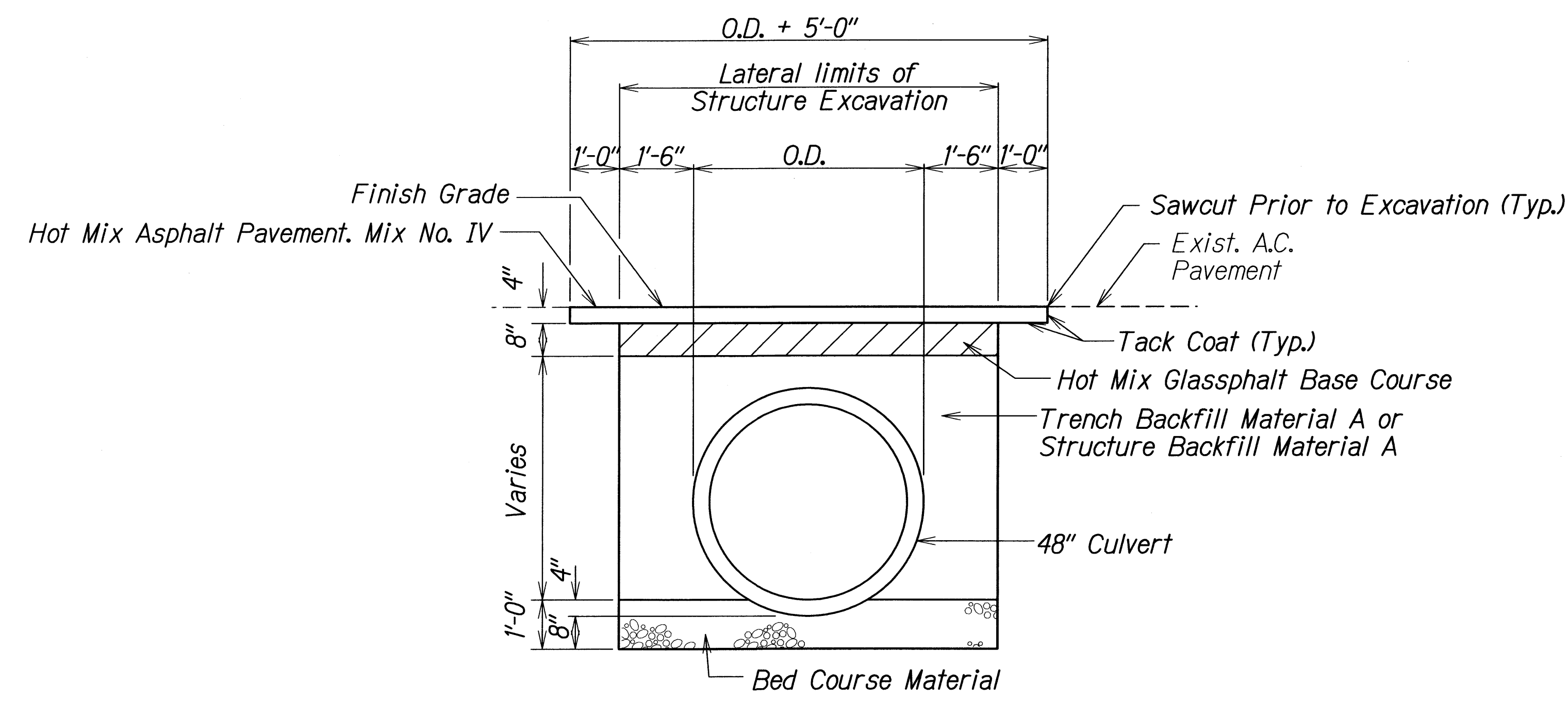
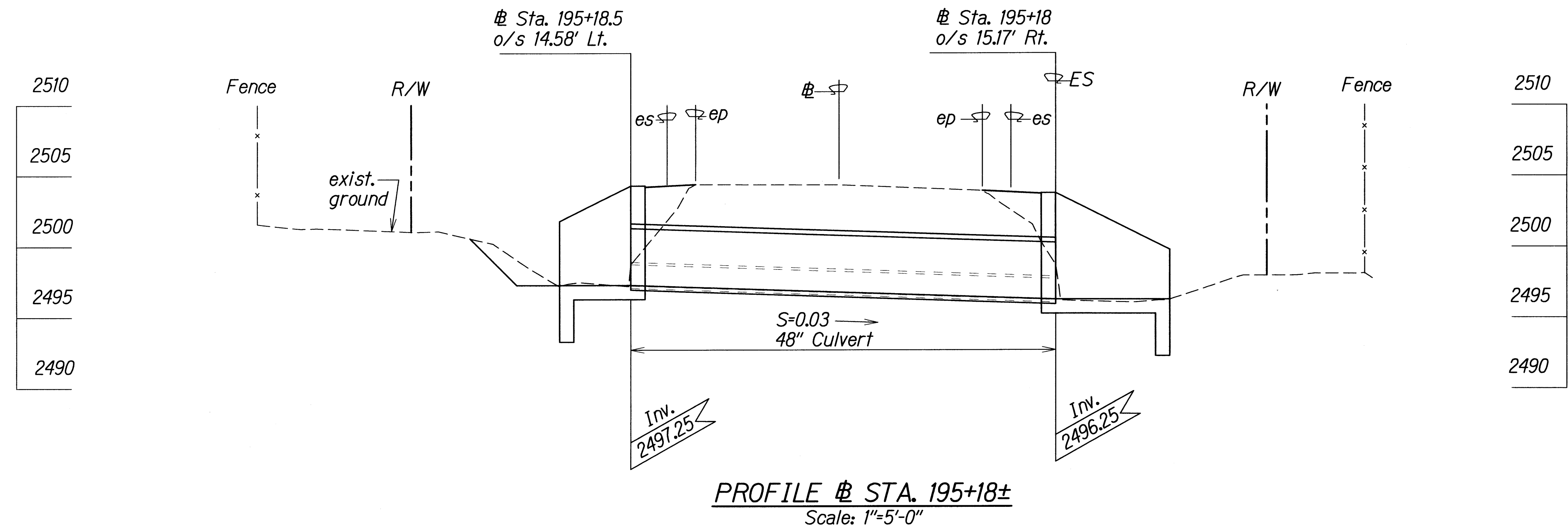


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	250A-03-09	2010	10	16



DETAILS OF CULVERT TRENCH RESTORATION
Scale: 1/2" = 1'-0"

DESIGNED BY	DATE
TRACED BY	
NOTED BY	
CHECKED BY	

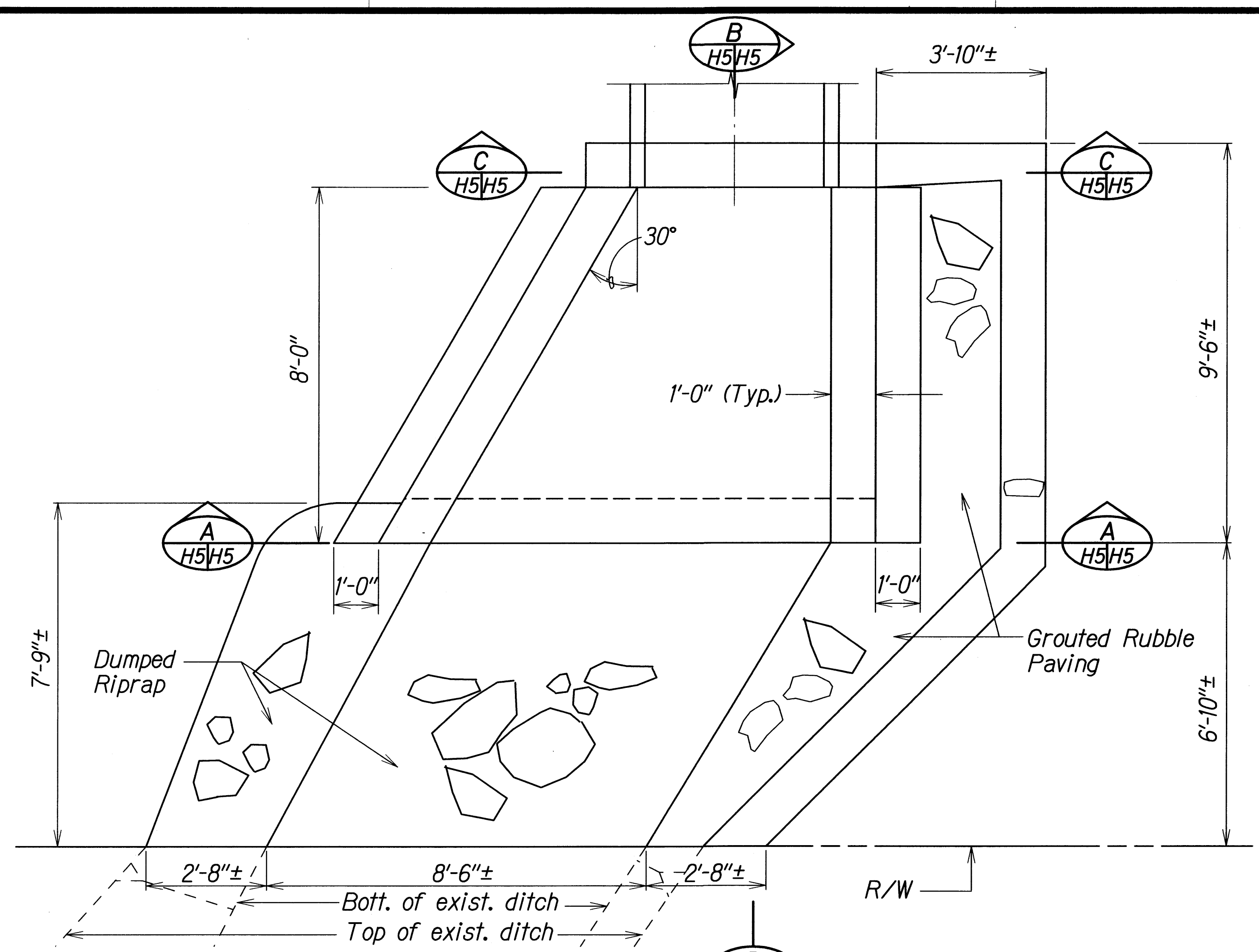
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
KOHALA MOUNTAIN ROAD
DRAINAGE IMPROVEMENTS, PHASE 3
VICINITY OF M.P. 13.47
Project No. 250A-03-09

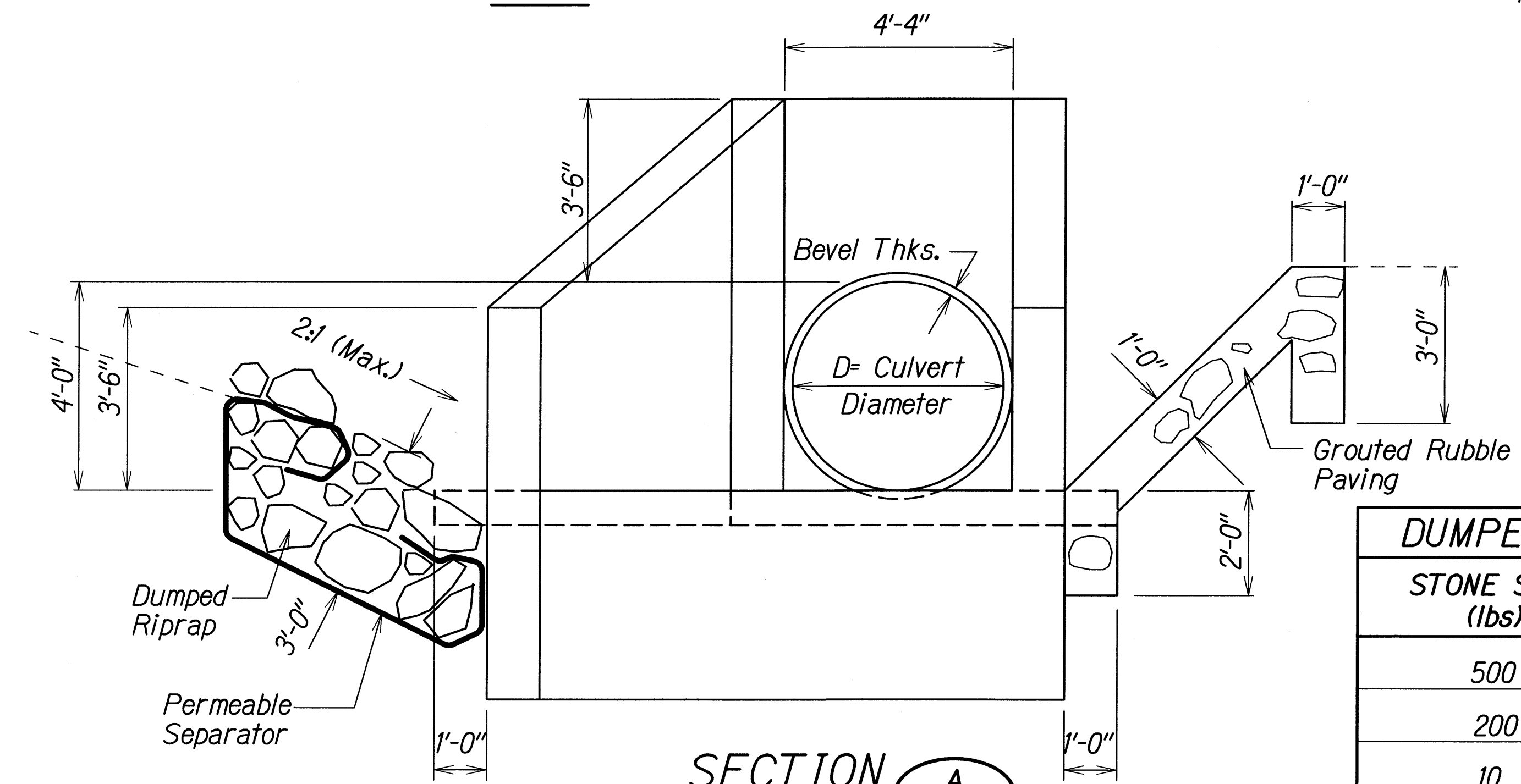
Scale: As Shown Date: May, 2008

SHEET No. H3 OF 5 SHEETS

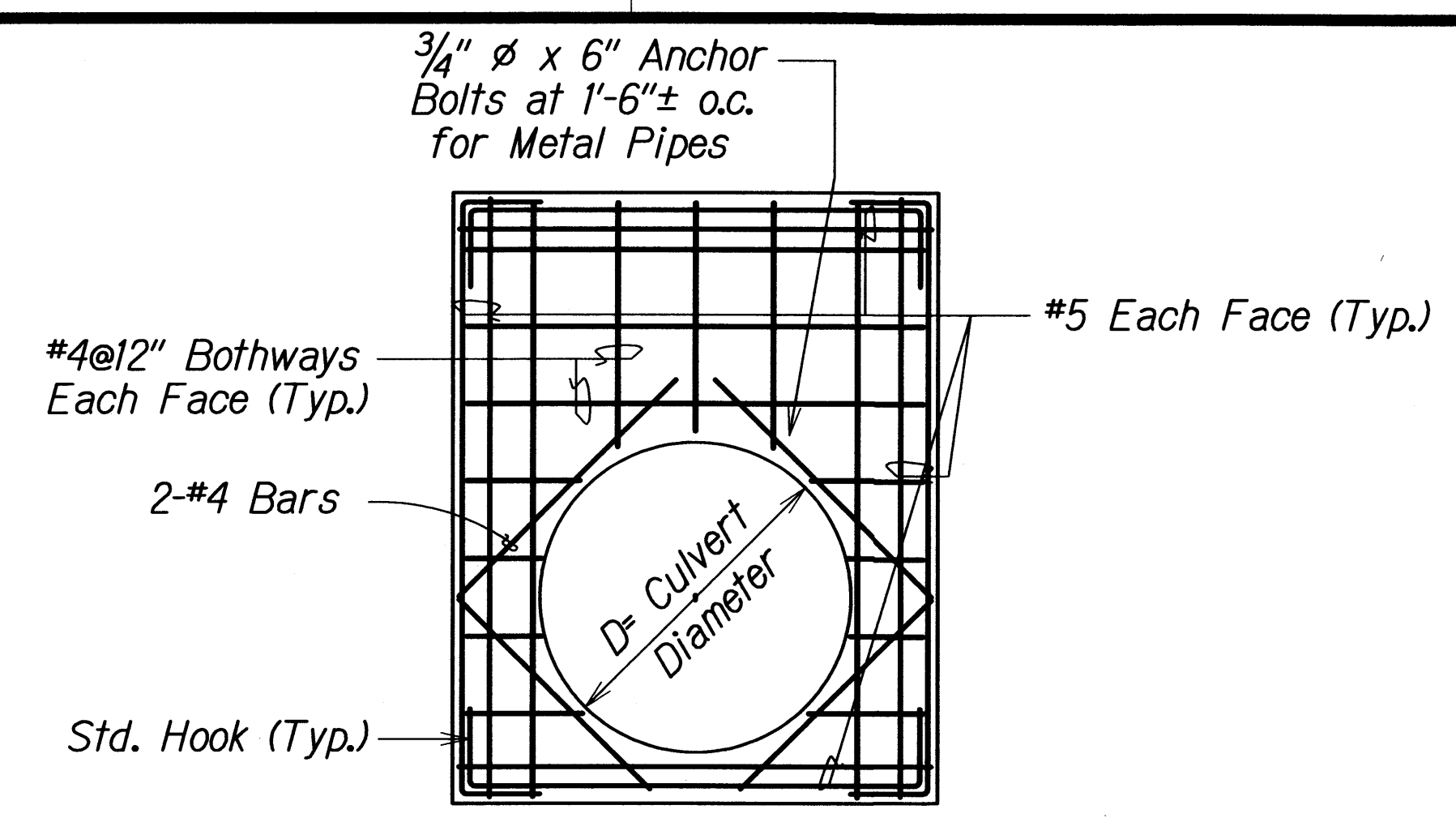
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HAWAII	HAW.	250A-03-09	2010	12	16



PLAN

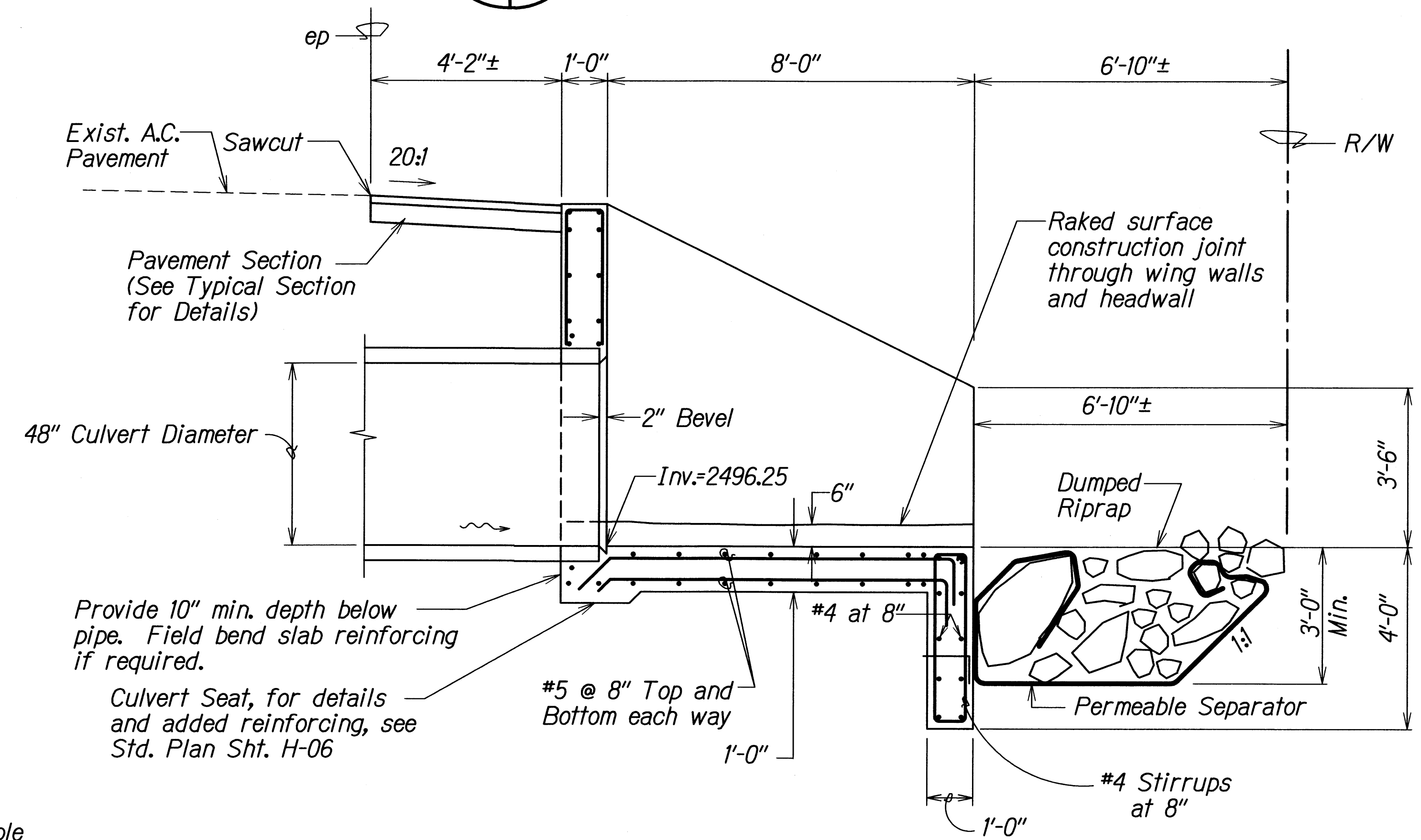


SECTION A



SECTION C

TYPICAL WING WALL REINFORCING SECTION



SECTION B

DUMPED RIPRAP GRADATION	
STONE SIZE (lbs)	PERCENT OF STONE SMALLER THAN
500	100
200	50
10	10

DETAILS OF TYPE "1" OUTLET STRUCTURE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

KOHALA MOUNTAIN ROAD
DRAINAGE IMPROVEMENTS, PHASE 3
VICINITY OF M.P. 13.47
Project No. 250A-03-09
Scale: 1/2" = 1'-0" Date: May, 2008

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
REVISIONS	