





ROUTE 220 AND ROUTE 419 DIVERGING DIAMOND INTERCHANGE AND INTERSECTION IMPROVEMENTS

“Pardon our Dust” Meeting

Presenter: Alex Price, District Location & Design Engineer

| UPC 115460 & UPC 110887

February 2025

Meeting Purpose

- **Share information about upcoming road work along Route 419 and Route 220.**
- **Explain the intent and benefits of the improvements.**
- **Provide information about potential impacts to travel during construction.**

- **Please save your questions for after the presentation. A breakout room will be available for staff to answer your questions.**

Meet Your Project Team



Chad Corns

Construction Manager

Tony Handy

Area Construction Engineer

Robert Griffith

District Construction Engineer



Billy Vaught

Project Manager

Trey Joyce

Assistant Project Manager

Nathaniel LaPrade

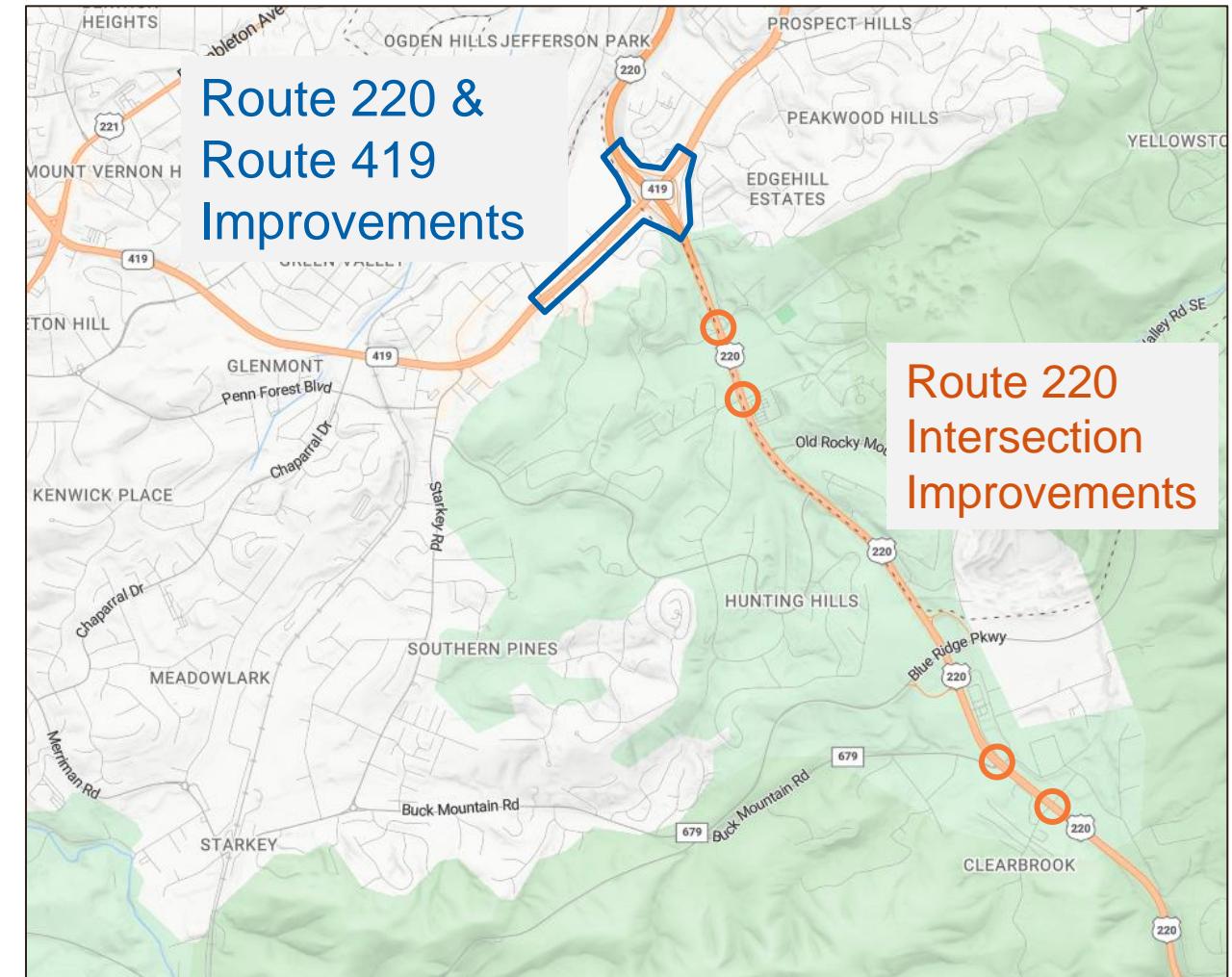
Project Engineer

Chris Mayo

Superintendent

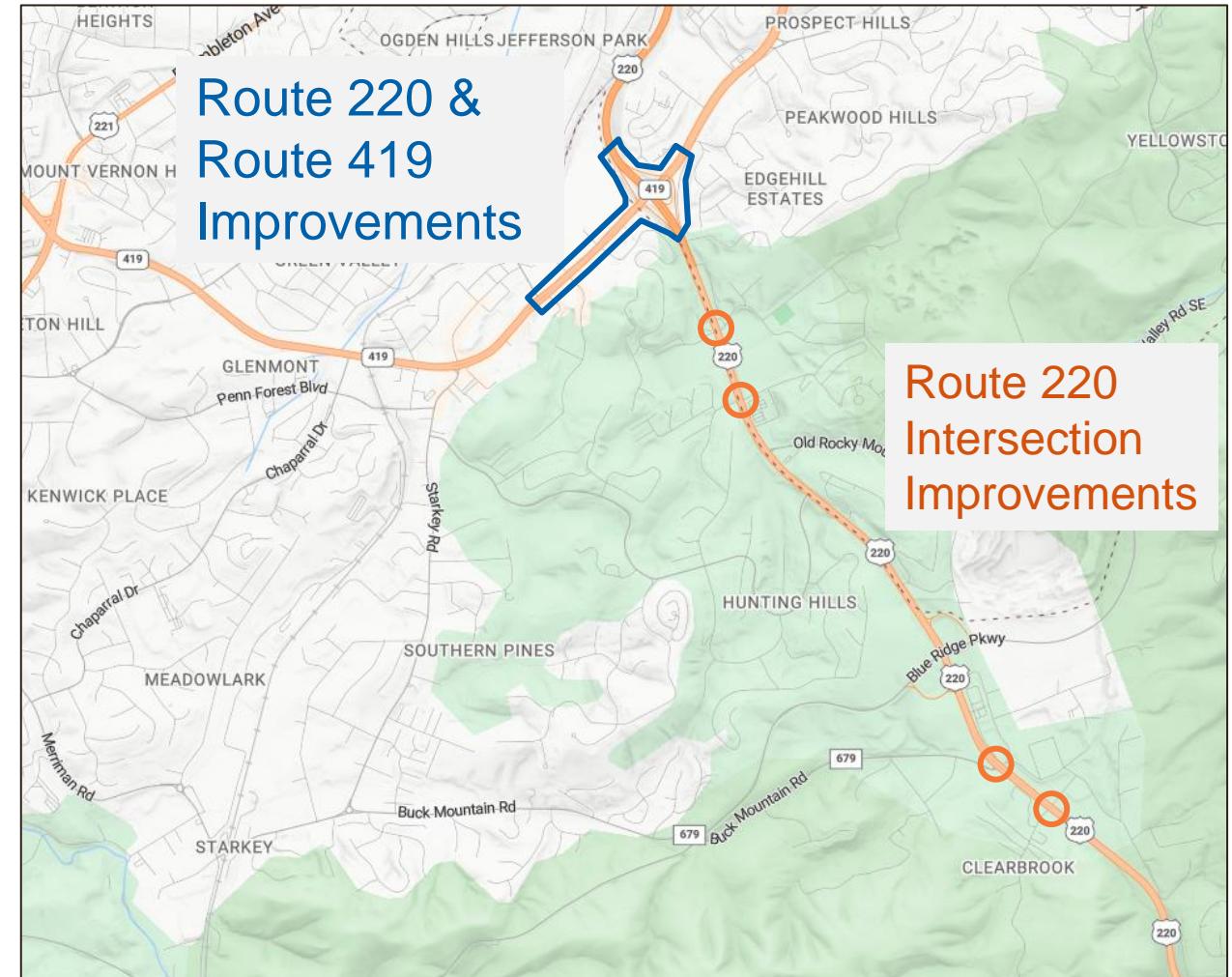
Project Overview – Roanoke & Roanoke County

- **Route 220 and Route 419 Diverging Diamond Interchange (DDI) & Route 419 Intersection Improvements (\$18.6 million)**
- **Route 220 Intersection Improvements (\$6 million)**
- **Construction cost total of approximately \$25 million**



Current Status

- **Public Hearings for each project were held in 2021**
- **Contract awarded in 2024**
- **Construction anticipated to begin in Spring 2025**
- **Construction completed in Fall 2028**



Project Overview – Route 220 and Route 419 DDI

- Converts the existing interchange to a Diverging Diamond
- Includes pedestrian / bicycle accommodations along Route 419 through the interchange
- No major changes to mainline Route 220 at the interchange



Project Overview – Route 419 Intersection Improvements

- **Modifies intersection at Ogden Road to allow only right-turns to and from Freedom First Bank**
- **Converts two other intersections along Route 419 to Thru-cuts**
- **This section of Route 419 was previously widened (completed in 2022).**



Route 419 at Ogden Road



Route 419 at Elm View Road

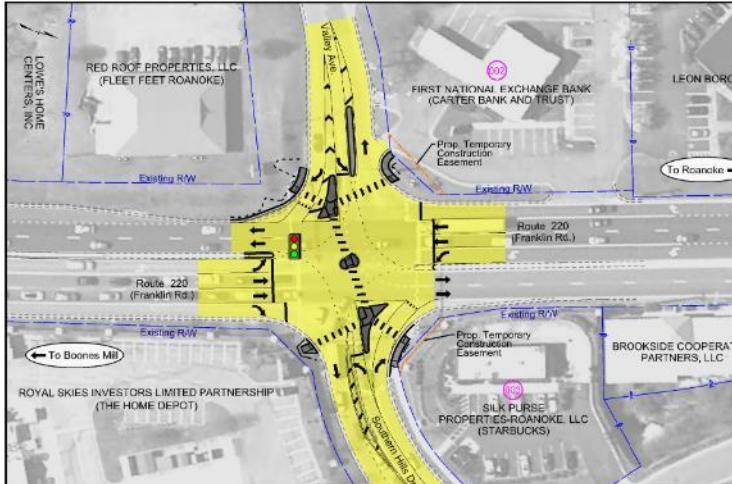


Route 419 at South Peak Boulevard

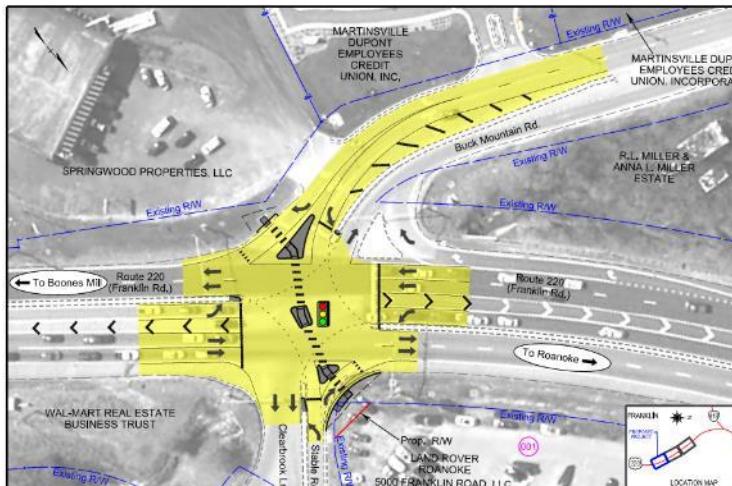
Project Overview – Route 220 Intersection Improvements

- Converts four signalized intersections to Thru-Cuts along Route 220 in Roanoke County

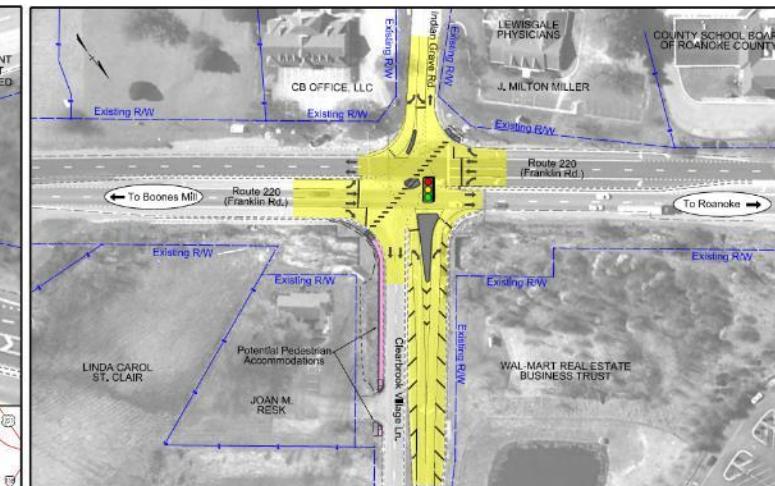
Route 220 at Southern Hills Drive/Valley Avenue



Route 220 at Pheasant Ridge Road/Crossbow Circle



Route 220 at Buck Mountain Road/Stable Road



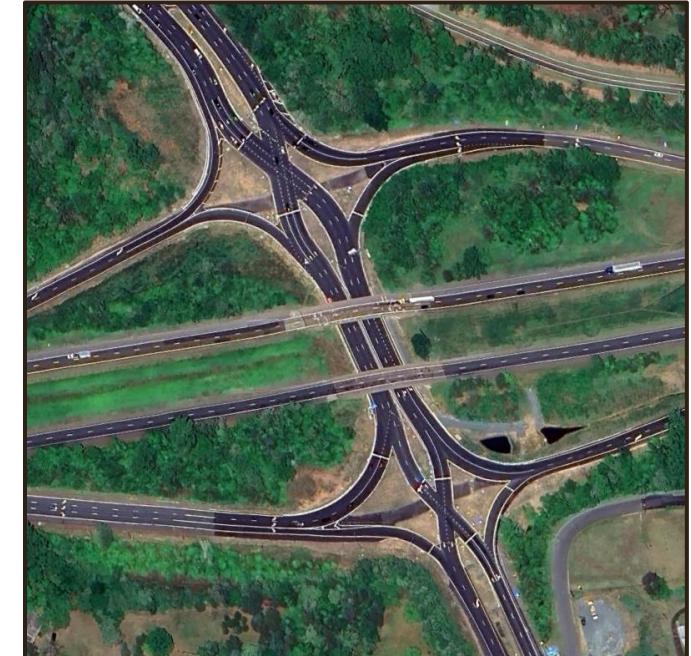
Route 220 at Clearbrook Village Lane/Indian Grave Road

What is a Diverging Diamond Interchange (DDI)?

- Innovative interchange which are safer and more efficient
- Used locally at I-581 / Valley View Boulevard and at Route 460 / Southgate Drive (Blacksburg)



I-581 at Valley View Boulevard



I-64 at Route 250,
Charlottesville, VA

What is a Thru-Cut?



Benefits of Thru-Cuts

Improved Safety - Reduces the number of points where vehicles cross paths

Increased Efficiency - Reduces traffic signal phases by redirecting the side street through movements, which reduces delay and increases capacity

Cost-effective - Is more cost-effective than adding lanes to increase capacity

Traffic Impacts During Construction

Route 220 and Route 419 Diverging Diamond Interchange

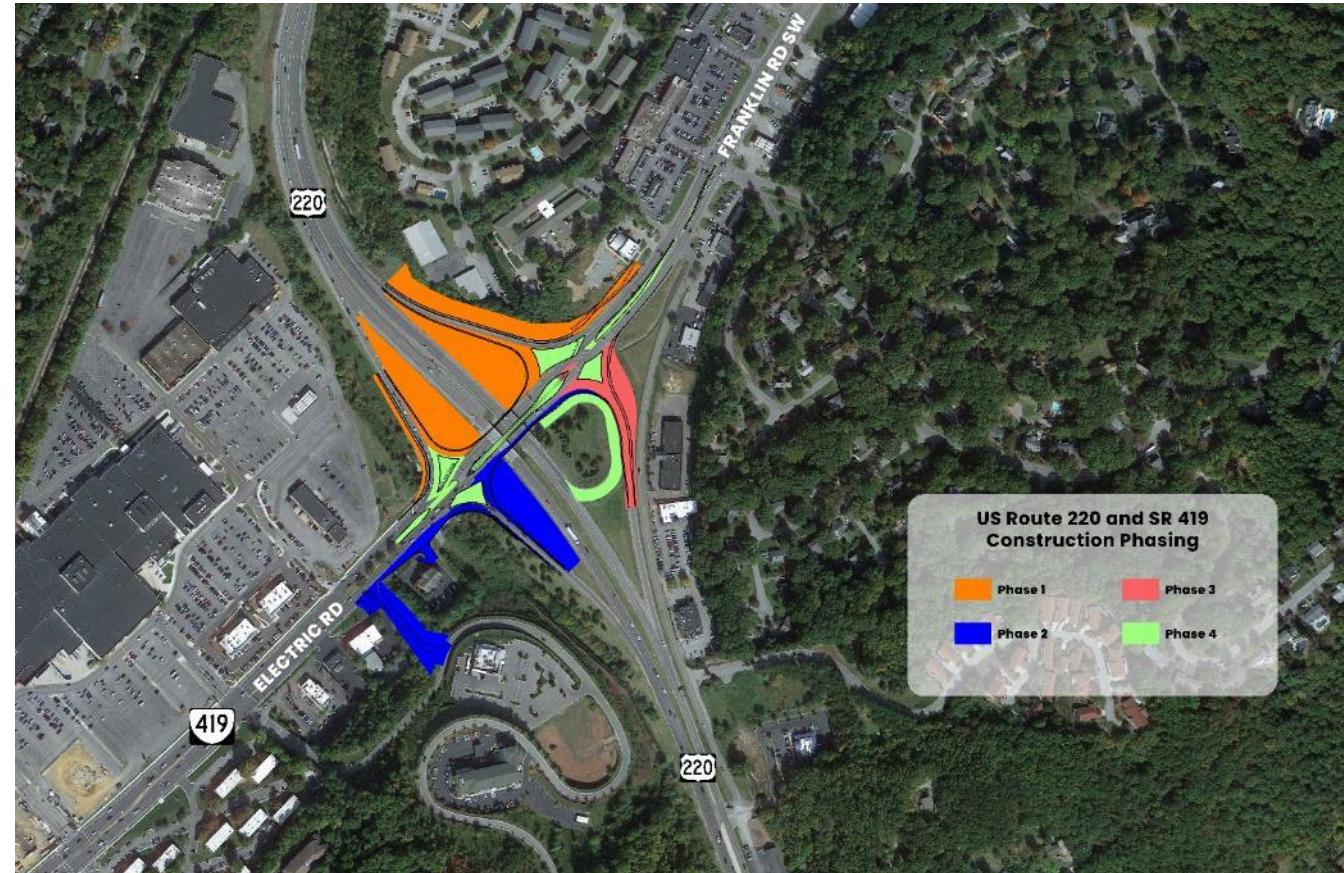


How do we modify an interchange and keep traffic moving?

Traffic Impacts During Construction

Route 220 and Route 419 DDI & Route 419 Intersections

- Carefully planned construction sequence and maintenance of traffic plan
- 4 phases of construction
- Anticipated start in Spring 2025
- Anticipated completion in Fall 2028



Traffic Impacts During Construction

Route 220 and Route 419 DDI & Route 419 Intersections

- **Lane closures may only occur from 7 PM to 6 AM weekday or weekends.**
- **All existing lanes open during peak travel times.**
- **Access to homes and business will be maintained throughout the life of the project.**

Traffic Impacts During Construction

Route 220 and Route 419 DDI & Route 419 Intersections

- Drivers should expect:
 - Temporary nighttime lane closures
 - Shoulder closures
 - Narrowed ramps or travel lanes at times
 - Rerouting turning movements to/from Route 419 during nighttime hours while intersections are under construction.



Sequence of Construction

Route 220 and Route 419 DDI & Route 419 Intersections – Phase 1

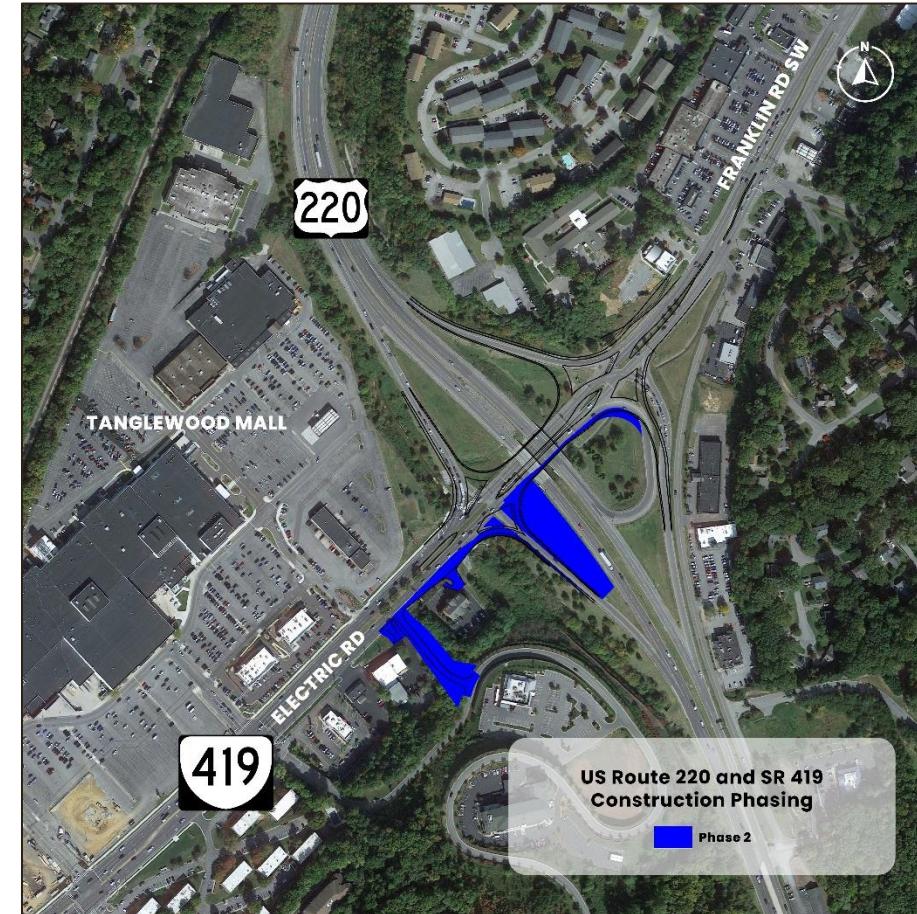


- **Anticipated Start: Spring 2025**
- **Anticipated Finish: Fall 2025**
- **Work Activities: Work adjacent to existing ramps on north side of Route 419.**
- **This work will occur while the improvements are being constructed at the Route 220 with Valley Avenue/Southern Hills Drive intersection.**

Sequence of Construction

Route 220 and Route 419 DDI & Route 419 Intersections – Phase 2

- **Anticipated Start: Fall 2025**
- **Anticipated Finish: Spring 2026**
- **Work Activities:** Work adjacent to existing ramps on south side of Route 419. Construct new entrance from South Peak Boulevard to Route 419.
- To begin after the improvements are completed at the Route 220 with Valley Avenue/Southern Hills Drive intersection.



Sequence of Construction

Route 220 and Route 419 DDI & Route 419 Intersections – Phase 3

- **Anticipated Start: Spring 2026**
- **Anticipated Finish: Summer 2026**
- **Work Activities: Work to construct new ramp from Route 220 northbound to Route 419.**



Sequence of Construction

Route 220 and Route 419 DDI & Route 419 Intersections – Phase 4

- **Anticipated Start: Summer 2026**
- **Anticipated Finish: Spring 2027**
- **Work Activities:**
 - Construct new medians along Route 419.
 - Construct Intersection Improvements at Ogden Road, Elm View Road, and South Peak Boulevard.
 - Construct the concrete islands on the north side and south sides of Route 419.
 - Install overhead signage
 - Drivers will start using the DDI

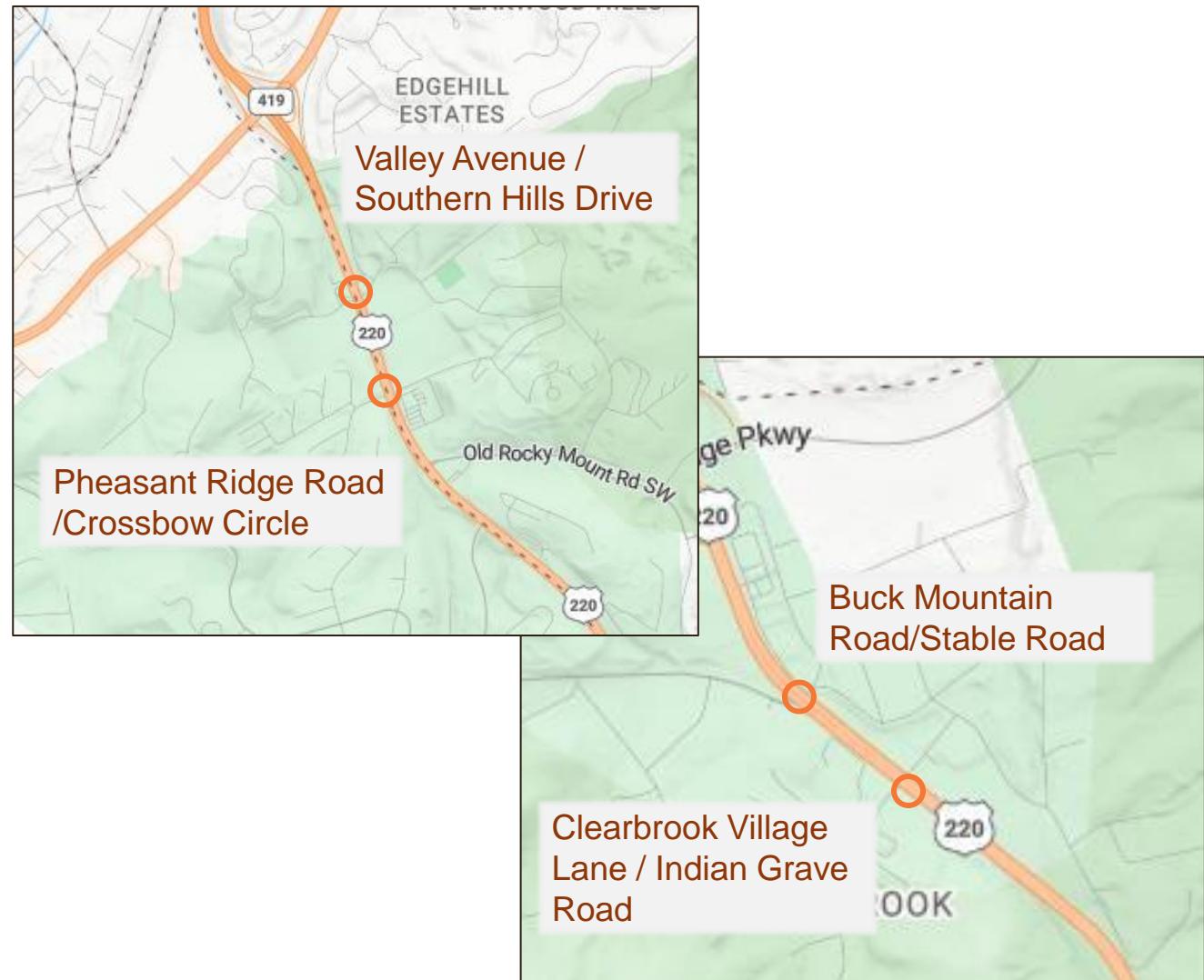


Sequence of Construction – Route 220

Improvements to be completed at 4 intersections in Roanoke and Roanoke County.

Work intended to occur in pairs:

- **Valley Avenue/Southern Hills Drive**
- **Pleasant Ridge Road/Crossbow Circle**
- **Buck Mountain Road/Stable Road**
- **Clearbrook Village Lane/Indian Grave Rd**



Traffic Impacts During Construction

Route 220 Intersections

- **Lane closures may only occur from 7 PM to 6 AM weekday or weekends.**
- **All existing lanes open during peak travel times.**
- **Access to homes and business will be maintained throughout the life of the project.**



Traffic Impacts During Construction

Route 220 Intersections

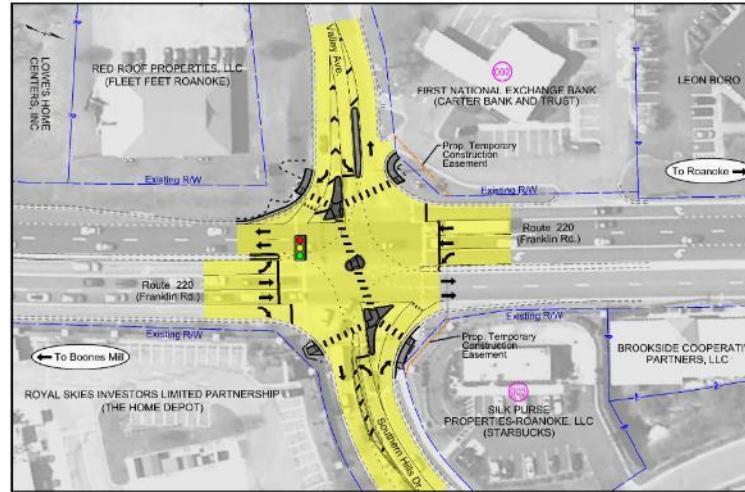
- Drivers should expect:
 - **Temporary nighttime lane closures**
 - **Shoulder closures**
 - **Narrowed travel lanes at times**
 - **Rerouting turning movements to/from Route 220 during nighttime hours (9 PM – 6 AM) while intersections are under construction.**
 - **One month detour of Stable Road**

Traffic Impacts During Construction – Route 220

Route 220 at Southern Hills Drive / Valley Avenue Route 220 at Pheasant Ridge Road / Crossbow Circle

- **Anticipated Start: Spring 2025**
- **Anticipated Finish: Fall 2025**
- **Intersections to be constructed concurrently**
- **Work Activities:**
 - Construct concrete islands
 - Replace signal at Southern Hills
 - Modify signal at Pheasant Ridge
- **This work will be completed concurrently with Phase 1 at Route 419/Route 220 DDI.**

Route 220 at Southern Hills Drive/Valley Avenue



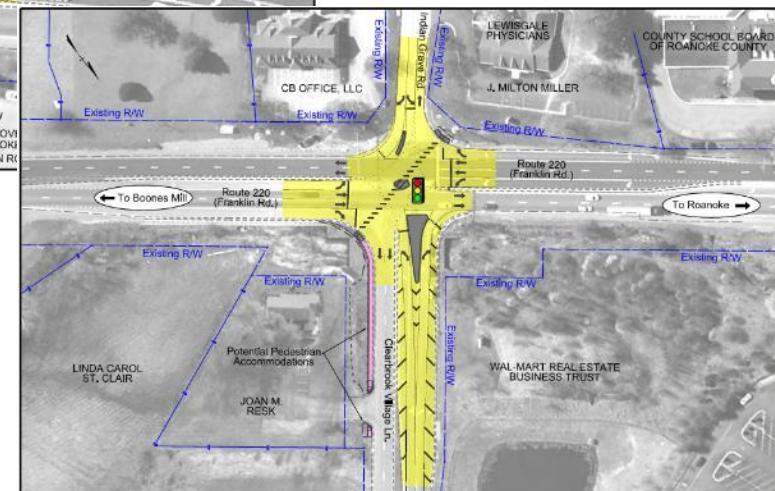
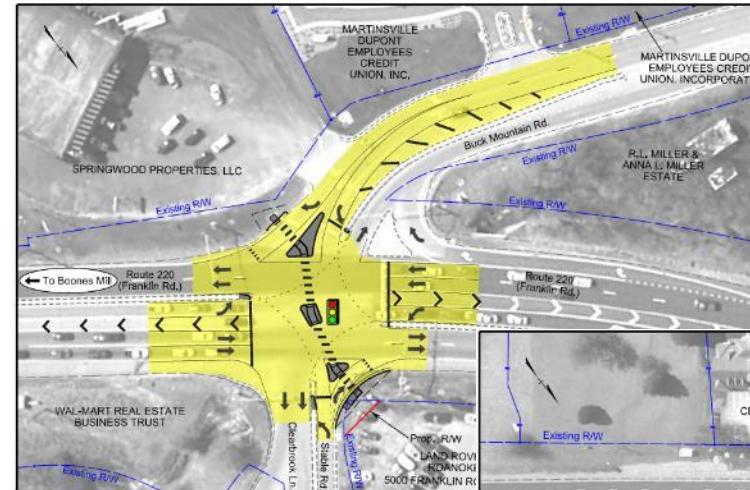
Route 220 at Pheasant Ridge Road/Crossbow Circle

Traffic Impacts During Construction – Route 220

Route 220 at Buck Mountain Road / Stable Road Route 220 at Clearbrook Village Lane / Indian Grave Road

- **Anticipated Start: Spring 2027**
- **Anticipated Finish: Spring 2028**
- **Intersections constructed one at a time**
- **Work Activities:**
 - Construct concrete islands
 - Modify signals at each location

Route 220 at Buck Mountain Road/Stable Road

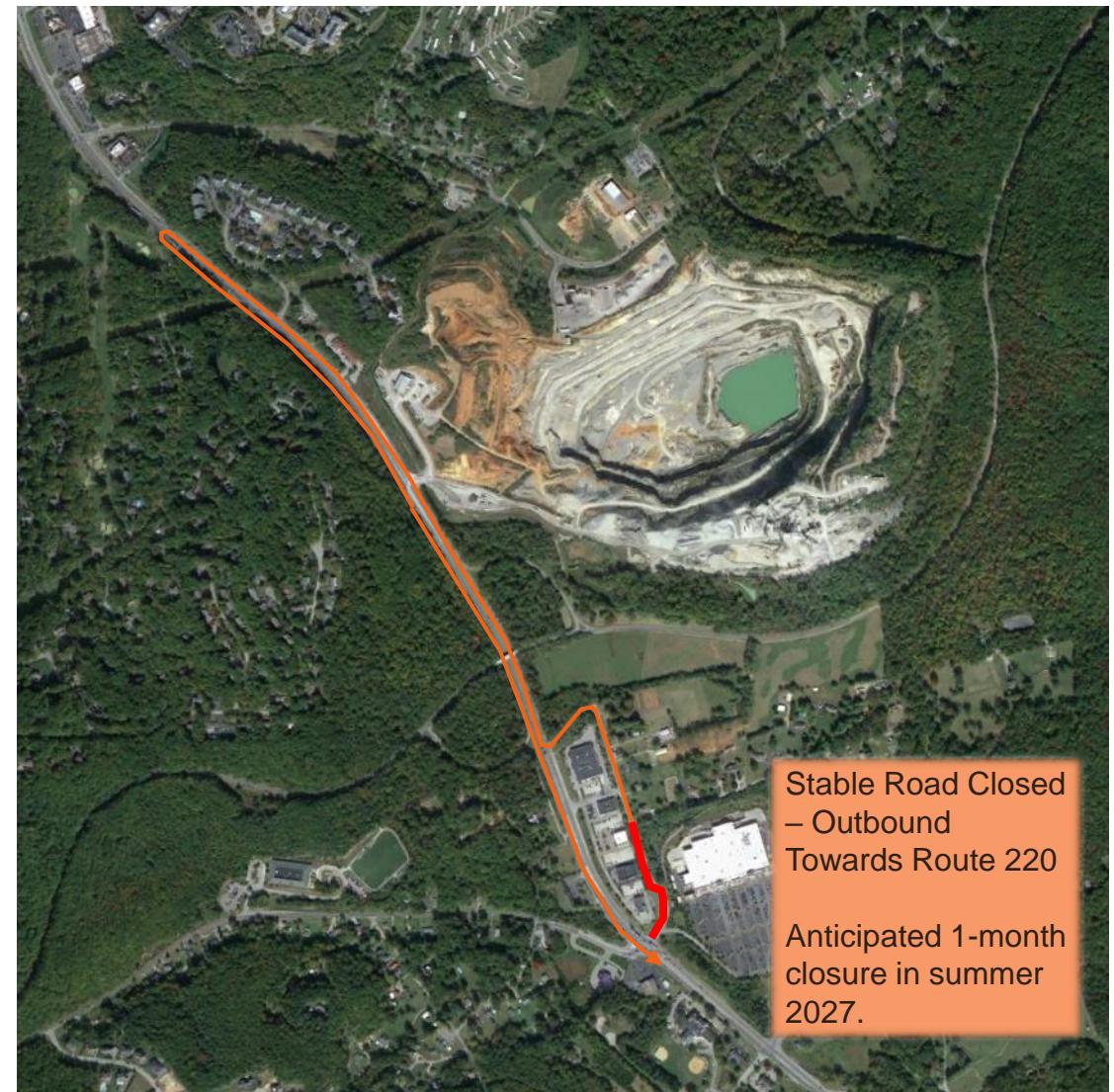


Route 220 at Clearbrook Village Lane/Indian Grave Road

Traffic Impacts During Construction – Route 220

Stable Road Detour (Outbound Only)

- Summer 2027
- Approximately one month
- Between Singing Hills Road and Route 220 (signalized intersection)
- Traffic will use the northern intersection of Stable Road and turn right onto Route 220 northbound.
- For destinations along southbound Route 220 or Buck Mountain Road, traffic will make a U-turn at Hunting Hills Road.



Project & Traffic Updates During Construction

- A breakout room will be available for staff to answer your questions tonight.
- Visit the VDOT website <https://www.vdot.virginia.gov/>
- Watch for message boards with alerts for upcoming work and traffic pattern changes
- Use the VDOT 511 mobile app
- Dial 511

