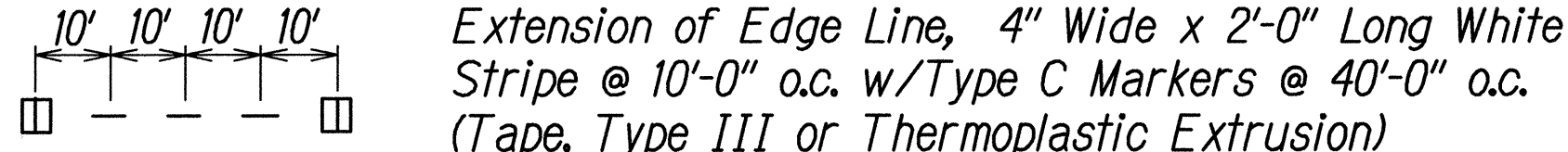
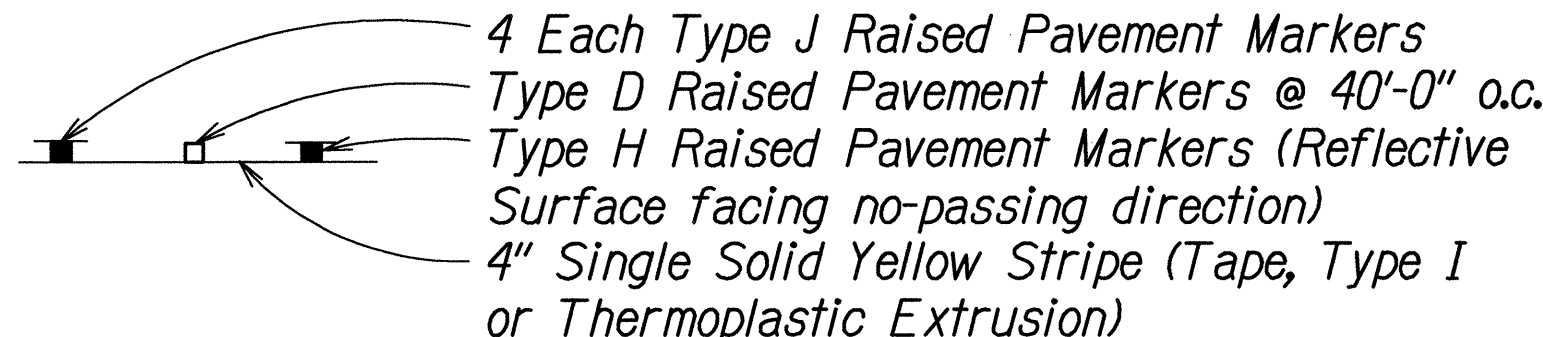
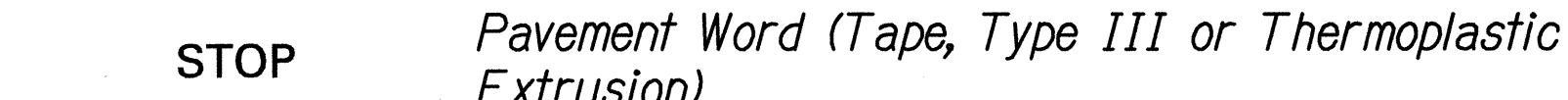
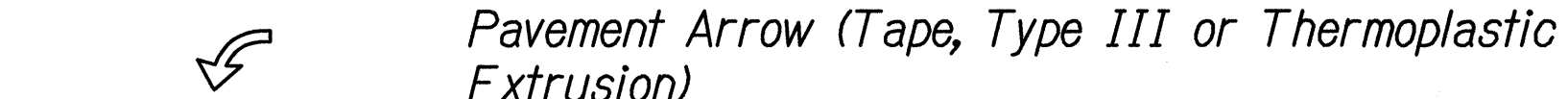
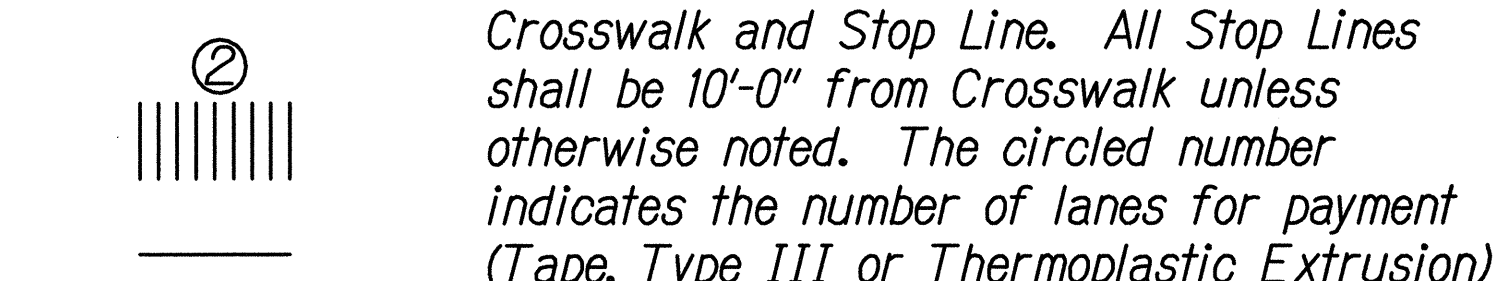
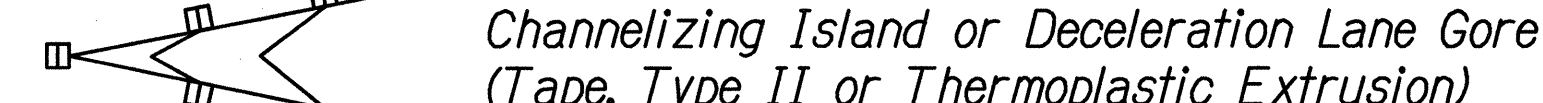
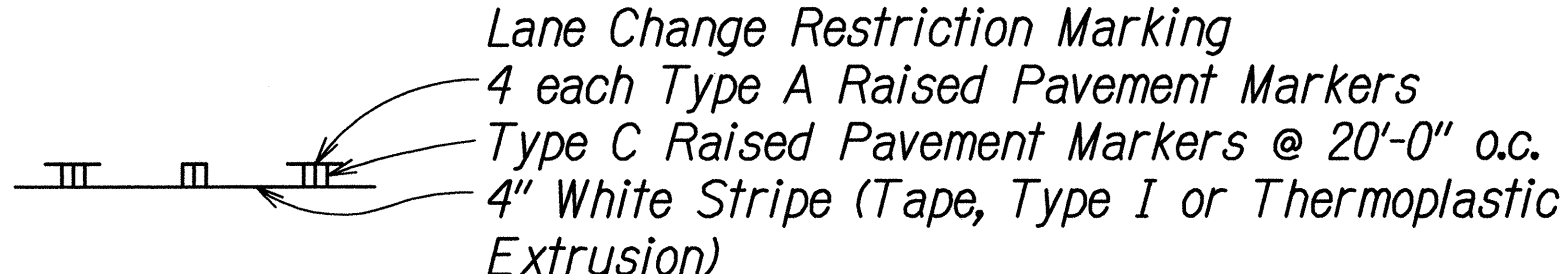


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	HSIP-H3-1(081)	2013	20	36

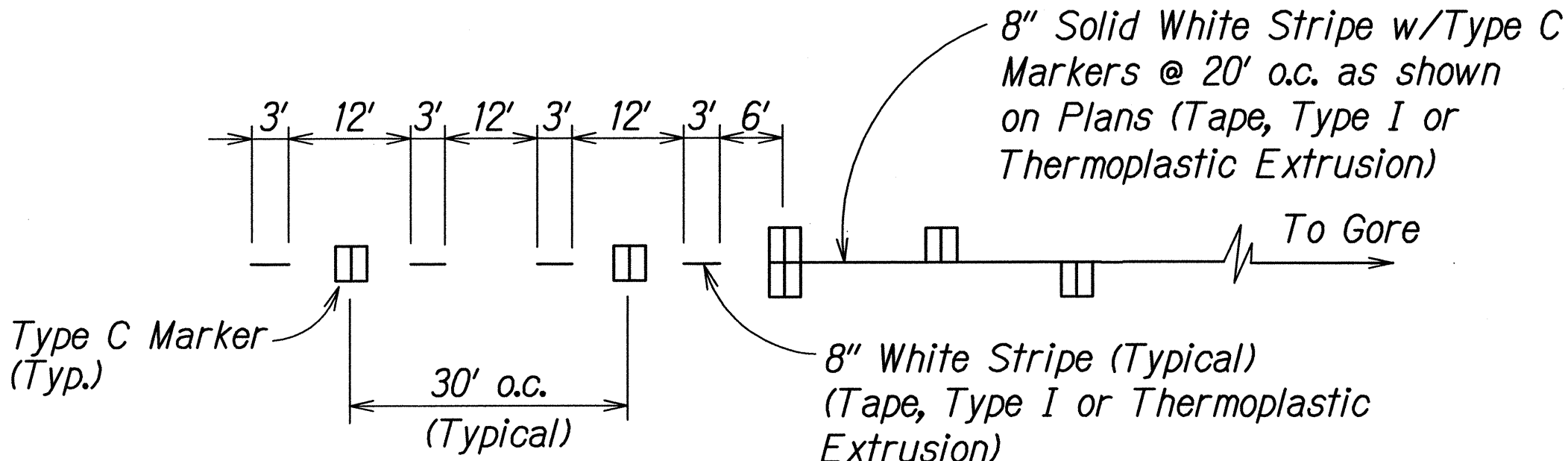
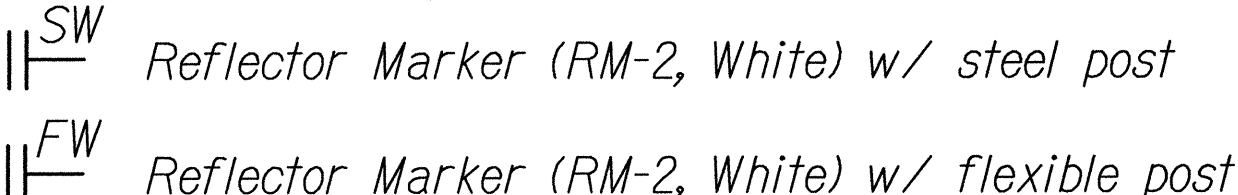
LEGEND



NOTES

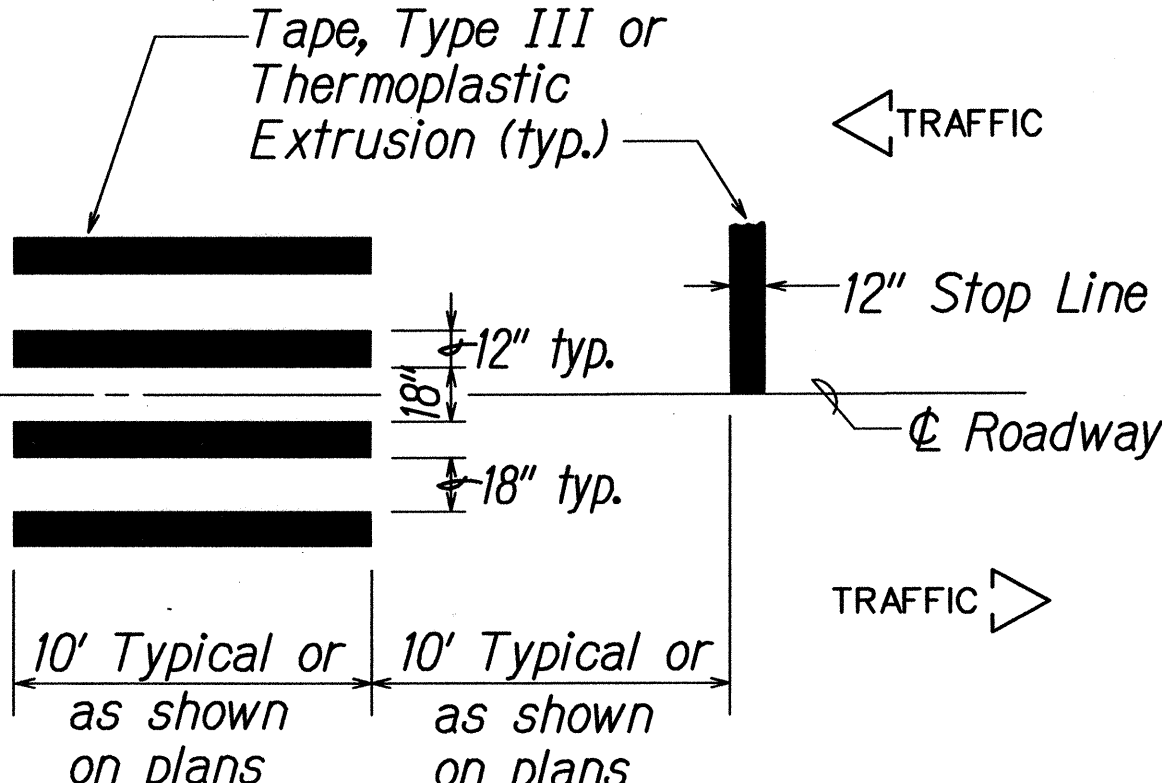
1. *Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.*
2. *Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various 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. *All pedestrian warning signs with supplemental sign shall be on a fluorescent yellow-green retroreflective background with a black legend and border.*

LEGEND:



LANE DROP MARKING

Not to Scale



Not to Scale

CROSSWALK STRIPING DETAIL

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK 1d2m 6h37leg 4.	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
	CHECKED BY _____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

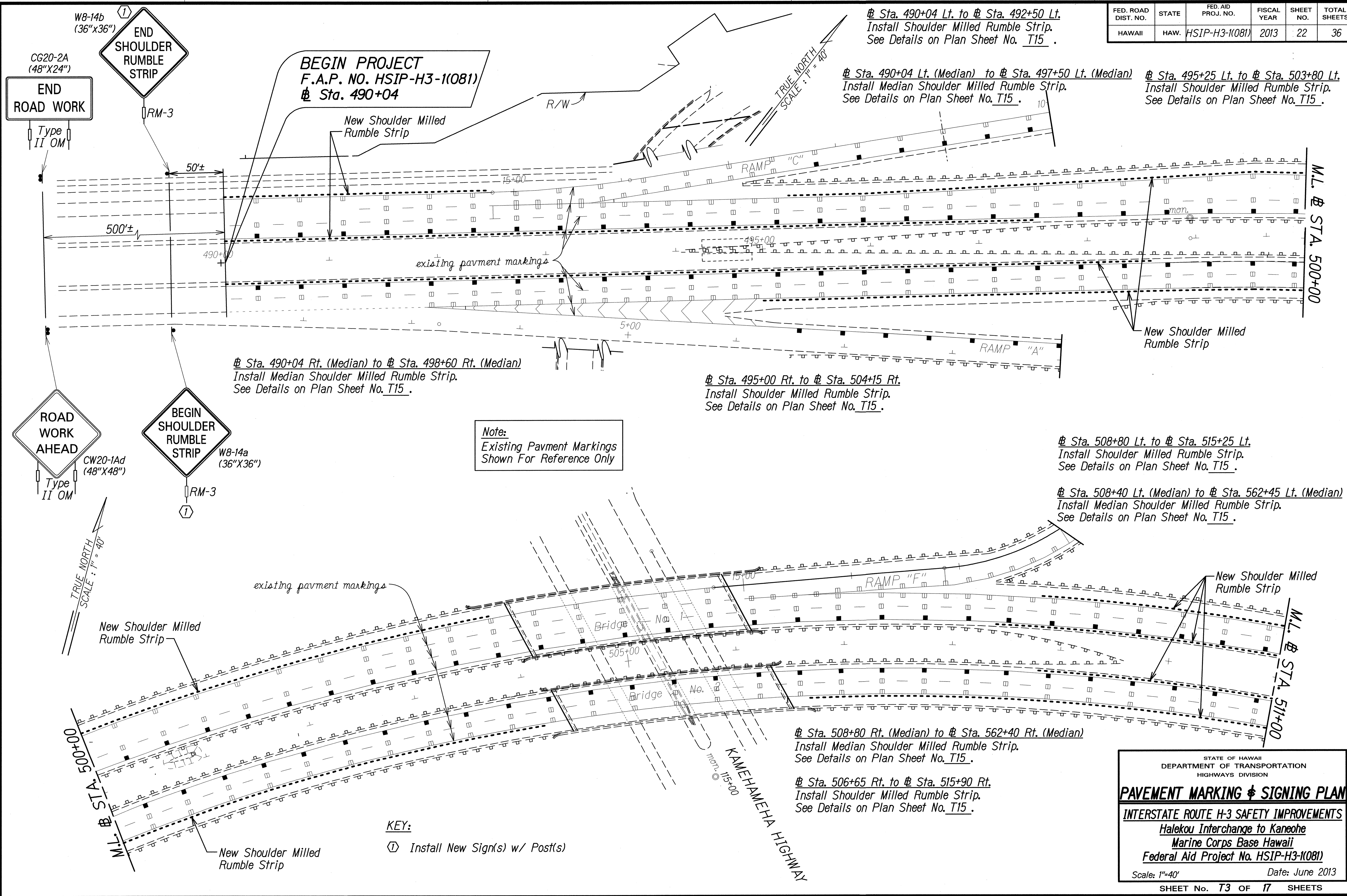
PAVEMENT MARKING
LEGEND, DETAILS & NOTES

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS

Halekou Interchange to Kaneohe
Marine Corp Base Hawaii
Federal Aid Project No. HSIP-H3-1(081)

Scale: As Shown **Date: June 2013**

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	22	36



ORIGINAL PLAN	DATE
NOTE BOOK	DESIGNED BY
10/2/2010	QUANTITIES BY
6/12/2010	CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H3-1(081)

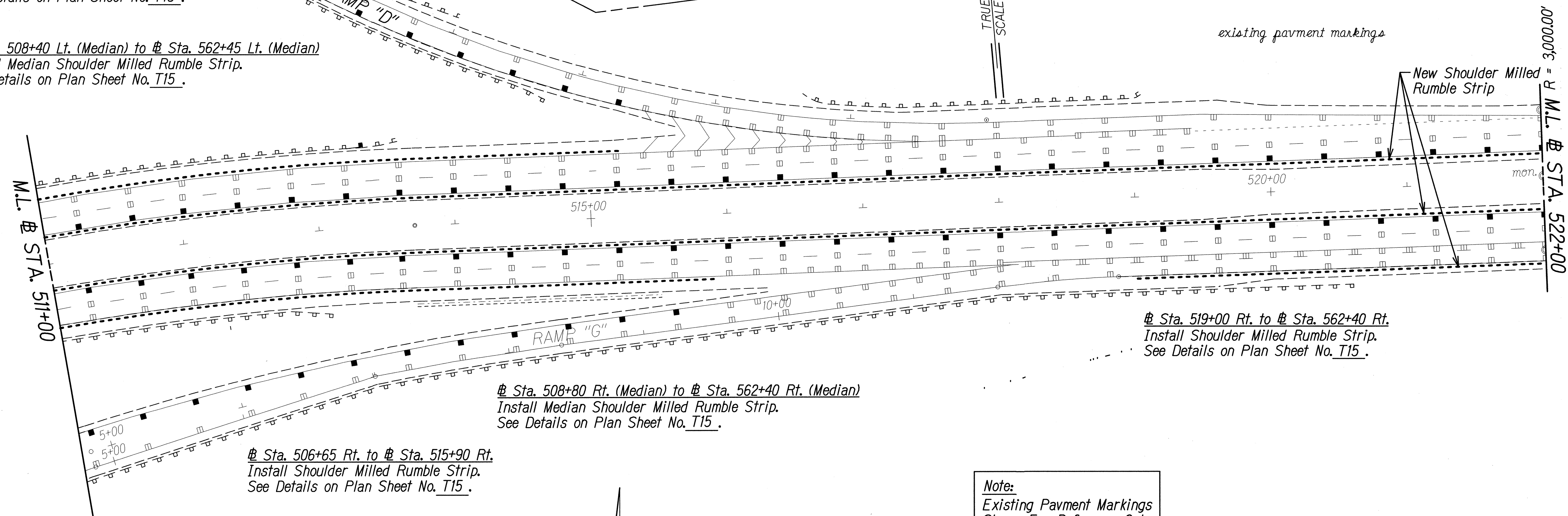
Scale: 1"=40' Date: June 2013

SHEET No. 23 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	23	36

Sta. 508+80 Lt. to Sta. 515+25 Lt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 508+40 Lt. (Median) to Sta. 562+45 Lt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.



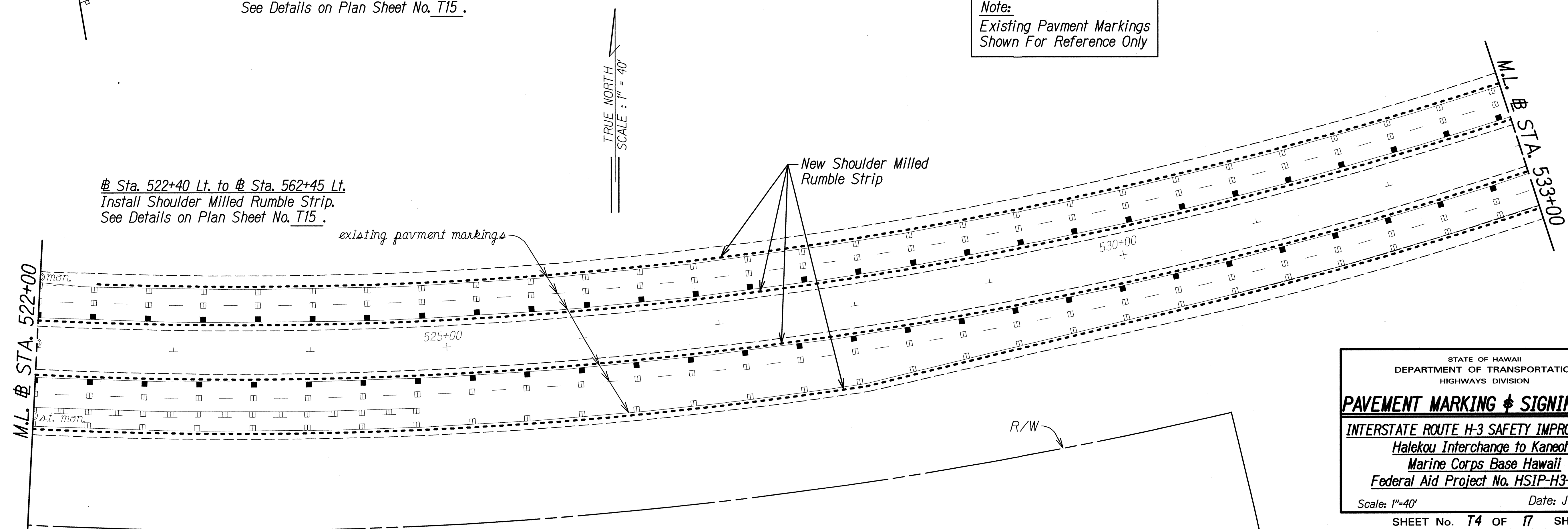
Sta. 519+00 Rt. to Sta. 562+40 Rt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 508+80 Rt. (Median) to Sta. 562+40 Rt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 506+65 Rt. to Sta. 515+90 Rt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Note:
Existing Pavment Markings
Shown For Reference Only

Sta. 522+40 Lt. to Sta. 562+45 Lt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS

Halekou Interchange to Kaneohe

Marine Corps Base Hawaii

Federal Aid Project No. HSIP-H3-1(081)

Scale: 1"=40'

Date: June 2013

SHEET No. T4 OF 17 SHEETS

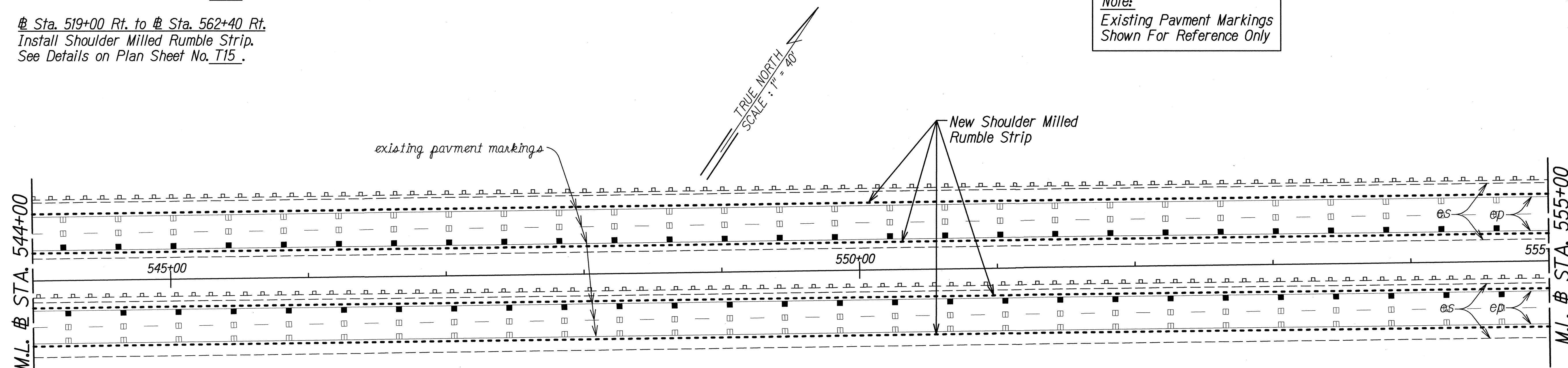
M.L. STA. 533+00
 M.L. STA. 544+00
 R/W
 TRUE NORTH
 SCALE: 1" = 40'
 existing pavement markings
 New Shoulder Milled Rumble Strip
 STA. 518+00 Lt. to STA. 562+45 Lt.
 Install Shoulder Milled Rumble Strip.
 See Details on Plan Sheet No. T15.
 STA. 508+40 Lt. (Median) to STA. 562+45 Lt. (Median)
 Install Median Shoulder Milled Rumble Strip.
 See Details on Plan Sheet No. T15.
 535+00
 540+00
 MON.

Sta. 508+40 Lt. (Median) to # Sta. 562+45 Lt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 508+80 Rt. (Median) to # Sta. 562+40 Rt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15 .

Sta. 519+00 Rt. to # Sta. 562+40 Rt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15 .

Note:
Existing Pavment Markings
Shown For Reference Only



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS

Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H3-1(K081)

Scale: 1"=40' Date: June 2013

SHEET No. 75 OF 17 SHEETS

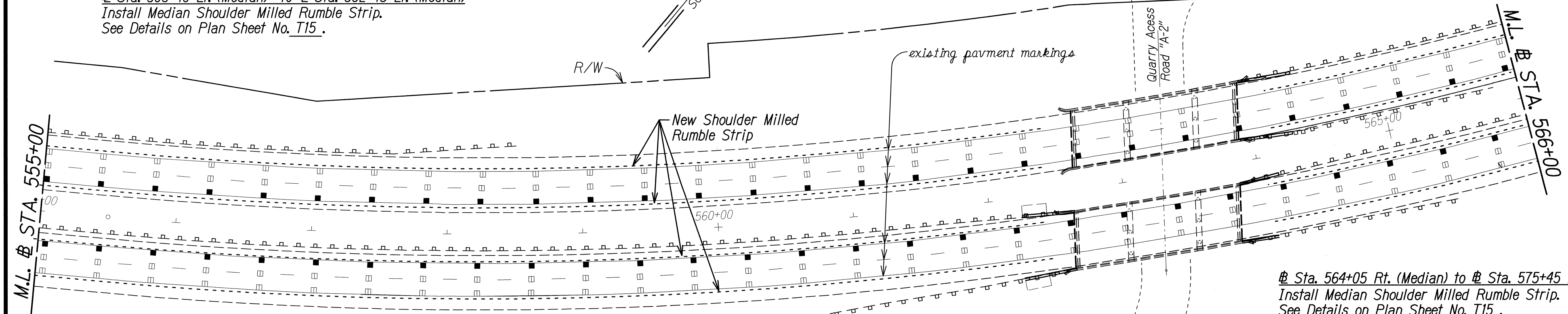
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	25	36

Sta. 518+00 Lt. to # Sta. 562+45 Lt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 508+40 Lt. (Median) to # Sta. 562+45 Lt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 564+15 Lt. to # Sta. 574+70 Lt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 564+15 Lt. (Median) to # Sta. 575+00 Lt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.



Sta. 508+80 Rt. (Median) to # Sta. 562+40 Rt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

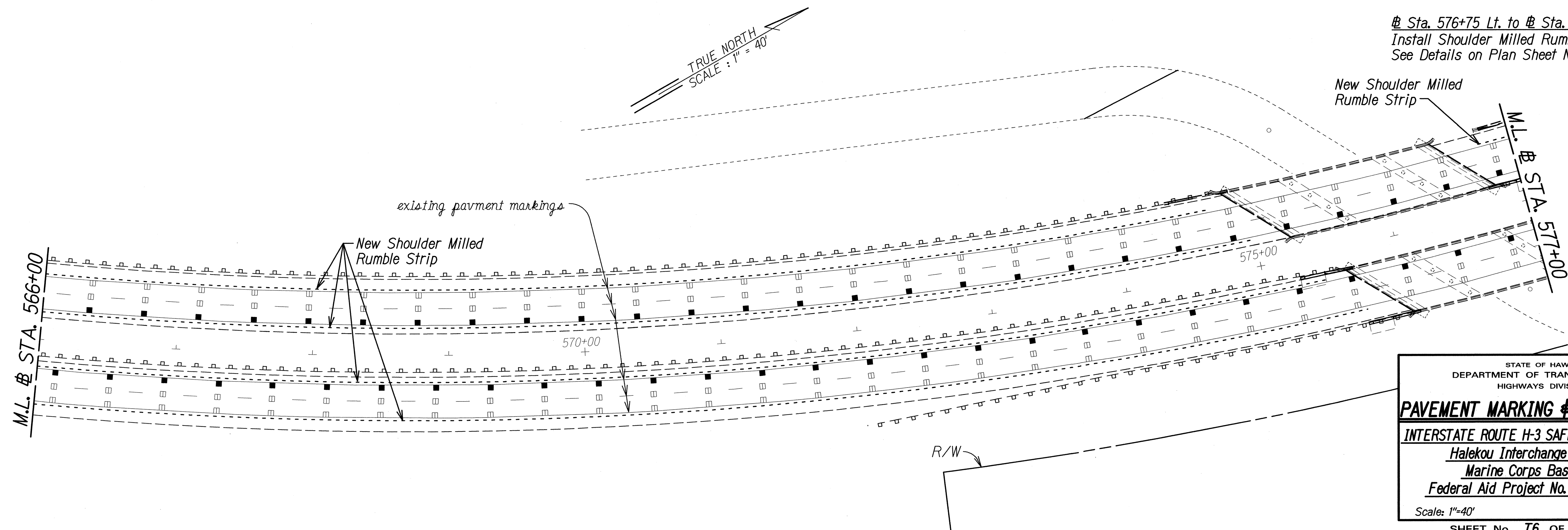
Sta. 519+00 Rt. to # Sta. 562+40 Rt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Note:
Existing Pavment Markings
Shown For Reference Only

Sta. 564+05 Rt. (Median) to # Sta. 575+45 Rt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 564+05 Rt. to # Sta. 575+70 Rt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 576+75 Lt. to # Sta. 608+20 Lt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H3-1(081)

Scale: 1"=40' Date: June 2013

SHEET No. T6 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-(K081)	2013	26	36

Sta. 576+75 Lt. to Sta. 608+20 Lt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 577+00 Lt. (Median) to Sta. 631+00 Lt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 577+40 Rt. (Median) to Sta. 631+05 Rt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 577+60 Rt. to Sta. 621+20 Rt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Note:
Existing Pavment Markings
Shown For Reference Only

M.L. STA. 577+00

M.L. STA. 588+00

TRUE NORTH
SCALE : 1" = 40'

M.L. STA. 588+00

M.L. STA. 599+00

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H3-(K081)

Scale: 1"=40' Date: June 2013

SHEET No. 17 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	27	36

Sta. 576+75 Lt. to # Sta. 608+20 Lt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 577+00 Lt. (Median) to # Sta. 630+95 Lt. (Median) R/W
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

M.L. # STA. 599+00

Sta. 577+40 Rt. (Median) to # Sta. 631+05 Rt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 577+60 Rt. to # Sta. 616+00 Rt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Note:
Existing Pavment Markings
Shown For Reference Only

TRUE NORTH
SCALE : 1" = 40'

M.L. # STA. 610+00

New Shoulder Milled Rumble Strip

RAMP "K-2"

existing pavment markings

Tie Into Existing Pavment Markings

M.L. # STA. 621+00

Sta. 619+50 to # Sta. 626+70, Rt.
Install New Pavement Markings Over
New A.C. Resurfacing Area

R/W

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

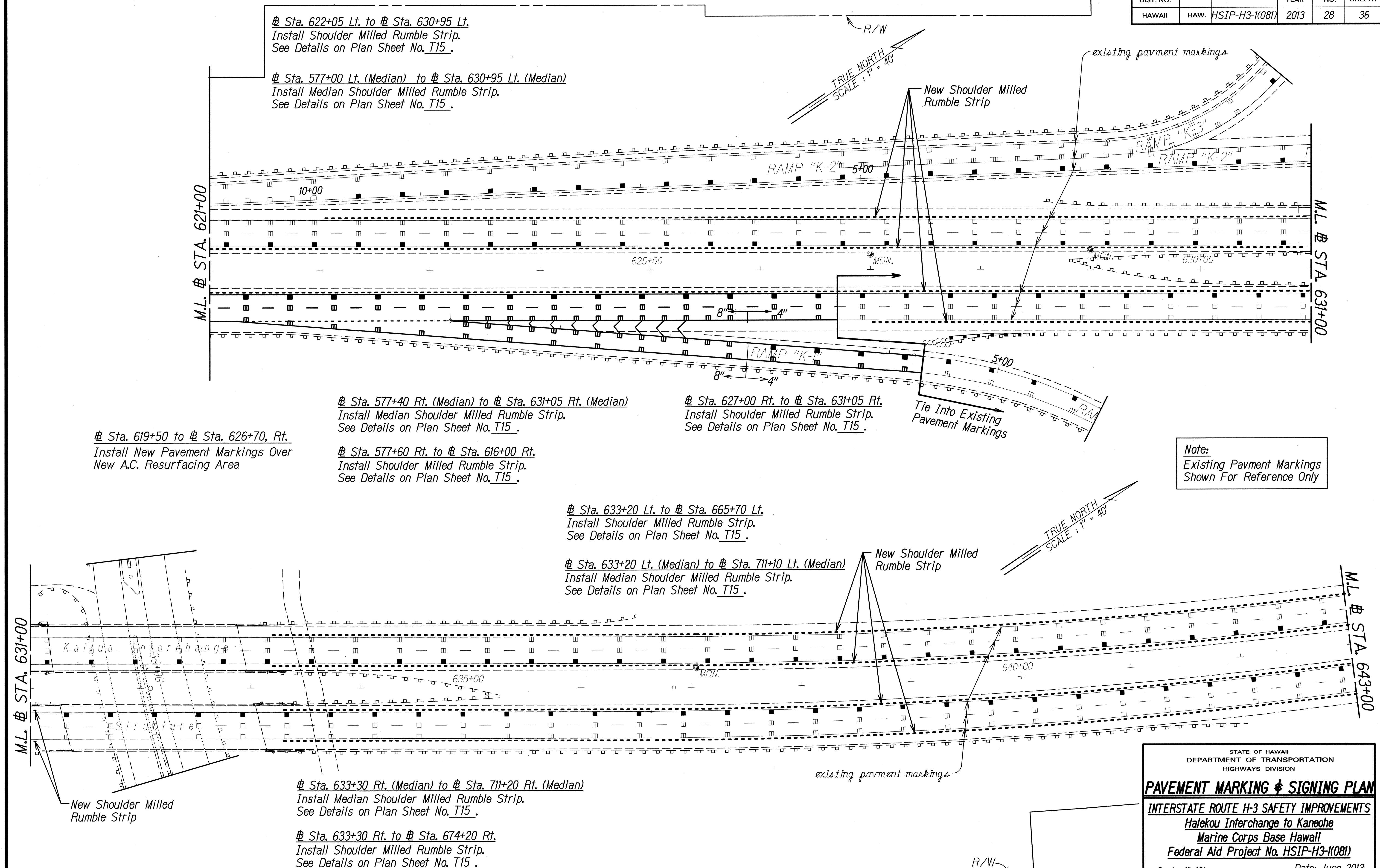
PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H3-1(081)

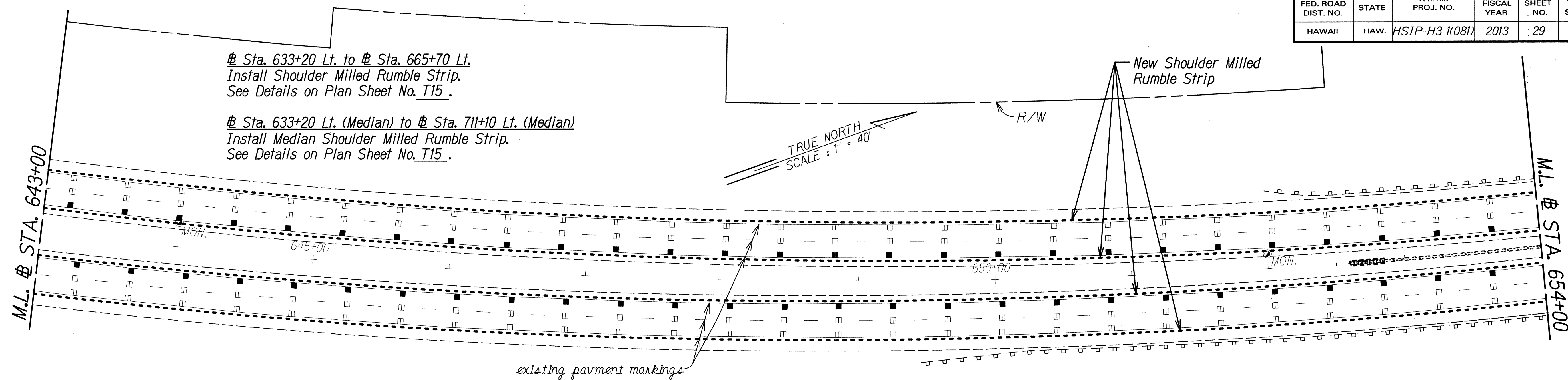
Scale: 1"=40' Date: June 2013

SHEET No. T8 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	28	36



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	29	36

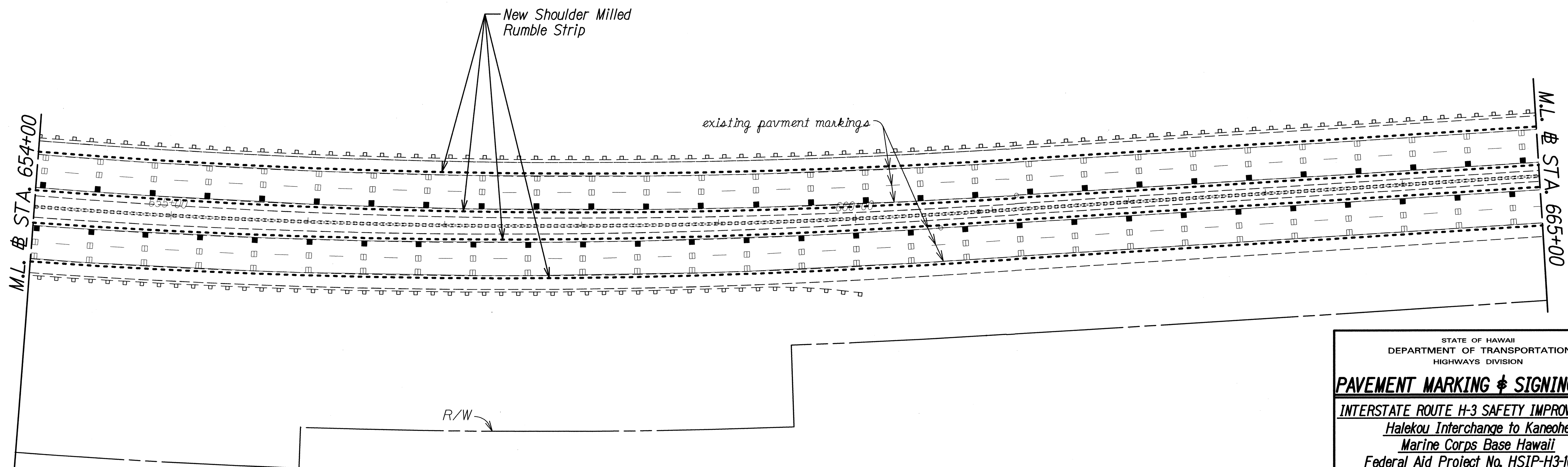


Sta. 633+30 Rt. (Median) to # Sta. 711+20 Rt. (Median)
 Install Median Shoulder Milled Rumble Strip.
 See Details on Plan Sheet No. T15.

Sta. 633+30 Lt. to # Sta. 674+00 Lt.
 Install Shoulder Milled Rumble Strip.
 See Details on Plan Sheet No. T15.

TRUE NORTH
SCALE : 1" = 40'

Note:
 Existing Pavment Markings
 Shown For Reference Only



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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN
 INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
 Halekou Interchange to Kaneohe
 Marine Corps Base Hawaii
 Federal Aid Project No. HSIP-H3-1(081)
 Scale: 1"=40' Date: June 2013

SHEET No. T10 OF 17 SHEETS

*New Shoulder Milled
Rumble Strip*

TRUE NORTH
SCALE : 1" = 40'

existing pavement markings

M.L. ~~ST~~ STA. 665+00

M.L. # STA. 676+00

*New Shoulder Milled
—Rumble Strip*

TRUE NORTH
SCALE : 1" = 40'

existing pavement markings

M.L. STA. 676+00

existing pavement markings

M.L. # STA. 687+00

existing pavement markings

existing pavement markings

$R/W \rightarrow$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

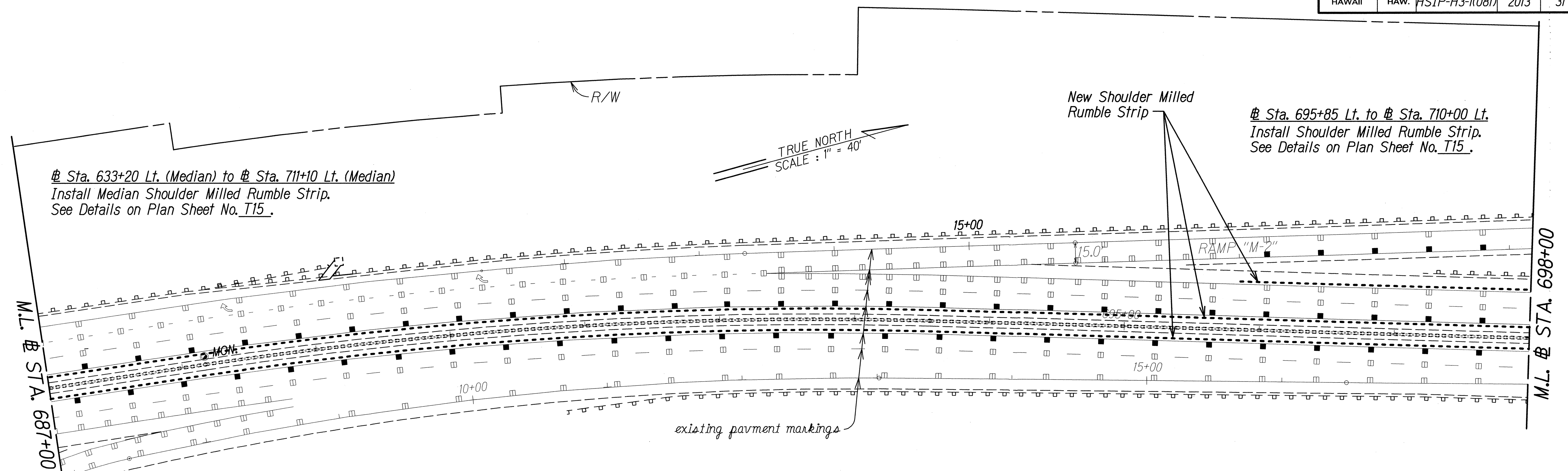
INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS

Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H-3(K081)

Scale: 1"=40' Date: June 2013

SHEET No. 11 OF 17 SHEETS

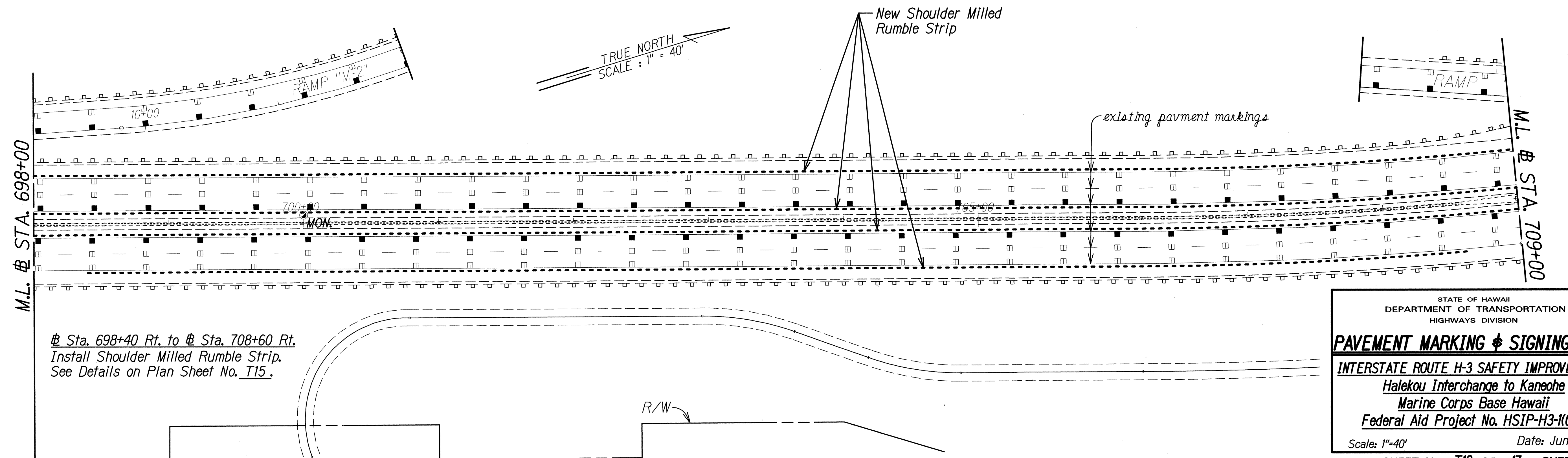
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	31	36



Sta. 633+20 Lt. (Median) to Sta. 711+10 Lt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Sta. 633+30 Rt. (Median) to Sta. 711+20 Rt. (Median)
Install Median Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

Note:
Existing Pavment Markings
Shown For Reference Only



Sta. 698+40 Rt. to Sta. 708+60 Rt.
Install Shoulder Milled Rumble Strip.
See Details on Plan Sheet No. T15.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
N. 6163/140		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

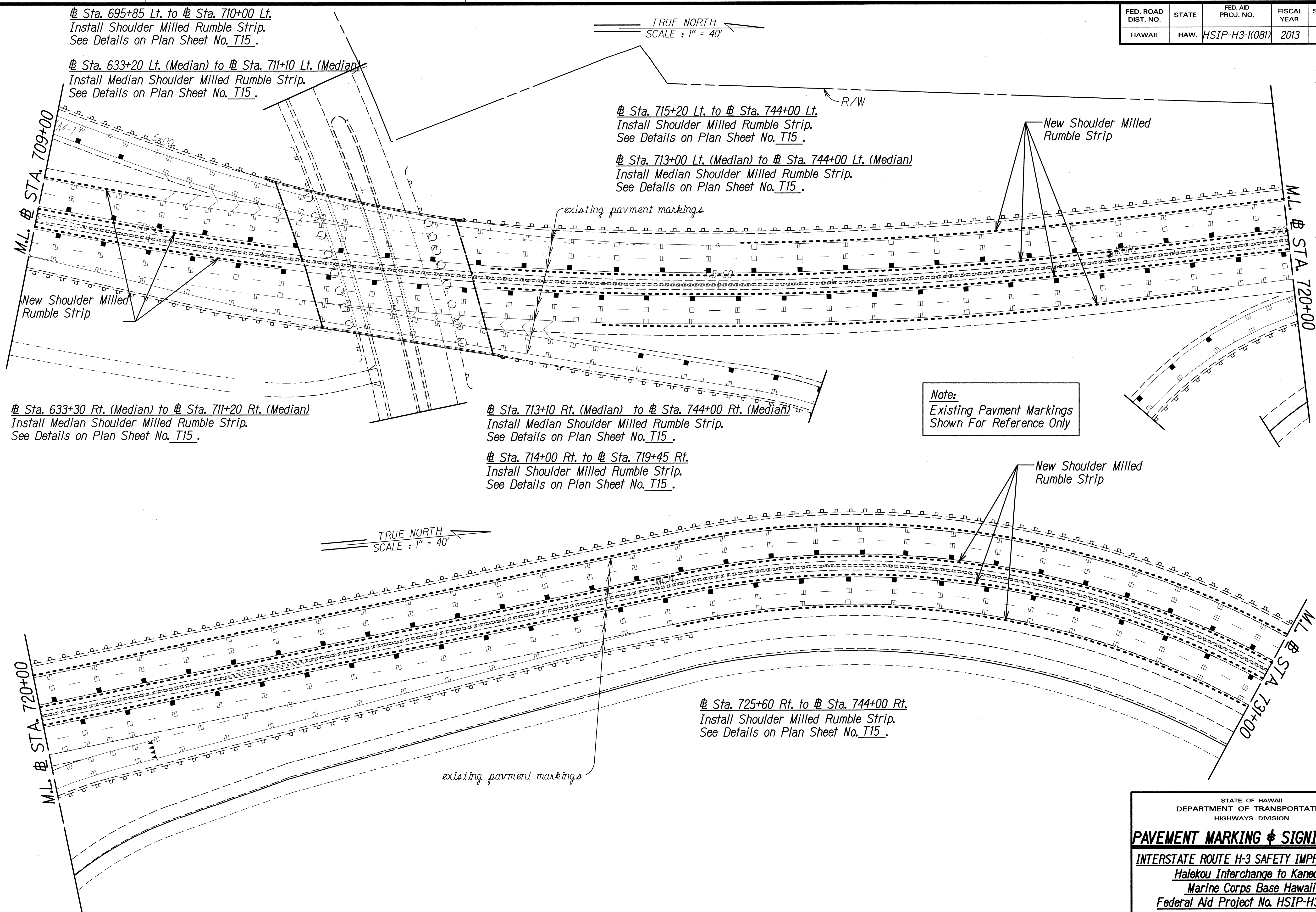
PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H3-1(081)

Scale: 1"=40' Date: June 2013

SHEET No. T12 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	32	36



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

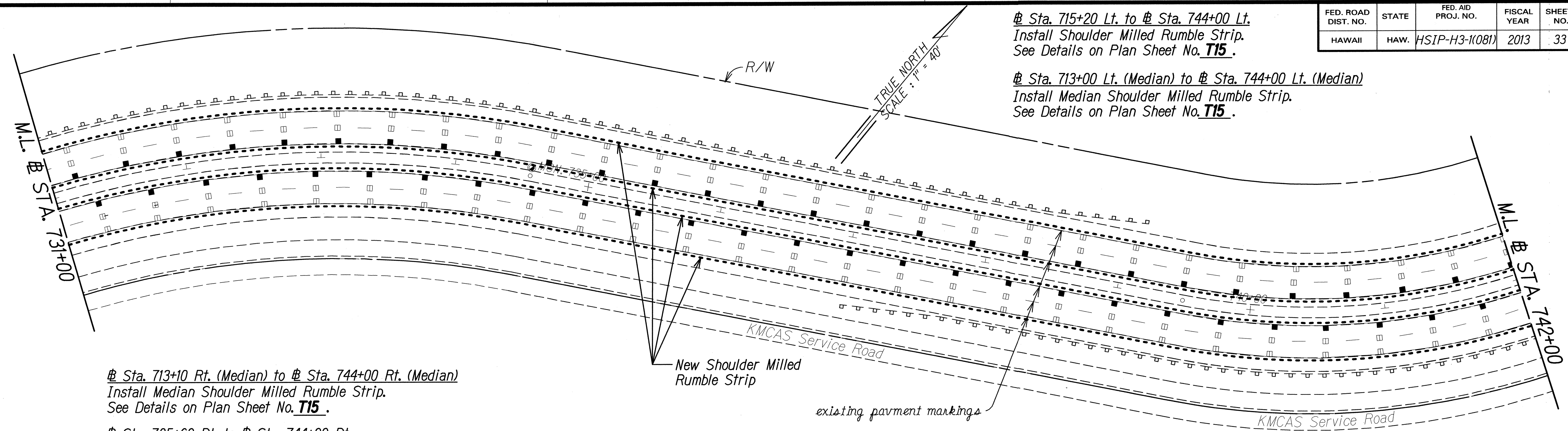
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN
 INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
 Halekou Interchange to Kaneohe
 Marine Corps Base Hawaii
 Federal Aid Project No. HSIP-H3-1(081)

Scale: 1"=40' Date: June 2013

SHEET No. T13 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	33	36



@ Sta. 713+10 Rt. (Median) to @ Sta. 744+00 Rt. (Median)
 Install Median Shoulder Milled Rumble Strip.
 See Details on Plan Sheet No. **T15**.
 @ Sta. 725+60 Rt. to @ Sta. 744+00 Rt.
 Install Shoulder Milled Rumble Strip.
 See Details on Plan Sheet No. **T15**.

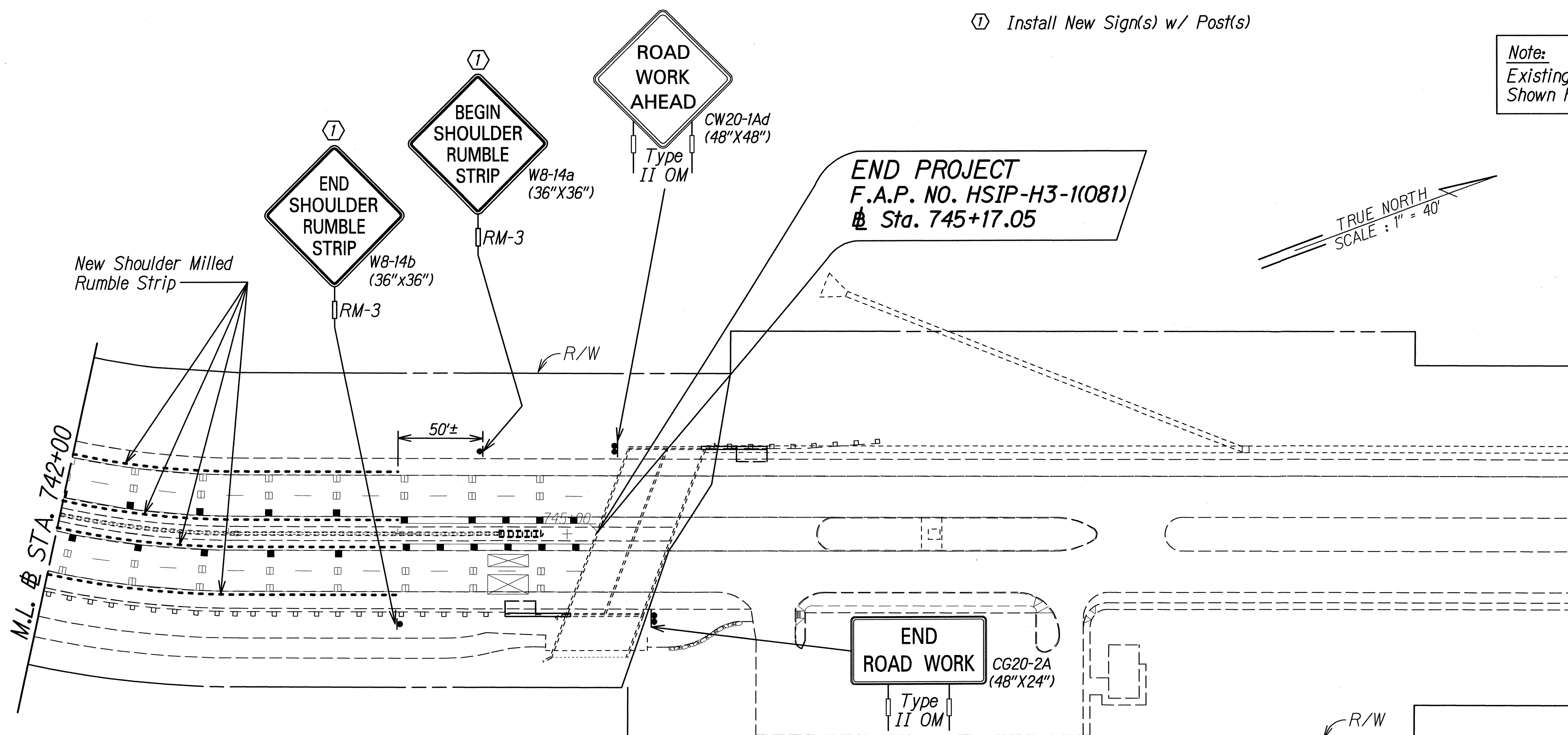
@ Sta. 715+20 Lt. to @ Sta. 744+00 Lt.
 Install Shoulder Milled Rumble Strip.
 See Details on Plan Sheet No. **T15**.

@ Sta. 713+00 Lt. (Median) to @ Sta. 744+00 Lt. (Median)
 Install Median Shoulder Milled Rumble Strip.
 See Details on Plan Sheet No. **T15**.

KEY:

① Install New Sign(s) w/ Post(s)

Note:
 Existing Pavment Markings
 Shown For Reference Only



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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

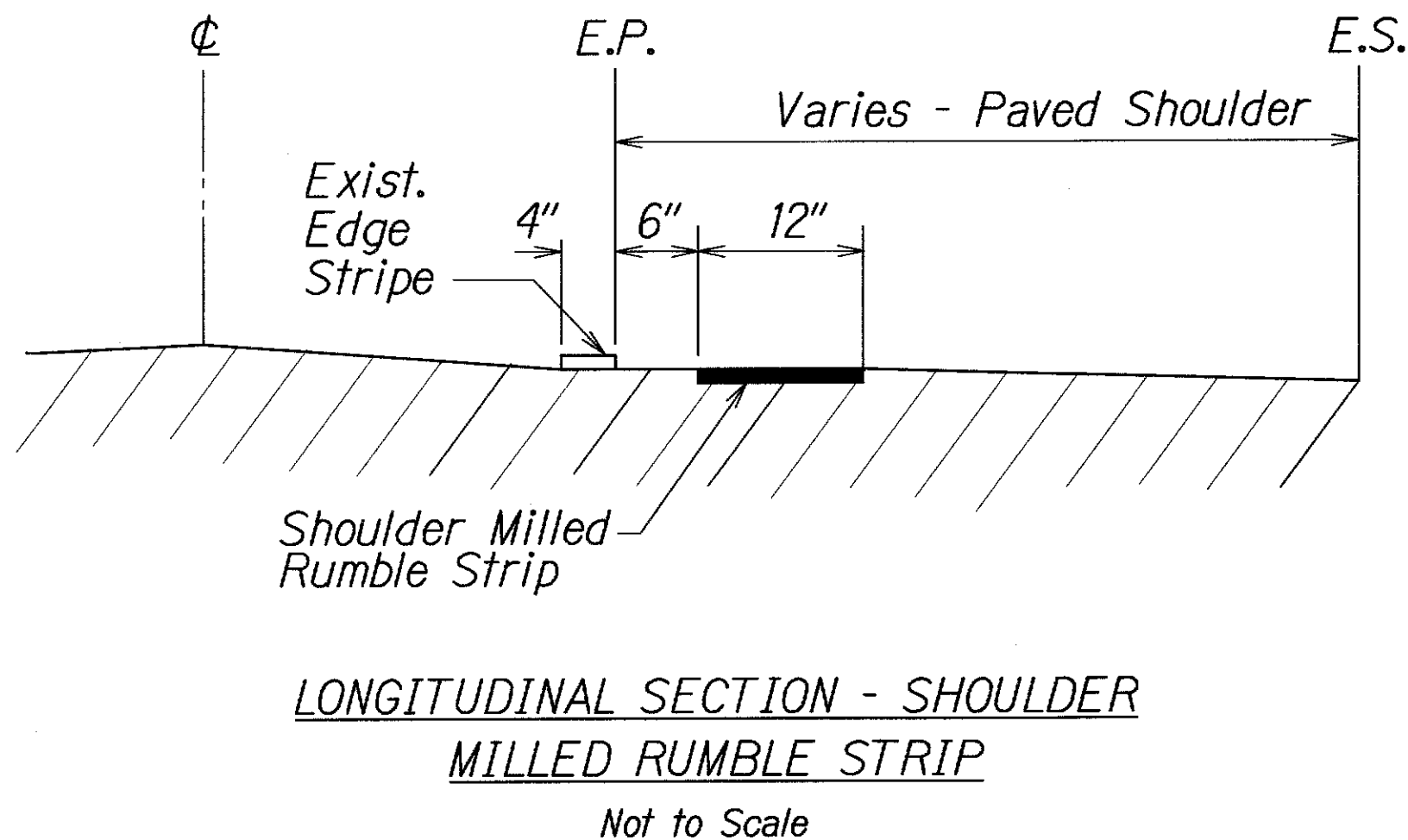
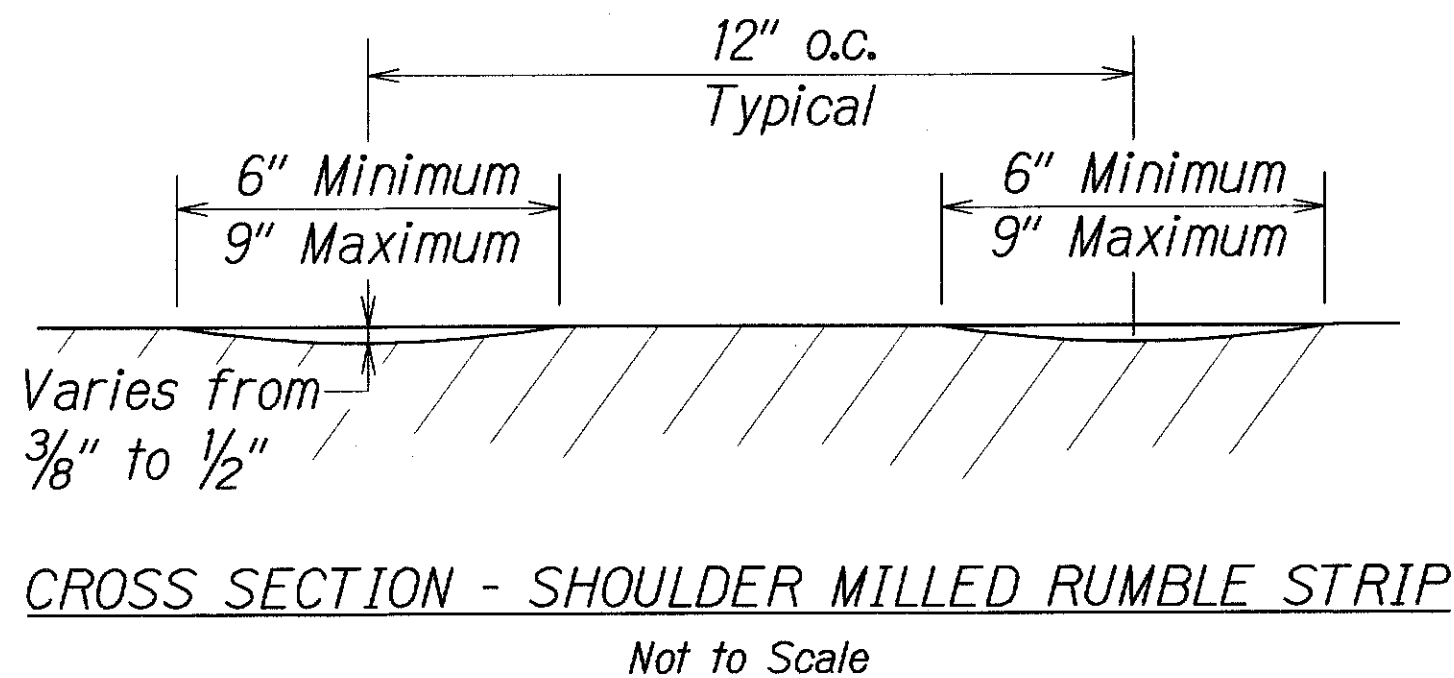
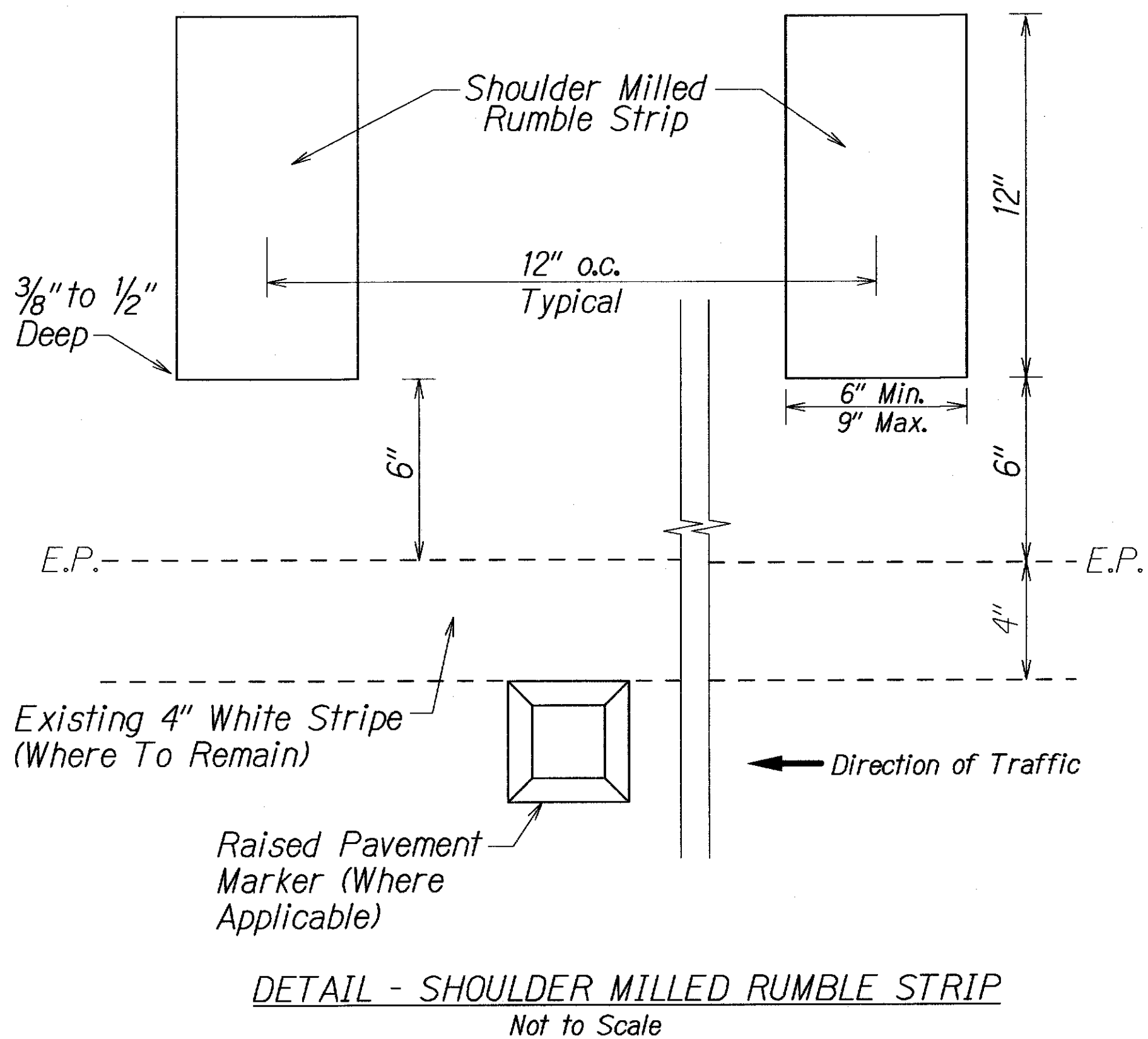
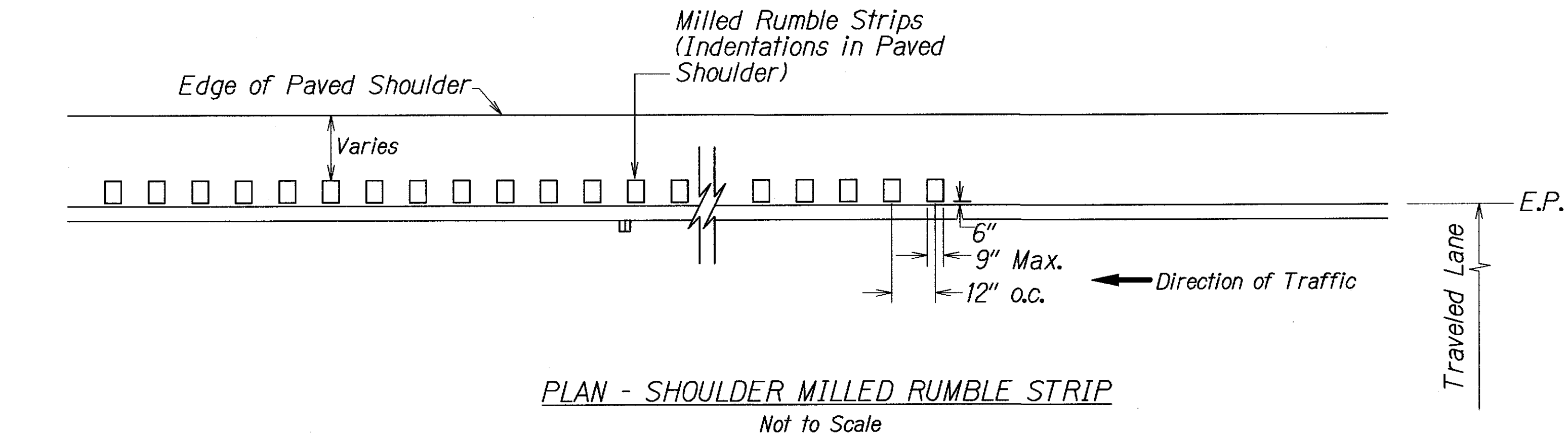
PAVEMENT MARKING & SIGNING PLAN

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
 Halekou Interchange to Kaneohe
 Marine Corps Base Hawaii
 Federal Aid Project No. HSIP-H3-1(081)

Scale: 1"=40' Date: June 2013

SHEET No. **T14** OF **17** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	ADD. 34	36

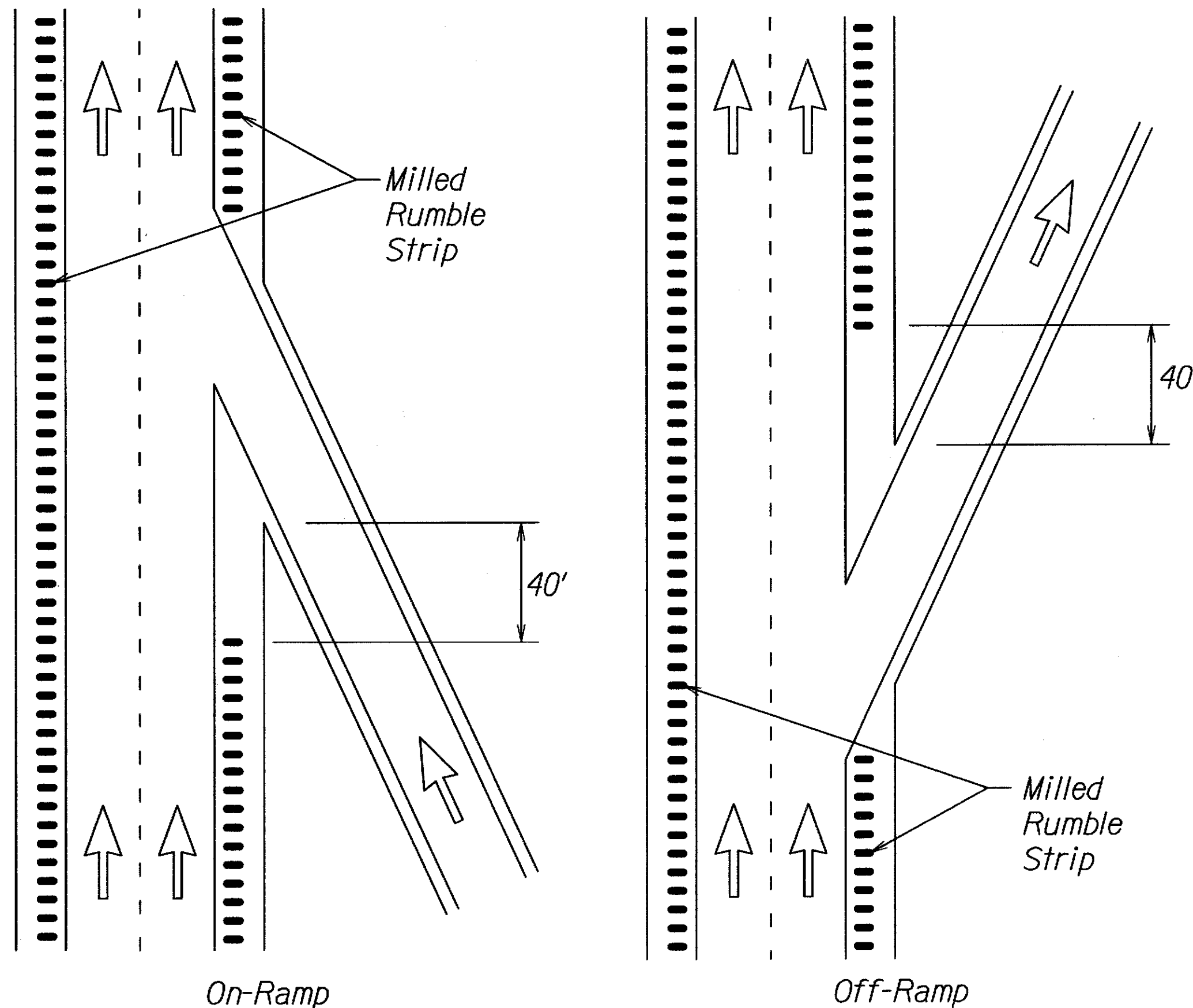


NOTES:

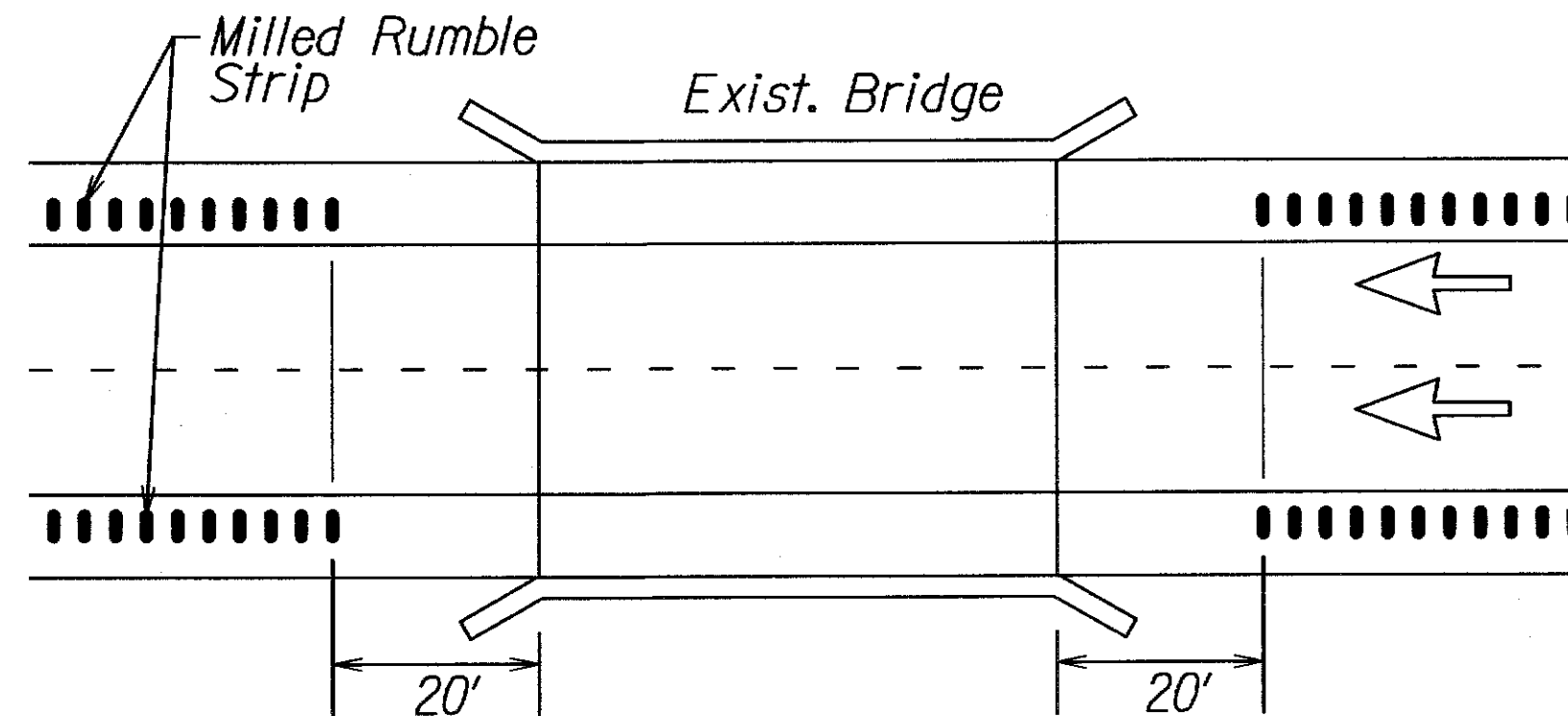
- The method of constructing the shoulder milled rumble strip shall be submitted to the Engineer for acceptance prior to the actual work.
- Dimensions shown are approximate. Adjust rumble strip spacing to coordinate with pavement marking prior to installation.
- Seal cracks within the existing asphalt pavement in both inbound and outbound right shoulders prior to the rumble strip installation. The crack sealing work shall be paid for under Item No. 405.1000 - Crack Seal Slurry.
- The construction of the shoulder milled rumble strip shall be paid for under Item No. 615.0200 - 12-Inch Milled Rumble Strip, Shoulder.
- The milling apparatus and removal of existing pavement markings will not be paid for separately and shall be considered incidental to Item 615.0200 - 12-Inch Milled Rumble Strip, Shoulder.
- Rumble strips shall be installed along all mainline shoulders, except at deceleration and acceleration lanes, as noted on the plans.
- Do not install shoulder milled rumble strips on bridge decks.
- Where at-grade bridges are present, rumble strips shall end/begin 20 L.F. beyond the existing bridge deck joints/concrete approach slab.

11/1/13 Revised Note #3

DATE REVISION



SHOULDER RUMBLE STRIP - BREAK AT RAMP OPENING
Not to Scale



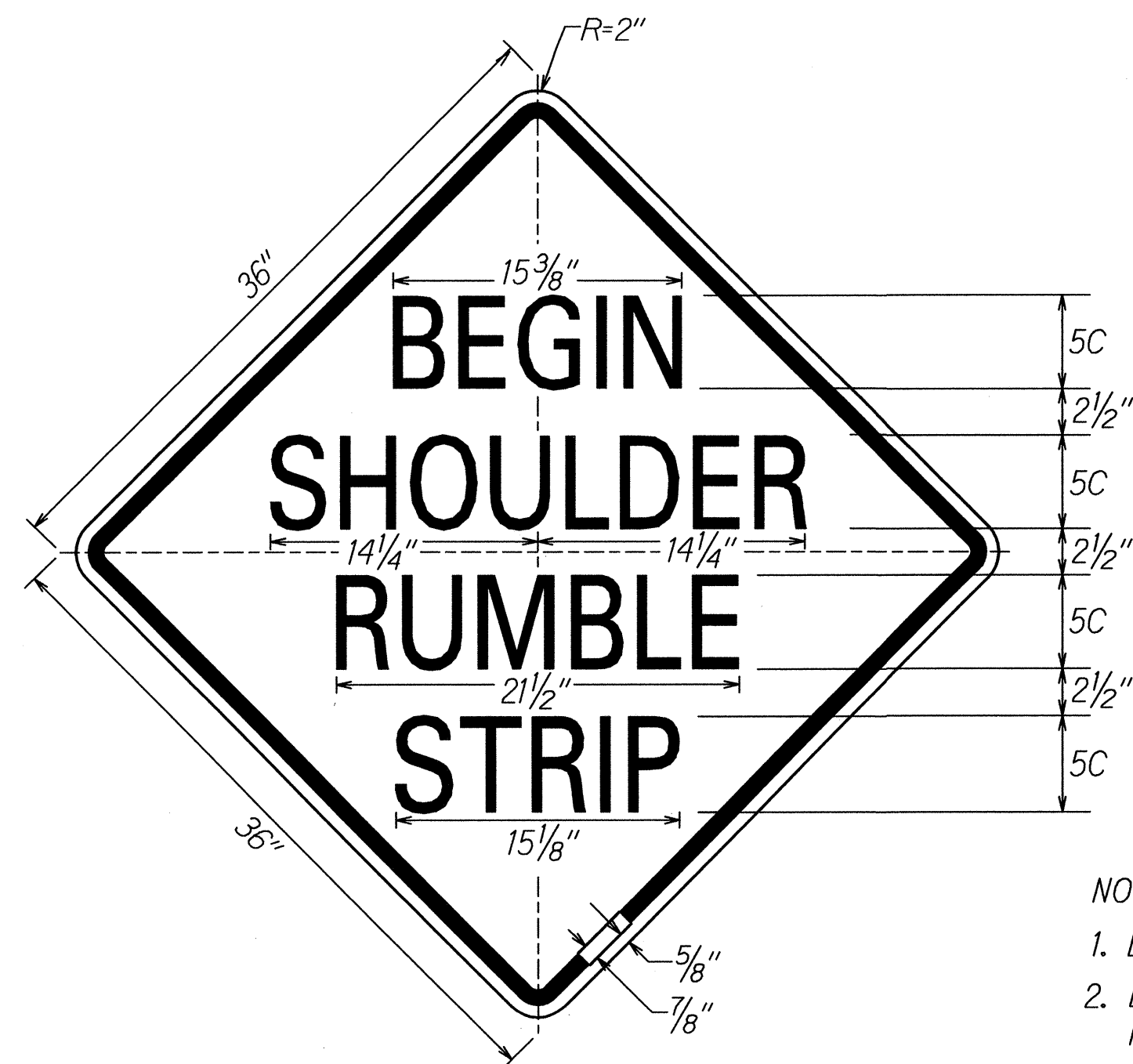
SHOULDER RUMBLE STRIP - BREAK AT BRIDGE
Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

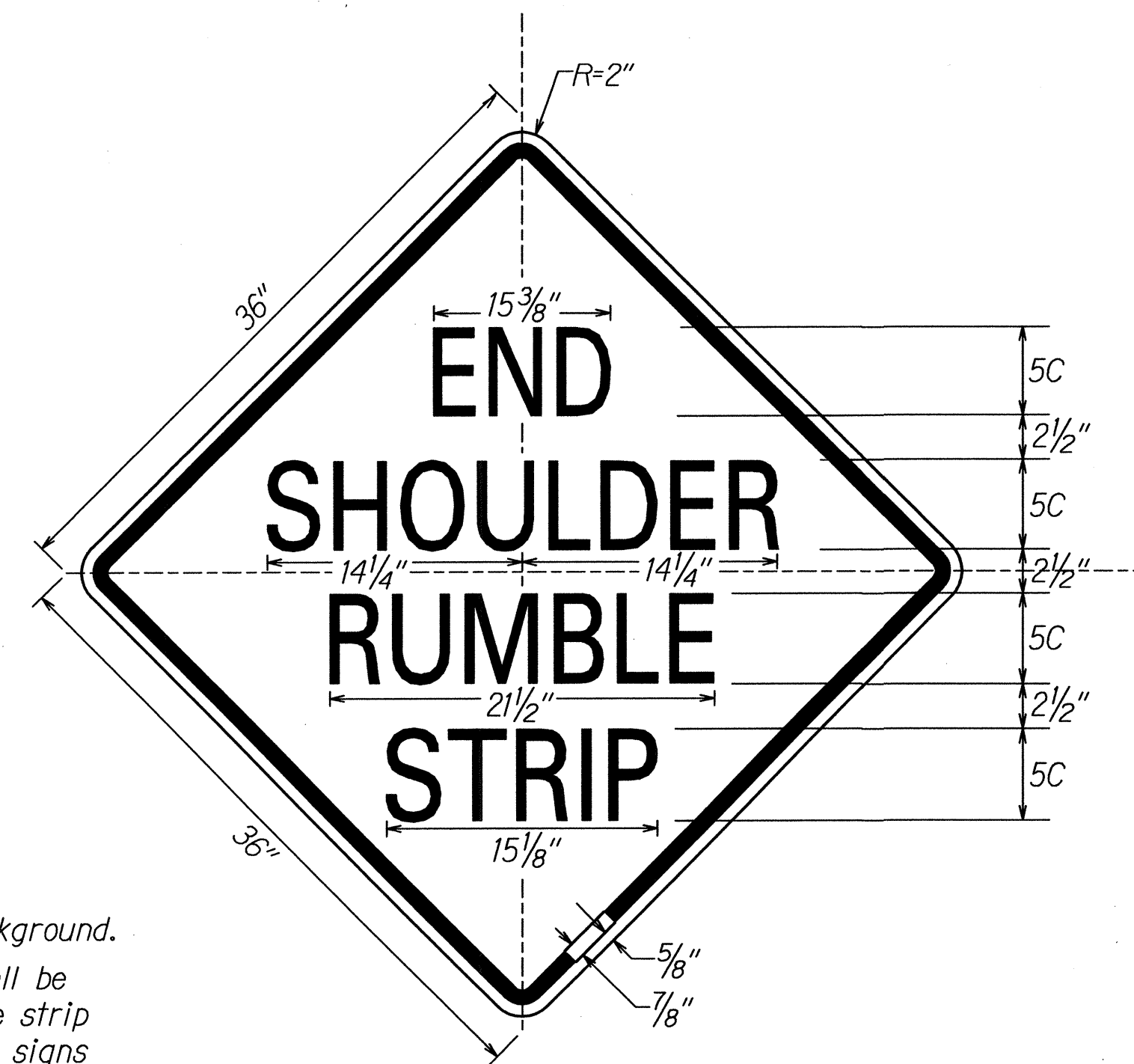
SHOULDER MILLED RUMBLE STRIP
DETAIL FOR FREEWAY
INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H3-1(081)
Scale: As Shown Date: June 2013

SHEET No. 715 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	35	36



W8-14a



W8-14b

NOTE:

1. Black legend on reflectorized yellow background.
2. Begin Shooulder Rumble Strip signs shall be installed 50 feet before the first rumble strip depression. End Shoulder Rumble Strip signs shall be installed 50 feet beyond the last rumble strip depression.

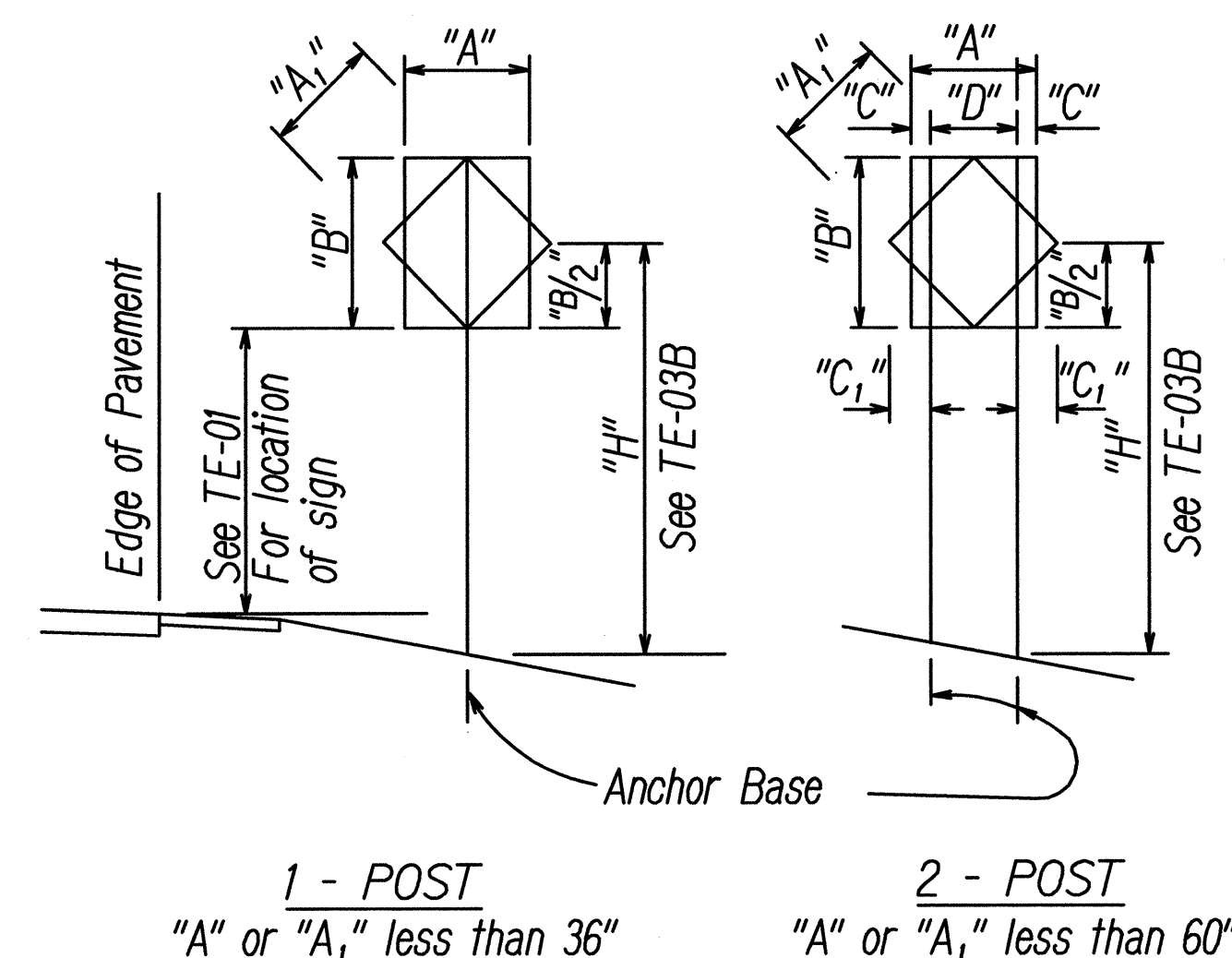
SIGN NOTES

1. All signs shall conform to Section 631 of the 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"
2. Borders, messages, arrows, symbols and shield shall conform to details as shown on the plans and as specified in the MUTCD.
3. Sign messages shall be as indicated on the plan, or as directed by the Engineer.
4. Backing for all new Regulatory and Warning Signs shall not be spliced.
5. Final locations of all signs shall be accepted by the Engineer prior to any installation work.
6. 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.
7. 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.
8. All signs shall be installed on square tube posts, unless otherwise noted.
9. Each sign post shall have a RM-3 Reflector Marker. Installation of RM-3 shall be considered incidental to sign items.
10. Contractor shall mark the back of all signs using labels provided by the State. Payment to be incidental to various contract items.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	CHECKED BY	
QUANTITIES BY		
6/13/2013		

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
SHOULDER RUMBLE STRIP SIGN DETAILS AND NOTES
INTERSTATE ROUTE H3 SAFETY IMPROVEMENTS Halekou Interchange to Kaneohe Marine Corps Base Hawaii Federal Aid Project No. HSIP-H3-1(081)
Not to Scale Date: June 2013
SHEET No. 716 OF 17 SHEETS

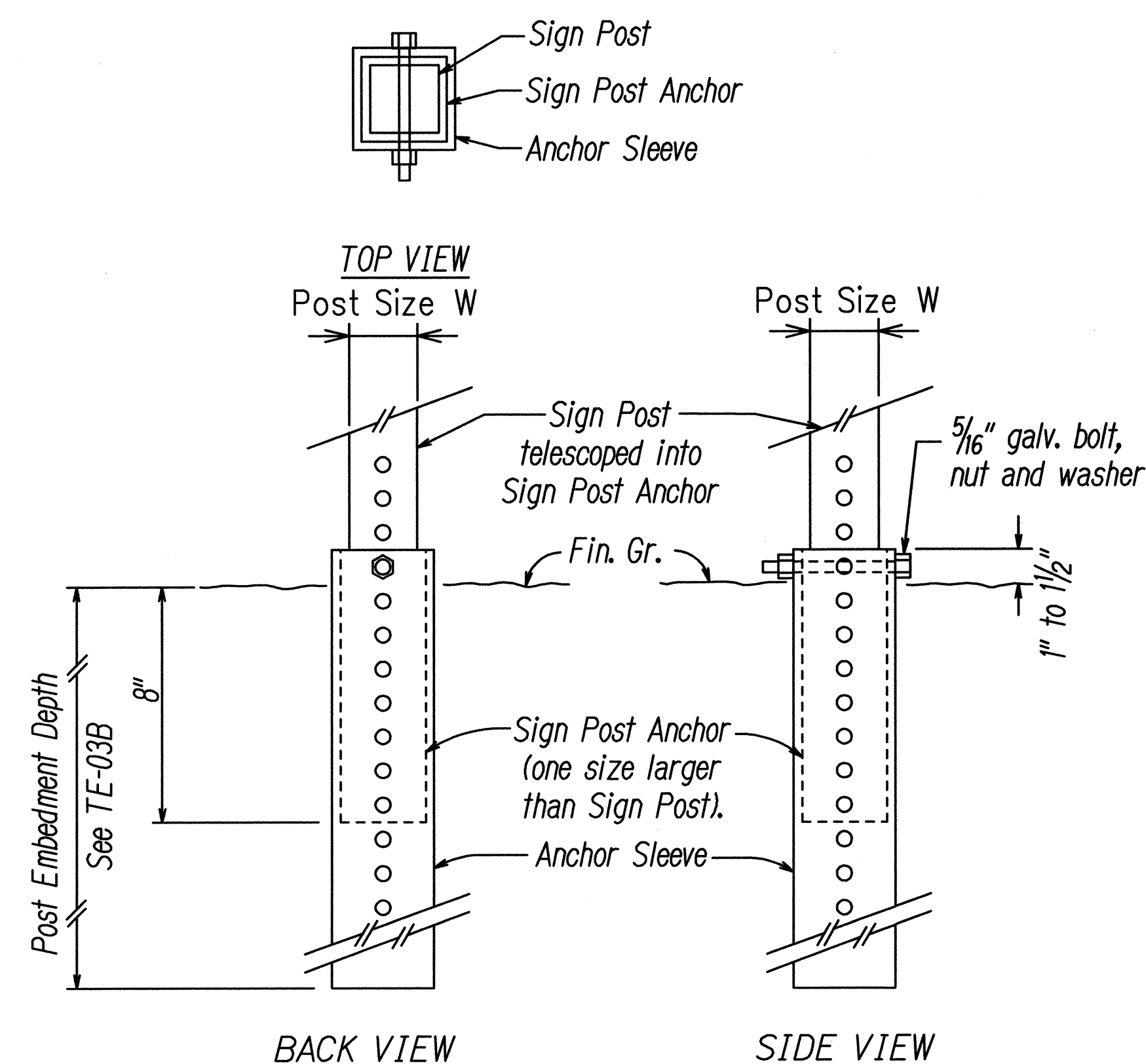
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-H3-1(081)	2013	36	36



"A" or "A ₁ "	"C"	"C ₁ "
Less than 36"	6"	-
Greater than 36" and less than 48"	9"	19"
Greater than 48"	12"	24"

NOTE: Frame stiffeners are required when D is greater than 24"
See General Notes.

TYPICAL INSTALLATION



SIGN POST INSTALLATION

ANCHOR BASE DETAIL

GENERAL NOTES

- Design Specifications:**
 - Design shall conform w/ the latest AASHTO Standard Specifications for the Structural Supports for Highway Signs, Luminaires & Traffic Signals and its interim supplements and modifications by the Highways Division, Department of Transportation State of Hawaii.
 - Latest HDOT Memorandum with subject title "Design Criteria for Bridges and Structures."
- Loads:**
 - Basic Wind Speed: 105 mph.
 - Recurrence Interval of 10 years.
- Materials:**
 - Post shall conform to the Standard Specifications.
 - All connection bolts shall be AASHTO M164 bolts and anchor bolts shall be AASHTO M314-105 bolt.
 - Lap splice nuts and bolts shall be M180, with an ultimate tensile strength of 180 ksi, min.
 - Aluminum members and surfaces in contact with structural steel shall be isolated with neoprene material as approved by the Engineer.
- General:**
 - See General Notes on B-01, TE-01, and TE-03B for additional information.
 - All posts shall be 12 gage unless otherwise specified or shown on the plans.
 - Square tube posts shall be perforated with 7/16" ϕ holes, 1" o.c., 4 sides, along entire length of post.
 - All accessories, fittings and stiffener details (as required) shall be submitted to the Engineer for approval 20 days prior to installation.
 - Alternate designs in accordance with the plans and specifications shall use the Service Load Design Method and shall be stamped by a registered structural engineer of the State of Hawaii and submitted to the Engineer for approval.
 - All sign support posts shall be outside of the clear zone or shielded by an appropriate traffic barrier system. The traffic barrier system shall be submitted to the Engineer for his approval.
 - The Contractor shall use templates while installing the anchor bolts. Anchor bolts shall be vertical.
 - Excavation and backfill shall be considered incidental to the cost of the sign foundation.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
6/11/2013	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**GALVANIZED SQUARE TUBE
SIGN POST MOUNTING**

INTERSTATE ROUTE H-3 SAFETY IMPROVEMENTS
Halekou Interchange to Kaneohe
Marine Corps Base Hawaii
Federal Aid Project No. HSIP-H3-1(081)

Not To Scale Date: June 2013

SHEET No. 117 OF 17 SHEETS