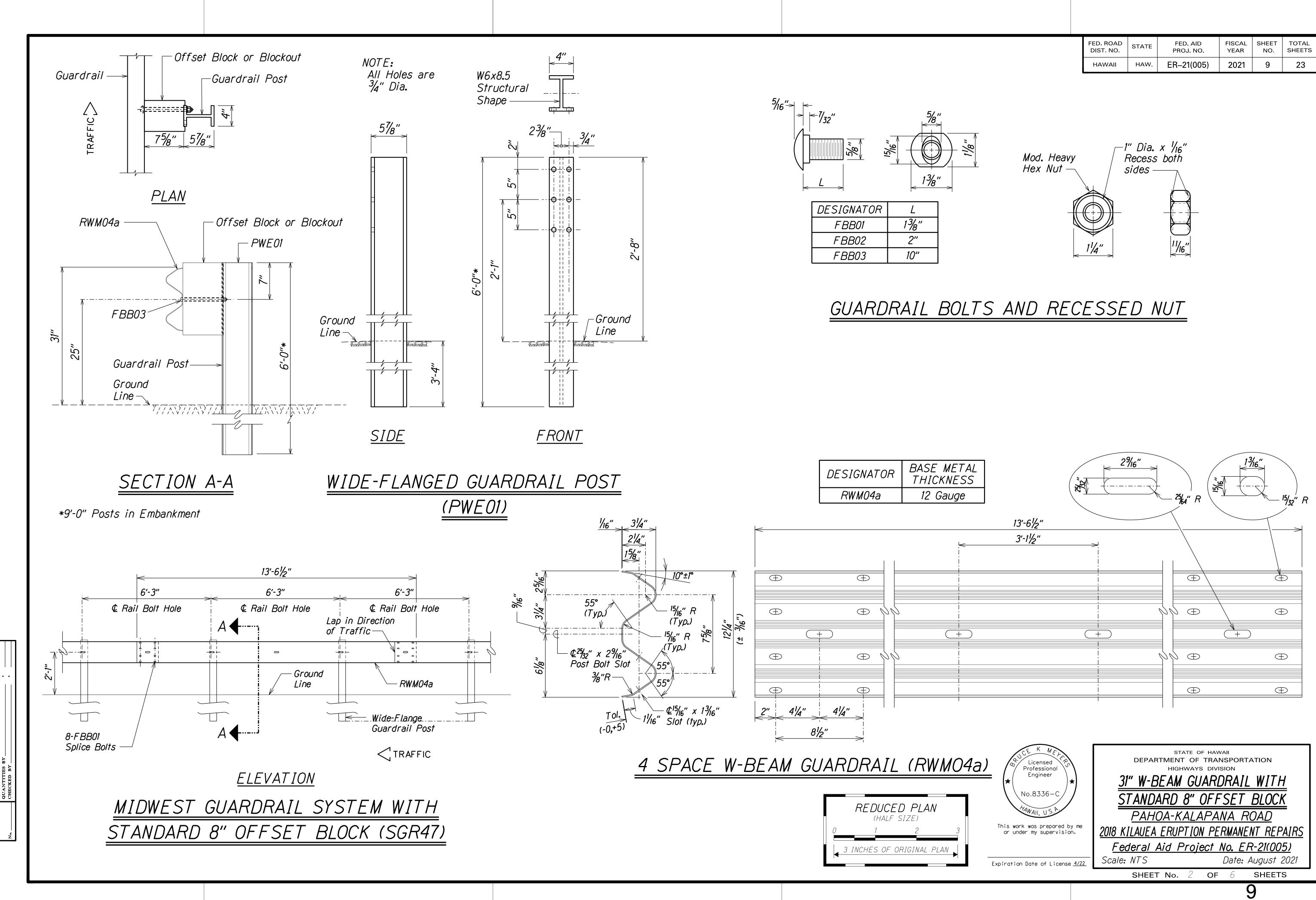
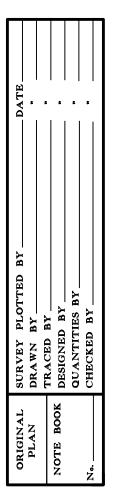
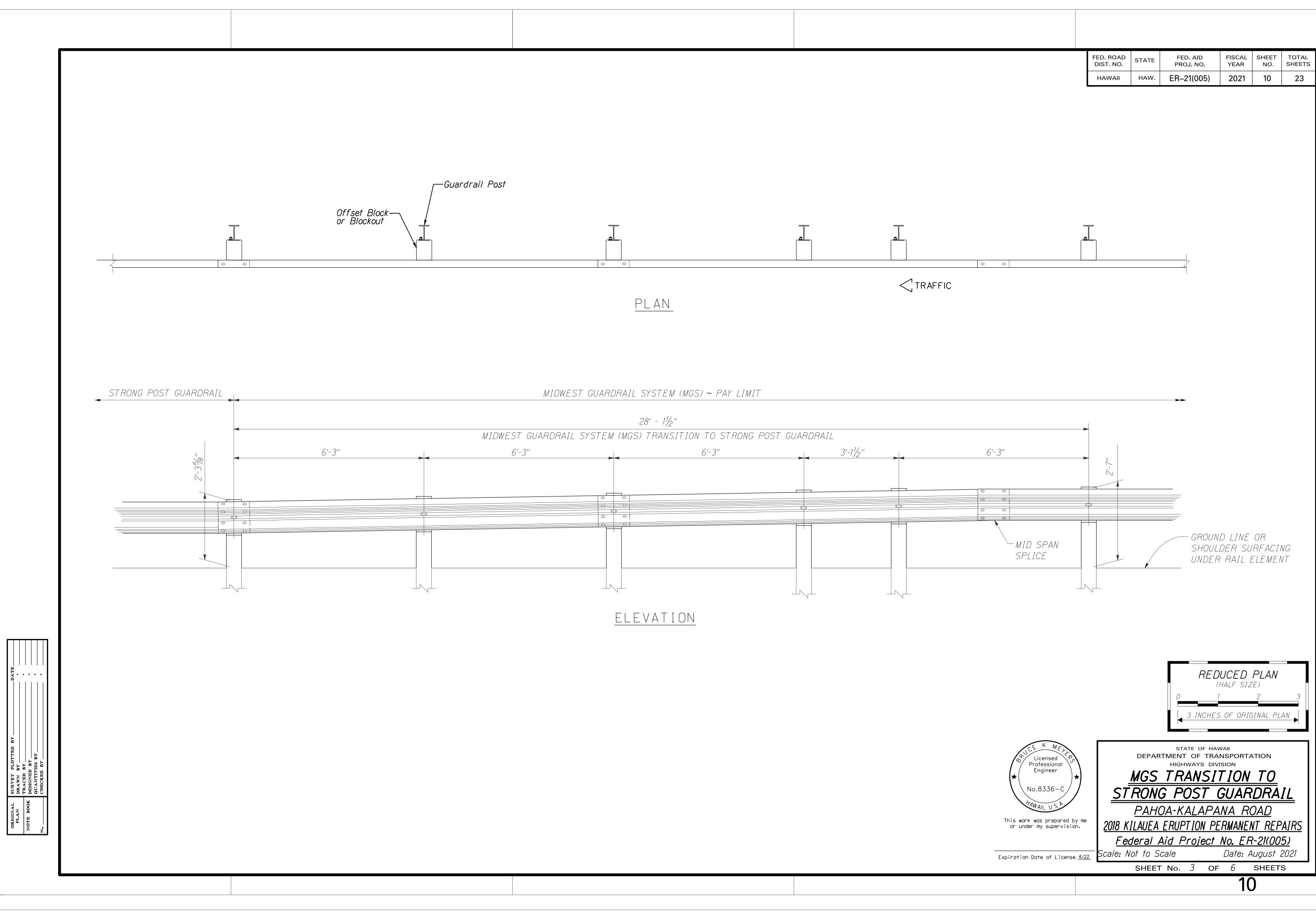


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			FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTA SHEE	
		GENERAL NOTES	HAWAII	HAW.	ER–21(005)	2021	8	23	
	1.	All hardware, posts and	fastener	s shai	l be hot-dig) zinc			
L		coated galvanized after cutting will be permitted	fabricati	ion. N	o punching,		g or		
	2.	Where conditions requir			5	increm	ents		
	2	of 6 inches may be spec	,		5		∩1		
	3.	All fasteners, posts, and RWM04b, etc.) shall conf amendments of "A Guide Rail Hardware", a repor AASHTO-AGC-ARTBA Joi On New Highway Materia of fastners, posts and i metric units into their p	orm to tl to Stand t prepare nt Coopel als, Task rail eleme	he late dardiz ed and rative Force ents ha	st edition a ed Highway approved L Committee, 1 13 Report.	nd Barrie by the Subcom Dimen	er nmittee nsions		
	4.	The Blockout or Offset State.	Block sh	all be	approved b	y the			
	5.	All new guardrail syste guardrail including both Additional Paved Area.	-			•			
	6.	After the guardrail post the Contractor shall fill, and all cracks in the pa- post installation. If rec Contractor shall tamper post prior to filling/sea work shall not be paid to incidental to the various	/seal ard aved area quired by the pave ling. All for separ	ound e cause the ir d area costs ately,	ach guardra ed during th nspector/eng around the associated but shall be	ail post he guat gineer, e guare with f	t rdrail the drail this		
	7.	When standards for the fill slope area cannot be met, a site							
	8.	specific, engineer approved design may be used. Minimum working width (clear distance) between back of MGS							
		post to any fixed object is 4'-1" (49").							
	9.	New Hot Mix Asphalt (F extend 6 feet longitudin	•		•	ls shal	//		
	10.	Reflector Markers (RM-5) mounted on guardrails shall be spaced every 25 feet. RM-5's shall not be installed on Terminal Sections. Furnishing and installing of each RM-5 shall be considered incidental to the guardrail system.							
		GUARDRAIL T	ΥΡΕ		DIMENSI	A			
		MGS w/ Standard 8" C	Offset Blo	ock	H 2'-1'' 1'	A '-6''			
		MGS w/ No Blockout			2'-7/8" 9	1/4"			
2:1	Slope Max.	9				OUCED HALF SIZ 1 5 OF ORIC	2E)	3 .AN	
sting und	7	CE K MEL		DEPAR	STATE OF HAY		ATION		
		 ✓ Professional Engineer ★ 	GUA	RNRA	HIGHWAYS DIV			۶F	
		No.8336-C							
		This work was prepared by me or under my supervision,	<u>2018 K</u>	ILAUEA	DA-KALAPA ERUPTION PL	RMANE	NT REF		
			- Scale.		<u>Aid Project</u>		R-<u>21(00</u> August		
		Expiration Date of License <u>4/2</u>			No. 1 OF	6	SHEET		

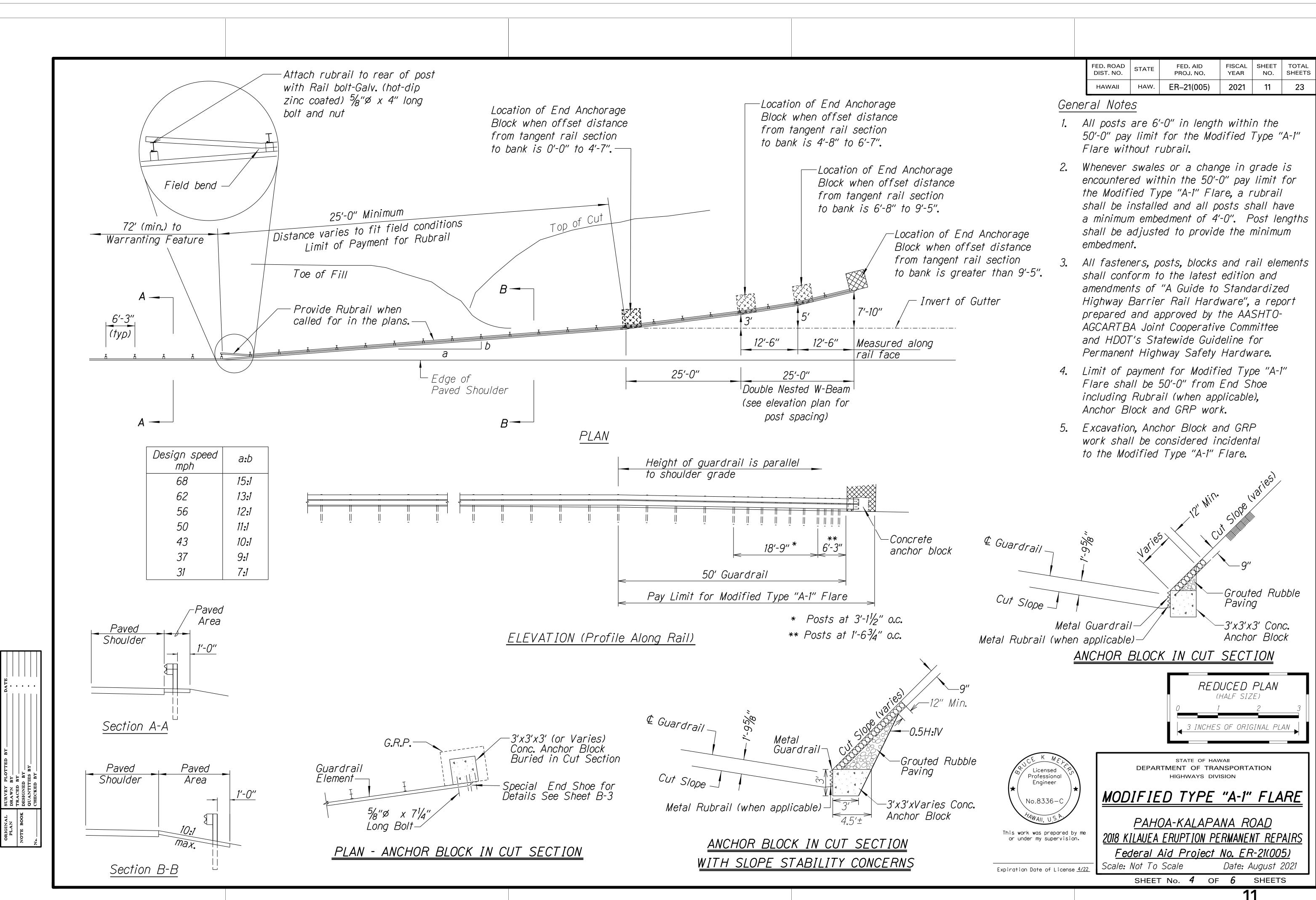




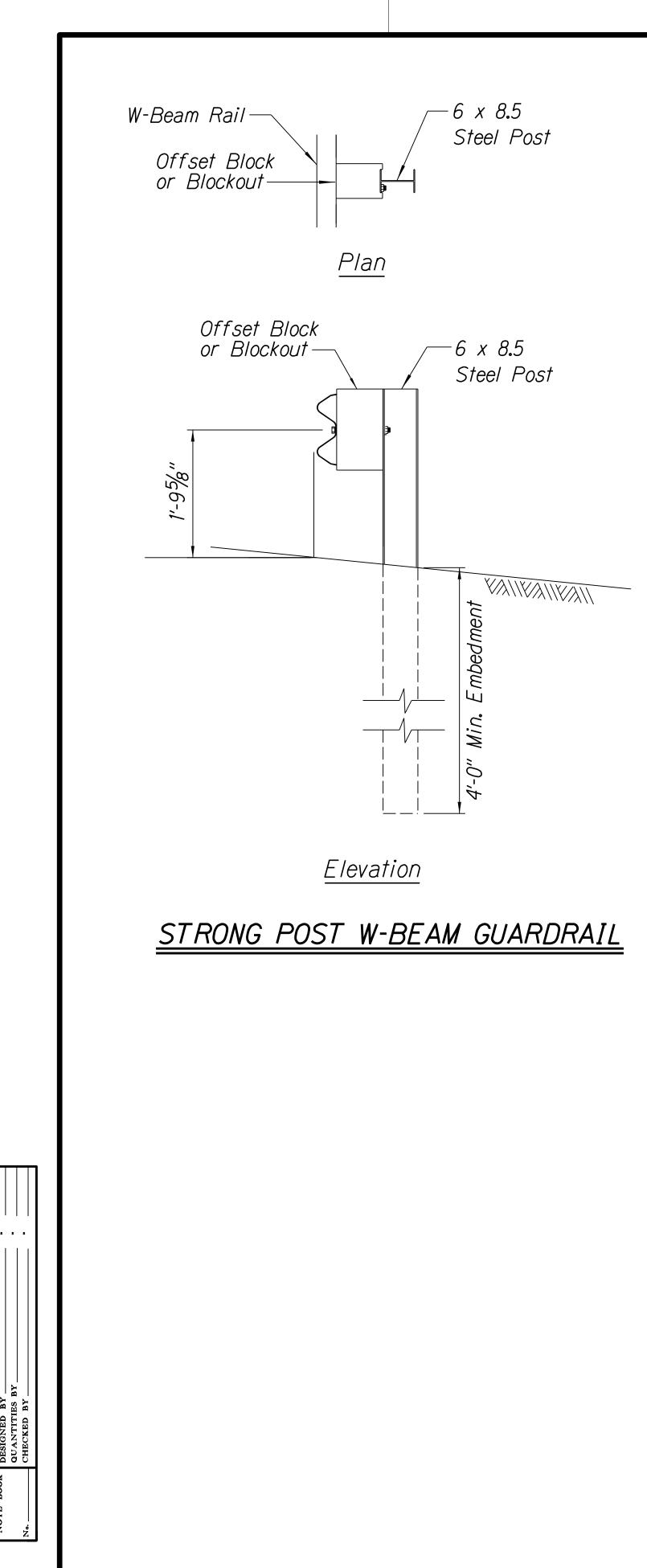
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER–21(005)	2021	9	23



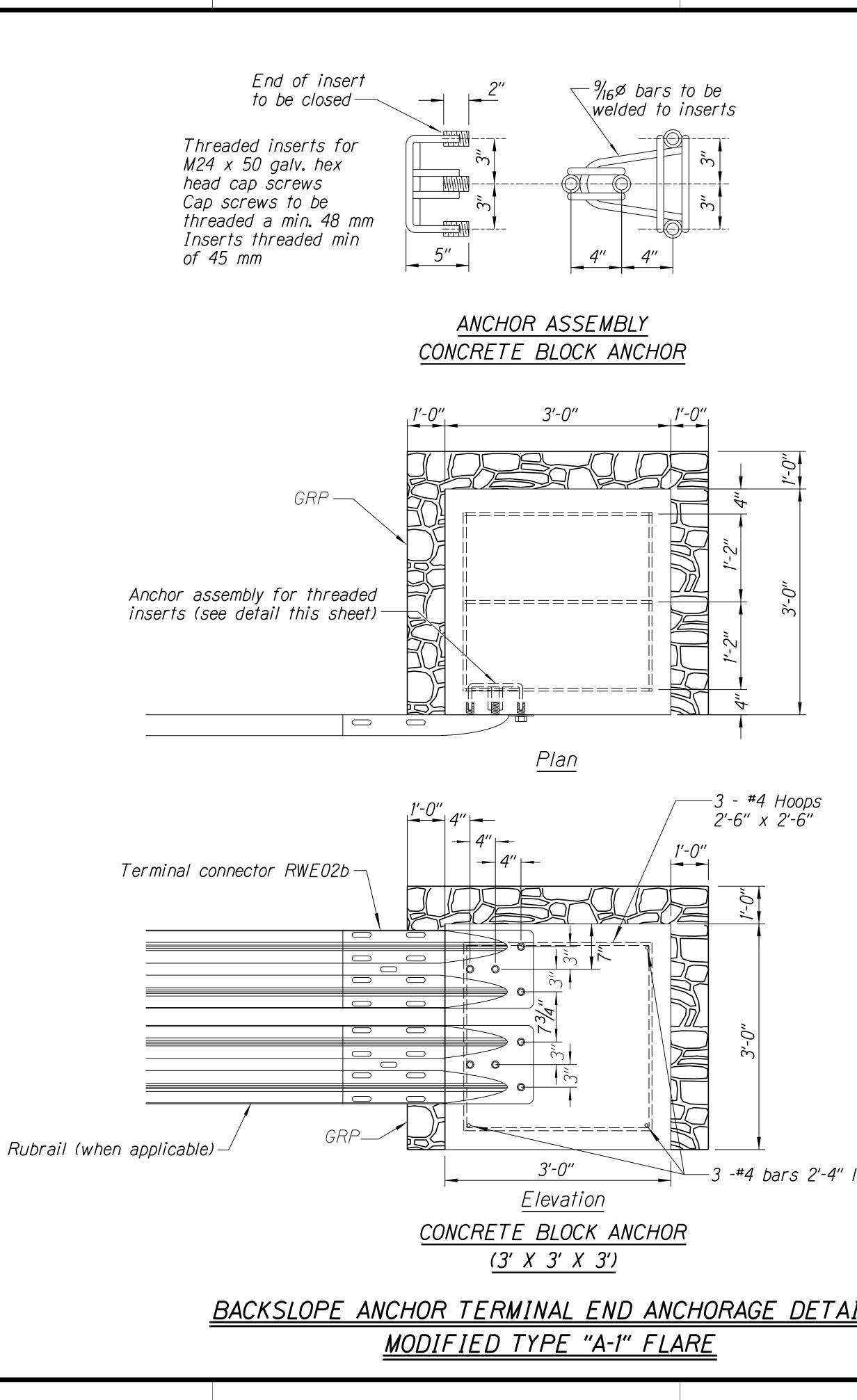
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER–21(005)	2021	10	23



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER–21(005)	2021	11	23



. SURVEY PLOTTE DRAWN BY ______ TRACED BY _____ DESIGNED BY _____ QUANTITIES BY _____ CHECKED BY _____ PLAN PLAN OTE BO

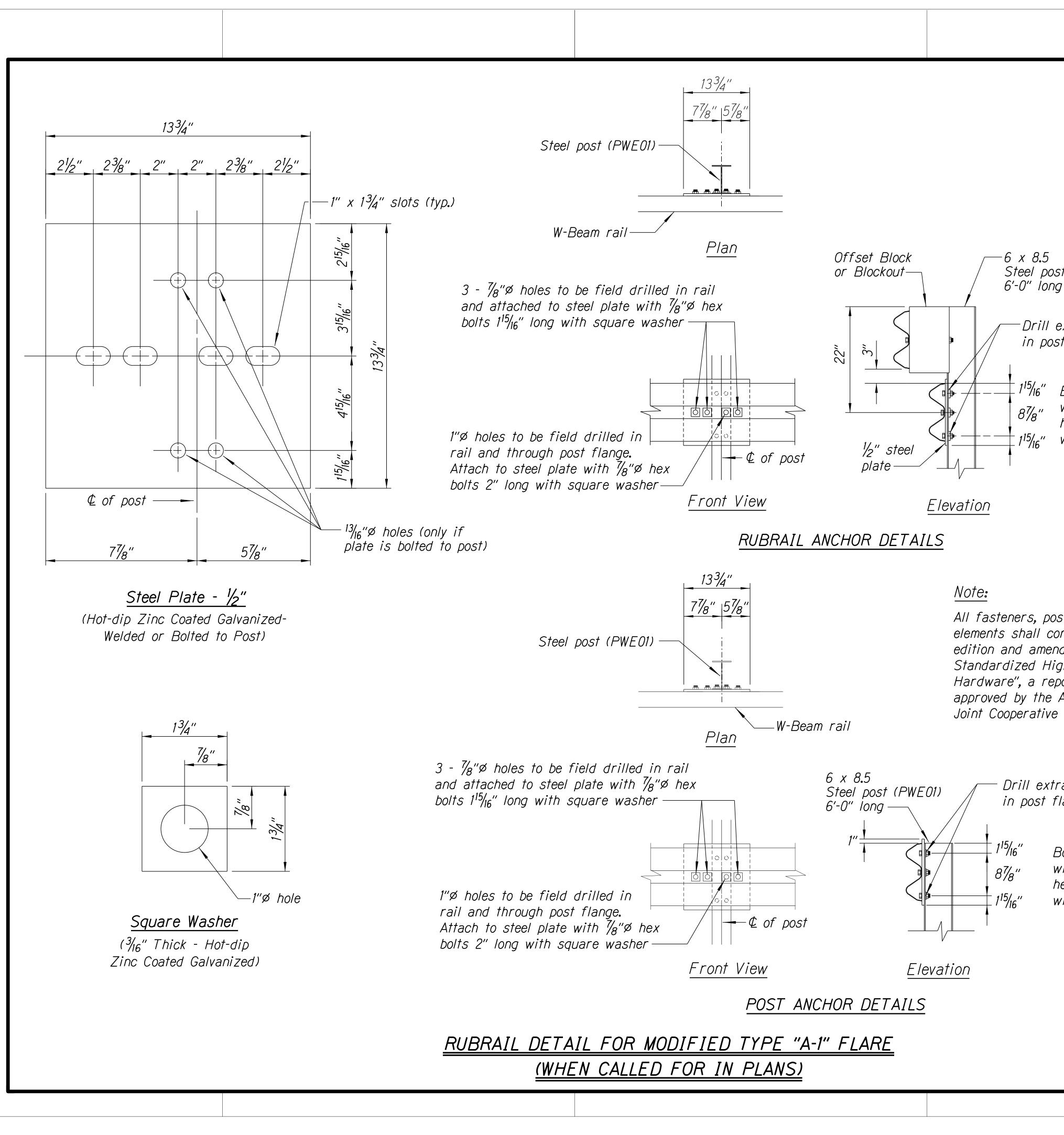


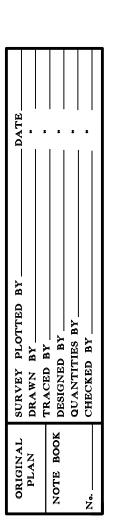
FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	ER–21(005)	2021	12	23

Note:

All fasteners, posts, blocks and rail elements shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware," a report prepared and approved by the AASHTO-AGCARTBA Joint Cooperative Committee and HDOT's Statewide Guideline for Permanent Highway Safety Hardware.

		REDUCED PLAN (HALF SIZE) 0 1 2 3 3 INCHES OF ORIGINAL PLAN
long	CE K MEL Licensed Professional Engineer ★ No.8336-C	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION MODIFIED TYPE "A-1" FLARE
<u>ILS</u>	This work was prepared by me or under my supervision. Expiration Date of License <u>4/22</u>	PAHOA-KALAPANA ROAD 2018 KILAUEA ERUPTION PERMANENT REPAIRS Federal Aid Project No. ER-21(005) Scale: Not To Scale Date: August 2021
		SHEET No. 5 OF 6 SHEETS





		FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		HAWAII	HAW.	ER–21(005)	2021	13	23
	W-Beam r	ail—		6 x 5tee	8.5 el post	(PWE	01)
	Offset or Bloc	Block kout —					
t (PWE01) 1			 <u>Plai</u>	<u>n</u>			
extra ¹³ / ₁₆ "Ø hole st flange each side		set Block Blockout —			< 8.5 el posi	+ (PW)	-01)
Bolt plate to post with 4 - 5%"ø hex bolts 2" long with hex nuts	3'-8" (Max.)	<u> </u>			σι μυσι		_ 017
sts, blocks and rail onform to the latest odments of "A Guide ghway Barrier Rail oort prepared and AASHTO-AGCARTBA Committee.			POS	vation T GUARD RUBRAIL			
ra ¹³ / ₁₆ "ø hole lange each side							
Bolt plate to post with 4 - 5%"ø nex bolts 2" long with hex nuts					OUCED HALF SIZ	2 2	AN
	CE K ME Licensed Professional Engineer No.8336-C YAWAII, U.S.A This work was prepared by the or under my supervision.	^{me} <u>2018 K</u> <u>Fee</u>	<u>MODI</u> ARE PAHC ILAUEA	-	NSPORTA ISION PE L DE NO. E Date: A	'A-1'' TAIL <u>OAD</u> NT REF R-21(00 August	PAIRS 95) 2021
			SHEET	No. 6 OF	6 13	SHEET	S