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. Assumed Soil Characteristics:
- Wall Backfill: Unit Weight: 130 pcf Internal Friction Angle: 34°
 - Cohesion = 0 psf Retained Backfill: Unit Weight: 130 pcf Internal Friction Angle: 30°
- Cohesion = 0 psf Foundation Soils: Unit Weight: 130 pcf
- Internal Friction Angle: 30° Cohesion = 0 psf

Traffic Surcharge Loading (LL) = 250 psf

Worst Case Applied Bearing Pressure by MSE Wall-@ Lower Wall 12' Height - 5186 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.

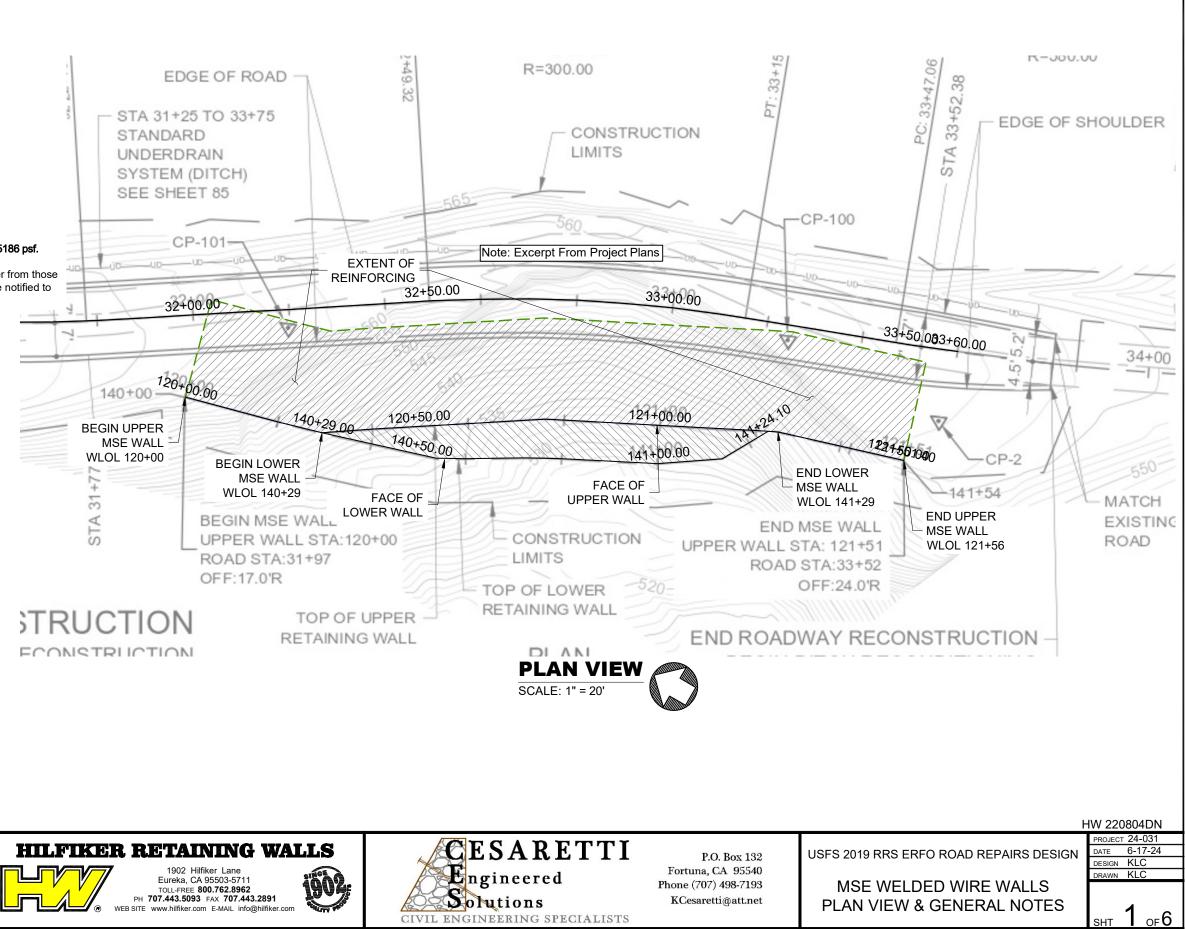
- 3. If during construction, the wall location, structure location or loads are different than that proposed in this plan set and calculation package, HRW shall be notified to evaluate the need for a redesign.
- The design requires a non-saturated backfill. Surface and 4. sub-surface drainage control 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 length of mats is per Project Plans and so Sliding is the responsibility of the Owner. The Owner also is responsible for all job site drainage, safety and fall protection provisions for workers in compliance with OSHA and any other applicable requirements.

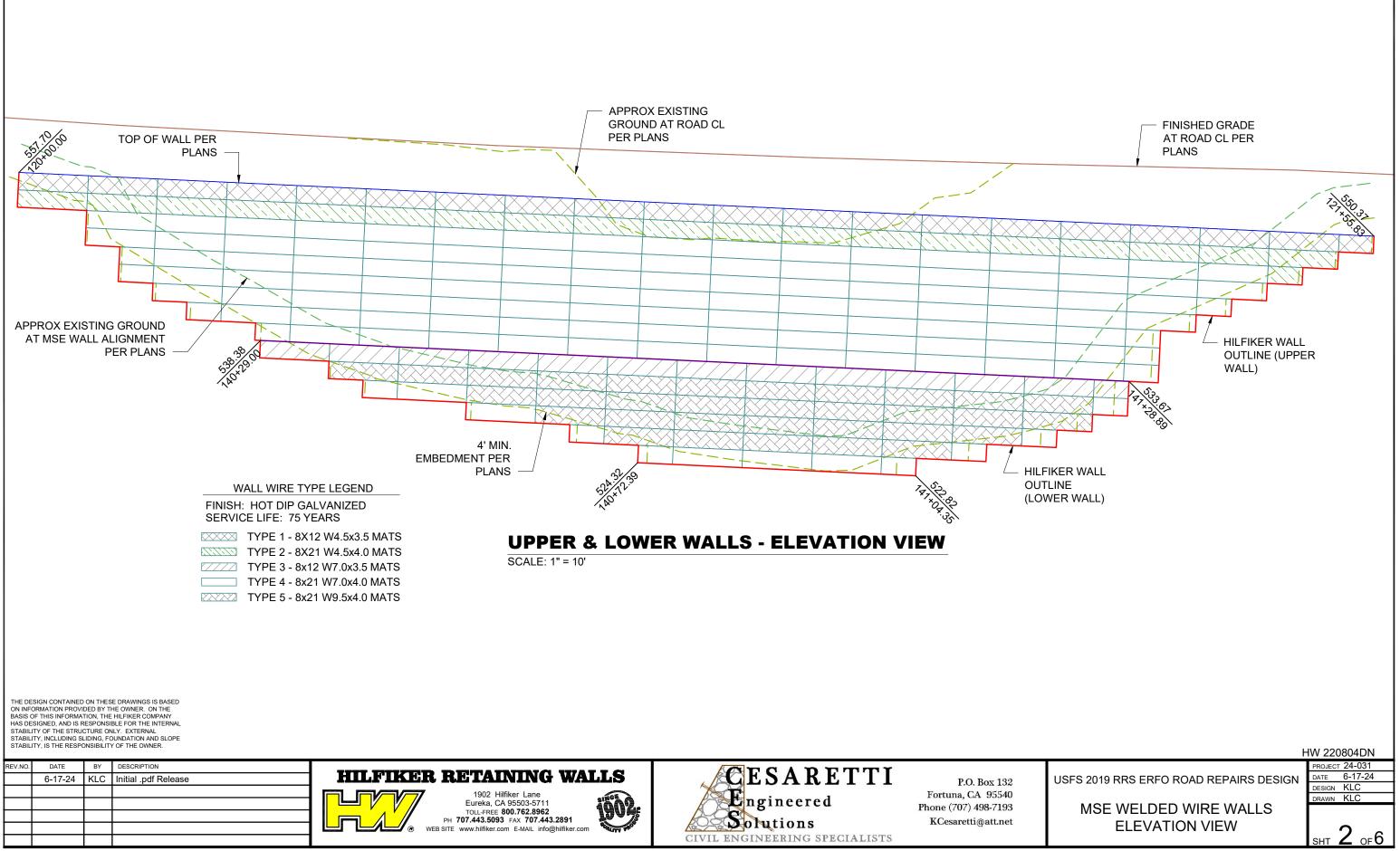
SUPPLIED QUANTITIES:

UPPER WIRE WALL :	2336 FT ²	
LOWER WIRE WALL :	848 FT ²	

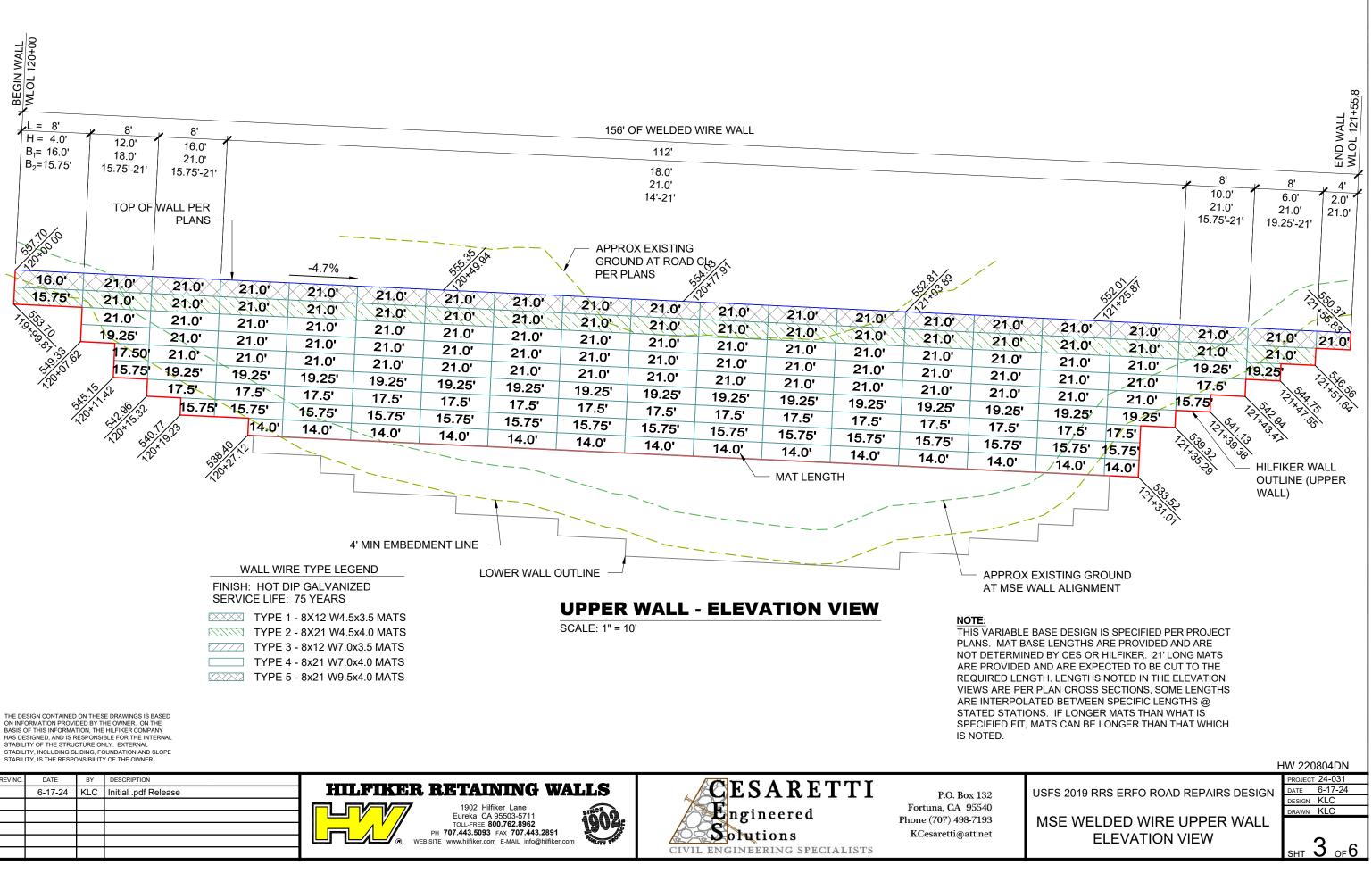
THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE HILFIKER COMPANY HAS DESIGNED, AND IS RESPONSIBLE FOR THE INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY, INCLUDING SLIDING, FOUNDATION AND SLOPE STABILITY, IS THE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

REV.NO.	DATE	BY	DESCRIPTION	
	6-17-24	KLC	Initial .pdf Release	
	6-25-24	KLC	Revised per 6/25/24 Plan Check Comments	

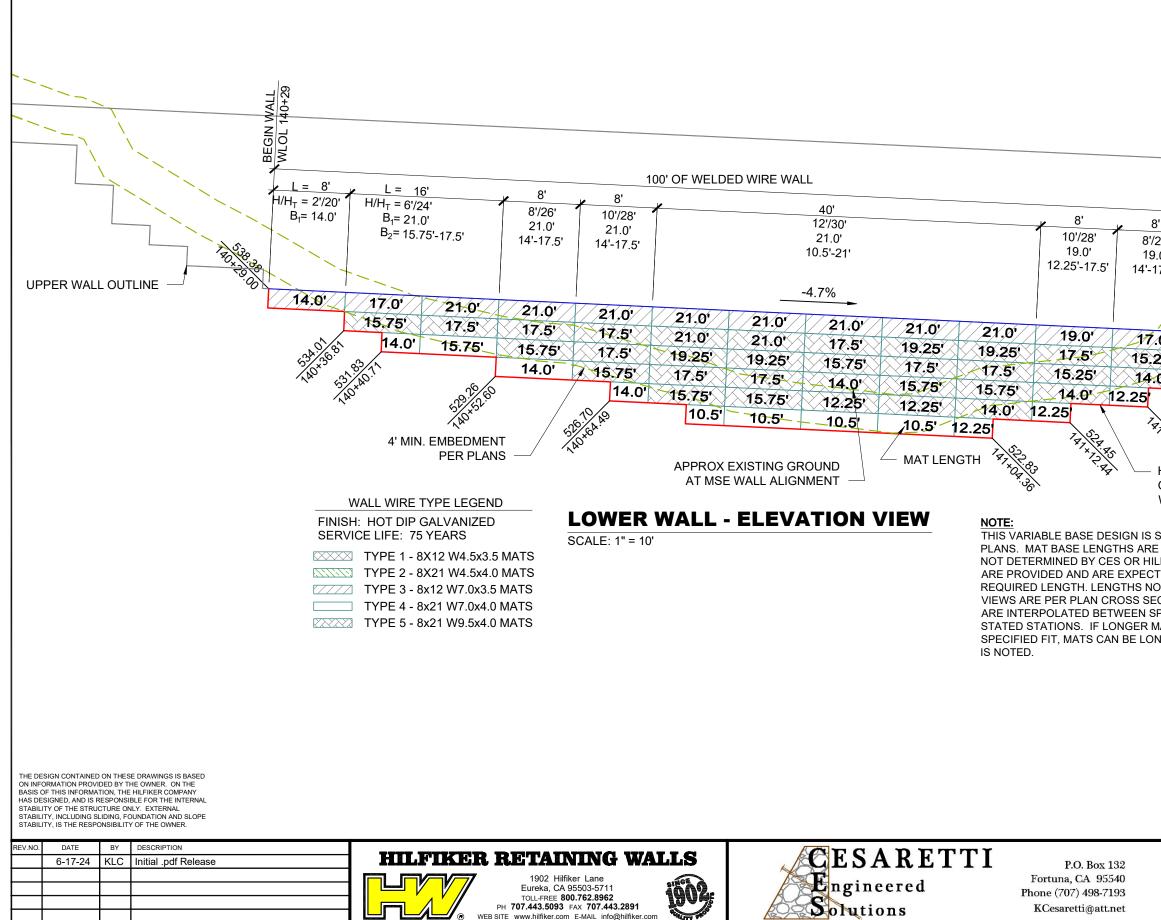




REV.NO.	BY KLC	DESCRIPTION Initial .pdf Release	HILFIKER RETAINING WALLS	CESARETTI	P.O. Box 132
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				CIVIL ENGINEERING SPECIALISTS	



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CIVIL ENGINEERING SPECIALISTS

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USFS 2019 RRS ERFO ROAD REPAIRS DESIGN	PROJECT 24-031 DATE 6-17-24 DESIGN KLC
MSE WELDED WIRE LOWER WALL ELEVATION VIEW	DRAWN KLC

