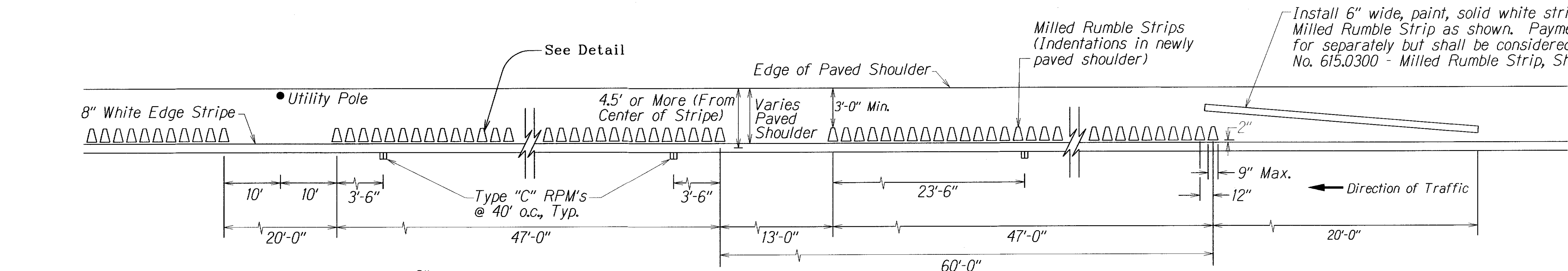
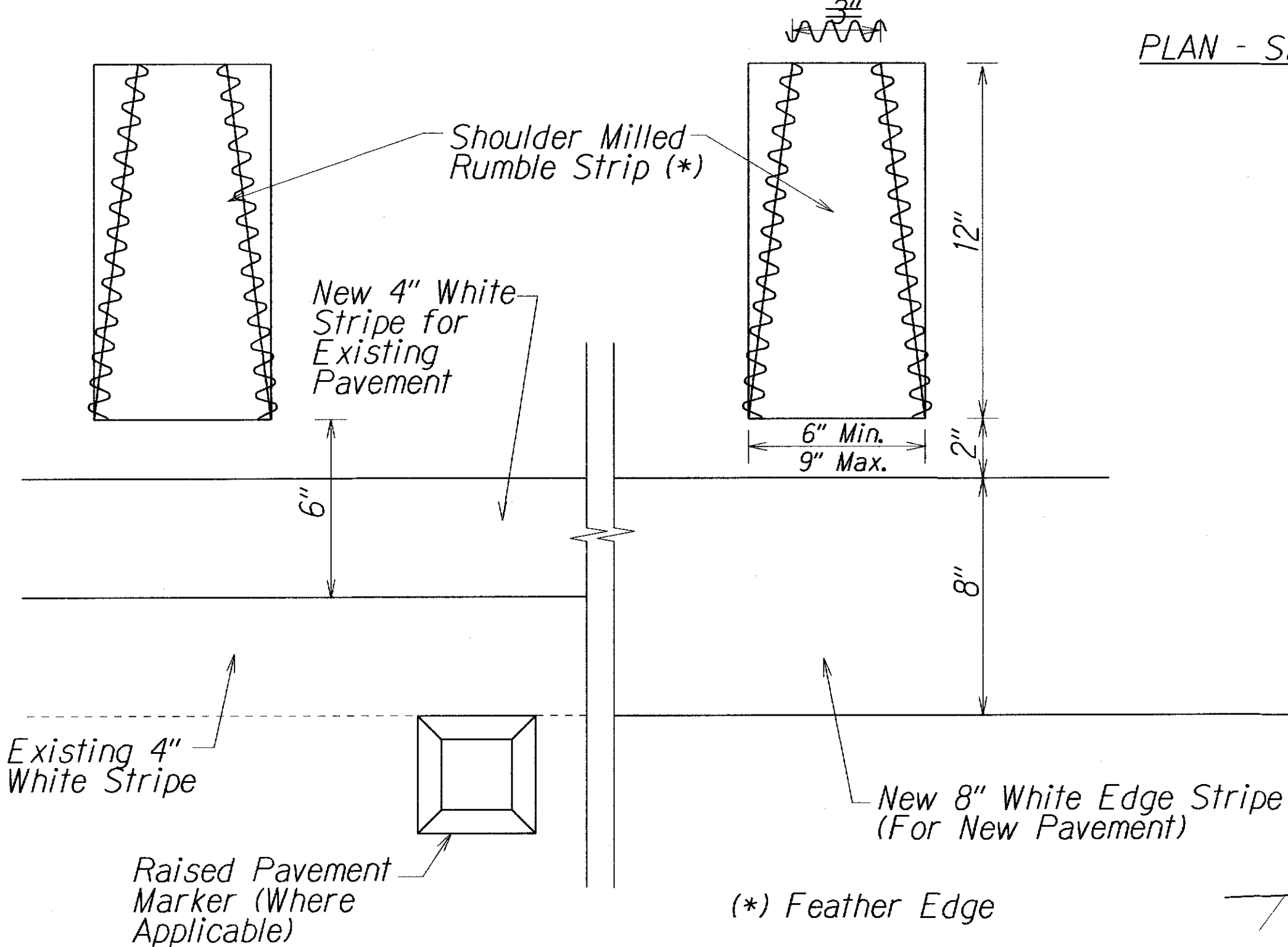


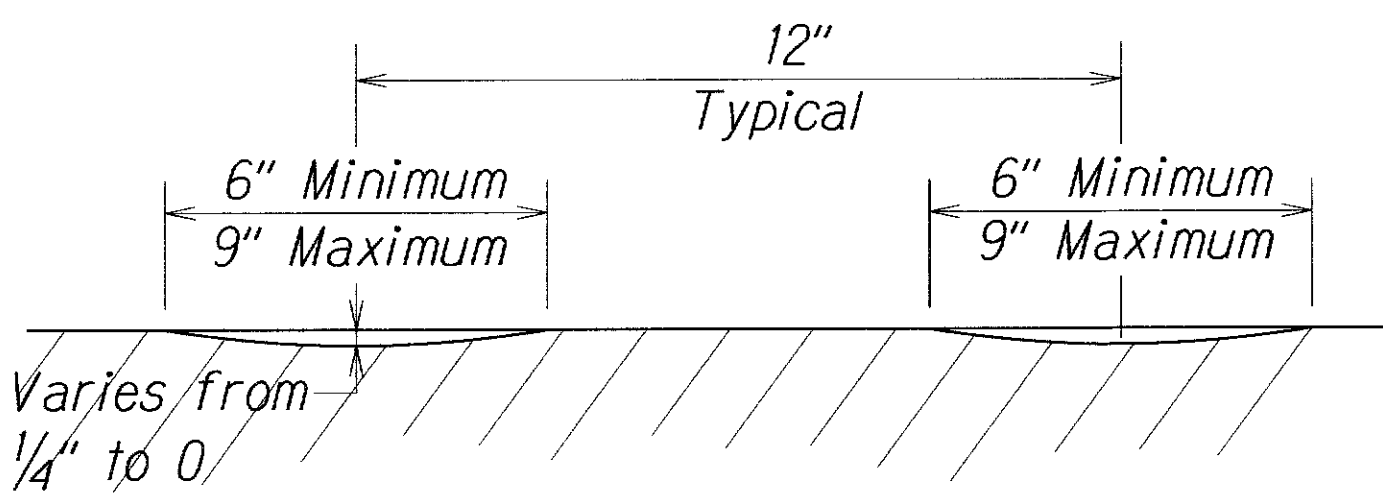
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-0380(013) | 2015 | 29 | 44 |



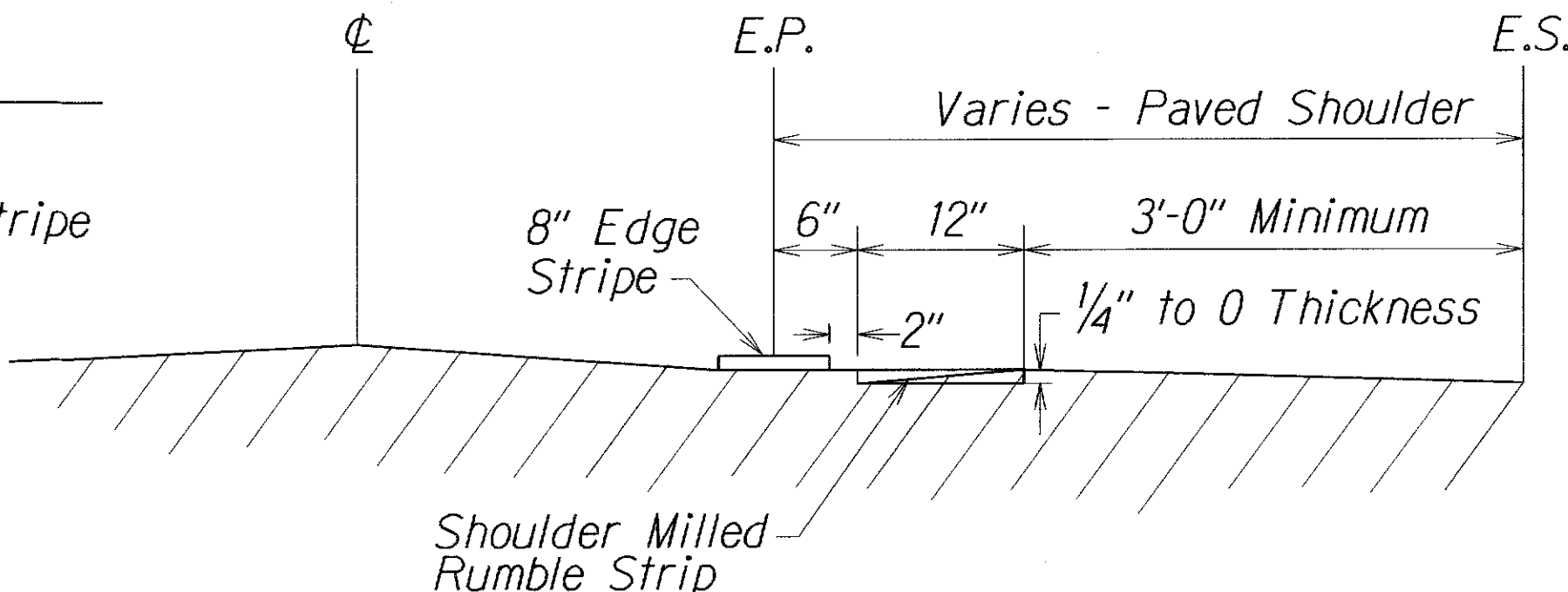
PLAN - SHOULDER MILLED RUMBLE STRIP
Not to Scale



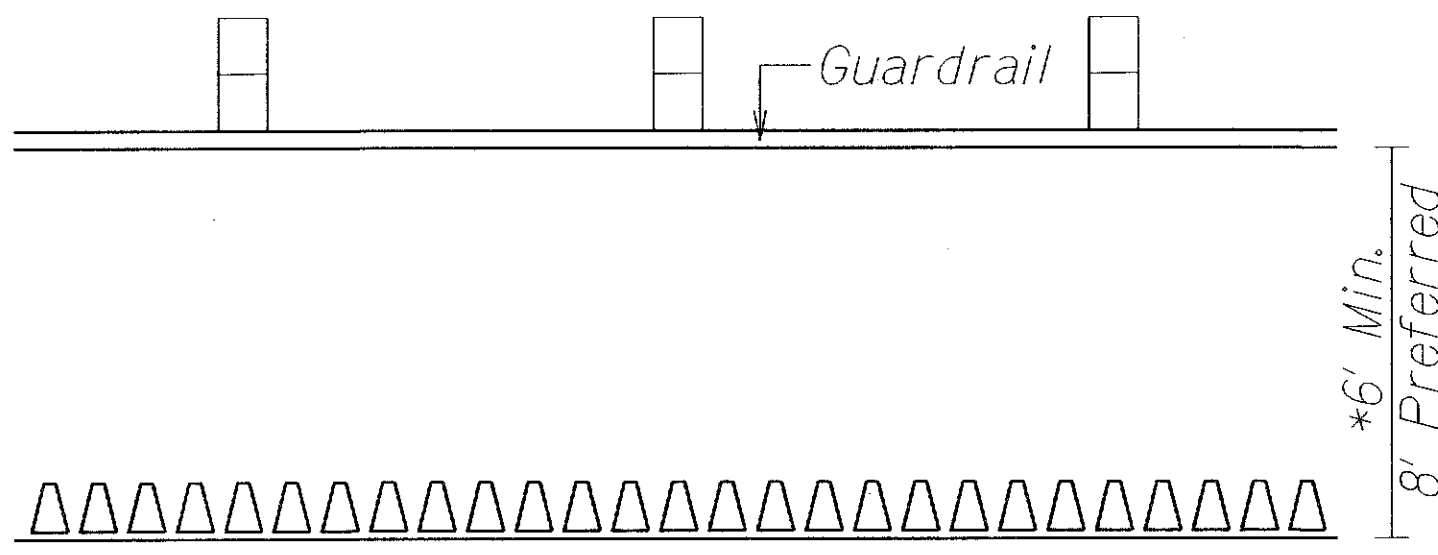
DETAIL - SHOULDER MILLED RUMBLE STRIP
Not to Scale



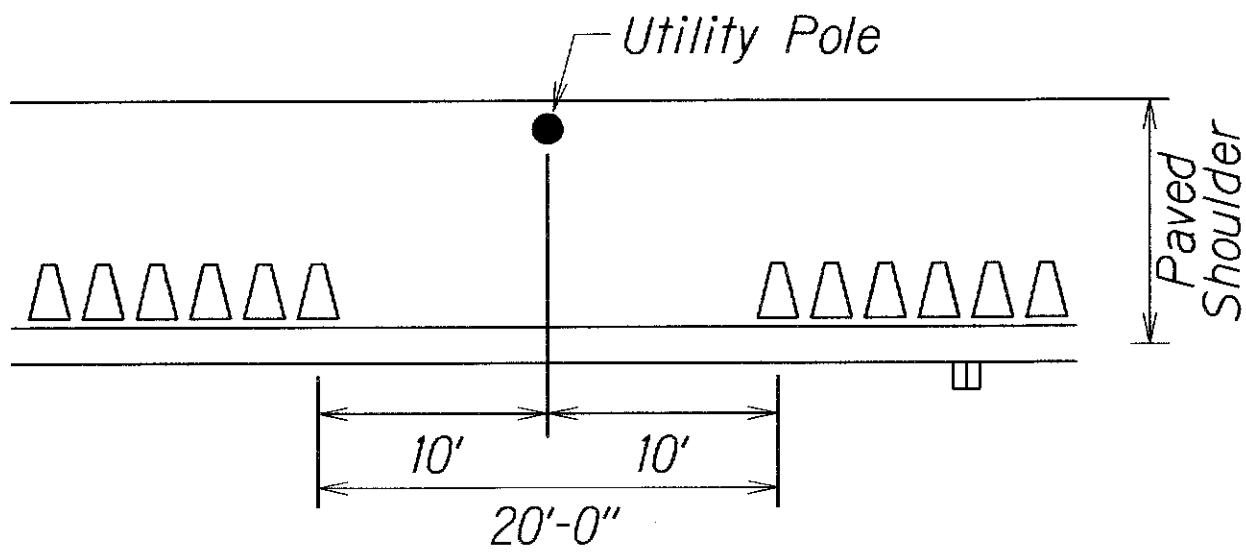
CROSS SECTION - SHOULDER MILLED RUMBLE STRIP
Not to Scale



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.

| | |
|---------------|------|
| ORIGINAL PLAN | DATE |
| DESIGNED BY | DATE |
| CHECKED BY | DATE |
| IN CHARGE | DATE |
| NOTE BOOK | DATE |
| QUANTITIES BY | DATE |
| CHECKED BY | DATE |

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

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER MILLED RUMBLE STRIP
DETAIL FOR SHOULDER 4.5' OR MORE
KUIHELANI HIGHWAY RESURFACING
Honoapiilani Highway to Puunene Avenue
Federal-Aid Project No. NH-0380(013)

Scale: As Shown
Date: April, 2015

SHEET No. 2 OF 2 SHEETS