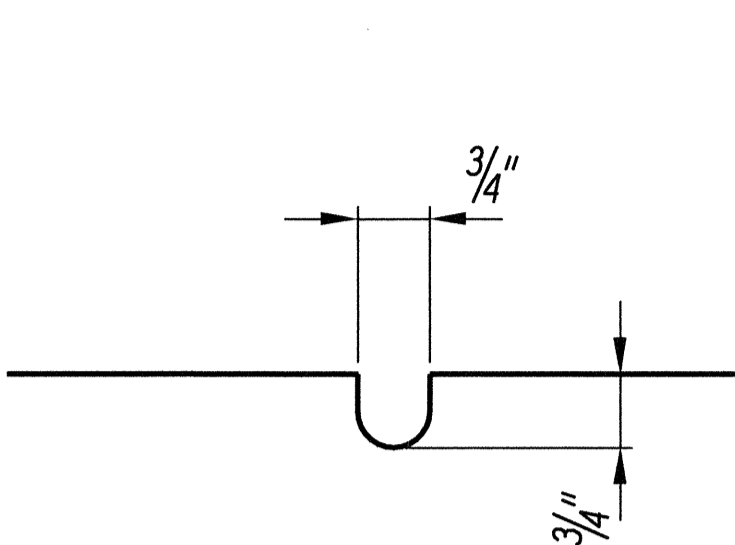


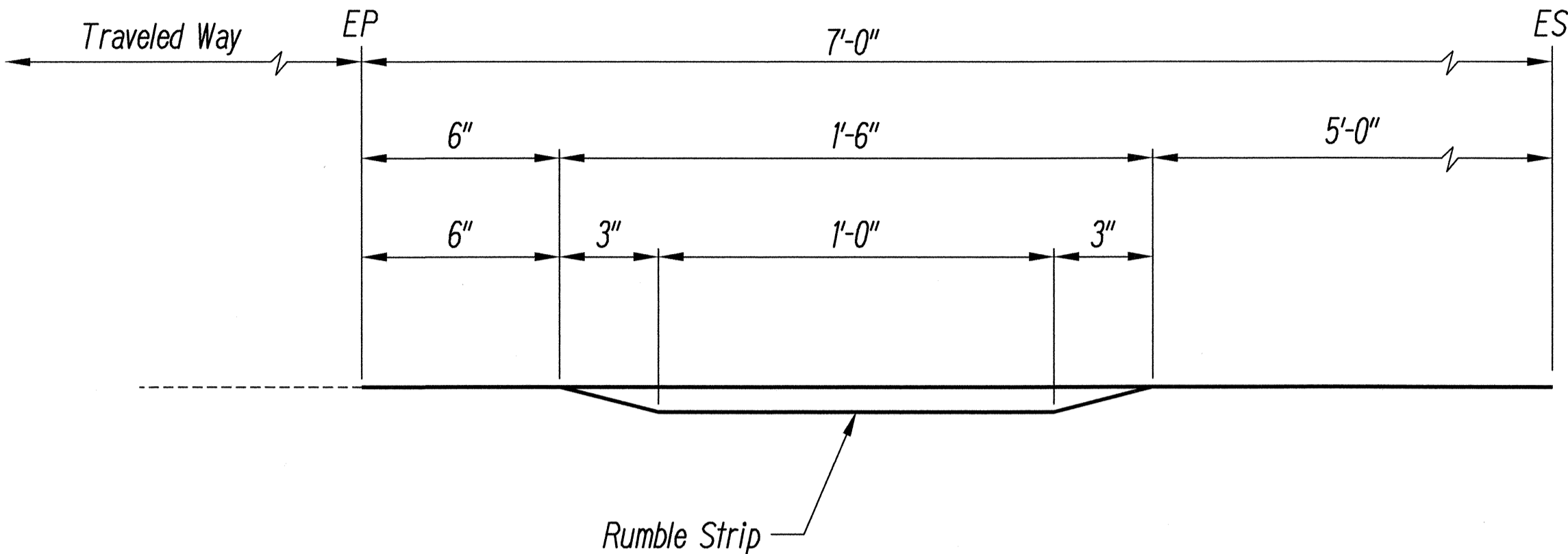
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 270A-01-99M | 1999 | | 25 |

Notes:

- Rumble Strip depressions must be placed after Breakdown Rolling, with Finish Rolling done after Rumble Strip Rolling but not on depressions unless otherwise directed by the Engineer.
- Rolling of Rumble Strip depressions shall be done when temperature of asphalt is about 180° F (when fines just stick to the palm of hand). Discontinue rolling if mat begins to tear. The rolling of depressions or the stopping of rolling process shall be done in accordance to the preceding requirements unless otherwise directed by the Engineer.
- Priority is to complete full Breakdown Rolling in order to achieve the required destiny. Full depth depression is a secondary consideration unless other directed by the Engineer.
- The method of constructing the Rumble Strip depressions shall be submitted to the Engineer for acceptance prior to the actual work.
- The construction of the Shoulder Rumble Strip including the fabrication of the grooving apparatus and 6" white stripe, shall be considered incidental to Asphalt Concrete Pavement, Mix No. V and will not be paid for separately.
- Extent of Rumble Strip shall be both shoulders on Kawaihae Road.



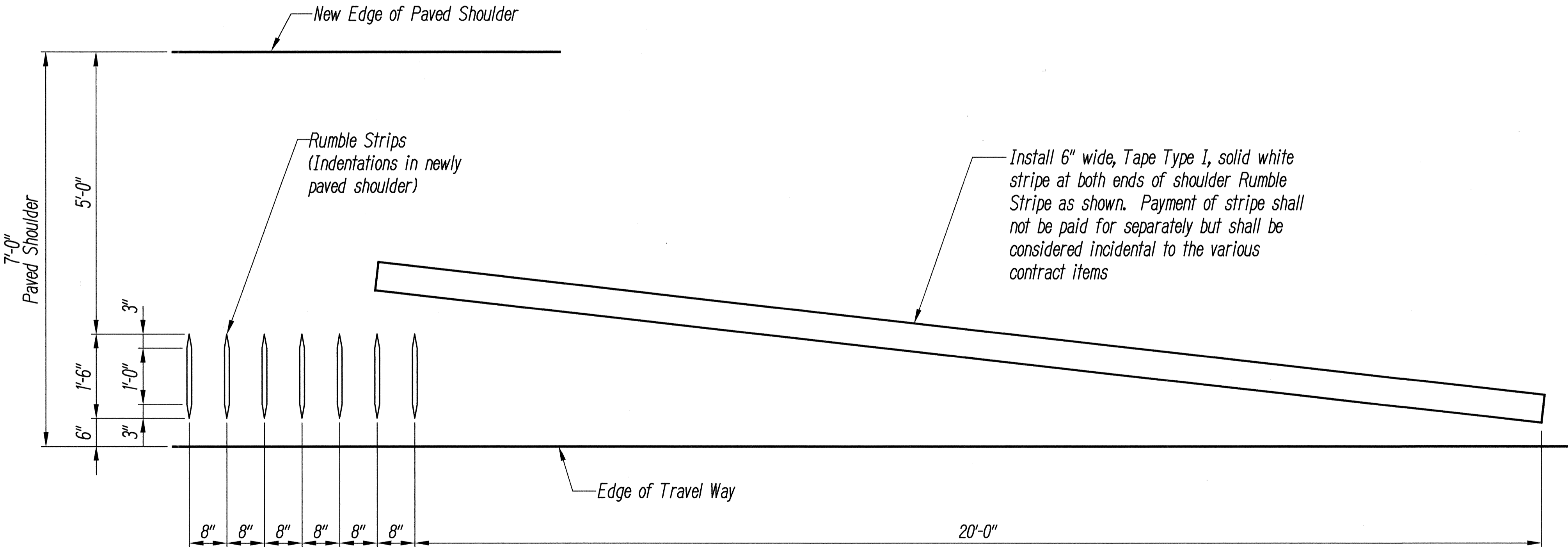
SECTION - RUMBLE STRIP
Scale: 6"=1'-0"



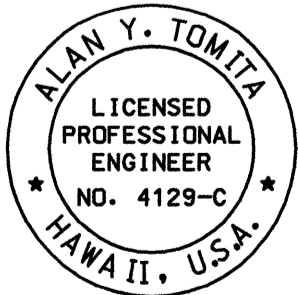
LONGITUDINAL SECTION - RUMBLE STRIP
Scale: 3"=1'-0"

Note:

Shoulder Rumble Strips should not be used unless approximately 5 feet of clear shoulder width for bicycle use is available between the Rumble Strips and the outer edge of the paved shoulder.



PLAN
Scale: 3/4"=1'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER RUMBLE STRIP
DETAILS & NOTES
KAWAIIHAE ROAD RESURFACING
Vicinity of Kawaihae Harbor to
Queen Kaahumanu Hwy.
Project No. 270A-01-99M
Scale: As Shown Date: September, 1999

SHEET No. 1 OF 1 SHEETS

| | | |
|------------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | |
| | DESIGNED BY | |
| | CHECKED BY | |
| | CHECKED BY | |

ikawomst1.dgn