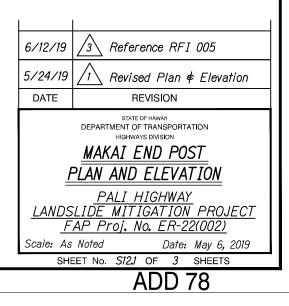
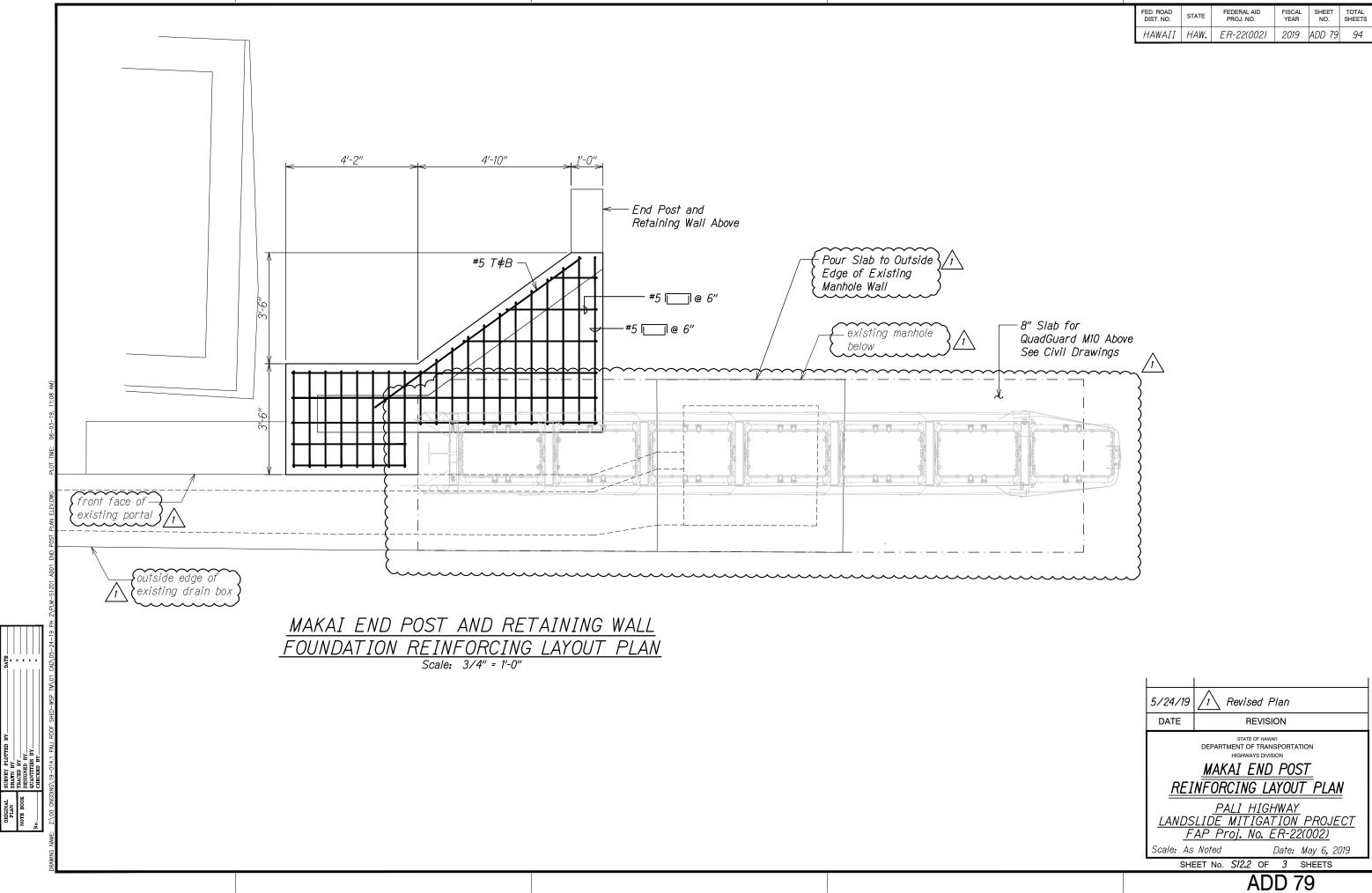


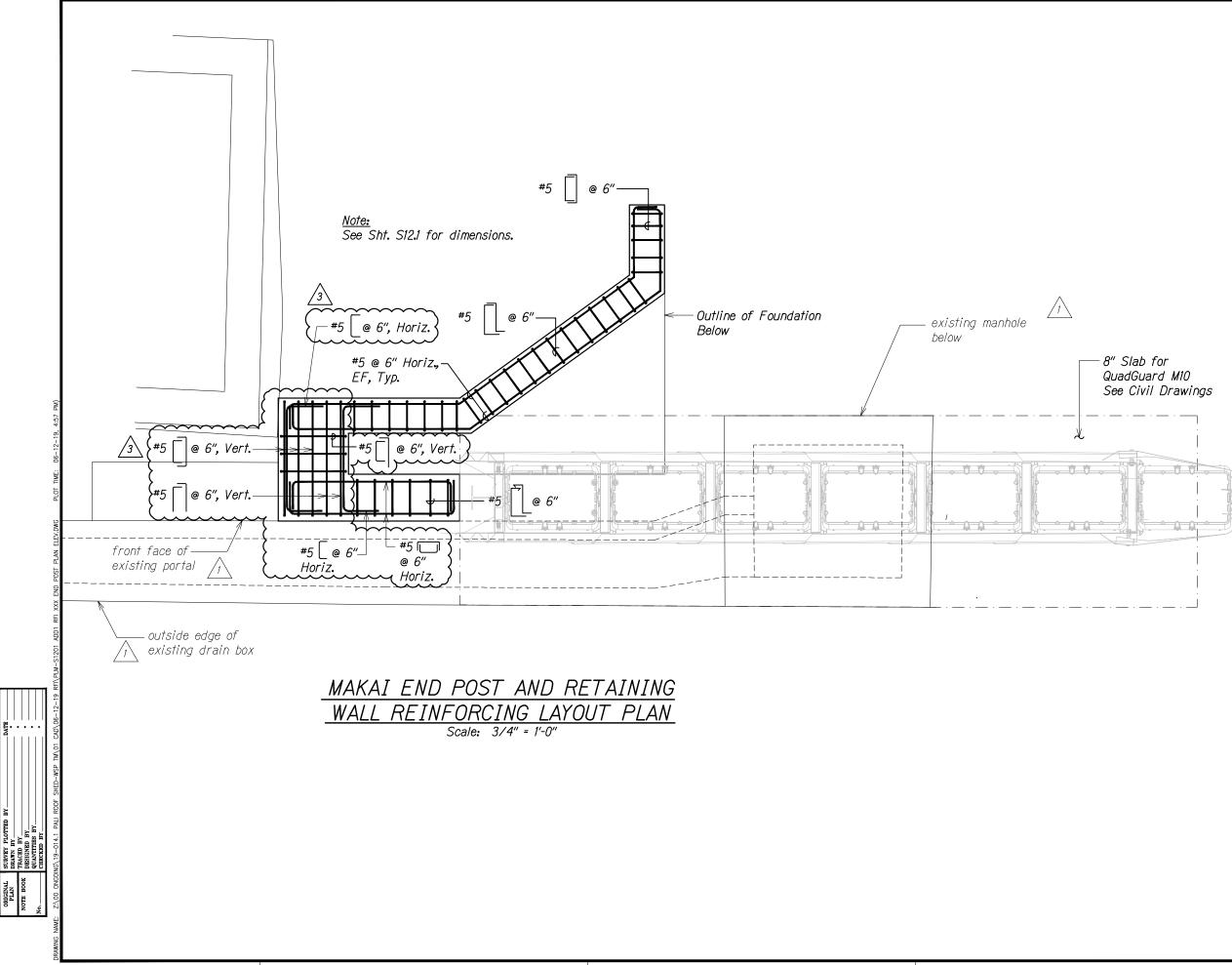
FED. ROAD DIST. NO.STATEFEDERAL AID PROJ. NO.FISCAL YEARSHEET NO.TOTAL SHEETSHAWAIIHAW.ER-22(002)2019ADD 7894						
HAWAII HAW. ER-22(002) 2019 ADD 78 94		STATE				
	HAWAII	HAW.	ER-22(002)	2019	ADD 78	94

- Finish Grade

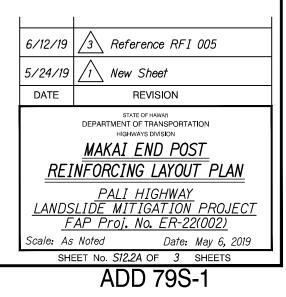


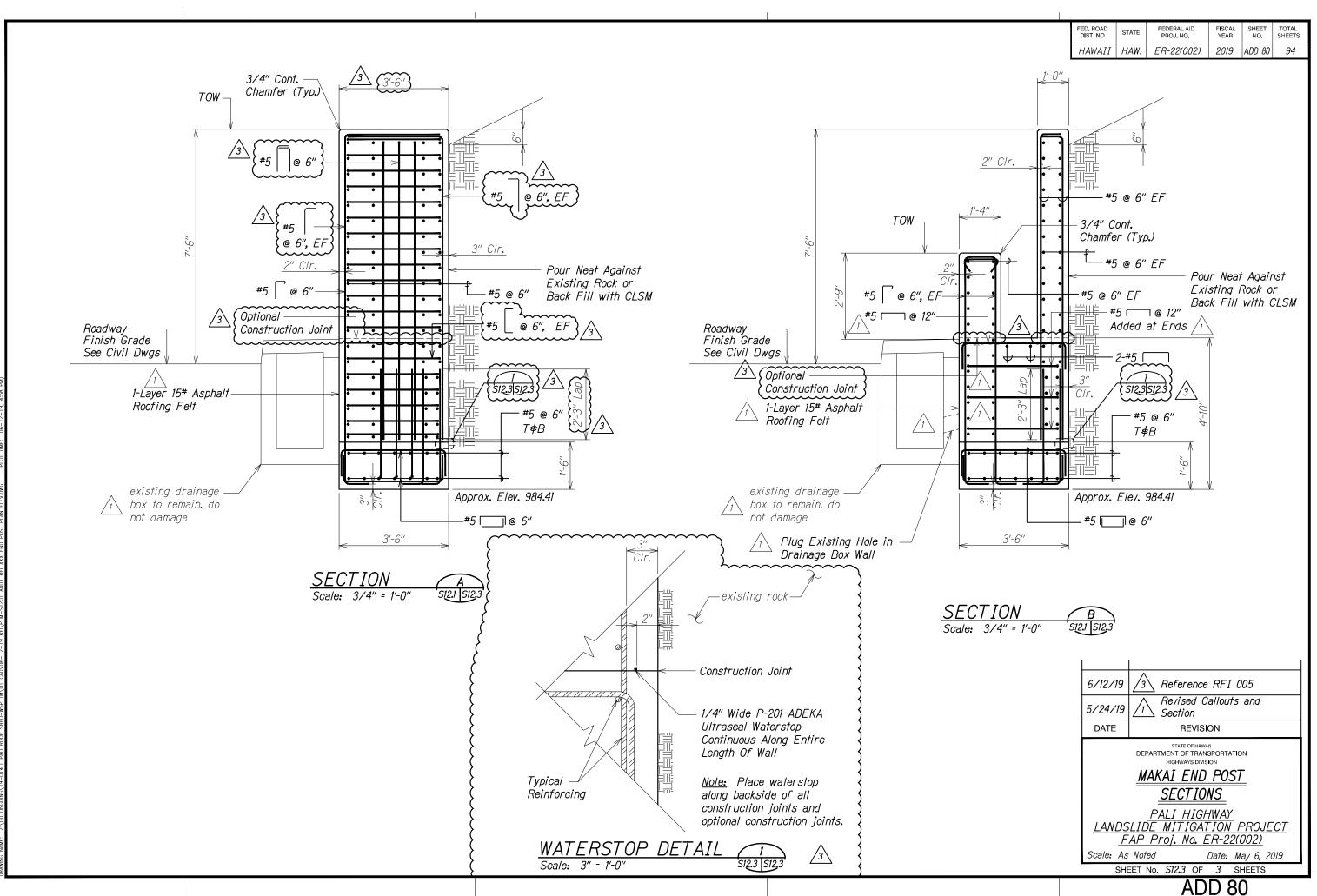


FED. ROAD DIST. NO.STATEFEDERALAID PROJ. NO.FISCAL YEARSHEET NO.TOTAL SHEETSHAWAIIHAW.ER-22(002)2019ADD 7994						
HAWAII HAW. ER-22(002) 2019 ADD 79 94		STATE				
	HAWAII	HAW.	ER-22(002)	2019	ADD 79	94

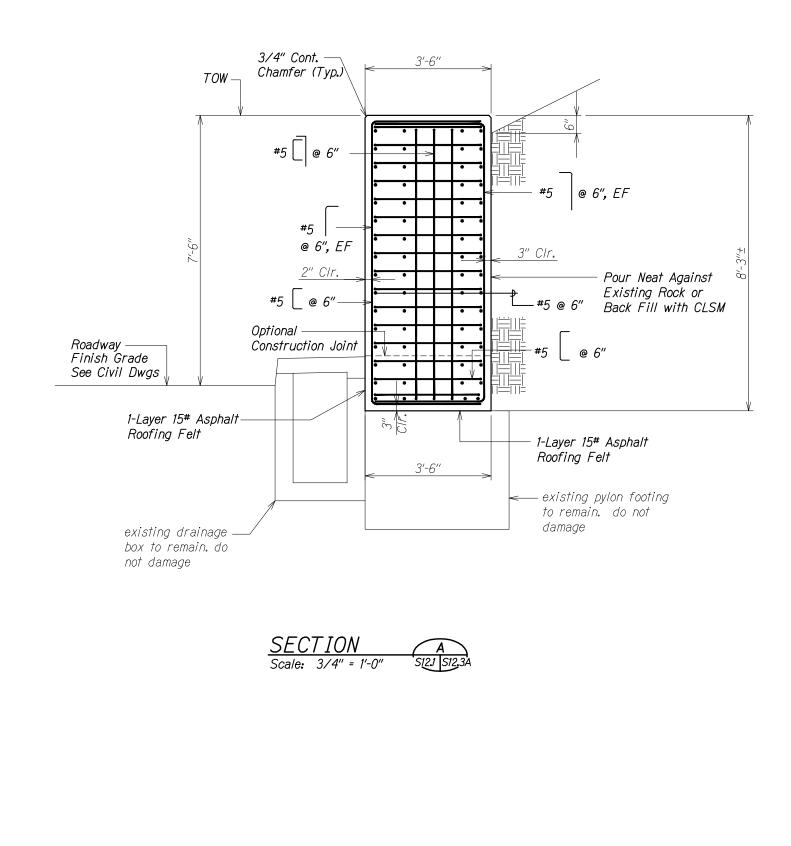


FED. ROAD DIST. NO.STATEFEDERALAID PROJ. NO.FISCAL YEARSHEET NO.TOTAL SHEETSHAWAIIHAW.ER-22(002)2019ADD 795-194						
HAWAII HAW. ER-22(002) 2019 ADD 795-1 94		STATE				
	HAWAII	HAW.	ER-22(002)	2019	ADD 79S-1	94

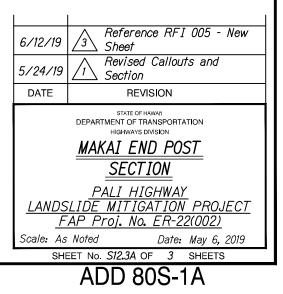


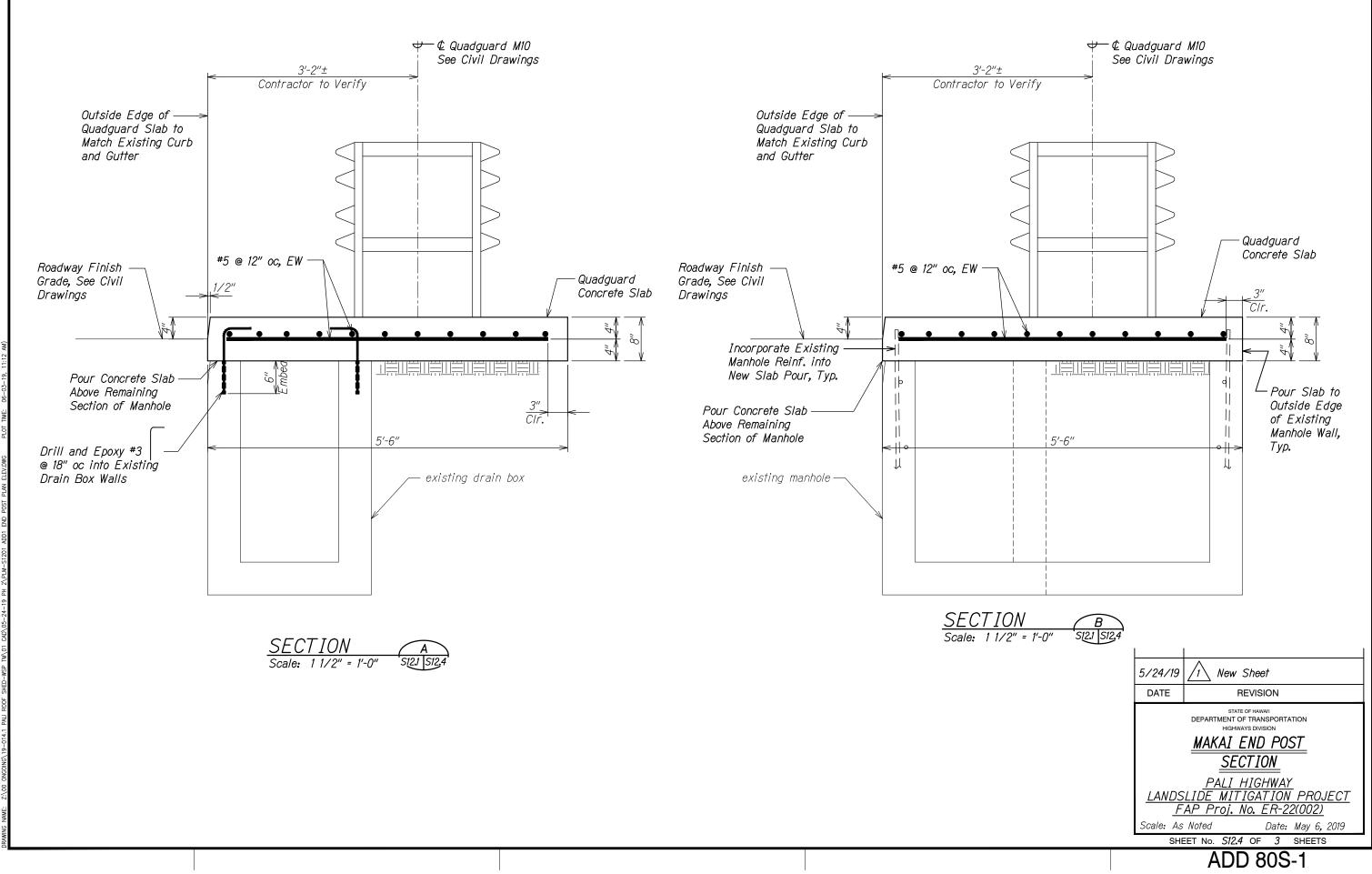


ORGINAL SURVEY PLOTTED BY DATE PLAN TRANK BY TOTTED BY DASSINGTON BY CONTROL 81. VO SURVEY DRAWN TRACED DESIGNE



FED. ROAD DIST. NO.STATEFEDERAL AID PROJ. NO.FISCAL YEARSHEET NO.TOTAL SHEETSHAWAIIHAW.ER-22(002)2019ADD 80S-1A94						
HAWAII HAW. ER-22(002) 2019 ADD 805-1A 94		STATE				
	HAWAII	HAW.	ER-22(002)	2019	ADD 80S-1A	94



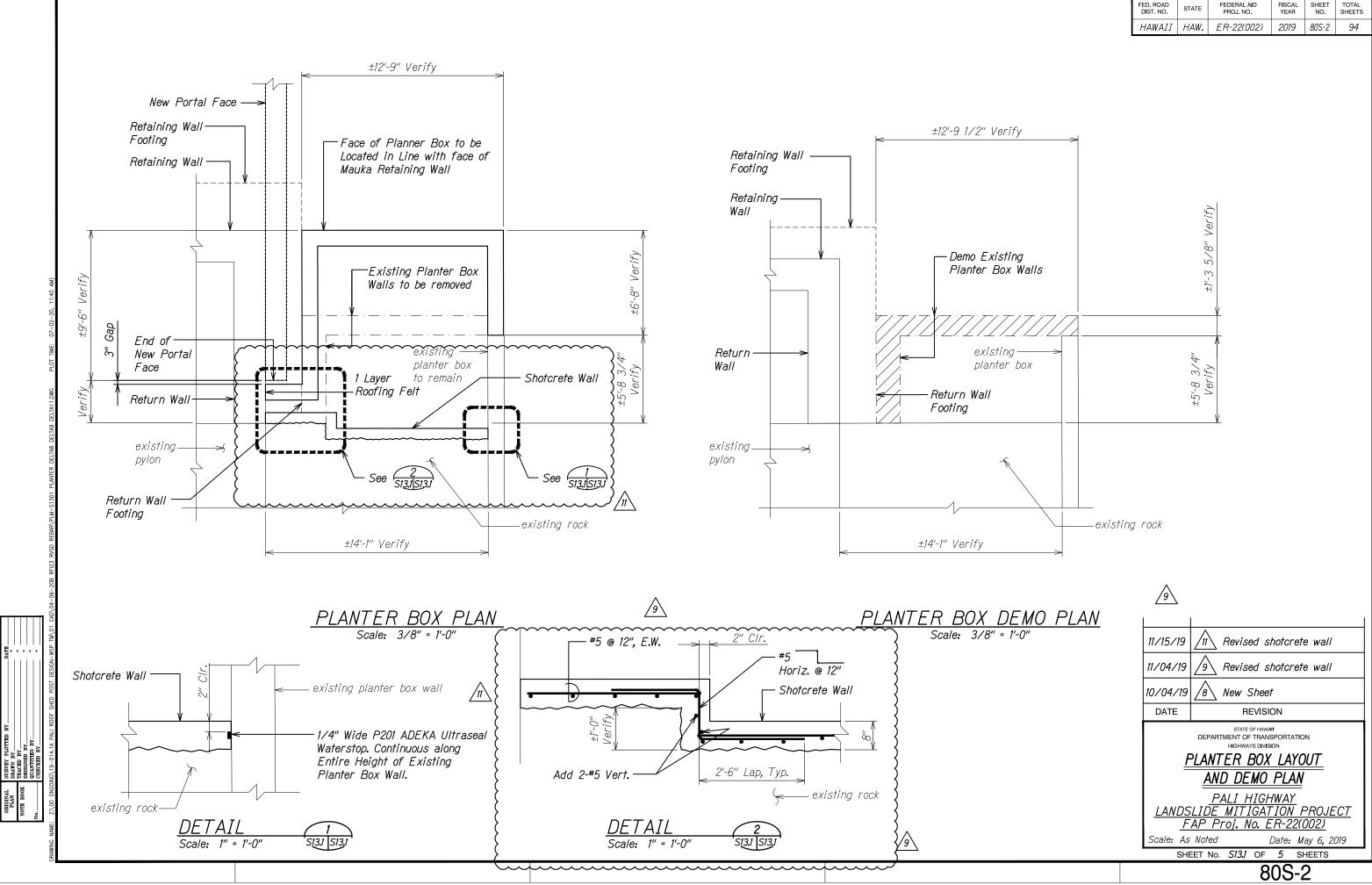


LINE CONTRACTOR

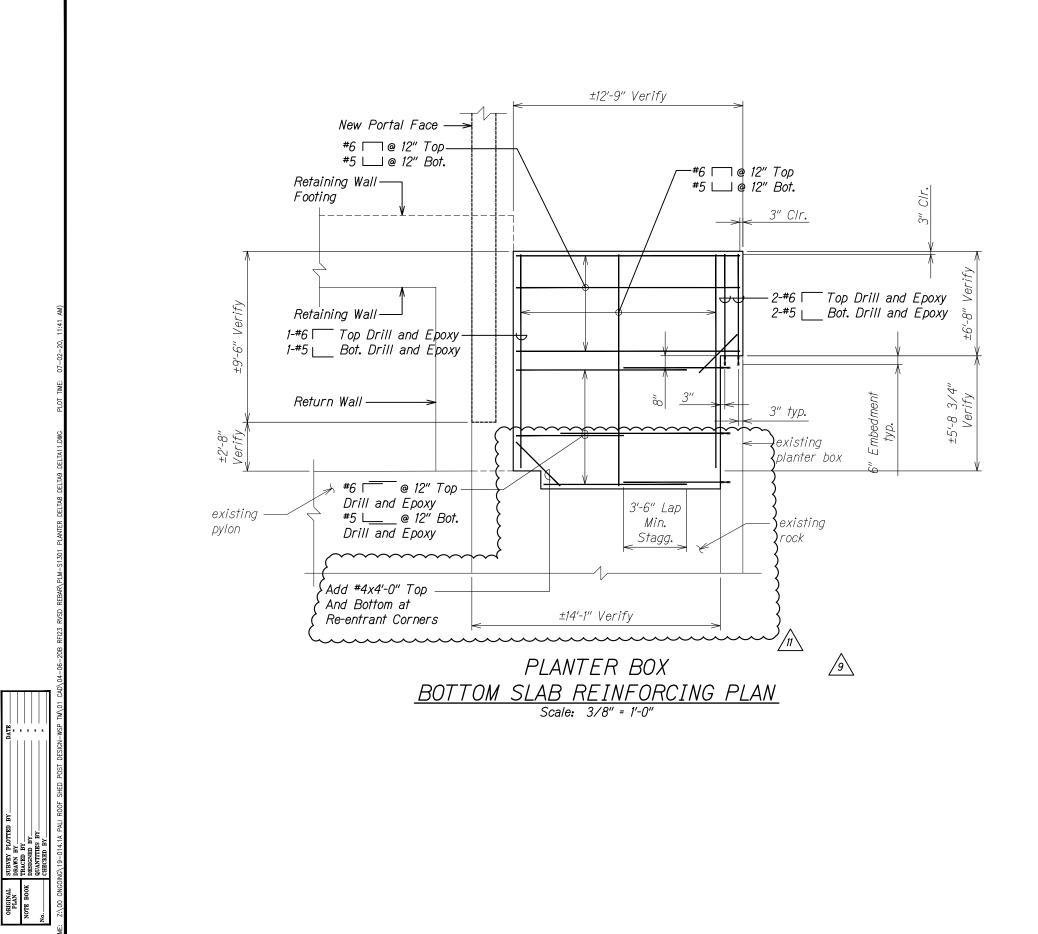
<u>|</u>||||

SURVEY PLO' DRAWN BY ____ TRACED BY __ DESIGNED BY __

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	ADD 80S-1	94

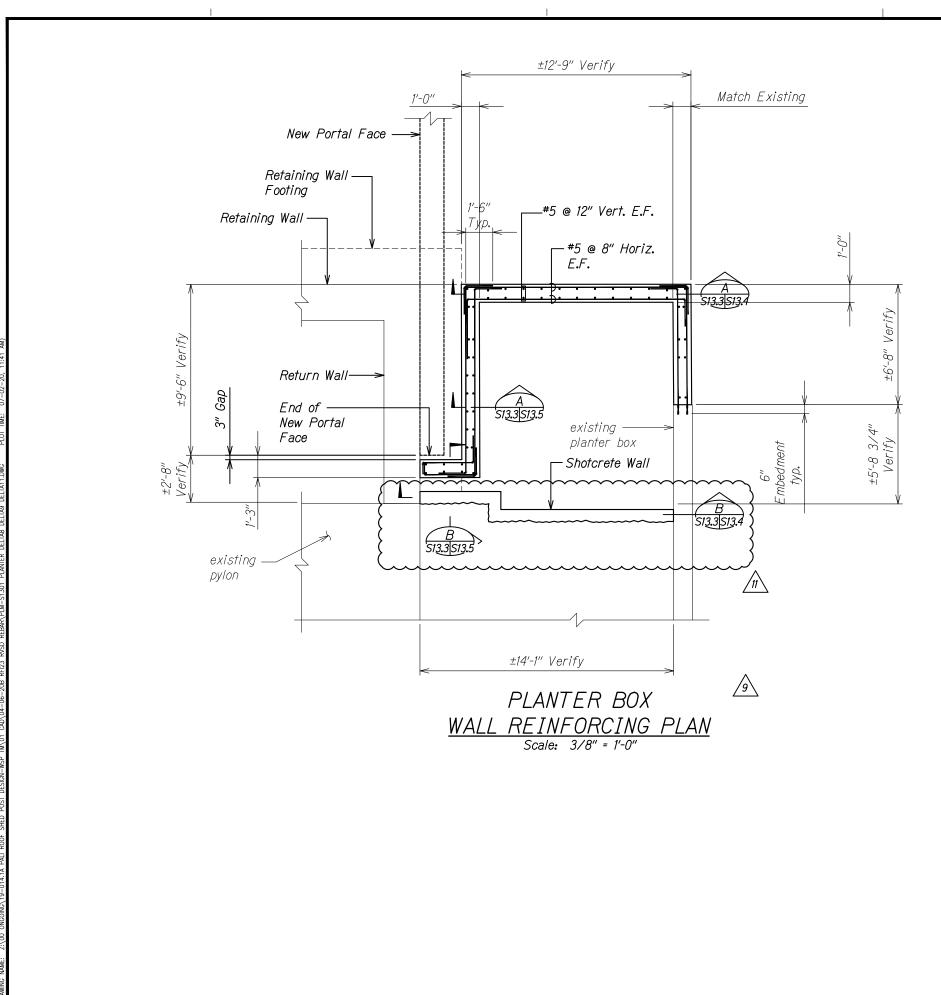


FED. ROAD DIST. NO.STATEFEDERAL AID PROJ. NO.FISCAL YEARSHEET NO.TOTAL SHEETSHAWAIIHAW.ER-22(002)201980S-294						
HAWAII HAW. ER-22(002) 2019 80S-2 94		STATE				
	HAWAII	HAW.	ER-22(002)	2019	80S-2	94



FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-3	94

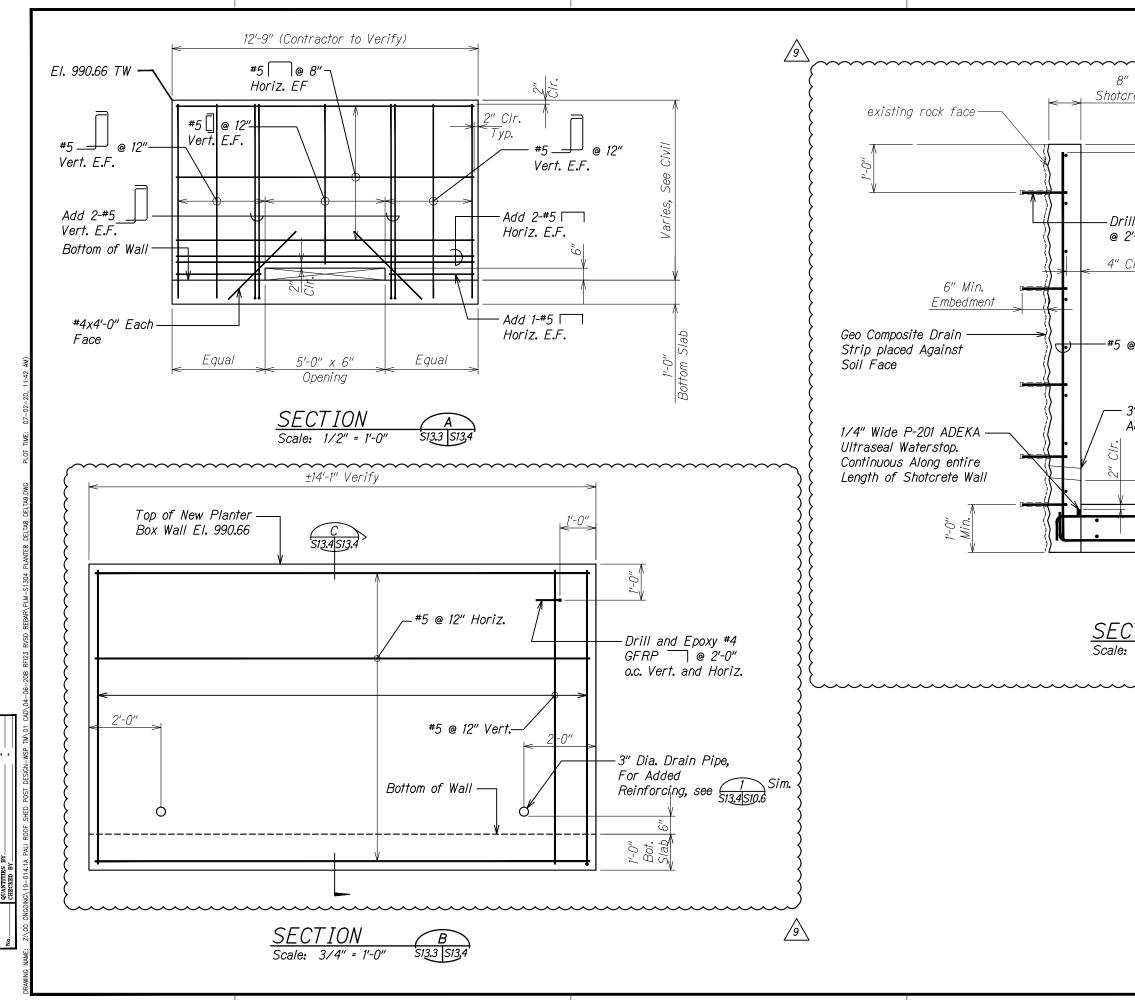
11/15/19	1 Revised Bot. Slab Reinf.						
11/04/19	9 Revised shotcrete wall						
10/04/19	8 New Sheet						
DATE	REVISION						
PLANTER BOX BOTTOM SLAB <u>REINFORCING PLAN</u> PALI HIGHWAY							
LANDSLIDE MITIGATION PROJECT FAP Proj. No. ER-22(002) Scale: As Noted Date: May 6, 2019							
SHEET No. S13.2 OF 5 SHEETS							
	80S-3						



DATTR SURVEY PLOTTED E DRAWN BY TRACED BY DESIGNED BY DIANTTES BY ORIGINAL PLAN NOTE BOOK

	FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	ER-22(002)	2019	80S-4	94
-						

11/15/19	11 Revised shotcrete wall				
11/04/19	9 Revised shotcrete wall				
10/04/19	8 New Sheet				
DATE	REVISION				
<u>F</u> Scale: As	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PLANTER BOX WALL REINFORCING PLAN PALI HIGHWAY CLIDE MITIGATION PROJECT AP Proj. No. ER-22(002) Noted Date: May 6, 2019 EET No. \$13,3 OF 5 SHEETS				
80S-1					



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SURVEY PLOTTED DRAWN BY TRACED BY DESIGNED BY QUANTIES BY ORIGINAL PLAN NOTE BOOK

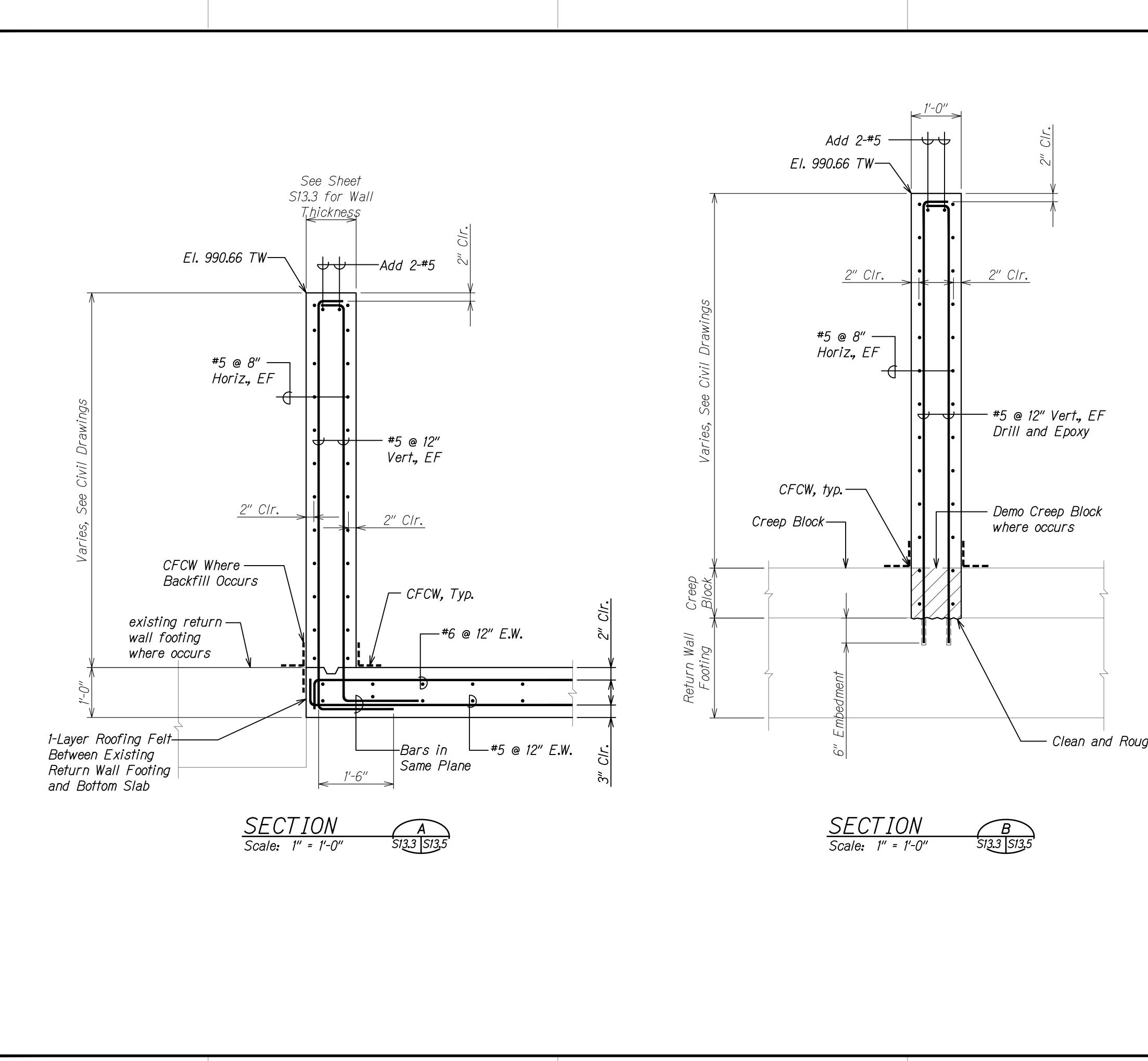
		FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		HAWAII	HAW.	ER-22(002)	2019	805-5	94
<u>s" :</u>	~~~~	~~~~	~~~~	~~~~~	~~~~	~~~~	
rill and Epoxy 2'-0" o.c. Vern <u>CIr.</u>	* #4 GFRI	riz.					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
@ 12″ E.W.							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3" Dia. Drain Added Reinfo	-#6 @ 12' -#6 @ 12' -#5 @ 12'	e <u>5134510</u> , ' E.W.		om Slab	3" Clr. > < > 3" Clr.	× <i>1/-0//</i>	
<u>CTION</u> 9: 1" = 1'-0"	SI3.4	C 1 513,4	~~~				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		-	/19 <u>8</u> DEF	Revised s New Shee REVISI STATE OF HAMA STATE OF HAMA METMENT OF TRAN HIGHWAYS DIVIS TER BOX PALI HIGH E MITIGAT Proj. No. E	t ON SPORTATIC ION SECT. TWAY	» <u>IONS</u> PROJE	<u></u>

Scale: As Noted

Date: May 6, 2019

80S-5

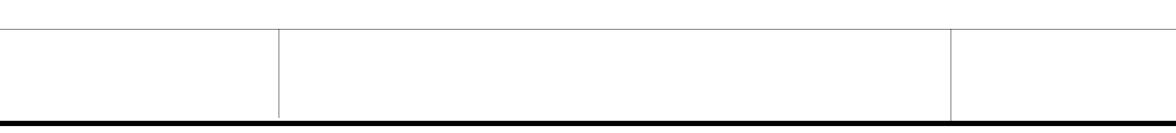
SHEET No. S13.4 OF 5 SHEETS



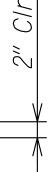
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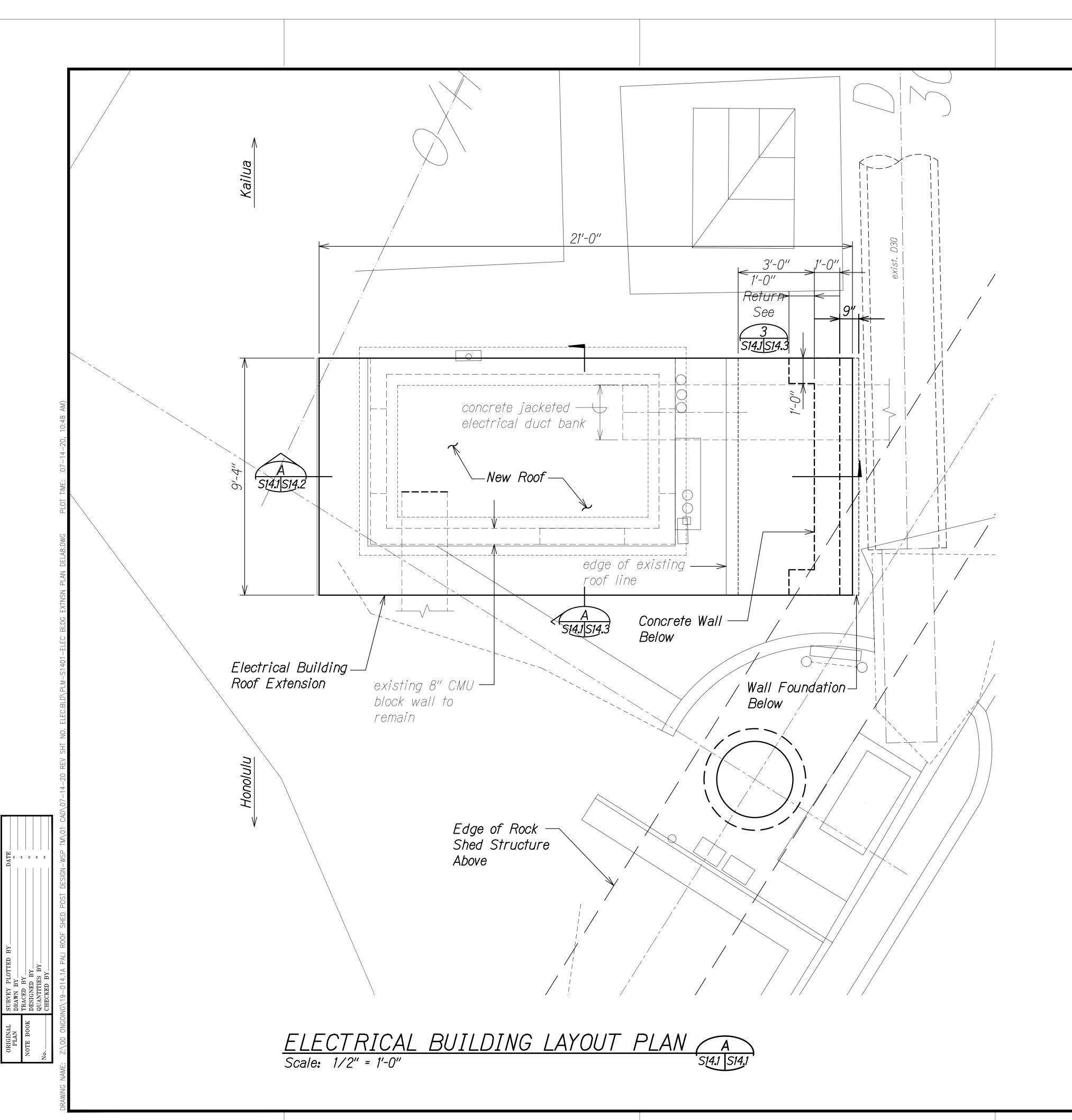


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-6	94



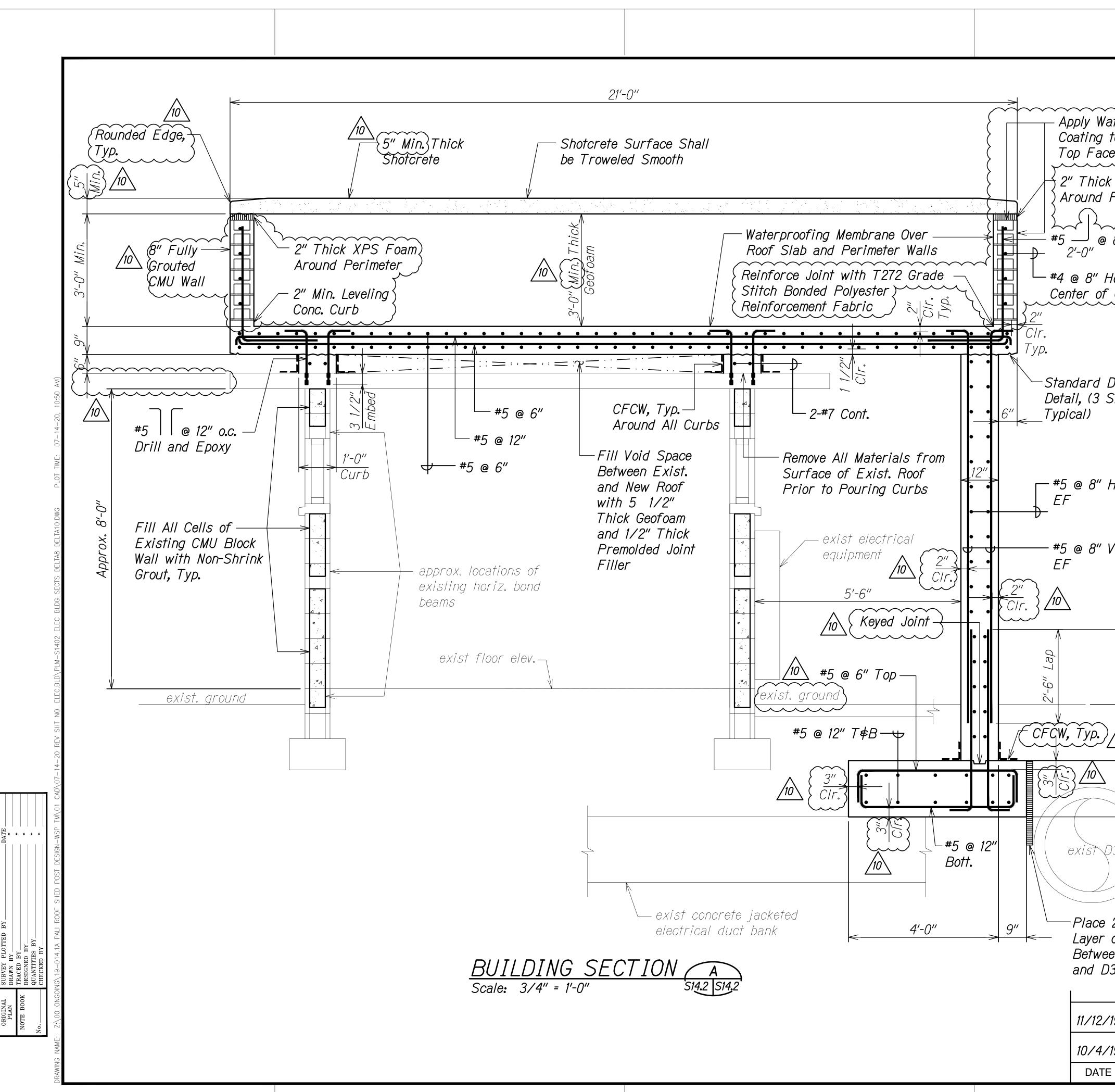
- Clean and Roughen





10/4/19	8 New Sheet	STATE OF HAWAI DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>ELECTRICAL BUILDING</u> <u>LAYOUT PLAN</u> <u>PALI HIGHWAY</u> <u>LANDSLIDE MITIGATION PROJECT</u> <u>FAP Proj. No. ER-22(002)</u> Scale: As Noted Date: May 6, 2019
DATE	REVISION	SHEET NO. S14.1 OF 3 SHEETS
		80S-7

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-7	94



D30 ELECTRICAL BUILDING SECTION 2/19 10 Replace Conc. Walls with CMU 4/19 8 New Sheet A/19 8 A/19 8 B New Sheet								
HAWAII HAW. ER-28/0021 20/9 865-8 04 Water Repetient to Exterior and ce of CMU Walls Notes: I Contractor to field verify depth of exist. concrete jacketed electrical duct bank. I Contractor to field verify depth of exist. concrete jacketed electrical duct bank. I Contractor to assume existing grouted calls to be filled with high-performance non-shrink grout. Contractor to assume existing grouted blocks are located at horizontal bond beams and at 24° u.c. vertical height of block, and between bond beams, are filled with grout. Drip Sides I Non-shrink grout shall be Dayton Superior Sure-Grip. Drip Sides Nortar shall comply with ASTM C90 and shall be high-strength with a minimum 28-day compressive strength of 3750 psi. I Nortar shall comply with Type M, in accordance with ASTM C270 and have a minimum 28-day compressive strength of 2,500 psi. I Joints shall be tooled with a concave shape. I Grout shall comply with ASTM C476 and shall be a coarse type grout with at minimum 28-day compressive strength of 2,500 psi. I Water repellant coating shall be Diedrich 303S I/W Replace Conc. Walls with CMU V19 Replace Conc. Walls with CMU V19 Replace Conc. Walls with CMU V19 Revision V19 New Sheet V19				STATE				
It D Exterior and (as of CMU Wall) I. Contractor to field verify depth of exist. concrete jacketed electrical duct bank. Perimeter I. Contractor to field verify depth of exist. concrete jacketed electrical duct bank. Perimeter I. Existing CMU walls of electrical building are partially grouted. All remaining ungrouted cells to be filled with high-performance non-shrink grout. Contractor to assume existing grouted blocks are located at horizontal bond beams and at 24" o.e. vertically. Horiz, at (CNU Block) I. Locate access points in CMU such that entire vertical height of block, and between bond beams, are filled with grout. Drip S. Locate access points in CMU such that entire vertical height of block, and between bond beams, are filled with grout. Drip S. New CMU blocks shall comply with ASTM C90 and shall be high-strength with a minimum 28-day compressive strength of 3,750 psi. Horiz, Nortar shall comply with Type M, in accordance with ASTM C270 and have a minimum 28-day compressive strength of 2,500 psi. Horiz, Nortar shall comply with ASTM C476 and shall be a coreare stype grout with a minimum 28-day compressive strength of 4,000 psi. Vert, S. Joints shall be tooled with a concave shape. 9. Grout shall comply with ASTM C476 and shall be a coreare stype grout with a minimum 28-day compressive strength of 4,000 psi. 10. Water repellant coating shall be Diedrich 303S Siloxeeal. 10. Water repellant coating shall be Diedrich 303S <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
A: XPS Foam 1. Contractor for link verify depth of exist. Contractor to jackated electrical duct bank. Perimeter 2. Existing CMU walls of electrical building are partially grouted. All remaining ungrouted cells to be filled with high-performance non-shrink grout. Contractor to assume existing grouted blocks are located at horizontal bond beams and at 24" o.c. vertically. Horiz, at f CMU Block 3. Locate access points in CMU such that entire vertical height of block, and between bond beams, are filled with grout. Drip 5. New CMU blocks shall be Dayton Superior Sure-Grip. Drip 5. New CMU blocks shall comply with ASTM C90 and shall be high-strength with a minimum 28-day compressive strength of 3,750 psi. 6. New CMU blocks shall be 6x8xl6 Double Open End except at corner s Mackl6 Corner Knock Out and 8x8x8 Knock Out Half are acceptable. 7. Mortar shall comply with Type M, in accordance with ASTM C200 psi. 8. Joints shall be tooled with a concave shape. 9. Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi. 10. Water repellant coating shall be Diedrich 303S Siloxeeal. 200 210 22 23 24" Thick	to Exterior and	<u>Notes:</u>						
 Existing CMU wails of electrical building are partially grouted. All remaining ungrouted cells to be Tilled with high-performance non-shrink grout. Contractor to assume existing grouted blocks are located at horizontal bond beams and at 24" oz. vertically. Locate access points in CMU such that entire vertical height of block, and between bond beams, are filled with grout. Locate access points in CMU such that entire vertical height of blocks shall be Dayton Superior Sure-Grip. Non-shrink grout shall be Dayton Superior Sure-Grip. New CMU blocks shall comply with ASTM C90 and shall be high-strength with a minimum 28-day compressive strength of 3,750 psi. New CMU blocks shall comply with ASTM C90 and 8x88 Knock Out Half are acceptable. Mortar shall comply with Type M, in accordance with ASTM C210 and have a minimum 28-day compressive strength of 2,500 psi. Joints shall be tooled with a concave shape. Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi. Water repellant coating shall be Diedrich 303S Siloxceal. Water repellant coating shall be Diedrich 303S Siloxceal. Water repellant coating shall be Diedrich Project FAP Proj. No. EEP-220022 Revision New Sheet Revision Sealer As Noted Date Med Carl Aster Cortained the spectrum of the project FAP Proj. No. EEP-220022 Sealer As Noted Deter May 6, 2009 Seleter No. SM2 OF 3 shears 				-	•	xist. c	oncrete	9
 Locate access points in CMU such that entire vertical height of block, and between bond beams, are filled with grout. Non-shrink grout shall be Dayton Superior Sure-Grip. Drip Sides Non-shrink grout shall be Dayton Superior Sure-Grip. New CMU blocks shall comply with ASTM C90 and shall be high-strength with a minimum 28-day compressive strength of 2,500 psi. New CMU blocks shall comply with Type M, in accordance with ASTM C270 and have a minimum 28-day compressive strength of 2,500 psi. Joints shall be tooled with a concave shape. Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi. Water repellant coating shall be Diedrich 303S Siloxseal. 	@ 8" Vert.	grouted. with high assume e	All remai -performa xisting gr	ning u nce no outed	ngrouted ce n-shrink gro blocks are i	lls to l put. C located	be fille contrac ' at	ed
Drip Sides 5. New CMU blocks shall comply with ASTM C90 and shall be high-strength with a minimum 28-day compressive strength of 3,750 psi. Horiz, 6. New CMU blocks shall be 8x8x16 Double Open End except at corners where 8x8x16 Corner Knock Out and 8x8x8 Knock Out Half are acceptable. Yert, 7. Mortar shall comply with Type M, in accordance with ASTM C270 and have a minimum 28-day compressive strength of 2,500 psi. 8. Joints shall be tooled with a concave shape. 9. Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi. 10. Water repellant coating shall be Diedrich 303S Siloxseal. 000 10. 10. Water repellant coating shall be Diedrich 303S Siloxseal. 11. Water repellant coating shall be Diedrich 303S Siloxseal. 12. ELECTRICAL BUILDING SECTION Mainter Children Caliboration Mainter Children Mainter Children Ma	ζ.	height of	block, and					
Sides Image: Sides S. New CMU blocks shall comply with ASIM C90 and shall be high-strength with a minimum 28-day compressive strength of 3,750 psi. I Horiz, Image: Sides Image: Sides I I Horiz, Image: Sides Image: Sides I I I Horiz, Image: Sides Image: Sides I I I I Sides </td <td></td> <td>4. Non-shrin</td> <td>k grout s</td> <td>hall be</td> <td>Dayton Su</td> <td>perior</td> <td>Sure-(</td> <td>Grip.</td>		4. Non-shrin	k grout s	hall be	Dayton Su	perior	Sure-(Grip.
Horiz, except at corners where 8x8x16 Corner Knock Out and 8x8x8 Knock Out Haif are acceptable. Vert, 7. Mortar shall comply with Type M, in accordance with ASTM C270 and have a minimum 28-day compressive strength of 2,500 psi. 8. Joints shall be tooled with a concave shape. 9. Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi. 9. Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi. 10. Water repellant coating shall be Diedrich 303S Siloxseal. 9. Good shall comply with Could accept the strength of 4,000 psi. 10. Water repellant coating shall be Diedrich 303S Siloxseal. 9. Geofoam reen Footing D30 10. Replace Conc. Walls with CMU 11. Replace Conc. Walls with CMU 12. PALI HIGHWAY LANDSLIDE MITIGATION PROJECT FAP Proj. No. ER-22(002) Scale: As Noted 11. REVISION	' /\ /	shall be i	high-stren	gth wi	th a minimu			1
ASTM C270 and have a minimum 28-day compressive strength of 2,500 psi. 8. Joints shall be tooled with a concave shape. 9. Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi. 10. Water repellant coating shall be Diedrich 303S Siloxseal. 10. Water repellant coating shall be Diedrich 303S Siloxseal. 11. Water repellant coating shall be Diedrich 303S Siloxseal. 12. Water repellant coating shall be Diedrich 303S Siloxseal. 13. Water repellant coating shall be Diedrich 303S Siloxseal. 14. Water repellant coating shall be Diedrich 303S Siloxseal. 15. Water repellant coating shall be Diedrich 303S Siloxseal. 16. Water repellant coating shall be Diedrich 303S Siloxseal. 17. Water repellant coating shall be Diedrich 303S Siloxseal. 18. Water repellant coating shall be Diedrich 303S Siloxseal. 19. Water repellant coating shall be Diedrich 303S Siloxseal. 10. Water repellant coating shall be Diedrich 303S 10. Water repellant coating shall be Diedrich 303S	' Horiz.,	except at	corners	where	8x8x16 Corr	ner Kno		
9. Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi. 10. Water repellant coating shall be Diedrich 303S Siloxseal. 10. Water repellant coating	Vert.,	ASTM C2	70 and ha	ve a n	• • •			
Coarse type grout with a minimum 28-day compressive strength of 4,000 psi. 10. Water repellant coating shall be Diedrich 303S Siloxseal. 10. Bernand Coating Diedrich 100 PROJECT FAP Proj. No. ER-22(002) Scale: As Noted Date: May 6, 2019 SHEET No. SIA2 OF 3 SHEETS		8. Joints sh	all be tool	ed wit	h a concave	shape	9.	
Image: Strate of Hawaii Image: Strate of Geofoarm Image: Strate of Hawaii		coarse ty	be grout v	with a				
Image: State of Hawan Image: State of Hawan <td< td=""><td></td><td></td><td></td><td>ting si</td><td>hall be Died</td><td>rich 3</td><td>035</td><td></td></td<>				ting si	hall be Died	rich 3	035	
r of Geofoam DEPARTMENT OF TRANSPORTATION reen Footing D30 D30 ELECTRICAL BUILDING SECTION P(19) 10 Replace Conc. Walls with CMU PALI HIGHWAY P(19) 10 Revision ELECTRICAL BUILDING SECTION P(19) 10 Revision Exception REVISION Scale: As Noted Date: May 6, 2019 SHEET No. S142 OF 3 SHEETS								
Preen Footing D30 D30 ELECTRICAL BUILDING SECTION ELECTRICAL BUILDING SECTION FROJECT ELECTRICAL BUILDING SECTION FOLICAL BUILDING SECTION ELECTRICA				DEF	PARTMENT OF TRAN	SPORTATIO	ON	
2/19 10 Replace Conc. Walls with CMU LANDSLIDE MITIGATION PROJECT 4/19 8 New Sheet FAP Proj. No. ER-22(002) FE REVISION Scale: As Noted Date: May 6, 2019 SHEET No. S14.2 OF 3 SHEETS	veen Footing D30		<u>ELE</u>	CTRI			SECT	<u>ton</u>
Image: Arrow Sheet Scale: As Noted Date: May 6, 2019 TE REVISION SHEET No. S14.2 OF 3 SHEETS	$\frac{2}{19} 10 \text{Replace Conc.}$	Walls with CM	U <u>LAN</u>		DE MITIGAT	TION I		<u>:CT</u>
				As Not	ed	Date: M	lay 6, 20	019
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