

FHWA Tunnel Project, US Hwy 441 Great Smoky Mountains National Park, TN



Services Provided:

- **Field Density Testing**– soil, basestone, and asphalt
- **Construction Testing**– site preparation testing
foundation observation
field testing of concrete
masonry & structure steel
- **Laboratory Testing**– stone gradations standard
proctors concrete
compressive strength

Project consisted of the widening of multiple tunnels, drainage improvements, and asphalt placement along US Highway 441 in the Great Smoky Mountains National Park. Materials Engineer/coordinator for testing of basestone, soil, concrete, and asphalt. Performed density testing of basestone and asphalt in field. Lab testing included stone gradations and asphalt core densities.

ETS provided construction quality control materials testing services for the prime contractor during this project. Our team of materials engineers and technicians interacted with the C E & I inspectors and FHWA inspectors on a daily basis to ensure FHWA quality guidelines regarding materials were met.

Client - Charles Blalock & Sons



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