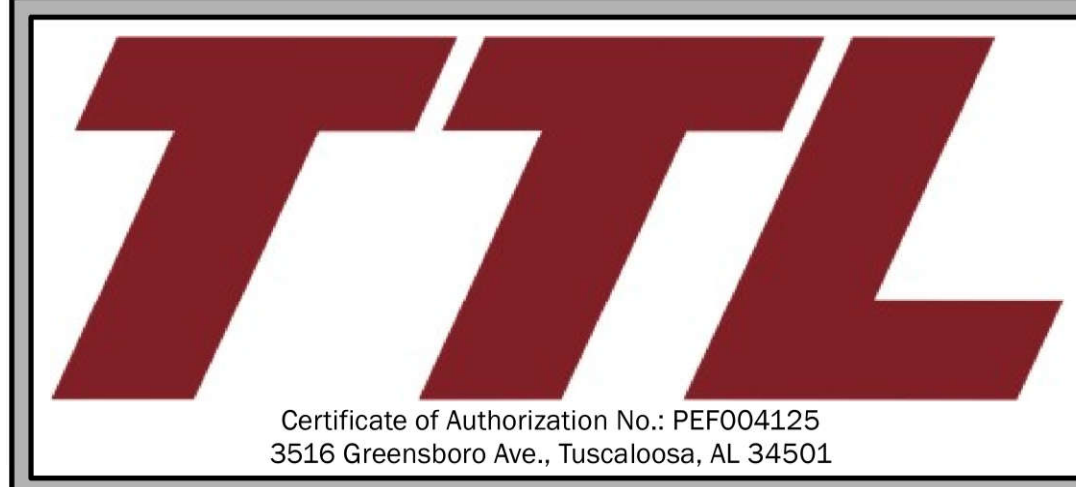
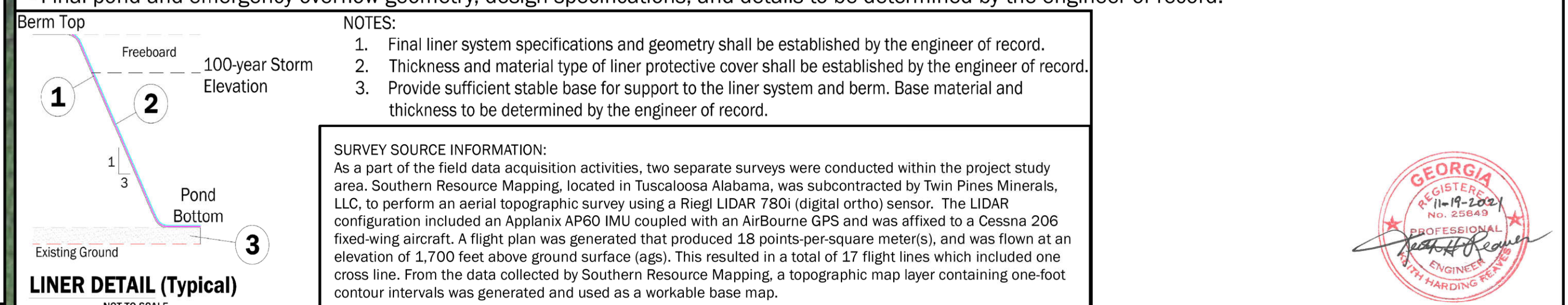


POND CALCULATIONS

	Sand Processing Area Water Management Pond			Mine Pit Water Management Pond			Primary Process Water Pond			Secondary Process Water Pond (x2)			Primary Overflow Pond		
	Elevation (ft AMSL)	Area (sqft)	Depth (ft)	Elevation (ft AMSL)	Area (sqft)	Depth (ft)	Elevation (ft AMSL)	Area (sqft)	Depth (ft)	Elevation (ft AMSL)	Area (sqft)	Depth (ft)	Elevation (ft AMSL)	Area (sqft)	Depth (ft)
Pond Bottom	162	413,291	0	168	643,916	0	171	22,157	0	171	10,906	0	171	10,906	0
Operations															
100-year Storm	171.35	488,786	9.35	178.15	759,442	10.15	177.05	31,348	6.05	176.8	19,090	5.8	176.8	19,090	5.8
Emergency Overflow	173	502,622	11	180	781,127	12	178	35,421	7	178	21,021	7	178	21,021	7
Berm Elevation	174		12	181		13	178		1.5	178		0.8	178		0.8

- NOTES:**
- Pond dimensions and volumes are based on the 24-hour 100-year storm event.
 - Proposed berm and ground slopes shown are 3:1.
 - All exposed ground areas will be covered with temporary vegetation for erosion and sediment control. See Sheet 10 for planting schedule.
 - Pump capacity and pipeline size to be determined by the engineer of record.
 - The emergency overflow is included to maintain pond safety/integrity and is not intended for discharge.
 - Final pond and emergency overflow geometry, design specifications, and details to be determined by the engineer of record.



SHEET 6: POND DESIGN DETAILS & NOTES

TWIN PINES MINERALS, LLC SAUNDERS DEMONSTRATION MINE (ID NO. 2073)
ST. GEORGE, CHARLTON COUNTY, GEORGIA
BASEMAP: Maxar, Vivid Imagery, 11/20/2019 (0.5 m Resolution).

DRAWN BY: DEK
CHECKED BY: KHR
DRAWING DATE: 11/19/2021
REVISION DATE: N/A
TTL JOB NO.: 000180200804.00
APPROX. SCALE: See Sheet

