DESIGN NOTES

- 1. Design is based on the assumption that backfill within the reinforced soil mass, methods of construction and quality of materials conform to the requirements of Hilfiker Retaining Walls.
- 2. Soil Characteristics per Project Specifications:

Wall Backfill:

Unit Weight: 130 pcf Internal Friction Angle: 34° Cohesion = 0 psfRetained Backfill: Unit Weight: 115 pcf Internal Friction Angle: 32° Cohesion = 0 psf Foundation Soils: Unit Weight: 115 pcf Internal Friction Angle: 32°

Worst Case Applied Bearing Pressure by MSE Wall- @ 28' Height - 4770 psf.

If actual characteristics, grades or dimensions of soil materials differ from those listed above or shown on the plans, Hilfiker Retaining walls shall be notified to evaluate the need to redesign.

SUPPLIED G	UANTITIES
WALL NO.	FACE AREA
WALL 1205	3,040 SQ. FT.
RSS WALL 1107	1,128 SQ. FT.
RSS WALL 3358	2,136 SQ. FT.
TOTALS	6,304 SQ. FT.

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DATE

З.	If during construction, the wall location, structure location or
	loads are different than that proposed in this plan set and
	calculation package, HRW shall be notified to evaluate the need
	for a redesign.

- 4. The design requires a non-saturated backfill. Surface and sub-surface drainage control may be required to prevent saturation of the backfill or relieve hydrostatic pressures.
- 5. Design Procedure: Mechanically Stabilized Earth walls and Reinforced Soil Slopes, FHWA report No. FHWA-NHI-00-043.
- 6. All information hereon is derived from the reference drawings, and is subject to geometric and geotechnical confirmation. The applicable Hilfiker construction guide and specifications are an integral part of this submittal.
- 7. Hilfiker Retaining Walls shall be responsible only for the internal stability of the retaining wall, and not for global stability or foundation bearing capacity. The Owner shall be responsible for global stability and foundation competence. The Owner is responsible for all job site drainage, safety and fall protection provisions for workers in compliance with OSHA and any other applicable requirements.







SCALE: 1" = 20'

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REV.NO.	DATE	BY	DESCRIPTION			P.O. Box 132
	11-29-22	KLC	Initial .pdf Release	HILFIKER RETAINING WALLS	GESAKEIII	Fortuna, CA 95540
					Finginganad	Phone (707) 725-CESR
<u> </u>					Igineereu	(707) 498-7193
				рн 707.443.5093 FAX 707.443.2891	Solutions	CesarettiEngineered.com
 				WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com	CIVIL ENGINEERING SPECIALISTS	KCesaretti@att.net
					GIVIL ENGINEERING STEGIALISTS	9

MSE WELDED WIRE WALL 1205 MP 7.4 ELEVATION VIEW

USFS 2019 RRS ERFO Road Repairs Design



EXPIRATION DATE: 12/31/23



- 82111PE
- TYPE 5 8x21 W9.5x4.0 MATS
- TYPE 4 8x21 W7.0x4.0 MATS
- TYPE 3 8x12 W7.0x3.5 MATS
- TYPE 1 8X12 W4.5x3.5 MATS TYPE 2 - 8X21 W4.5x4.0 MATS

FINISH: HOT DIP GALVANIZED SERVICE LIFE: 75 YEARS

WALL WIRE TYPE LEGEND





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	11-29-22	KLC	Initial .pdf Release	HILFIKER RETAINING WALLS	ESAREIII	Fortuna, CA 95540
<u> </u>				1902 Hilfiker Lane	Engineered	Phone (707) 725-CESR
<u> </u>				TOLL-FREE 800.762.8962		(707) 498-7193
<u> </u>				PH 707.443.5093 FAX 707.443.2891	Olutions	CesarettiEngineered.com
					CIVIL ENGINEERING SPECIALISTS	KCesaretti@att.net









SCALE: 1" = 20'

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE HILFIKER COMPANY HAS DESIGNED, AND IS RESPONSIBLE FOR THE INTERNAL STABILITY, OF THE STRUCTURE ONLY. EXTERNAL STABILITY, INCLUDING FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER.

REV NO	DATE	BV	DESCRIPTION			
KEV.NO.	11-29-22	KLC	Initial .pdf Release	HILFIKER RETAINING WALLS	GESARETTI	P.O. Box 132 Fortuna, CA 95540
					Fngineered	Phone (707) 725-CESR
				TOLL-FREE 800.762.8962		(707) 498-7193 CoserettiEngineered.com
				WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com	ONUTIONS	KCesaretti@att net
					CIVIL ENGINEERING SPECIALISTS	Recsarettiwatt.net



WALL WIRE TYPE LEGEND



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REV.NO.	DATE 11-29-22	BY KLC	DESCRIPTION Initial .pdf Release	HILFIKER RETAINING WALLS	G ESARETTI	P.O. Box 132 Fortuna, CA 95540
				1902 Hilfiker Lane Eureka, CA 95503-5711 TOLL-FREE 800.762.8962 PH 707.443.5093 FAX 707.443.2891 WEB SITE WWW.hilfiker.com E-MAIL info@hilfiker.com	Engineered Solutions CIVIL ENGINEERING SPECIALISTS	Phone (707) 725-CESR (707) 498-7193 CesarettiEngineered.com KCesaretti@att.net



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SHT 6 OF 9

2.6 ELEVATION VIEW







