



SOUTHEAST TRANSPORTATION GEOTECHNICAL ENGINEERING CONFERENCE (STGEC)

| Shane Mann, P.E., Deputy Chief Engineer

September 16, 2025

Welcome

On behalf of VDOT's Commissioner and Chief Engineer,



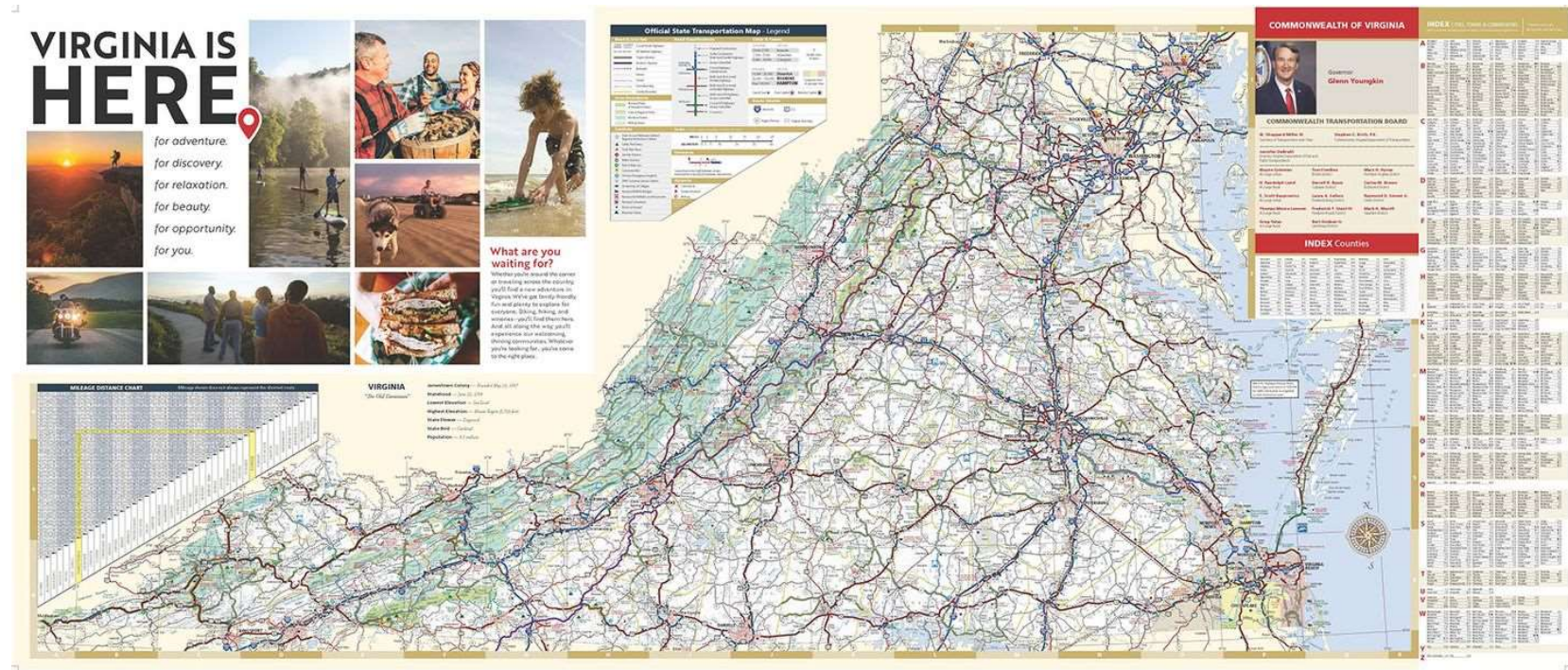
Stephen Brich, P.E.



Bart Thrasher, P.E.

Welcome

WELCOME to the Commonwealth of Virginia!



Introduction

My background:

- **BSCE (Old Dominion Univ.), MSCE (Univ. of Virginia)**
- **Structural/Geotechnical background**
- **Ralph Whitehead Associates (STV) – 15 years**
 - Bridges (Highway and Rail)
- **Structural Engineering Concepts – 5 years**
 - Sheeting/Shoring/Foundations
- **VDOT – 15 years**
 - Construction/Managment

VDOT Facts

VDOT facts:

- **Third largest state-maintained roadway network (TX/NC)**
 - **129,000+ miles of roadway and over 10,000 structures**
 - **5,600+ miles of Interstate, 22,600+ miles of Primaries, 101,500 miles of Secondaries**
- **Annual budget for FY2026 is \$8.3B**
 - **~\$3.6B Construction Fund**
 - **~\$3.2B Maintenance Fund**

VDOT Facts

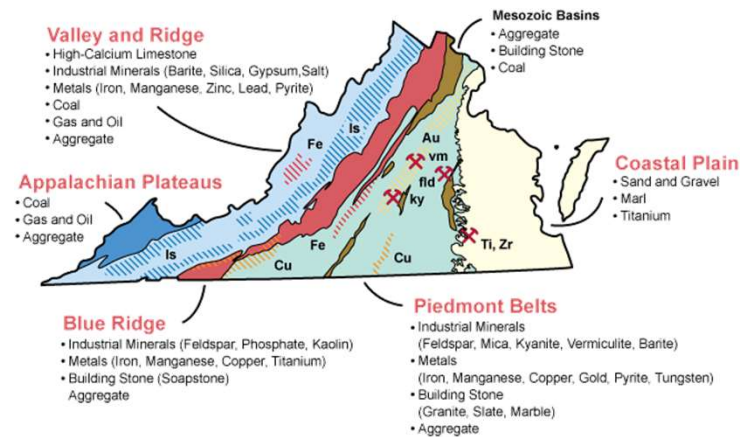
VDOT facts:

- ~8,000 full-time employees
- Broken into 9 Construction Districts



VDOT Facts

These nine districts cover five diverse geologic provinces ranging from shorelines in the east to the Appalachian Mountains in the west. Each of these geologic formations poses unique and varied challenges to highway construction.



VDOT Facts

- **Some VDOT districts have inhouse geotechnical exploration capabilities.**

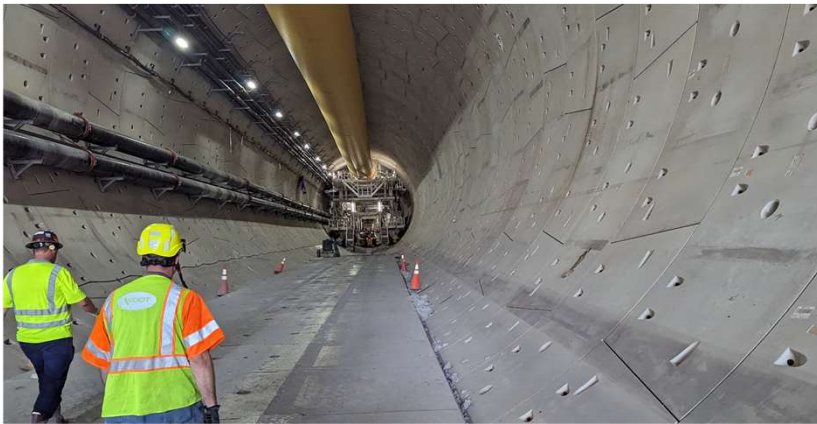


- **VDOT also uses industry partnerships for geotechnical exploration and geotechnical analysis/design.**

VDOT Major Projects

Major Projects:

- **HRBT Expansion**
 - **\$3.9B project to add twin, two-lane 45-foot diameter bored tunnels from Hampton to Norfolk on Interstate 64**

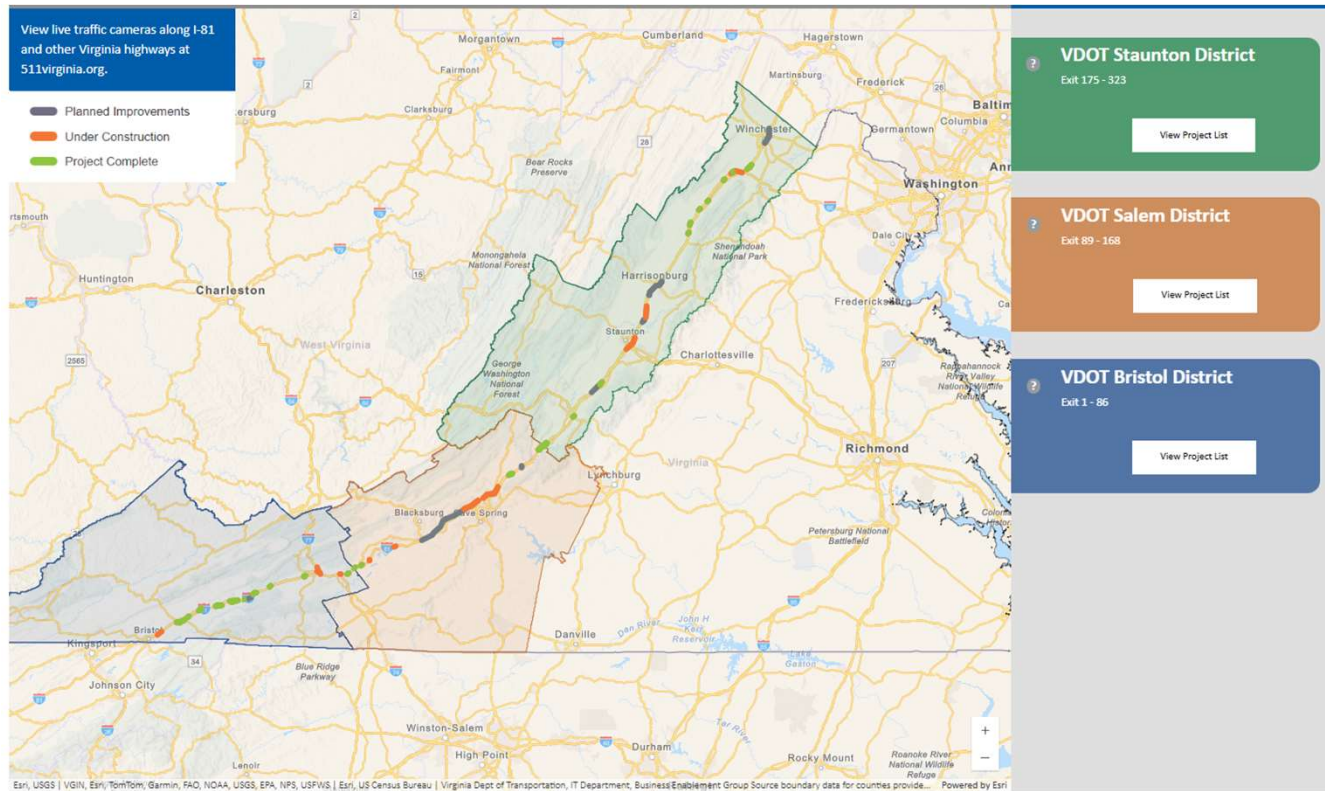


VDOT Major Projects

Major Projects:

- **Interstate 81 Corridor Improvement Project**
 - 30% truck traffic – highest in Virginia
 - 65 projects in first tranche along the 325-mile corridor
 - Truck Climbing Lanes, Accel/Decel Lanes, Aux Lanes
 - Since 2018 start, 35 projects complete/16 under CN
 - Funded by regional fuels tax and portion of Interstate Operations and Enhancement Fund - ~\$215M/year dedicated funding

VDOT Major Projects



VDOT Major Projects

Major Projects:

- **Route 58 Lover's Leap**
 - **\$300M Design-Build project**
 - **Widen 7.4 miles of Route 58**
 - **10M cubic yards of material to be moved**
 - **Started in 2022, completion in 2026**

VDOT Major Projects



VDOT Major Projects

Major Projects:

- **US 460/121 Poplar Creek (Corridor Q)**
 - **\$207M Design-Build-Bid project**
 - **New 4-lane roadway and bridge over railroad and the Levisa Fork**
 - **Bridge is 175 feet tall – second tallest bridge in Virginia**
 - **310-foot-tall shot rock over 2,300-foot triple box culvert – deepest box in United States**
 - **Lots of geotechnical interest in this project**

VDOT Major Projects



Williamsburg

Colonial Williamsburg

- **First Capital was Jamestown in 1607**
- **Capital moved in 1699**
- **Originally named Middle Plantation**
- **Re-named to Williamsburg for King William III**
- **Colonial Capital from 1699 to 1780**
- **Restored to original 18th Century appearance in 1920s**

Williamsburg

Personal recommendations:



Governor's Palace



Bruton Parish Church

Thank you

Thank you for attending the STGEC in Virginia!

I trust you will experience some excellent learning opportunities and opportunities to expand your professional network.

Please ask any VDOT staff for assistance if needed.

