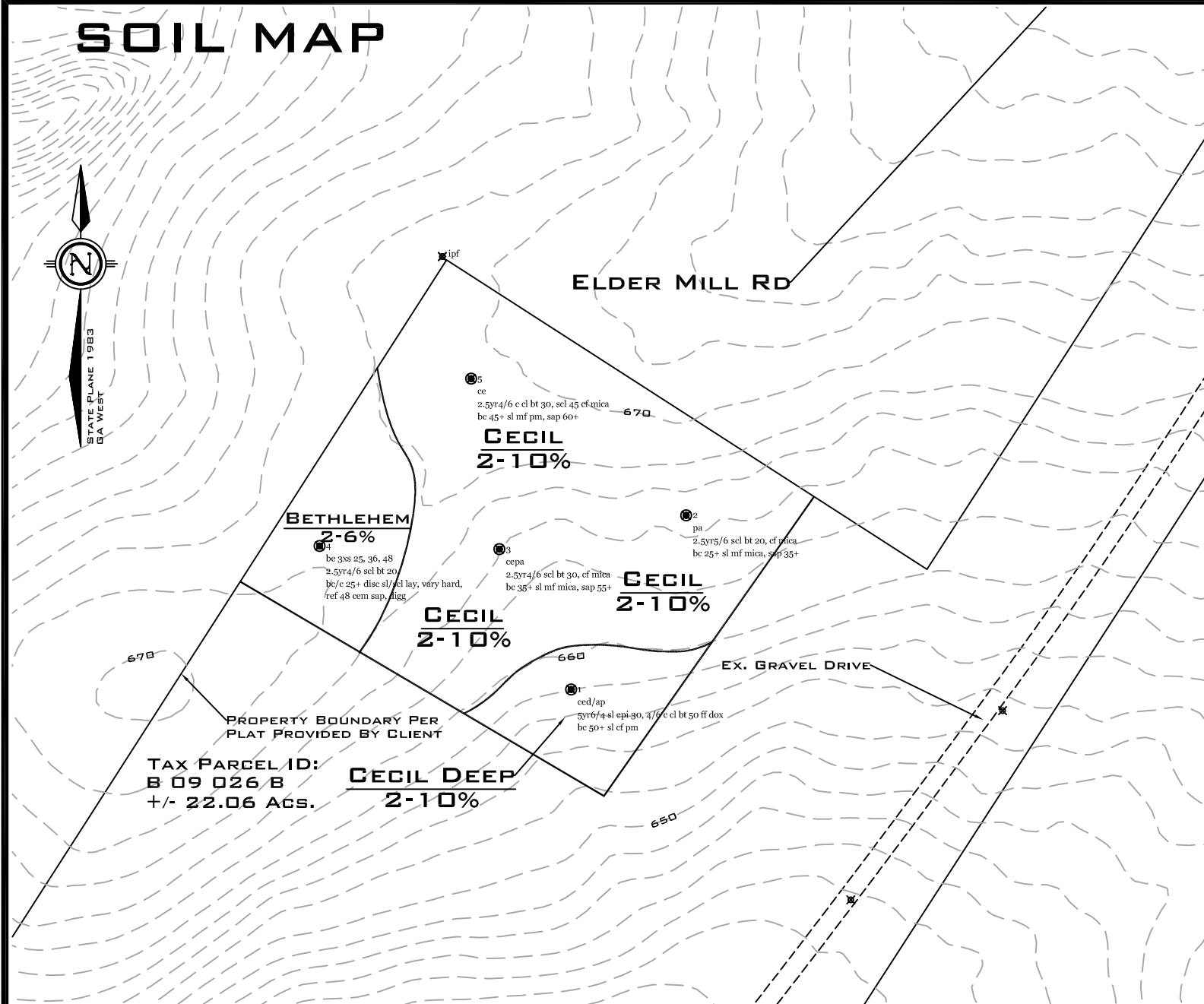
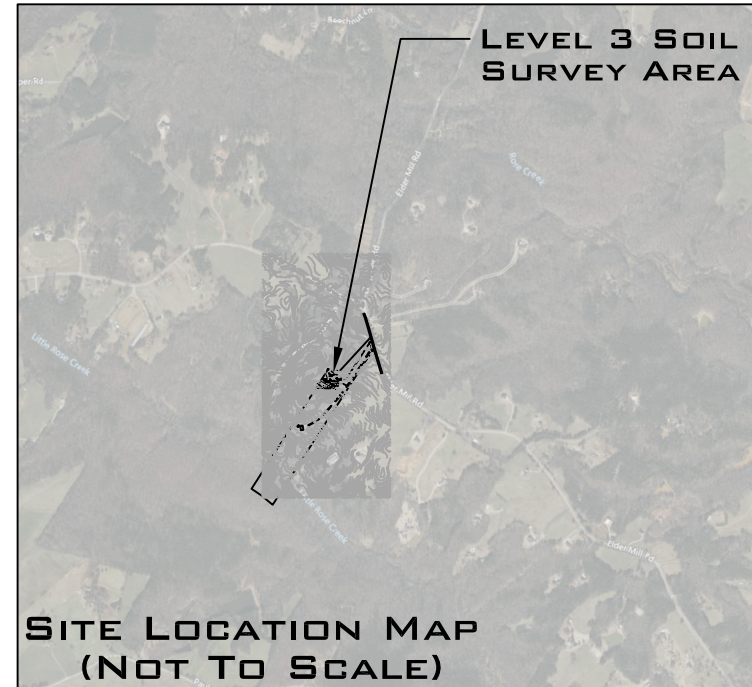


SOIL MAP



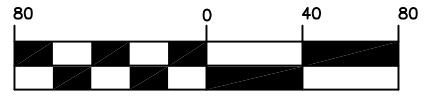
TAX PARCEL ID:
B 09 026 B
±/- 22.06 ACS.



**SITE LOCATION MAP
(NOT TO SCALE)**

AREA SURVEYED:
±/- 48,100 SQFT
OR 1.10 ACS

GRAPHIC SCALE



(IN FEET)
1 inch = 80 ft.

SOIL MAP KEY	
● #2	: SOIL BORING NUMBER
Pacole	: NRCS SOIL SERIES
SCL BC@30"	: SOIL BORING NOTES SWT = SEASONAL WATER TABLE DEPTH REF = REFUSAL DEPTH
—	: LEVEL 3 SOIL BOUNDARY
- - -	: 2019 - 2020 USGS LIDAR: CENTRAL GEORGIA 2' CONTOUR
⊙	: EXISTING WELL
~~~~~	: EXISTING TREELINE
- - - - -	: EXISTING FENCELINE

# SOIL TABLE & NOTES

NRCS SOIL SERIES	DEPTH TO ROCK INCHES	DEPTH TO SEASONAL HIGH WATER TABLE INCHES	RECOMMENDED TRENCH DEPTH INCHES	ESTIMATED PERCOLATION RATE MIN/IN	DPH CODE
BETHLEHEM	48-60	>60	18-24	60	N
CECIL	>72	>72	24-48	60	A
CECIL DEEP	>72	>72	24-36	70	J

* SEASONAL HIGH WATER TABLE INDICATED BY CHROMA 2 OR LESS REDOX FEATURES.  
- HARD ROCK DEFINED AS MATERIAL IMPENETRABLE BY HAND AUGER, EXCLUDING SOFT SAPROLITE.

**DPH SUITABILITY CODES:**  
**A:** SOILS SHOULD HAVE THE ABILITY TO FUNCTION AS AN ABSORPTION FIELD WITH THE PROPER DESIGN, INSTALLATION, AND MAINTENANCE.  
**J:** SOILS ARE SUBJECT TO SLOW PERCOLATION DUE TO HIGH CLAY CONTENTS AND LANDSCAPE POSITIONS. THIS SOIL IS WELL DRAINED WITH MODERATE PERMEABILITY DUE TO GOOD STRUCTURE IN THE UPPER BT HORIZON AND HAS SLOWER PERMEABILITY BELOW 4-5' AS STRUCTURE WEAKENS. THIS STRUCTURE IS EASILY DAMAGED DURING INSTALLATION, ESPECIALLY UNDER WET TO MOIST CONDITIONS. EXTRA CARE SHOULD BE TAKEN TO AVOID SMEARING OF TRENCH WALLS UPON INSTALLATION. A SHALLOW INSTALLATION SHOULD PROVIDE ADEQUATE PERCOLATION FOR A CONVENTIONAL DRAIN FIELD. SOME UNITS MAY BE FOUND IN LOWER LANDSCAPE POSITIONS THAT ARE SUBJECT TO WATER COLLECTION. THESE SITES SHOULD BE CONSIDERED FOR SITE ALTERATIONS TO DIVERT STORM WATER FLOW FROM DRAIN FIELD AREAS.  
**N:** SOIL HAS VARIABLE DEPTHS/HARDNESS OF PARENT MATERIAL THAT IS NON-LIMITING IN MOST CASES FOR SEPTIC SYSTEM APPLICATION BUT MAY CONTAIN INCLUSIONS OF SHALLOW ROCK LAYERS. ALL SOIL BORINGS DUG WITH HAND AUGER WERE EXCAVATED TO 48" OR GREATER BUT HAD PARTIALLY WEATHERED PARENT MATERIAL THROUGH OUT SOIL PROFILE. HARD MATERIAL OBSERVED WITH HAND AND HAD CLAY FILMS ALONG FACES OF ROCK FRAGMENTS INDICATING SUBSURFACE WATER MOVEMENT. A SHALLOW INSTALLATION IS RECOMMENDED TO ENSURE SUFFICIENT DEPTH BETWEEN TRENCH BOTTOM AND ANY APPARENT LIMITING LAYER. CLASS 1 EFFLUENT MAY BE UTILIZED TO ALLOW FOR DEEPER INSTALLATION DEPTHS IF 2' SEPARATION FROM LIMITING LAYER CAN NOT BE MAINTAINED.

- GENERAL NOTES & COMMENTS:**
- TAX MAP UTILIZED FOR PROPERTY BOUNDARY AND SHOULD BE CONSIDERED APPROXIMATE.
  - ALL BORINGS AND FEATURES ON SOIL MAP WERE LOCATED WITH DIFFERENTIALLY CORRECTED GPS DATA (±/- 1M ACCURACY) IN STATE PLANE COORDINATES (NAD1983 GA EAST OR WEST).
  - SOIL SERIES UNIT BOUNDARIES AND EXTENTS ARE INTERPOLATED BY ON-SITE SOIL CLASSIFIER.
  - LINE DELINEATING SOIL UNIT BOUNDARIES ON MAP SHOULD NOT BE CONSIDERED EXACT. INSTEAD, THEY SHOULD BE CONSIDERED AS TRANSITIONAL AREAS SEPARATING UNITS OF SOILS WITH SIMILAR PHYSICAL CHARACTERISTICS AND UTILIZATION. INCLUSIONS OF DISSIMILAR SOILS MAY EXIST WITHIN THESE UNITS & MAY BE TOO SMALL TO DELINEATE AT THIS LEVEL OF SURVEY.
  - ALTERATIONS, DURING CONSTRUCTION OR PRIOR TO DRAIN FIELD INSTALLATION, THAT RESULT IN SIGNIFICANT CHANGES TO THE NATURAL SOIL PROFILE, RENDER THESE SPECIFICATIONS INAPPLICABLE. THOSE SOILS SHOULD BE RE-EVALUATED TO DETERMINE SUITABILITY PRIOR TO DRAIN FIELD INSTALLATION IF ALTERED.
  - WHEN TRENCH LINES ARE DUG BY INSTALLER, EVERY PRECAUTION SHOULD BE TAKEN TO ENSURE THAT THERE IS MINIMAL DISTURBANCE TO THE SOIL ON THE TRENCH WALLS. SMEARING OF TRENCH WALLS OR IMPROPER INSTALLATION CAN LEAD TO SYSTEM FAILURE. TRENCHES SHOULD BE INSTALLED UNDER DRY CONDITIONS AND SIDE WALLS SHOULD BE PICKED/TOOTHED IF POSSIBLE.
  - AREAS LABELED NS WERE NOT SURVEYED AND SHOULD NOT BE CONSIDERED FOR DRAIN FIELD APPLICATION WITHOUT ADDITIONAL STUDIES.
  - AREAS THAT ARE IN CONCAVE LANDSCAPE POSITIONS OR AREAS THAT CHANNEL STORM WATER (SURFACE AND/OR SUBSURFACE) FLOW SHOULD NOT BE CONSIDERED FOR DRAIN FIELD APPLICATION WITHOUT INSTALLATION OF WATER DIVERSION MECHANISMS (I.E. CURTAIN DRAINS). ALL DOWNSPOUTS AND/OR ROOF LEADERS OR ANY HARDSCAPE FEATURE THAT CONCENTRATES STORMWATER SHALL BE DIRECTED AWAY FROM THE DRAIN FIELD AREA.
  - ANY TERRACE FEATURE SHOULD BE AVOIDED OR RE-GRADED TO ALLOW POSITIVE WATER FLOW SO THAT SURFACE WATER DOES NOT IMPACT SEPTIC SYSTEM.
  - SEPTIC SYSTEM SIZING SHALL BE BASED ON CURRENT APPROVED SYSTEM GUIDELINES SET FORTH BY THE STATE OF GEORGIA DPH AND SEPTIC PERMIT ISSUED BY LOCAL DEPARTMENT OF HEALTH.
  - THE INFORMATION DETAILED IN THIS REPORT CONTAINS THE PROFESSIONAL OPINION AND JUDGEMENT OF SEI AND MEETS OR EXCEEDS CURRENT DPH GUIDELINES FOR A LEVEL 3 SOIL SURVEY. NO GUARANTEE OF THE PERFORMANCE OF ANY ON-SITE SEPTIC SYSTEM IS WARRANTED BY SEI.
  - SEI ESTIMATES PERCOLATION RATES BASED ON CONVENTIONAL GRAVEL AND PIPE SYSTEM. ALTERNATIVE PRODUCTS ARE AVAILABLE WITH DPH APPROVED LENGTH REDUCTIONS UP TO 35%. THIS IS DUE TO IMPROVED INFILTRATIVE SURFACE ARCHITECTURE (ISA) THAT SUPPORTS LESS SURFACE MASKING AT THE EFFLUENT/SOIL INTERFACE. IN SOILS WITH LOW PERMEABILITY DUE TO HIGH CLAY CONTENT AND/OR WEAK STRUCTURE, THE SOIL PERMEABILITY CONTROLS THE INFILTRATION RATE INTO THE SOIL INTERFACE AND THE PRODUCT ISA HAS LESS EFFECT BASED ON CITED RESEARCH. SOILS WITH DPH CODES SUCH AS P & J HAVE LOWER PERMEABILITY. IN THESE SOIL TYPES, WE RECOMMEND THAT ALL PRODUCTS ARE SIZED BASE ON DPH TABLE 10.F WITH NO REDUCTION TO PROVIDE ADDITIONAL SAFETY FACTOR AND PROMOTE LONG TERM FUNCTION. HOWEVER, DPH APPROVED SIZE REDUCTIONS ARE ALLOWED AT THE OWNERS/PERMITTEES DISCRETION.



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LEVEL 3 SOILS SURVEY  
FOR ON-SITE WASTEWATER  
DISPOSAL PERMITTING  
FOR MARK COSTELLO  
ELDER MILL ROAD  
WATKINSVILLE, GA  
OCONEE COUNTY

SEI PROJECT NO:	PD706-24
DATE:	7-18-2024
DRAWING BY:	AJD
CHECKED BY:	PAA

REVISIONS		
NO.	DATE	DESCRIPTION

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SCALE: SEE SHEET

CLIENT INFORMATION SHEET# 501