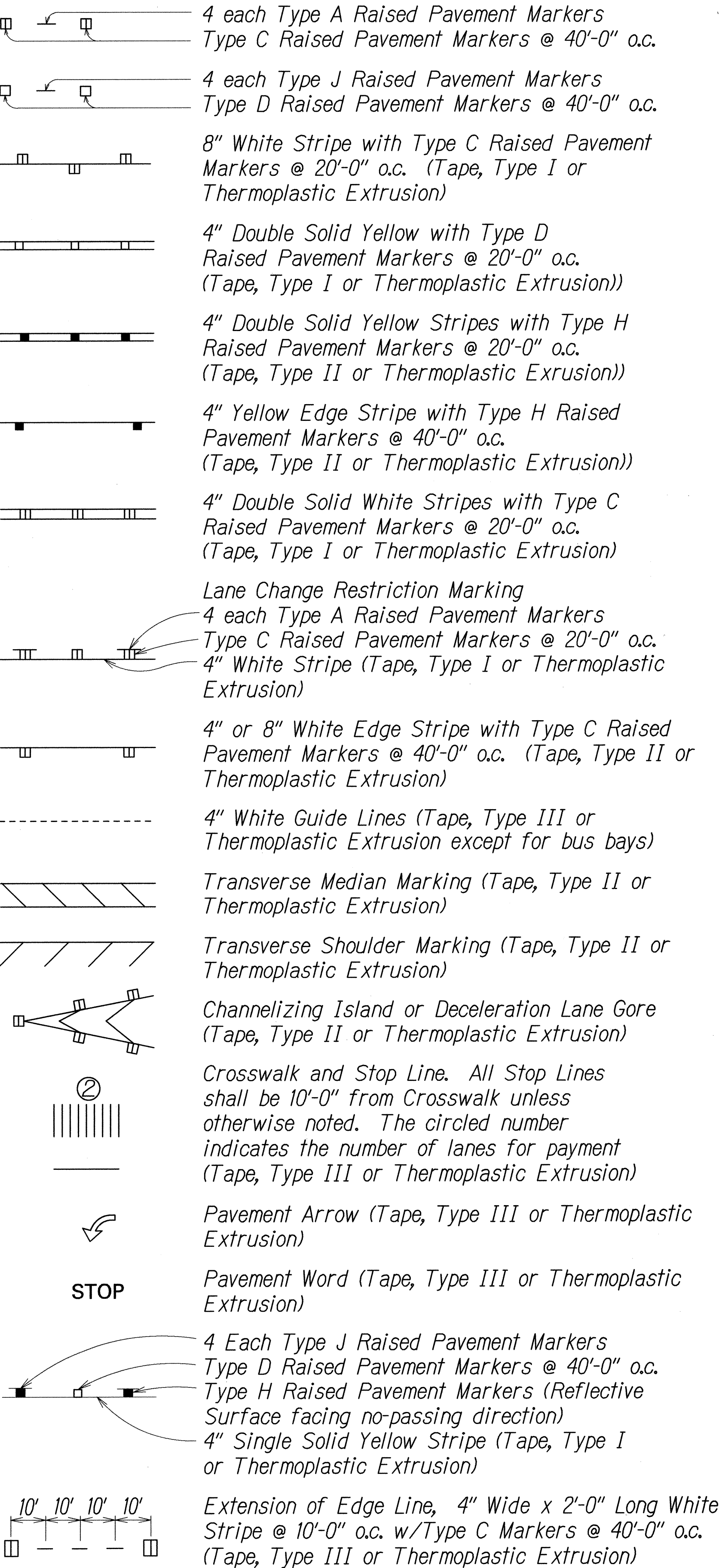


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	34	50

LEGEND

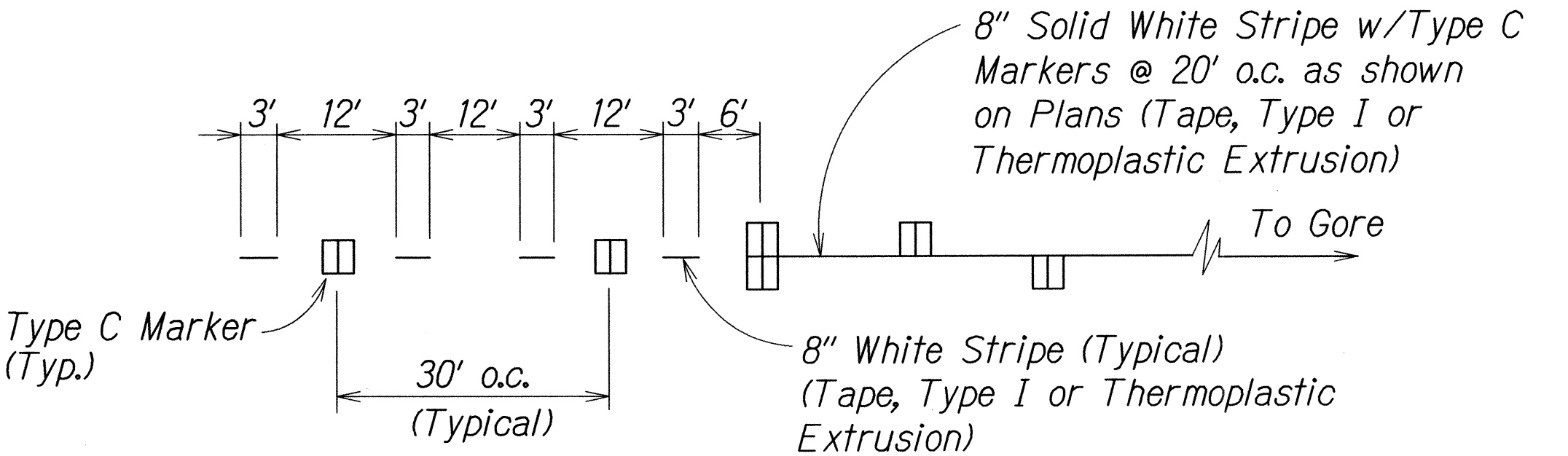
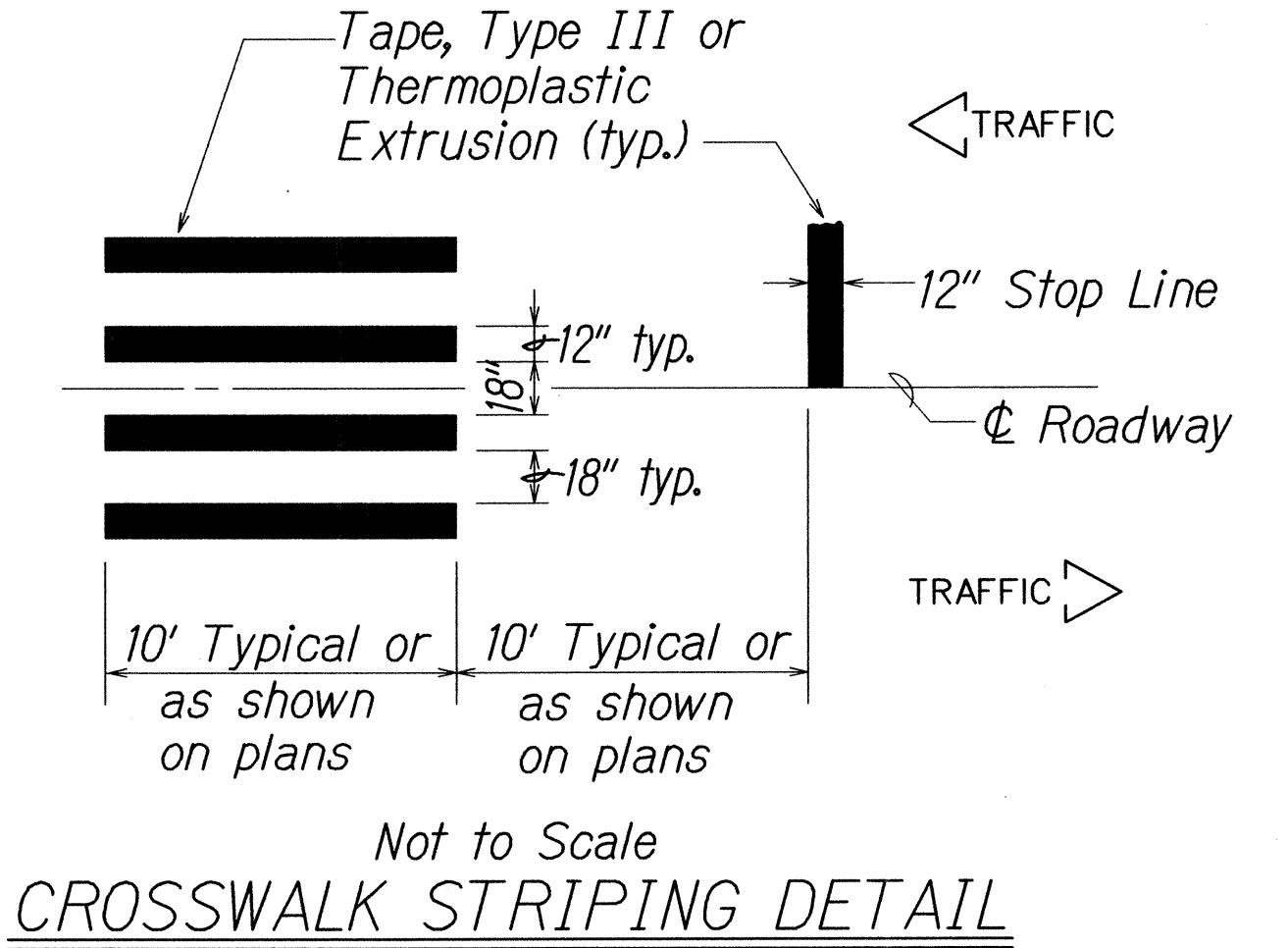
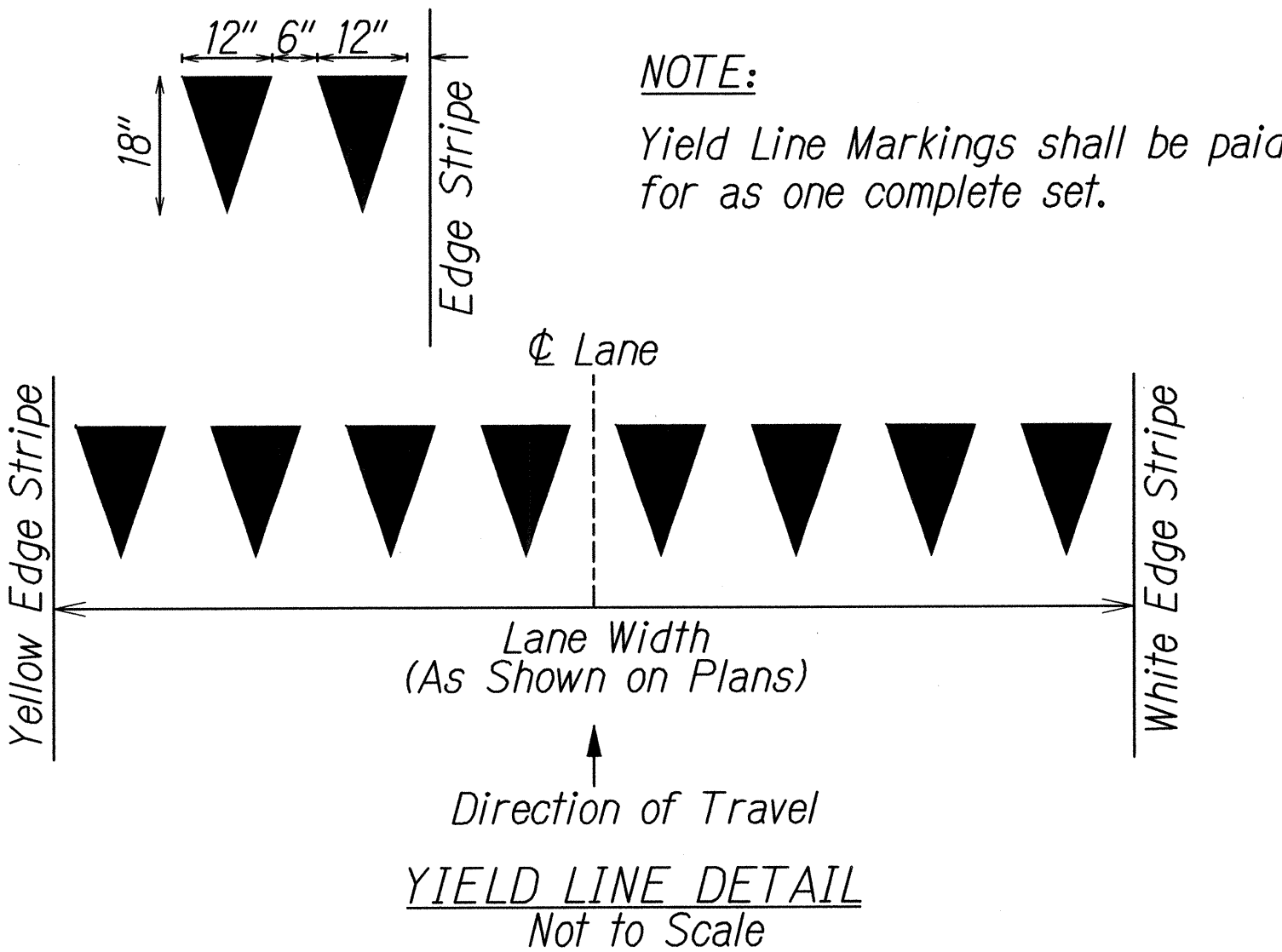


NOTES

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- 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.
- Raised pavement markers shall not be installed within crosswalks.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- 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.
- Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- All pavement striping shall be as noted on the legend or plans.
- 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.
- All pedestrian warning signs with supplemental sign shall be on a fluorescent yellow-green retroreflective background with a black legend and border.

LEGEND:

- SW Reflector Marker (RM-2, White) w/ steel post
- FW Reflector Marker (RM-2, White) w/ flexible post



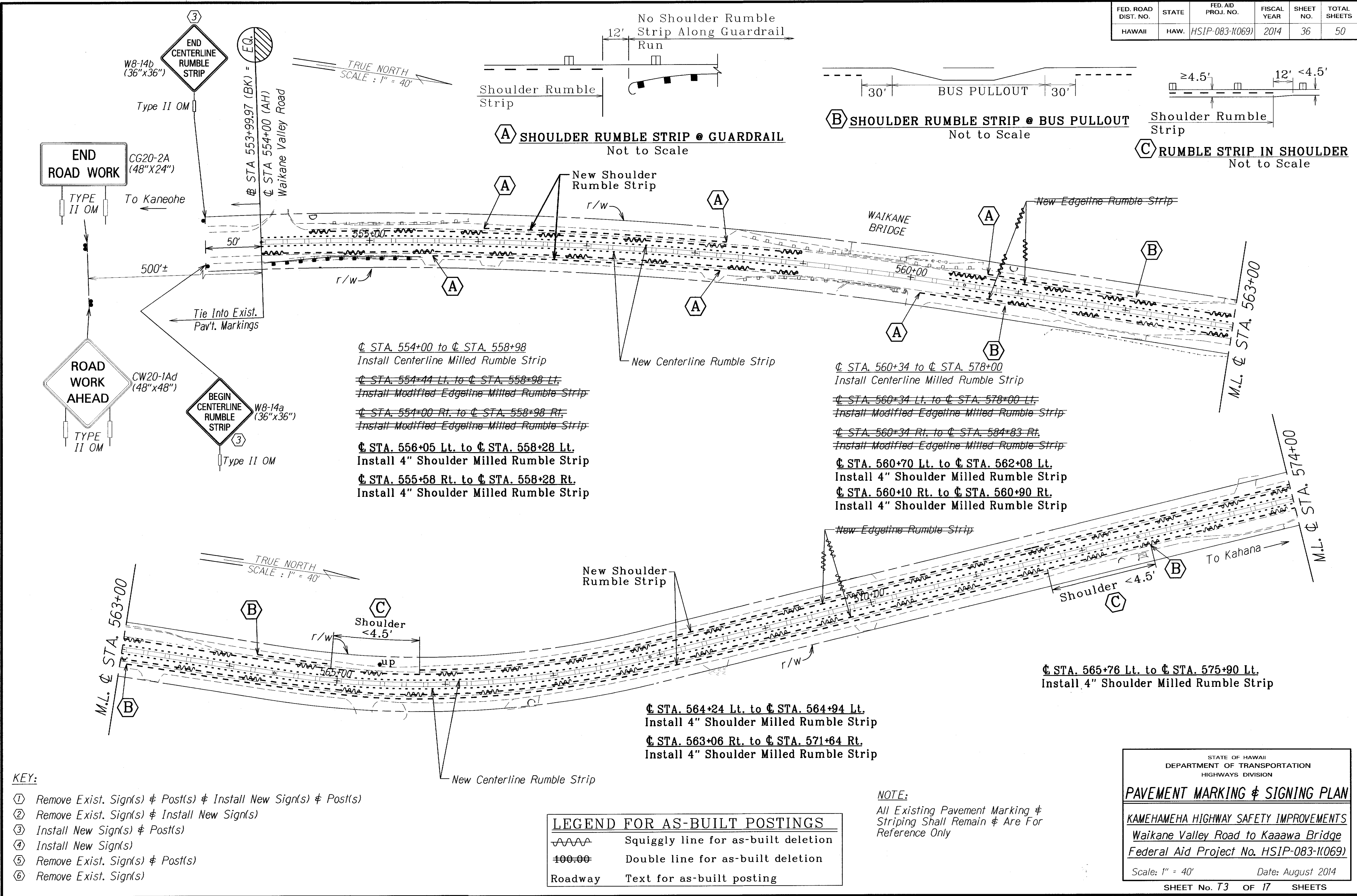
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING
LEGEND, DETAILS & NOTES**

KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-1(069)
Scale: As Shown Date: August 2014

SHEET No. 71 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	36	50



- KEY:
- ① Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ② Remove Exist. Sign(s) & Install New Sign(s)
 - ③ Install New Sign(s) & Post(s)
 - ④ Install New Sign(s)
 - ⑤ Remove Exist. Sign(s) & Post(s)
 - ⑥ Remove Exist. Sign(s)

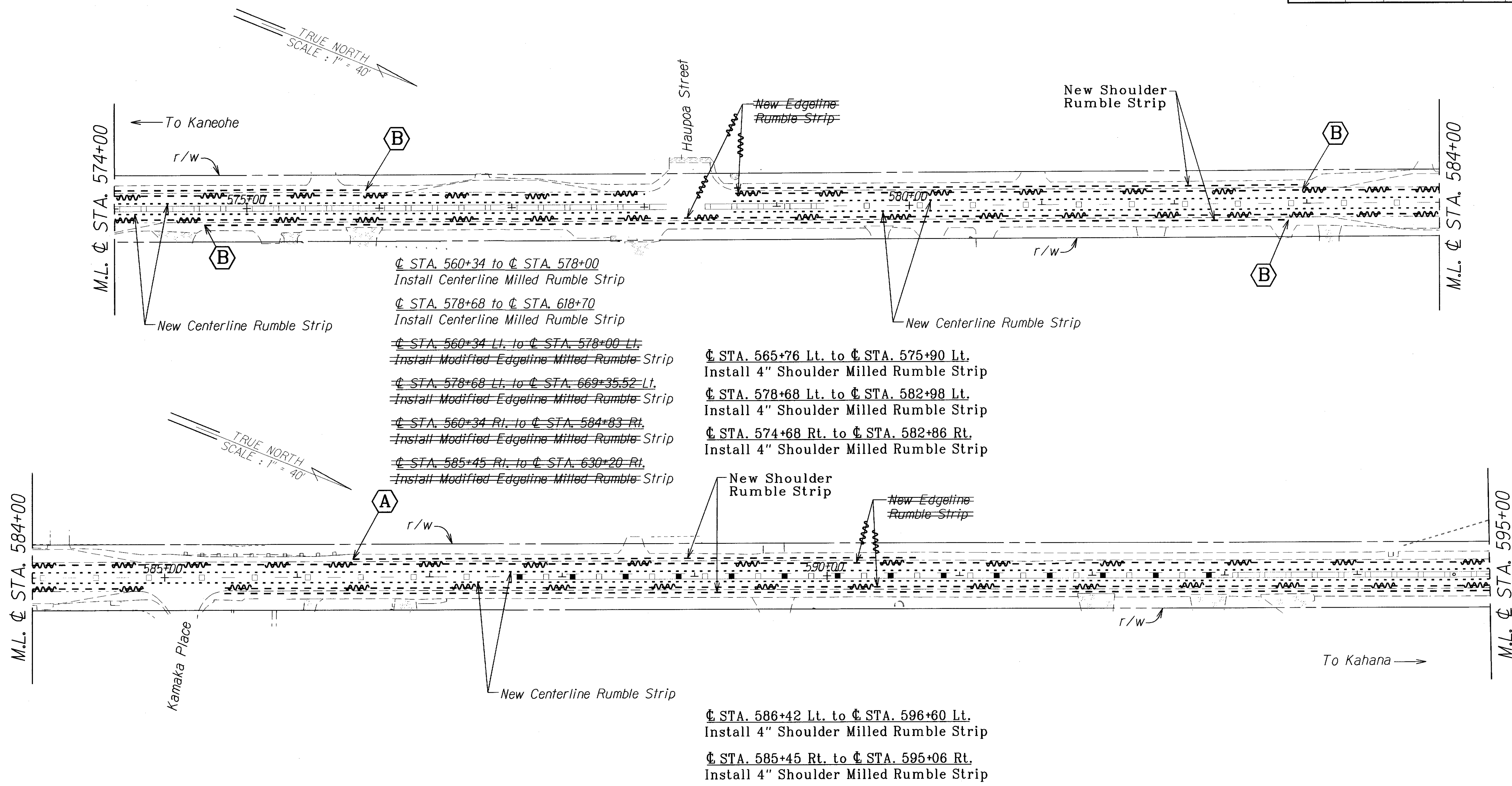
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

NOTE:
All Existing Pavement Marking & Striping Shall Remain & Are For Reference Only

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN
KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-1(069)
Scale: 1" = 40' Date: August 2014
SHEET No. 73 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1069	2014	37	50



KEY:

- ① Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ② Remove Exist. Sign(s) & Install New Sign(s)
- ③ Install New Sign(s) & Post(s)
- ④ Install New Sign(s)
- ⑤ Remove Exist. Sign(s) & Post(s)
- ⑥ Remove Exist. Sign(s)

For details on rumble strips see Plan Sheet No. 36.

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

NOTE:

All Existing Pavement Marking & Striping Shall Remain & Are For Reference Only

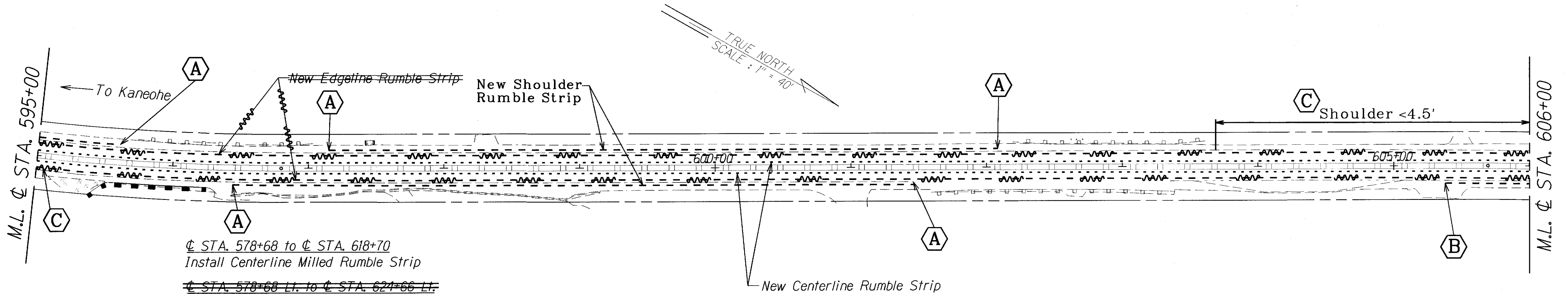
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-1069

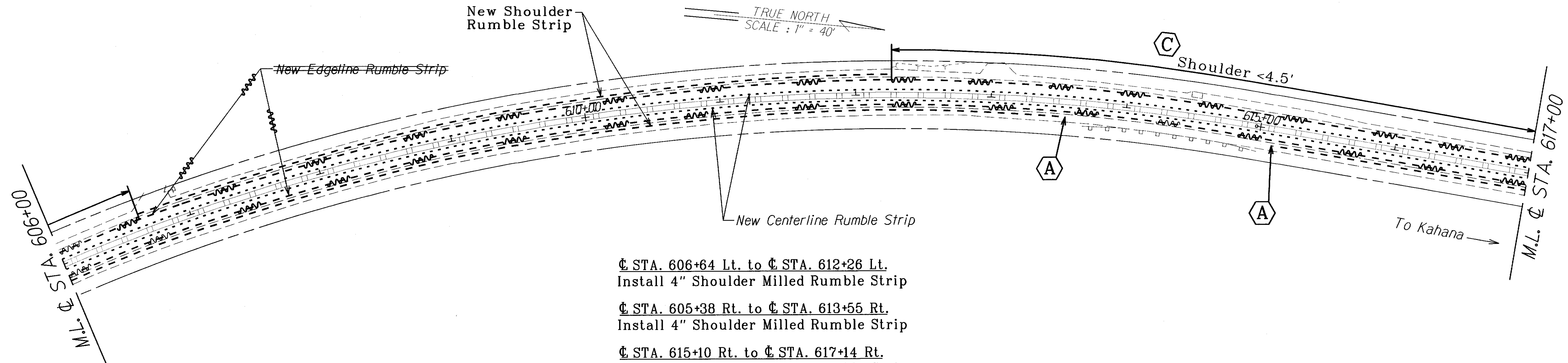
Scale: 1" = 40' Date: August 2014
SHEET No. 74 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-11069	2014	38	50



☐ STA. 578+68 to ☐ STA. 618+70
 Install Centerline Milled Rumble Strip
~~☐ STA. 578+68 Lt. to ☐ STA. 624+66 Lt.~~
~~Install Modified Edgeline Milled Rumble Strip~~
~~☐ STA. 585+45 Rt. to ☐ STA. 624+66 Rt.~~
~~Install Modified Edgeline Milled Rumble Strip~~

☐ STA. 586+42 Lt. to ☐ STA. 596+60 Lt.
 Install 4" Shoulder Milled Rumble Strip
 ☐ STA. 597+15 Lt. to ☐ STA. 602+08 Lt.
 Install 4" Shoulder Milled Rumble Strip
 ☐ STA. 596+44 Rt. to ☐ STA. 601+46 Rt.
 Install 4" Shoulder Milled Rumble Strip



☐ STA. 606+64 Lt. to ☐ STA. 612+26 Lt.
 Install 4" Shoulder Milled Rumble Strip
 ☐ STA. 605+38 Rt. to ☐ STA. 613+55 Rt.
 Install 4" Shoulder Milled Rumble Strip
 ☐ STA. 615+10 Rt. to ☐ STA. 617+14 Rt.
 Install 4" Shoulder Milled Rumble Strip

- KEY:**
- ① Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ② Remove Exist. Sign(s) & Install New Sign(s)
 - ③ Install New Sign(s) & Post(s)
 - ④ Install New Sign(s)
 - ⑤ Remove Exist. Sign(s) & Post(s)
 - ⑥ Remove Exist. Sign(s)

For details on rumble strips see Plan Sheet No. 36.

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

NOTE:
 All Existing Pavement Marking & Striping Shall Remain & Are For Reference Only

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS

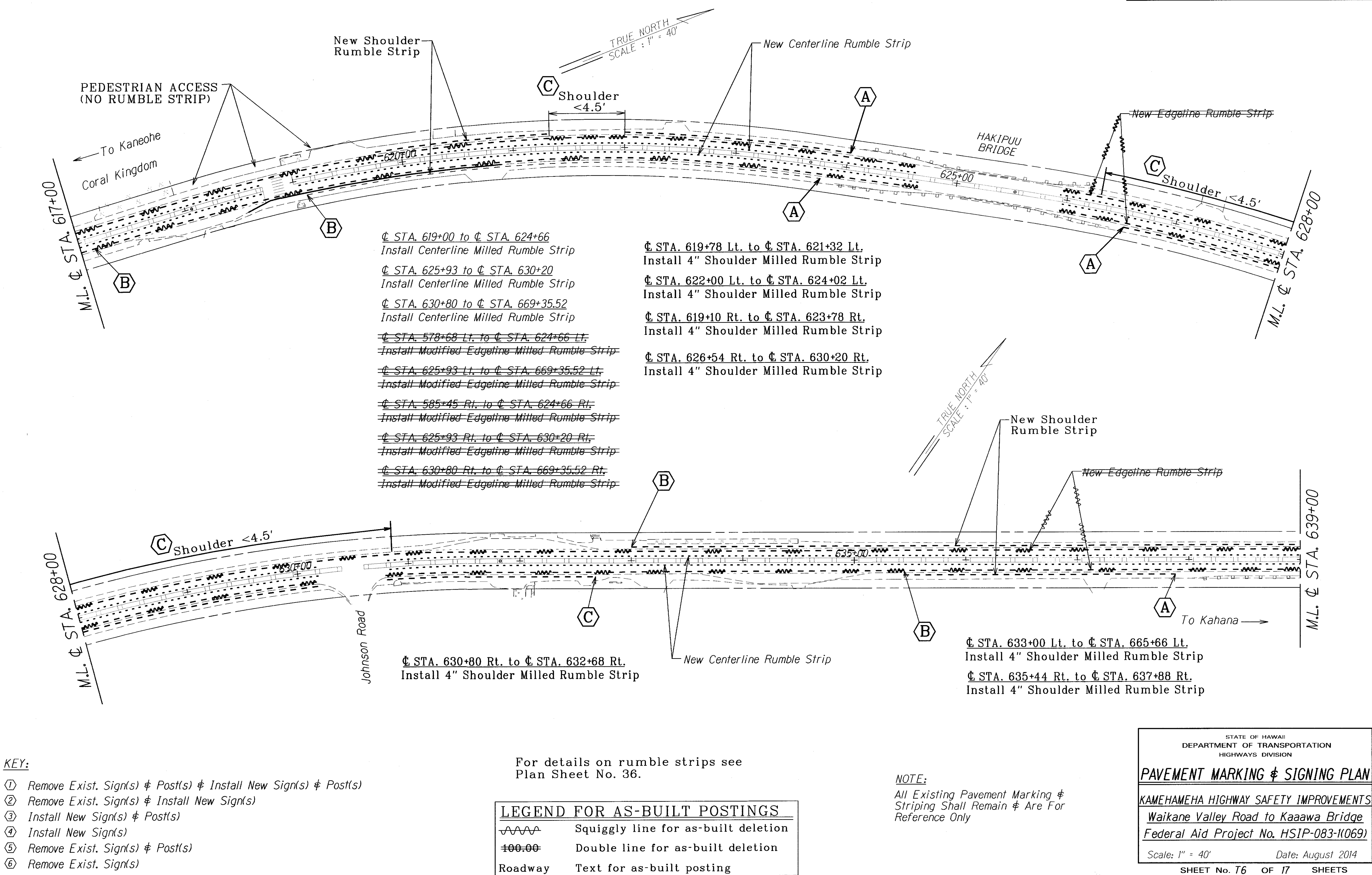
Waikane Valley Road to Kaaawa Bridge

Federal Aid Project No. HSIP-083-11069

Scale: 1" = 40' Date: August 2014

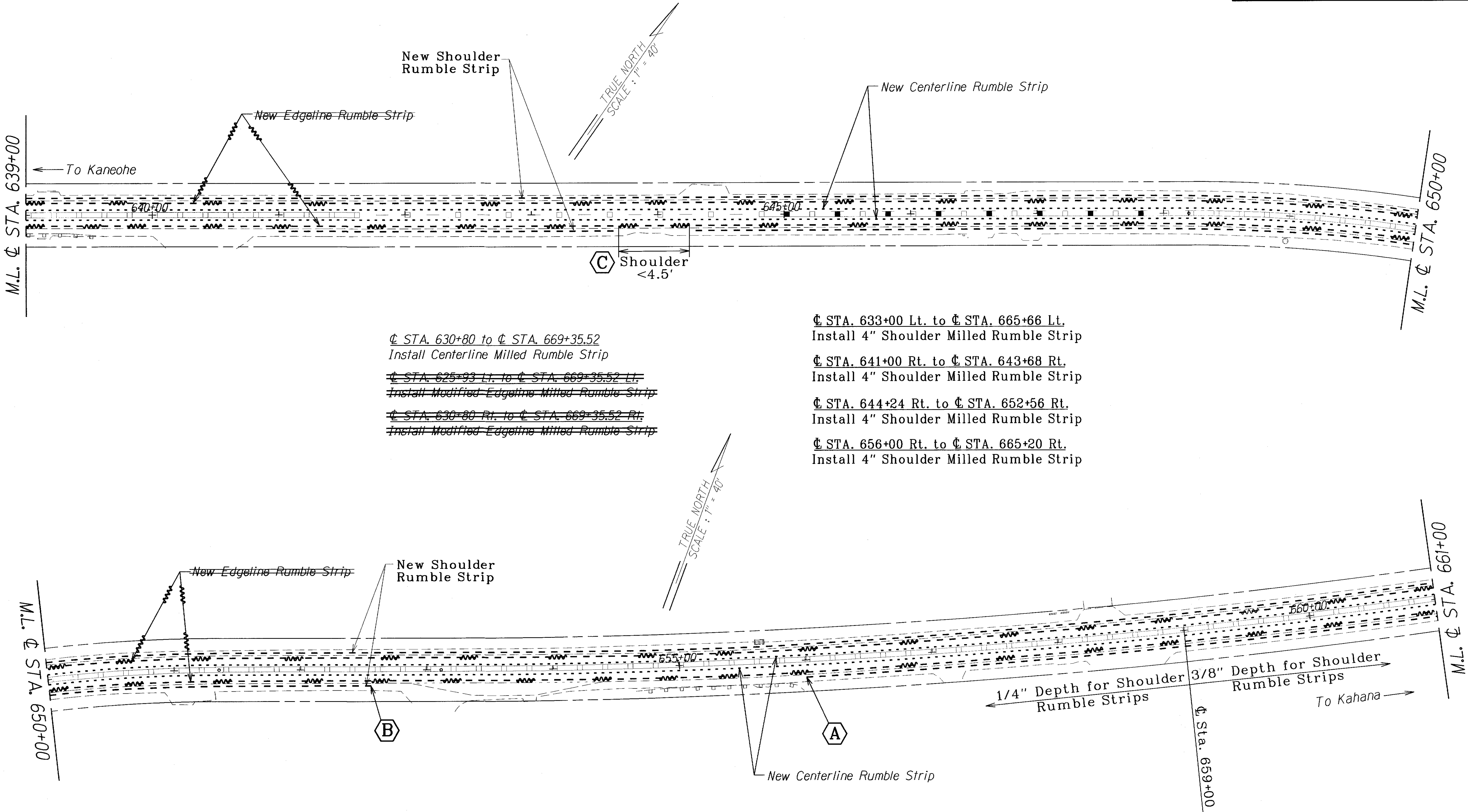
SHEET No. 75 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	39	50



"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-11069	2014	40	50



KEY:

- ① Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ② Remove Exist. Sign(s) & Install New Sign(s)
- ③ Install New Sign(s) & Post(s)
- ④ Install New Sign(s)
- ⑤ Remove Exist. Sign(s) & Post(s)
- ⑥ Remove Exist. Sign(s)

For details on rumble strips see
Plan Sheet No. 36.

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

NOTE:

All Existing Pavement Marking &
Striping Shall Remain & Are For
Reference Only

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS

Waikane Valley Road to Kaaawa Bridge

Federal Aid Project No. HSIP-083-11069

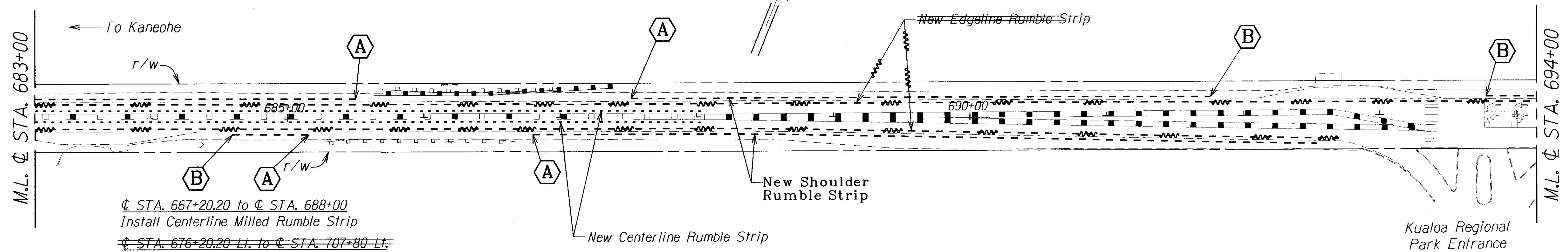
Scale: 1" = 40' Date: August 2014

SHEET No. 17 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	42	50

C STA. 679+32 Lt. to C STA. 685+50 Lt.
 Install 4" Shoulder Milled Rumble Strip
 C STA. 684+60 Rt. to C STA. 685+16 Rt.
 Install 4" Shoulder Milled Rumble Strip

C STA. 687+52 Lt. to C STA. 691+76 Lt.
 Install 4" Shoulder Milled Rumble Strip
 C STA. 686+80 Rt. to C STA. 692+54 Rt.
 Install 4" Shoulder Milled Rumble Strip



C STA. 667+20.20 to C STA. 688+00
 Install Centerline Milled Rumble Strip
~~C STA. 676+20.20 Lt. to C STA. 707+80 Lt.~~
~~Install Modified Edgeline Milled Rumble Strip~~
~~C STA. 691+60 Rt. to C STA. 801+25.17 Rt.~~
~~Install Modified Edgeline Milled Rumble Strip~~
 C STA. 696+20 TO C STA. 707+90
 Install Centerline Milled Rumble Strip

For details on rumble strips see Plan Sheet No. 36.

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

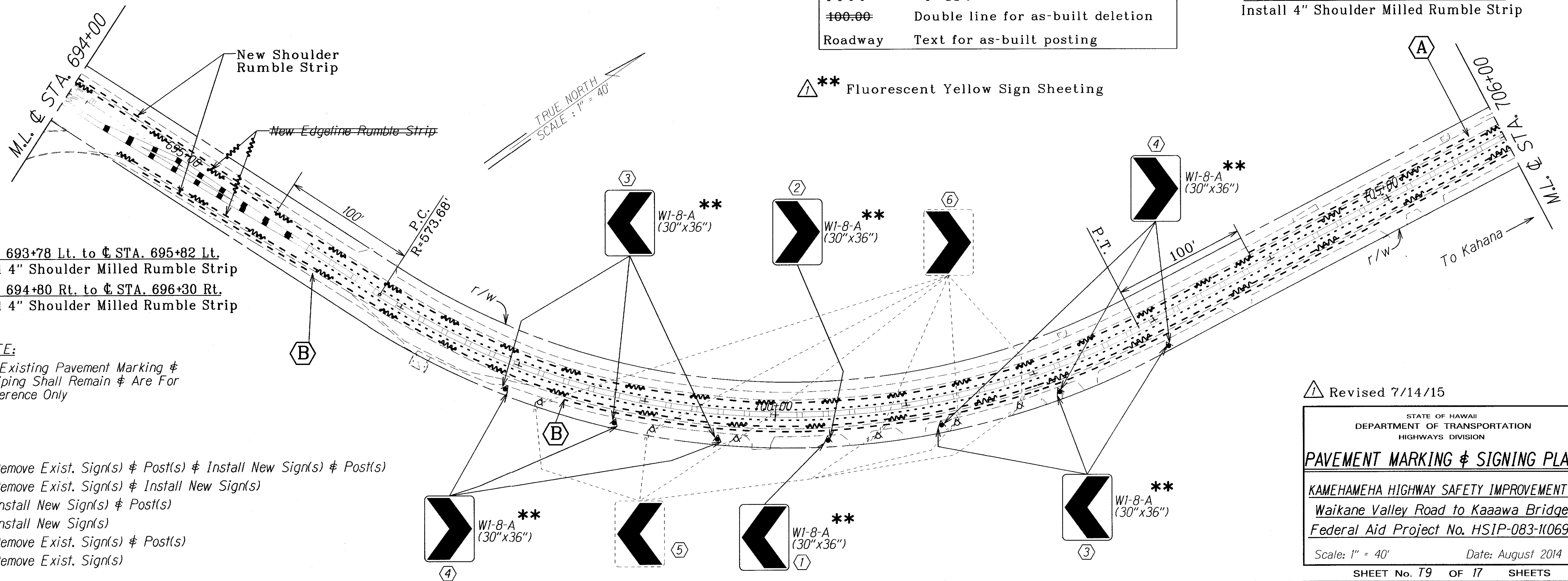
C STA. 703+86 Lt. to C STA. 705+76 Lt.
 Install 4" Shoulder Milled Rumble Strip
 C STA. 698+42 Rt. to C STA. 709+00 Rt.
 Install 4" Shoulder Milled Rumble Strip

C STA. 693+78 Lt. to C STA. 695+82 Lt.
 Install 4" Shoulder Milled Rumble Strip
 C STA. 694+80 Rt. to C STA. 696+30 Rt.
 Install 4" Shoulder Milled Rumble Strip

NOTE:
 All Existing Pavement Marking & Striping Shall Remain & Are For Reference Only

- KEY:**
- ① Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
 - ② Remove Exist. Sign(s) & Install New Sign(s)
 - ③ Install New Sign(s) & Post(s)
 - ④ Install New Sign(s)
 - ⑤ Remove Exist. Sign(s) & Post(s)
 - ⑥ Remove Exist. Sign(s)

** Fluorescent Yellow Sign Sheeting



Revised 7/14/15

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
 Waikane Valley Road to Kaaawa Bridge
 Federal Aid Project No. HSIP-083-1(069)

Scale: 1" = 40' Date: August 2014

SHEET No. 79 OF 17 SHEETS

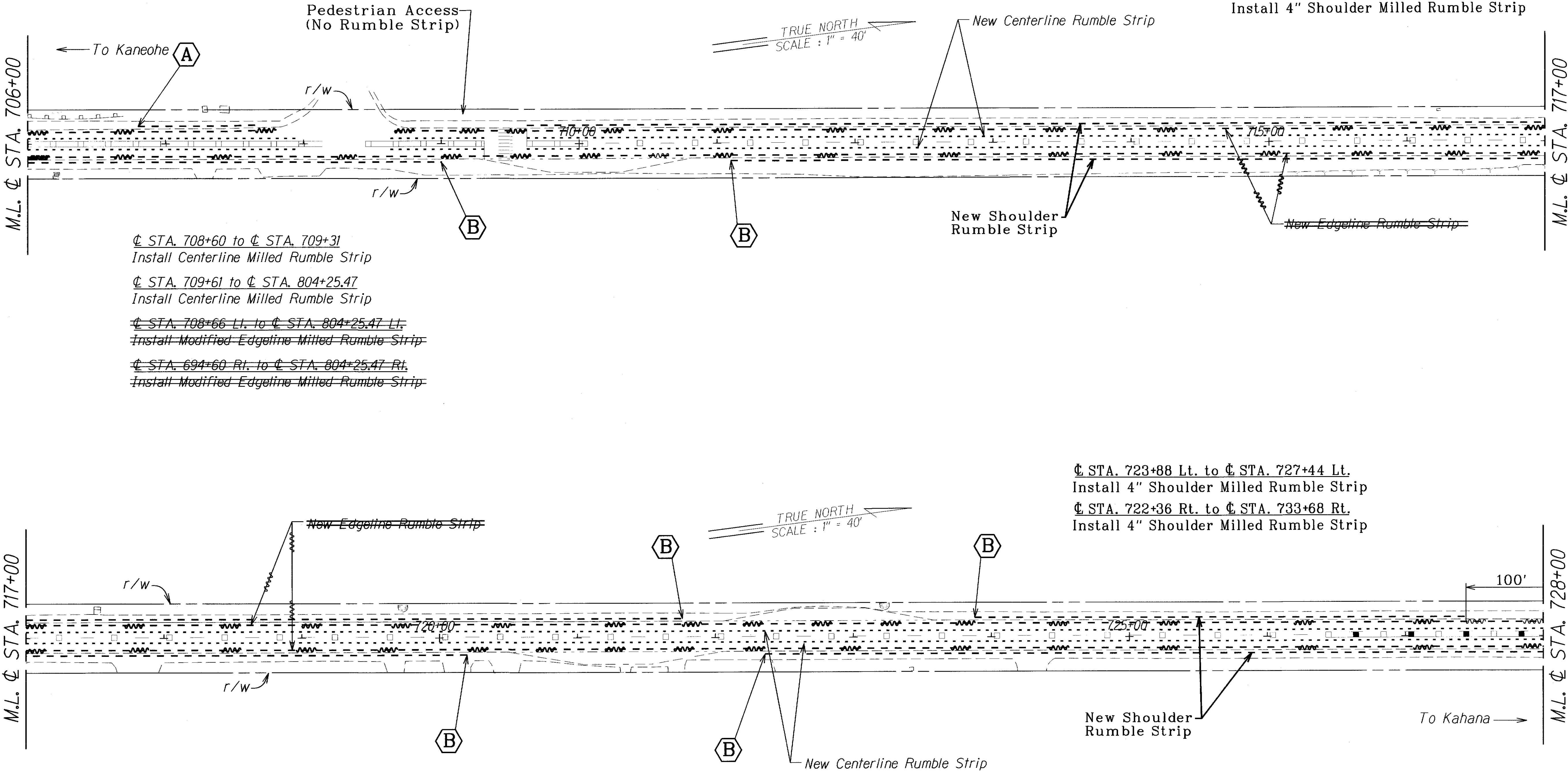
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-11069	2014	43	50

☉ STA. 706+80 Lt. to ☉ STA. 707+65 Lt.
Install 4" Shoulder Milled Rumble Strip
☉ STA. 698+42 Rt. to ☉ STA. 709+00 Rt.
Install 4" Shoulder Milled Rumble Strip

☉ STA. 709+62 Lt. to ☉ STA. 721+76 Lt.
Install 4" Shoulder Milled Rumble Strip
☉ STA. 711+10 Rt. to ☉ STA. 720+20 Rt.
Install 4" Shoulder Milled Rumble Strip



☉ STA. 708+60 to ☉ STA. 709+31
Install Centerline Milled Rumble Strip
☉ STA. 709+61 to ☉ STA. 804+25.47
Install Centerline Milled Rumble Strip
~~☉ STA. 708+66 Lt. to ☉ STA. 804+25.47 Lt.~~
~~Install Modified Edgeline Milled Rumble Strip~~
~~☉ STA. 694+60 Rt. to ☉ STA. 804+25.47 Rt.~~
~~Install Modified Edgeline Milled Rumble Strip~~

☉ STA. 723+88 Lt. to ☉ STA. 727+44 Lt.
Install 4" Shoulder Milled Rumble Strip
☉ STA. 722+36 Rt. to ☉ STA. 733+68 Rt.
Install 4" Shoulder Milled Rumble Strip

KEY:

- ① Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ② Remove Exist. Sign(s) & Install New Sign(s)
- ③ Install New Sign(s) & Post(s)
- ④ Install New Sign(s)
- ⑤ Remove Exist. Sign(s) & Post(s)
- ⑥ Remove Exist. Sign(s)

For details on rumble strips see
Plan Sheet No. 36.

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

NOTE:
All Existing Pavement Marking &
Striping Shall Remain & Are For
Reference Only

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

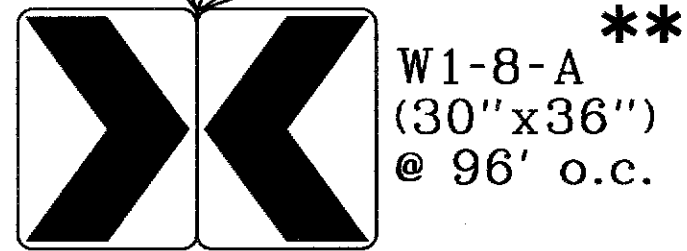
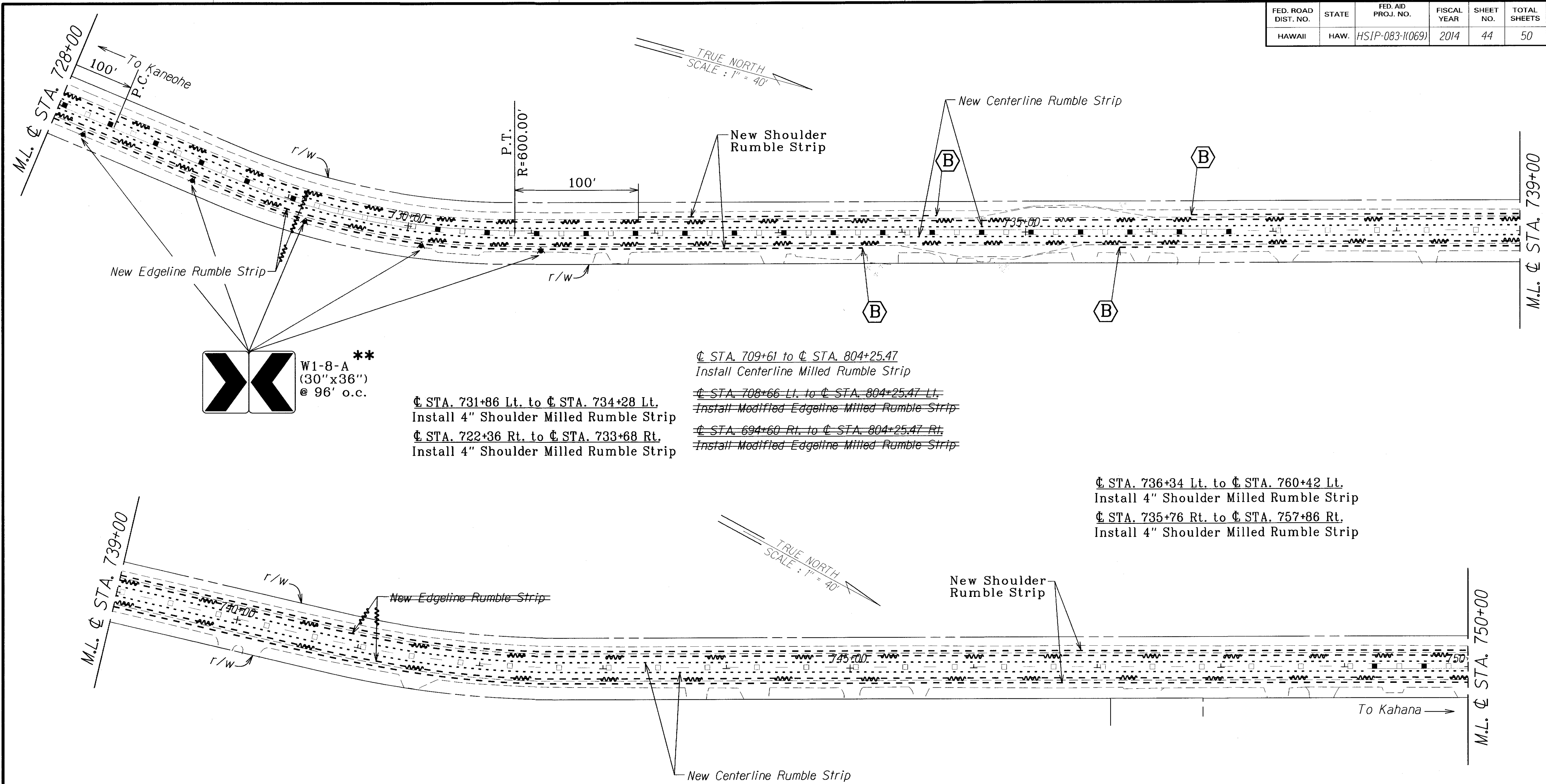
PAVEMENT MARKING & SIGNING PLAN

KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-11069

Scale: 1" = 40' Date: August 2014

SHEET No. 110 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-11069	2014	44	50



W1-8-A
 (30"x36")
 @ 96' o.c.

STA. 731+86 Lt. to STA. 734+28 Lt.
 Install 4" Shoulder Milled Rumble Strip
 STA. 722+36 Rt. to STA. 733+68 Rt.
 Install 4" Shoulder Milled Rumble Strip

STA. 709+61 to STA. 804+25.47
 Install Centerline Milled Rumble Strip
~~STA. 708+66 Lt. to STA. 804+25.47 Lt.~~
~~Install Modified Edgeline Milled Rumble Strip~~
~~STA. 694+60 Rt. to STA. 804+25.47 Rt.~~
~~Install Modified Edgeline Milled Rumble Strip~~

STA. 736+34 Lt. to STA. 760+42 Lt.
 Install 4" Shoulder Milled Rumble Strip
 STA. 735+76 Rt. to STA. 757+86 Rt.
 Install 4" Shoulder Milled Rumble Strip

KEY:

- ① Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ② Remove Exist. Sign(s) & Install New Sign(s)
- ③ Install New Sign(s) & Post(s)
- ④ Install New Sign(s)
- ⑤ Remove Exist. Sign(s) & Post(s)
- ⑥ Remove Exist. Sign(s)

△** Fluorescent Yellow Sign Sheeting

For details on rumble strips see Plan Sheet No. 36.

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

NOTE:

All Existing Pavement Marking & Striping Shall Remain & Are For Reference Only

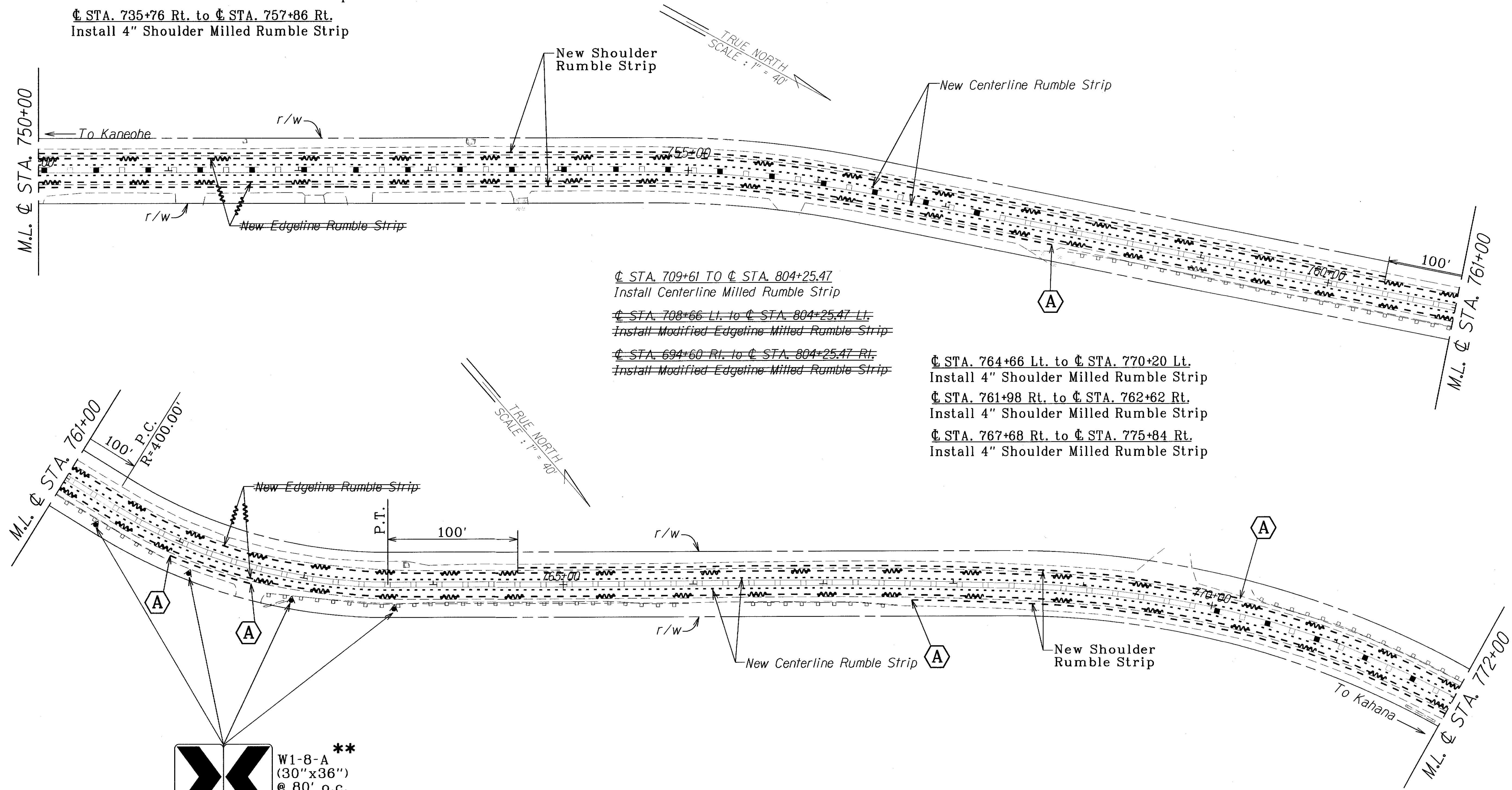
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN
KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-11069
Scale: 1" = 40'
Date: August 2014

SHEET No. 111 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	45	50

C STA. 736+34 Lt. to C STA. 760+42 Lt.
 Install 4" Shoulder Milled Rumble Strip
 C STA. 735+76 Rt. to C STA. 757+86 Rt.
 Install 4" Shoulder Milled Rumble Strip



KEY:

- Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- Remove Exist. Sign(s) & Install New Sign(s)
- Install New Sign(s) & Post(s)
- Install New Sign(s)
- Remove Exist. Sign(s) & Post(s)
- Remove Exist. Sign(s)

** Fluorescent Yellow Sign Sheet

For details on rumble strips see
 Plan Sheet No. 36.

LEGEND FOR AS-BUILT POSTINGS

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

NOTE:

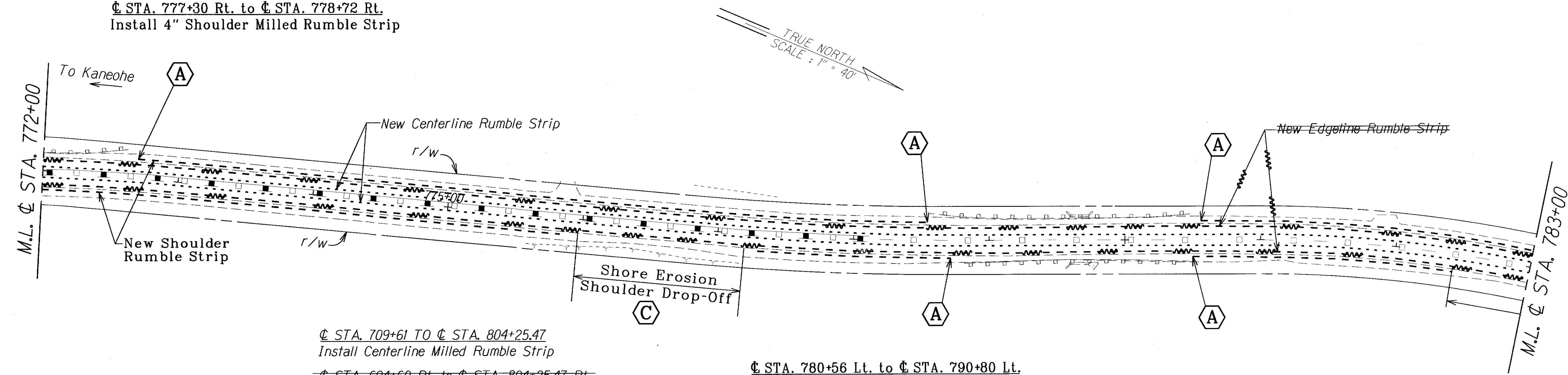
All Existing Pavement Marking &
 Striping Shall Remain & Are For
 Reference Only

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PAVEMENT MARKING & SIGNING PLAN	
KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS	
Waikane Valley Road to Kaaawa Bridge	
Federal Aid Project No. HSIP-083-1(069)	
Scale: 1" = 40'	Date: August 2014
SHEET No. T12 OF 17 SHEETS	

"AS-BUILT"

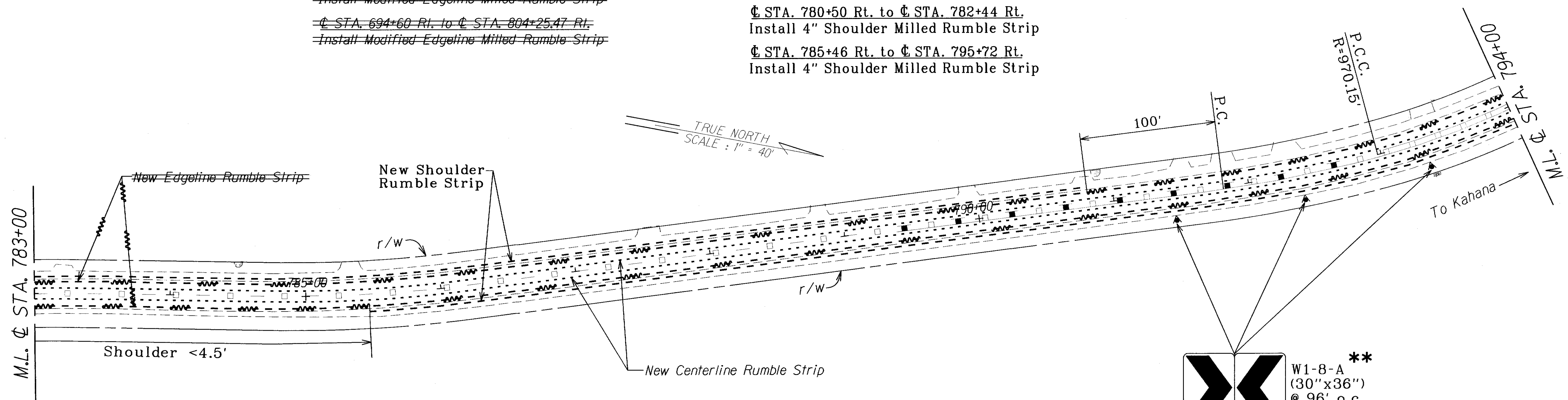
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	46	50

CL STA. 772+70 Lt. to CL STA. 778+54 Lt.
 Install 4" Shoulder Milled Rumble Strip
 CL STA. 767+68 Rt. to CL STA. 775+84 Rt.
 Install 4" Shoulder Milled Rumble Strip
 CL STA. 777+30 Rt. to CL STA. 778+72 Rt.
 Install 4" Shoulder Milled Rumble Strip



CL STA. 709+61 TO CL STA. 804+25.47
 Install Centerline Milled Rumble Strip
~~CL STA. 694+60 Rt. to CL STA. 804+25.47 Rt.~~
~~Install Modified Edgeline Milled Rumble Strip~~
~~CL STA. 694+60 Rt. to CL STA. 804+25.47 Rt.~~
~~Install Modified Edgeline Milled Rumble Strip~~

CL STA. 780+56 Lt. to CL STA. 790+80 Lt.
 Install 4" Shoulder Milled Rumble Strip
 CL STA. 780+50 Rt. to CL STA. 782+44 Rt.
 Install 4" Shoulder Milled Rumble Strip
 CL STA. 785+46 Rt. to CL STA. 795+72 Rt.
 Install 4" Shoulder Milled Rumble Strip



**
 W1-8-A
 (30"x36")
 @ 96' o.c.

KEY:

- Remove Exist. Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- Remove Exist. Sign(s) & Install New Sign(s)
- Install New Sign(s) & Post(s)
- Install New Sign(s)
- Remove Exist. Sign(s) & Post(s)
- Remove Exist. Sign(s)

** Fluorescent Yellow Sign Sheetting

For details on rumble strips see
 Plan Sheet No. 36.

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

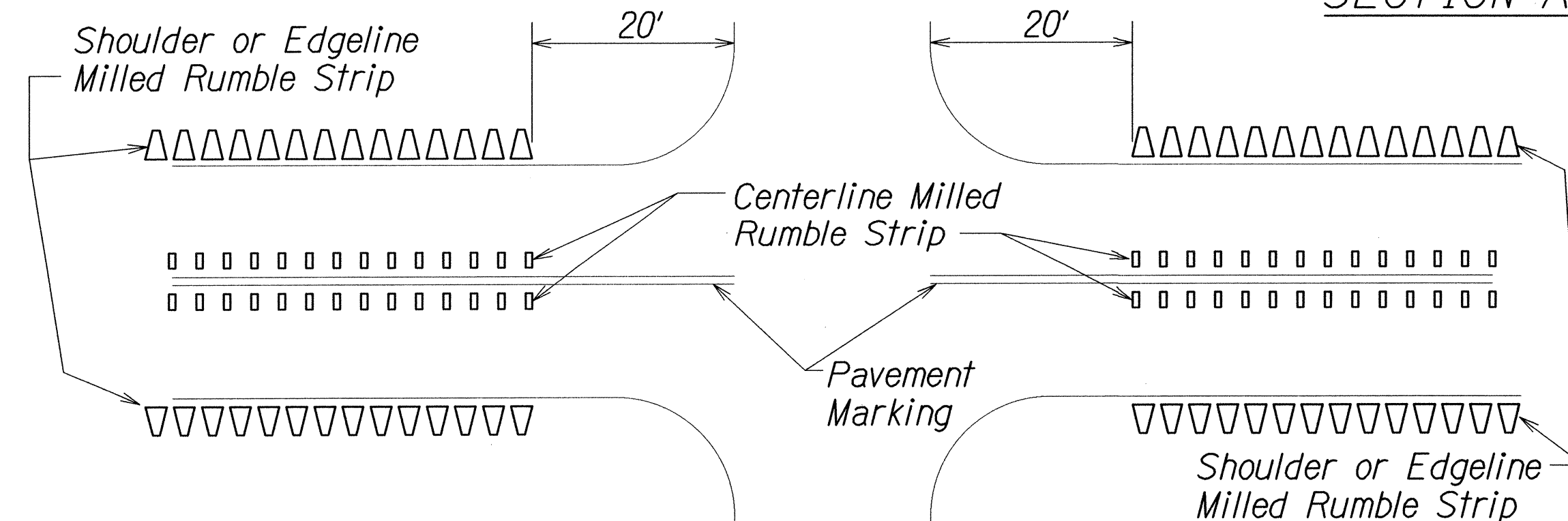
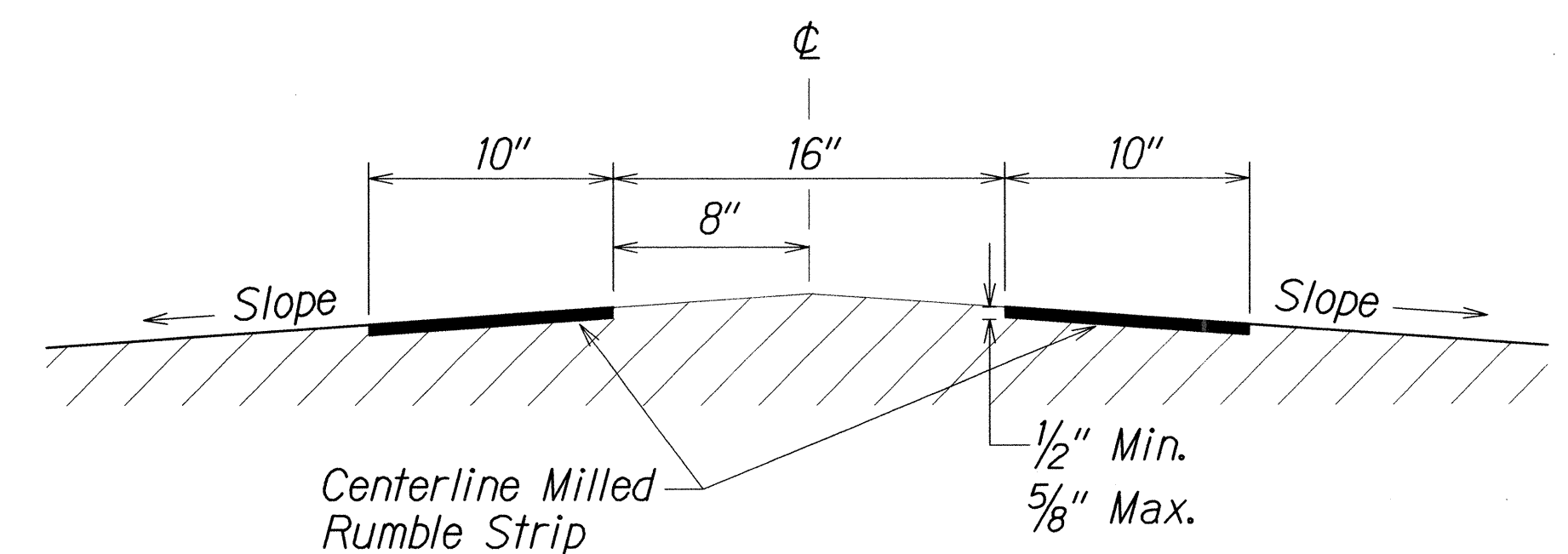
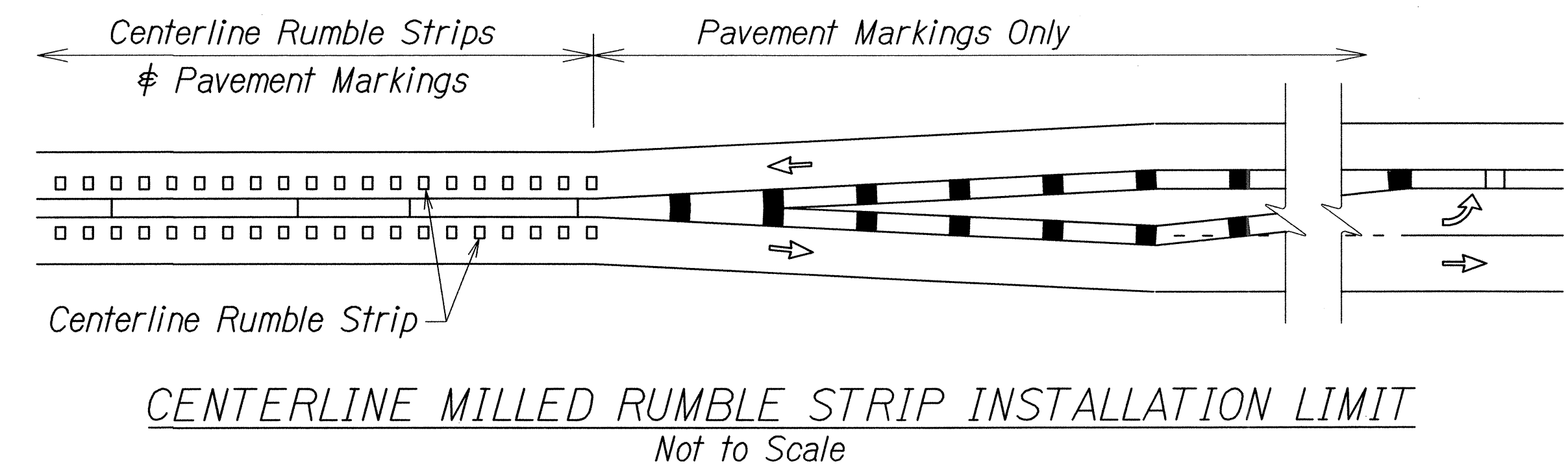
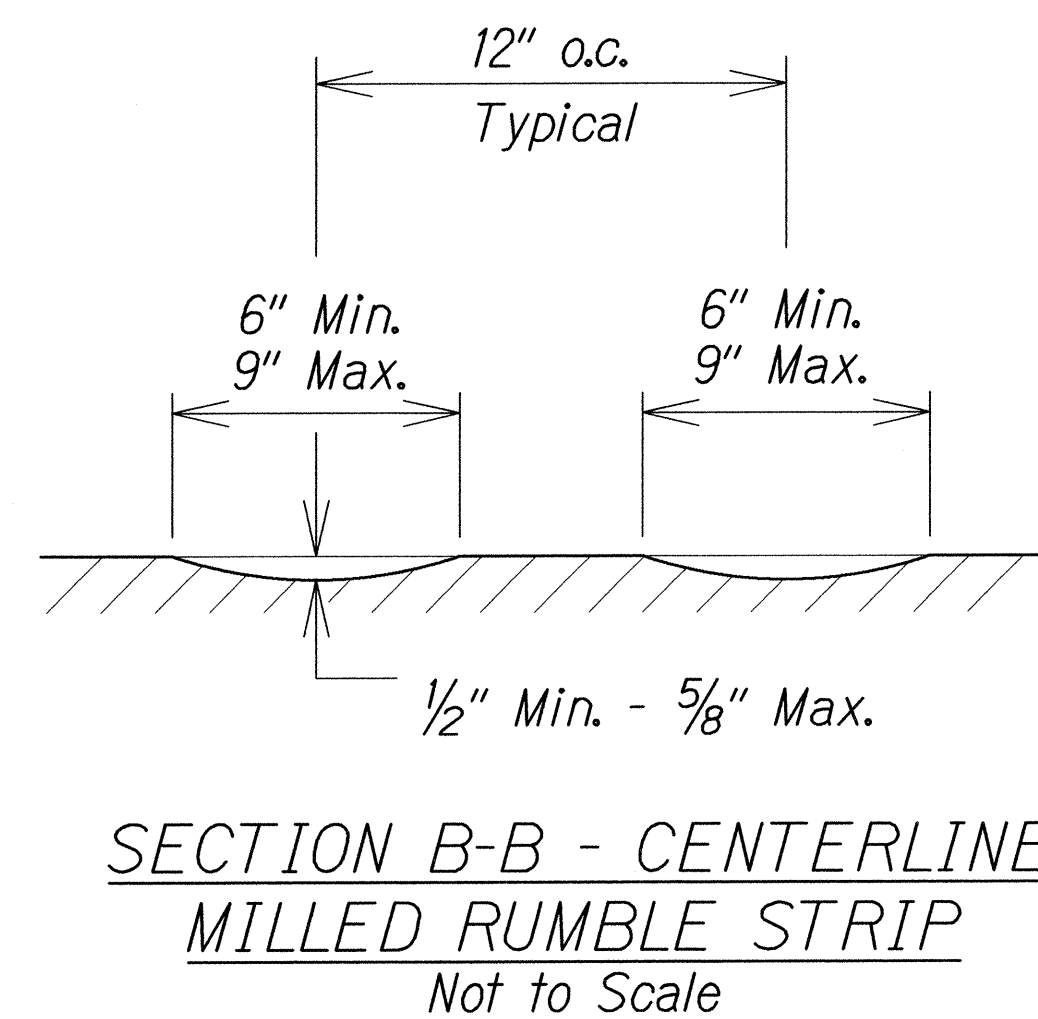
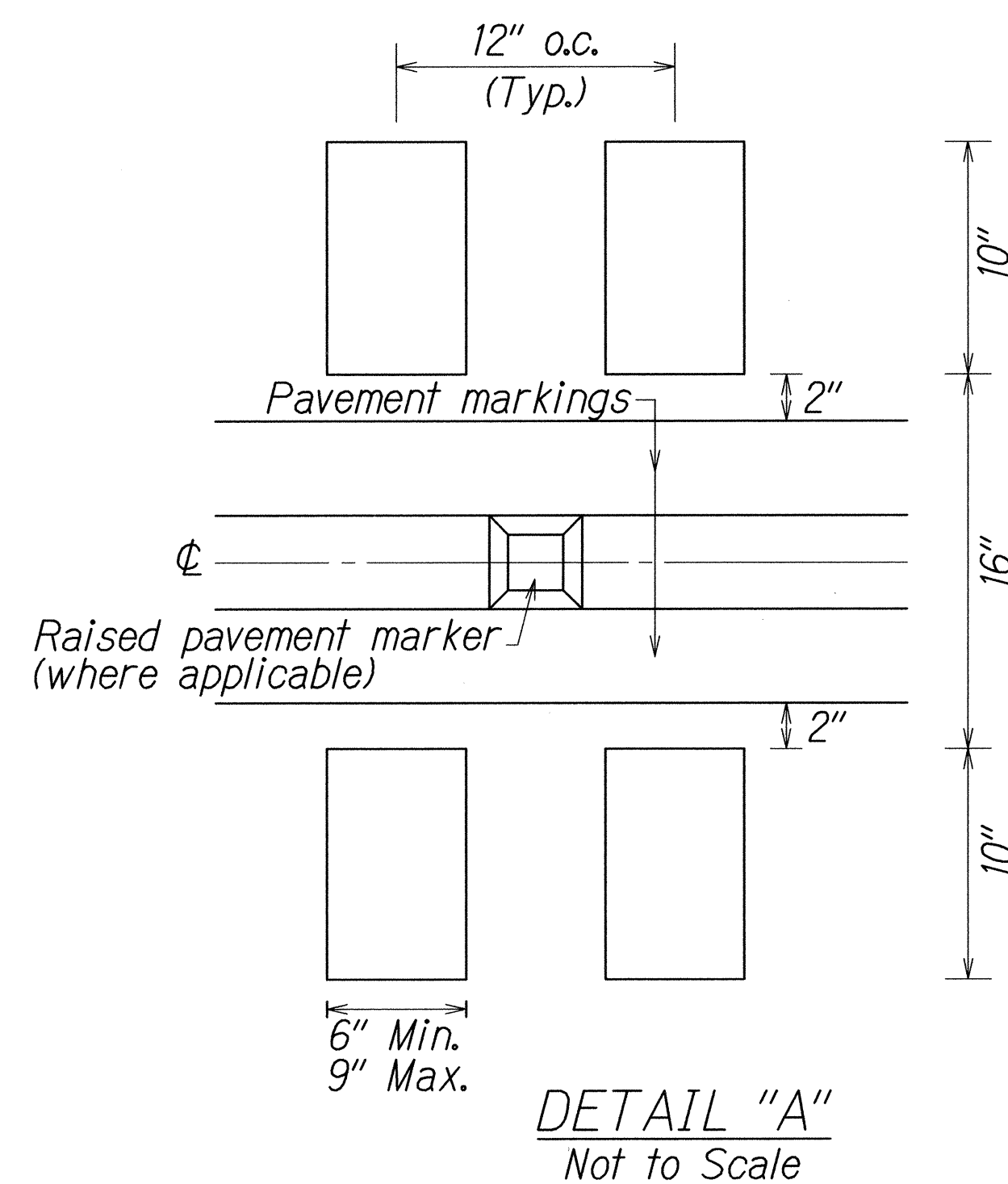
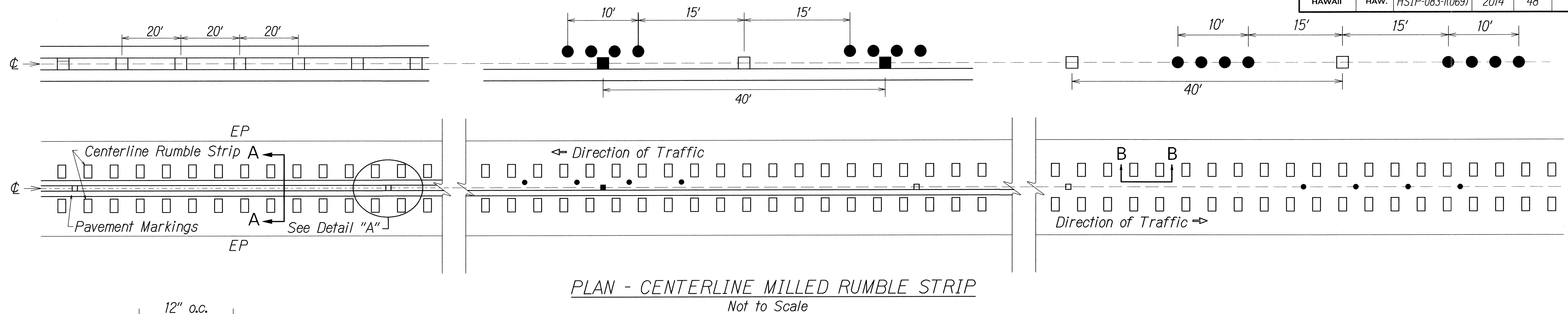
NOTE:

All Existing Pavement Marking &
 Striping Shall Remain & Are For
 Reference Only

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN
 KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
 Waikane Valley Road to Kaaawa Bridge
 Federal Aid Project No. HSIP-083-1(069)
 Scale: 1" = 40' Date: August 2014
 SHEET No. T13 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	48	50



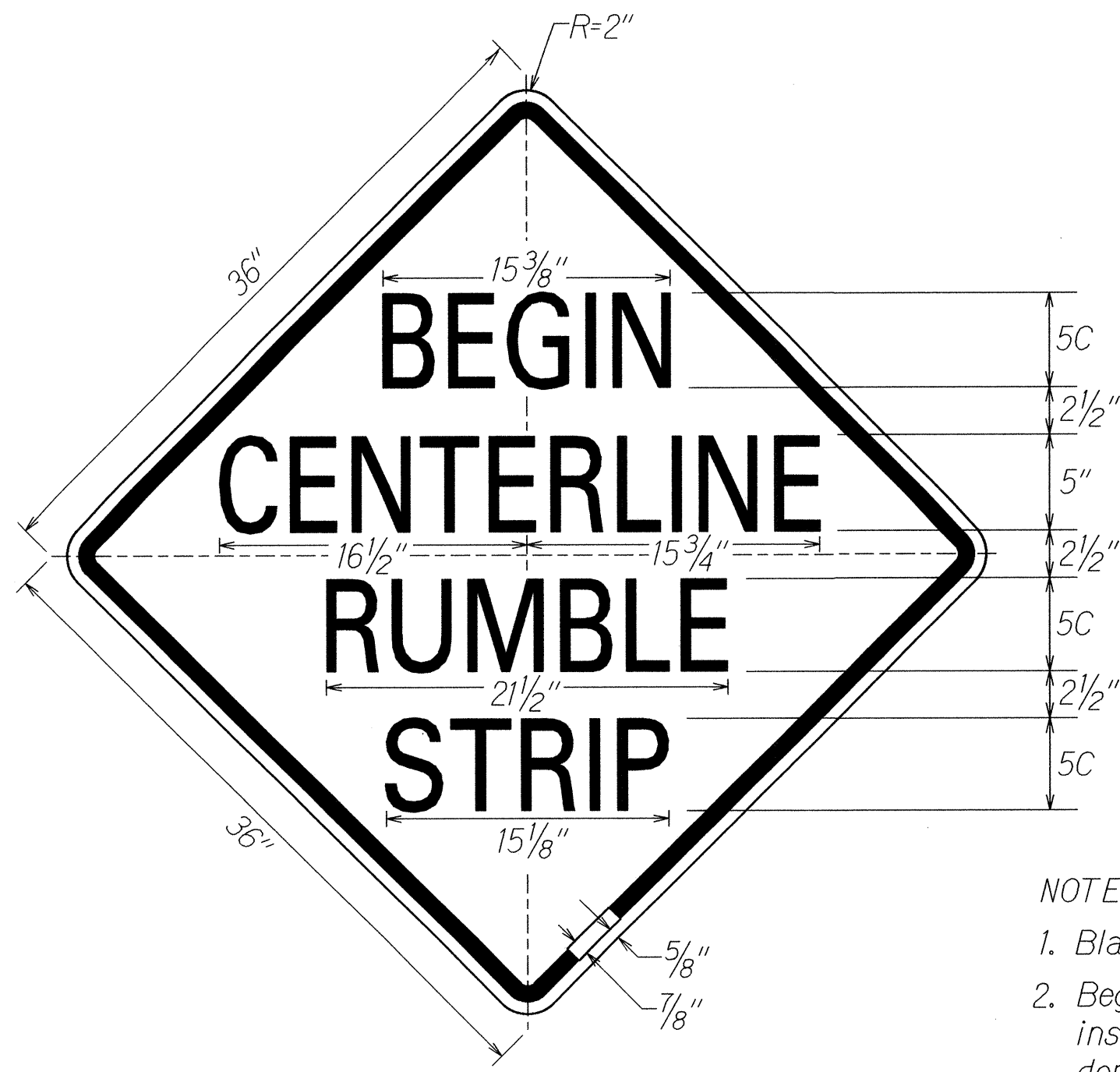
MILLED RUMBLE STRIP INSTALLATION LIMITS
Not to Scale

- NOTES:

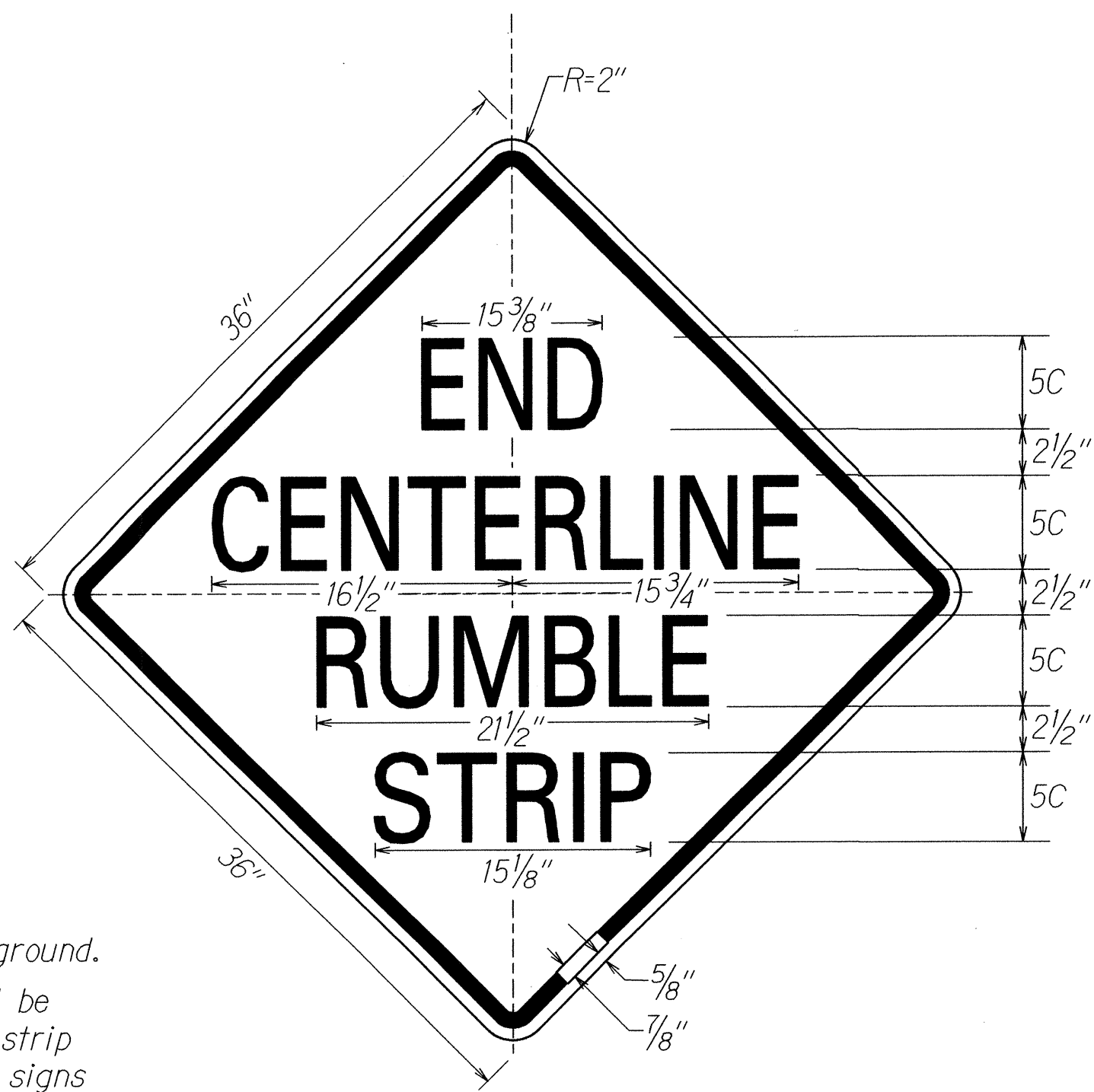
1. *The method of constructing the centerline milled rumble strip shall be submitted to the Engineer for acceptance prior to the actual work.*
2. *Dimensions shown are approximate. Adjust rumble strip spacing to coordinate with pavement markings prior to installation.*
3. *Raised pavement markers shall be installed on level surface between the rumble strips. Do not install raised pavement markers inside the milled area.*
4. *The construction of the centerline milled rumble strip shall be paid for under Item No. 615.0110 - Double 10-inch Milled Rumble Strip, Centerline.*
5. *The milling apparatus and removal of existing pavement markings will not be paid for separately and shall be considered incidental to Item 615.0110 - Double 10-Inch Milled Rumble Strip, Centerline.*
6. *Do not install centerline rumble strips on bridge decks.*
7. *Where at-grade bridges are present, rumble strips shall end/begin 20 L.F. beyond the existing bridge deck joints/concrete approach slab.*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CENTERLINE MILLED
RUMBLE STRIP DETAIL
KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-1(069)
Scale: As Shown Date: August 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	49	50



W8-14a



W8-14b

NOTE:

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

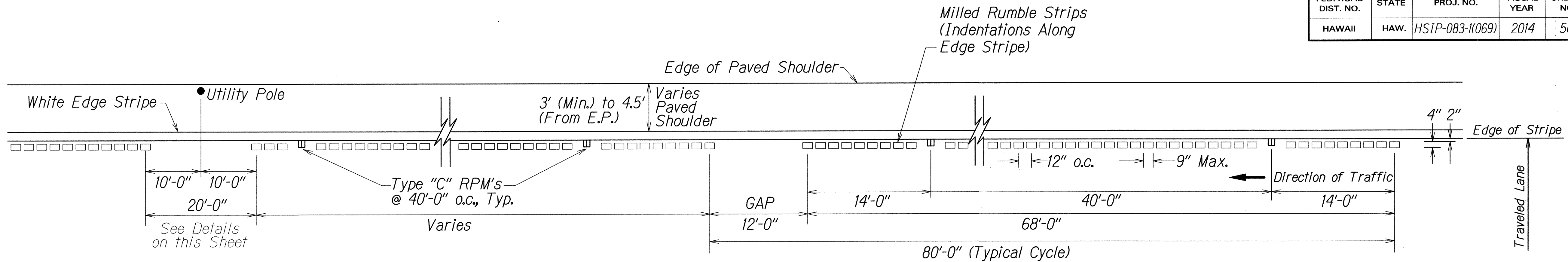
SIGN NOTES

1. All signs shall conform to Section 621 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 Type II OM. Installation of Type II OM shall be considered incidental to sign items.
10. Contractor shall mark the back of all signs using labels. Payment to be incidental to various contract items.

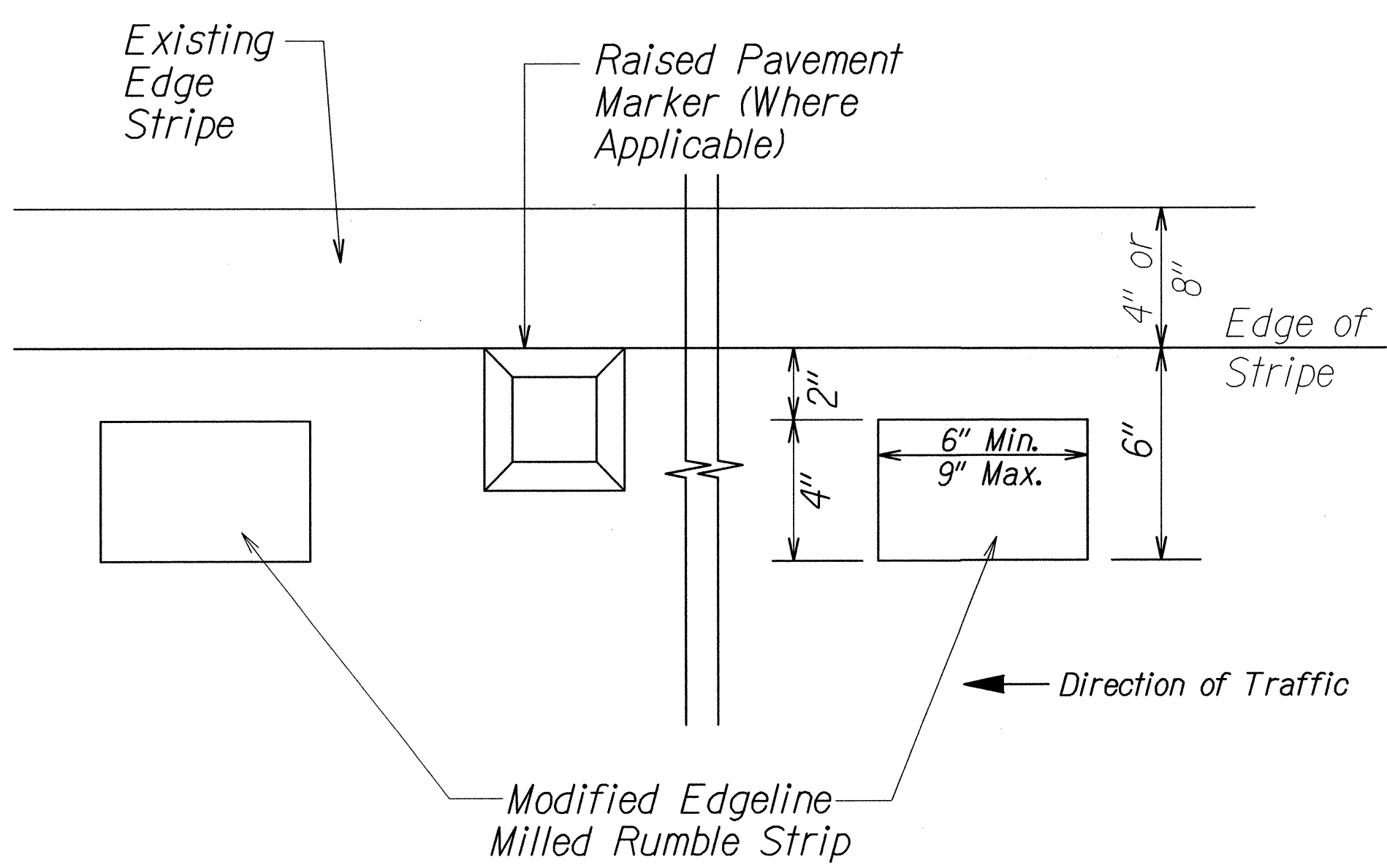
GENERAL PLAN	DESIGNED BY	DATE
NOTED BY	DESIGNED BY	DATE
CHECKED BY	DESIGNED BY	DATE
CHECKED BY	DESIGNED BY	DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
CENTERLINE RUMBLE STRIP
SIGN DETAILS AND NOTES
KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-1(069)
Not to Scale Date: August 2014
SHEET No. T16 OF 17 SHEETS

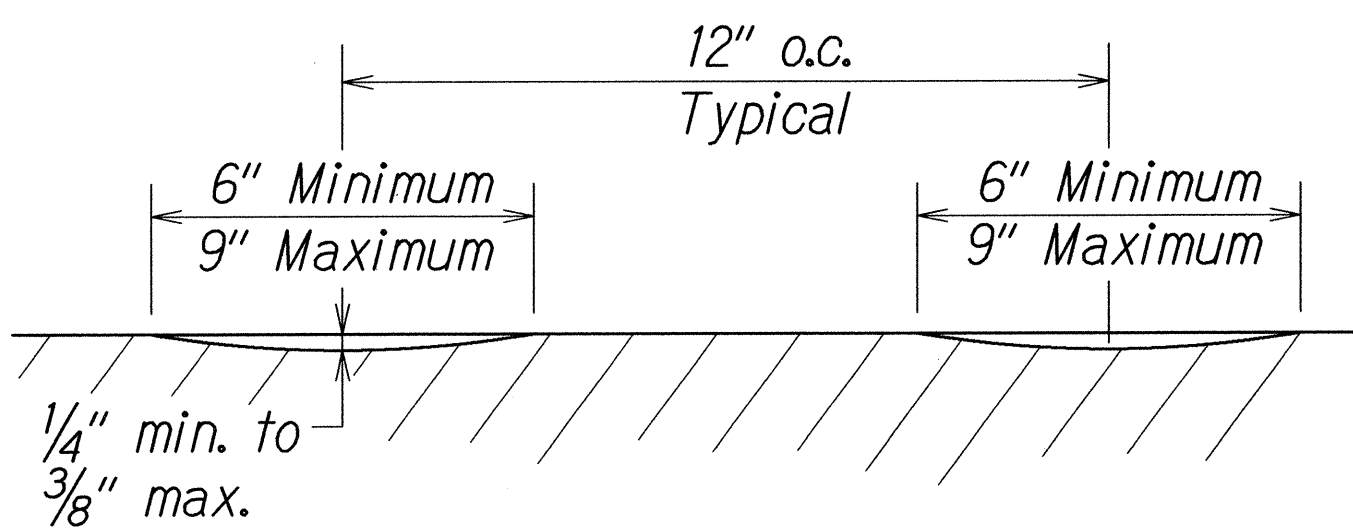
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	50	50



PLAN - MODIFIED EDGE LINE MILLED RUMBLE STRIP (3' SHOULDER)
Not to Scale



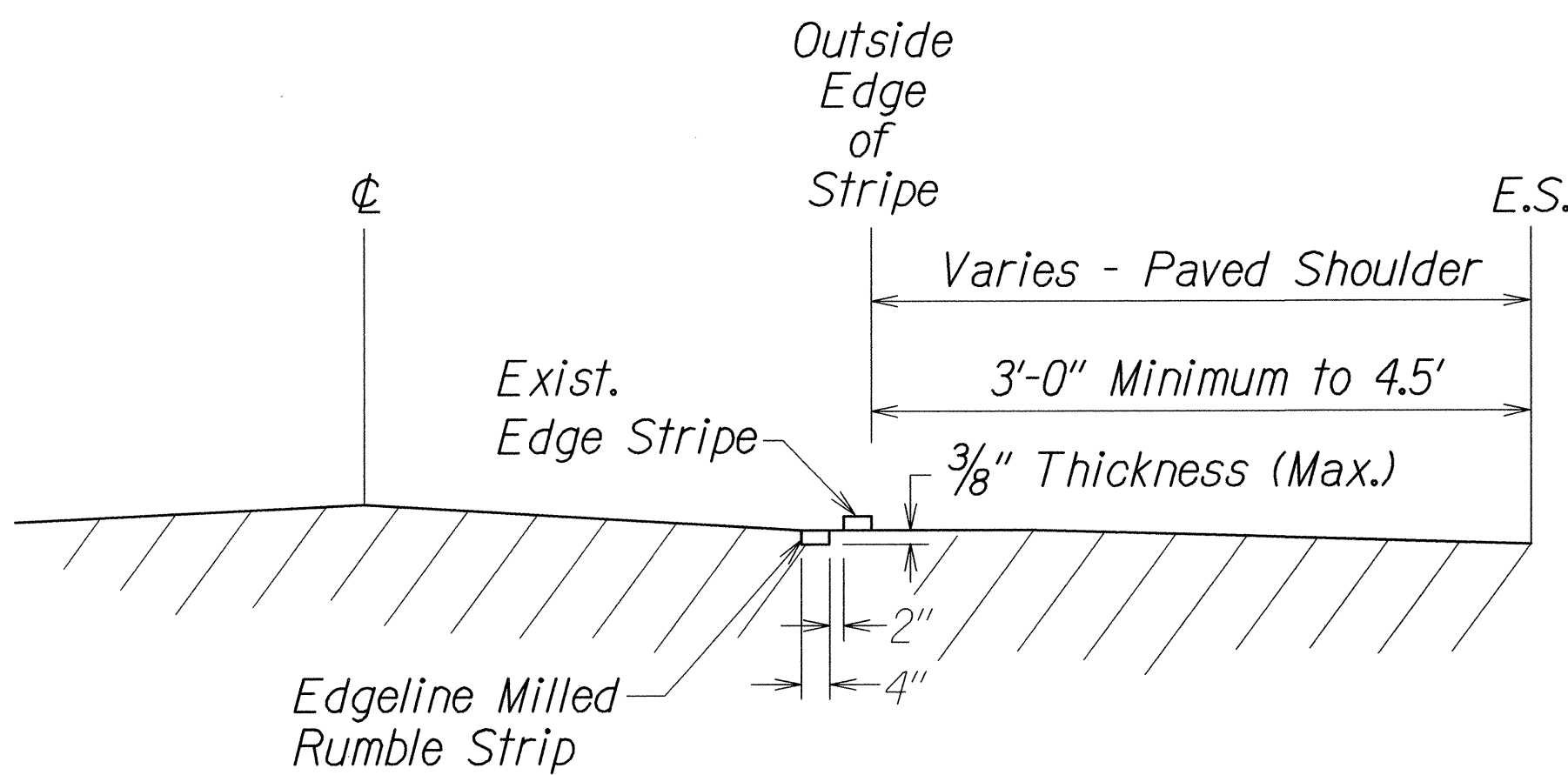
DETAIL - MODIFIED EDGE LINE MILLED RUMBLE STRIP
Not to Scale



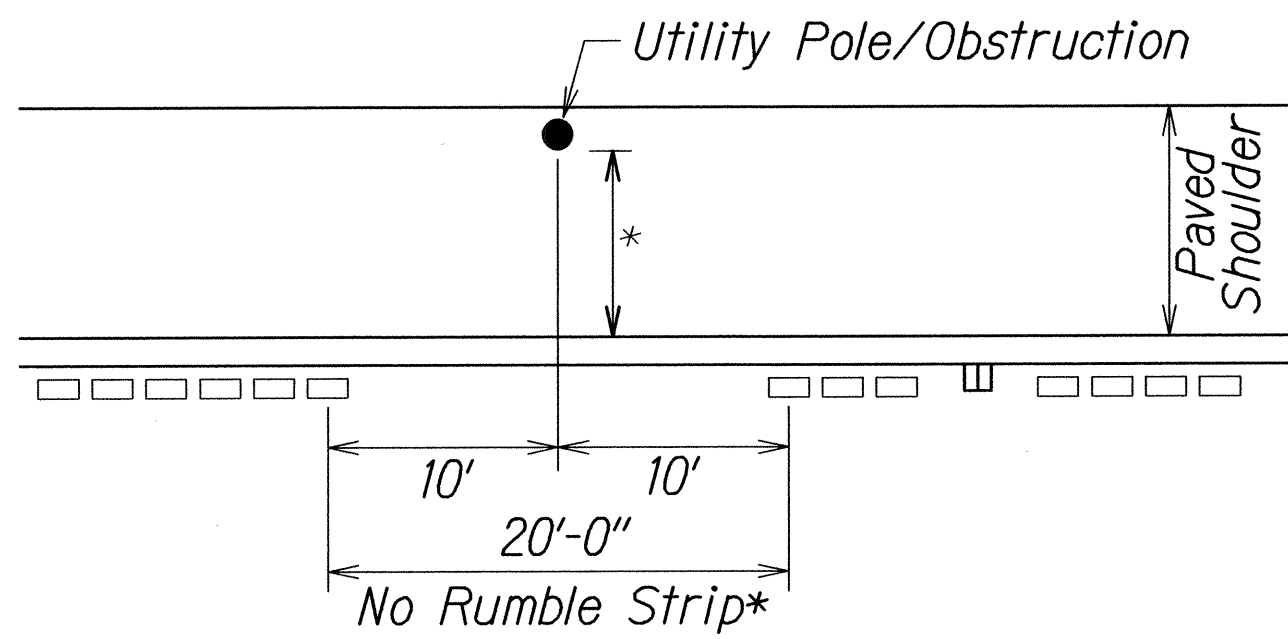
CROSS SECTION - MODIFIED EDGE LINE
MILLED RUMBLE STRIP
Not to Scale

NOTES:

- Modified Edgeline milled rumble strips may be installed for paved shoulder width of 3' minimum to 4.5' from outside edge of pavement stripe.
- The method of constructing the modified edgeline 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.
- The construction of the modified edgeline milled rumble strip and 12-foot gaps shall be paid for under Item No. 615.0400 - 4-Inch Milled Rumble Strip, Modified Edgeline.
- The milling apparatus will not be paid for separately and shall be considered incidental to Item 615.0400 - 4-Inch Milled Rumble Strip, Modified Edgeline.
- Rumble strips shall be installed along all shoulders, except at right turn deceleration and acceleration lanes, as noted on the plans.
- Do not install modified edgeline 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.



LONGITUDINAL SECTION - MODIFIED EDGE LINE MILLED RUMBLE STRIP
Not to Scale



*Delete Rumble Strip if Clearance Between Edge of Pavement Striping & Utility Pole is Less Than 3'

DETAIL - CONDITION WHERE UTILITY POLE EXISTS
Not to Scale

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MODIFIED EDGE LINE MILLED RUMBLE STRIP DETAIL FOR SHOULDER 3' TO 4.5'
KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-1(069)
Scale: As Shown Date: August 2014
SHEET No. T17 OF 17 SHEETS