

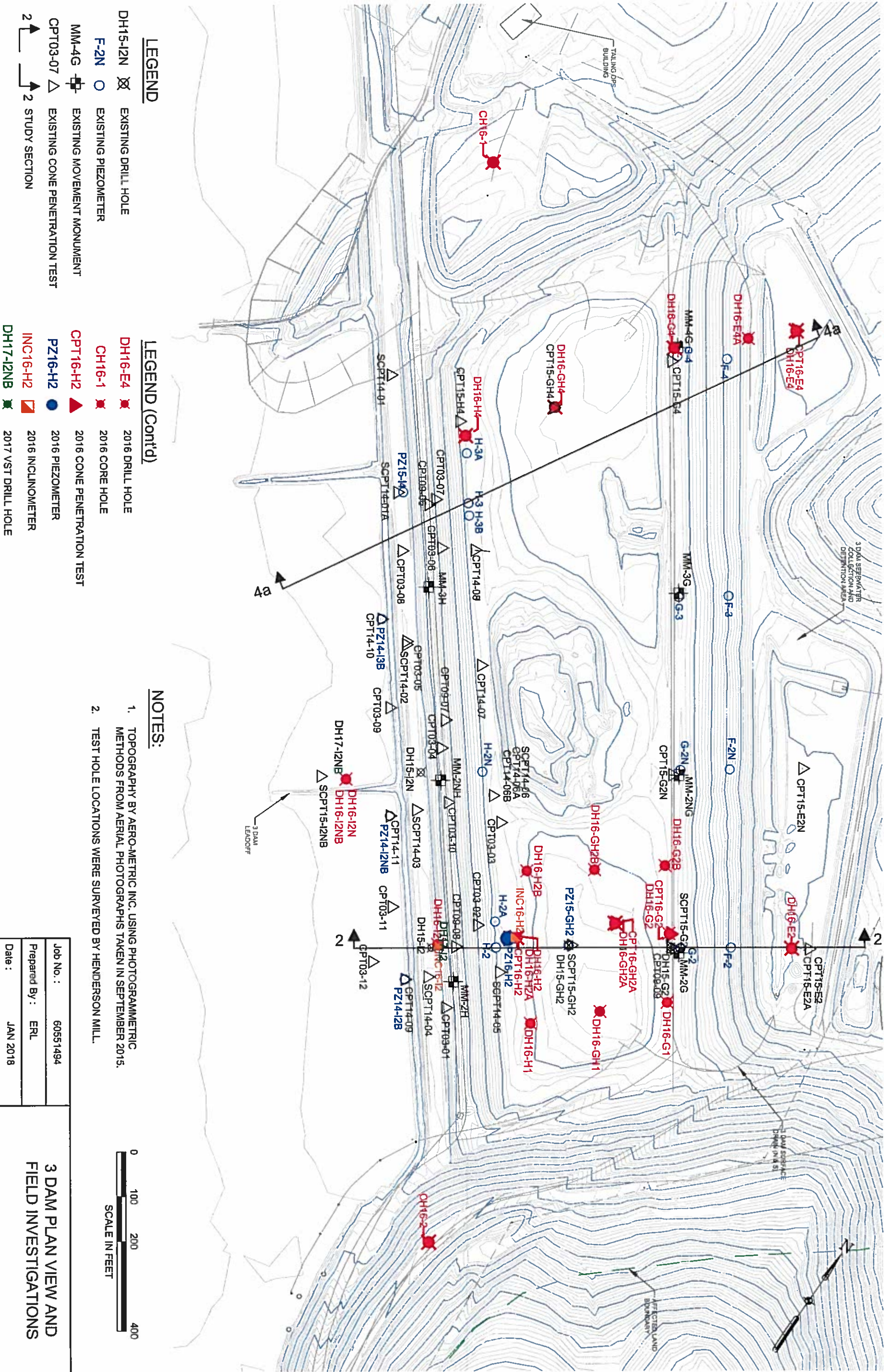
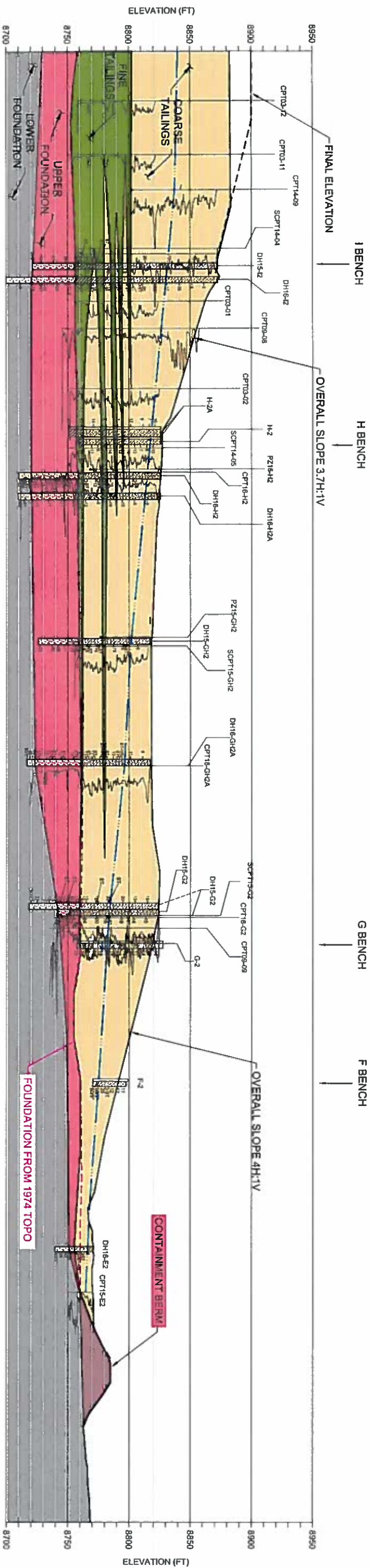


FIG. 1



NOTES:

- 1. FOR CONE SOUNDINGS, TP RESISTANCE IS PLOTTED TO THE RIGHT.

SCALE IS: 0 50 100

LEGEND:

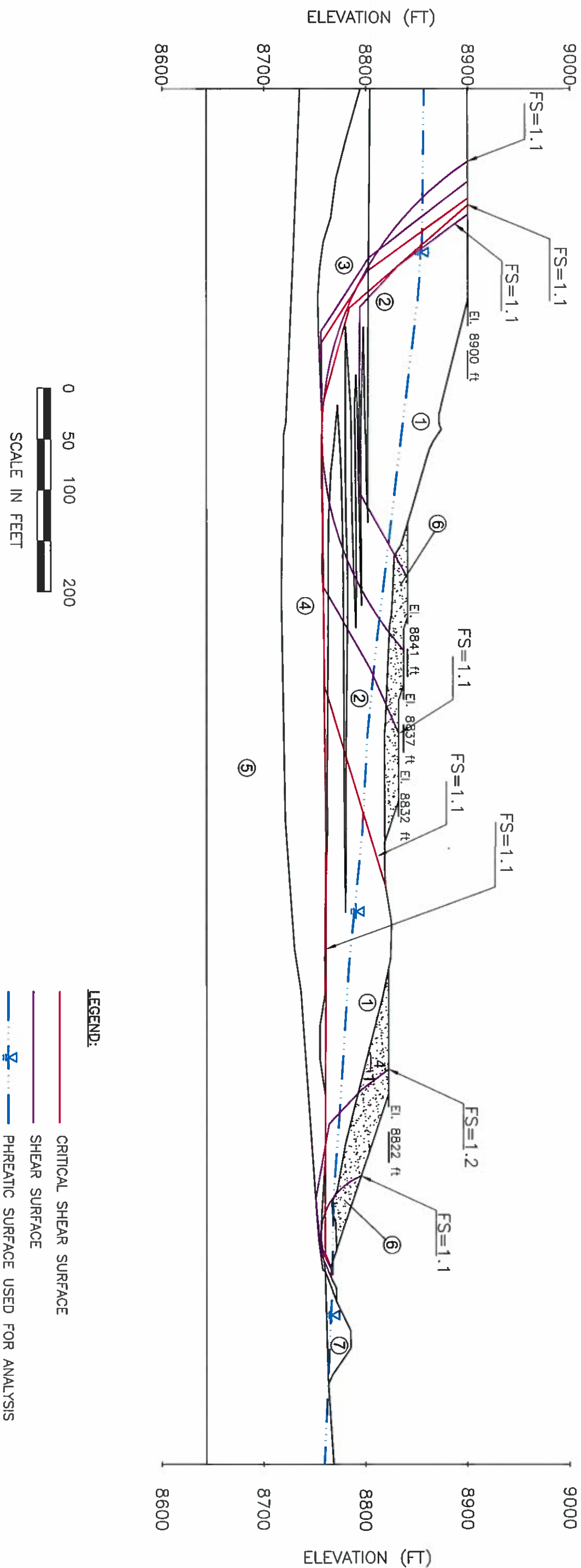
--- APPROXIMATE FUTURE DAM RAISE SURFACE

0 25 50 100
SCALE IN FEET

Job No:	60551494	3 DAM STUDY SECTION 2
Prepared By:	PAS	
Date:	JAN 2018	

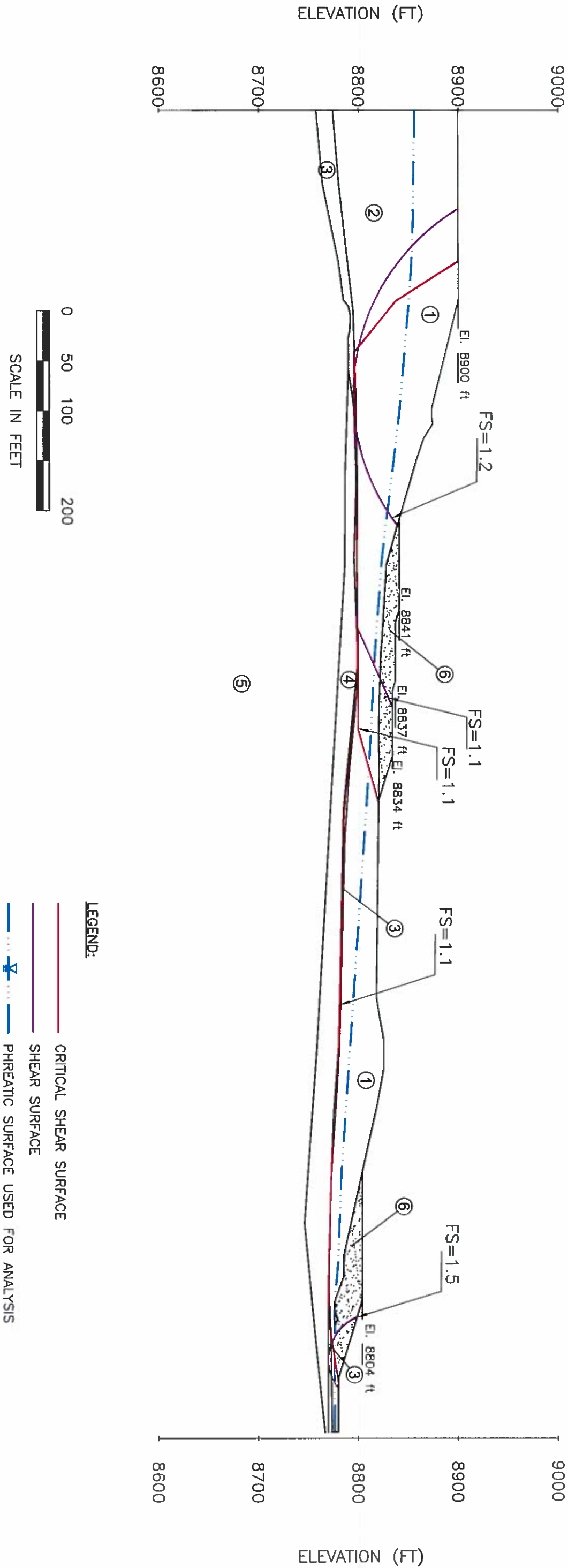
FIG. 2

			DRAINED STRENGTH		UNDRAINED STRENGTH	POST EARTHQUAKE Shear Strength
NO.	MATERIAL DESCRIPTION	UNIT WEIGHT (pcf)	COHESION (psf)	FRICTION ANGLE (degrees)	S_{up}/P'	S_{up}/P'
1	UNSATURATED COARSE TAILINGS	117	0	38	—	—
2	SATURATED COARSE TAILINGS	119	0	38	0.50 CIU', 0.30 DSS	0.24
3	SATURATED FINE TAILINGS	119	0	37	0.35 CIU', 0.27 DSS	0.10
4	UPPER FOUNDATION	135	0	28	0.28	0.27
5	LOWER FOUNDATION	135	500	35	—	—
6	BUTTRESS MATERIAL (TAILINGS)	117	0	38	—	—
7	CONTAINMENT BERM	135	500	35	—	—



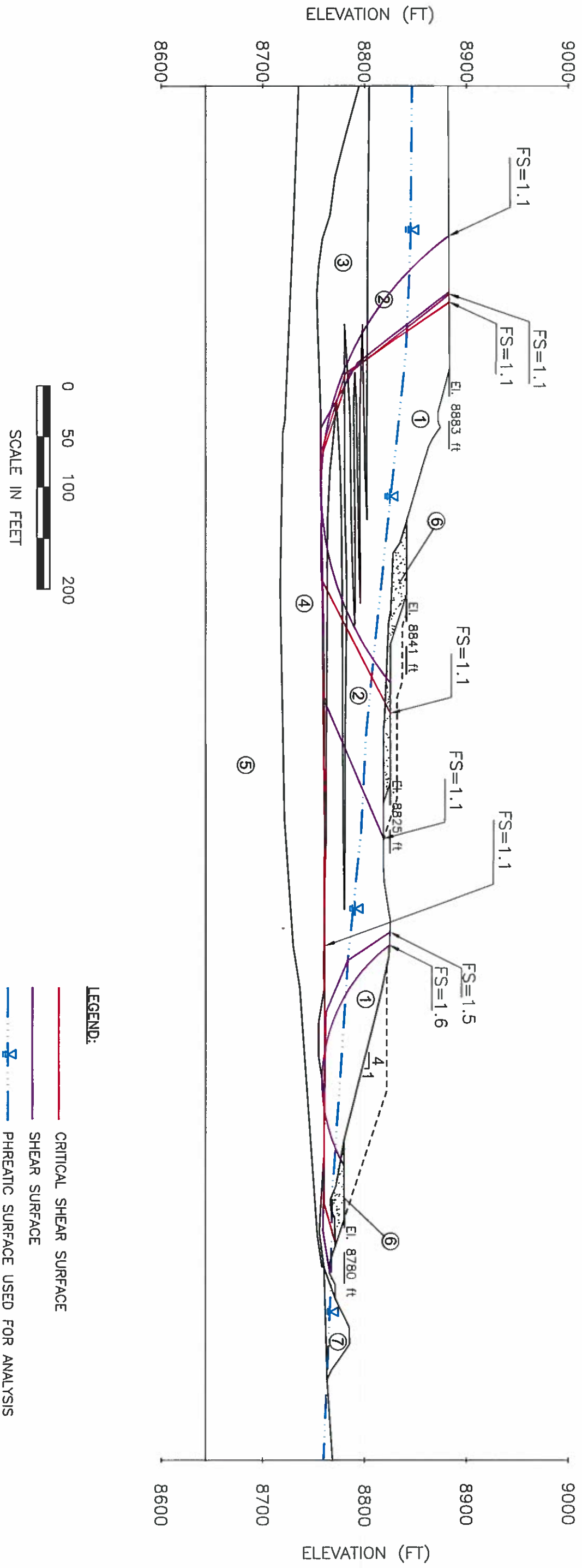
Job No.:	60551494	SECTION 2- STAGE 4 BUTTRESS MODE POST-EARTHQUAKE STABILITY ANALYSIS RESULTS CREST EL. 8900 ft
Prepared By:	PAS	
Date:	JAN 2018	

			DRAINED STRENGTH		UNDRAINED STRENGTH	POST EARTHQUAKE Shear Strength
NO.	MATERIAL DESCRIPTION	UNIT WEIGHT (pcf)	COHESION (psf)	FRICTION ANGLE (degrees)	S_{uPE}/P'	S_{uPE}/P'
1	UNSATURATED COARSE TAILINGS	117	0	38	—	—
2	SATURATED COARSE TAILINGS	119	0	38	0.50 CIU', 0.30 DSS	0.24
3	SATURATED FINE TAILINGS	119	0	37	0.35 CIU', 0.27 DSS	0.10
4	UPPER FOUNDATION	135	0	28	0.28	0.27
5	LOWER FOUNDATION	135	500	35	—	—
6	BUTRESS MATERIAL (TAILINGS)	117	0	38	—	—



Job No.:	60551494	SECTION 4a – STAGE 4 BUTRESS
Prepared By:	PAS	MDE POST-EARTHQUAKE
Date:	JAN 2018	STABILITY ANALYSIS RESULTS
		CREST EL. 8900 FT

			DRAINED STRENGTH		UNDRAINED STRENGTH	POST EARTHQUAKE Shear Strength
NO.	MATERIAL DESCRIPTION	UNIT WEIGHT (pcf)	COHESION (psf)	FRICTION ANGLE (degrees)	S_{uE}/P'	S_{uE}/P'
1	UNSATURATED COARSE TAILINGS	117	0	38	—	—
2	SATURATED COARSE TAILINGS	119	0	38	0.50 c_{IU}' , 0.30 DSS	0.24
3	SATURATED FINE TAILINGS	119	0	37	0.35 c_{IU}' , 0.27 DSS	0.10
4	UPPER FOUNDATION	135	0	28	0.28	0.27
5	LOWER FOUNDATION	135	500	35	—	—
6	BUTRESS MATERIAL (TAILINGS)	117	0	38	—	—
7	CONTAINMENT BERM	135	500	35	—	—



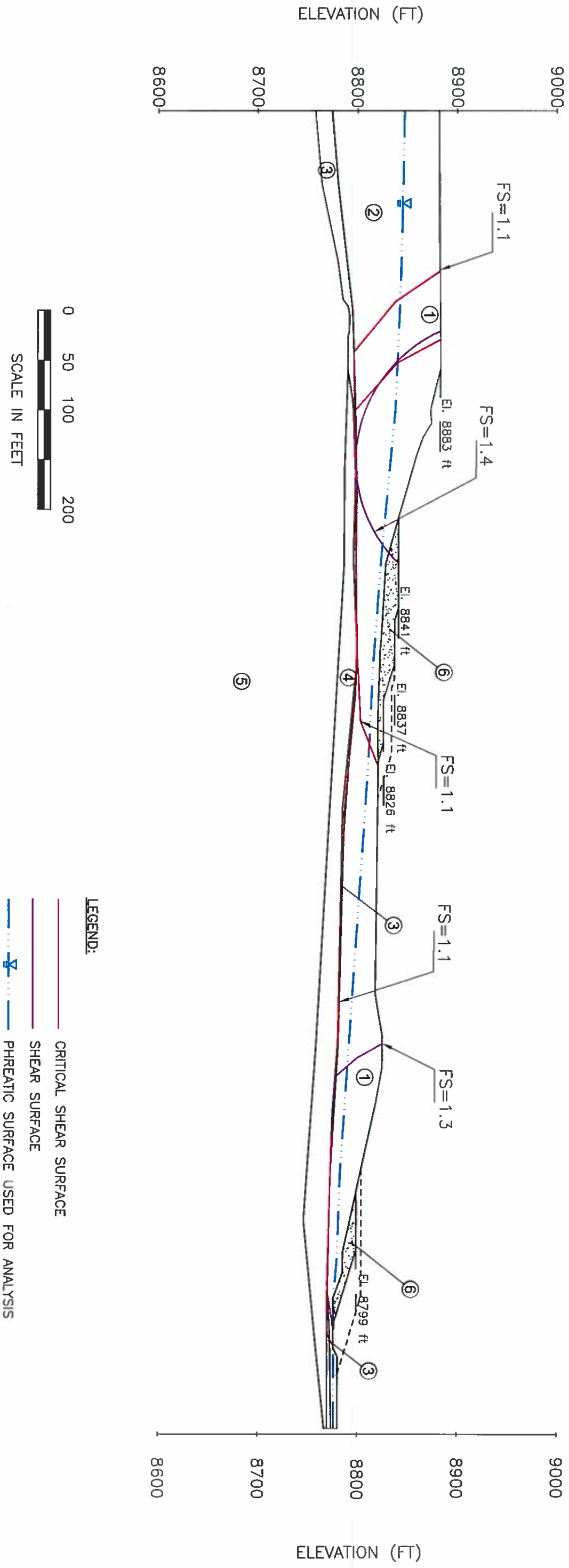
LEGEND:

- CRITICAL SHEAR SURFACE
- SHEAR SURFACE
- PHREATIC SURFACE USED FOR ANALYSIS

Job No. :	60551494	SECTION 2- STAGE 1 BUTRESS MDE POST-EARTHQUAKE STABILITY ANALYSIS RESULTS CREST EL. 8883 ft
Prepared By :	PAS	
Date :	JAN 2018	

FIG. 6

DRAINED STRENGTH			UNDRAINED STRENGTH		POST EARTHQUAKE Shear Strength	
NO.	MATERIAL DESCRIPTION	UNIT WEIGHT (pcf)	COHESION (psf)	FRICTION ANGLE (degrees)	S_{uPE}/P'	S_{uPE}/P'
1	UNSATURATED COARSE TAILINGS	117	0	38	—	—
2	SATURATED COARSE TAILINGS	119	0	38	0.50 c_{IU}' , 0.30 DSS	0.24
3	SATURATED FINE TAILINGS	119	0	37	0.35 c_{IU}' , 0.27 DSS	0.10
4	UPPER FOUNDATION	135	0	28	0.28	0.27
5	LOWER FOUNDATION	135	500	35	—	—
6	BUTRESS MATERIAL (TAILINGS)	117	0	38	—	—



Job No. :	60551494	SECTION 4a - STAGE 1 BUTRESS
Prepared By :	PAS	MDE POST-EARTHQUAKE
Date :	JAN 2018	STABILITY ANALYSIS RESULTS
		CREST EL. 8883 FT

FIG. 7