

## Gatlinburg Sky Lift: Suspension Cable Bridge

### Gatlinburg, TN



#### Services Provided:

- **Subsurface exploration**—  
soil test borings  
rock coring
- **Laboratory Testing**—  
sample evaluation  
moisture content  
Atterberg limits

ETS provided subsurface exploration services during the planning phase to determine the suitability of in-place soils and rock for the anchored foundations of a future 700 ft. suspension cable bridge at the Gatlinburg Sky Lift. The subsurface exploration was performed using drill rigs with hollow stem augers and split spoon sampling tubes. Rock coring was also performed after auger refusal was reached upon encountering competent rock at various depths. Samples were taken back to the lab to be examined and tested to determine moisture content, plasticity, etc.

The report for this project included a review of surface features, site conditions, geologic conditions, and subsurface soil conditions. ETS also provided recommendations for foundation preparation and site preparation.

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