

ORIGINAL PLAN	No. _____	SURVEY PLOTTED BY _____				DATE _____
		DRAWN BY _____				" _____
NOTE BOOK	No. _____	DESIGNED BY _____				" _____
		QUANTITIES BY _____				" _____
		CHECKED BY _____				" _____
						" _____

SIGNING AND PAVEMENT MARKING 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 and striping 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 or directed by the Engineer 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.
- Removal of existing delineators and posts, as directed by the Engineer or shown on the plans, shall be considered incidental to the various signing items.
- 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.
- Backing for all new regulatory and warning signs shall not be spliced.
- All sign panels shall conform to Section 630 of the Special Provisions and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
- State route marker symbols, borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
- All new and relocated signs and markers installed on pipe post or light standards are to be mounted with band brackets and steel braces.
- The contractor shall erect at the beginning and at the end of the project, work zone sign assemblies as indicated on the plans or as directed by the engineer. The work zone sign assemblies shall be maintained for the duration of the project. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Work Zone Traffic Control. The work zone signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Hawaii District Office baseyard in Hilo, or as directed by the Engineer, at the end of the project.
- Removal and reinstalling existing street name signs on regulatory and warning sign posts shall not be paid for separately but shall be considered incidental to the various signing items.

SIGNING AND PAVEMENT MARKING NOTES (CONT.)

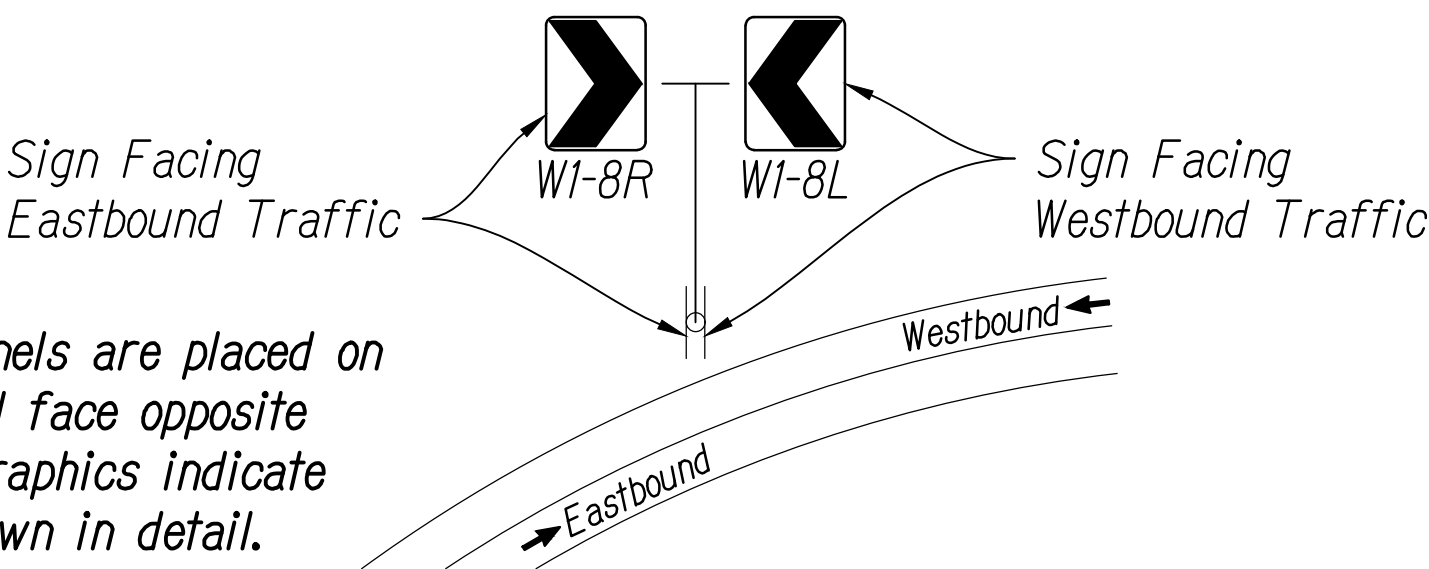
- All sign posts for new and relocated signs on post(s) shall be new and with square tube posts, unless otherwise specified. Provide OM-2V reflector markers for each new sign post. The cost of OM-2V reflector markers on new and relocated sign posts shall be considered incidental to the various items of Section 631.
- Except where installed behind guardrails, all steel sign posts within the clear zone defined by the AASHTO Roadside Design Guide shall be painted with yellow reflective paint. This requirement is in addition to any reflector marker or marking called out in the contract.
- Thermoplastic Tape may be installed in limited and short sections of lane, centerline, longitudinal, median, guide and edge striping for detail or touch up work.
- Intermediate Milepost Markers (D10-2A) shall be installed with a Highway Route Number Plate (D10-7) where specified on plans and be bi-directional. Signs shall be installed per Standard Plan TE-16.

SIGN KEY:

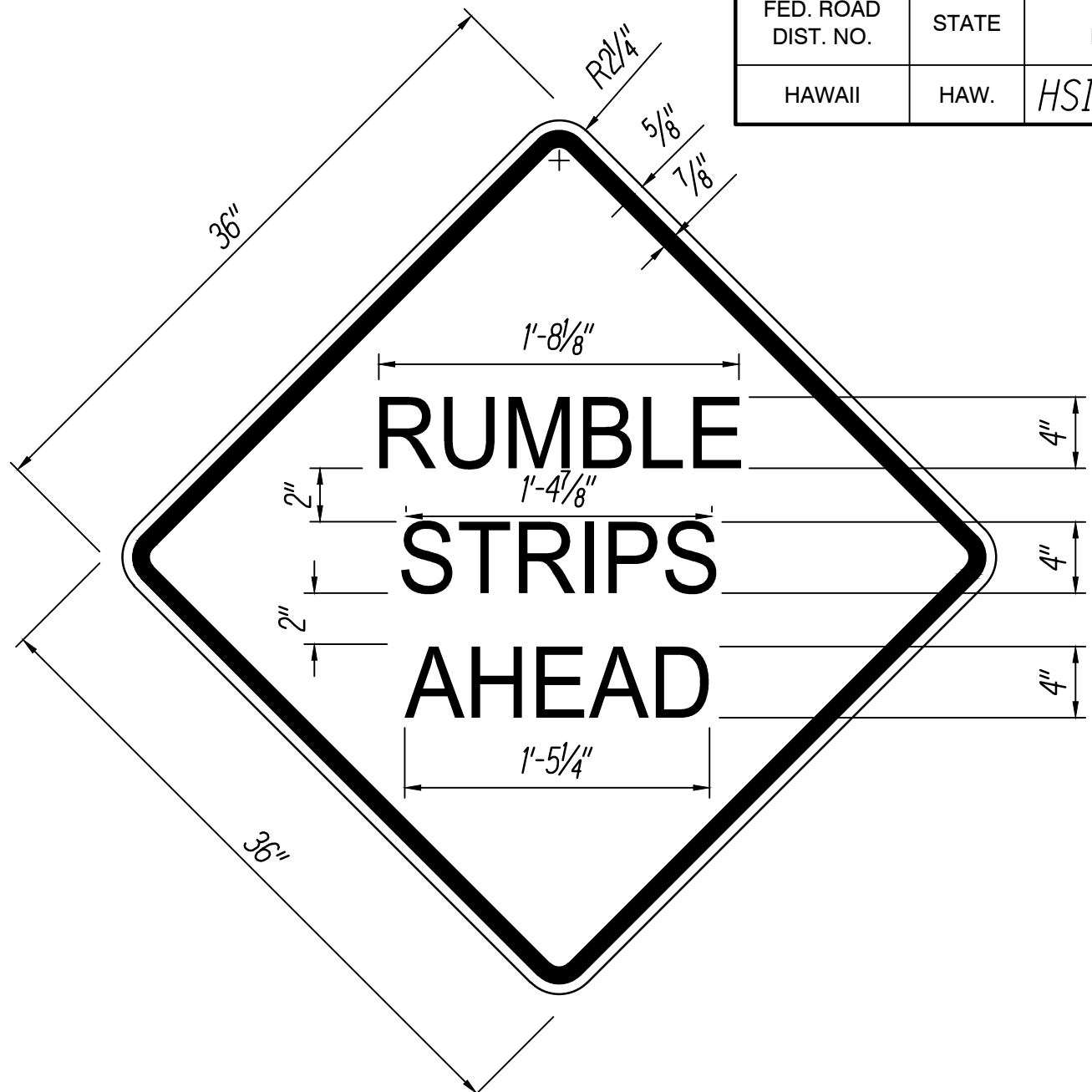
- Existing Sign and Post to Remain
- Remove Existing Sign and Post
- Install New Sign w/Post
- Remove Existing Sign and Post and Install New Sign w/Post
- Relocate Existing Sign and Post

Note:

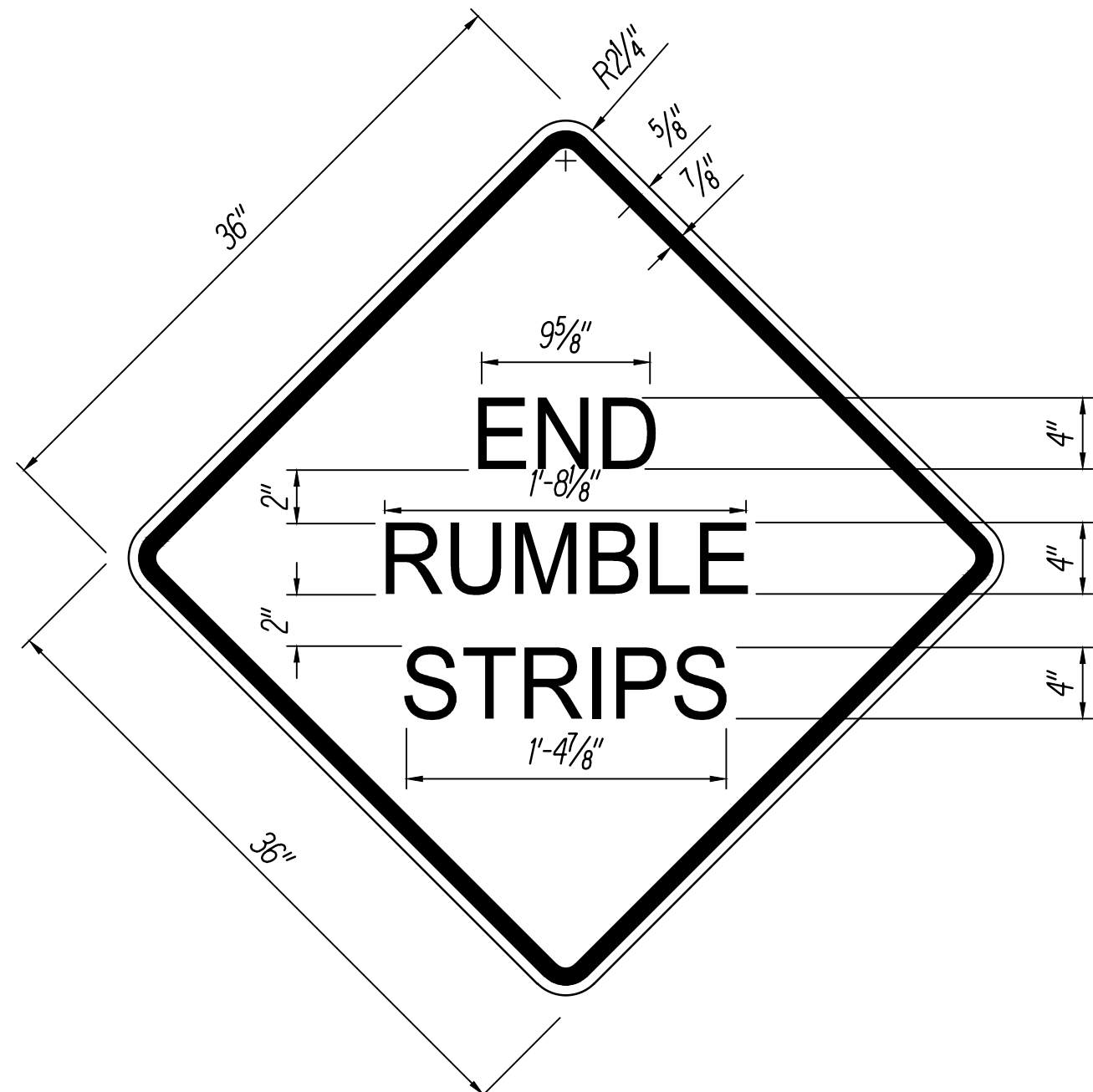
When two sign panels are placed on the same post and face opposite directions, sign graphics indicate orientation as shown in detail.



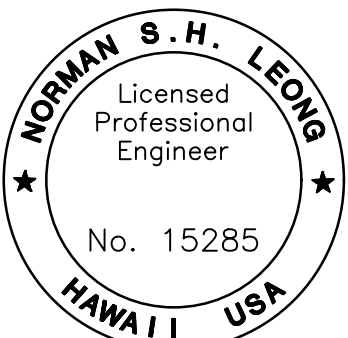
DETAIL - DUAL SIDED SIGNS



CUSTOM SIGN 1
'RUMBLE STRIPS AHEAD'



CUSTOM SIGN 2
'END RUMBLE STRIPS'



This work was prepared by me or under my supervision and construction of this project will be under my observation.

Norman Leong
Expiration Date of License 4/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & STRIPING
NOTES AND DETAILS
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)
Scale: NTS Date: July 2022