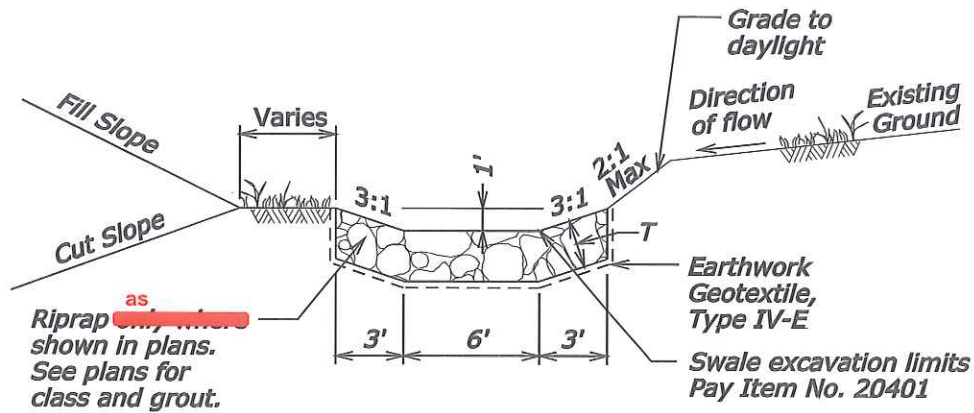
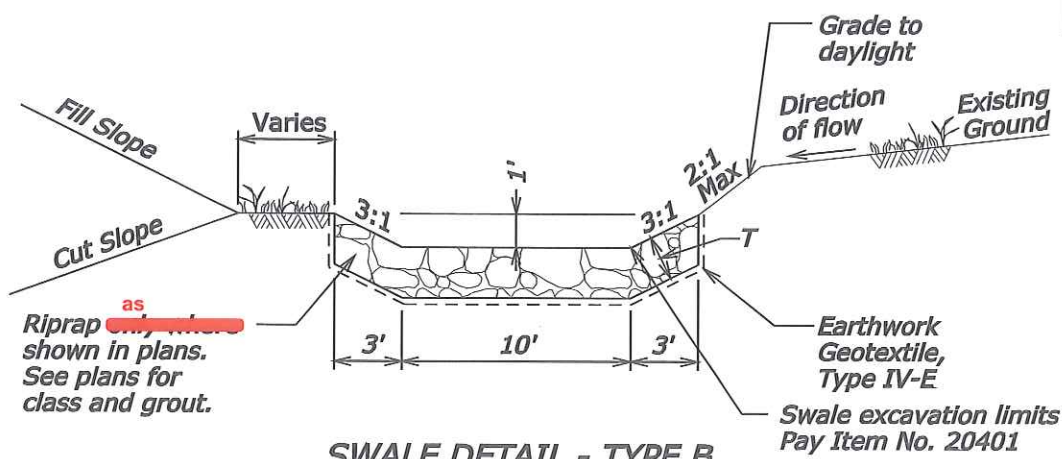


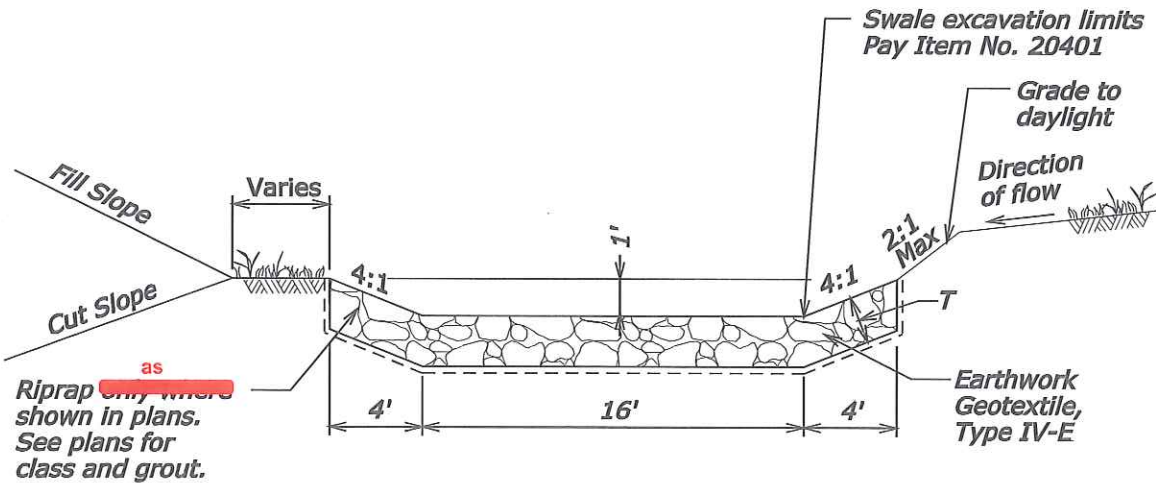
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(6)	G12	G28



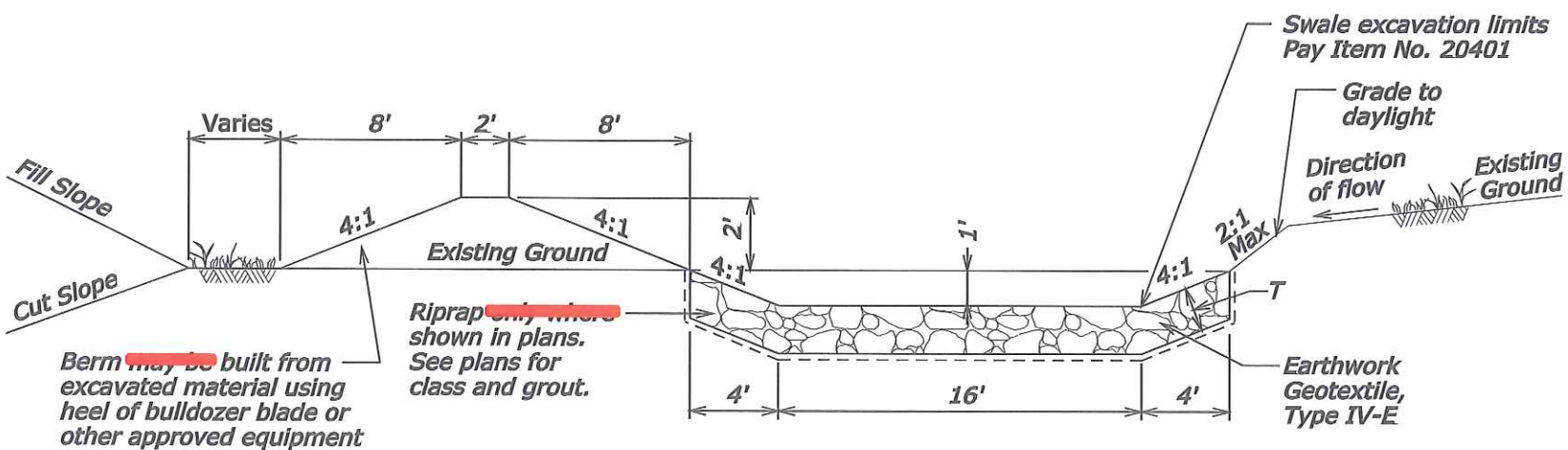
SWALE DETAIL - TYPE A



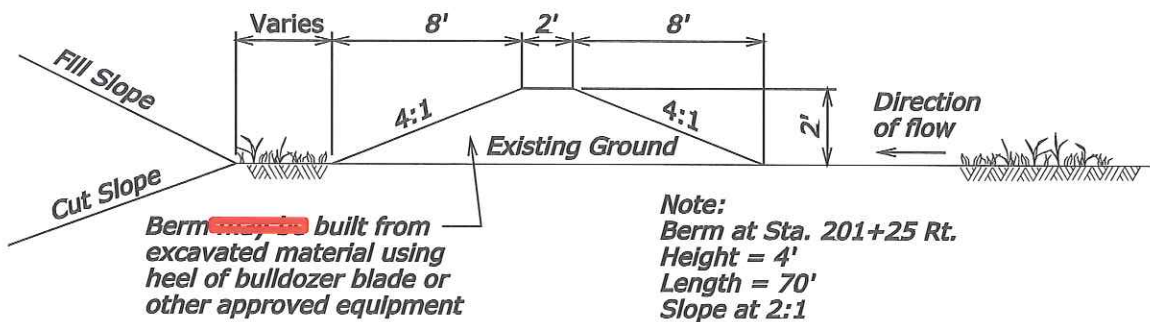
SWALE DETAIL - TYPE B



SWALE DETAIL - TYPE C

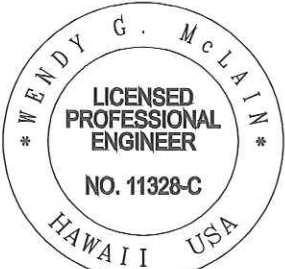


EARTH BERM AND SWALE DETAIL



EARTH BERM DETAIL

PAY ITEM NO.	RIPRAP CLASS	T-THICKNESS (FT)
25101-1000	CLASS 1	1.0
25101-2000	CLASS 2	1.5
25101-3000	CLASS 3	2.0
25101-4000	CLASS 4	2.5



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: *Wendy G. McLain* EXPIRATION DATE OF THE LICENSE: 4/30/2012

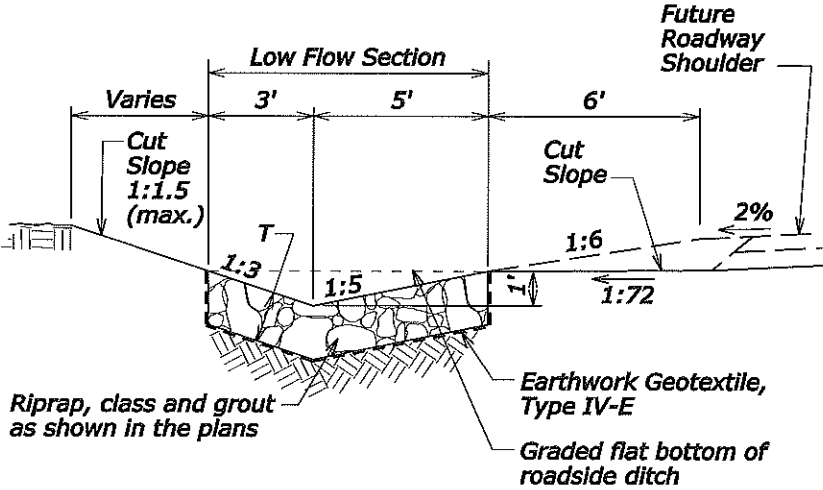
NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

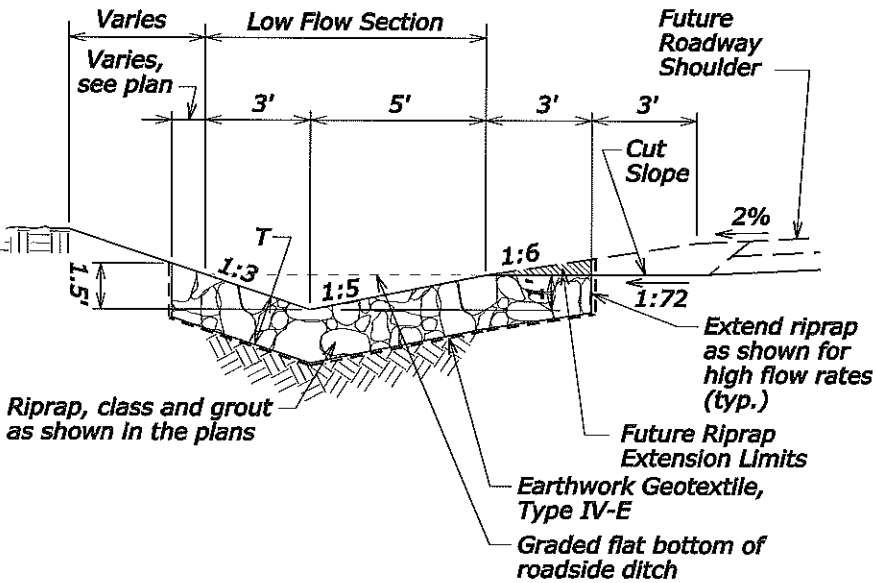
U.S. CUSTOMARY SPECIAL
**EARTH BERM
AND SWALE
DETAILS**

SPECIAL
251-A

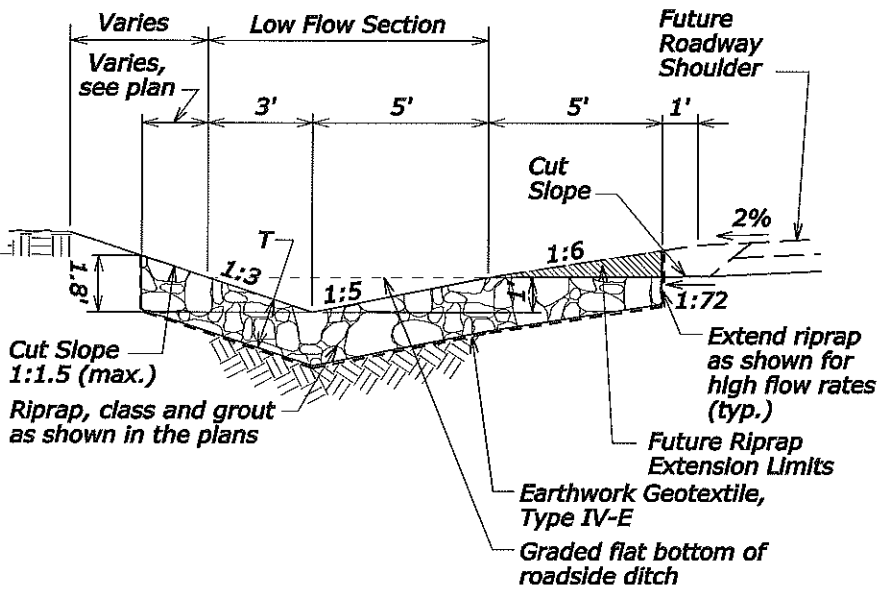
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(6)	G13	G28



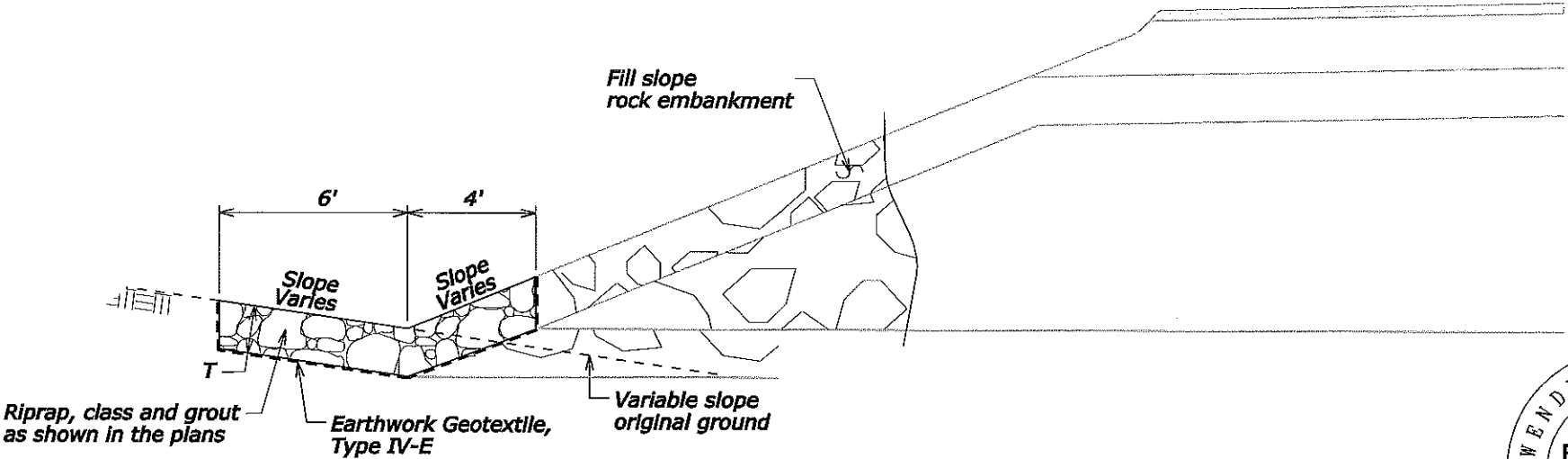
Riprap in Roadside Ditch
Section
Type A



Riprap in Roadside Ditch
Section
Type B

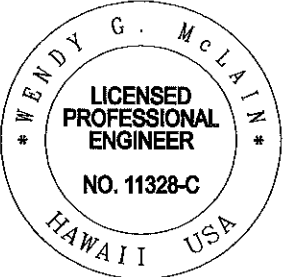


Riprap in Roadside Ditch
Section
Type C



Toe Protection Section

PAY ITEM NO.	RIPRAP CLASS	T-THICKNESS (FT)
25101-1000	CLASS 1	1.0
25101-2000	CLASS 2	1.5
25101-3000	CLASS 3	2.0
25101-4000	CLASS 4	2.5

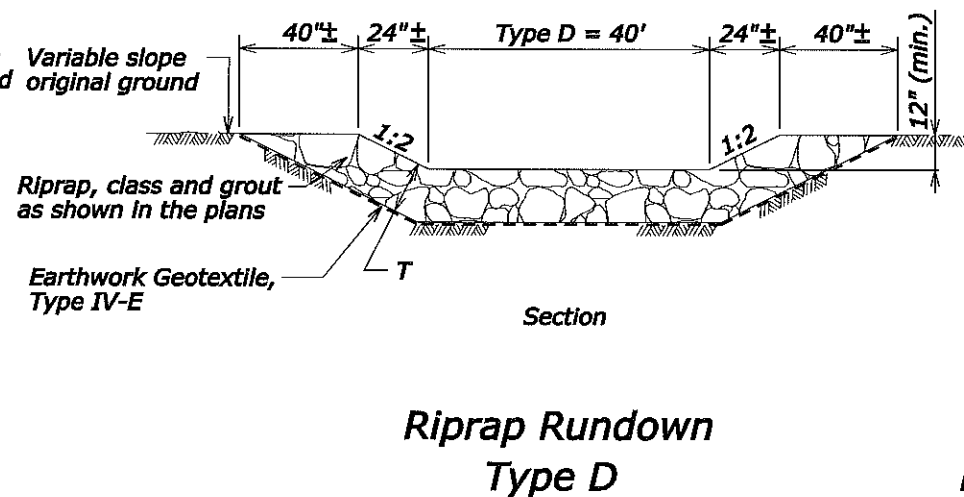
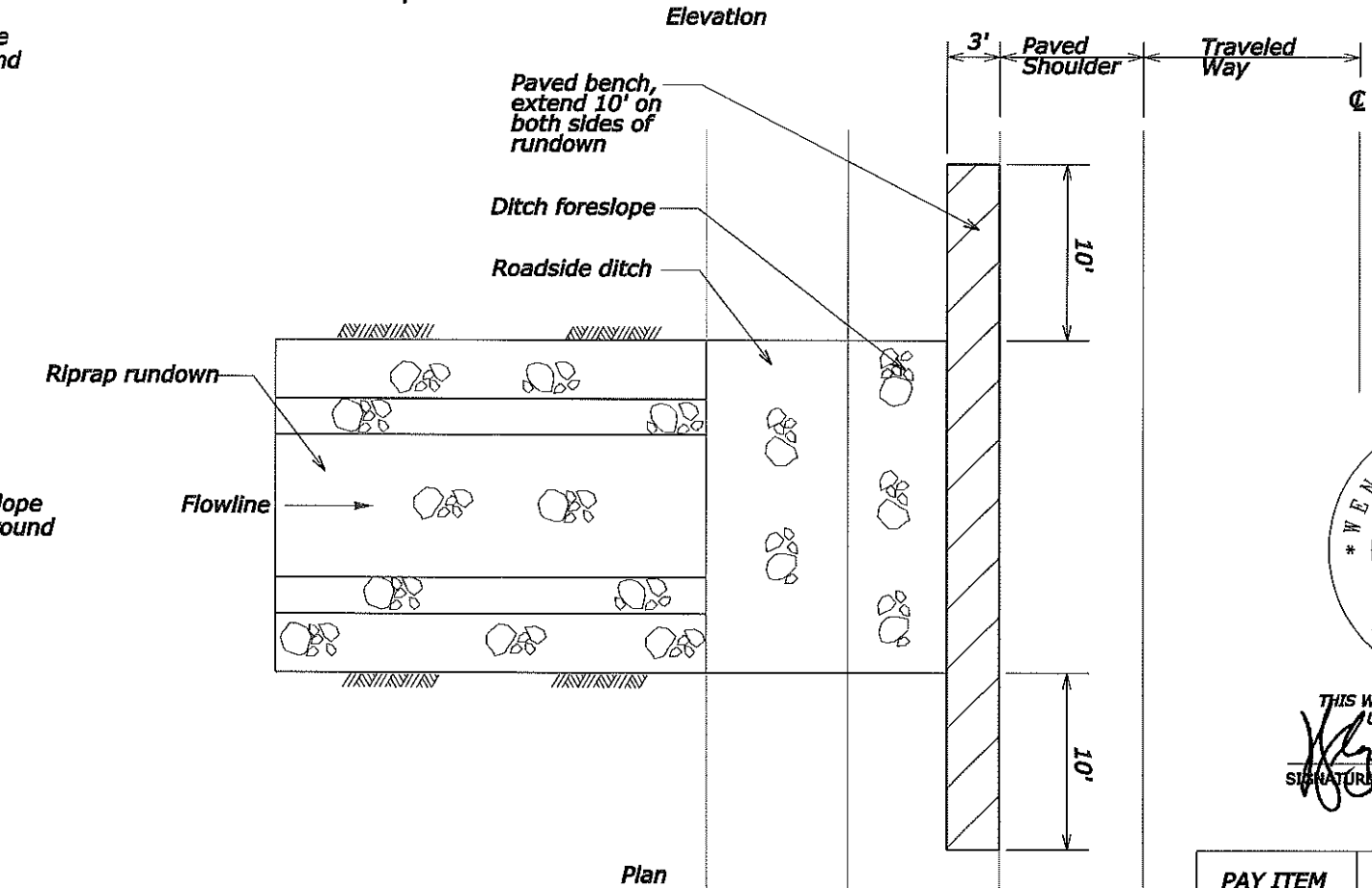
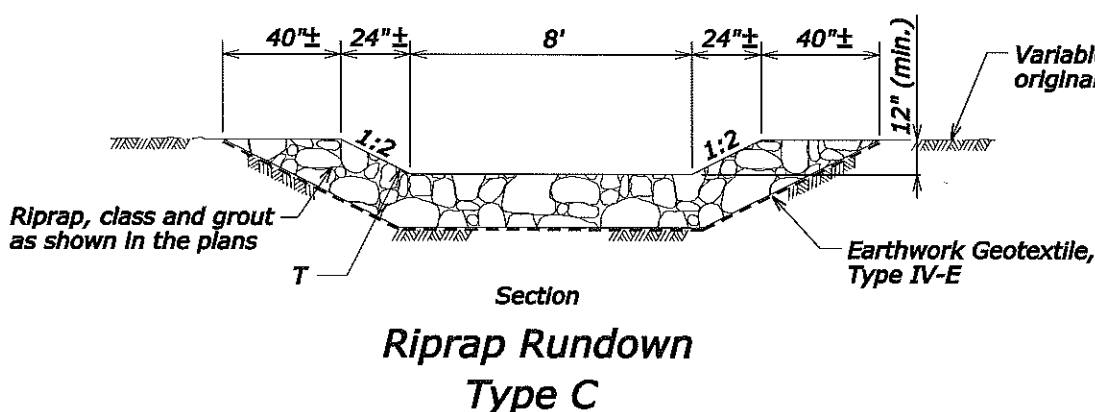
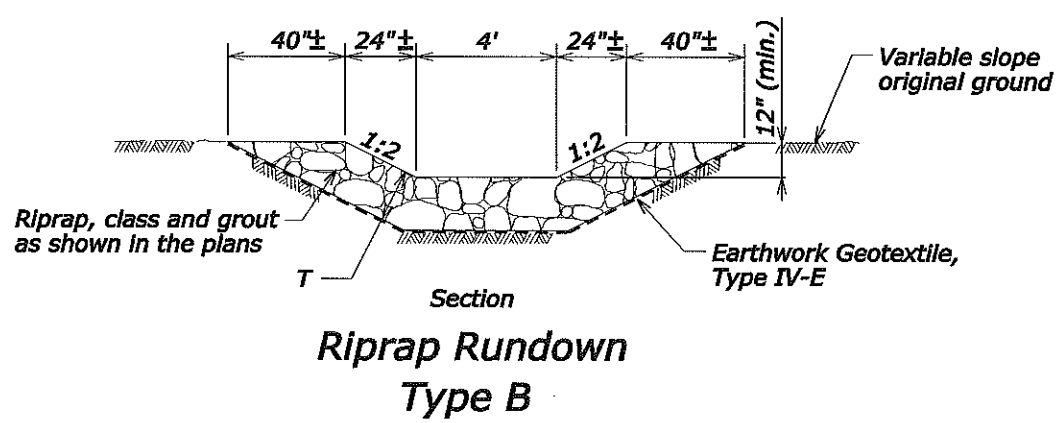
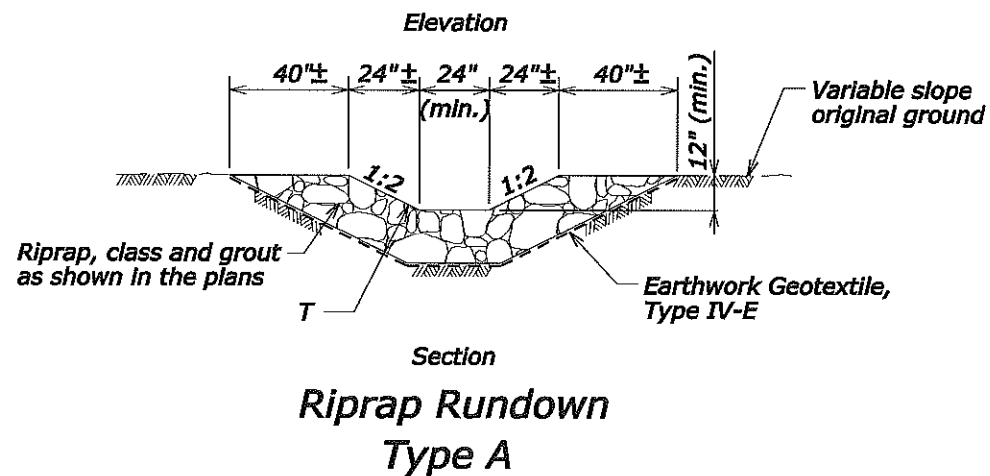
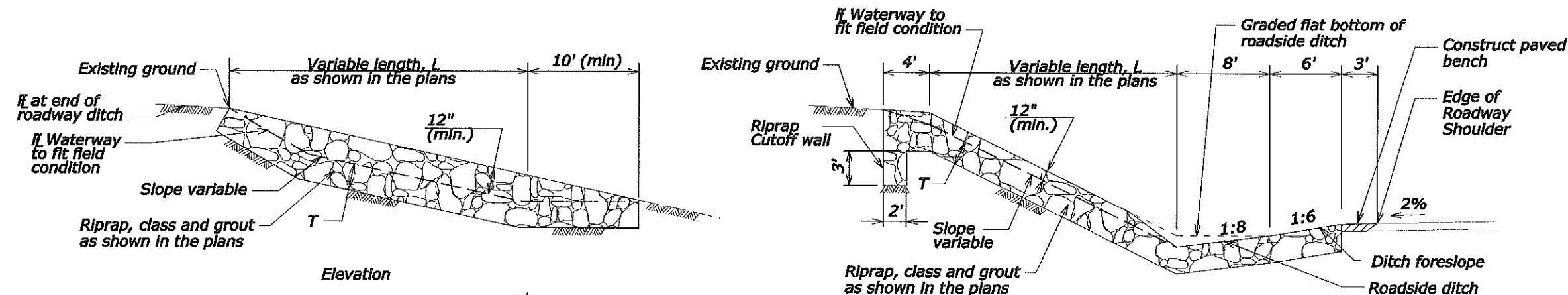


NO SCALE

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4/30/2012
EXPIRATION DATE OF THE LICENSE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY
U.S. CUSTOMARY SPECIAL RIPRAP IN ROADSIDE DITCH AND TOE PROTECTION
SPECIAL 251-B

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(6)	G14	G28



WENDY G. McLAIN

LICENSED PROFESSIONAL ENGINEER

NO. 11328-C

HAWAII USA

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

4/30/2012

EXPIRATION DATE OF THE LICENSE

PAY ITEM NO.	RIPRAP CLASS	T-THICKNESS (FT)
25101-1000	CLASS 1	1.0
25101-2000	CLASS 2	1.5
25101-3000	CLASS 3	2.0
25101-4000	CLASS 4	2.5

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY SPECIAL

RIPRAP RUNDOWN

SPECIAL 251-C

5/18/2011 2:22:59 PM m:\2006\2006_069.004 cfrid saddle road_west side\g drawings\contract documents\HI SR 200(00)_SP251-C.dgn