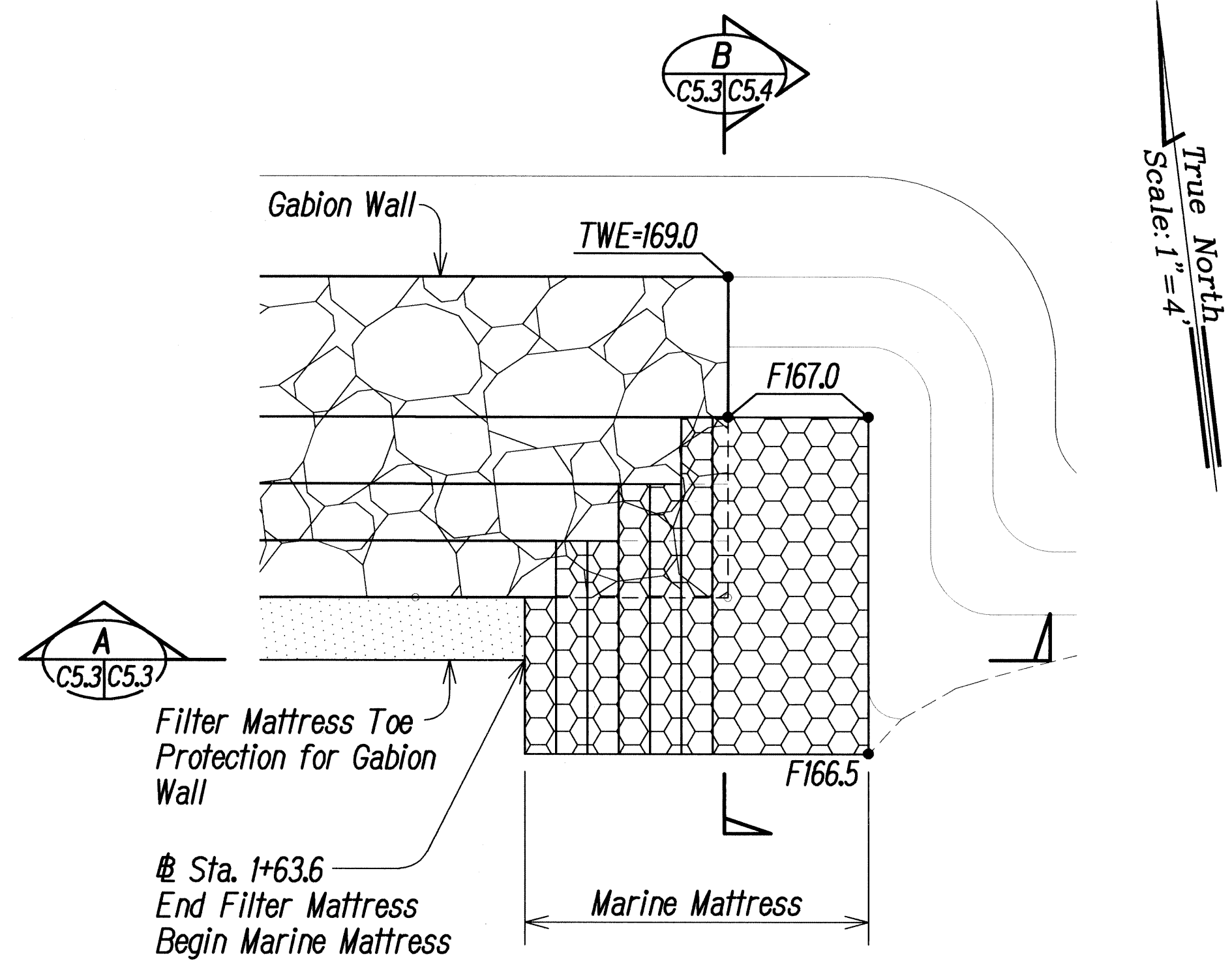
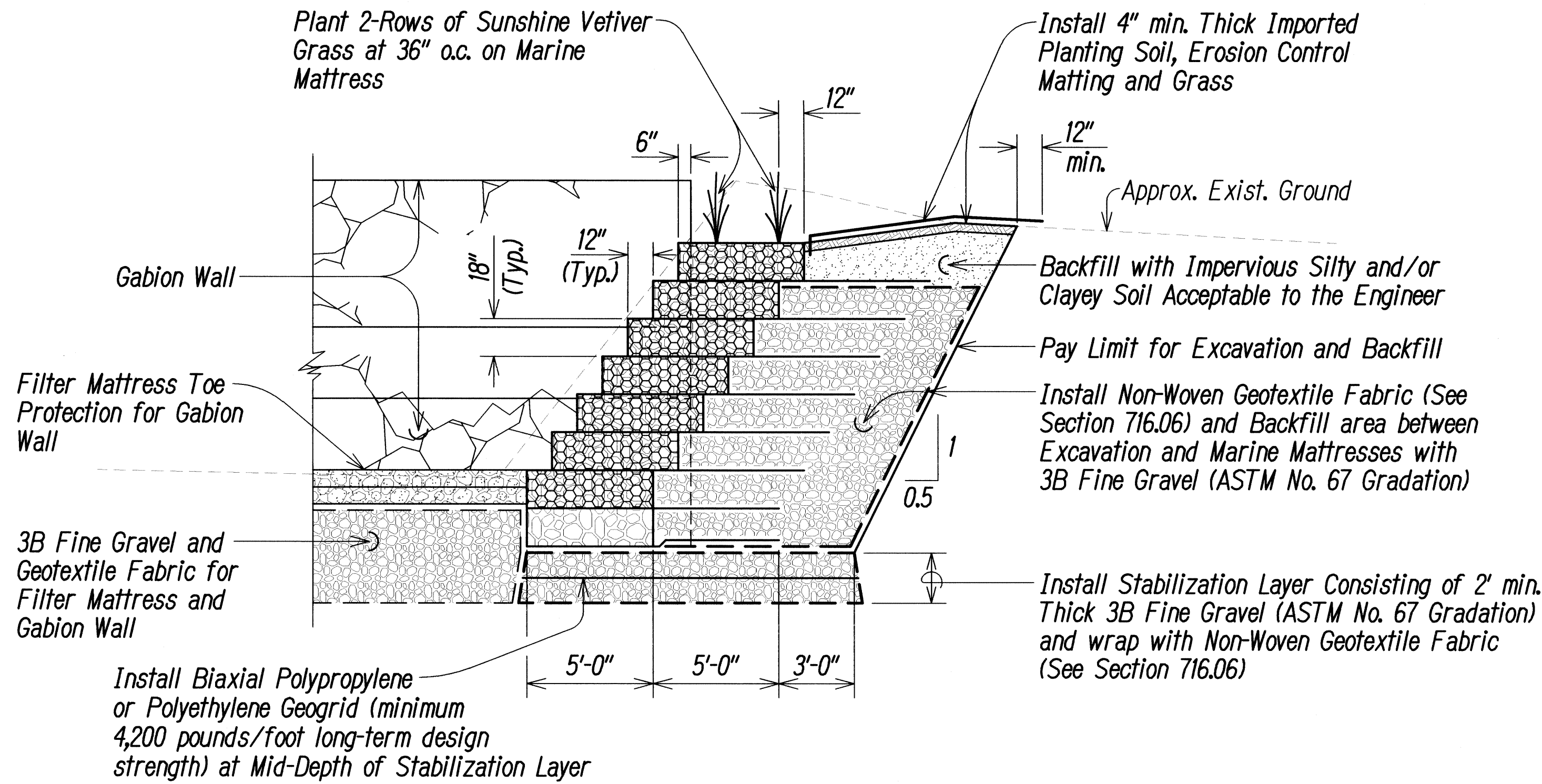


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	19	55



PLAN  
SCALE: 1/4" = 1'-0" C4.1 C5.3



SECTION  
SCALE: 1/4" = 1'-0" A C5.3 C5.3



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

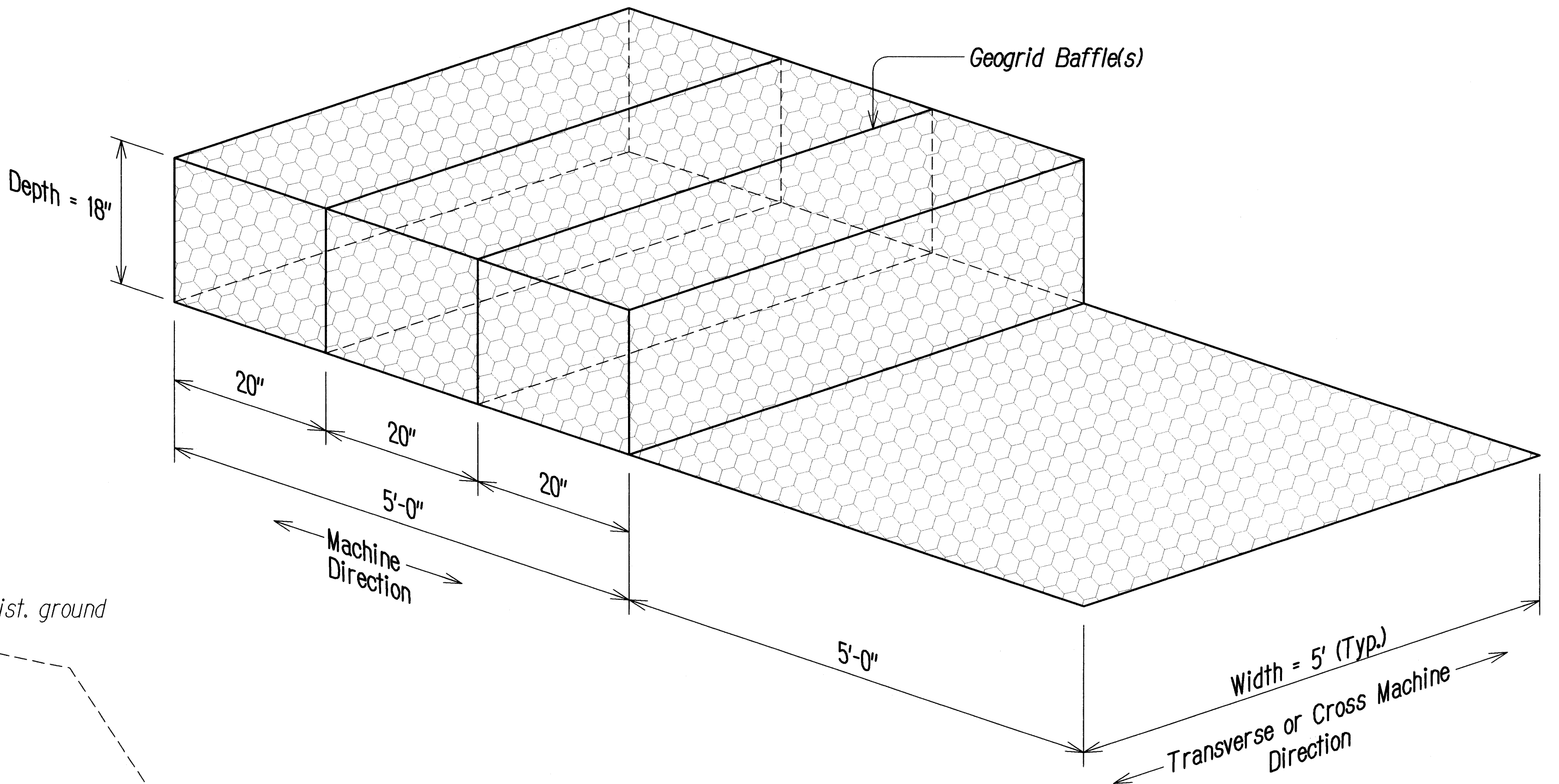
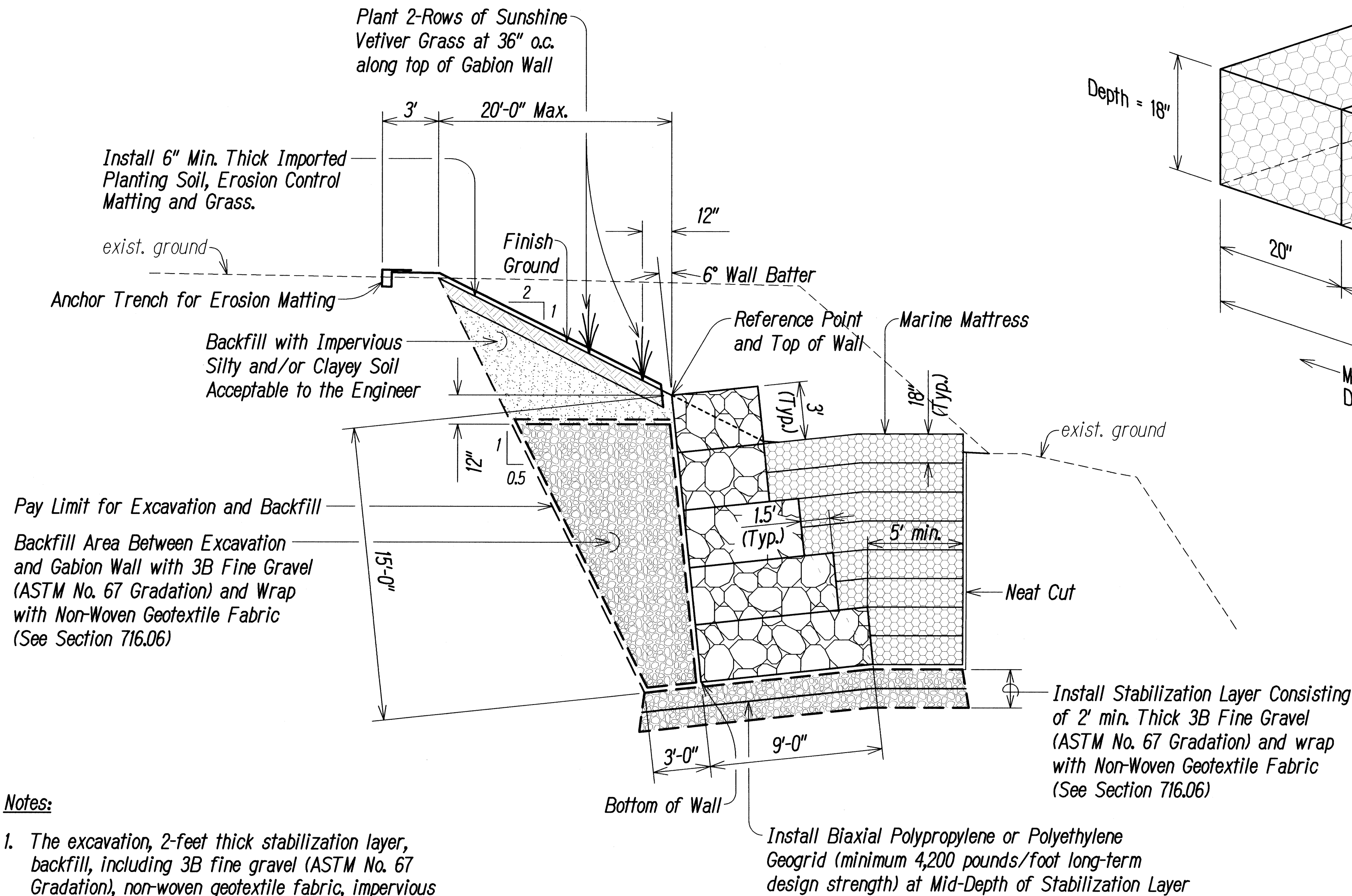
*Russell M. Araki*  
APR 30, 2012  
Lic. Exp. Date  
ParEn, Inc.  
dba PARK ENGINEERING

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MARINE MATTRESS DETAILS**  
CASTLE HILLS ACCESS ROAD  
Drainage Improvements, Phase 2  
FEDERAL-AID PROJECT NO. STP-0300(125)  
Scale: As Shown Date: December 2011

SHEET No. C5.3 OF C5.4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	20	55



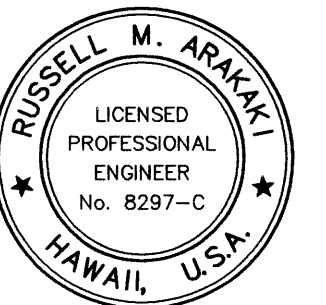
**TYPICAL CONFIGURATION OF MARINE MATTRESS**

SCALE: 1" = 1'-0"

**Notes:**

1. The excavation, 2-foot thick stabilization layer, backfill, including 3B fine gravel (ASTM No. 67 Gradation), non-woven geotextile fabric, impervious silty and/or clayey soil, and marine mattress shall be considered incidental to Item 517.0100 Marine Mattress.
2. The design, installation, maintenance and removal of the temporary cofferdam will be paid for under Item 515.0300 Temporary Cofferdam for Gabion Walls.
3. See special provisions Section 515 - Gabion Walls and Aprons for additional requirements.
3. See special provisions Section 516 - Filter Mattresses for additional requirements.

SECTION **B**  
SCALE: 1/4" = 1'-0" C5.3 C5.4



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

*Russell M. Araki*  
APR 30, 2012  
LIC. EXP. DATE  
dbs PARK ENGINEERING

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>MARINE MATTRESS DETAIL</b>	
CASTLE HILLS ACCESS ROAD Drainage Improvements, Phase 2 FEDERAL-AID PROJECT NO. STP-0300(125)	
Scale: As Shown	Date: December 2011
SHEET No. C5.4 OF C5.4 SHEETS	

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