# Kernersville Road Corridor Study

Winston-Salem, NC



Use traffic engineering methodologies and public engagement to identify needs and solutions for multiple modes of transportation along Kernersville Road.



### Study Area



- Southeast Winston-Salem
- 4-mile corridor
- 0.5 miles commercial
- 3.5 miles residential

- Public Engagement #1
- Draft Corridor Study
- Public Engagement #2
- Final Corridor Study

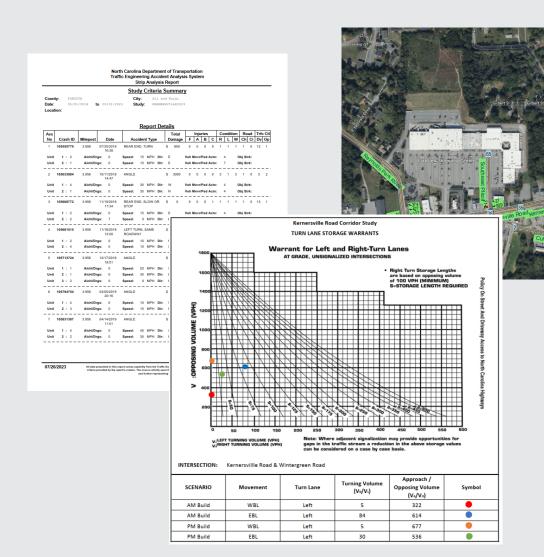


- Public Engagement #1
  - Survey and Meeting
  - Identify areas of concern
  - Potential solutions





- Draft Corridor Study
  - Review/address public comments
  - Traffic volumes
  - Turn lane warrants
  - Speed data
  - Crash summary
  - Traffic models
  - Conceptual designs
  - Opinion of probable cost



- Public Engagement #2
  - Survey and Meeting
  - Public feedback on conceptual designs



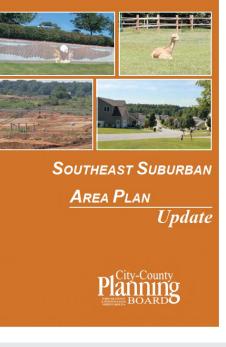
- Final Corridor Study
  - Review/address public comments
  - NCDOT reviewed conceptual designs
  - Conceptual design revisions



### Adopted Plans and Projects

- 2045 Comprehensive Transportation Plan
  - Pedestrian and Bicycle improvements
- Southeast Suburban Area Plan
  - Residential growth corridor
- Winston-Salem Bicycle Master Plan
  - Dedicated bike lanes

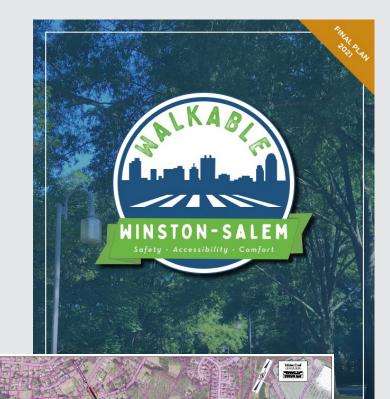






### Adopted Plans and Projects

- Walkable Winston-Salem Pedestrian Master Plan
  - Rural walkway low to moderate demand
  - Sidewalk on one side to connect commercial and residential areas
- Winston-Salem Northern Beltway (U-2579)
  - Freeway loop from US 158 to I-74
  - Interchange at Kernersville Road
  - Improvements at Linville Road and Sedge Garden Road intersections
- Kernersville Road Widening (U-6077)
  - Sedge Garden Road to Old Winston Road
  - 4-lane median divided, bike lanes, and sidewalks
  - Currently being planned/designed. Not funded



### Public Engagement #1

- What we heard
  - Speeding
  - Traffic congestion
  - Lack of turn lanes
  - Poor traffic operations at Linville Road and at Sedge Garden Road
  - Narrow shoulders (pulling over for emergency vehicles)
  - Free-flow (no traffic signals to create gaps in traffic)



### Technical Analysis

- What we found
  - Speeding on Kernersville Road where speed limit changes
  - Speeding on Old Winston Road
  - Left turn lanes warranted at multiple locations
  - Closely spaced driveways in commercial area
  - Higher crashes in commercial area

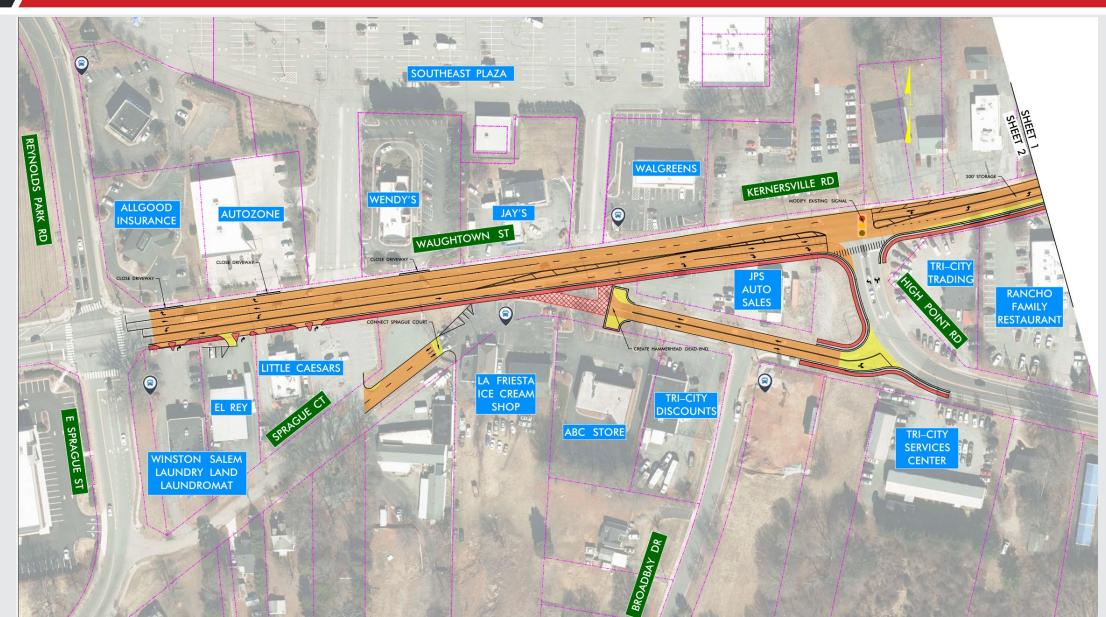


### Public Engagement #2

- Two options for commercial and residential areas
  - Option A was most preferred in both areas
  - Concerns that bike and pedestrian facilities would not be used, and might not be safe
  - Wider shoulders preferred rather than bike lanes
  - Liked left turn lanes on Kernersville Road, but some were concerned twoway left turn lanes would be used for passing



### Commercial Area – Option A



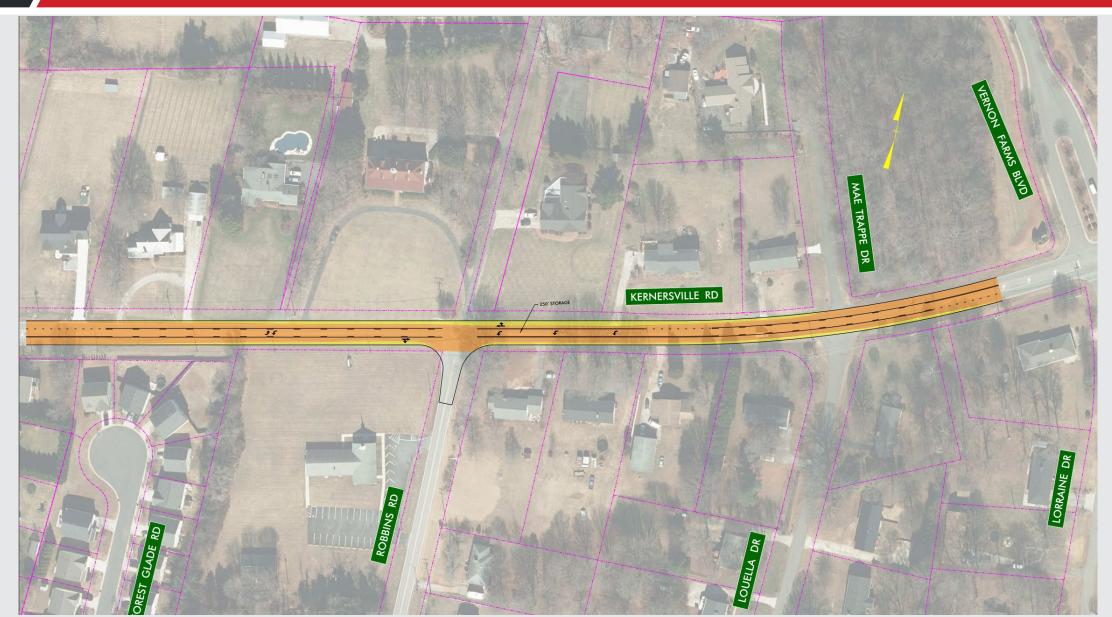


## Commercial Area – Option B



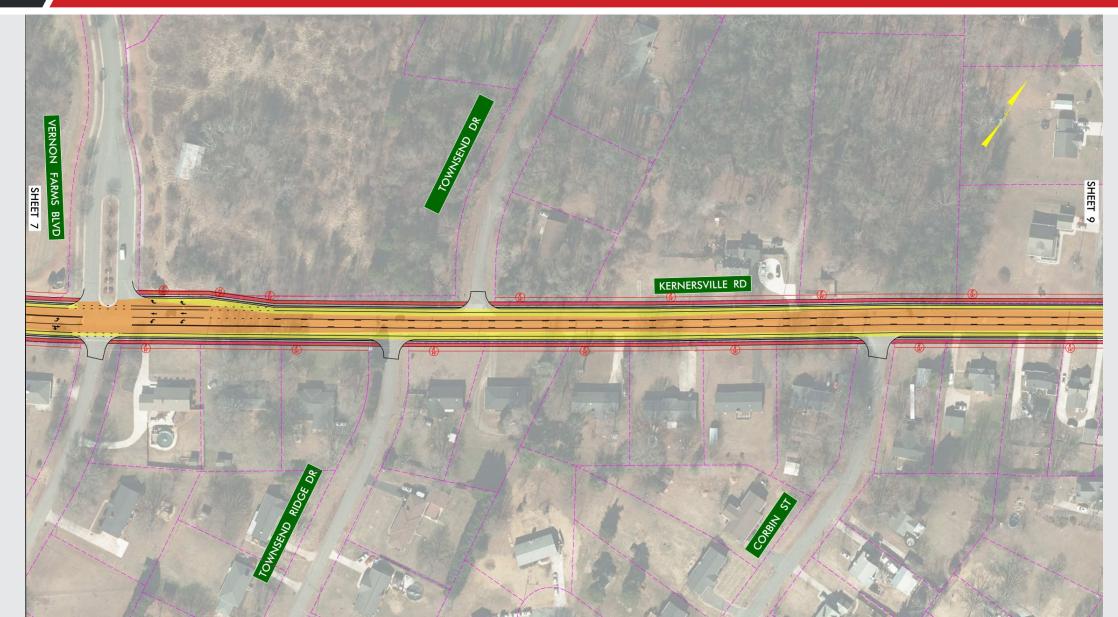


# Residential Area – Option A





# Residential Area – Option B





# Old Winston Road



# THANK YOU

