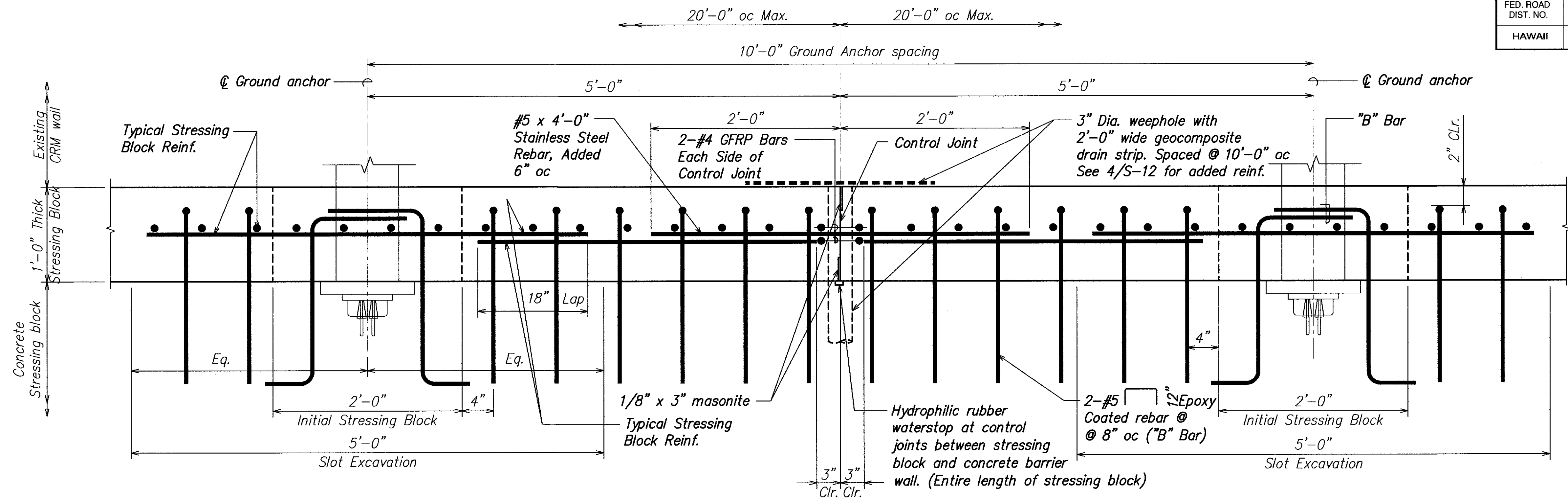


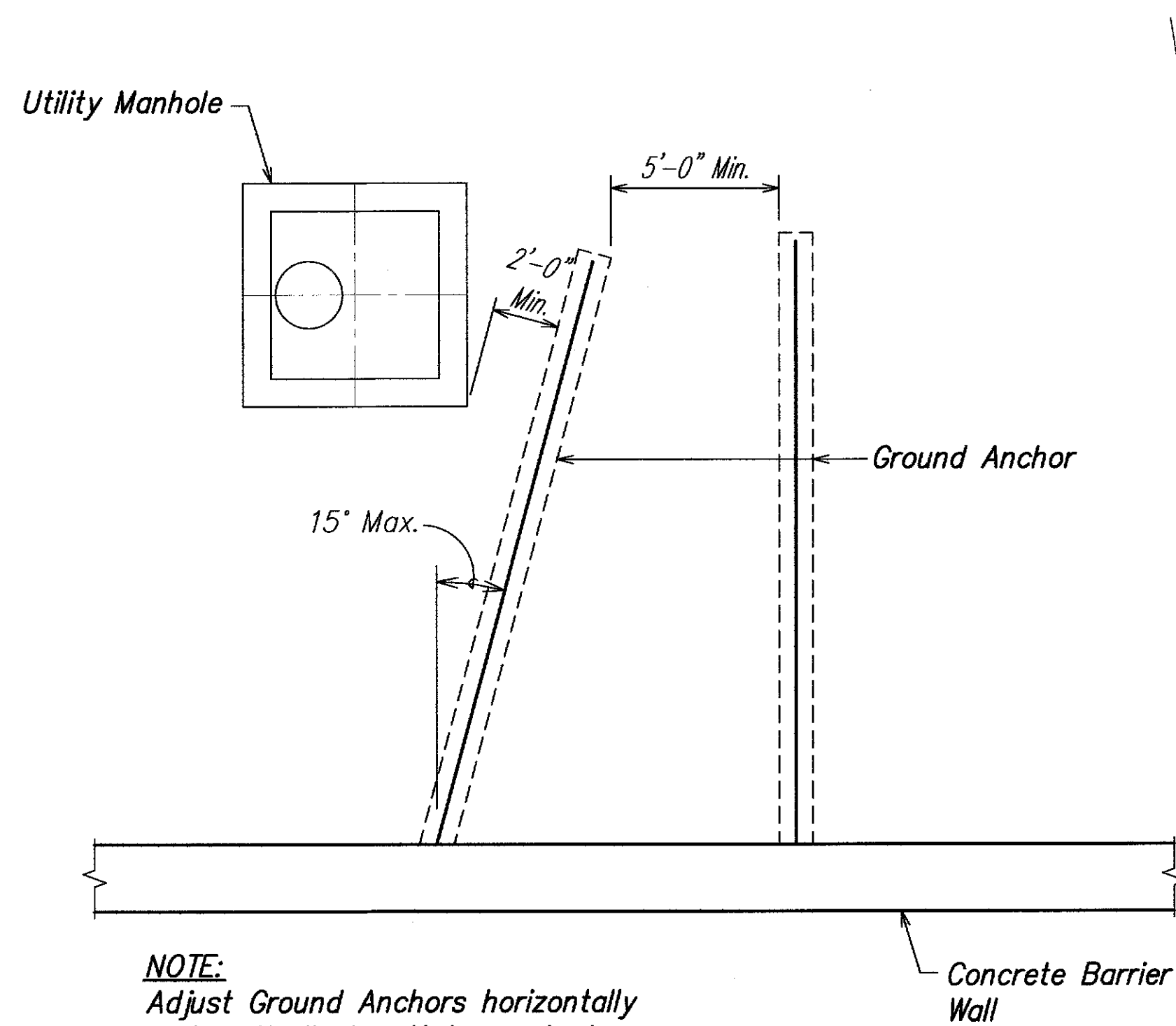
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(51)	2007	38	106



- Notes:**
1. Separate dissimilar metals e.g., stainless and non-stainless steel rebar, with teflon tape at contact area only.
 2. Detail shown is for Case 2 construction. Case 1 similar except for slot excavation and initial stressing block.
 3. "A" Bar not shown for clarity. See S-9 and S-10 for vertical placement of "A" bars and "B" bars.

TYPICAL STRESSING BLOCK CONTROL JOINTS 1

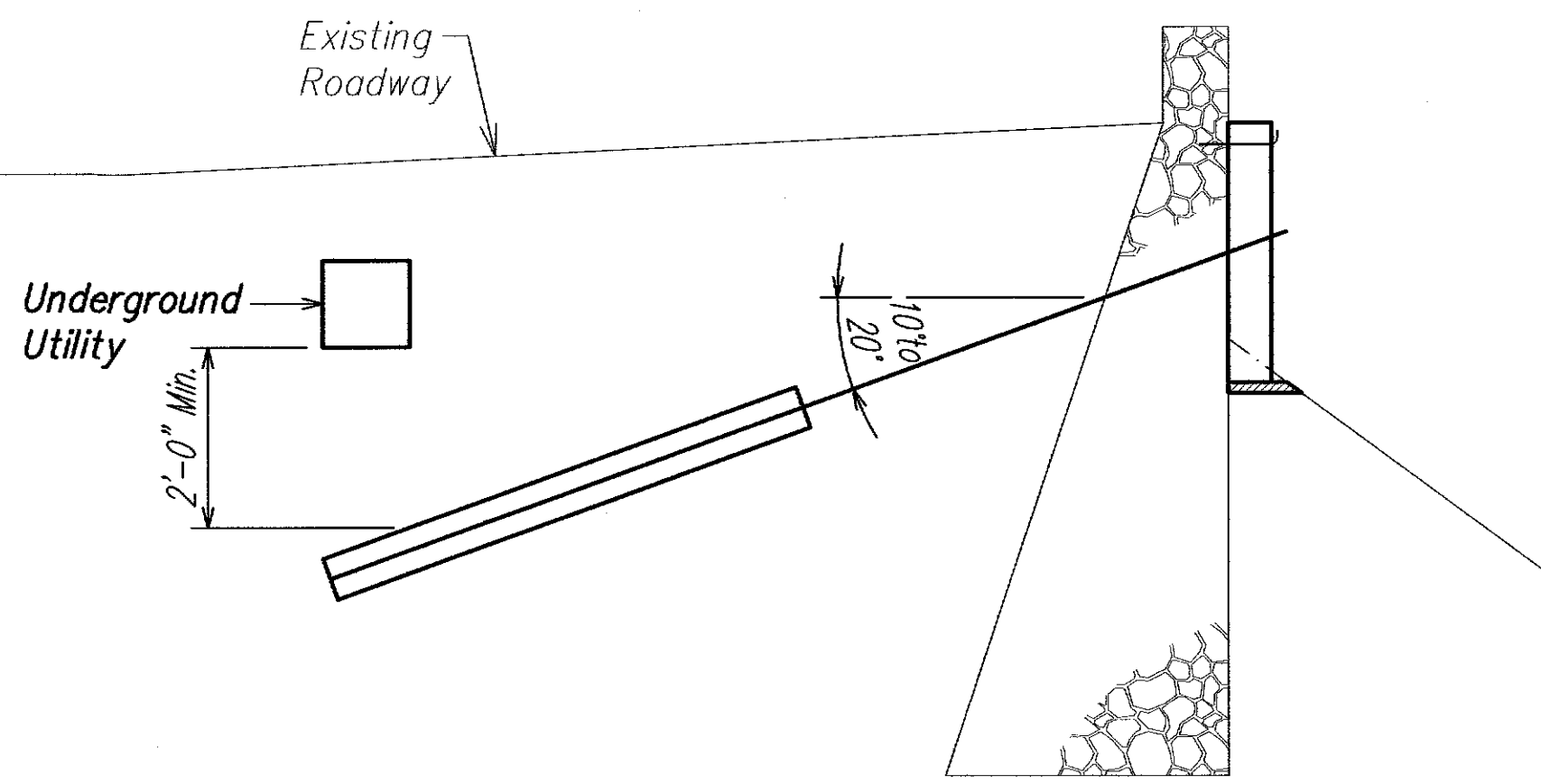
SCALE: N.T.S. S-12 S-12



NOTE:
Adjust Ground Anchors horizontally and vertically to attain required clearance to existing or new utilities.

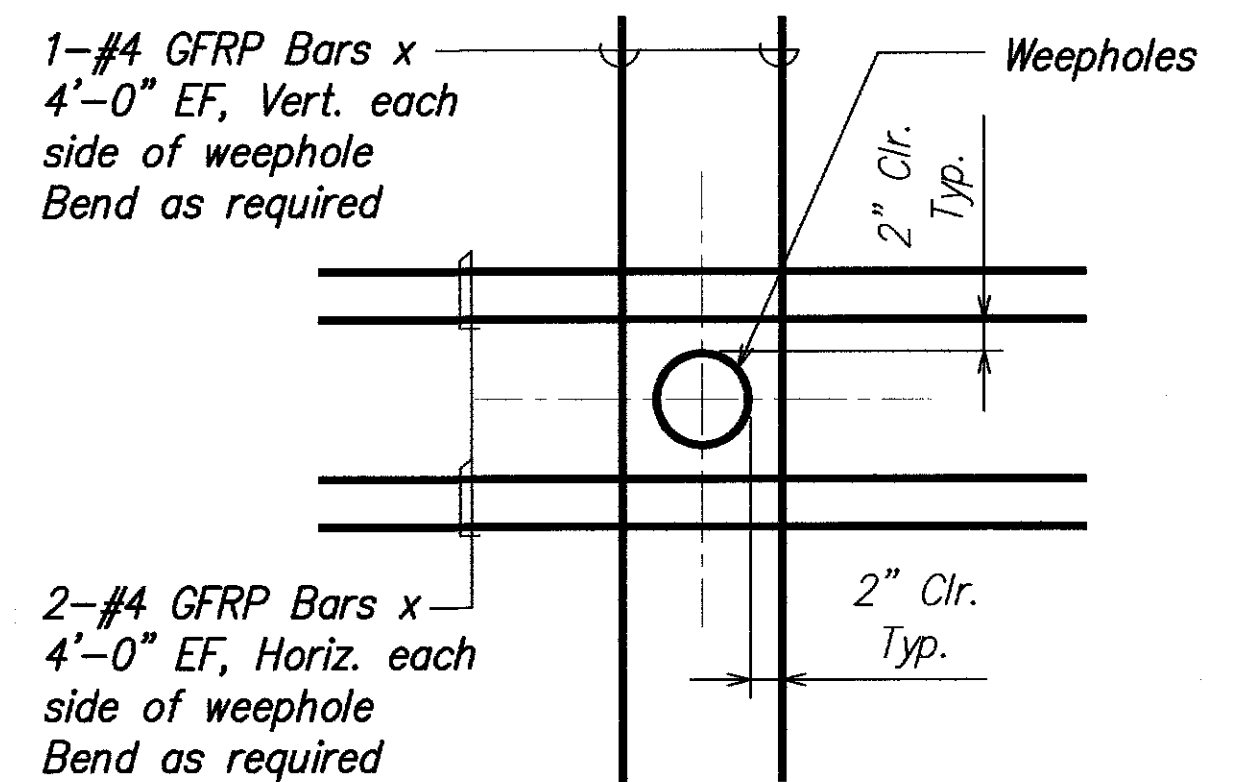
PLAN 2

SCALE: 1/4" = 1'-0" S-12 S-12



SECTION 3

SCALE: 1/4" = 1'-0" S-12 S-12



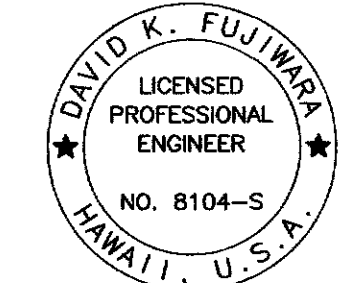
- Notes:**
1. Added reinforcing not required at control joints.
 2. Added reinforcing to be added to stressing block and concrete barrier wall.
 3. Weepholes at Case 2 locations only.

ADDED REINFORCING AT WEEPHOLES 4

SCALE: 1" = 1'-0" S-12 S-12

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

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting



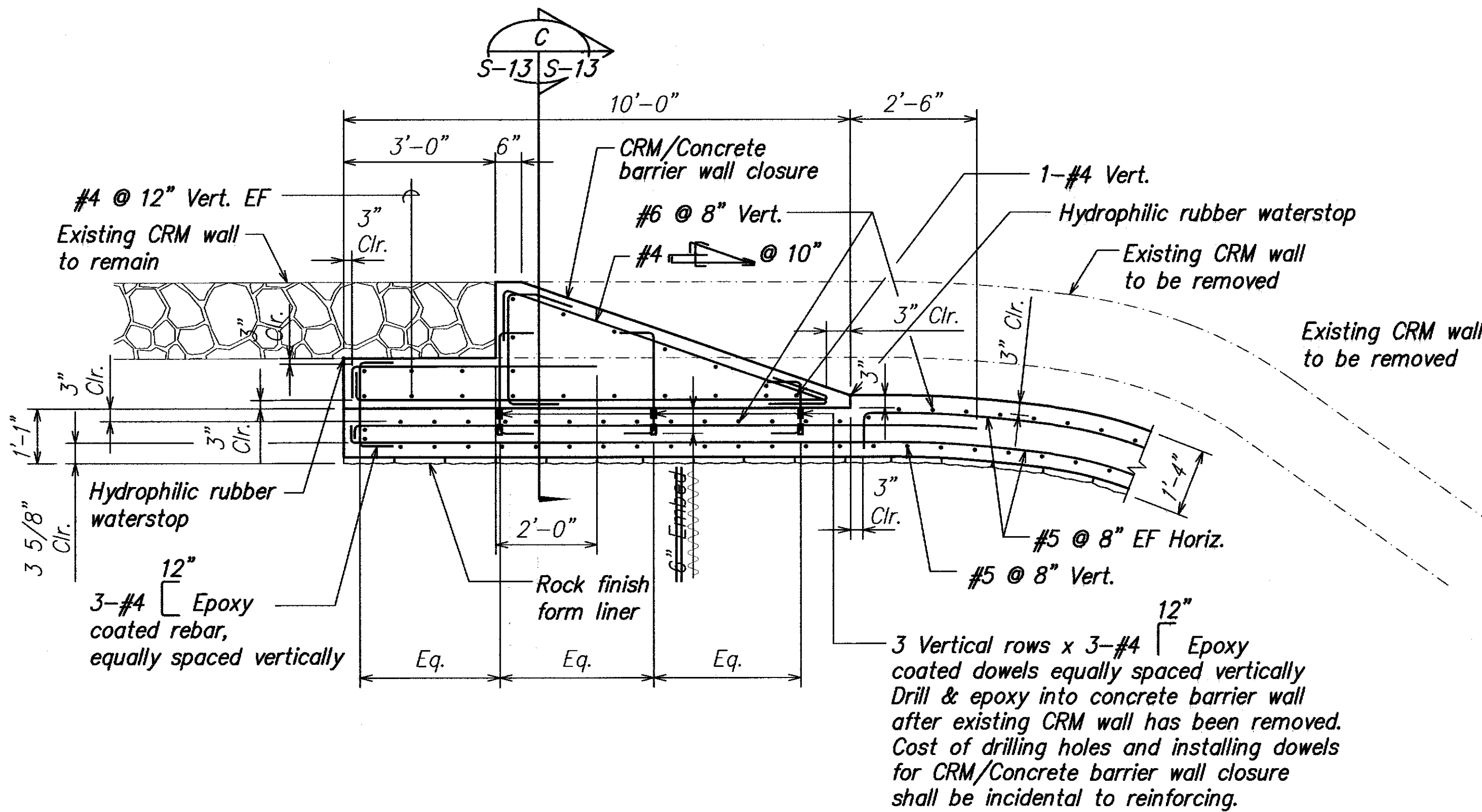
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-12

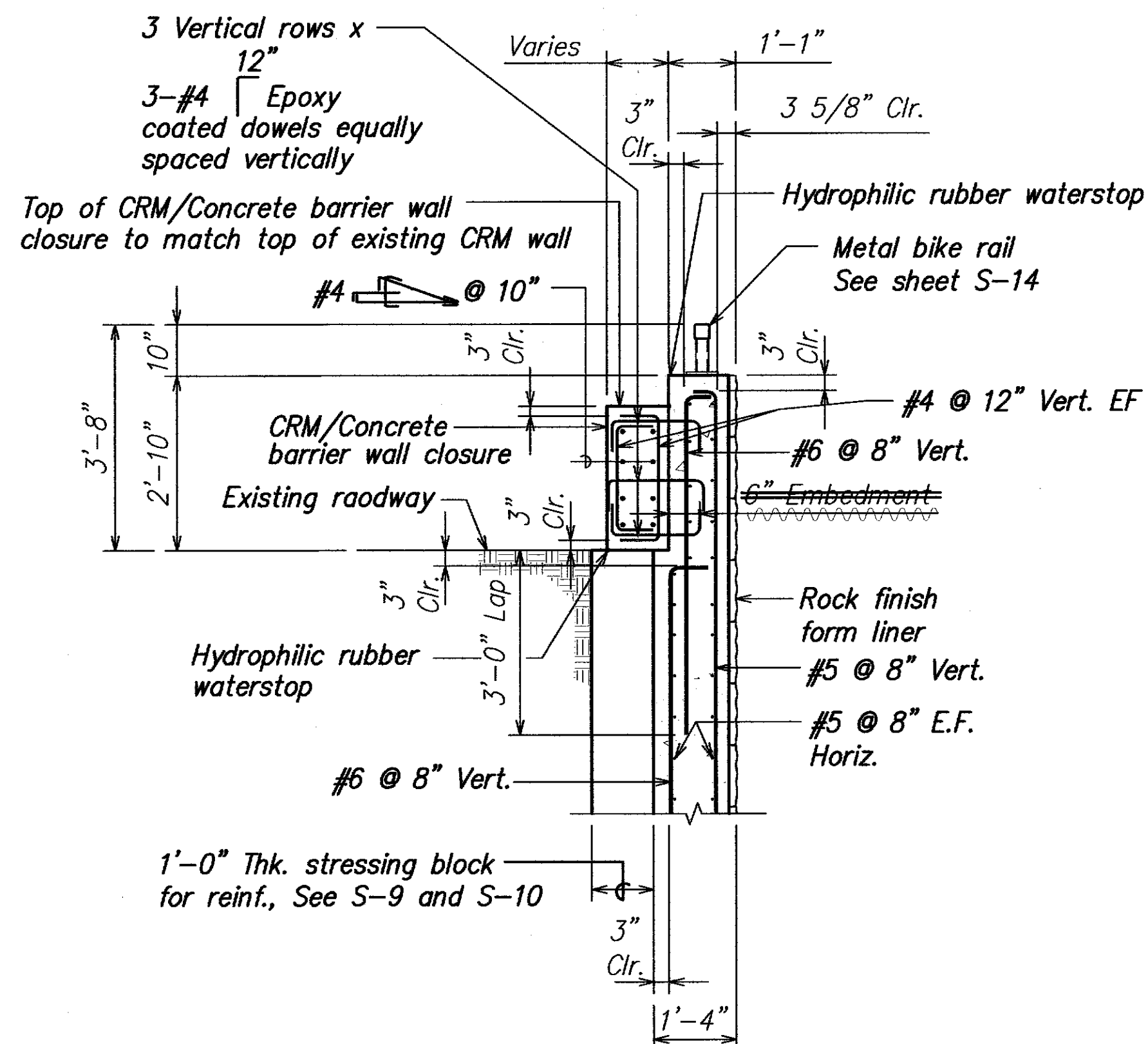
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MISCELLANEOUS DETAILS	
Kalaniana'ole Highway Improvements Retaining Wall at Makapuu, Oahu Federal-Aid Project No. NH-072-1(51)	
Scale: As Noted	Date: April 2007
SHEET No. S-12 OF 15 SHEETS	

"AS-BUILT"

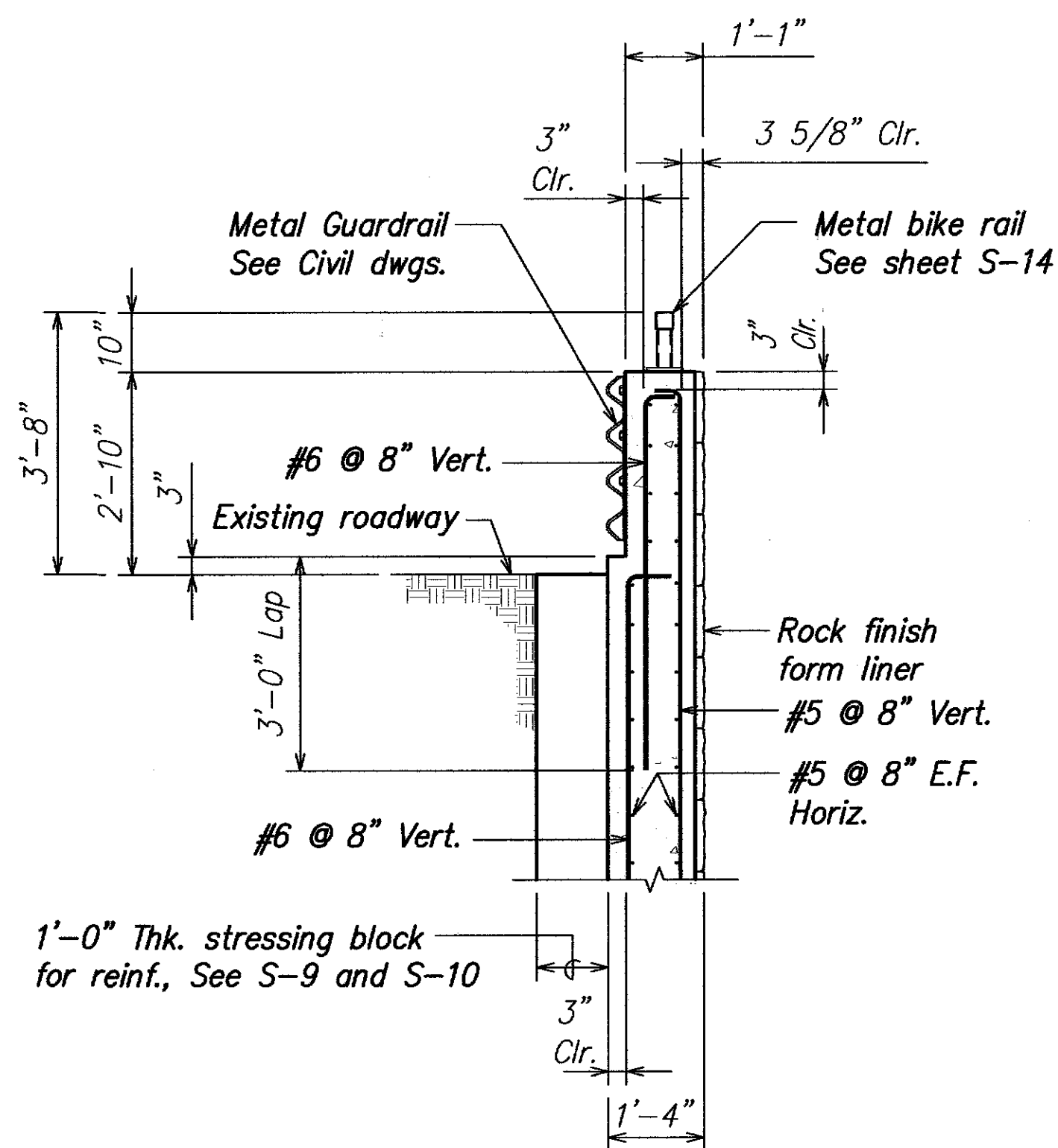
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(51)	2007	39	106



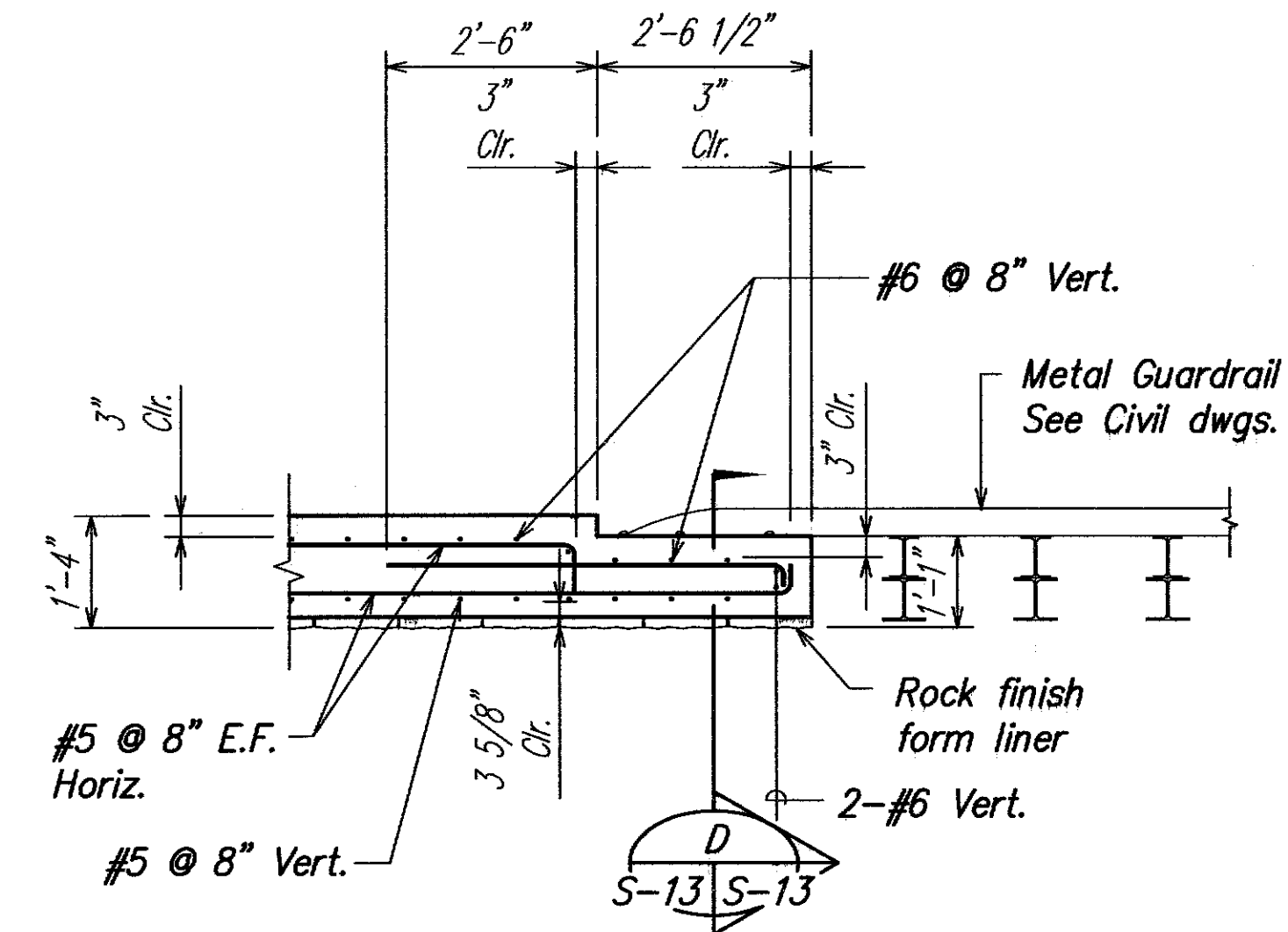
PLAN - SECTION @ STA. 5+84.4 (A)
SCALE: 1/2" = 1'-0"



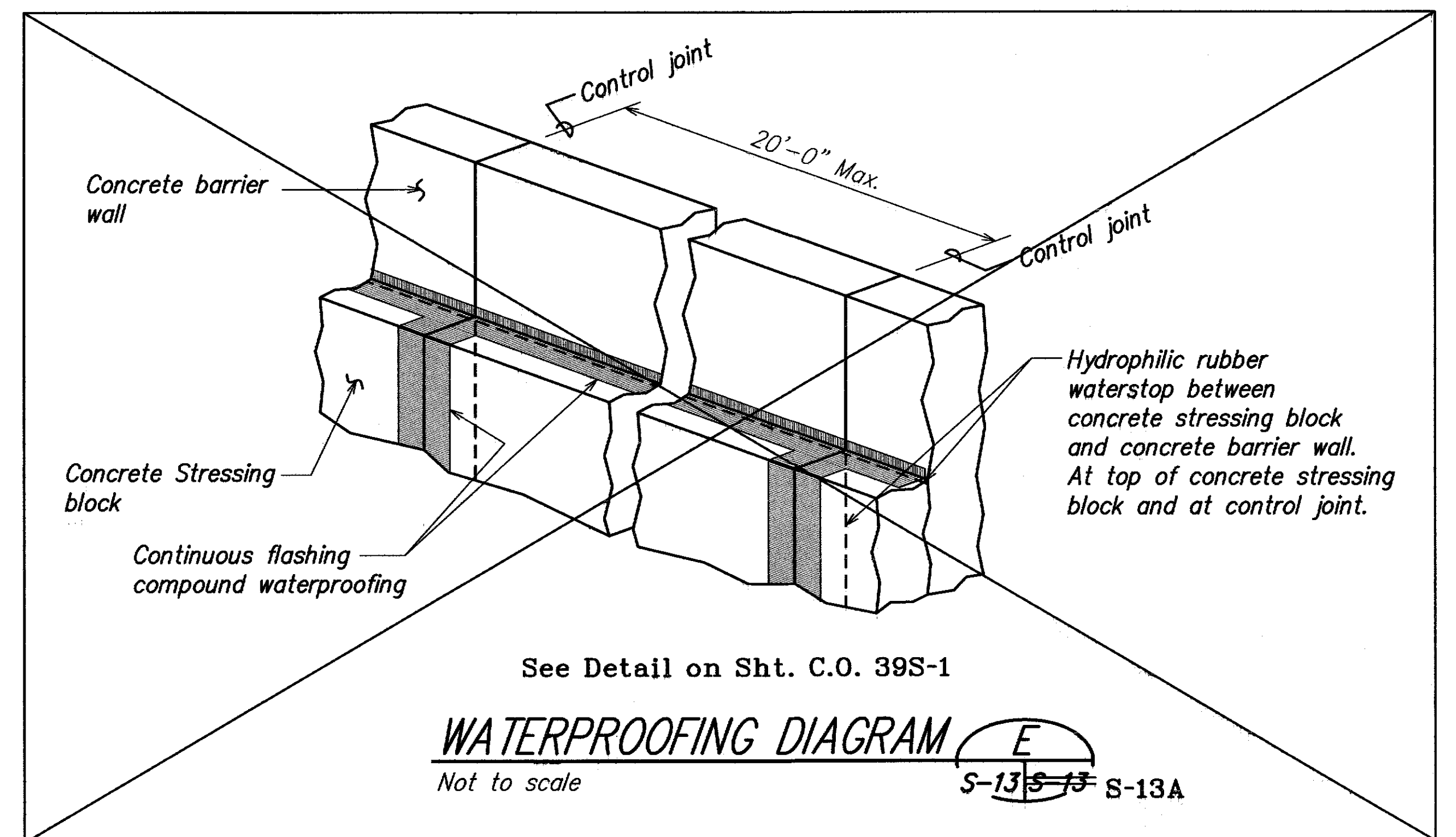
SECT. - CONC. BARRIER WALL AT METAL GUARDRAIL (C)
SCALE: 1/2" = 1'-0"



SECT. - CONC. BARRIER WALL AT METAL GUARDRAIL (D)
SCALE: 1/2" = 1'-0"

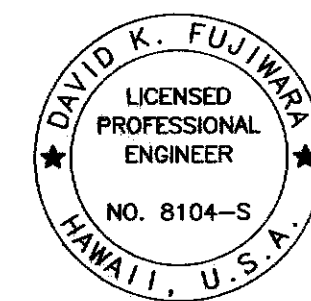


PLAN - SECTION @ STA. 15+25 (B)
SCALE: 1/2" = 1'-0"



WATERPROOFING DIAGRAM (E)
Not to scale

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-12

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CONCRETE BARRIER WALL ENDS - PLANS AND SECTIONS	
Kalanian'aoale Highway Improvements Retaining Wall at Makapuu, Oahu	
Federal-Aid Project No. NH-072-1(51)	Scale: As Noted Date: April 2007
SHEET No. S-13 OF 15 SHEETS	

