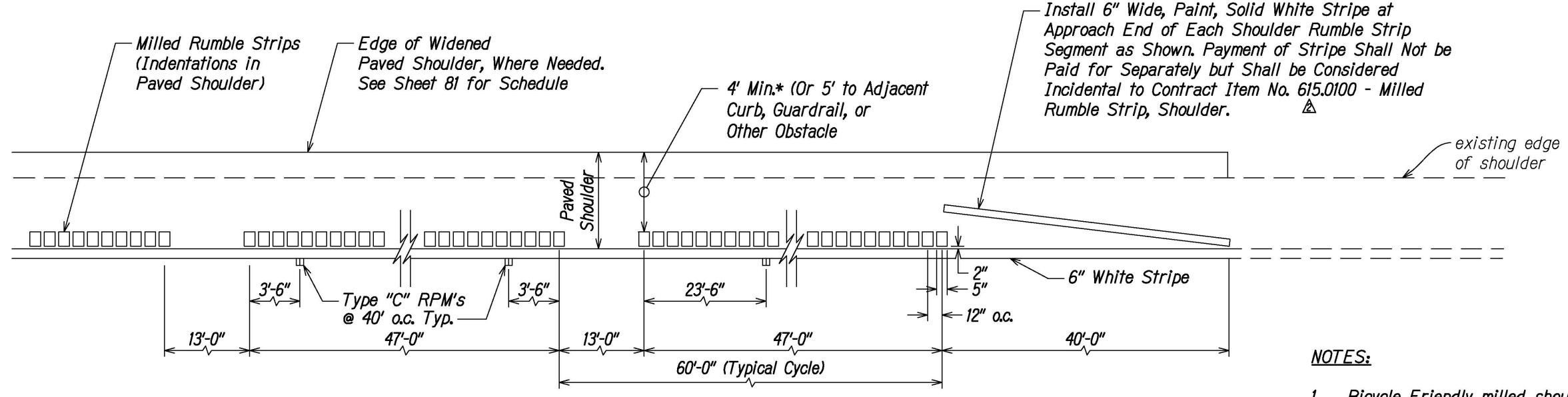
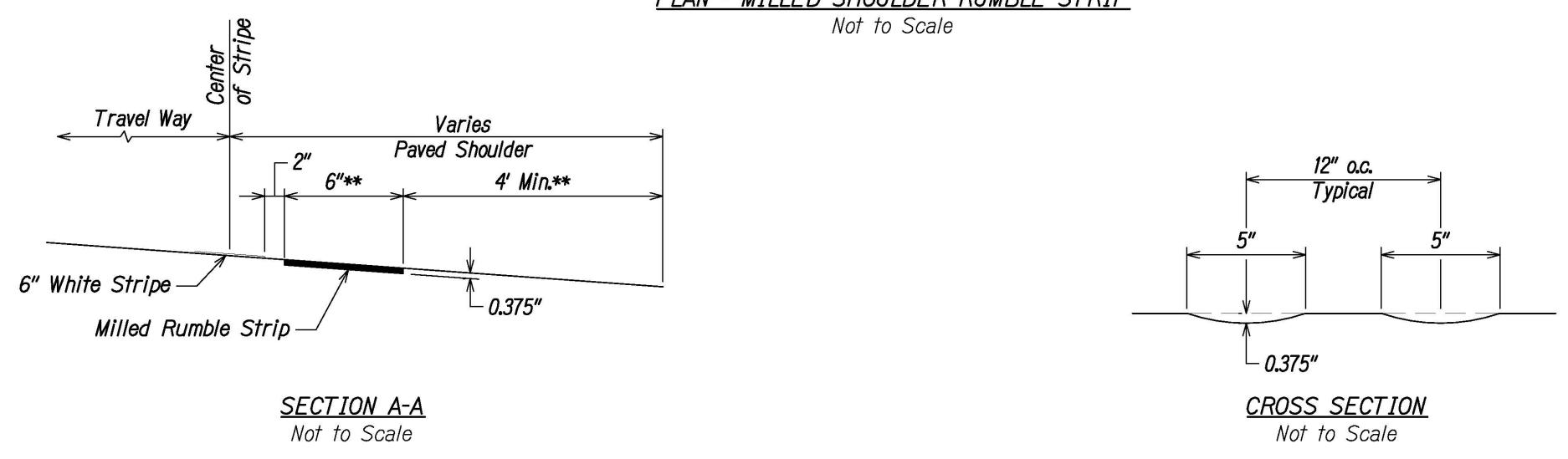
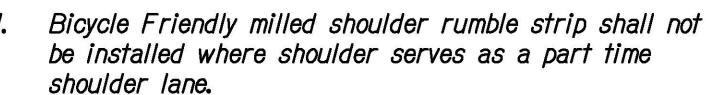
FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	ADD. 83	114



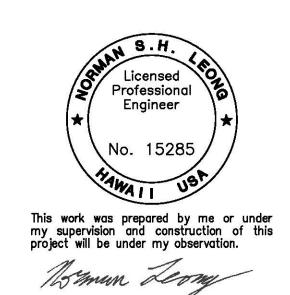
PLAN - MILLED SHOULDER RUMBLE STRIP

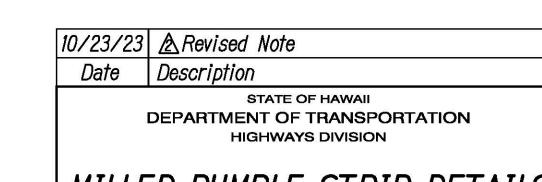


SHOULDER RUMBLE STRIPS



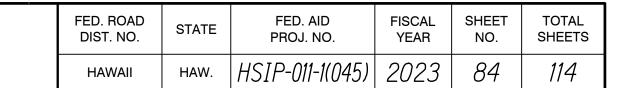
- \* 2. Bicycle Friendly milled shoulder rumble strip should not be used unless 4 feet of clear shoulder width for bicycle use is available between the rumble strips and the outer edge of the paved shoulder.
- \*\* 3. Length of rumble strip reduced from 12" to 6" minimum to meet clearance requirements. Designer has coordinated with HWY-TD for milled shoulder rumble strip design to be less than the typical 12" dimension.

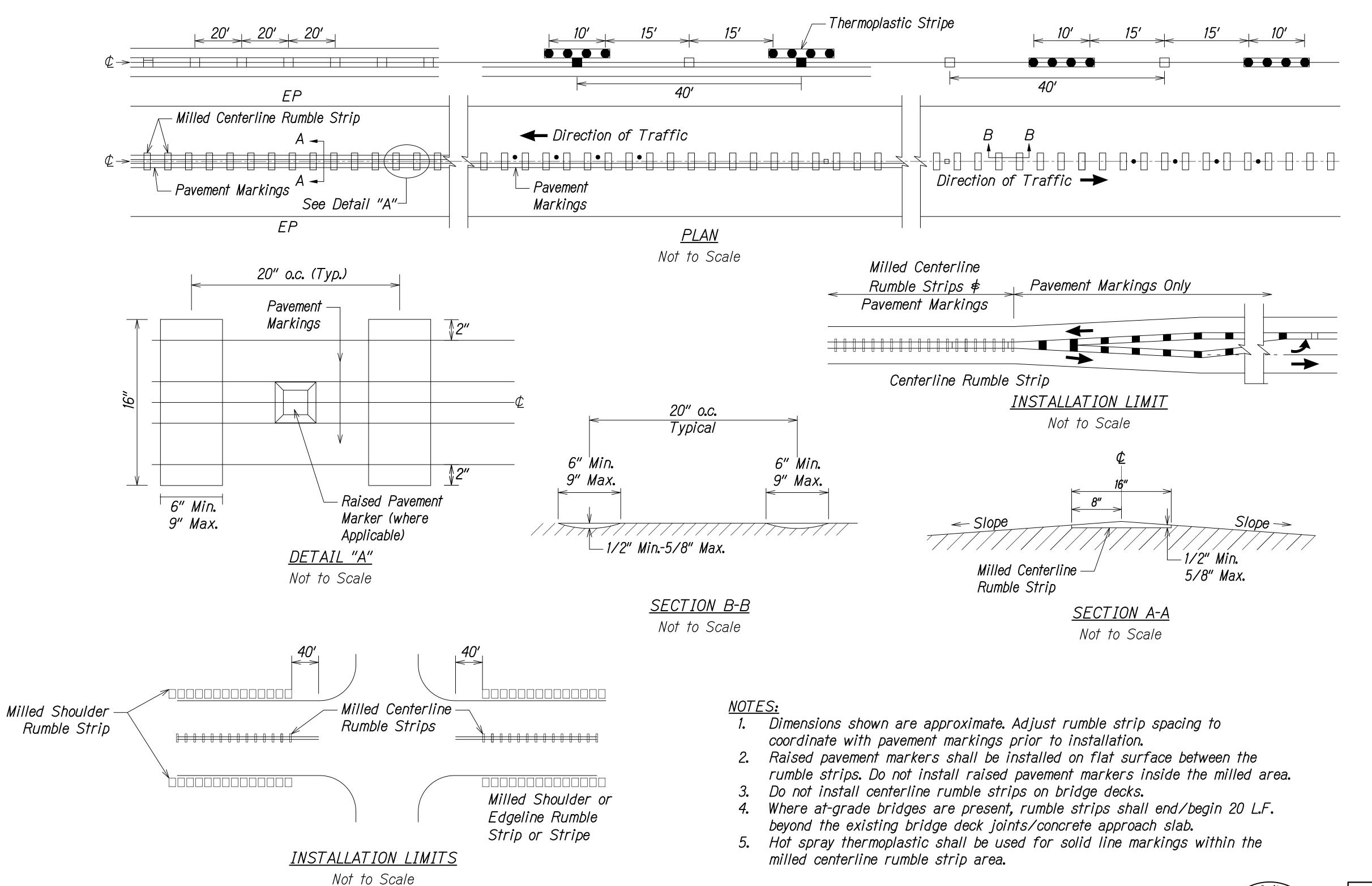




## MILLED RUMBLE STRIP DETAILS

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: NTS
Date: September 2023





## MILLED RUMBLE STRIPS - CENTERLINE DETAILS



**DEPARTMENT OF TRANSPORTATION** HIGHWAYS DIVISION

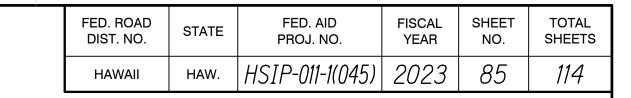
## MILLED RUMBLE STRIP DETAILS

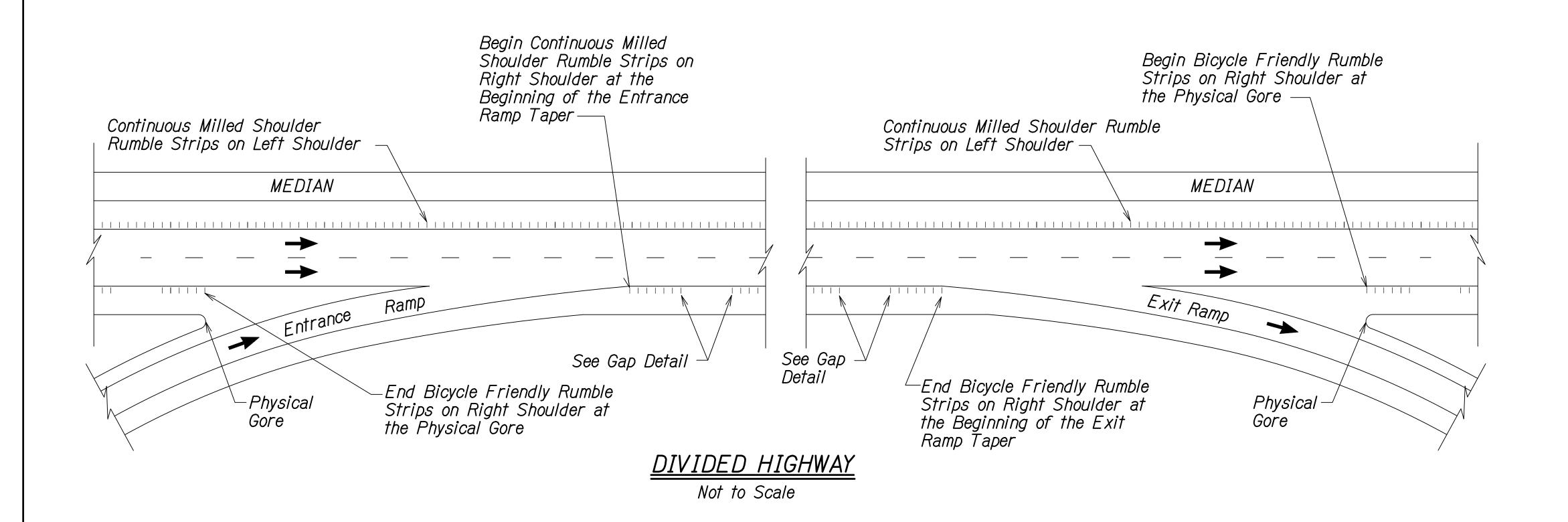
STATE OF HAWAII

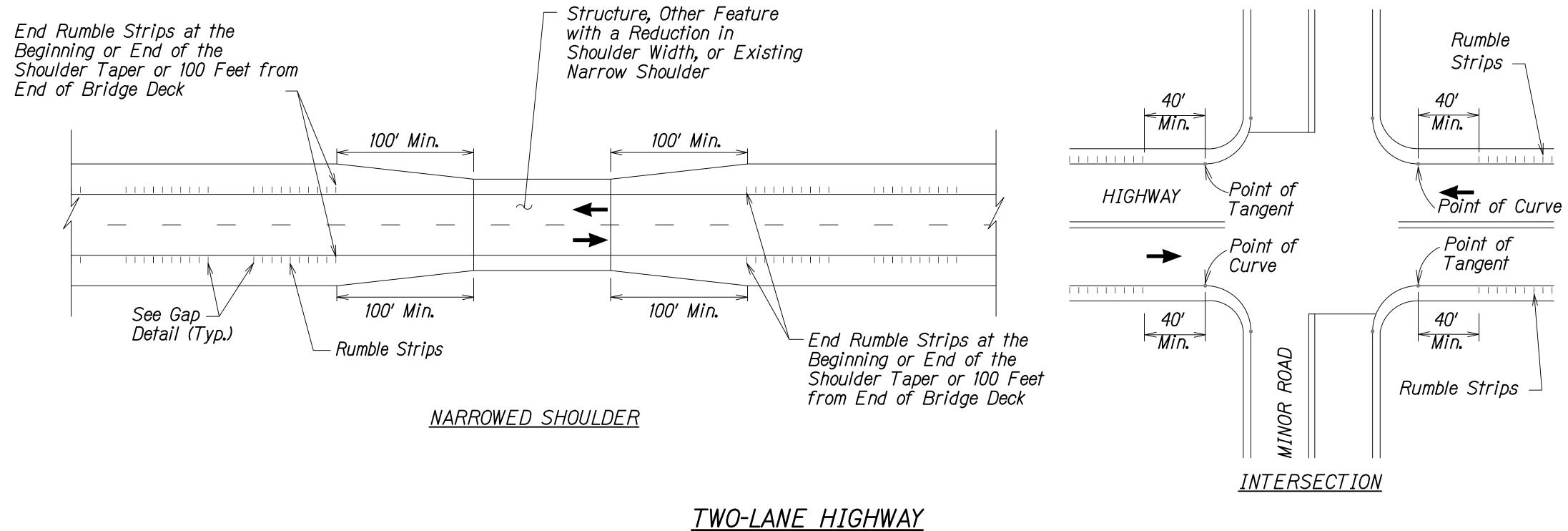
MAMALAHOA HIGHWAY SAFETY IMPROVEMENTS Vicinity of Haleili Street and Bruner Road Federal-Aid Project No. HSIP-011-1(045) Scale: NTS Date: September 2023

> OF 3 SHEETS SHEET No. 2

84







Not to Scale

Licensed Professional Engineer This work was prepared by me or under my supervision and construction of this project will be under my observation. Norman Leony

Expiration Date of License

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

## MILLED RUMBLE STRIP DETAILS

MAMALAHOA HIGHWAY SAFETY IMPROVEMENTS Vicinity of Haleili Street and Bruner Road

Federal-Aid Project No. HSIP-011-1(045) Scale: NTS Date: September 2023

> OF 3 SHEETS SHEET No. 3