

RETAINING WALL FOUNDATION INVESTIGATION

PROJECT IM-00MS (333), CATOOSA COUNTY

- 1. Project Location:** The proposed wall is located on the north side of the I-75 bridge over SR 146 in Catoosa County, east of Fort Oglethorpe.
- 2. Geologic Formation:** This project is sited in the Chickamauga Group Undifferentiated Formation of the Georgia Valley and Ridge Region.
- 3. Notable Subsurface Features:** Medium dense to dense cherty sandy clay overlying rock near elevation 220 to 230.
- 4. Soil Parameters:** This wall is proposed to be a tieback wall. The following soil design parameters are recommended for use:

Cohesion, C:	0 kN per square meter
Angle of Internal Friction, ϕ :	30°
Soil Unit Weight, δ :	19 kN per cubic meter
Coefficient of Sliding Friction, μ :	0.40

- 5. Recommendations** The tieback anchorage loads will vary and will be dependent on the method of installation. Drainage through the wall should be included as part of the design and construction. Soldier piles or caissons may encounter boulders or rock layers during installation, and the Contractor should be made aware of these potential obstructions. Soldier piles may require pile points or predrilling for installation.

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Reported by: Thomas Scruggs, P.E.