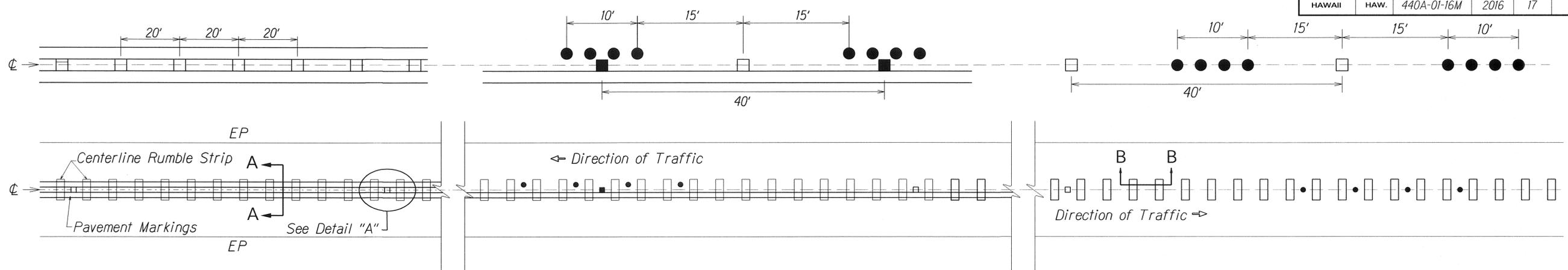
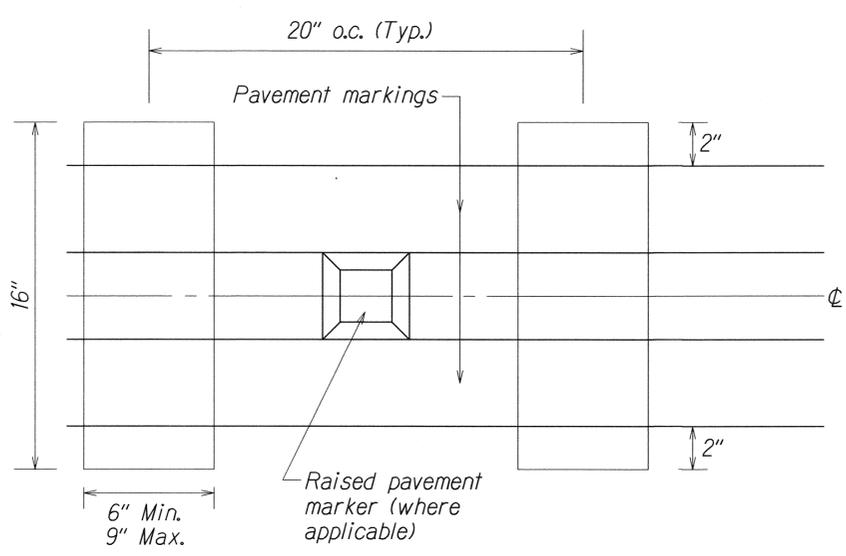


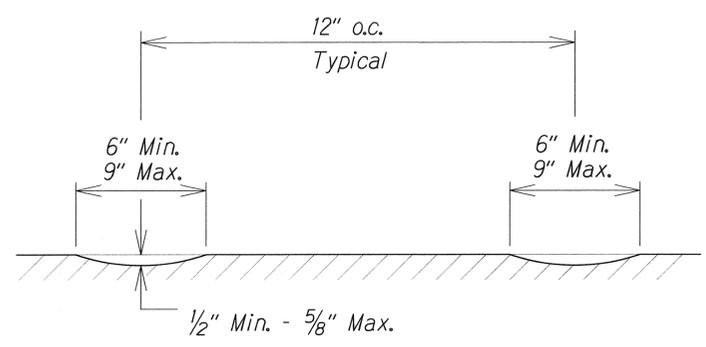
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	440A-01-16M	2016	17	26



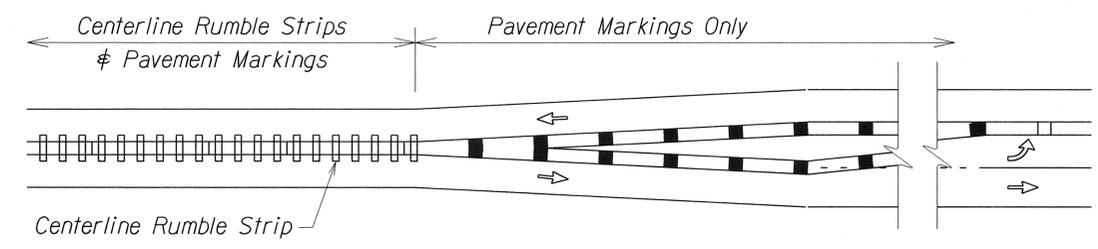
**PLAN - CENTERLINE MILLED RUMBLE STRIP**  
Not to Scale



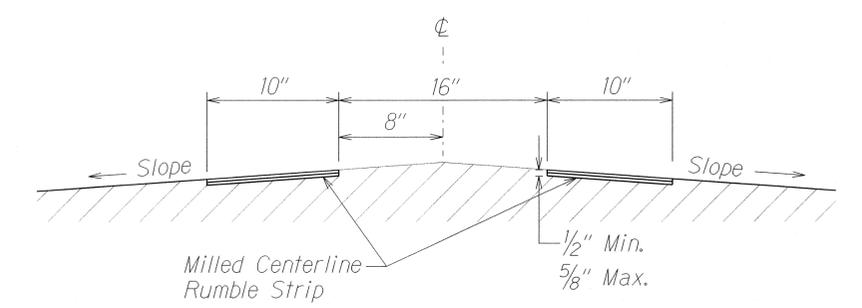
**DETAIL "A"**  
Not to Scale



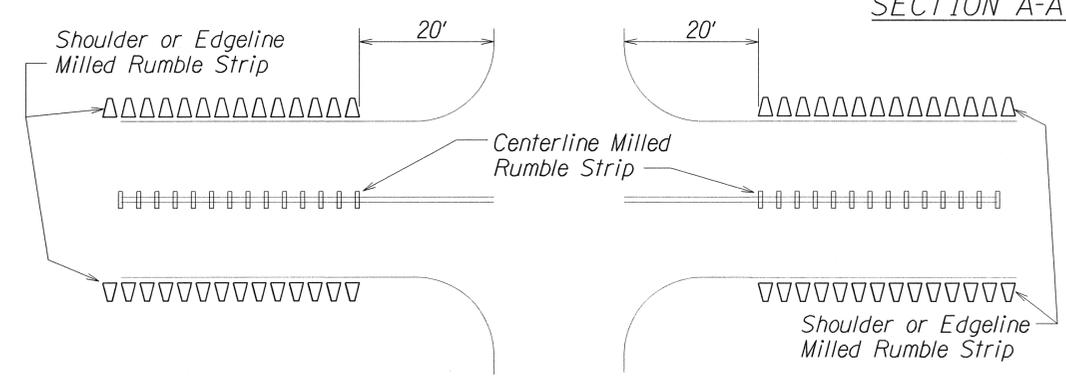
**SECTION B-B - CENTERLINE MILLED RUMBLE STRIP**  
Not to Scale



**CENTERLINE MILLED RUMBLE STRIP INSTALLATION LIMIT**  
Not to Scale



**SECTION A-A - CENTERLINE MILLED RUMBLE STRIP**  
Not to Scale



**MILLED RUMBLE STRIP INSTALLATION LIMITS**  
Not to Scale

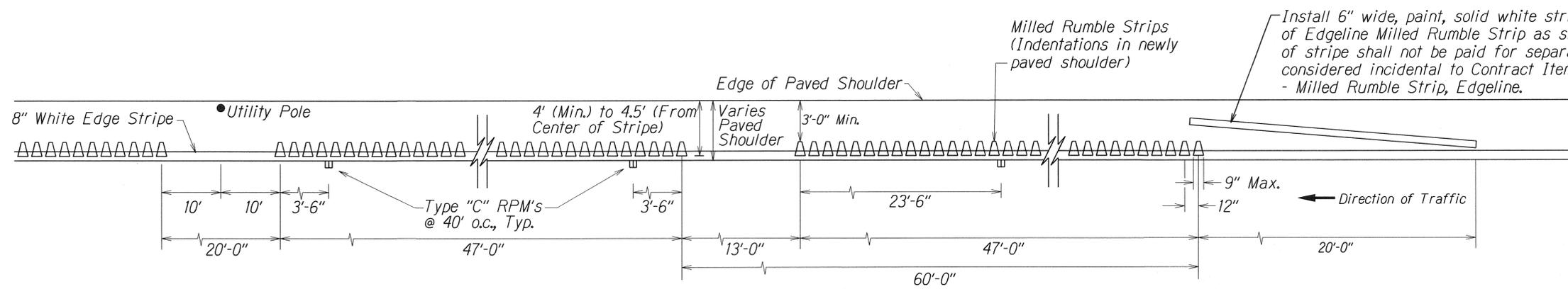
**NOTES:**

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. 615.0100 - 16-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 615.0100 - 16-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.
8. Hot spray thermoplastic shall be used for solid line markings within the milled centerline rumble strip area.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**CENTERLINE MILLED RUMBLE STRIP DETAIL**  
KAUMALAPAU HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE  
Airport Road to Lanai City  
Project No. 440A-01-16M  
Scale: As Shown Date: October, 2015  
SHEET No. 1 OF 2 SHEETS

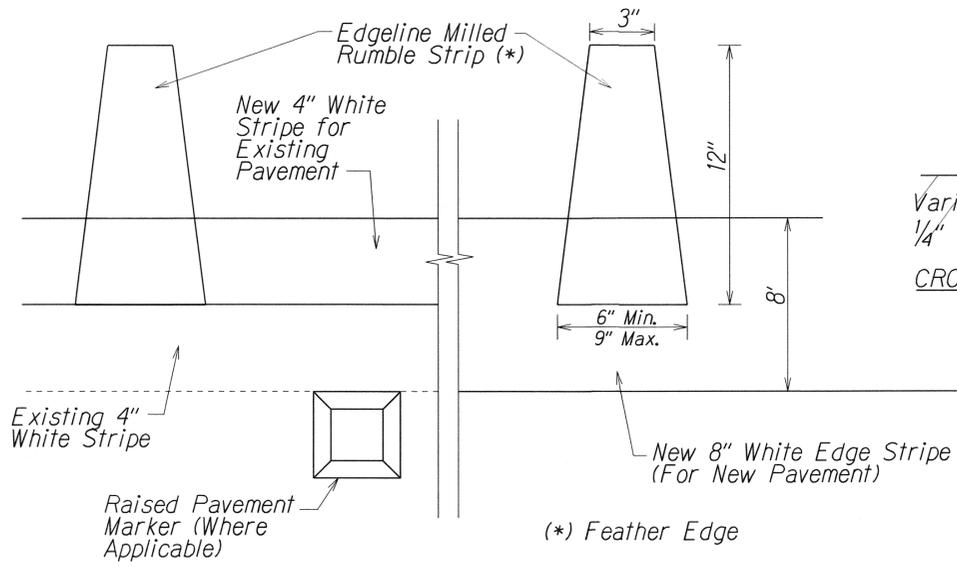
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	440A-01-16M	2016	18	26



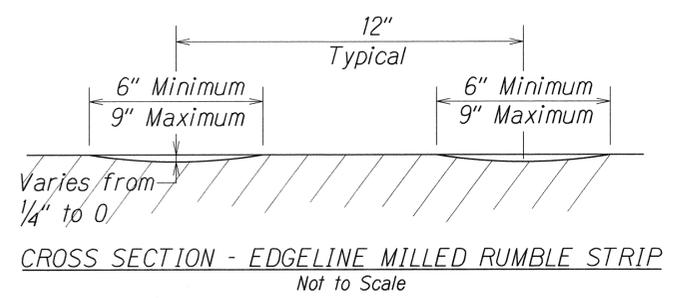
PLAN - EDGELINE MILLED RUMBLE STRIP  
Not to Scale

NOTES:

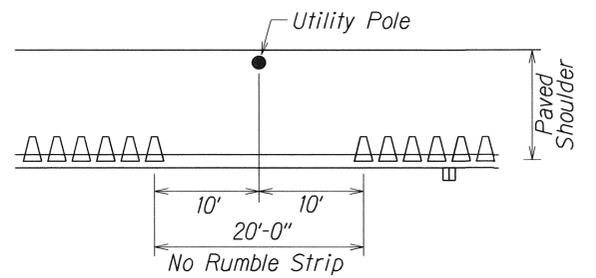
1. Edgeline milled rumble strips shall be installed where the existing condition of the shoulder are 4' to 4.5' from center of edge stripe.
2. The method of constructing the edgeline milled rumble strip shall be submitted to the Engineer for acceptance prior to the actual work.
3. Dimensions shown are approximate. Adjust rumble strip spacing to coordinate with pavement marking prior to installation.
4. Raised pavement markers shall be installed on level surface between the rumble strips. Do not install raised pavement markers inside the milled area.
5. The construction of the edgeline milled rumble strip and 13-foot gaps shall be paid for under Item No. 615.0200 - Milled Rumble Strip, Edgeline. The milling apparatus, 20 L.F. - 6" white stripe, and removal of existing pavement markings will not be paid for separately and shall be considered incidental to Item 615.0200 - Milled Rumble Strip, Edgeline.
6. Rumble strips shall be installed along all shoulders, except at right turn deceleration and acceleration lanes, as noted on the plans.
7. Do not place Type "C" Raised Pavement markers within 2 ft. of the 13 ft. Rumble Strip opening.
8. Do not install edgeline rumble strips on bridge decks.
9. Where at-grade bridges are present, rumble strips shall end/begin 20 L.F. beyond the existing bridge deck joints/concrete approach slab.
10. Rumble Strips are to be installed after the edge of pavement stripe and before the installation of the Type "C" raised pavement markers.
11. Pre-formed pavement striping tape or hot spray thermoplastic shall be used for solid line markings within the edgeline milled rumble strip area.



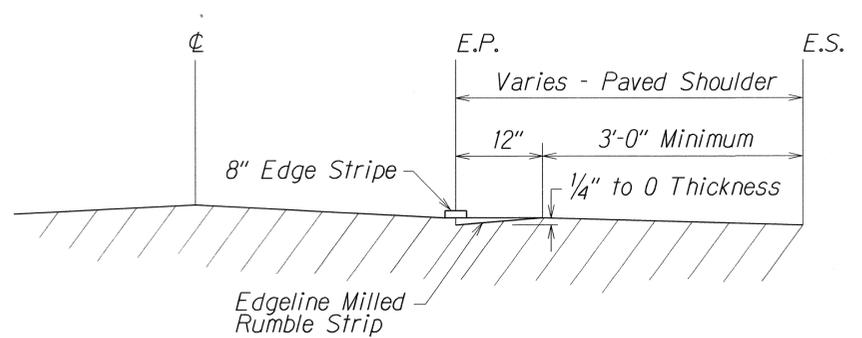
DETAIL - EDGELINE MILLED RUMBLE STRIP  
Not to Scale



CROSS SECTION - EDGELINE MILLED RUMBLE STRIP  
Not to Scale



DETAIL - CONDITION WHERE UTILITY POLE EXISTS  
Not to Scale



LONGITUDINAL SECTION - EDGELINE MILLED RUMBLE STRIP  
Not to Scale

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
DATE	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**EDGELINE MILLED RUMBLE STRIP**  
**DETAIL FOR SHOULDER 4' TO 4.5'**  
**KAUMALAPAU HIGHWAY PAVEMENT**  
**PREVENTIVE MAINTENANCE**  
Airport Road to Lanai City  
Project No. 440A-01-16M

Scale: As Shown Date: October, 2015

SHEET No. 2 OF 2 SHEETS