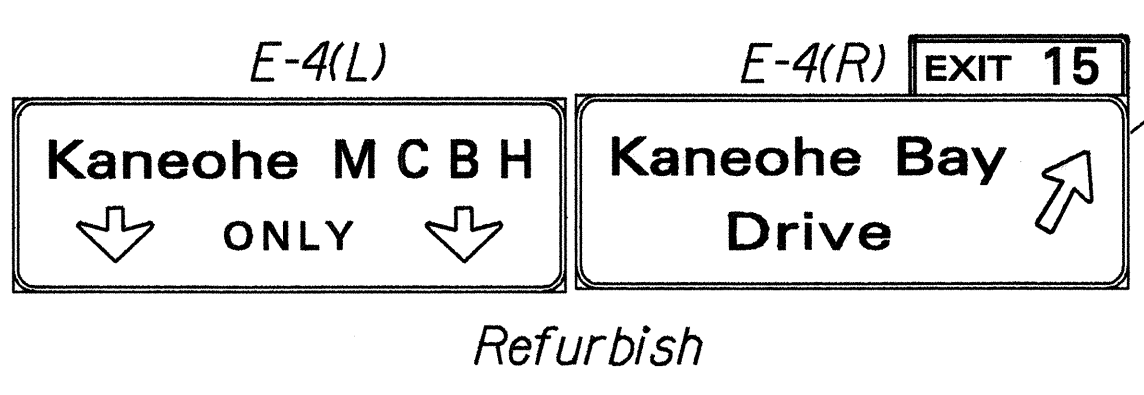
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	108	120



CROSSWALK STRIPING DETAIL
Not to Scale



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑦ Remove Exist. Sign & Install New on Hwy. Light Pole



DATE: 1/17/99
 SURVEY PLOTTED BY: [blank]
 DRAWN BY: B. Hill
 CHECKED BY: [blank]
 ORIGINAL PLAN: [blank]
 NOTE BOOK: [blank]
 REVISIONS: [blank]
 NO. 2/13/923

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

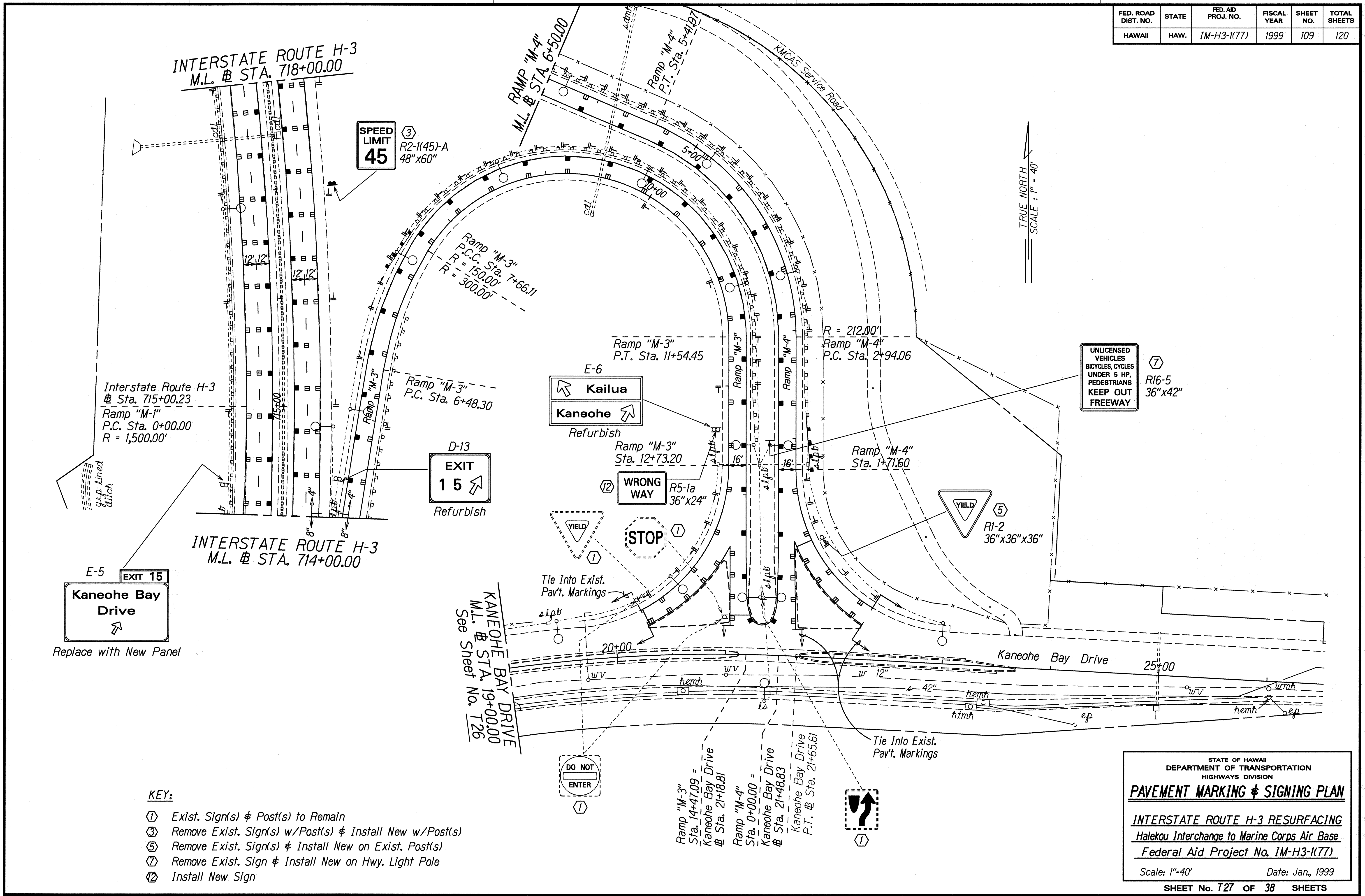
PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T26 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	109	120



INTERSTATE ROUTE H-3
M.L. @ STA. 718+00.00

SPEED LIMIT 45
R2-1(45)-A
48"x60"

Interstate Route H-3
@ Sta. 715+00.23
Ramp "M-1"
P.C. Sta. 0+00.00
R = 1,500.00'

INTERSTATE ROUTE H-3
M.L. @ STA. 714+00.00

E-5 EXIT 15
Kaneohe Bay Drive

Replace with New Panel

D-13 EXIT 15

Refurbish

E-6 Kailua Kaneohe

Refurbish

WRONG WAY
R5-1a
36"x24"

YIELD

STOP

YIELD

R1-2
36"x36"x36"

UNLICENSED VEHICLES
BICYCLES, CYCLES
UNDER 5 HP,
PEDESTRIANS
KEEP OUT
FREEWAY

R16-5
36"x42"

DO NOT ENTER

DO NOT ENTER

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ⑤ Remove Exist. Sign(s) & Install New on Exist. Post(s)
 - ⑦ Remove Exist. Sign & Install New on Hwy. Light Pole
 - ⑫ Install New Sign

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

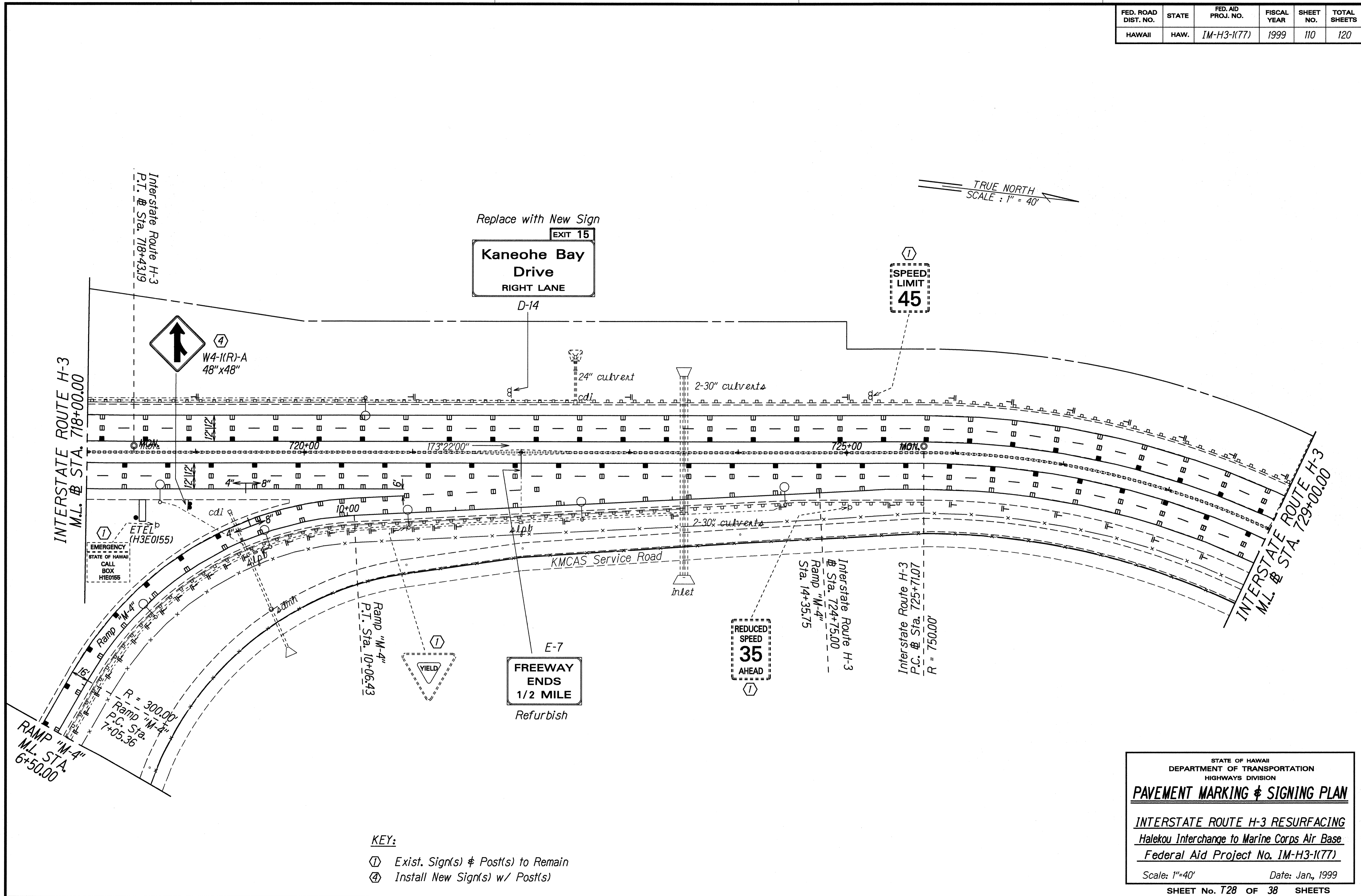
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T27 OF 38 SHEETS

DATE	7/17/91
SURVEY PLOTTED BY	
DRAWN BY	B. Ach
TRACED BY	G. Kakehi / Steven Y.
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE	
NO.	21131624

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	110	120



DATE: 7/17/99
 SURVEY PLOTTED BY: []
 DRAWN BY: R. Acil
 TRACED BY: G. Kameh / Steven Y.
 QUANTITIES BY: []
 CHECKED BY: []
 ORIGINAL PLAN: []
 NOTE BOOK: []
 TEL: Ruby []
 N. 21131225

KEY:
 (1) Exist. Sign(s) & Post(s) to Remain
 (4) Install New Sign(s) w/ Post(s)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

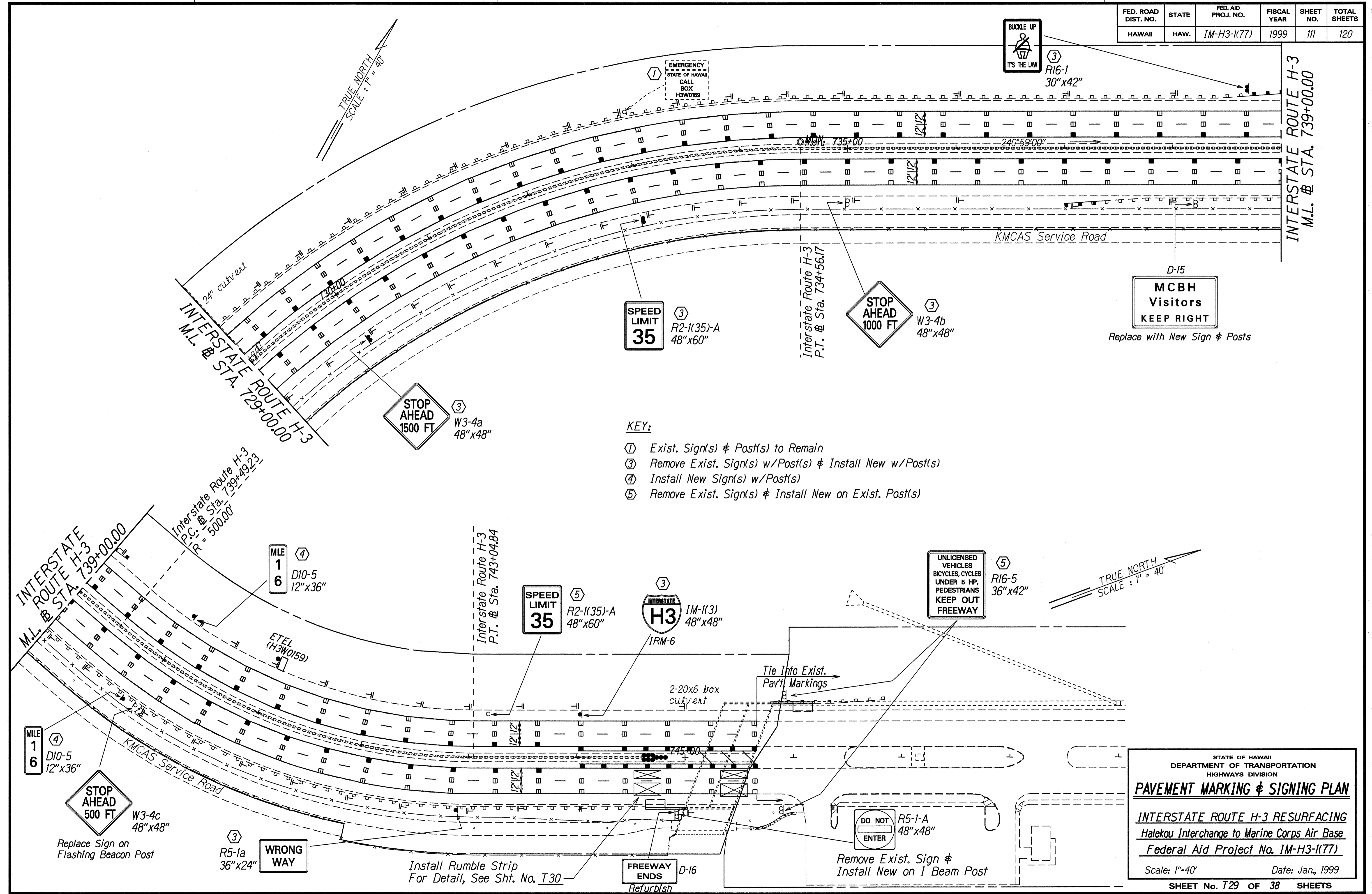
PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-1(77)

Scale: 1"=40' Date: Jan., 1999

SHEET No. T28 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H3-1(77)	1999	111	120

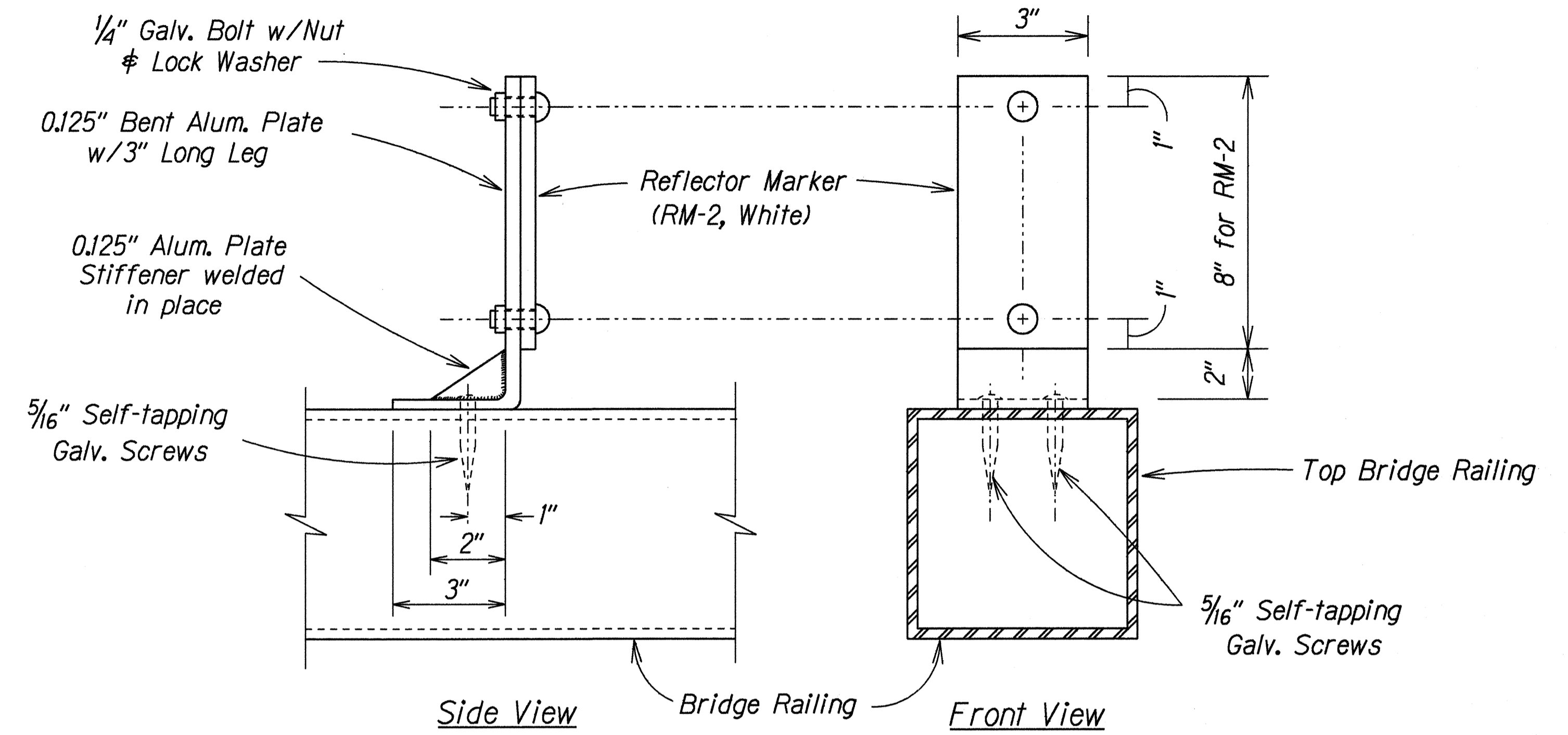
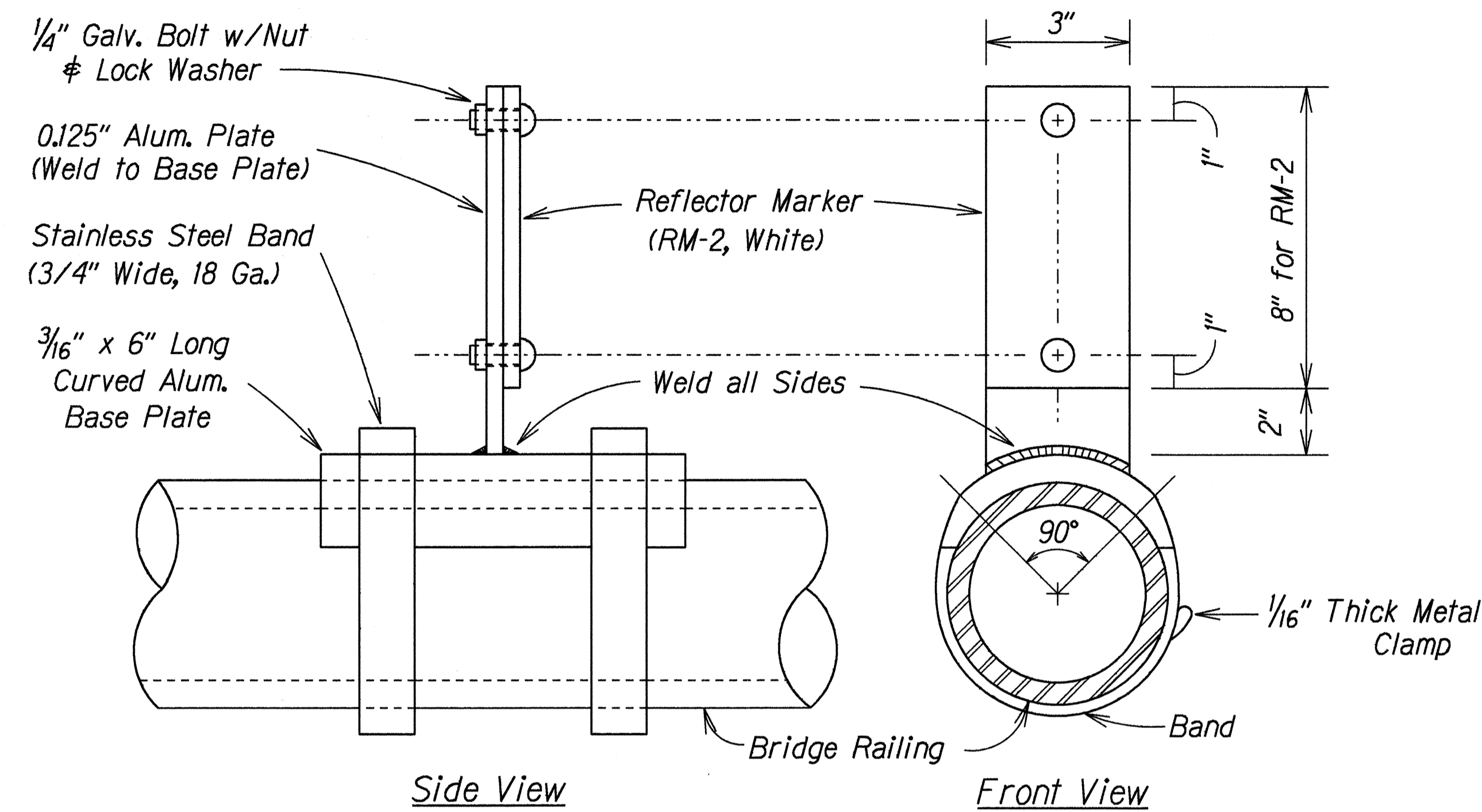


- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Remove Exist. Sign(s) & Install New on Exist. Post(s)

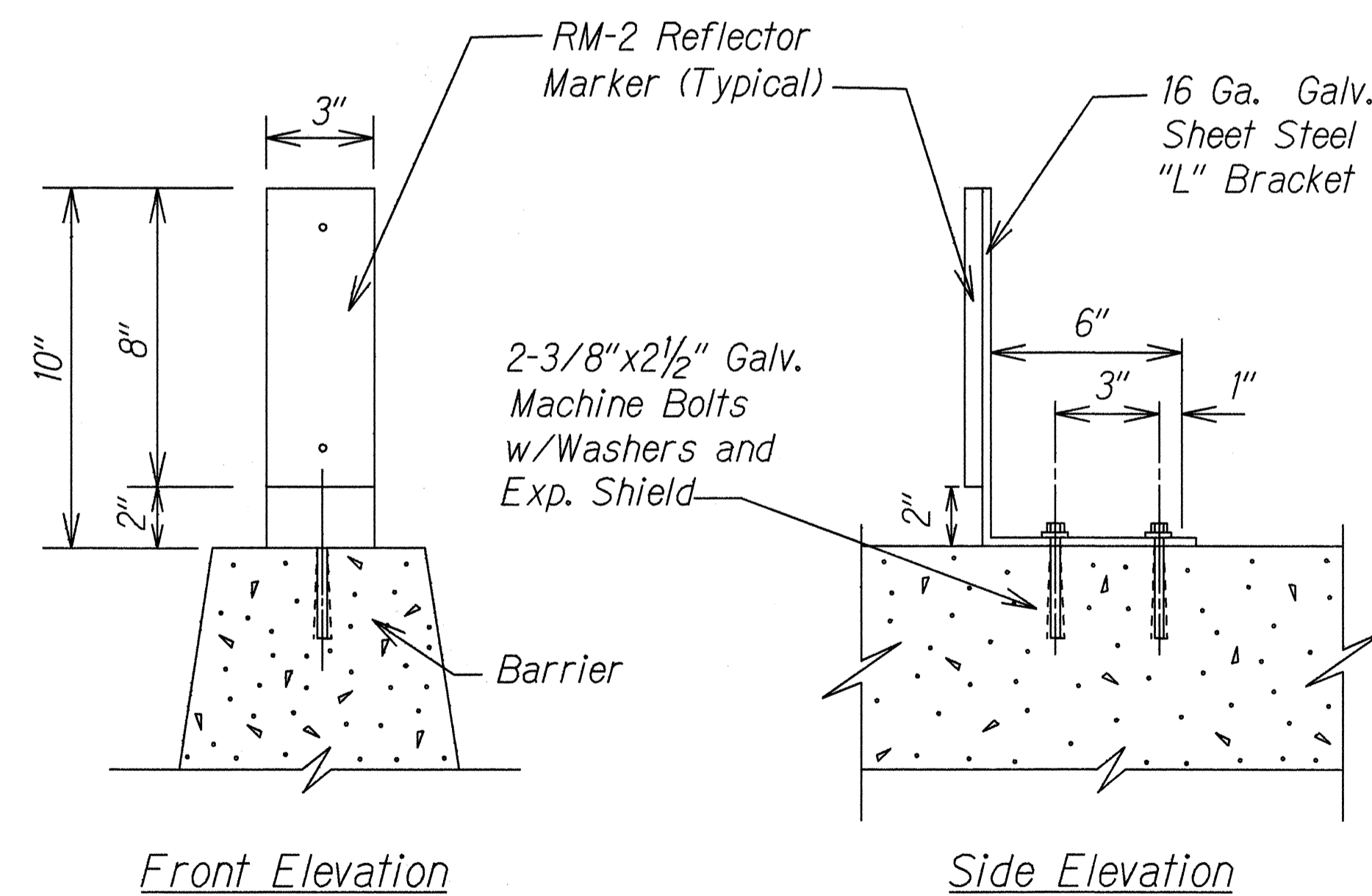
SURVEY PLOTTED BY: DATE: 7/17/98
 DRAWN BY: E. Bell
 NOTE BOOK: G. Kikuchi / Steven Y.
 QUANTITIES BY: rlr/rby
 CHECKED BY: N. 2/13/98

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING & SIGNING PLAN
 INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. 1M-H3-1(77)
 Scale: 1"=40' Date: Jan., 1999
 SHEET No. T29 OF 38 SHEETS

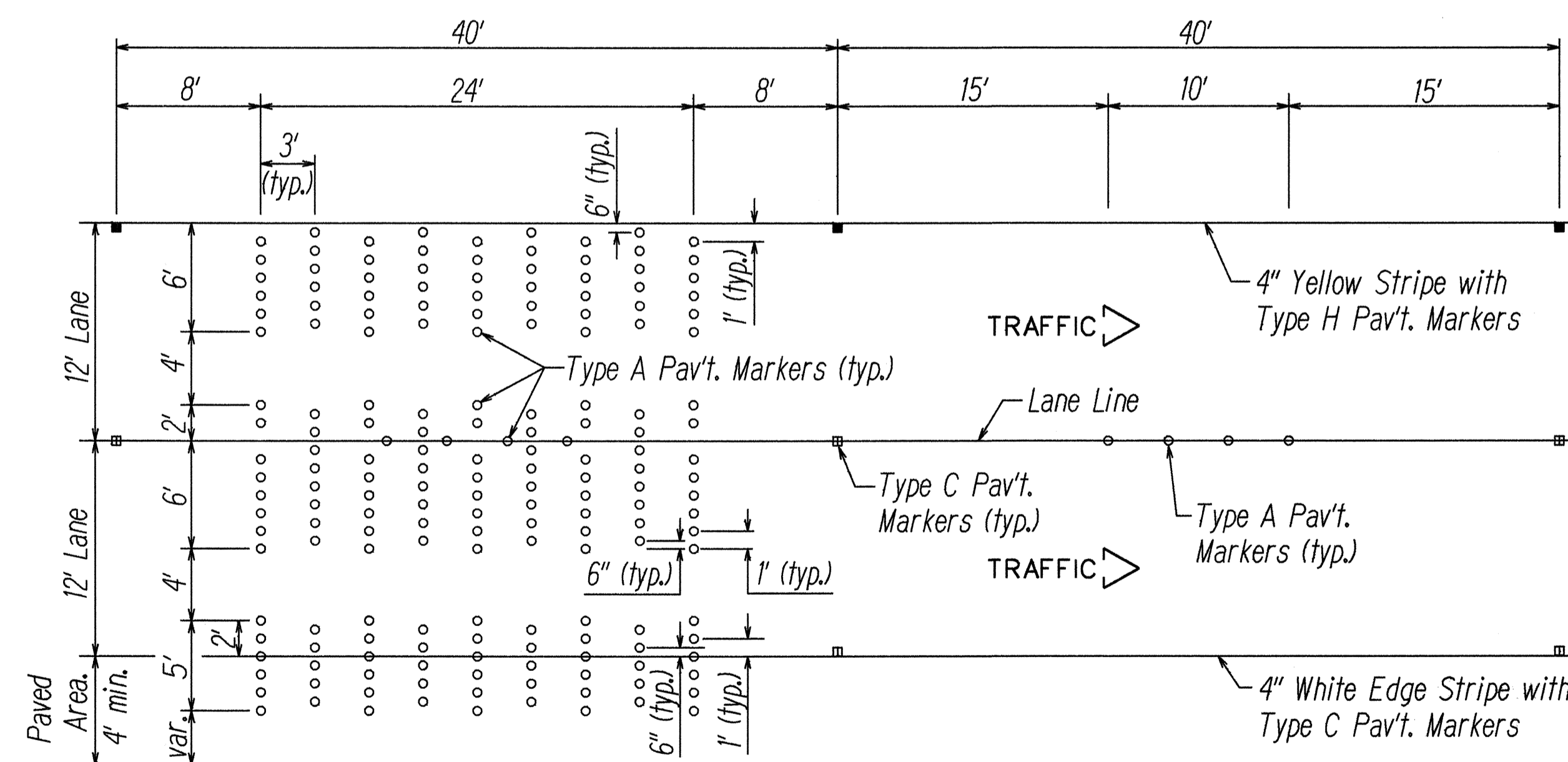
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H3-1(77)	1999	112	120



**DETAILS OF BRACKETS FOR REFLECTOR MARKERS
MOUNTED ON BRIDGE RAILINGS**
Not to Scale



**REFLECTOR MARKERS
MOUNTED ON CONCRETE BARRIER**
Not to Scale



NOTE:
1. Rumble Strip will be paid for under Type A Pav't. Markers.

TYPICAL RUMBLE STRIP - LAYOUT & DETAIL
Not to Scale

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

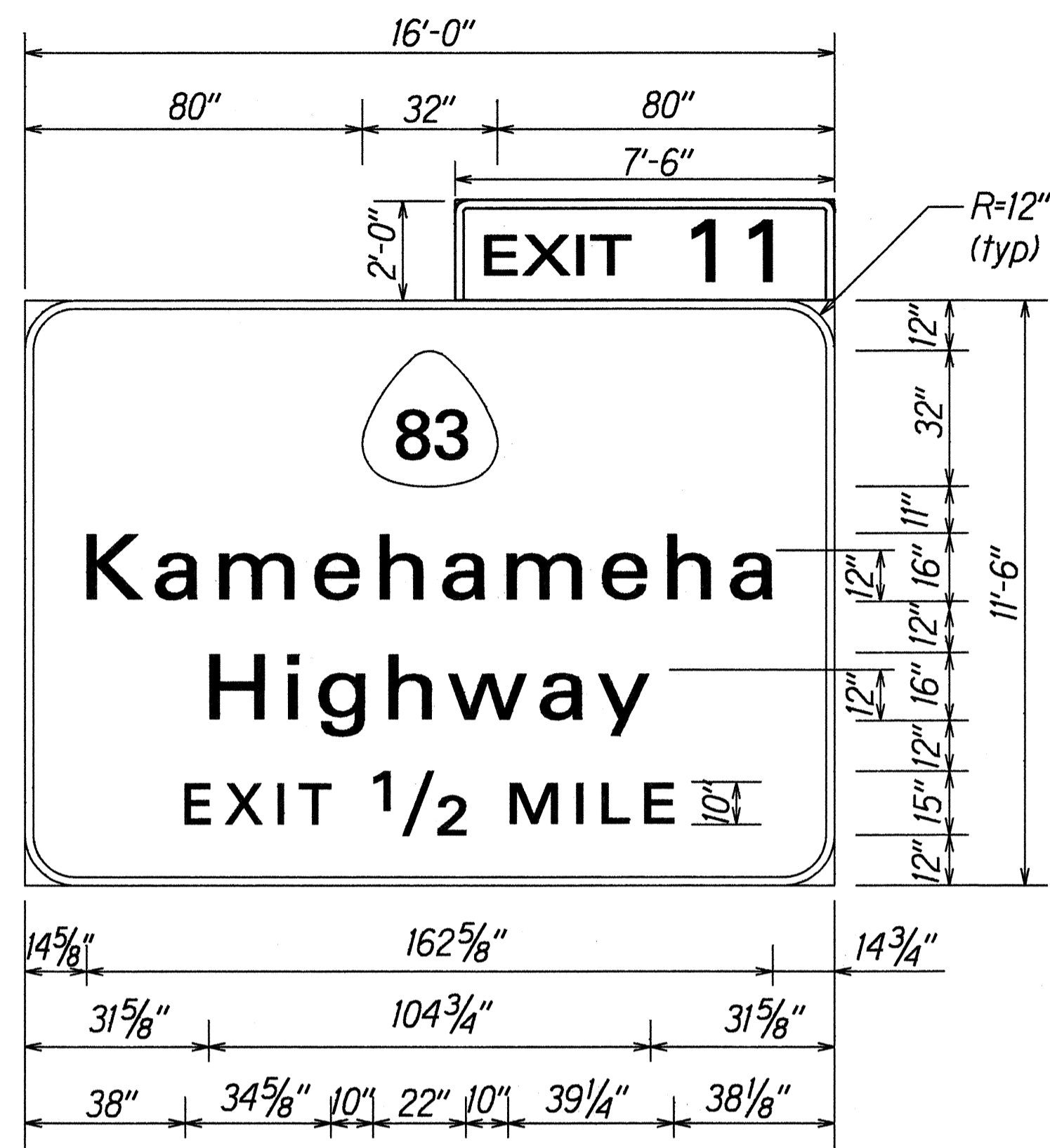
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS
TRAFFIC DETAILS
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. 1M-H3-1(77)
Scale: As Noted Date: Jan., 1999
SHEET No. T30 OF 38 SHEETS

EXPRESSWAY (E) AND DESTINATION (D) SIGN NOTES

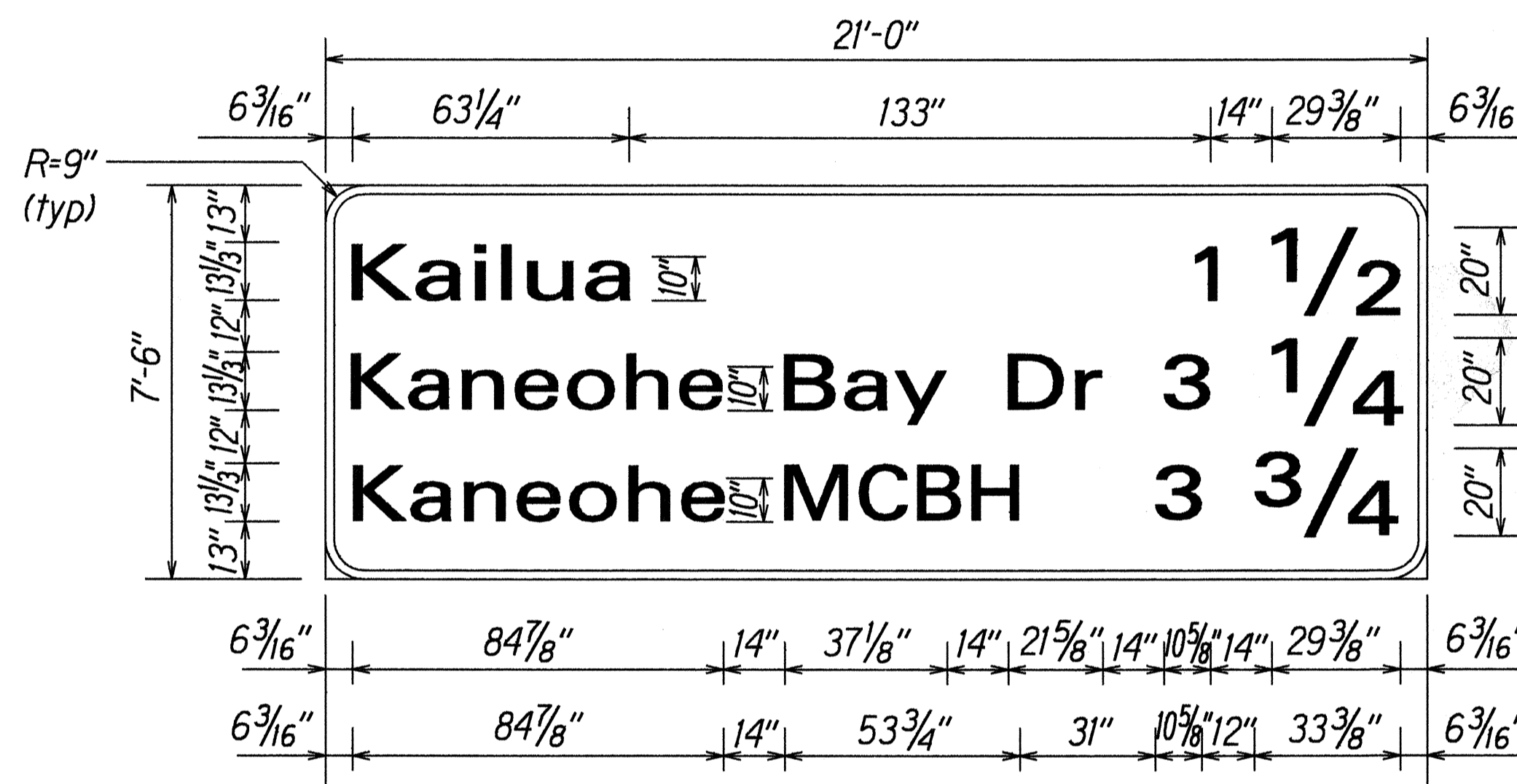
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	113	120

- Background for all illuminated ("E" designation), non-illuminated ("D" designation) sign and exit number panels shall be reflectorized with Type III or IV retroreflective sheeting (High Intensity or High Performance Performance Grade).
- The message, arrows and borders of expressway signs ("E" and "D" designations) and exit number panels shall be reflectorized with porcelain enameled aluminum cut-outs with acrylic plastic reflex reflectors or Type III or IV retroreflective sheeting (High Intensity or High Performance Grade).
- The Contractor shall verify the location and dimensions of existing Sign Panels and supports.
- New sign panels shall be laminated aluminum or extruded aluminum.

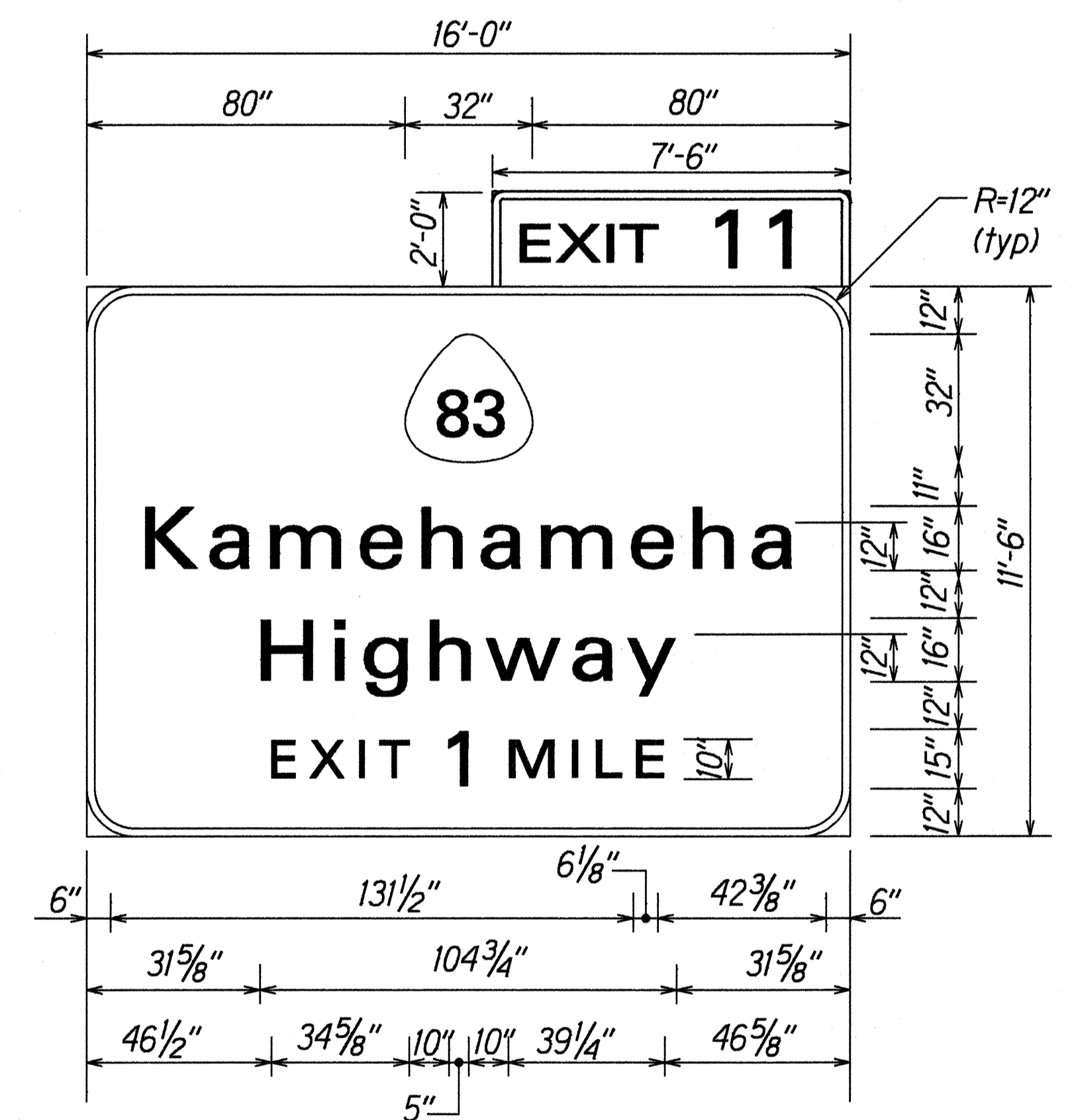
- Letter Size:
 - When letters are all uppercase, use series "E"
 - When initial uppercase letter is used in conjunction with lower case letters, use series "E"(M) for uppercase
- Contractor shall submit all sign splicing details to the Engineer for approval. All backing for signs four (4) feet by six (6) feet or less shall be of one sheet.
- Destination and Expressway Sign Posts shall be as noted on the plans.
- 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.



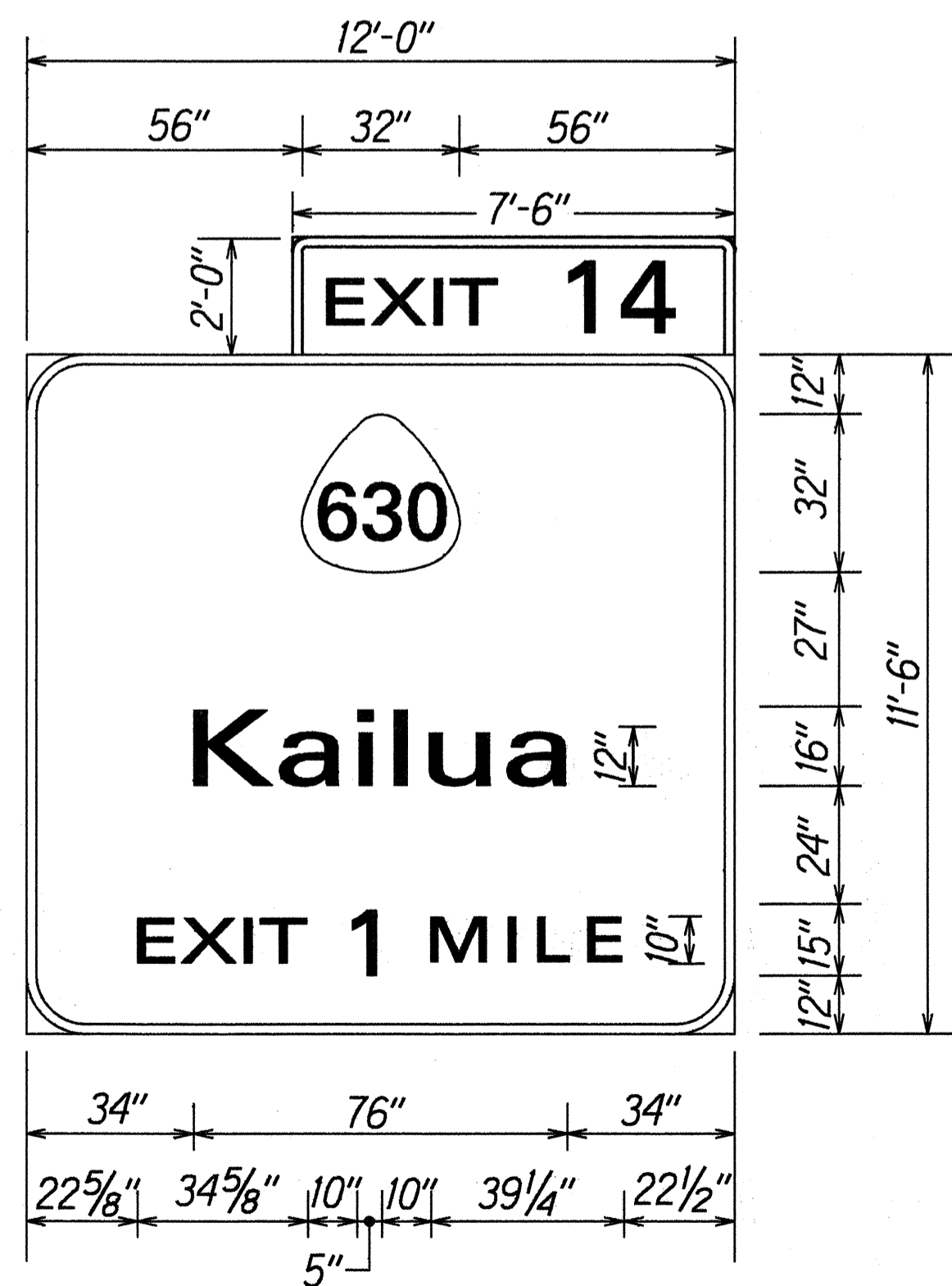
D-1
H3 @ Sta. 538+00± Lt.



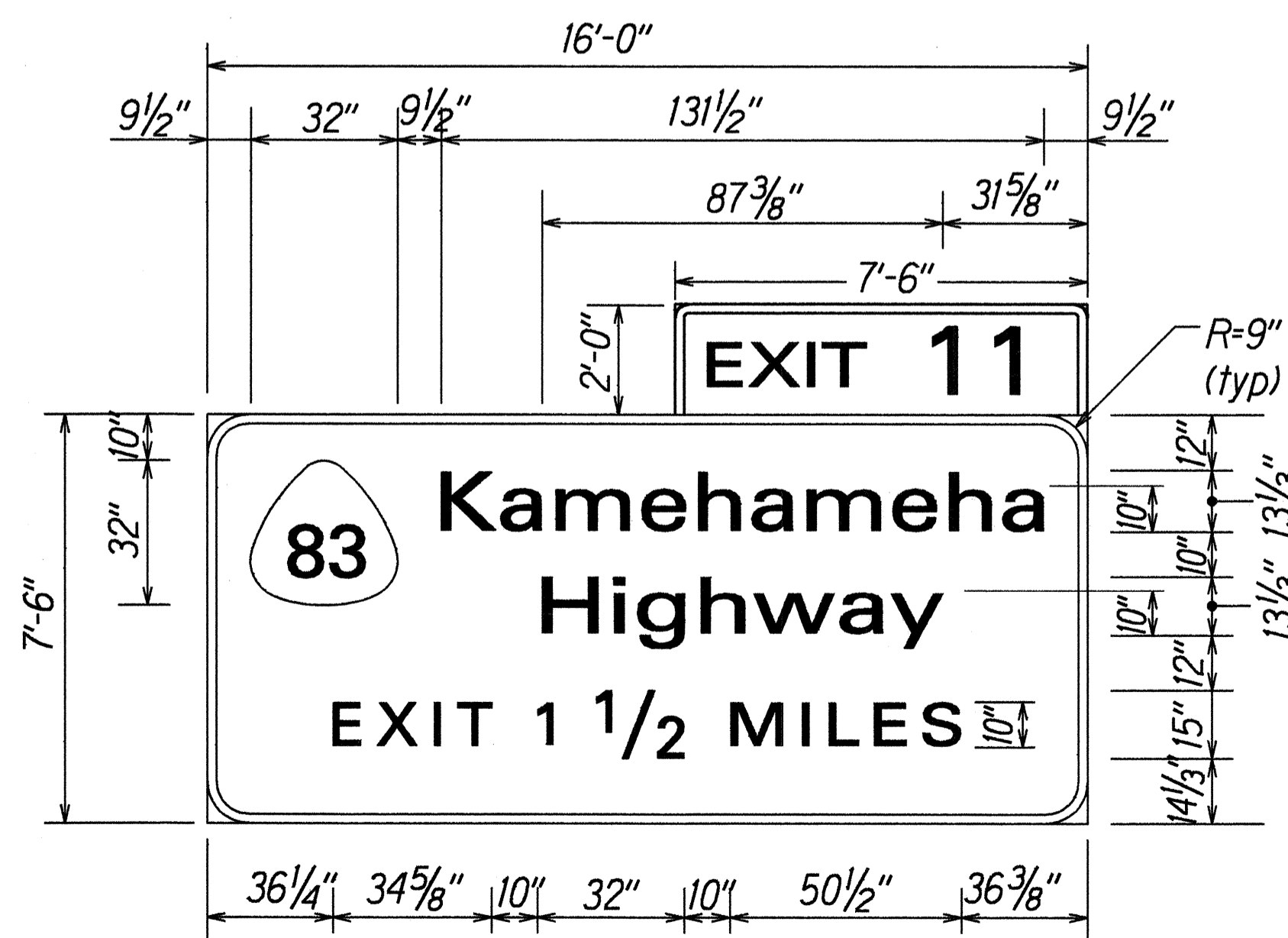
D-2
H3 @ Sta. 541+75± Rt.



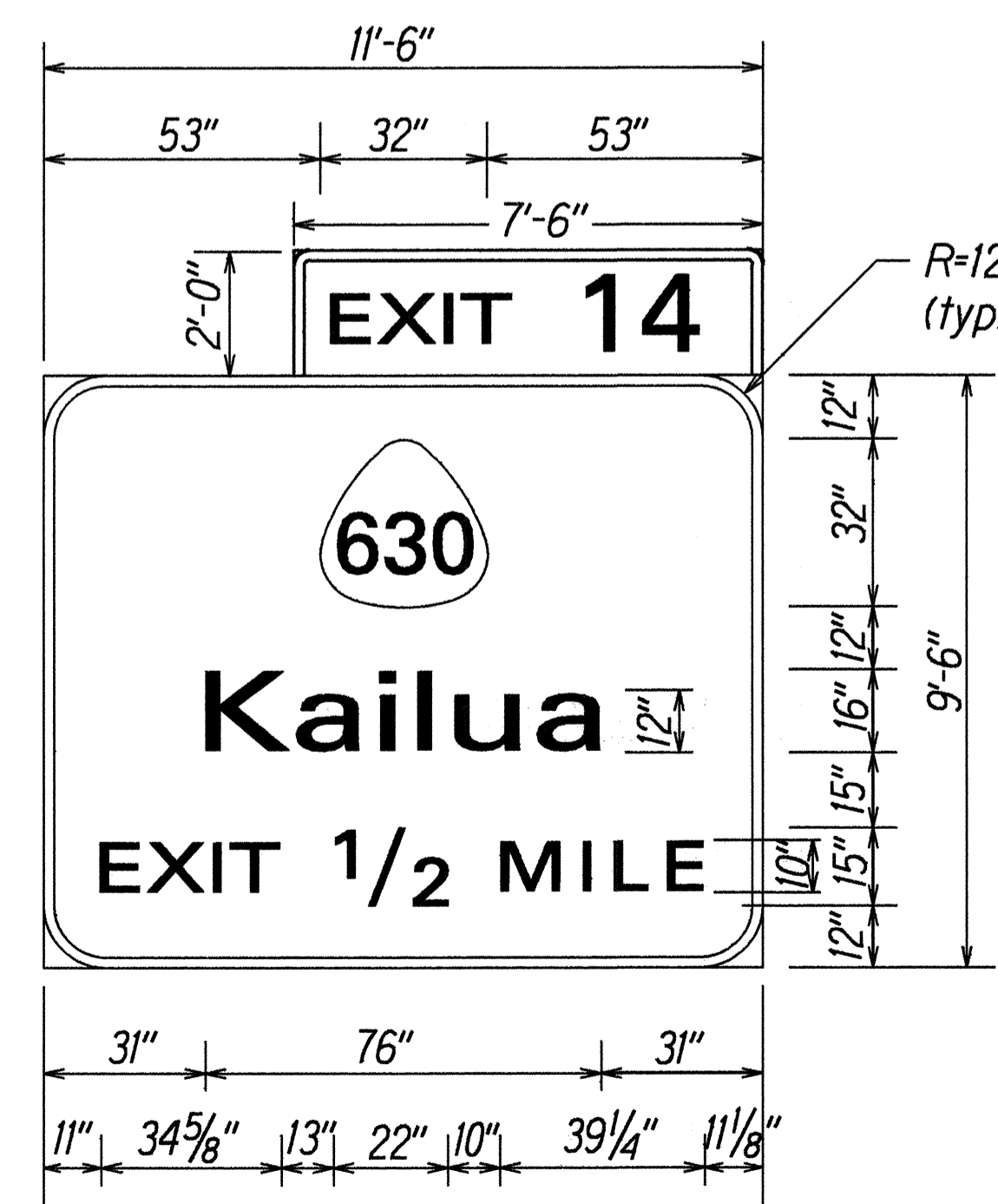
D-3
H3 @ Sta. 565+00± Lt.



D-4
H3 @ Sta. 573+00± Rt.



D-5
H3 @ Sta. 590+50± Lt.



D-6
H3 @ Sta. 599+40± Rt.

ORIGINAL PLAN	DATE
SURVEY PLANNED BY	8/22/97
DRAWN BY	
NOTE BOOK	
DESIGNED BY	G. KAKIHI / SHERON Y.
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

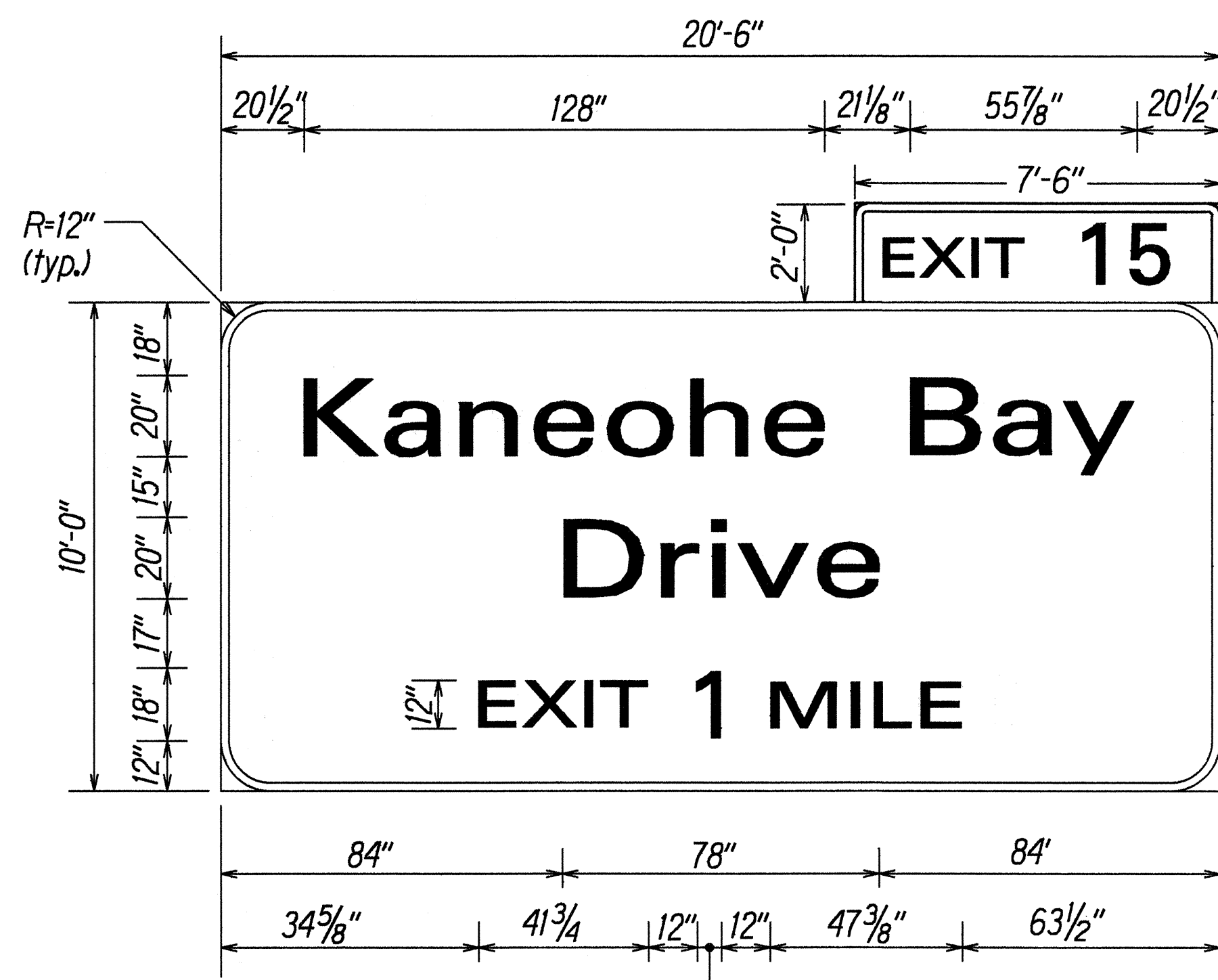
SIGN DETAILS

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)

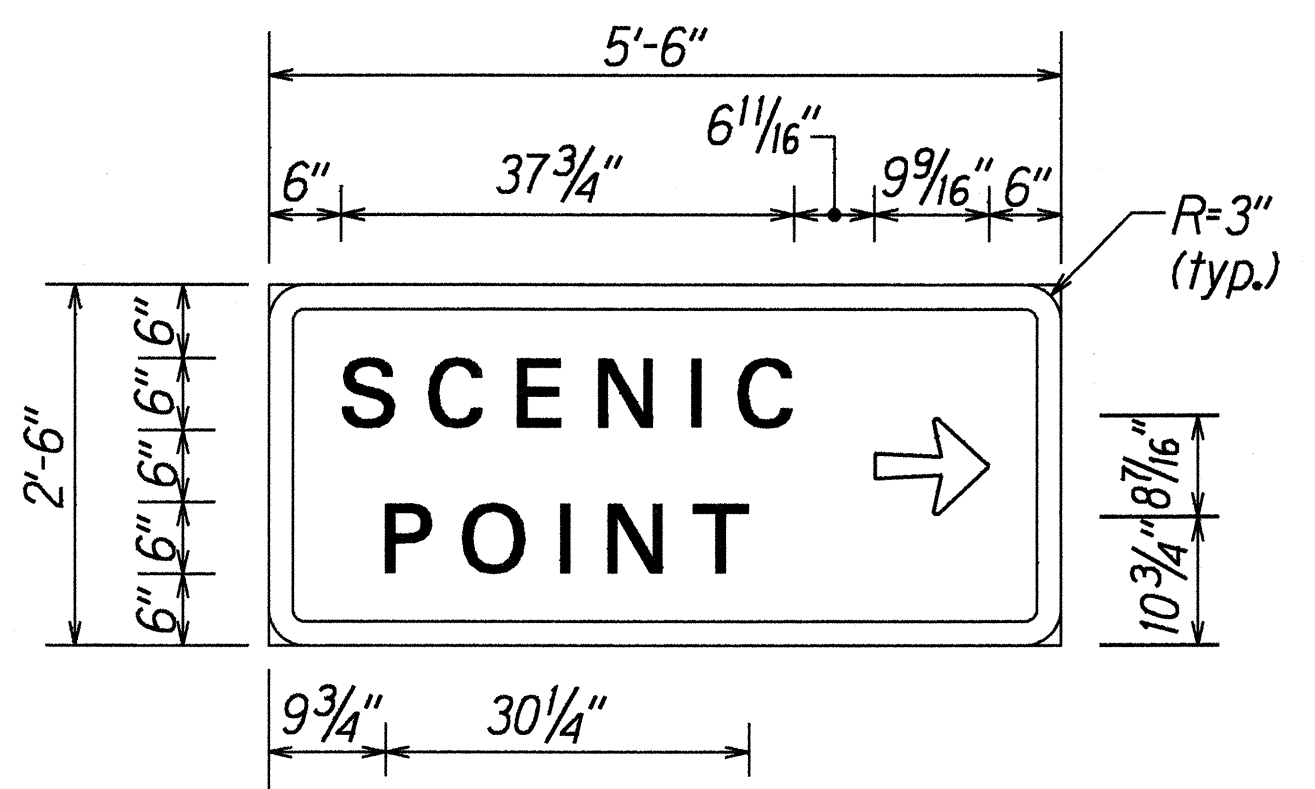
Scale: As Noted Date: Jan., 1999

SHEET No. T31 OF 38 SHEETS

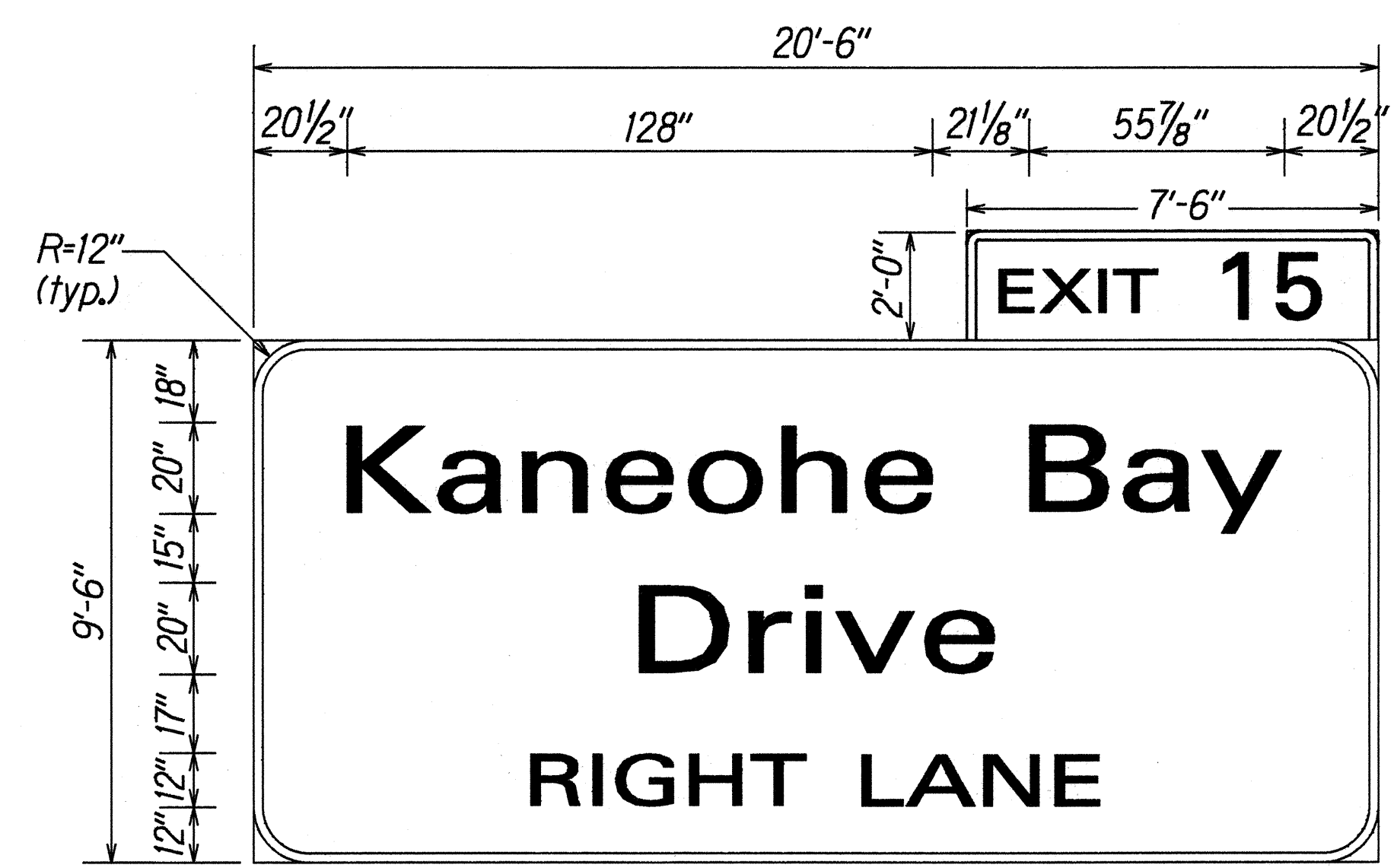
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H3-1(77)	1999	114	120



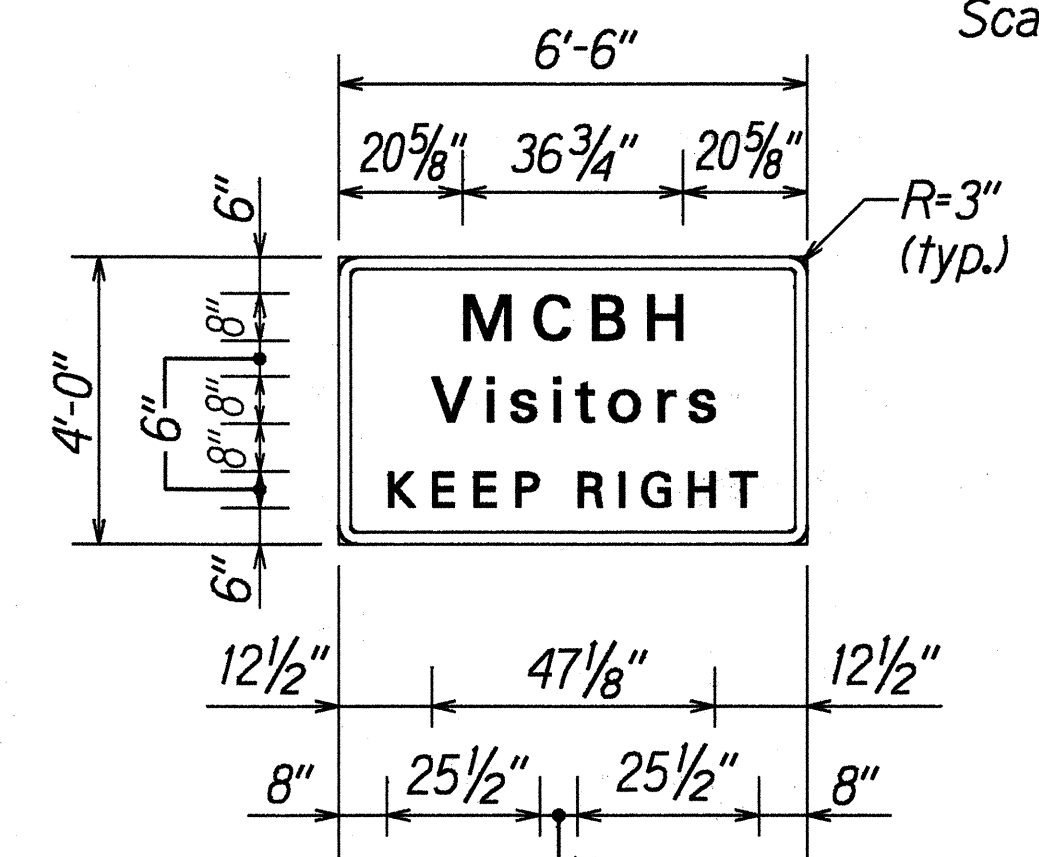
D-8
H3 Sta. 656+00± Rt.
Scale: 3/8" = 1'-0"



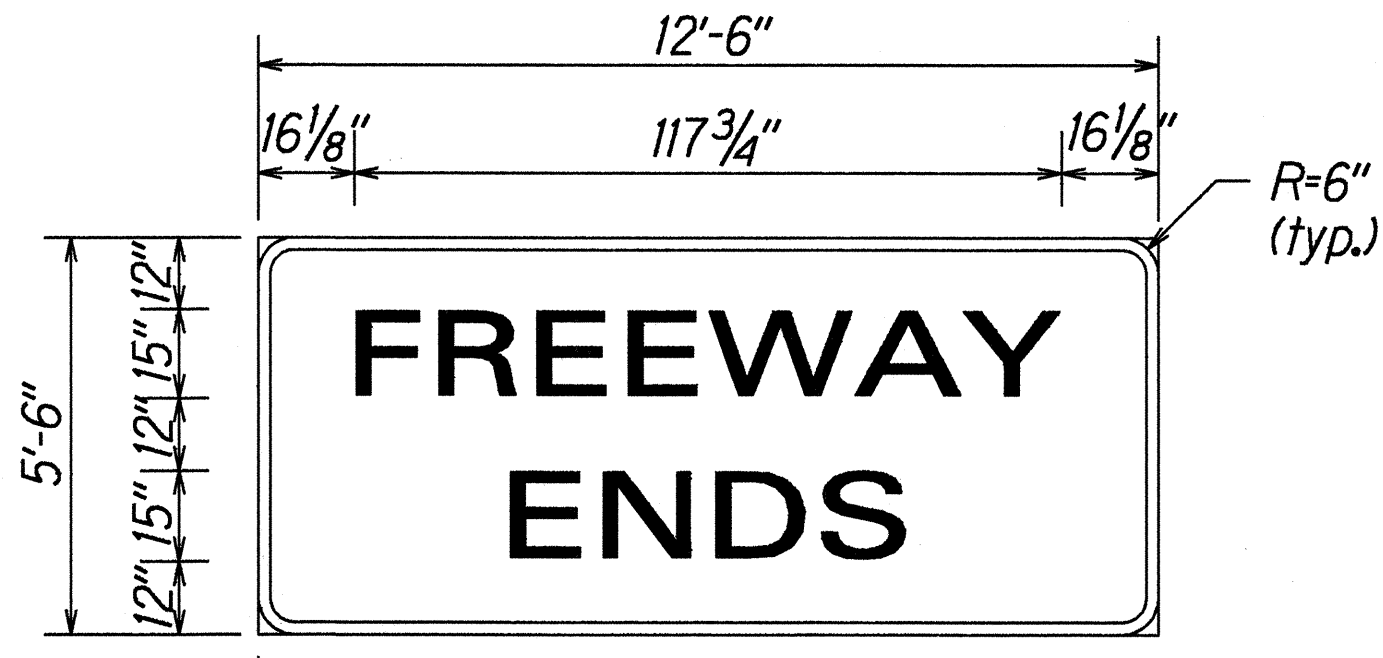
D-9 & D-10
H3 Sta. 674+00± Rt. &
H3 Sta. 686+00± Lt.
Scale: 3/4" = 1'-0"



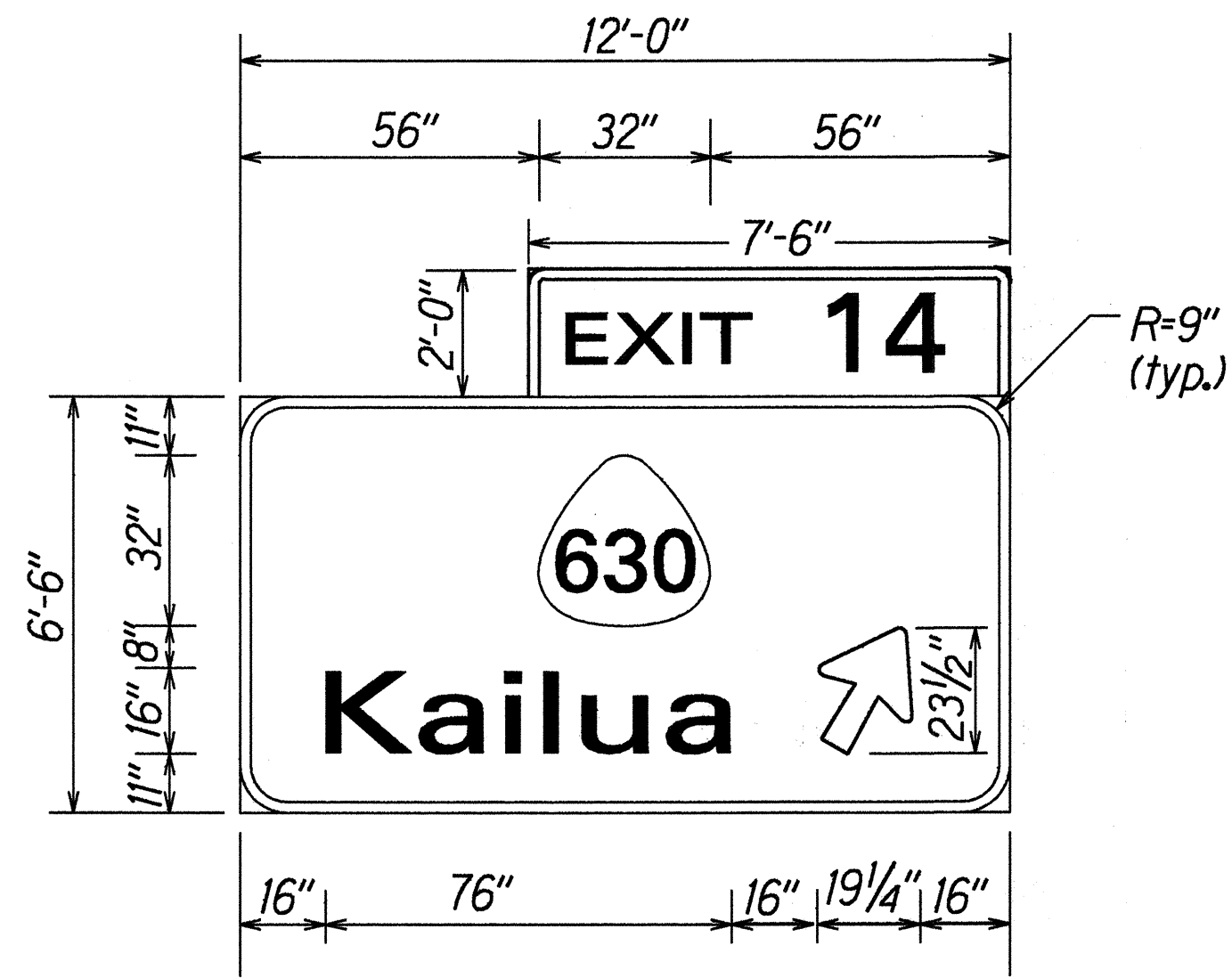
D-11 & D-14
H3 Sta. 699+00± Rt. &
H3 Sta. 721+90± Lt.
Scale: 3/8" = 1'-0"



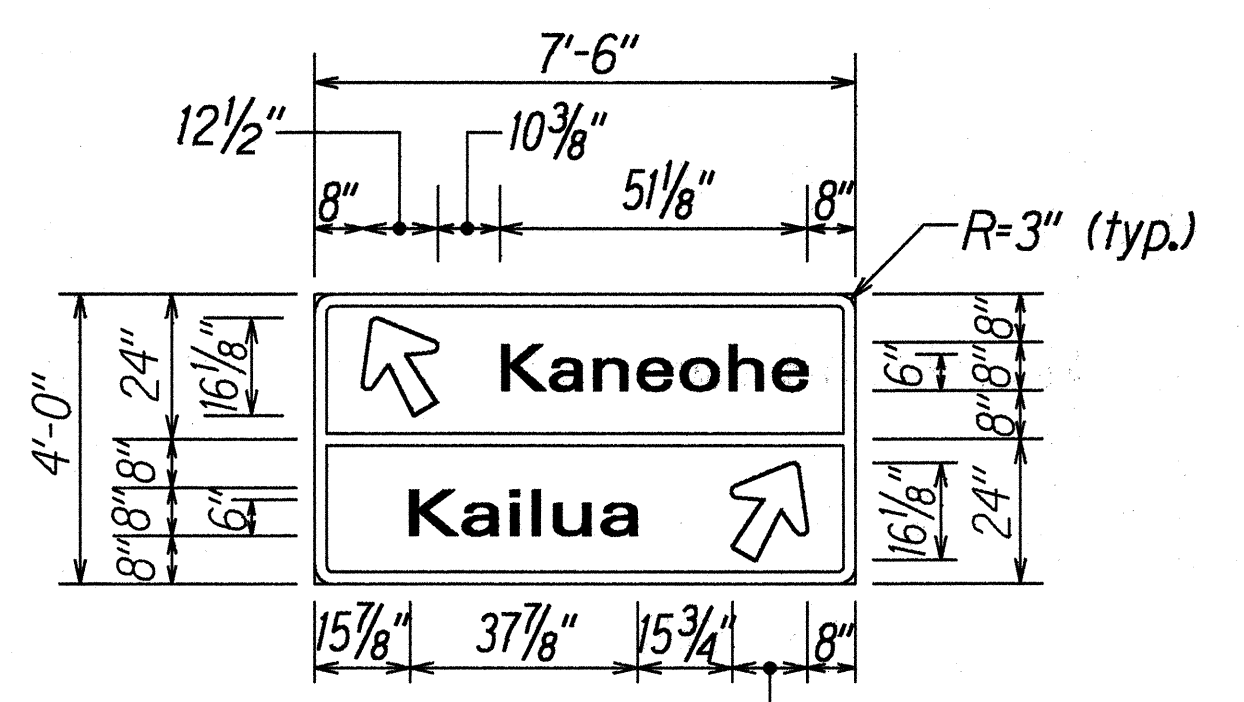
D-15
H3 Sta. 738+20± Rt.
Scale: 3/8" = 1'-0"



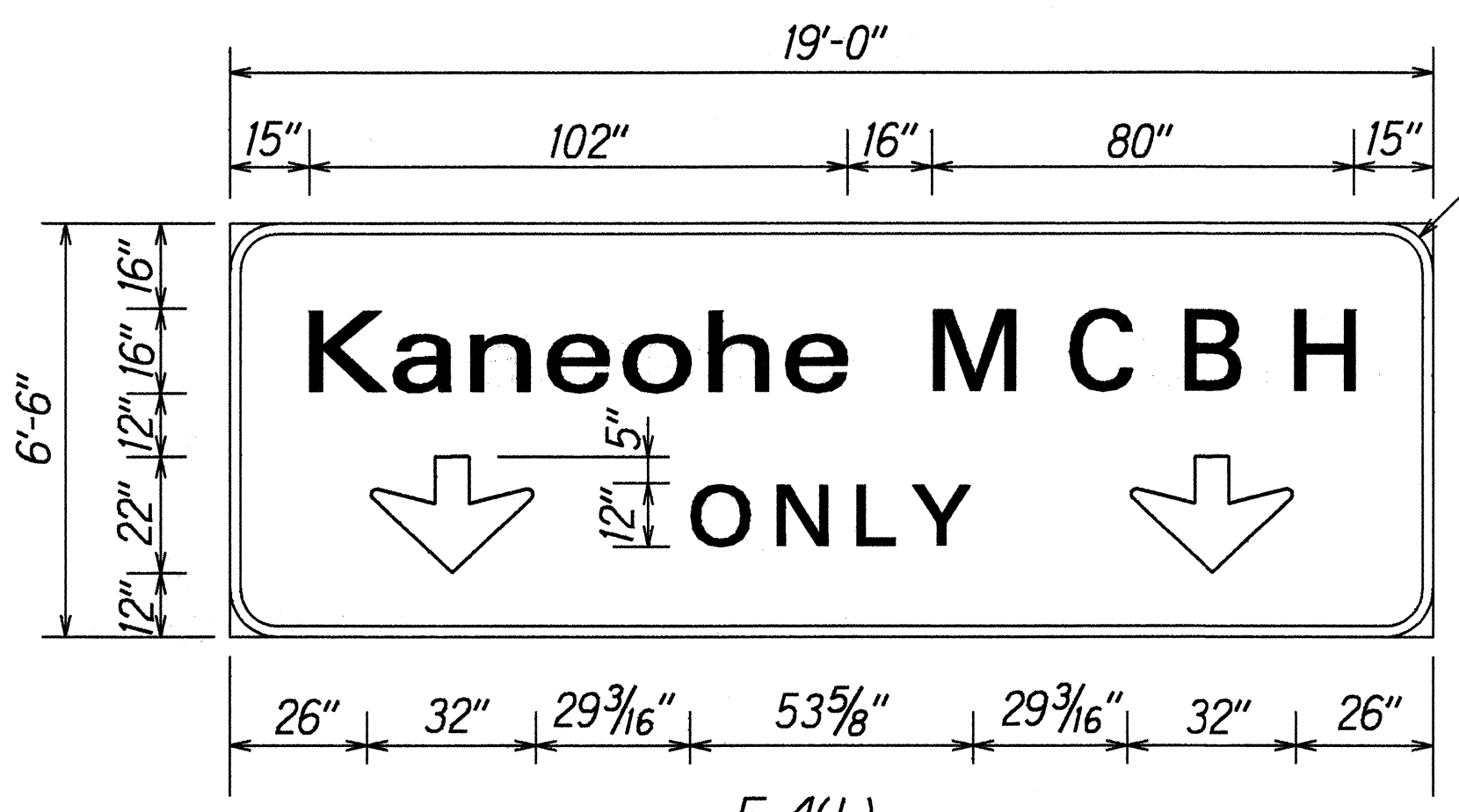
D-16
H3 Sta. 745+00± Rt.
Scale: 3/8" = 1'-0"



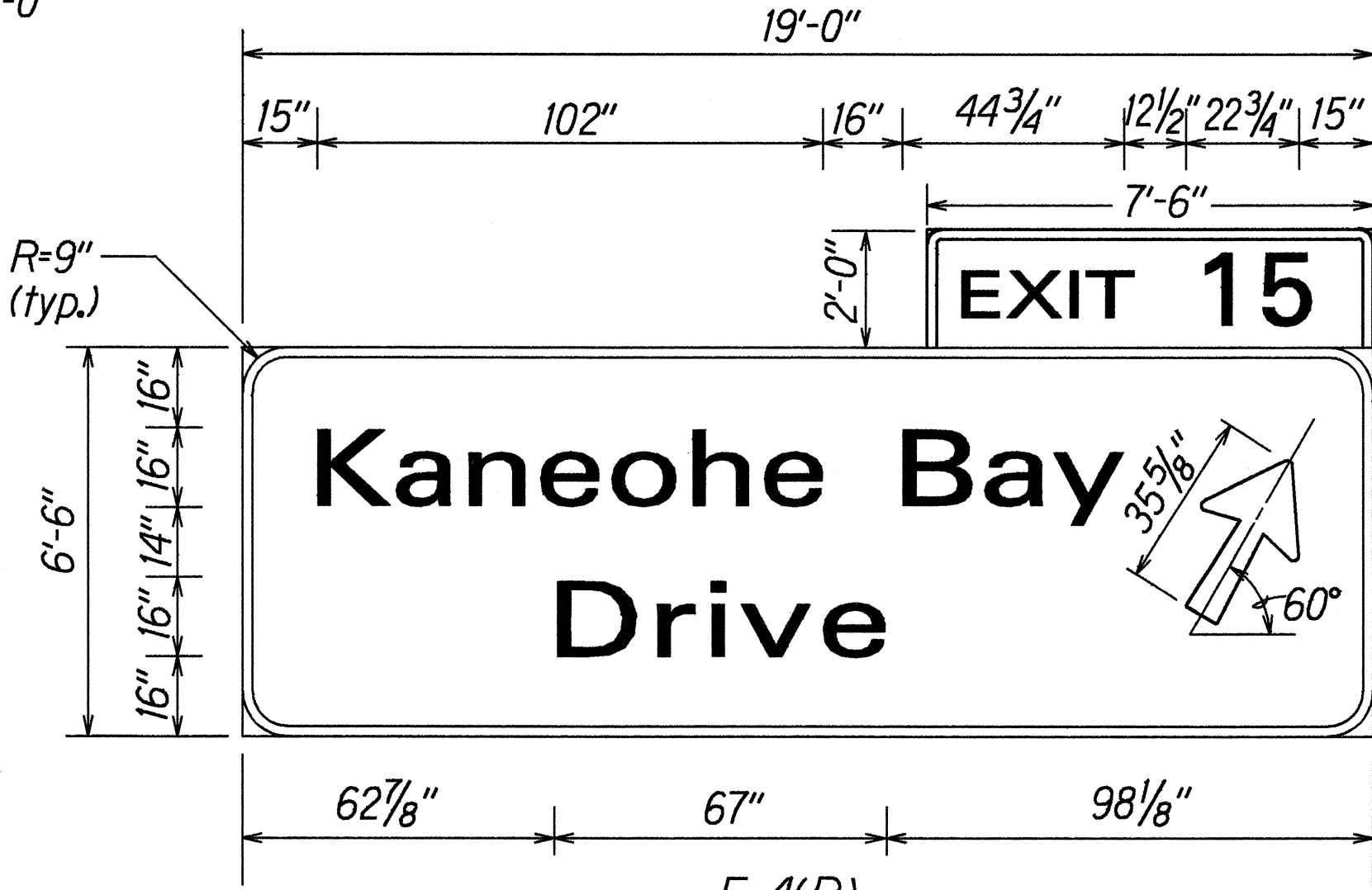
E-1
H3 Sta. 623+50± Rt.
Scale: 3/8" = 1'-0"



E-2 & E-3
Ramp "K-1" Sta. 6+00± Rt.
Ramp "M-1" Sta. 12+70± Rt.
Scale: 3/8" = 1'-0"



E-4(L)
H3 Sta. 709+00± Rt.
Scale: 3/8" = 1'-0"



E-4(R)
H3 Sta. 709+00± Rt.
Scale: 3/8" = 1'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
QUANTITIES BY	
DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

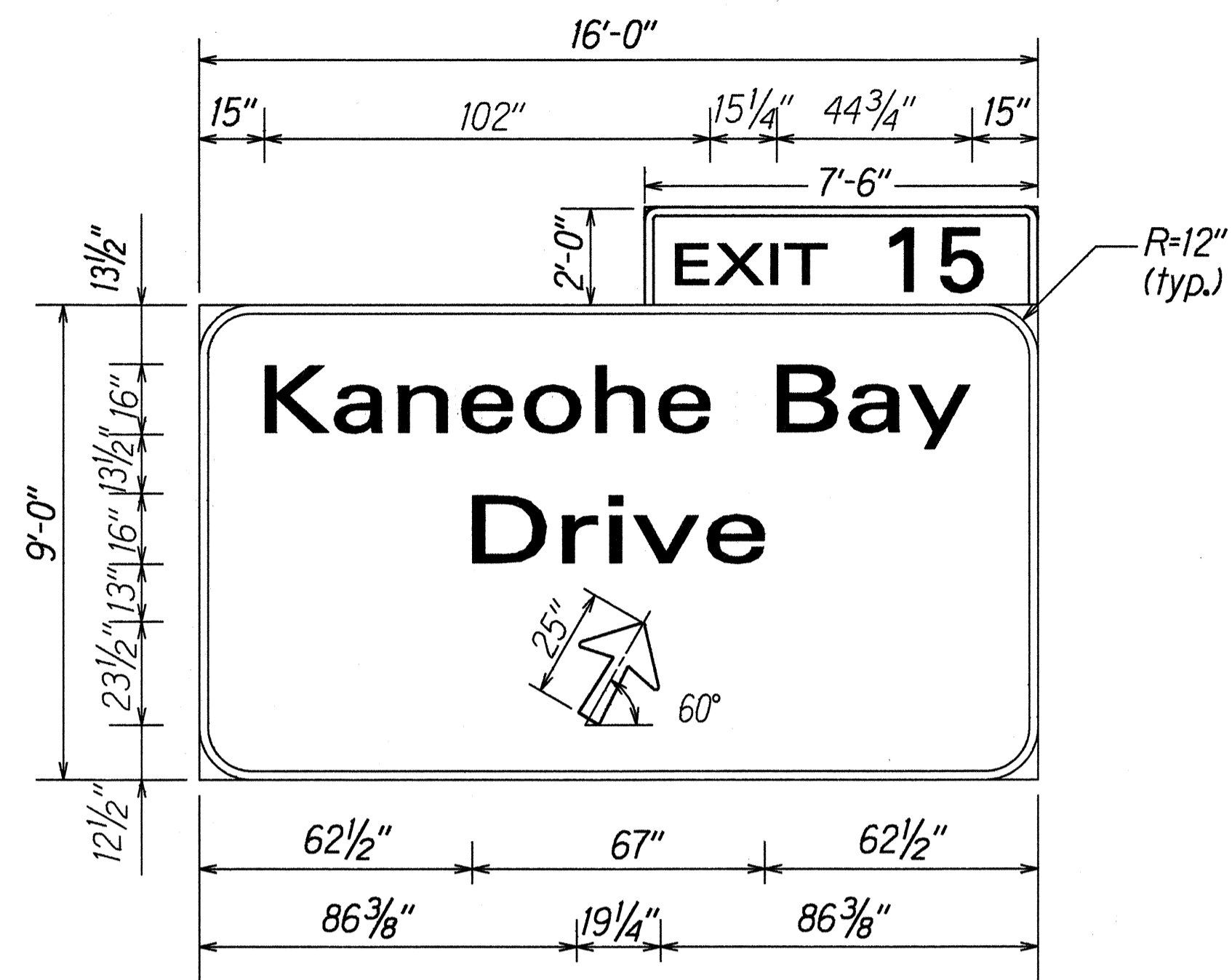
SIGN DETAILS

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. 1M-H3-1(77)

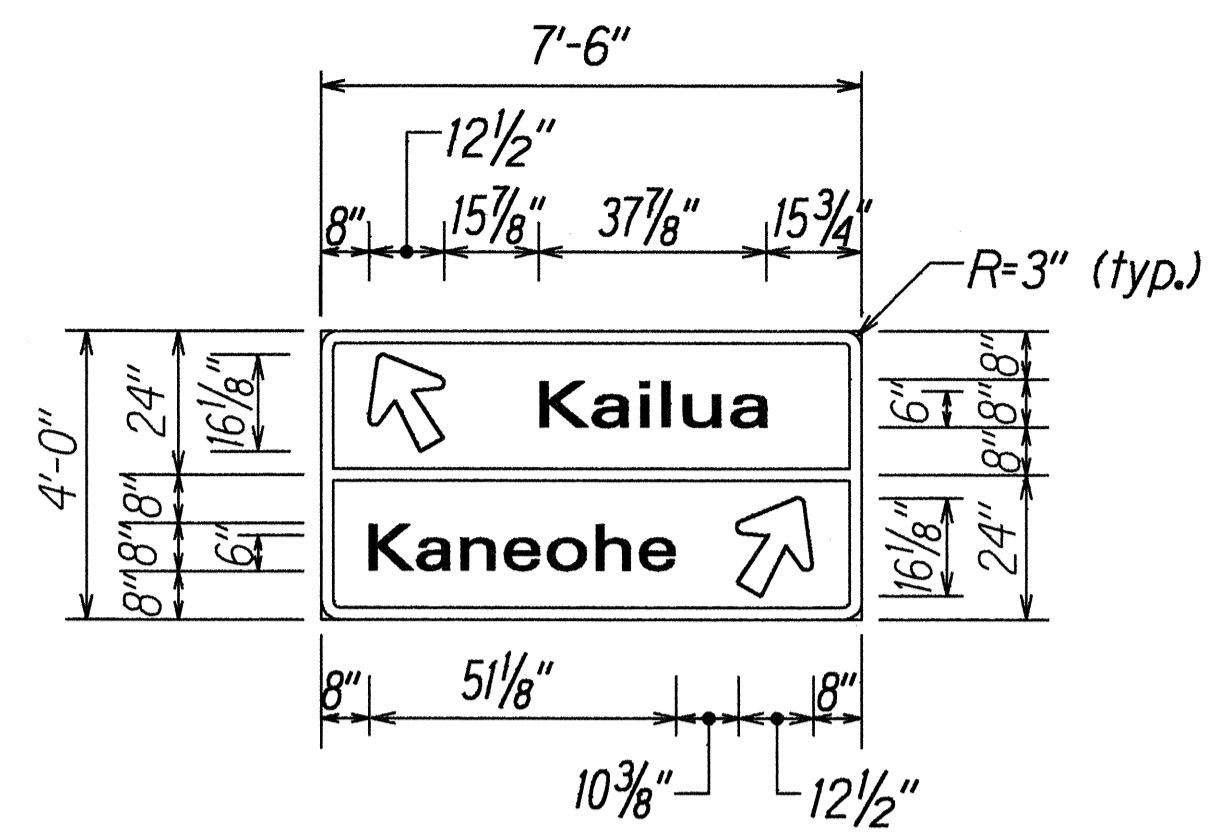
Scale: As Noted Date: Jan., 1999

SHEET No. T32 OF 38 SHEETS

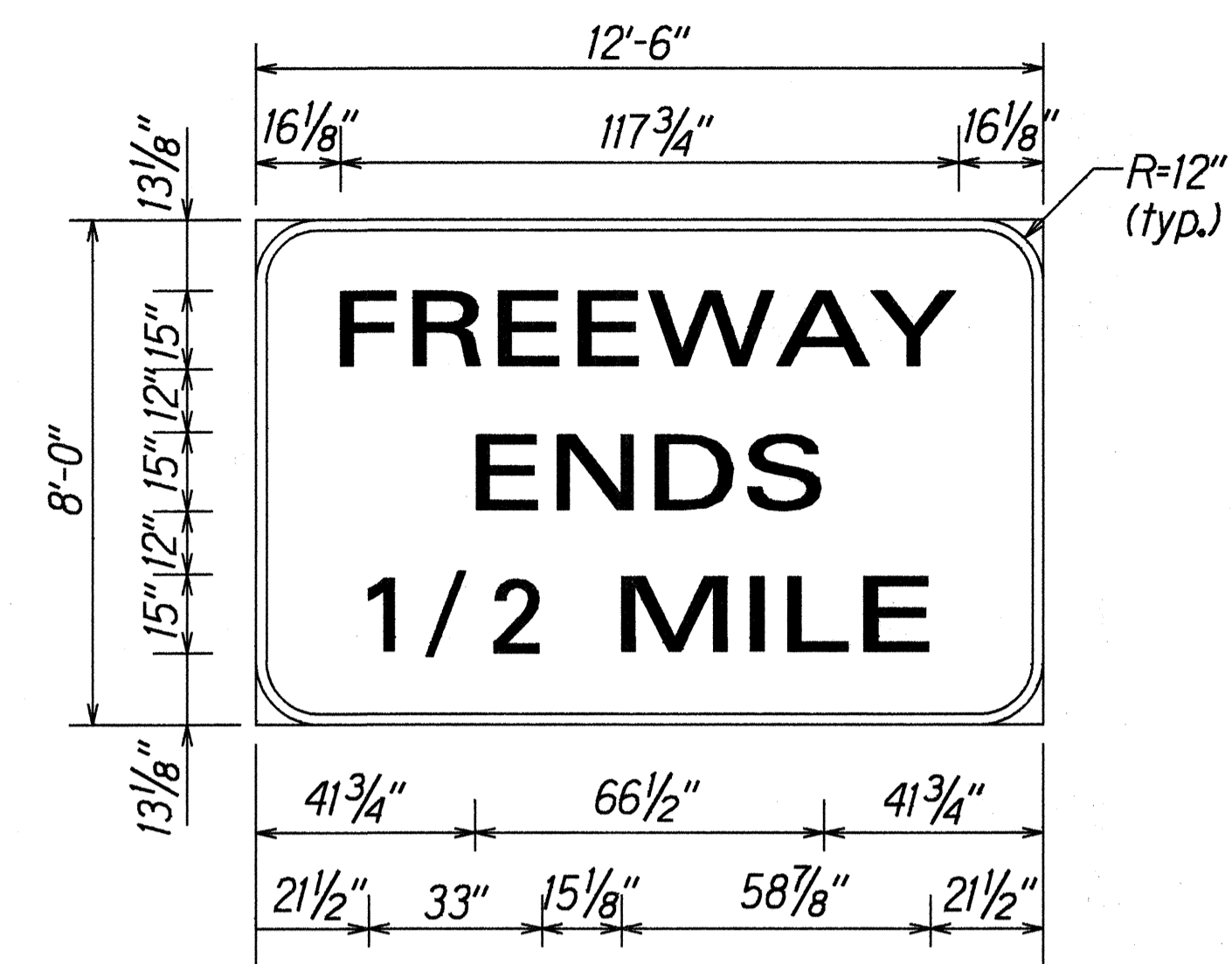
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H3-1(77)	1999	115	120



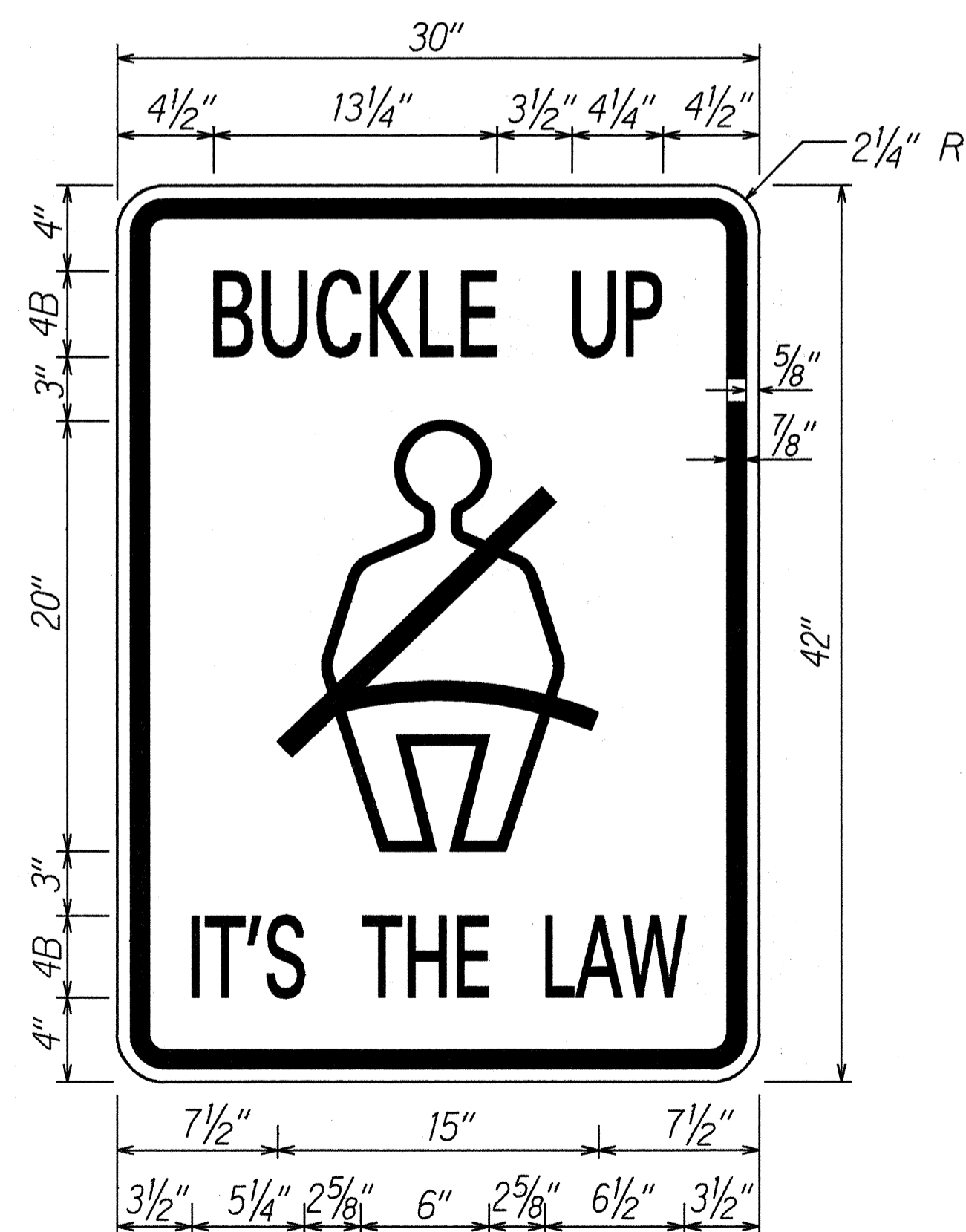
E-5
H3 @ Sta. 714+30± Lt.
Scale: 3/8" = 1'-0"



E-6
Ramp "M-3" @ Sta. 12+40± Rt.
Scale: 3/8" = 1'-0"



E-7
H3 @ Sta. 722+00 Rt.
Scale: 3/8" = 1'-0"



R16-1
Not to Scale

SURVEY PLOTTED BY	DATE
DRAWN BY B. Hill	12/13/91
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
FILED BY	
NO. 21131513	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

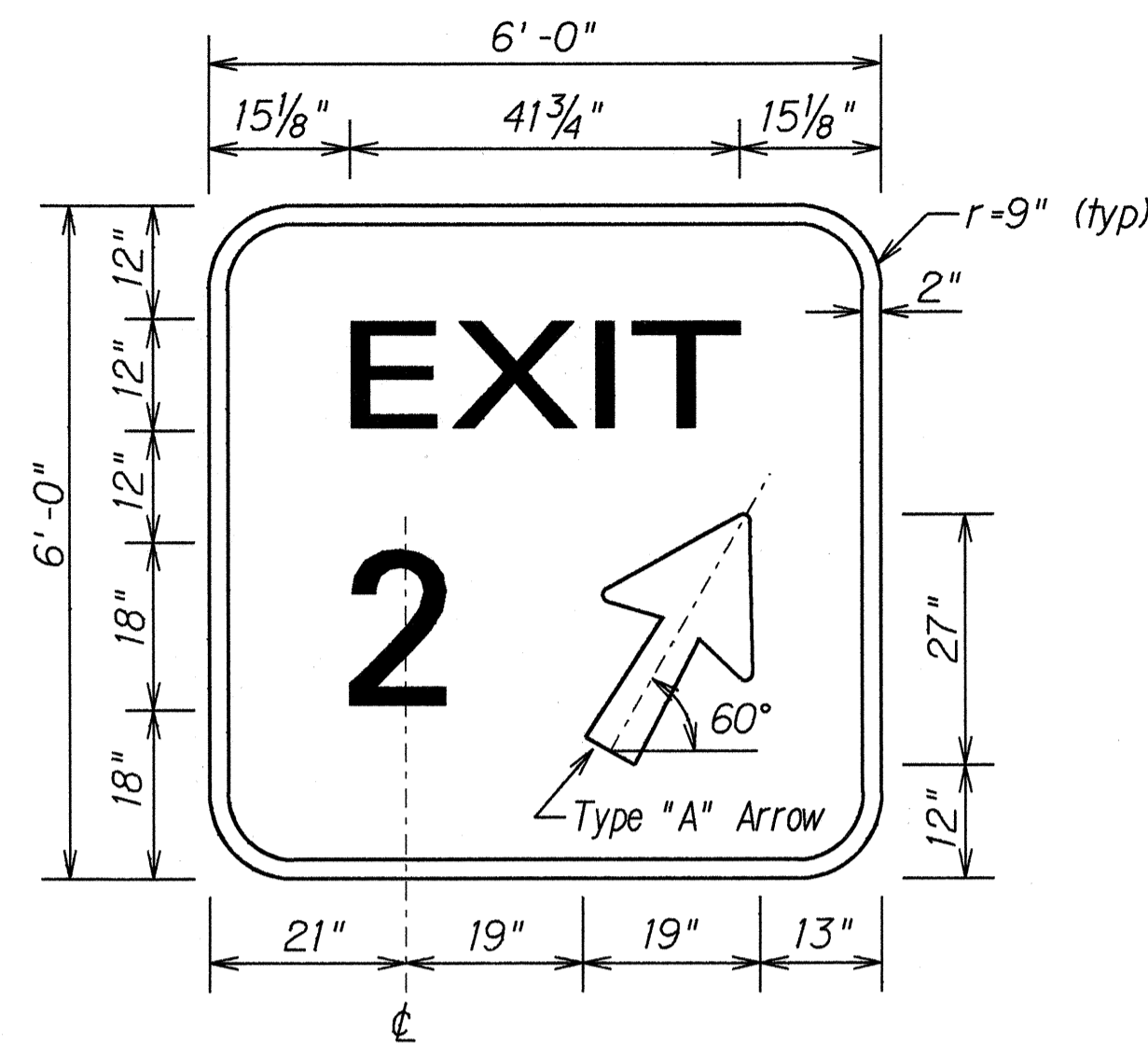
SIGN DETAILS

*INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. 1M-H3-1(77)*

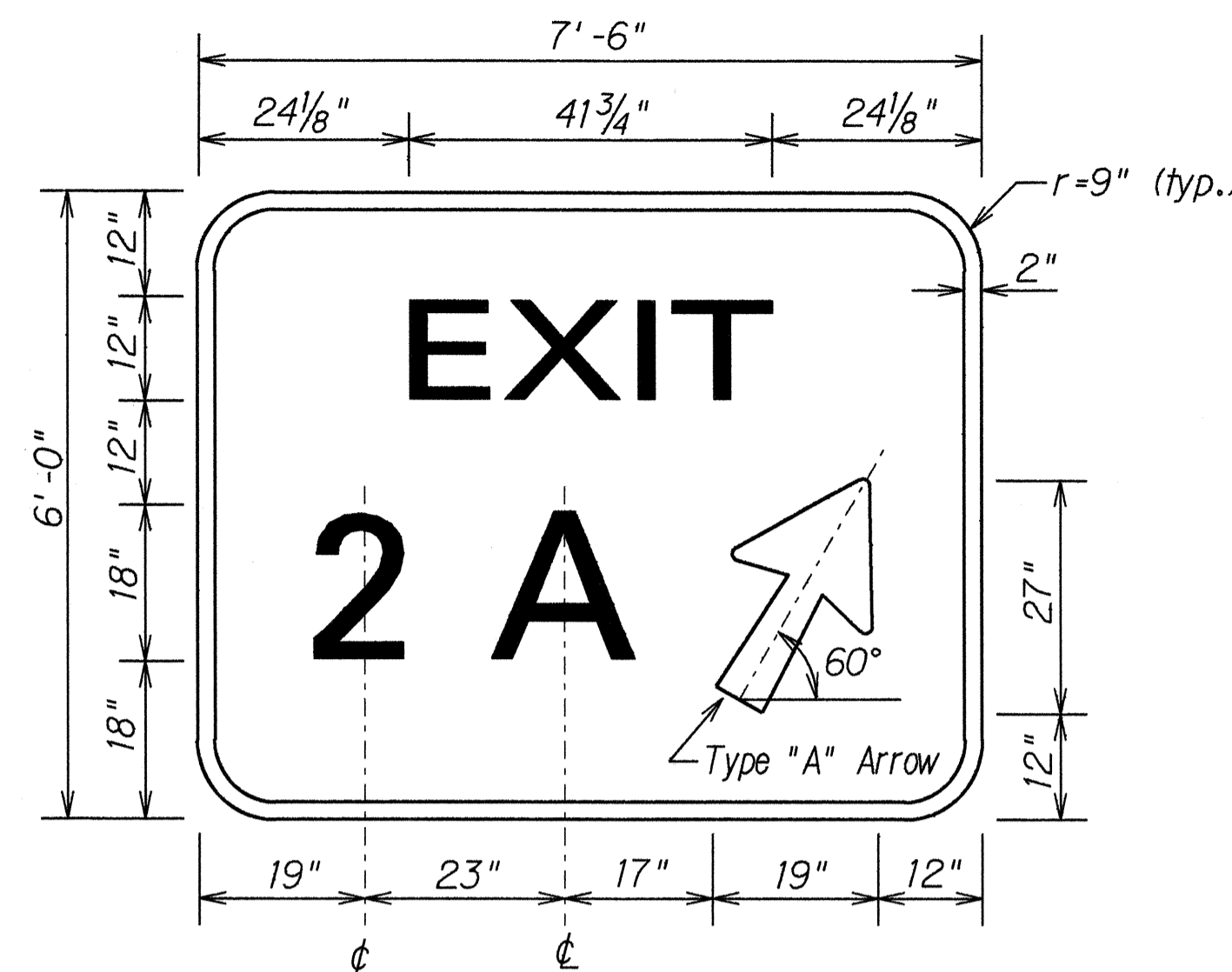
Scale: As Noted Date: Jan., 1999

SHEET No. T33 OF 38 SHEETS

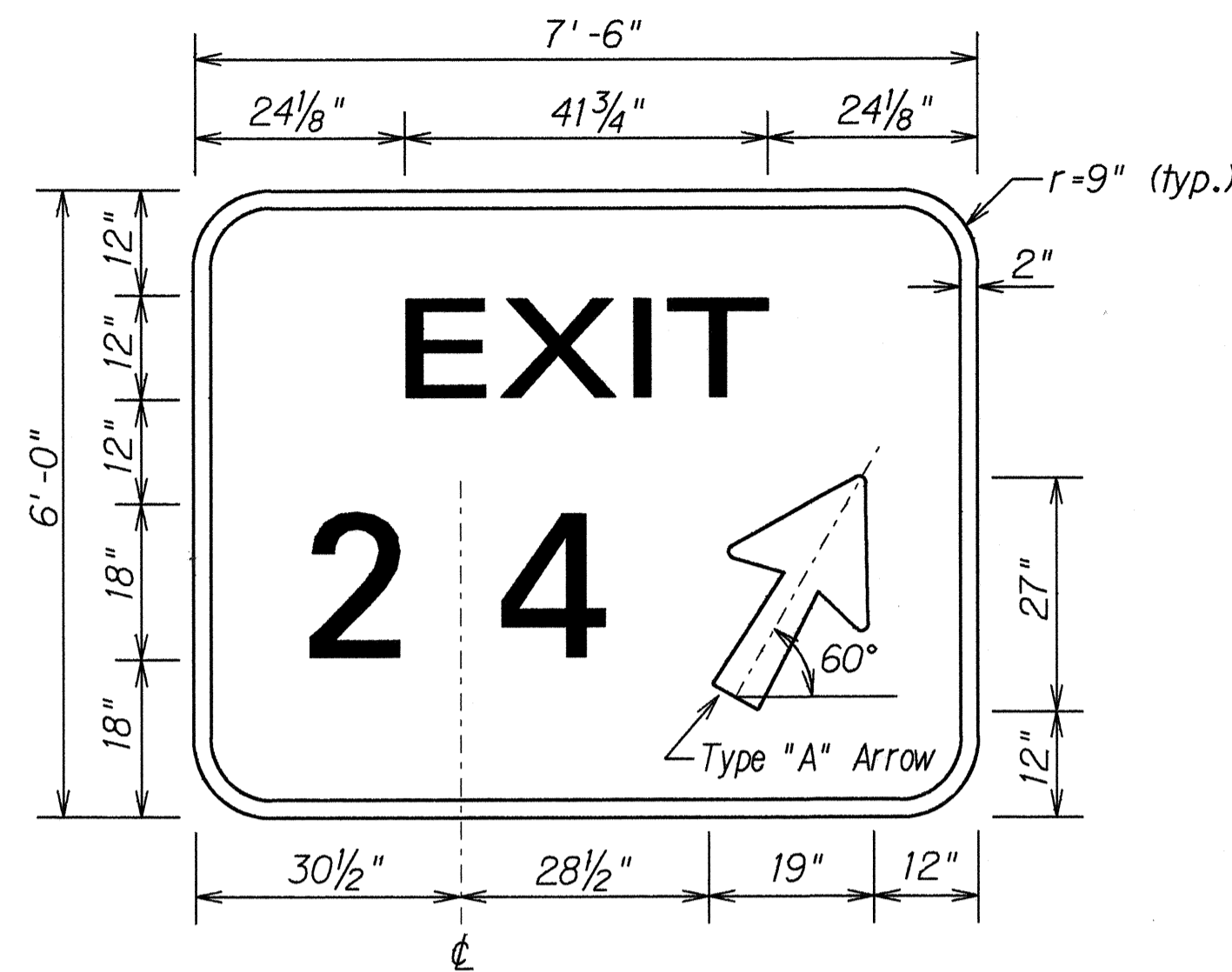
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(76)	1999	116	120



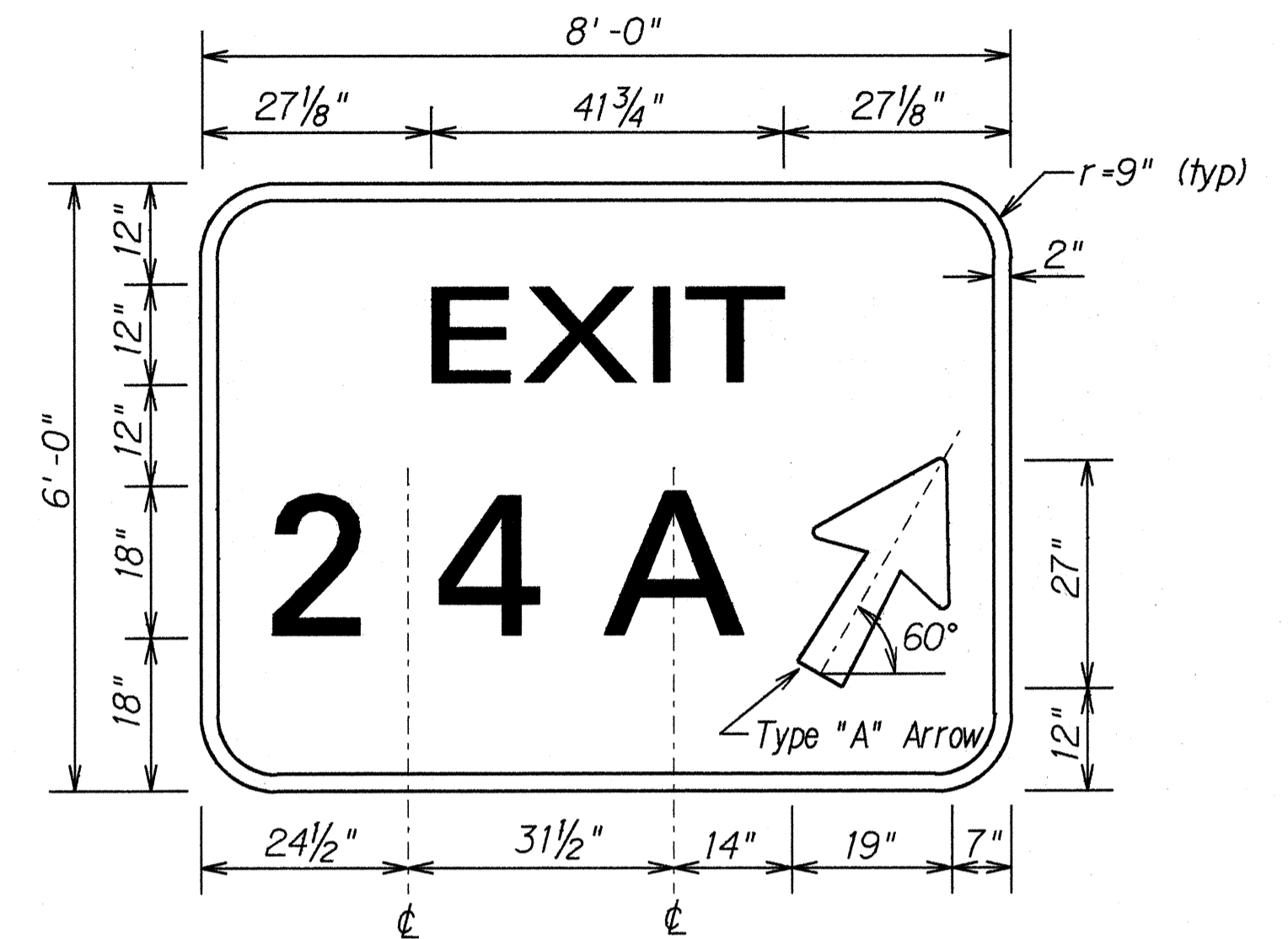
SINGLE NUMBER



SINGLE NUMBER
SINGLE LETTER



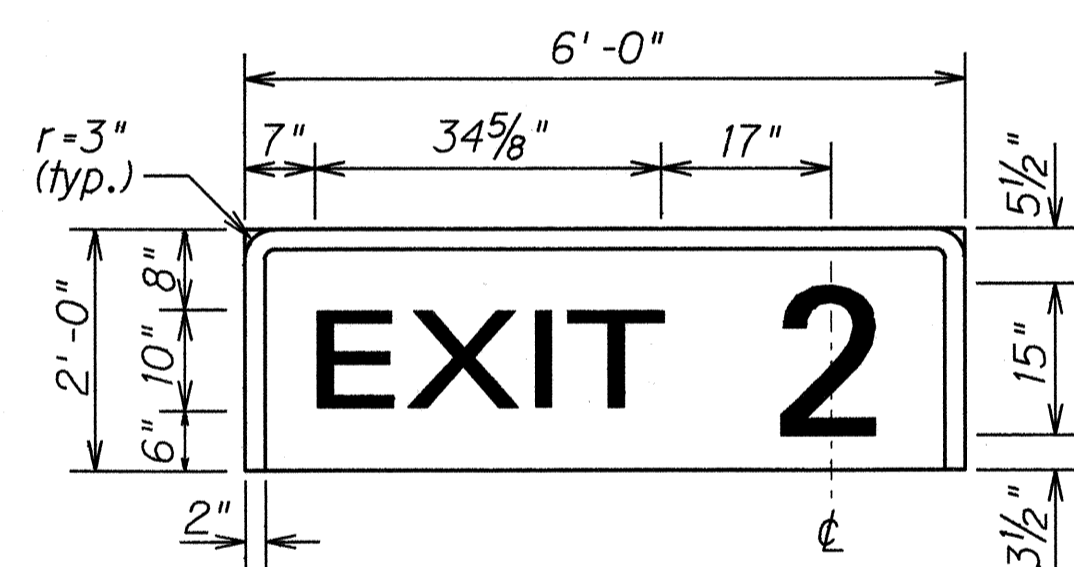
DOUBLE NUMBER



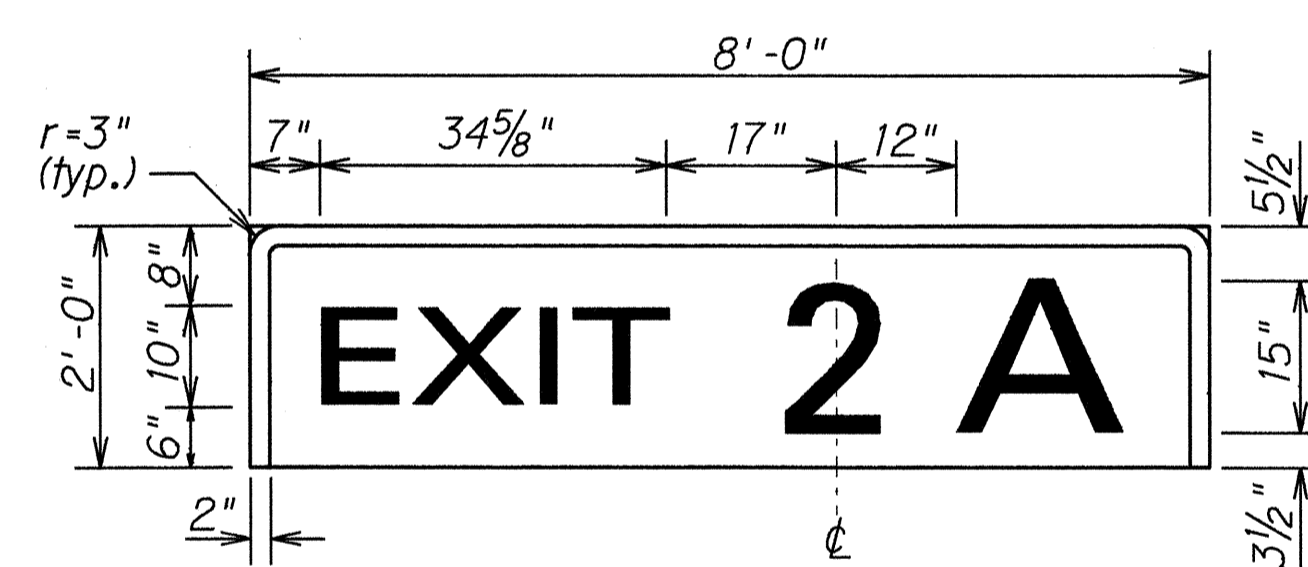
DOUBLE NUMBER
SINGLE LETTER

GORE EXIT SIGNS

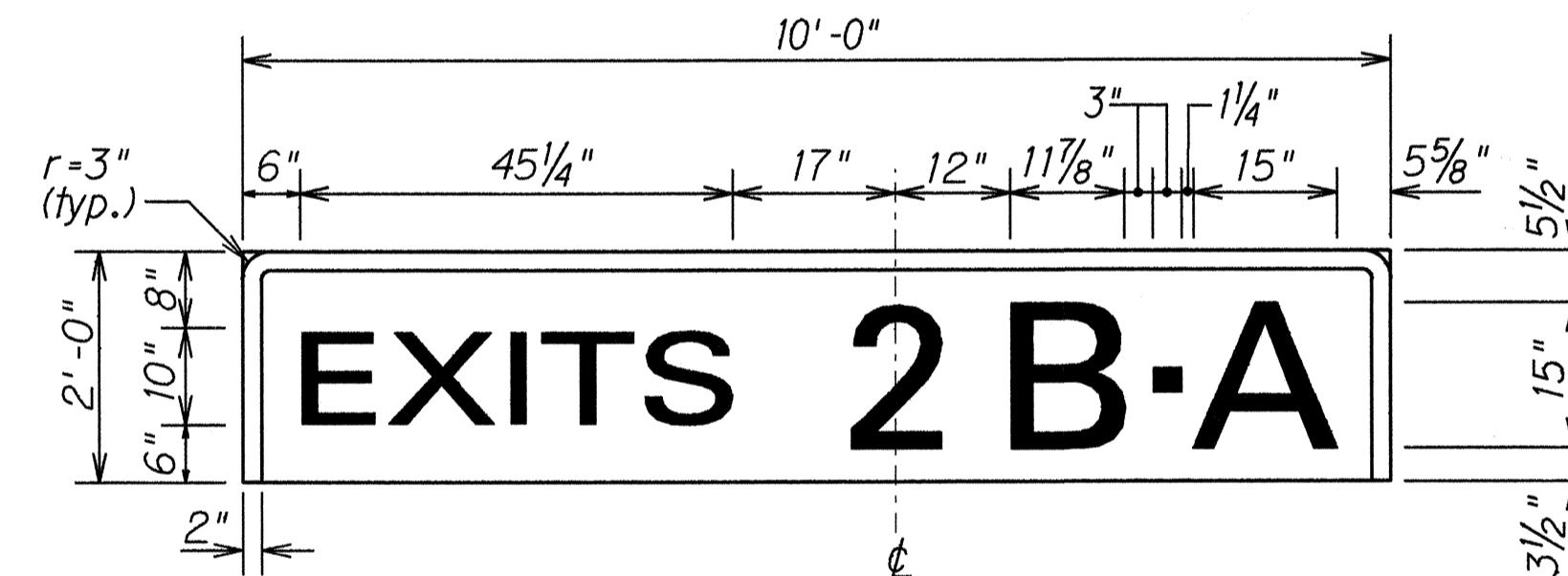
Not to Scale



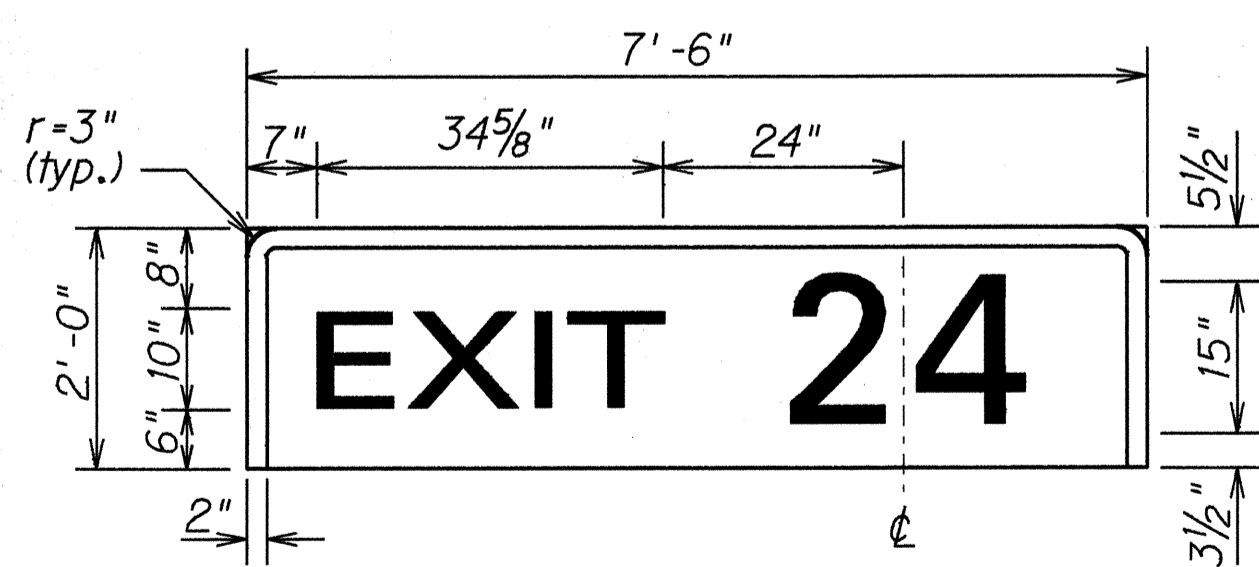
SINGLE NUMBER



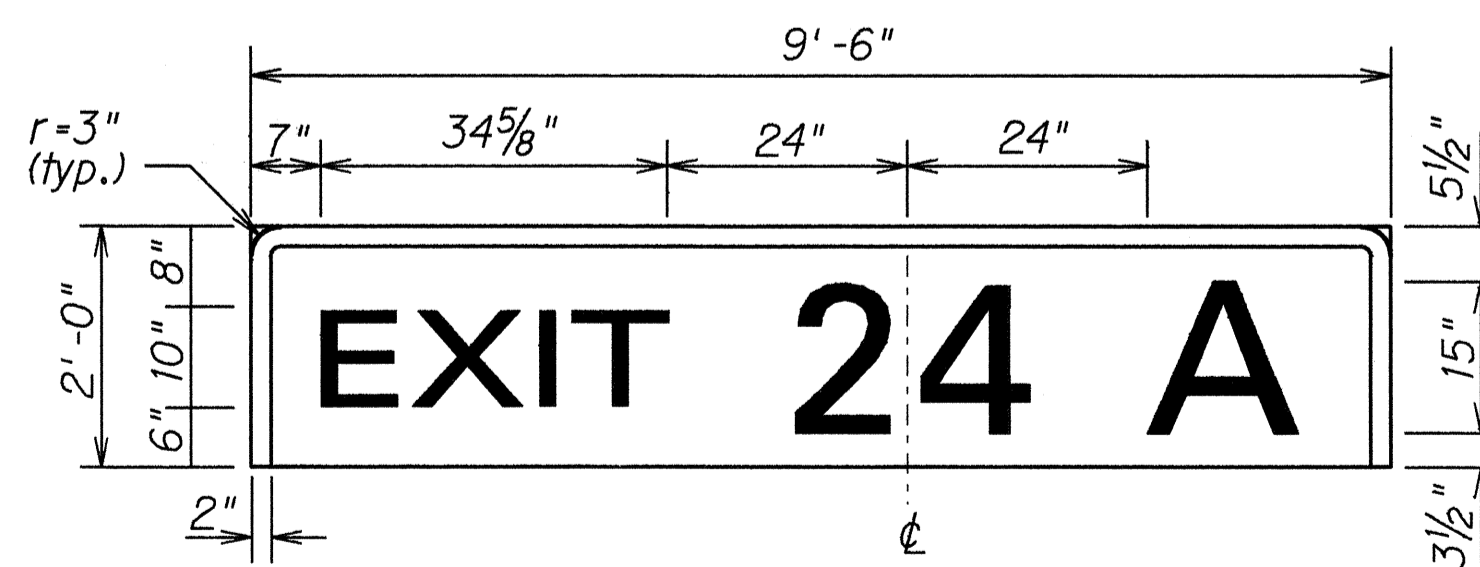
SINGLE NUMBER
W/SINGLE LETTER



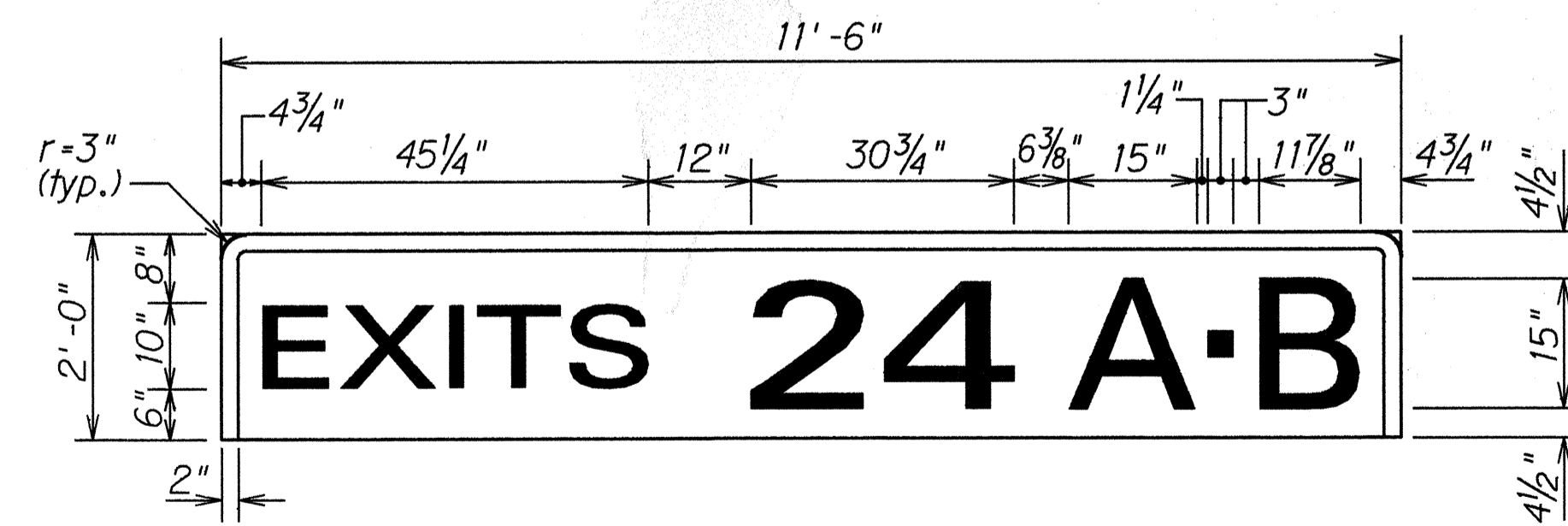
SINGLE NUMBER
W/DOUBLE LETTER



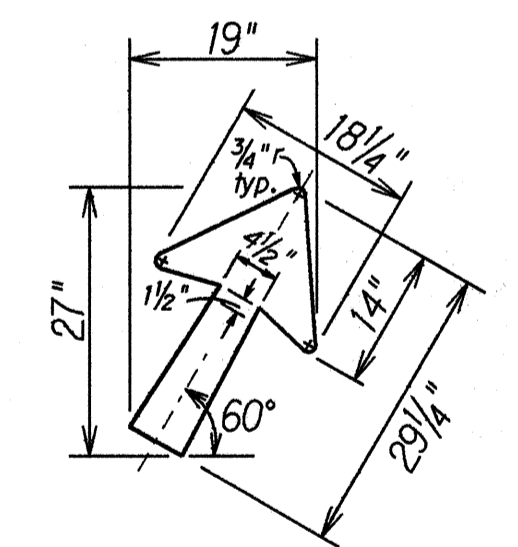
DOUBLE NUMBER



DOUBLE NUMBER
W/SINGLE LETTER



DOUBLE NUMBER
W/DOUBLE LETTER



TYPE "A" DIAGONAL
ARROW DETAIL

Not to Scale

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

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/25/99
10/25/99	DESIGNED BY	
2/2/00	CHECKED BY	
	QUANTITIES BY	
	CHECKED BY	

EXIT NUMBER PANELS

Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL EXIT NUMBER
SIGN PANEL LAYOUT
INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)
Not to Scale Date: Jan., 1999

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	117	120

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 POSTS
R1-1	STOP	1			
R1-2	YIELD	1	2		
R2-1(35)	SPEED LIMIT 35	1			
R2-1(35)-A	SPEED LIMIT 35			1	1
R2-1(45)-A	SPEED LIMIT 45			1	
R2-1(55)-A	SPEED LIMIT 55			5	1
R3-1			1		
R3-1-A				1	
R4-7			1		
R5-1	DO NOT ENTER	4	1		
R5-1-A	DO NOT ENTER			2	2
R5-1a	WRONG WAY	2	1		
R6-1(L)		1	1		
R7-1	NO PARKING ANYTIME	1			
R10-5	LEFT ON ARROW ONLY	1			
R11-1-A	KEEP OFF MEDIAN			1	
R16-1	BUCKLE UP ITS THE LAW	1	1		
R16-5	UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 HP, PEDESTRIANS KEEP OUT FREEWAY			2	5
W3-2a			1		
W3-4a	STOP AHEAD 1500 FT			1	
W3-4b	STOP AHEAD 1000 FT			1	
W3-4c	STOP AHEAD 500 FT				1
W4-1(R)		1	1		
W4-1(R)-A				4	3
W8-6-B	TRUCK CROSSING			1	
W13-2(15)	EXIT 15 M.P.H.			1	
W13-2(25)	EXIT 25 M.P.H.				1
W13-3(25)	RAMP 25 MPH				2
W18-1	RIGHT LANE EXIT ONLY			1	
TOTAL		14	10	22	16

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A _____	4,900 EA.
TYPE C _____	3,200 EA.
TYPE H _____	1,450 EA.
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	2,300 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	1,300 L.F.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	55,000 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	53,000 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	7,000 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	500 L.F.
12-INCH PAVEMENT STRIPE (YELLOW) _____	250 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	330 L.F.
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	1,700 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	135 L.F.
CROSSWALK MARKINGS _____	4 LANES
PAVEMENT ARROW _____	14 EA.

CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POST(S)
CG20-2A	H3 @ Sta. 510+00± Lt.	END ROAD WORK	1
CW20-1Ad	H3 @ Sta. 510+00± Rt.	ROAD WORK AHEAD	1
CW20-1Ad	Ramp "G" Sta. 0+80± Lt.	ROAD WORK AHEAD	1
CW20-1Ad	Ramp "H" Sta. 0+75± Rt.	ROAD WORK AHEAD	1
CW20-1Ad	Ramp "K-3" Sta. 0+00± Rt.	ROAD WORK AHEAD	1
CW20-1Ad	Ramp "K-2" Sta. 0+00± Rt.	ROAD WORK AHEAD	1
CG20-2A	Ramp "K-1A" Sta. 13+00± Lt.	END ROAD WORK	1
CG20-2A	Ramp "K-1" Sta. 16+00± Rt.	END ROAD WORK	1
CG20-2A	Ramp "M-1" Sta. 14+20± Rt.	END ROAD WORK	1
CW20-1Ad	Ramp "M-2" Sta. 1+00± Rt.	ROAD WORK AHEAD	1
CG20-2A	Ramp "M-3" Sta. 13+80± Rt.	END ROAD WORK	1
CW20-1Ad	Ramp "M-4" Sta. 1+40± Lt.	ROAD WORK AHEAD	1
CW20-1Ad	H3 @ Sta. 747+00± Lt.	ROAD WORK AHEAD	1
CG20-2A	H3 @ Sta. 747+00± Rt.	END ROAD WORK	1
CG20-2A	Construction Phase	END ROAD WORK	2
CW20-1Ad	Construction Phase	ROAD WORK AHEAD	2
TOTAL			18

MILEPOST MARKER SUMMARY

LOCATION	SIGN NO. AND MESSAGE	QUANTITY	
		W/POST	W/O POST
@ STA. 528+00± RT. # LT.	D10-5 12	2	
@ STA. 580+00± RT. # LT.	D10-5 13	2	
@ STA. 634+00± RT. # LT.	D10-5 14	2	
@ STA. 685+70± RT.	D10-5 15	1	
@ STA. 686+00± LT.	D10-5 15	1	
@ STA. 740+00± RT. # LT.	D10-5 16	2	
TOTAL		10	

SURVEY PLOTTED BY: DATE: 12/14/97
 DRAWN BY: B. Hill
 TRACED BY: Steven Y.
 NOTE BOOK: Ed Ruby
 DESIGNED BY: Ed Ruby
 CHECKED BY: N. J. Hissam

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
TRAFFIC SUMMARIES
 INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-1(77)
 Date: Jan., 1999
 SHEET No. T35 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	118	120

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	OVERLAY AREA (SQ. FT.)	NEW PANEL AREA (SQ. FT.)	
					W/O POSTS	W/POSTS
D-1	H3 # Sta. 538+00± Lt.	83 Kamehameha Highway EXIT 1/2 MILE	16'-0" x 11'-6"		184.00	
D-2	H3 # Sta. 541+75± Rt.	Kailua 1/2 Kaneohe Bay Dr 3/4 Kaneohe MCBH 3/4	21'-0" x 7'-6"		157.50	
D-3	H3 # Sta. 565+00± Lt.	83 Kamehameha Highway EXIT 1 MILE	16'-0" x 11'-6"		184.00	
D-4	H3 # Sta. 573+00± Rt.	630 Kailua EXIT 1 MILE	12'-0" x 11'-6"		138.00	
D-5	H3 # Sta. 590+50± Lt.	83 Kamehameha Highway EXIT 1/2 MILES	16'-0" x 7'-6"		120.00	
D-6	H3 # Sta. 599+40± Rt.	630 Kailua EXIT 1/2 MILE	11'-6" x 9'-6"		109.25	
D-7	H3 # Sta. 626+50± Rt.	EXIT 14 ↗	7'-6" x 6'-0"		45.00	
D-8	H3 # Sta. 656+00± Rt.	Kaneohe Bay Drive EXIT 1 MILE	20'-6" x 10'-0"		205.00	
D-9	H3 # Sta. 674+00± Rt.	SCENIC POINT ⇒	5'-6" x 2'-6"		13.75	
D-10	H3 # Sta. 686+00± Lt.	SCENIC POINT ⇒	5'-6" x 2'-6"		13.75	
D-11	H3 # Sta. 699+00± Rt.	Kaneohe Bay Drive RIGHT LANE	20'-6" x 9'-6"		194.75	
D-12	H3 # Sta. 709+00± Lt.	EXIT 15 ↗	7'-6" x 6'-0"			45.00
D-13	H3 # Sta. 714+50± Rt.	EXIT 15 ↗	7'-6" x 6'-0"	45.00		
D-14	H3 # Sta. 721+90± Lt.	Kaneohe Bay Drive RIGHT LANE	20'-6" x 9'-6"		194.75	
D-15	H3 # Sta. 738+20± Rt.	MCBH Visitors KEEP RIGHT	6'-6" x 4'-0"			26.00
D-16	H3 # Sta. 745+00± Rt.	FREEWAY ENDS	12'-6" x 5'-6"	68.75		
TOTAL				113.75	1,559.75	71.00

ROUTE MARKER SUMMARY

SIGN ASSEMBLY	LOCATION	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY	
			W/POST	W/O POST
IRM-1	H3 # Sta. 520+00± Rt.	IM-3-2-A EAST IM-1(2) H3	1	
IRM-2	Ramp "H" P.C. Sta. 0+10± Rt.	IM-3-2-A EAST IM-1(2) H3 IM6-2(R) ↗		1
IRM-3	H3 # Sta. 607+50± Lt.	IM-3-4-A WEST IM-1(3) H3	1	
IRM-4	H3 # Sta. 646+50± Lt.	IM-3-4-A WEST IM-1(3) H3	1	
IRM-5	H3 # Sta. 673+00± Lt.	IM-3-4-A WEST IM-1(3) H3	1	
IRM-6	H3 # Sta. 744+00± Lt.	IM-1(3) H3	1	
TOTAL			5	1

EXPRESSWAY SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)	OVERLAY AREA (SQ. FT.)
E-1	H3 # Sta. 623+50± Rt.	630 Kailua ↗	12'-0" x 6'-6"	78.00	
E-2	Ramp "K-1" Sta. 6+00± Rt.	↗ Kaneohe Kailua ↗	7'-6" x 4'-0"		30.00
E-3	Ramp "M-1" Sta. 12+70± Rt.	↗ Kaneohe Kailua ↗	7'-6" x 4'-0"	30.00	
E-4(L)	H3 # Sta. 709+00± Rt.	Kaneohe MCBH ↘ ONLY ↘	19'-0" x 6'-6"		123.50
E-4(R)	H3 # Sta. 709+00± Rt.	Kaneohe Bay Drive ↗	19'-0" x 6'-6"		123.50
E-5	H3 # Sta. 714+30± Lt.	Kaneohe Bay Drive ↗	16'-0" x 9'-0"	144.00	
E-6	Ramp "M-3" Sta. 12+40± Rt.	↗ Kailua Kaneohe ↗	7'-6" x 4'-0"		30.00
E-7	H3 # Sta. 722+00± Rt.	FREEWAY ENDS 1/2 MILE	12'-6" x 8'-0"		100.00
TOTAL				252.00	407.00

EXIT SIGN SUMMARY

LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)
			W/O POSTS
H3 # Sta. 538+00± Lt.	EXIT 11	7'-6" x 2'-0"	15.00
H3 # Sta. 565+00± Lt.	EXIT 11	7'-6" x 2'-0"	15.00
H3 # Sta. 573+00± Rt.	EXIT 14	7'-6" x 2'-0"	15.00
H3 # Sta. 590+50± Lt.	EXIT 11	7'-6" x 2'-0"	15.00
H3 # Sta. 599+40± Rt.	EXIT 14	7'-6" x 2'-0"	15.00
H3 # Sta. 656+00± Rt.	EXIT 15	7'-6" x 2'-0"	15.00
H3 # Sta. 699+00± Rt.	EXIT 15	7'-6" x 2'-0"	15.00
H3 # Sta. 721+90± Lt.	EXIT 15	7'-6" x 2'-0"	15.00
H3 # Sta. 623+50± Rt.	EXIT 14	7'-6" x 2'-0"	15.00
H3 # Sta. 709+00± Rt.	EXIT 15	7'-6" x 2'-0"	15.00
H3 # Sta. 714+30± Lt.	EXIT 15	7'-6" x 2'-0"	15.00
TOTAL			165.00

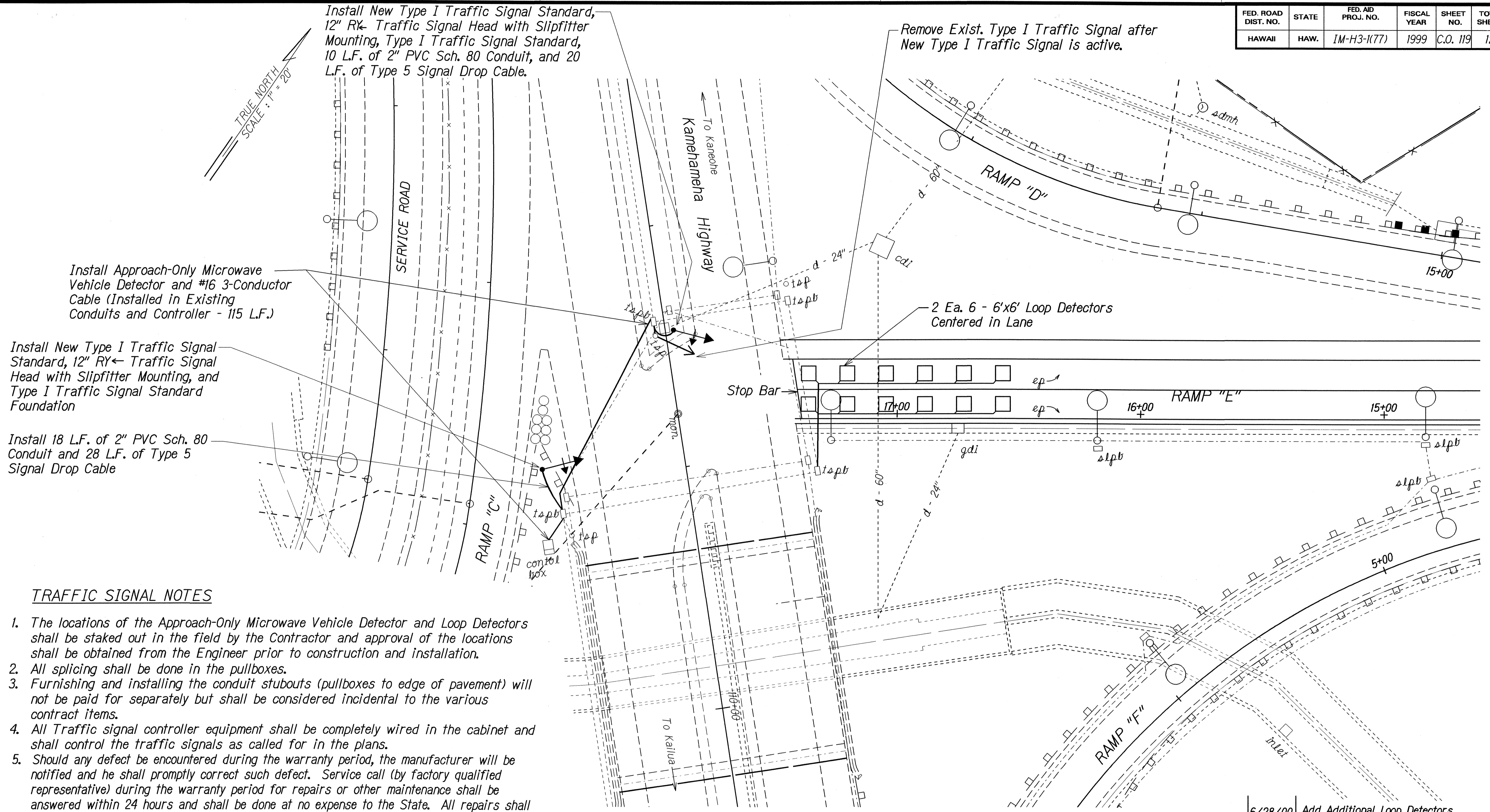
REFLECTOR MARKER SUMMARY

TYPE	QUANTITY									
	W/O POST		W/FLEXIBLE POST		W/STEEL POST		MOUNT ON BRIDGE PIPE RAILING		MOUNT ON CONCRETE GUARDRAIL	
	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE
RM-2		4	63	225	16	218		5		57
RM-9					5					

SURVEY PLOTTED BY DATE 8/18/97
 DRAWN BY H. ACH
 NOTED BOOK
 QUANTITIES BY
 CHECKED BY

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
TRAFFIC SUMMARIES
 INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-1(77)
 Date: Jan., 1999
 SHEET No. T36 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-(77)	1999	C.O. 119	120



TRAFFIC SIGNAL NOTES

1. The locations of the Approach-Only Microwave Vehicle Detector and Loop Detectors shall be staked out in the field by the Contractor and approval of the locations shall be obtained from the Engineer prior to construction and installation.
2. All splicing shall be done in the pullboxes.
3. Furnishing and installing the conduit stubouts (pullboxes to edge of pavement) will not be paid for separately but shall be considered incidental to the various contract items.
4. All Traffic signal controller equipment shall be completely wired in the cabinet and shall control the traffic signals as called for in the plans.
5. Should any defect be encountered during the warranty period, the manufacturer will be notified and he shall promptly correct such defect. Service call (by factory qualified representative) during the warranty period for repairs or other maintenance shall be answered within 24 hours and shall be done at no expense to the State. All repairs shall be done as soon as possible.
6. All traffic signal work shall conform to the requirements of the "Manual On Uniform Traffic Control Devices For Streets And Highways", Federal Highway Administration (1988) and Amendments.
7. Locations of traffic markings and markers (lane lines, Stop lines, crosswalk, etc.) shown on the plans shall be verified with the Engineer prior to the installation of the traffic signal system.
8. After installing all the traffic signal cables, the Contractor shall duct seal all conduits in the pullboxes, traffic signal standards and traffic signal controller cabinet concrete base. The duct seal material shall be approved by the Traffic Signal Inspector/Engineer and shall not be paid for separately but considered incidental to the direct buried and/or concrete encased conduits.

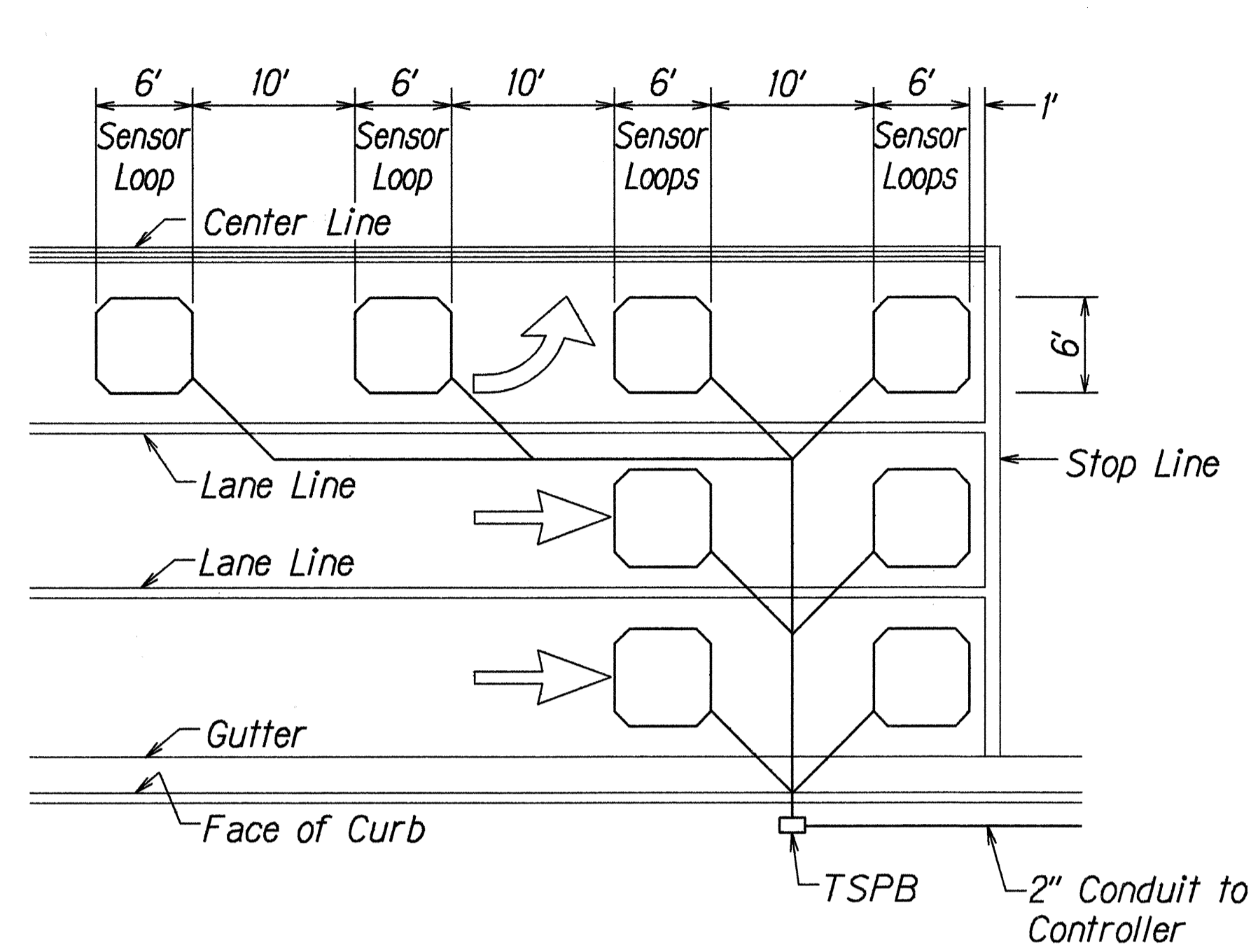
9. Connecting into existing traffic signal system and making all necessary adjustments shall not be paid for separately, but considered incidental to the various traffic signal contract items.
10. The Contractor shall notify the Traffic Control Branch, Department of Transportation Services, City & County of Honolulu, (phone no. 523-4589) two weeks prior to commencing any work on the traffic signal system.
11. The Department of Transportation Services, City & County of Honolulu, will assist the Engineer in construction inspection for the traffic signal system. The Contractor shall notify the Electrical and Maintenance Services Division, Department of Transportation Services, three (3) working days prior to commencing work on the traffic signal system (phone no. 527-5007).

DATE: 1/29/99
 SURVEY PLOTTED BY: [blank]
 DRAWN BY: [blank]
 DESIGNED BY: [blank]
 QUANTITIES BY: [blank]
 CHECKED BY: [blank]

DATE	REVISION
6/28/00	Add Additional Loop Detectors, Signal Poles and Conduit

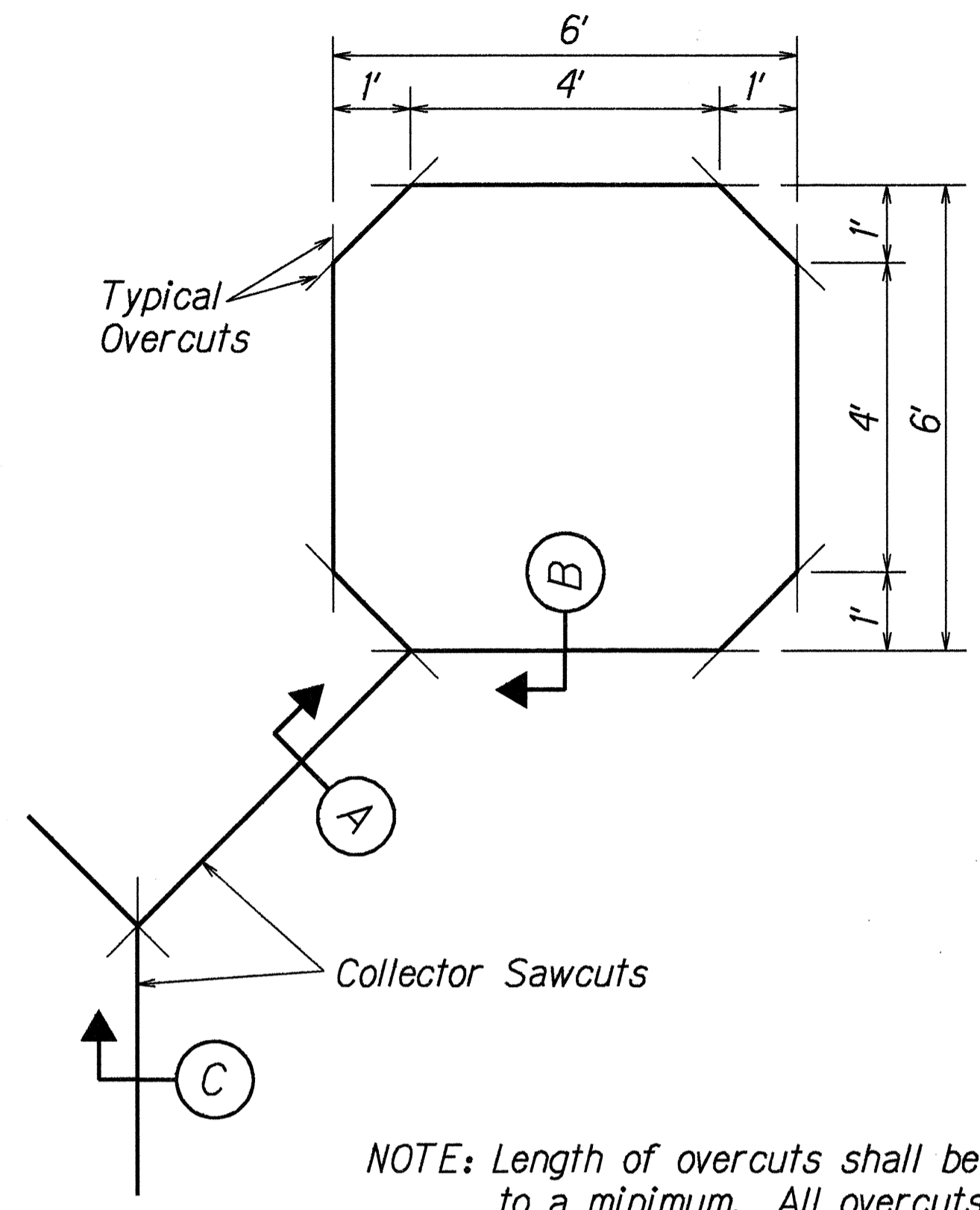
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
LOOP DETECTOR PLAN & NOTES
 INTERSTATE ROUTE H-3 RESURFACING
 Halekou Interchange to Marine Corps Air Base
 Federal Aid Project No. IM-H3-(77)
 Scale: 1"=20' Date: Jan., 1999

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(77)	1999	120	120



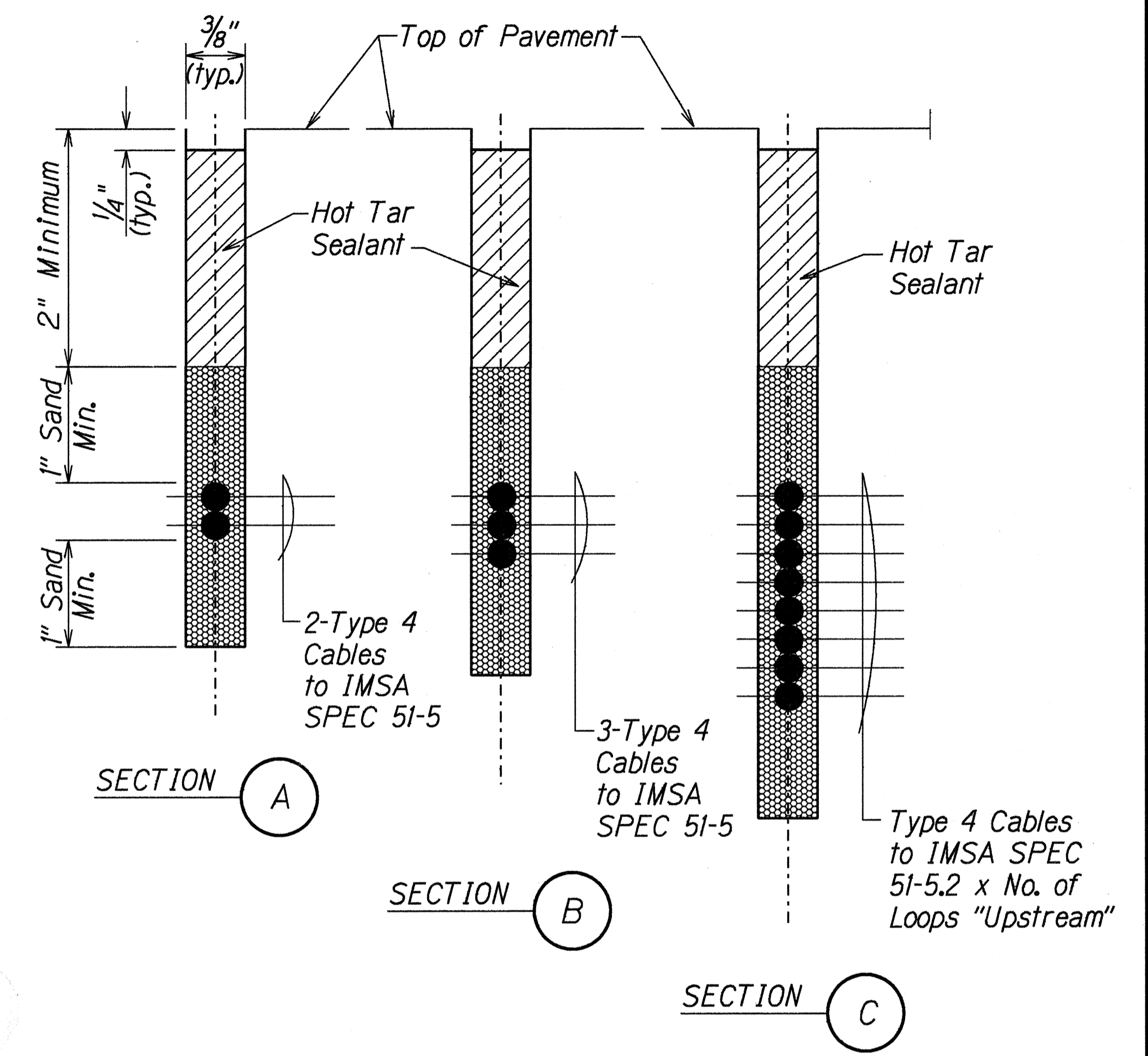
- NOTES:
1. Center sensor loops in lanes.
 2. Collector cables shall be twisted 2 turns per foot.
 3. Number of loops and locations vary. See project plans.
 4. Number and locations of collector sawcuts may be varied in the field to suit.

TYPICAL SENSOR LOOP LAYOUT

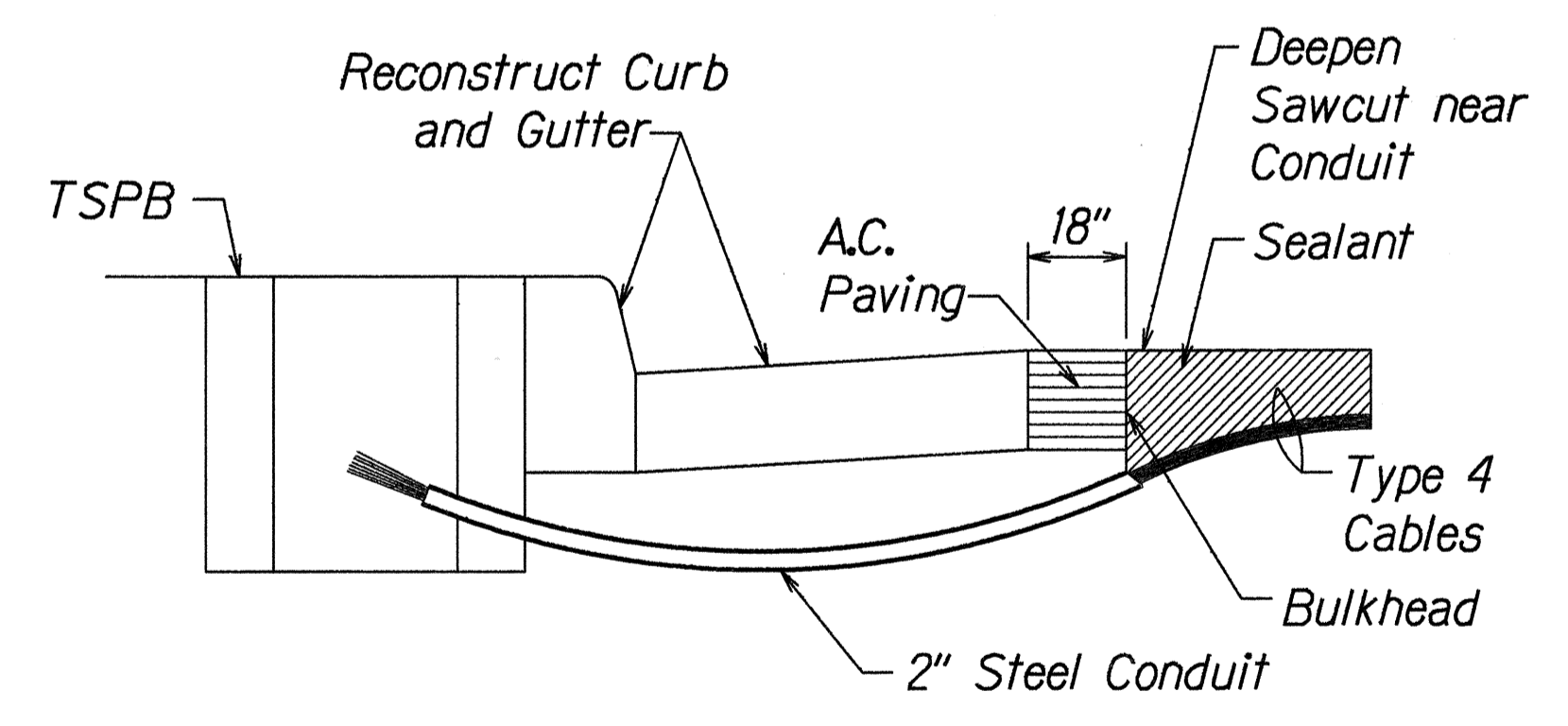


NOTE: Length of overcuts shall be kept to a minimum. All overcuts shall be back filled with hot tar.

TYPICAL SENSOR LOOP SAWCUT DETAIL



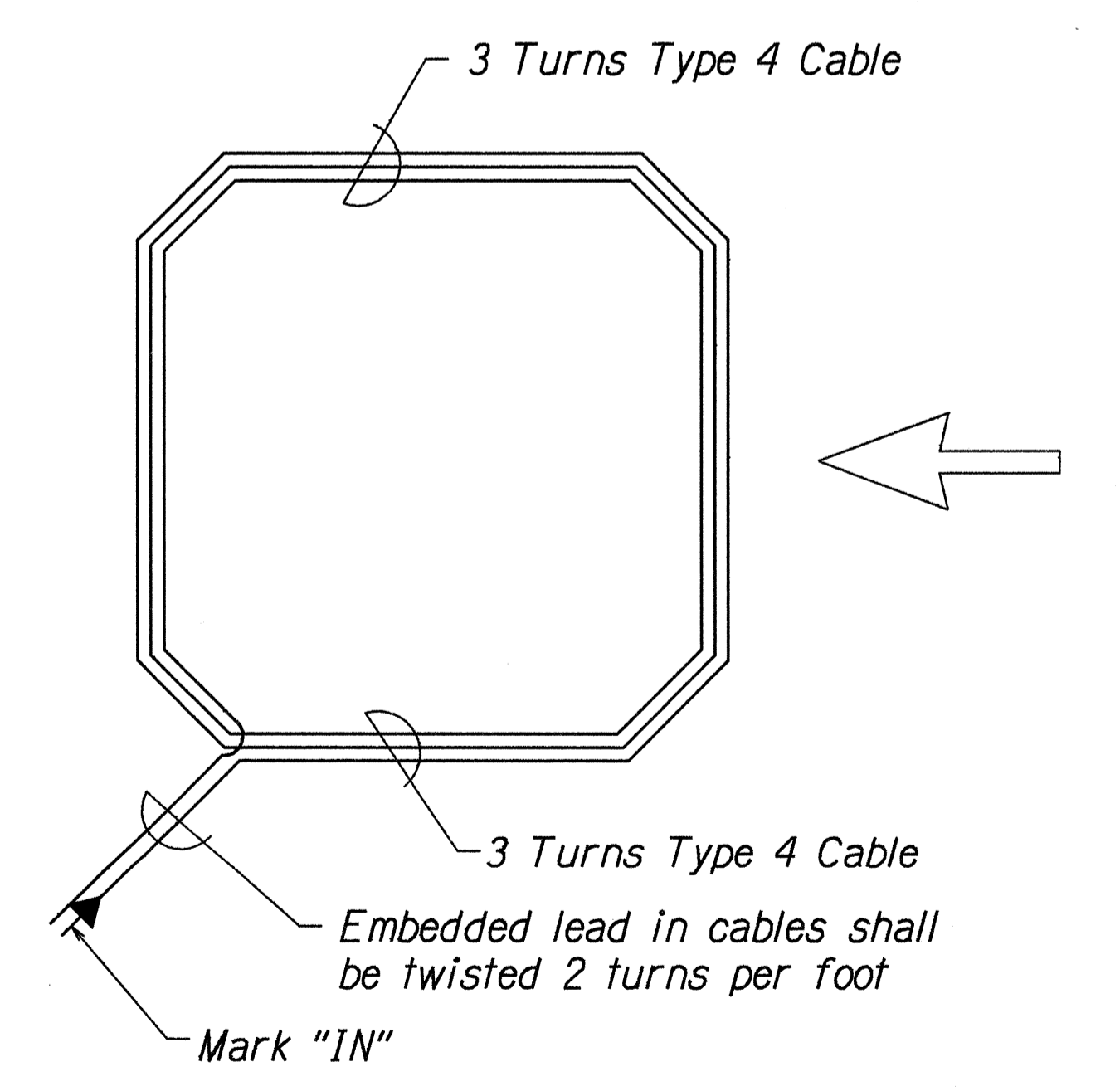
TYPICAL SECTION THROUGH SENSOR LOOP



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

DATE	X
SURVEY PLATTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
REVISIONS	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR DETAILS

INTERSTATE ROUTE H-3 RESURFACING
Halekou Interchange to Marine Corps Air Base
Federal Aid Project No. IM-H3-1(77)
Not to Scale Date: Jan., 1999
SHEET No. T38 OF 38 SHEETS