

Drone Footage (May 2025)

















Project Location









Project Location



Route 58/Lovers Leap | 2025 STGEC | Williamsburg, VA

Purpose

- Widen Route 58 from substandard two-lane to four-lane alignment
- Increase roadway speed to 55 mph (currently 40 to 50 mph)

Roadway Elements

- o Inside and outside 8-foot shoulder
- Two truck escape ramps
- Truck brake check pull-off
- Scenic East Overlook
- Scenic Lover's Leap Overlook with parking accommodations and cul-de-sac









Lover's Leap Overlook

Lover's Leap Scenic Overlook is the grandest of several long-range views along your journey through Patrick County. In the 1600's, white settlers started arriving to the area and began clearing land to farm. Conflict arose between the Native Americans and the settlers. Legend has it that the son of a settler saw the twinkle in the eyes of the Chief's daughter, Morning Flower, and was immediately love-struck. The couple began to meet secretly and their love continued to grow. The young man and maiden were threatened and shunned for wanting to be together. With the beautiful rock and wildflowers as their backdrop, they jumped into the wild blue yonder ensuring they would be together forever. As you gaze out at Lover's Leap, you can still see the evidence of their love in the beautiful view and hear them whisper in the cool evening breezes.



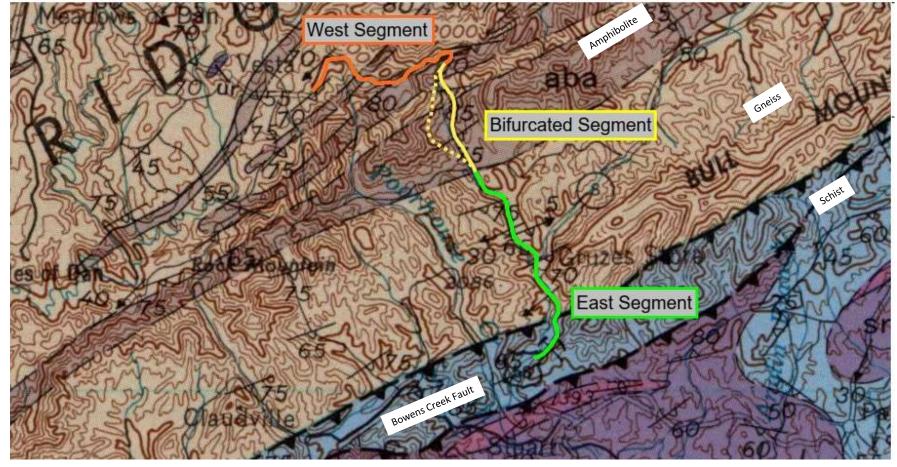
From: https://www.virginia.org/listing/lovers-leap-scenic-overlook/7471/







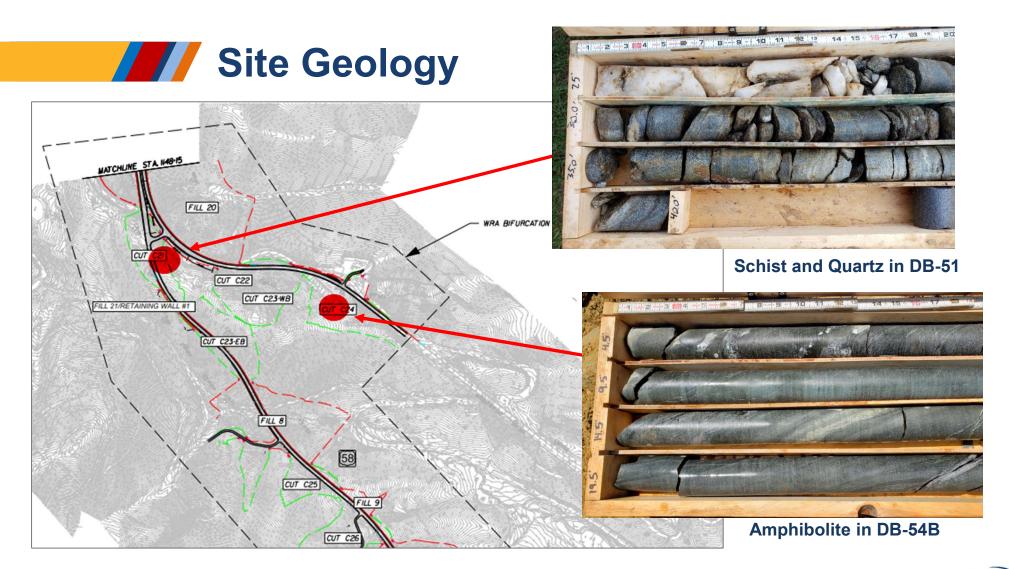
Site Geology











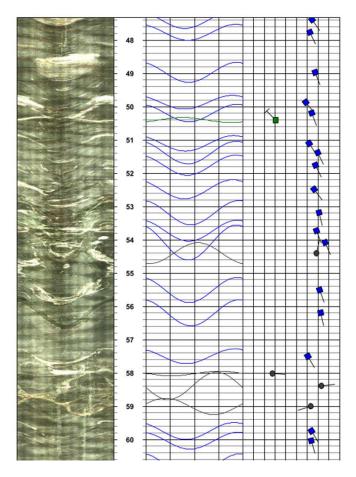






Geotechnical Design

- 40 Cut Areas
 - 11 million CY Cut
 - 6 million CY Rock
- 21 Fill Areas
 - 9 million CY Fill
- 471 borings for design
- **Geophysics**
- **Borehole shear testing**
- **Directional Sonic drilling**
- Optical televiewer (OTV)

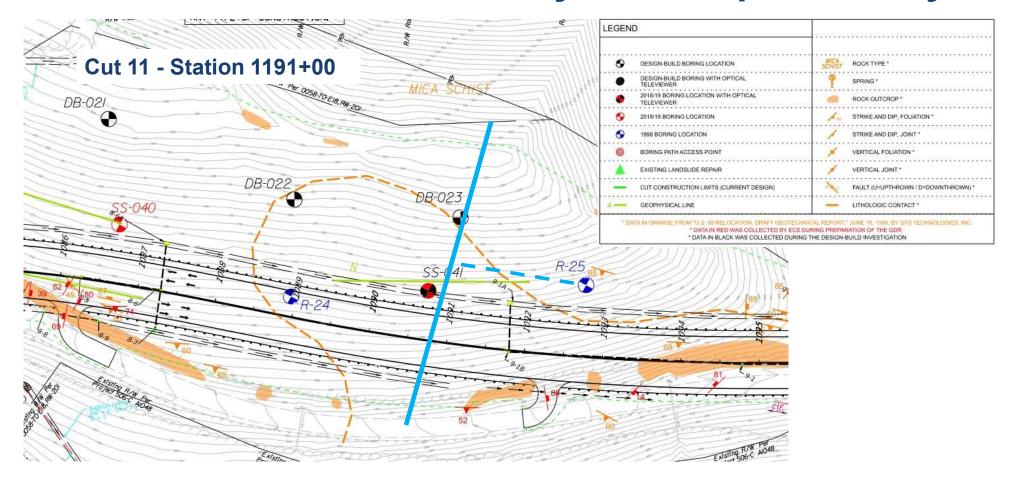












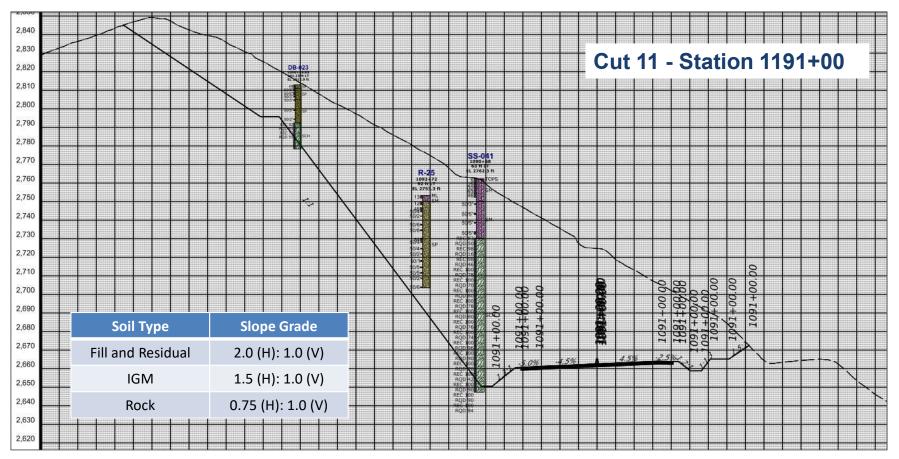










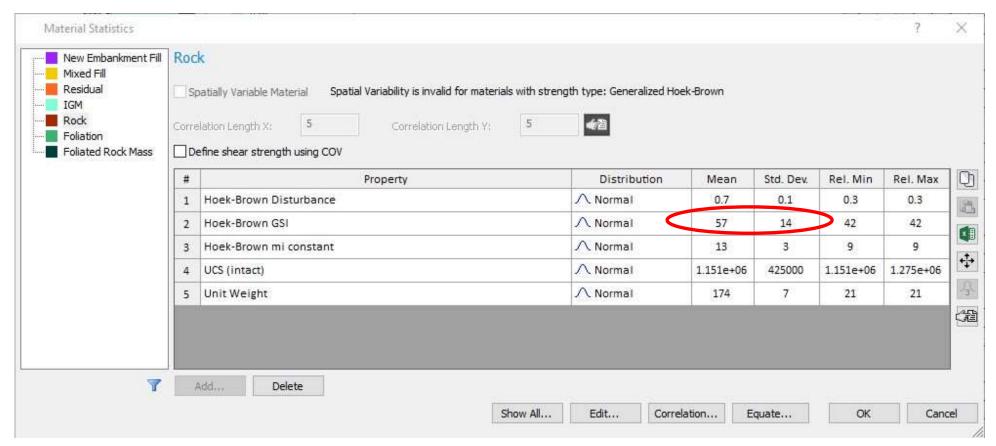












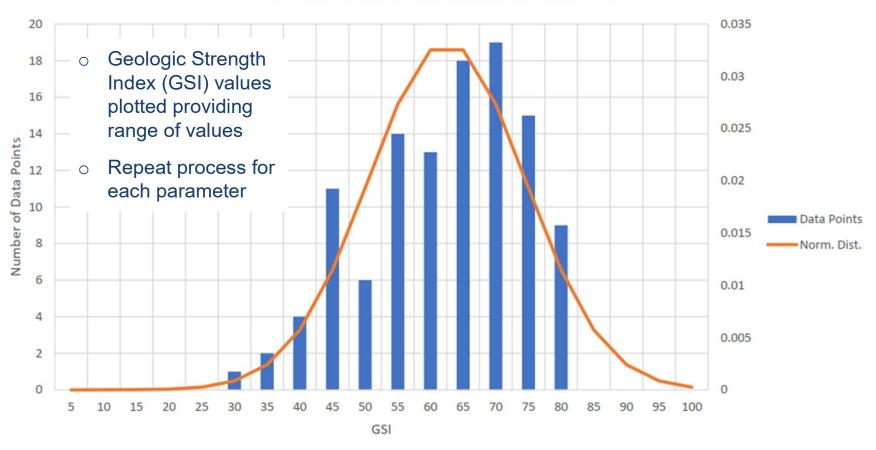








GSI Data Sorted and Assumed Normal Dist.

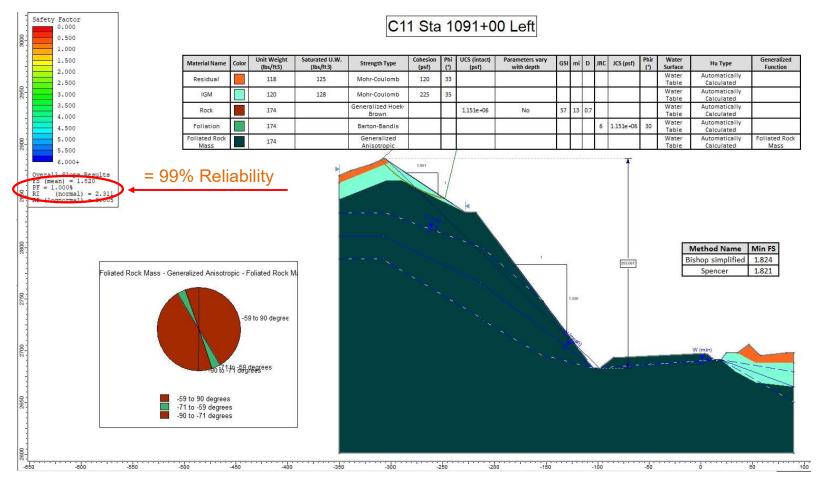








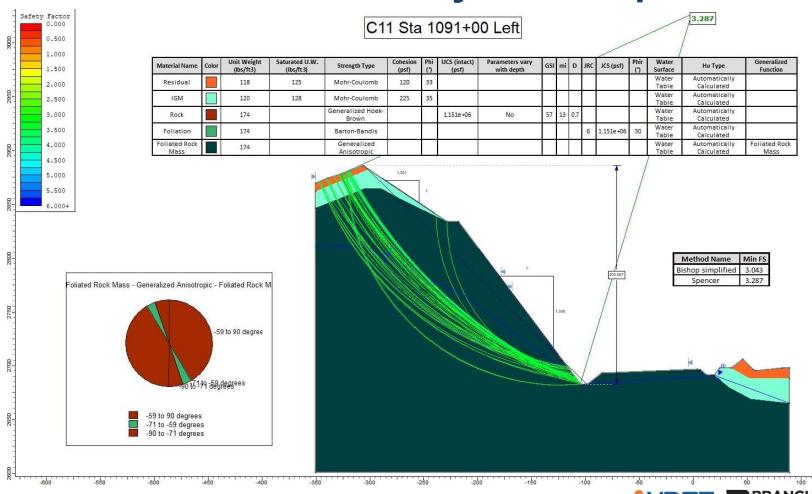








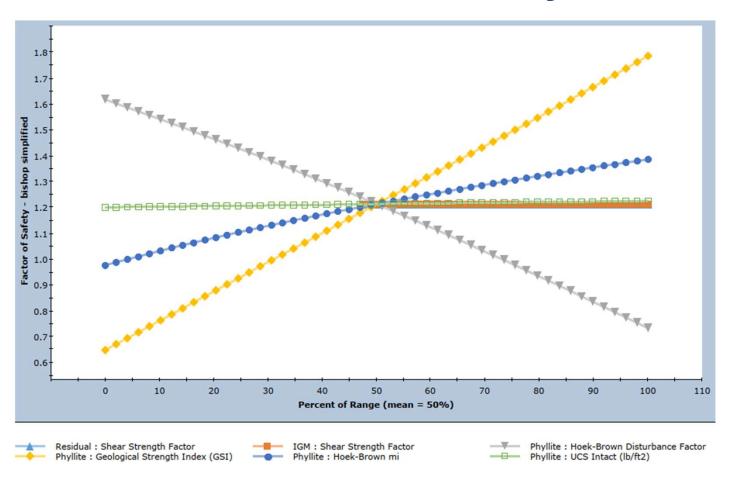




Route 58/Lovers Leap | 2025 STGEC | Williamsburg, VA







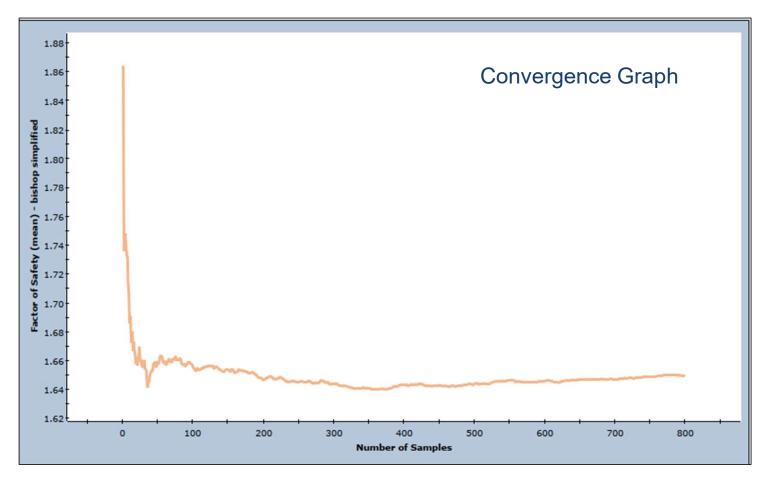
- Sensitivity Analysis
- Each color represents a parameter
- Other parameters held constant
- Observe sensitivity to statistical variance









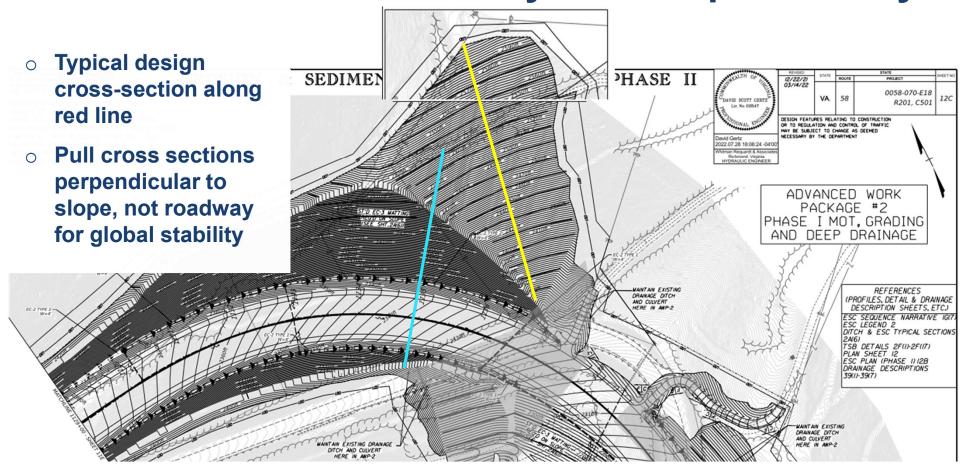






















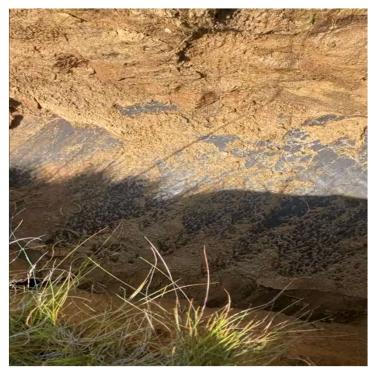












Slickenside feature separating colluvium soil from residual soils

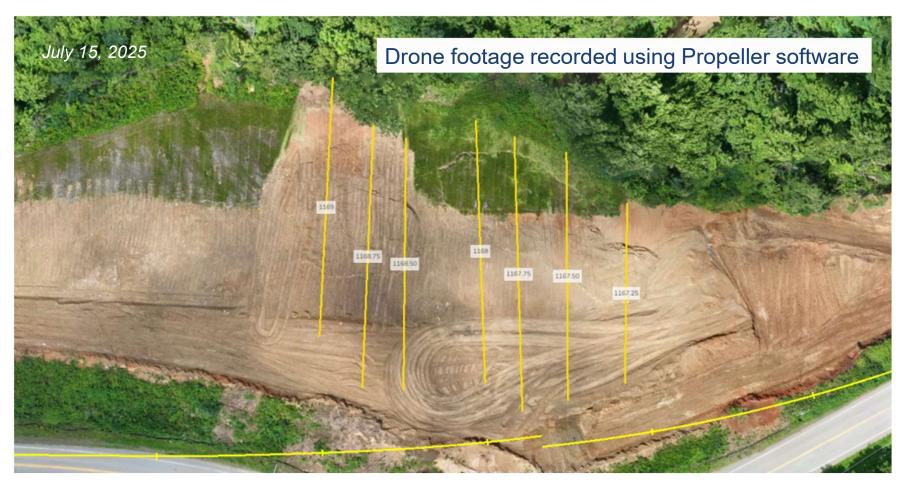








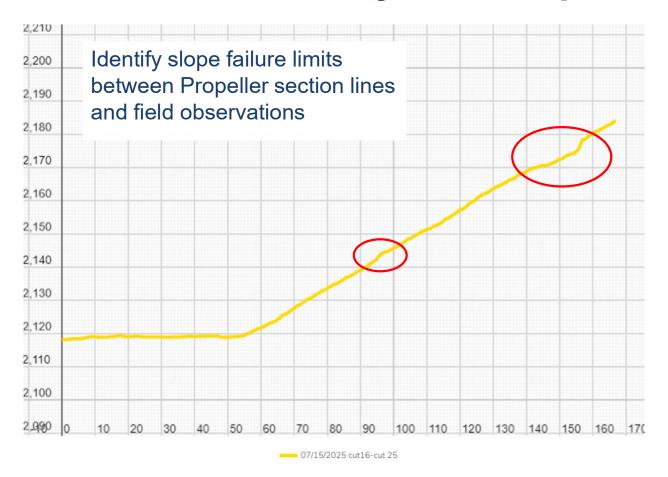




















Observed IGM underneath residual layer above black slickenside surface

Residual soils are a different color and soil is more structured underneath



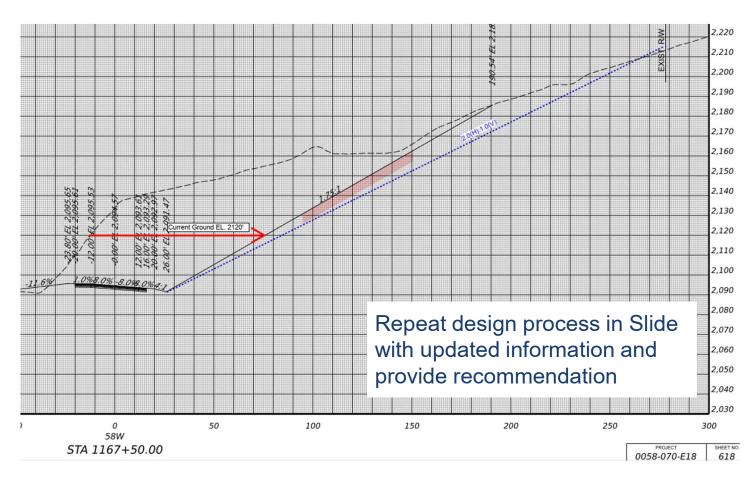




















Retaining Wall B – 264 feet long









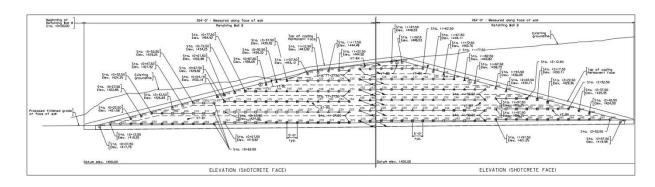


Retaining Wall C – 1670 feet long (over ¼ mile)



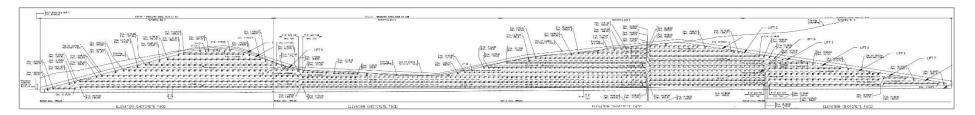






Retaining Wall B (top)

- 264 feet long
- Maximum height of 32 feet
- 299 performance nails
- Nail length ranges from 10 to 40 feet



Retaining Wall C (bottom)

- o 1670 feet long
- Maximum height of 37 feet

- o 925 performance nails
- Nail length ranges from 20 to 60 feet











Construction at Retaining Wall B

Proof testing at every ~20 nails















Complete soil nail installation and temporary shotcrete facing

Final facing to be installed later



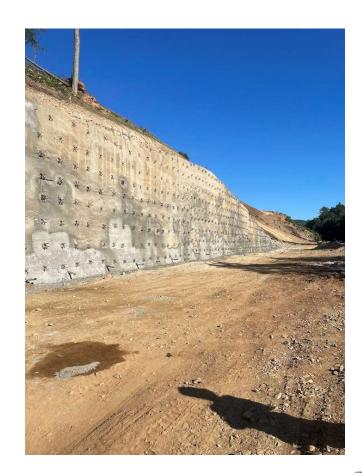








Complete soil nail installation and shotcrete facing











Current Status



Cut 3 New Roadway

Fill 9 SWM Basin

Work Remaining	Total Volume	Total Length	Percentage Remaining
Cut Excavation	160,000 CY	-	4.4%
Fill Volume	280,000 CY	-	1.9%
Storm Drain Length	-	13,000 LF	26%











June 30, 2025









Summer 2022









June 2025









