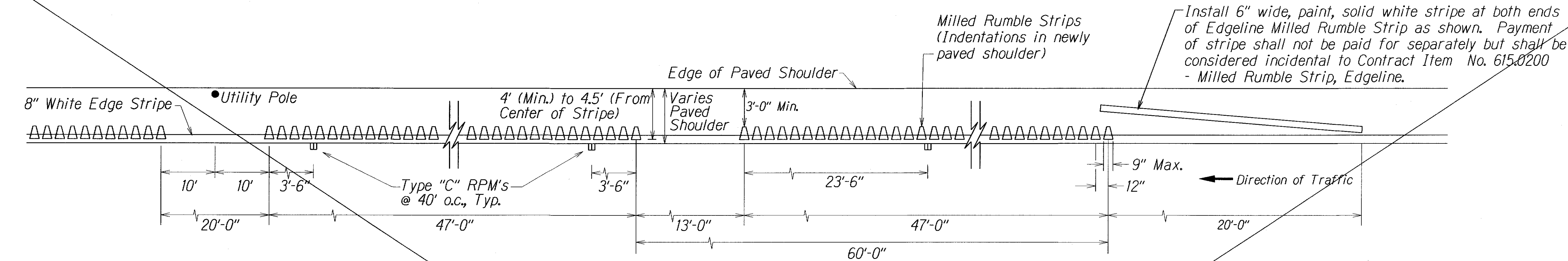
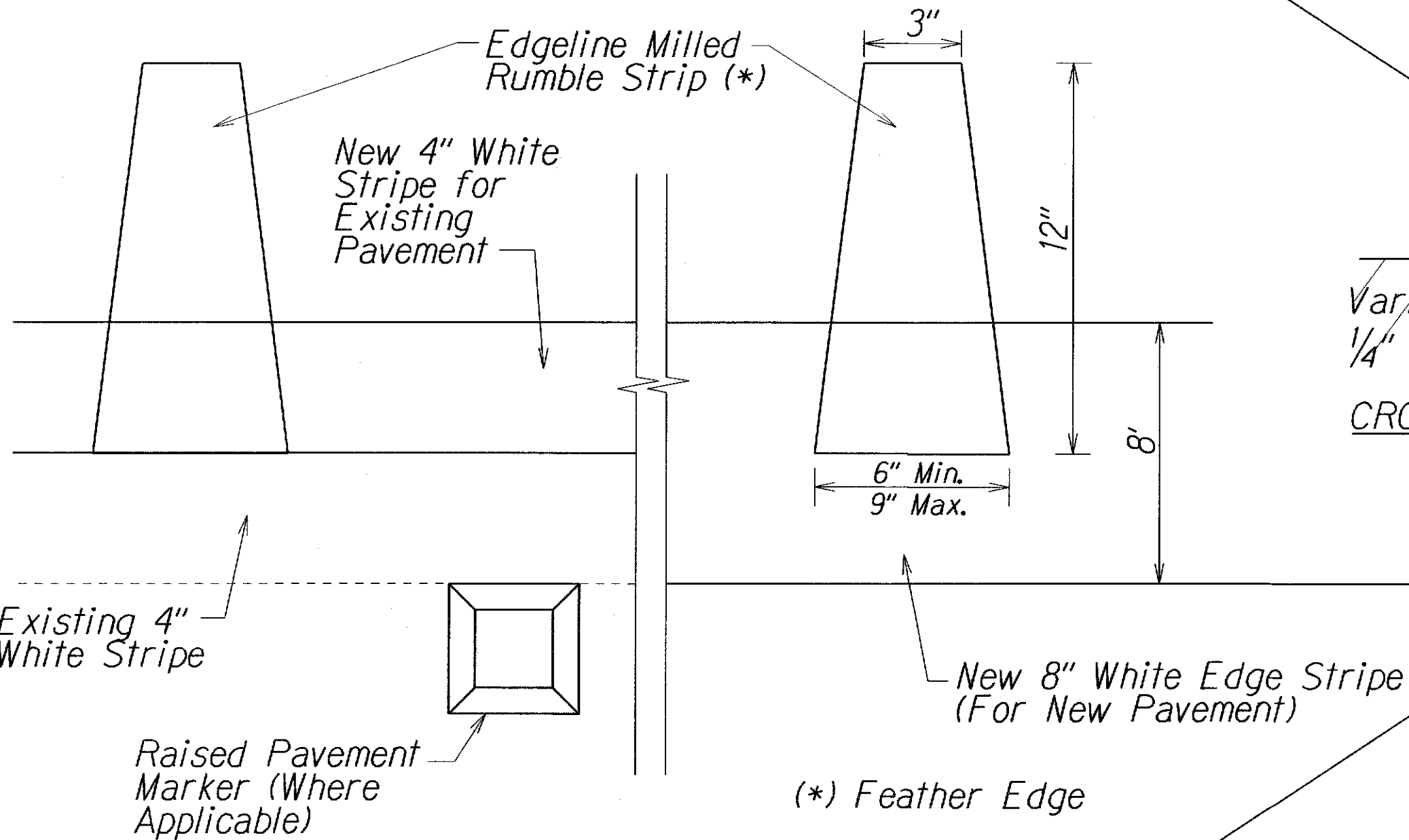


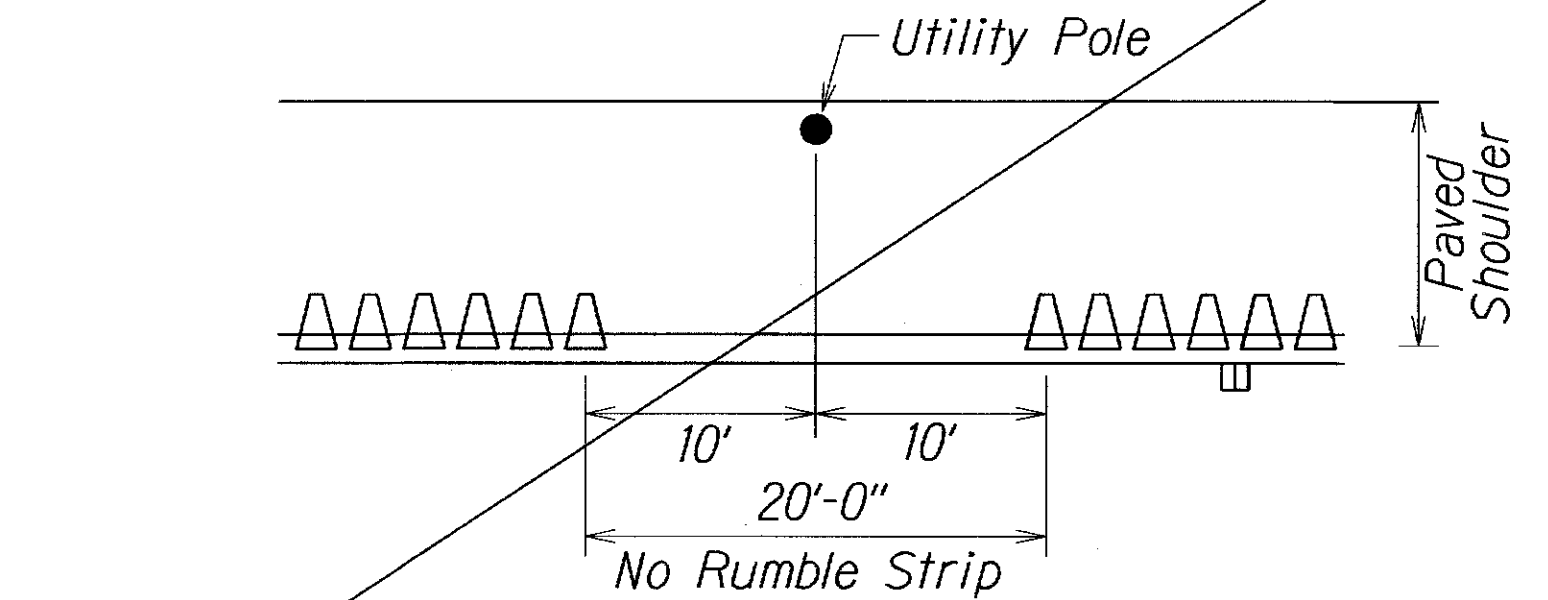
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(008)	2014	21	32



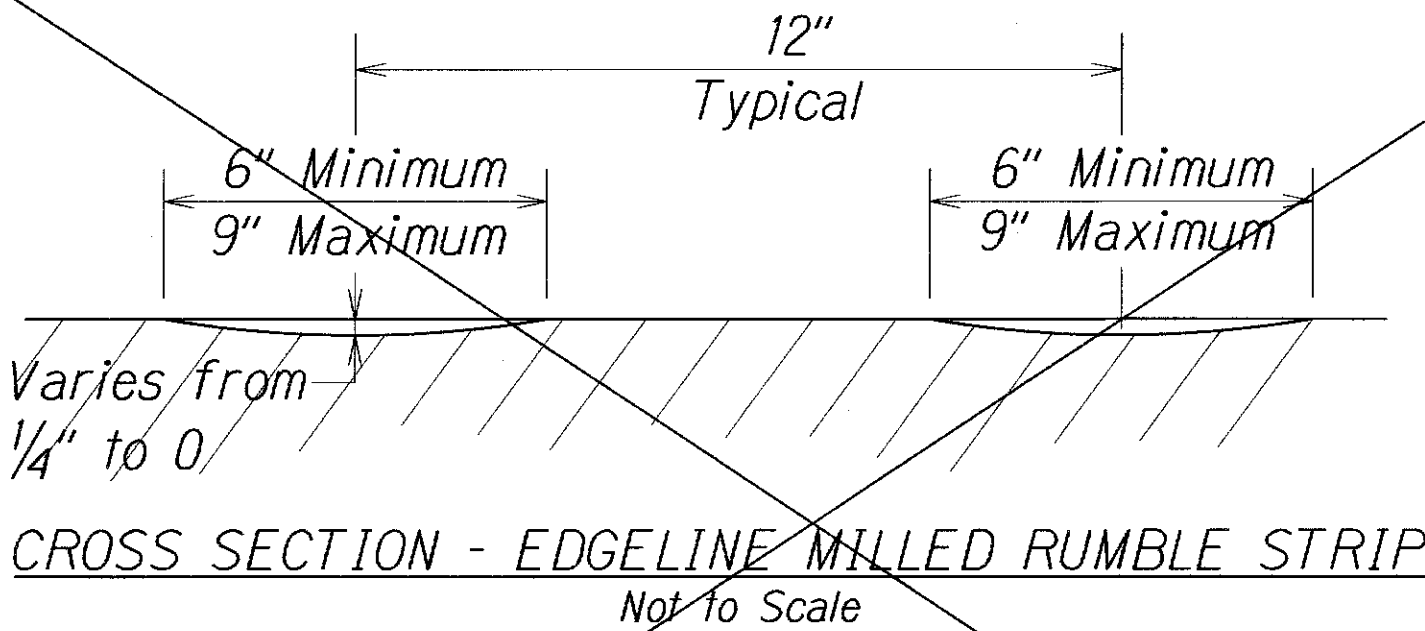
PLAN - EDGELINE MILLED RUMBLE STRIP
Not to Scale



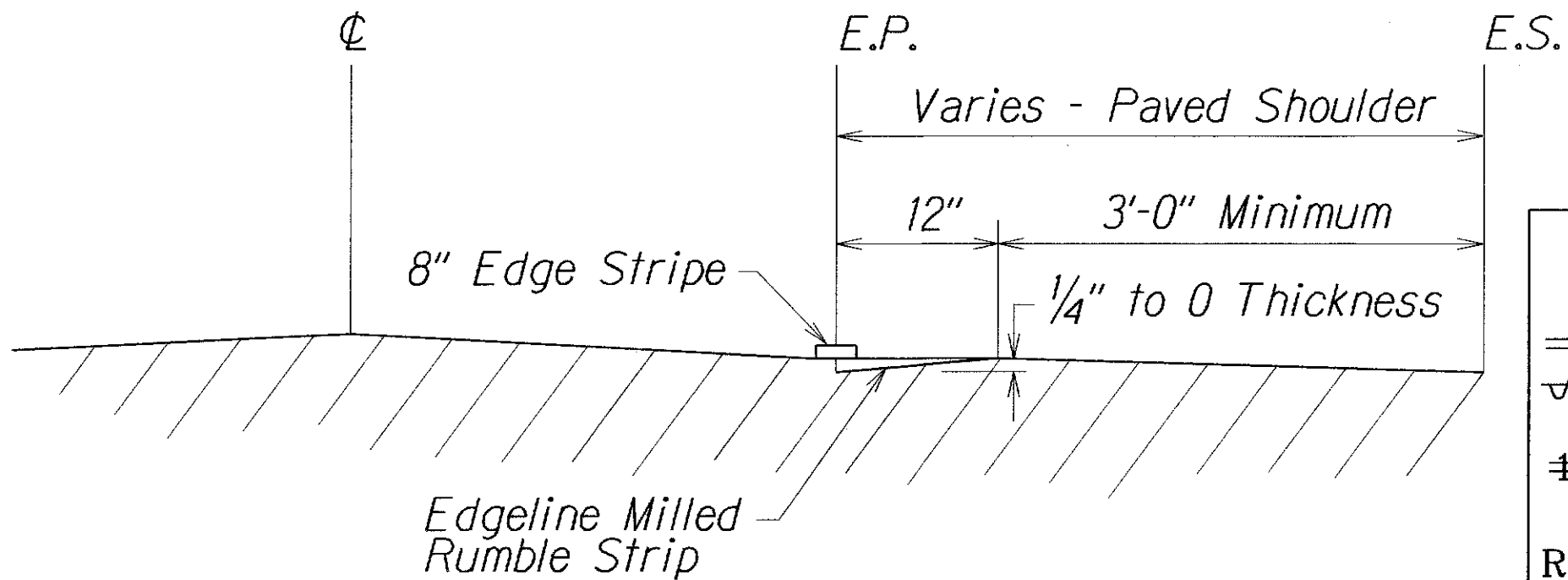
DETAIL - EDGELINE MILLED RUMBLE STRIP
Not to Scale



DETAIL - CONDITION WHERE UTILITY POLE EXISTS
Not to Scale



CROSS SECTION - EDGELINE MILLED RUMBLE STRIP
Not to Scale



LONGITUDINAL SECTION - EDGELINE MILLED RUMBLE STRIP
Not to Scale

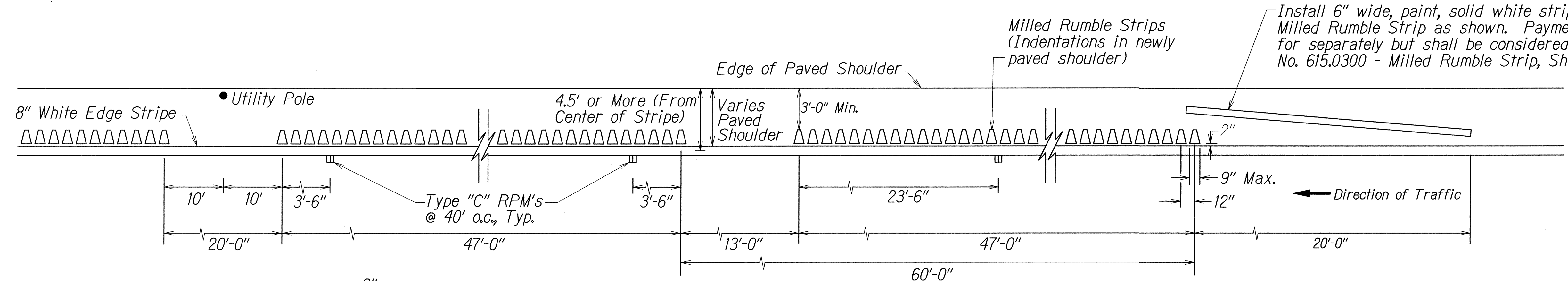
NOTES:

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.

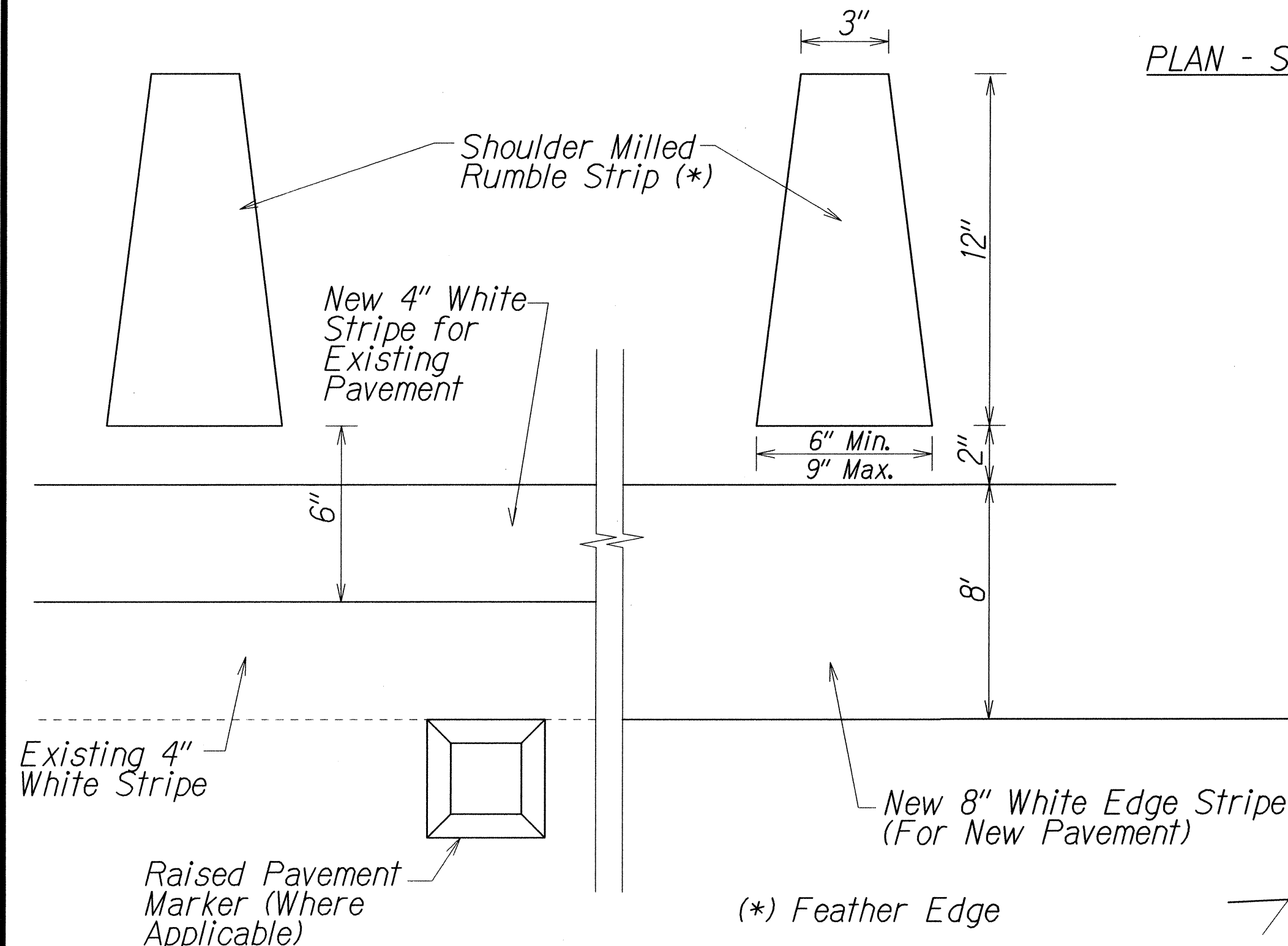
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
EDGELINE MILLED RUMBLE STRIP	
DETAIL FOR SHOULDER 4' TO 4.5'	
RTE 311 MOKULELE HIGHWAY	
PAVEMENT PREVENTIVE MAINTENANCE	
Kuihelani Highway to Maui Humane Society	
Federal Aid Project No. NH-A311(008)	
Scale: As Shown	Date: February, 2014
SHEET No. 1	OF 2 SHEETS

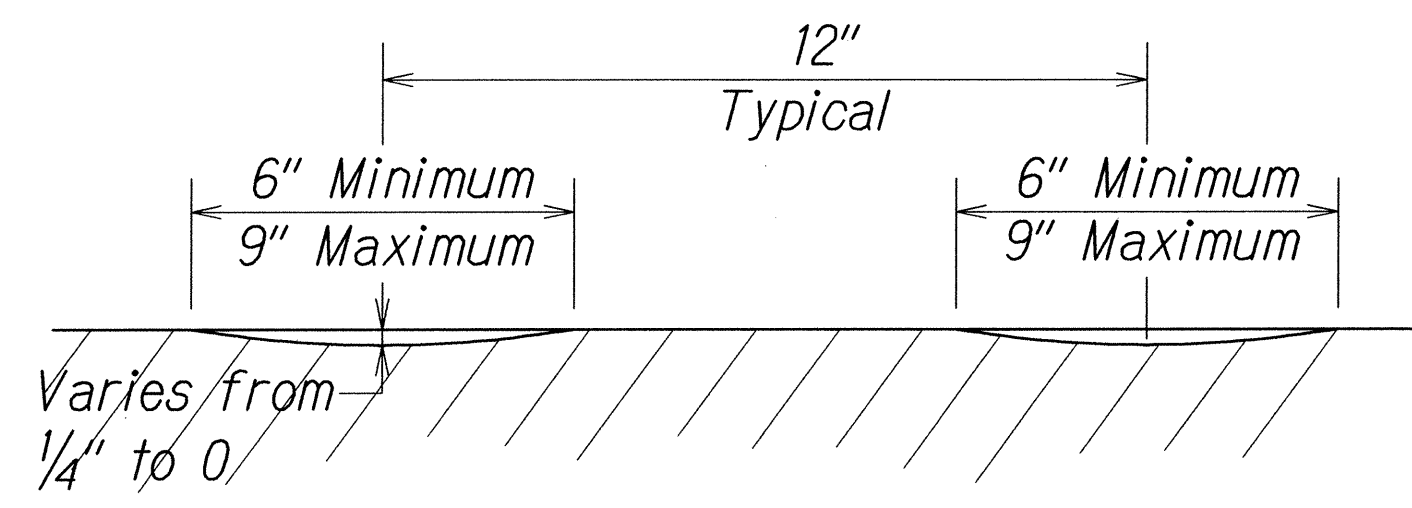
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(008)	2014	22	32



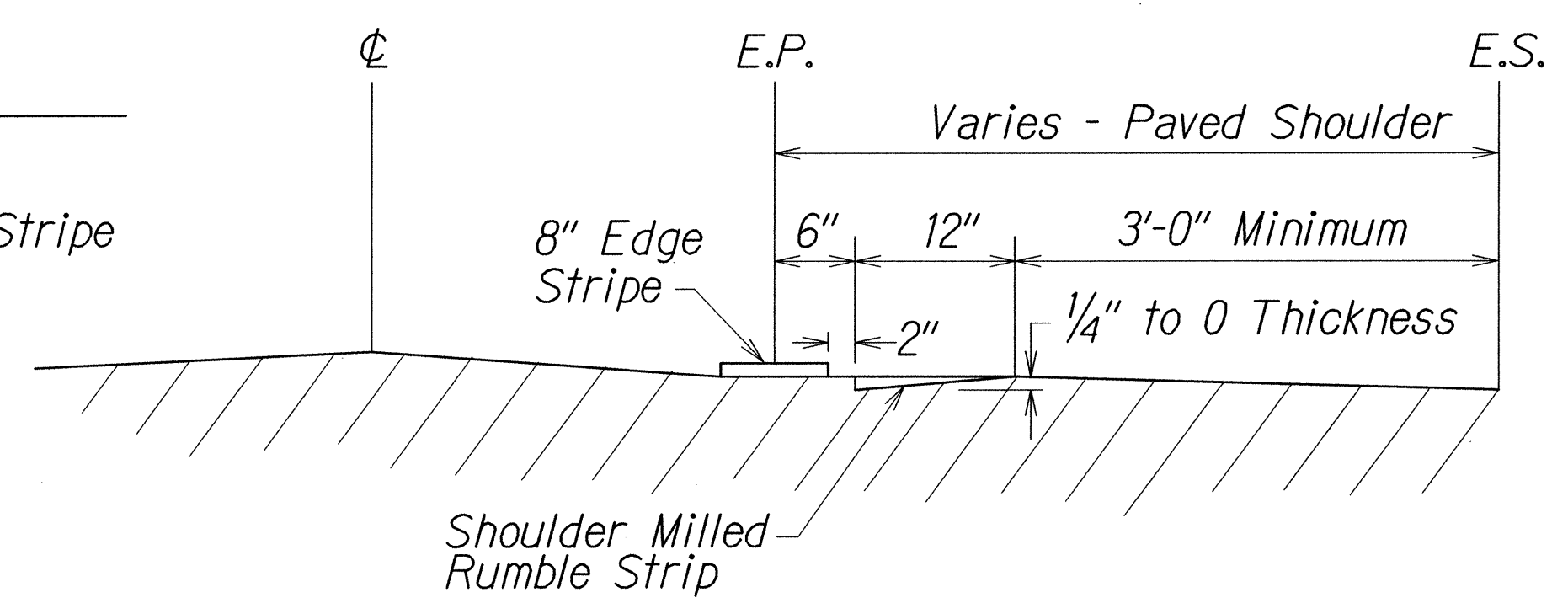
PLAN - SHOULDER MILLED RUMBLE STRIP
Not to Scale



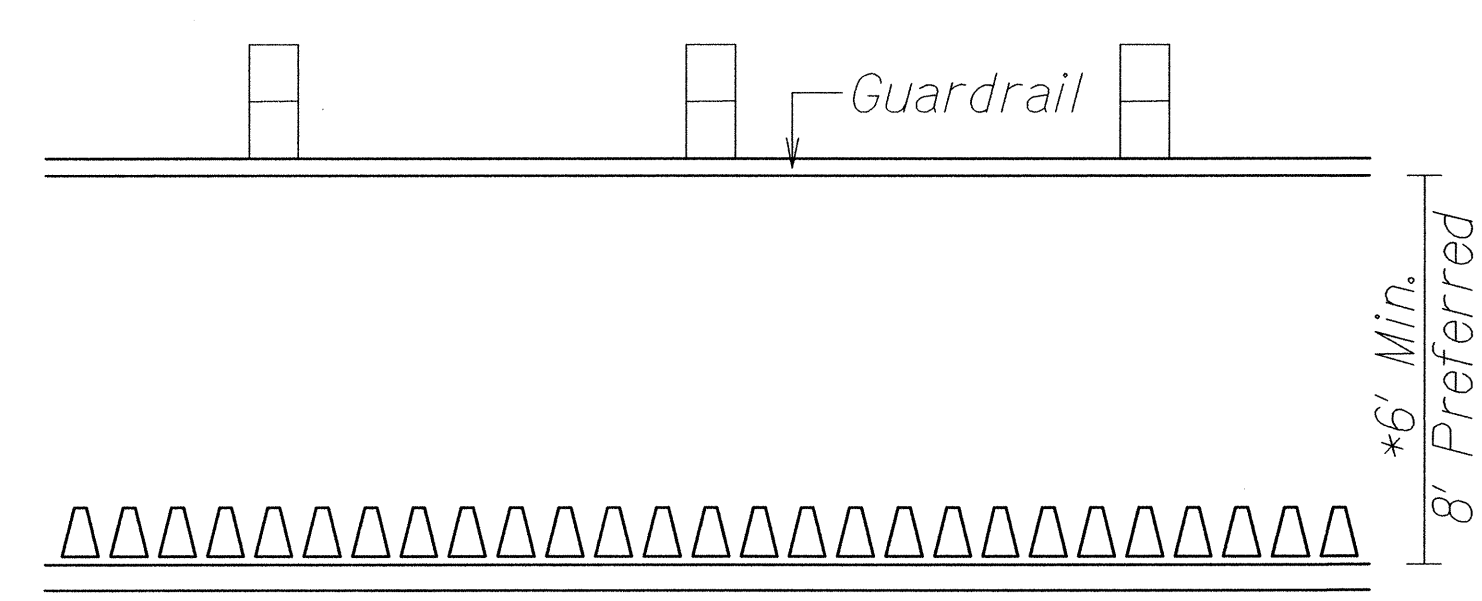
DETAIL - SHOULDER MILLED RUMBLE STRIP
Not to Scale



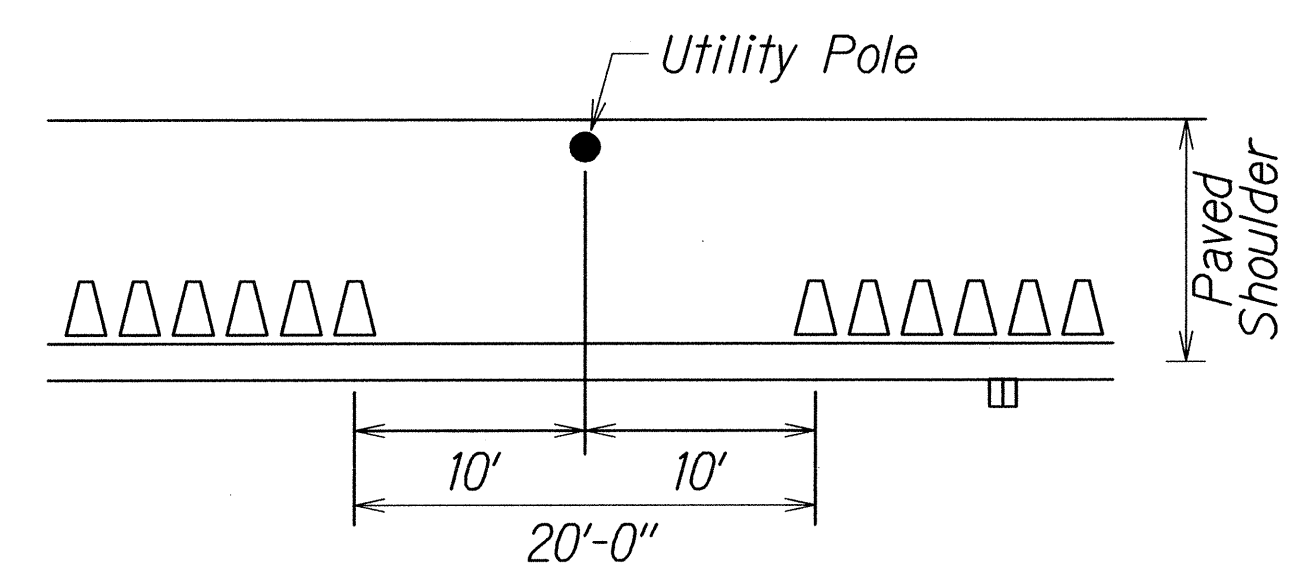
CROSS SECTION - SHOULDER MILLED RUMBLE STRIP
Not to Scale



LONGITUDINAL SECTION - SHOULDER MILLED RUMBLE STRIP
Not to Scale



DETAIL - CONDITION WHERE GUARDRAIL EXISTS
Not to Scale



DETAIL - CONDITION WHERE UTILITY POLE EXISTS
Not to Scale

NOTES:

- Shoulder milled rumble strips shall be installed where the existing condition of the shoulder are 4.5' or more from center of edge stripe.
- 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.
- Raised pavement markers shall be installed on level surface between the rumble strips. Do not install raised pavement markers inside the milled area.
- The construction of the edgeline milled rumble strip and 13-foot gaps shall be paid for under Item No. 615.0300 - Milled Rumble Strip, Shoulder. 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 615.0300 - Milled Rumble Strip, Shoulder.
- Rumble strips shall be installed along all shoulders, except at right turn deceleration and acceleration lanes, as noted on the plans.
- Do not place Type "C" Raised Pavement markers within 2 ft. of the 13 ft. Rumble Strip opening.
- Do not install 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.
- Rumble Strips are to be installed after the edge of pavement stripe and before the installation of the Type "C" raised pavement markers.
- Pre-formed pavement striping tape or hot spray thermoplastic shall be used for solid line markings within the shoulder milled rumble strip area.

*If shoulder width is less than 6', do not install shoulder rumble strip where guardrail exists.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER MILLED RUMBLE STRIP
DETAIL FOR SHOULDER 4.5' OR MORE

RTE 311 MOKULELE HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Kuihelani Highway to Maui Humane Society
Federal-Aid Project No. NH-A311(008)
Scale: As Shown Date: February, 2014

SHEET No. 2 OF 2 SHEETS