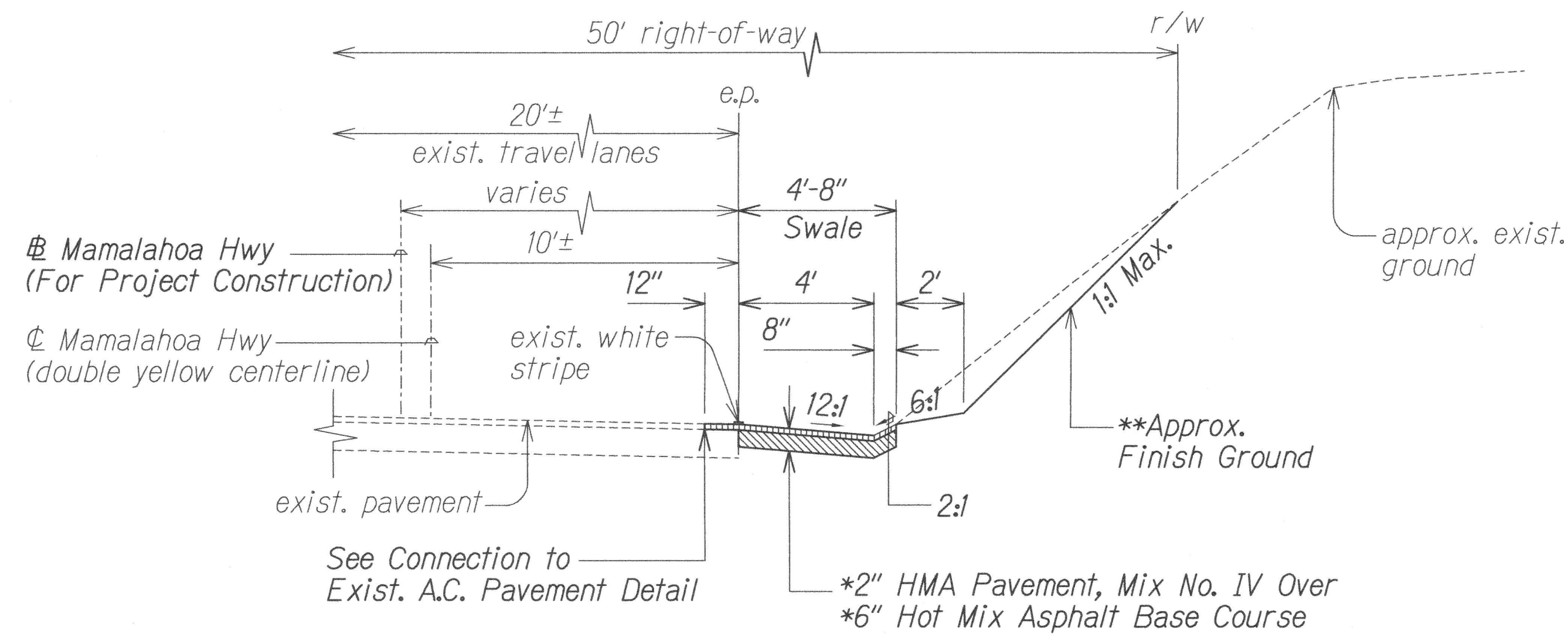


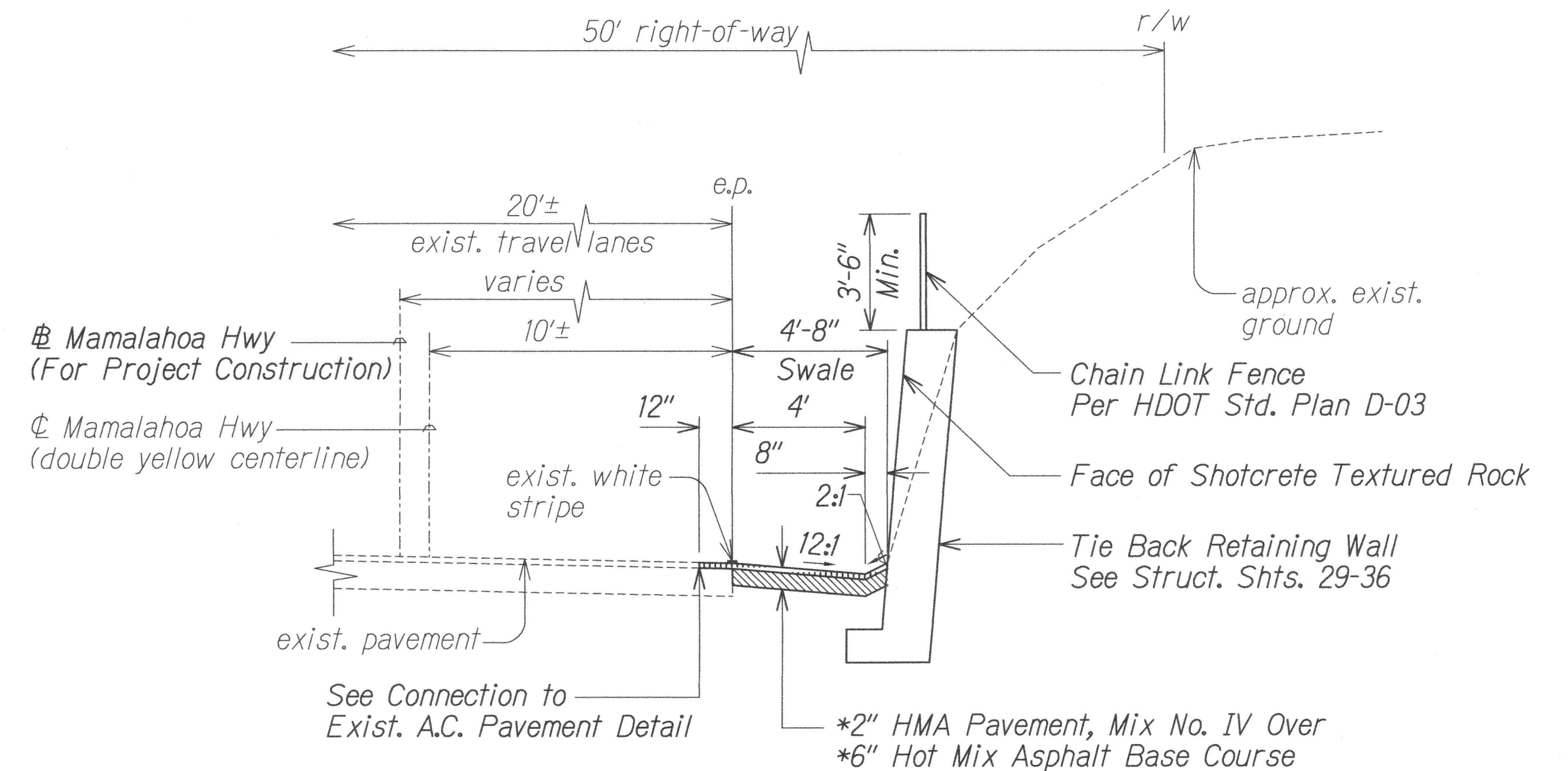
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0190(016)	2016	7	36



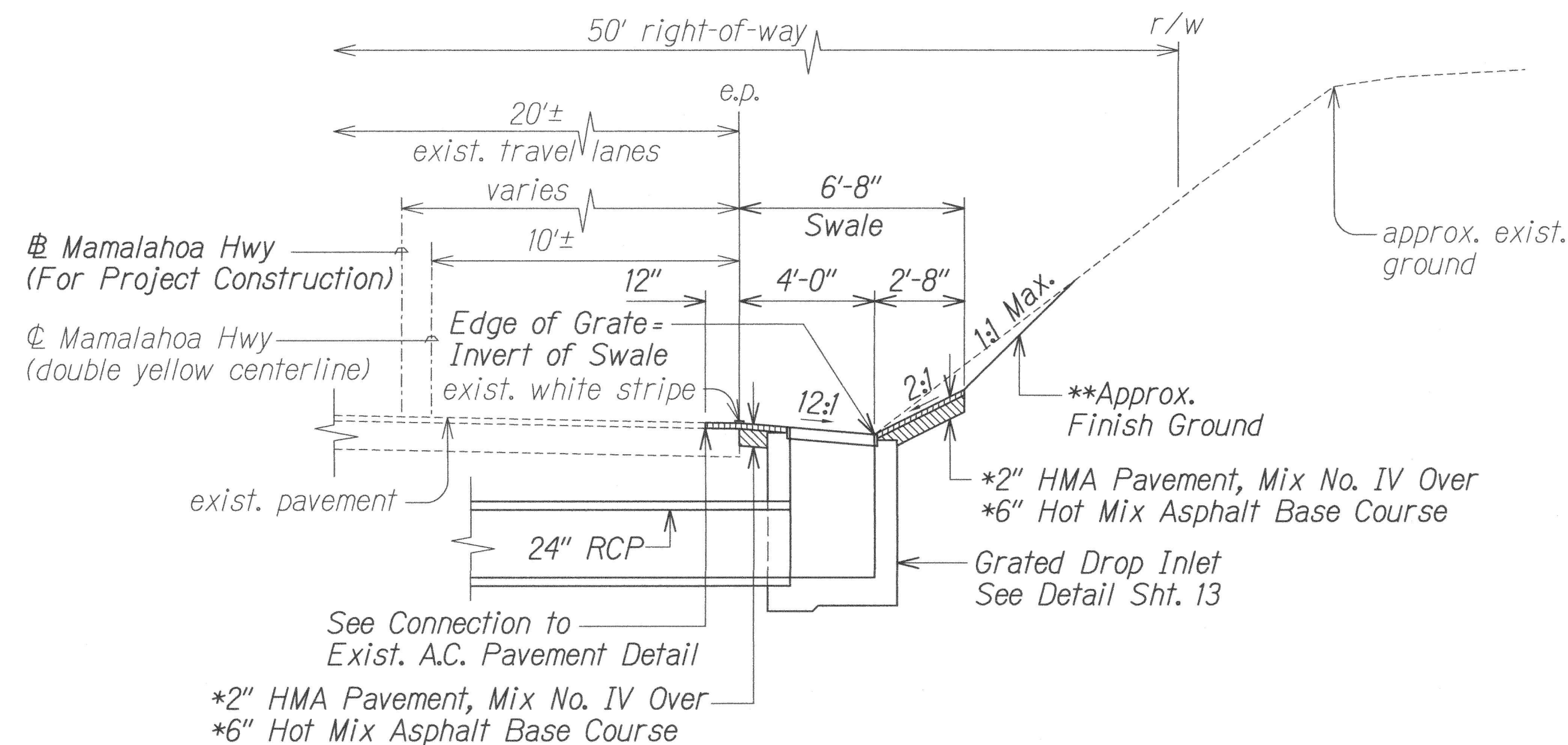
*Minimum or match existing.
**Remove loose rocks to avoid rock fall potential dangers.

SECTION AT SWALE

Not to Scale



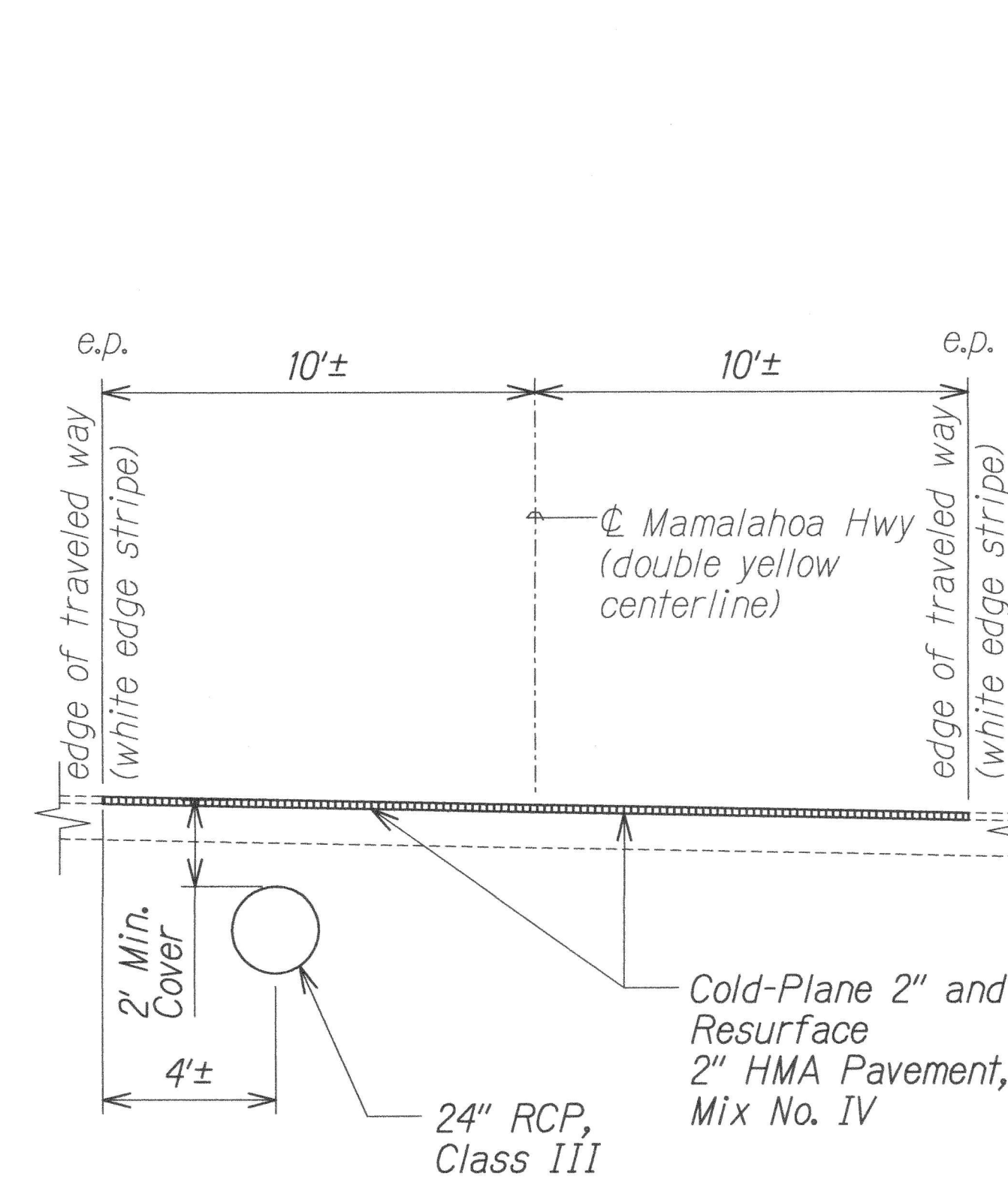
*Minimum or match existing
SECTION AT RETAINING WALL
Not to Scale



*Minimum or match existing.
**Remove loose rocks to avoid rock fall potential dangers.

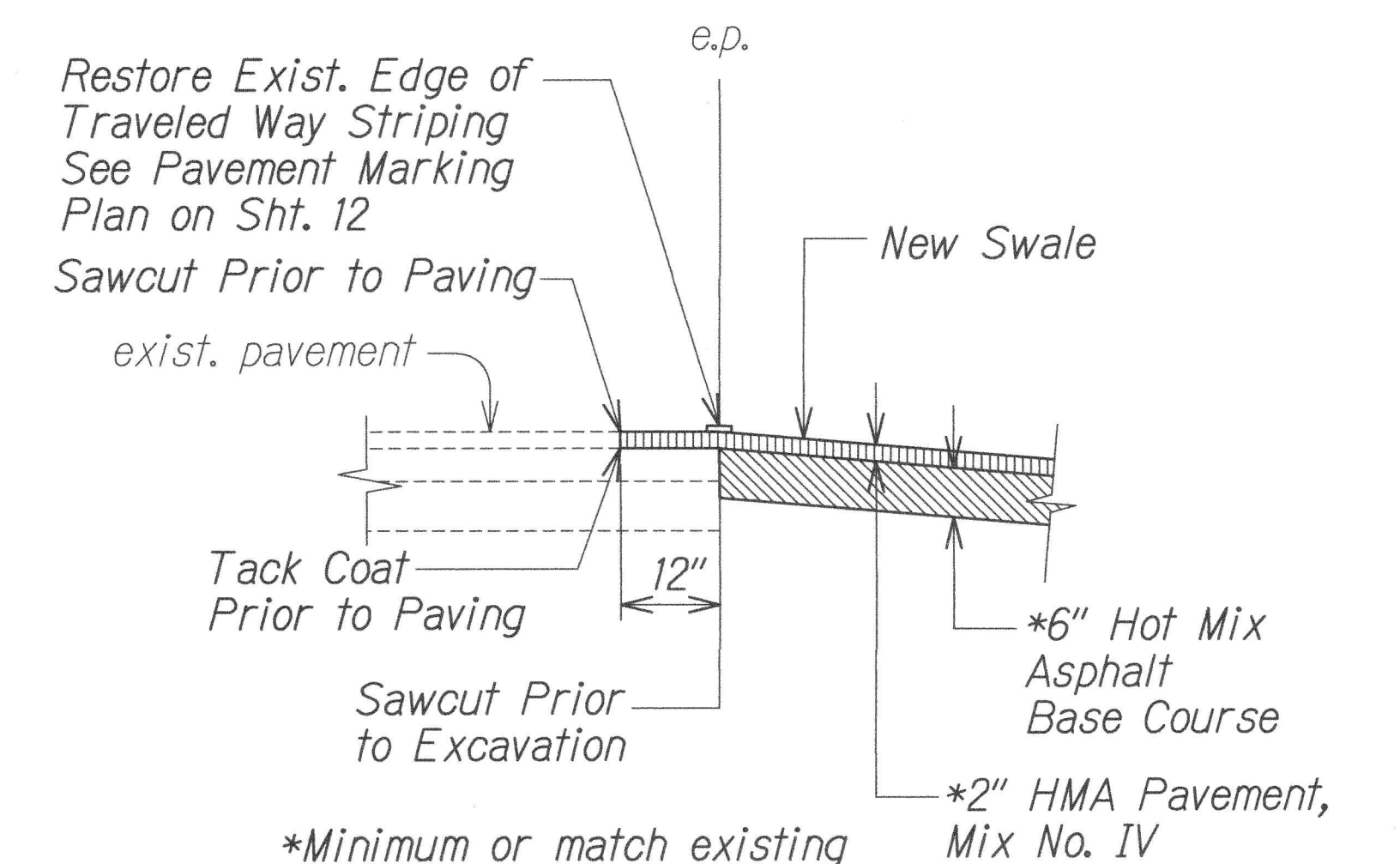
SECTION AT GRATED DROP INLET

Not to Scale



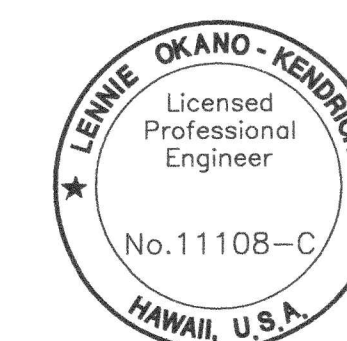
SECTION AT PIPE LOCATIONS

Not to Scale



CONNECTION TO EXISTING A.C. PAVEMENT DETAIL

Not to Scale



This work was prepared by me or under my supervision.
Lennie Okano-Kendrick
Expiration Date of License 4/18

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
ROADWAY SWALE SECTIONS & DETAILS
MAMALAHOA HIGHWAY
DRAINAGE IMPROVEMENTS
Vicinity of Puuwaawaa Ranch Road
Federal-Aid Project No. STP-0190(016)
Scale: Not to Scale Date: April 2016
SHEET No. 1 OF 1 SHEETS