

Highway 115 Feasibility Study

Public Outreach Meeting
September 20, 2016



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AGENDA

- Introductions
- Background
- Study Process
- Potential Alternatives
- What's Next



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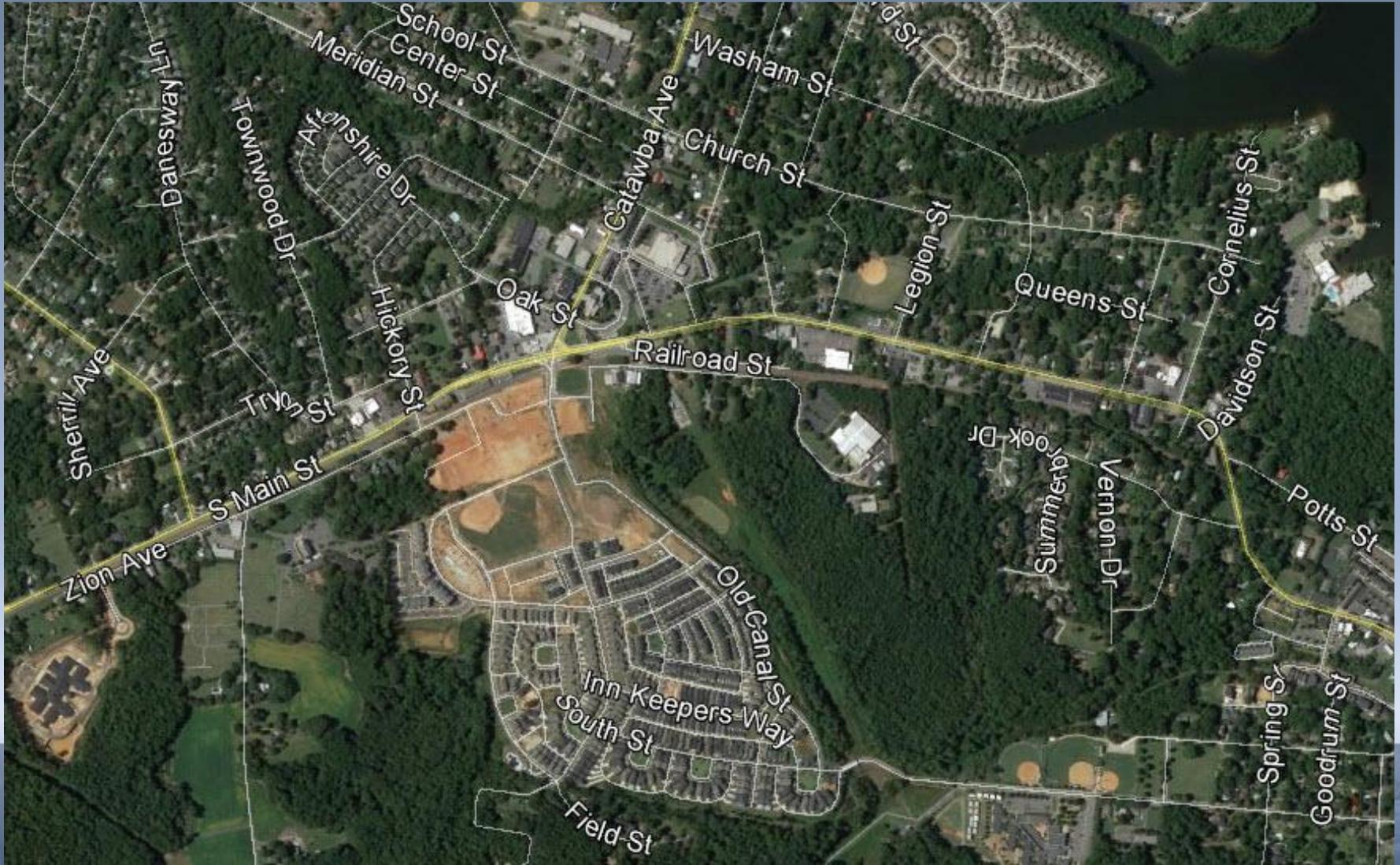
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PROJECT LIMITS



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KEY ISSUES

- Growth in Town and surrounding area
- NC 115 corridor already heavily congested
- Lack of pedestrian and bicycle facilities
- Multiple driveways and intersections create conflict points
- Constrained corridor surrounded by residential and commercial properties and NSRR
- Multiple stakeholders with different objectives



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STUDY GOALS

Identify potential projects that will:

Improve Traffic
Operations

Improve/Provide
Multi-modal
Facilities

Improve Corridor
Aesthetics

Minimize Potential
Construction Costs

Minimize ROW,
RR, and Historic
Impacts



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ASSUMPTIONS

- Utilities will be buried/relocated
- Adjacent projects complete
 - Hickory Street Extension
 - Gem Street Extension
 - Potts/Davidson/Main Street Intersection
- NSRR coordination/approval
- NCDOT coordination/approval



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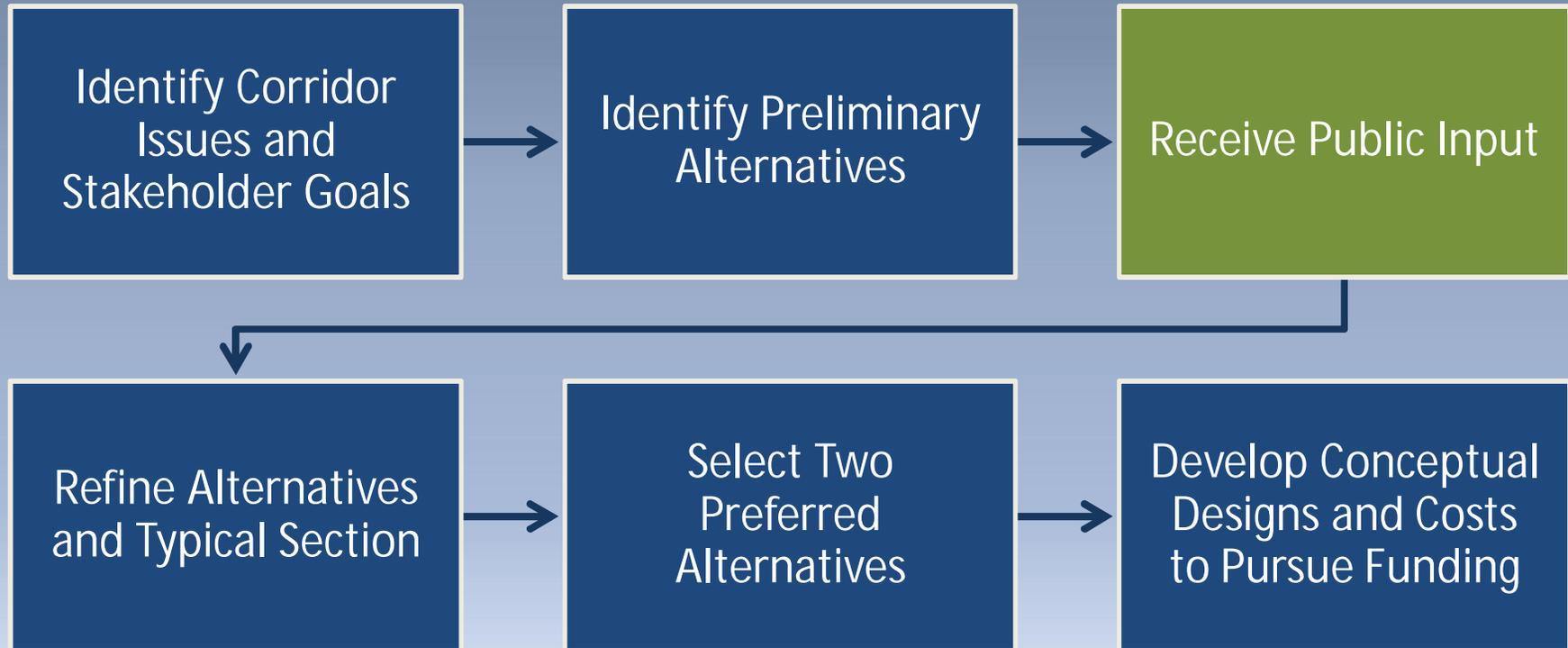
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STUDY PROCESS



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TERMINOLOGY

- Right-of-way Acquisition:
 - Property that is currently owned by NCDOT
 - *60-foot right-of-way exists along the corridor
- Property Impacts:
 - Existing cross-section is 45 feet
 - Disturbance to the area outside of the current back edge of sidewalk
 - Area in front of homes or businesses that may be impacted but is currently being mowed and maintained by owners

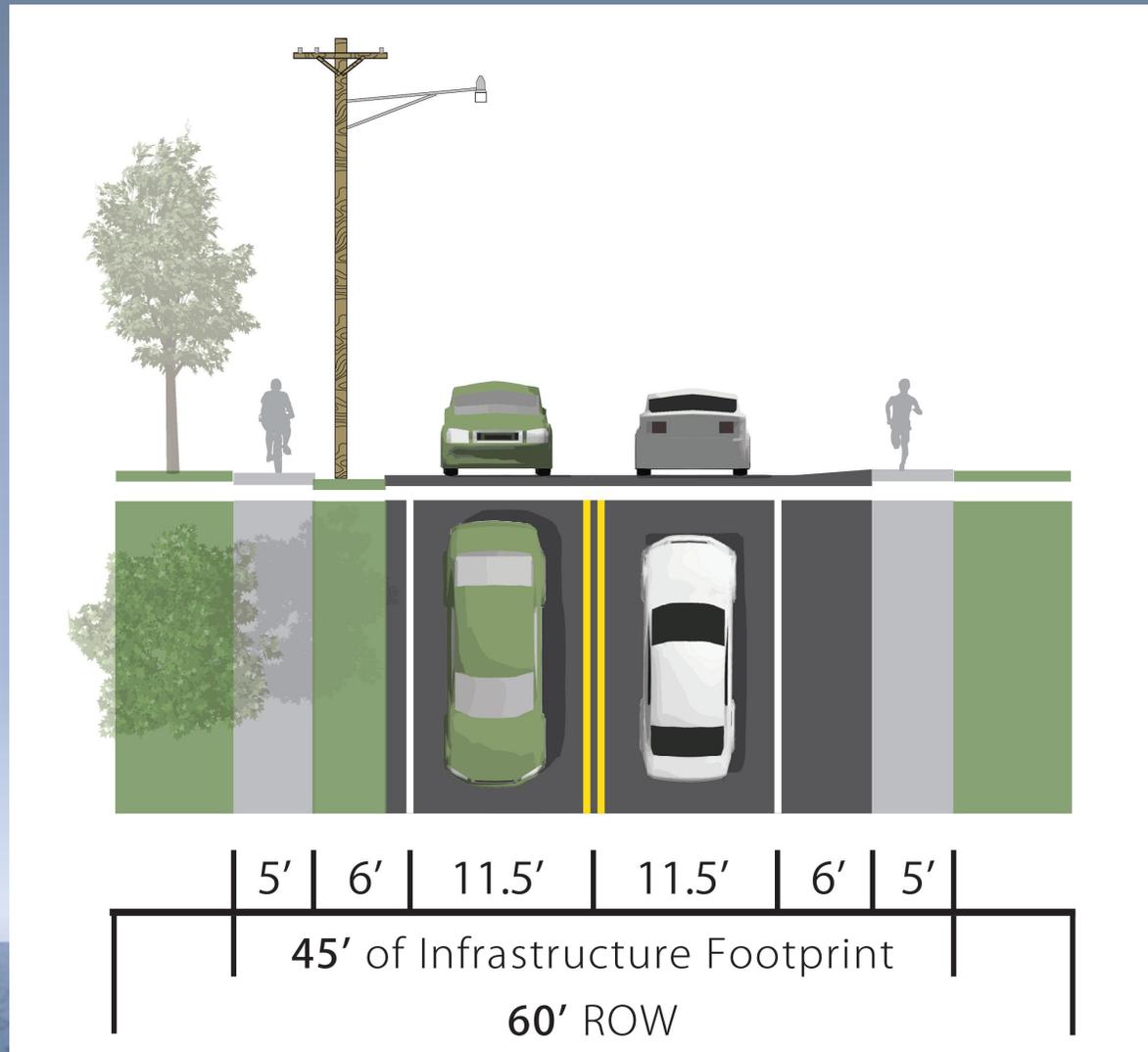
*with the exception of two properties



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EXISTING TYPICAL SECTION



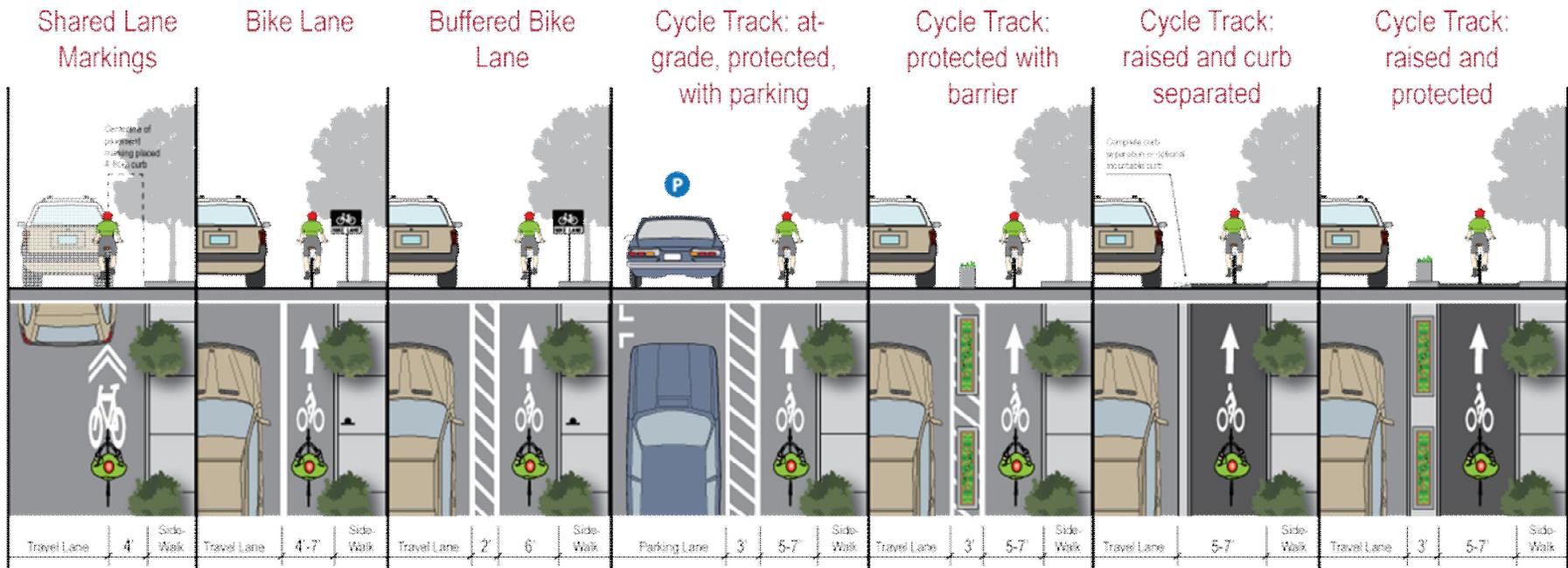
BIKEWAY CONTINUUM



On-Street Marked Bikeway Continuum

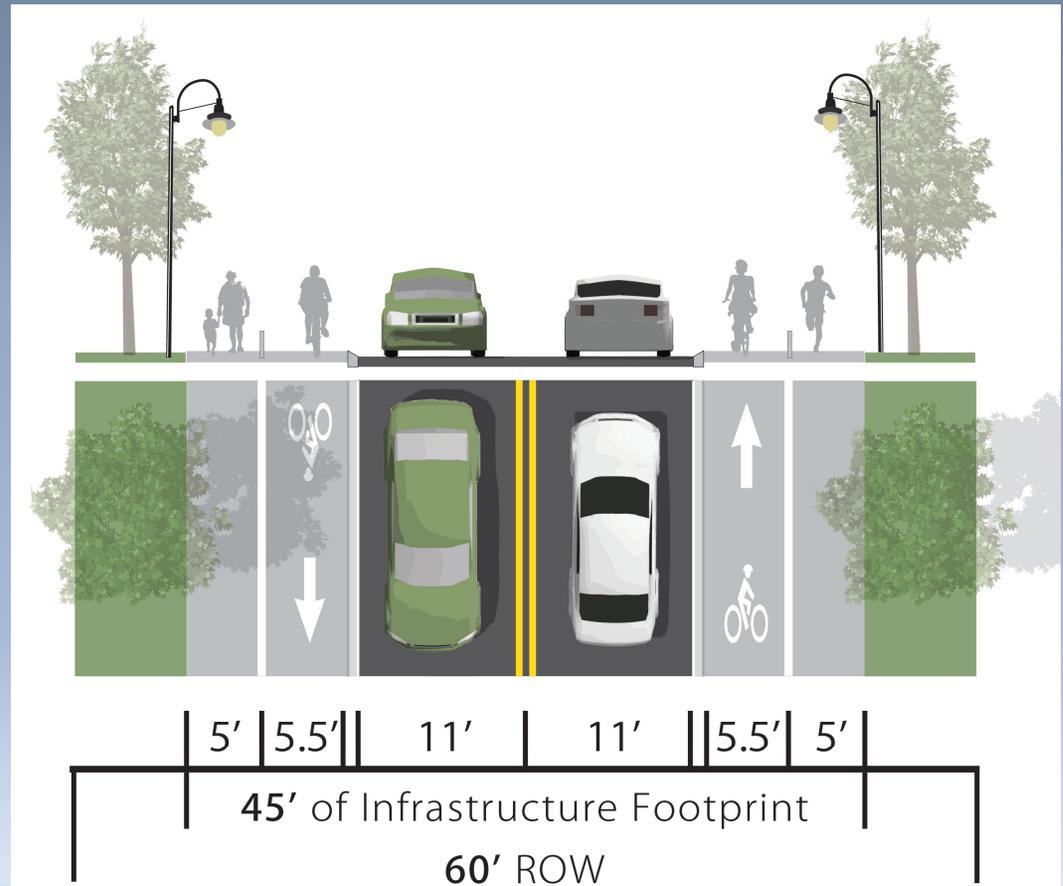
least protected

most protected



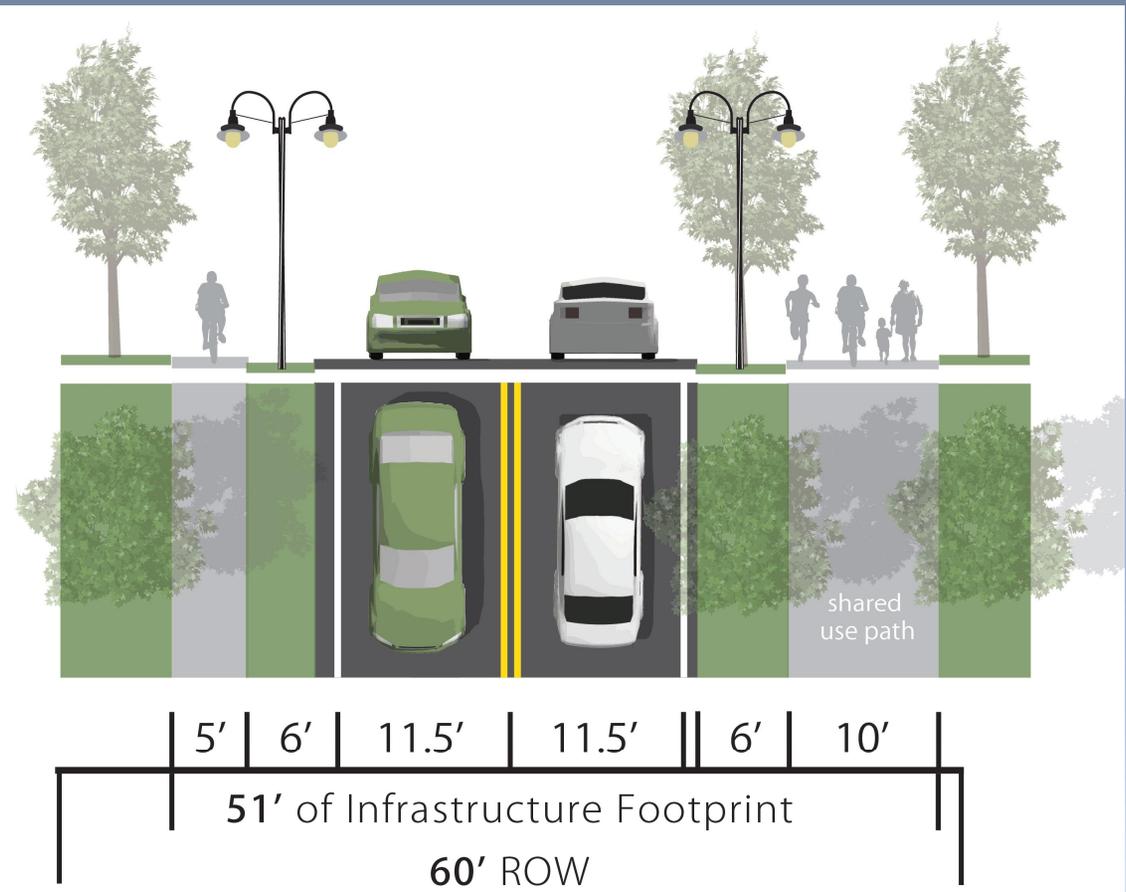
PROPOSED MAIN ST. TYPICALS

- 45' Footprint
- Lighting and landscape
- Cycle track
- Replace sidewalks



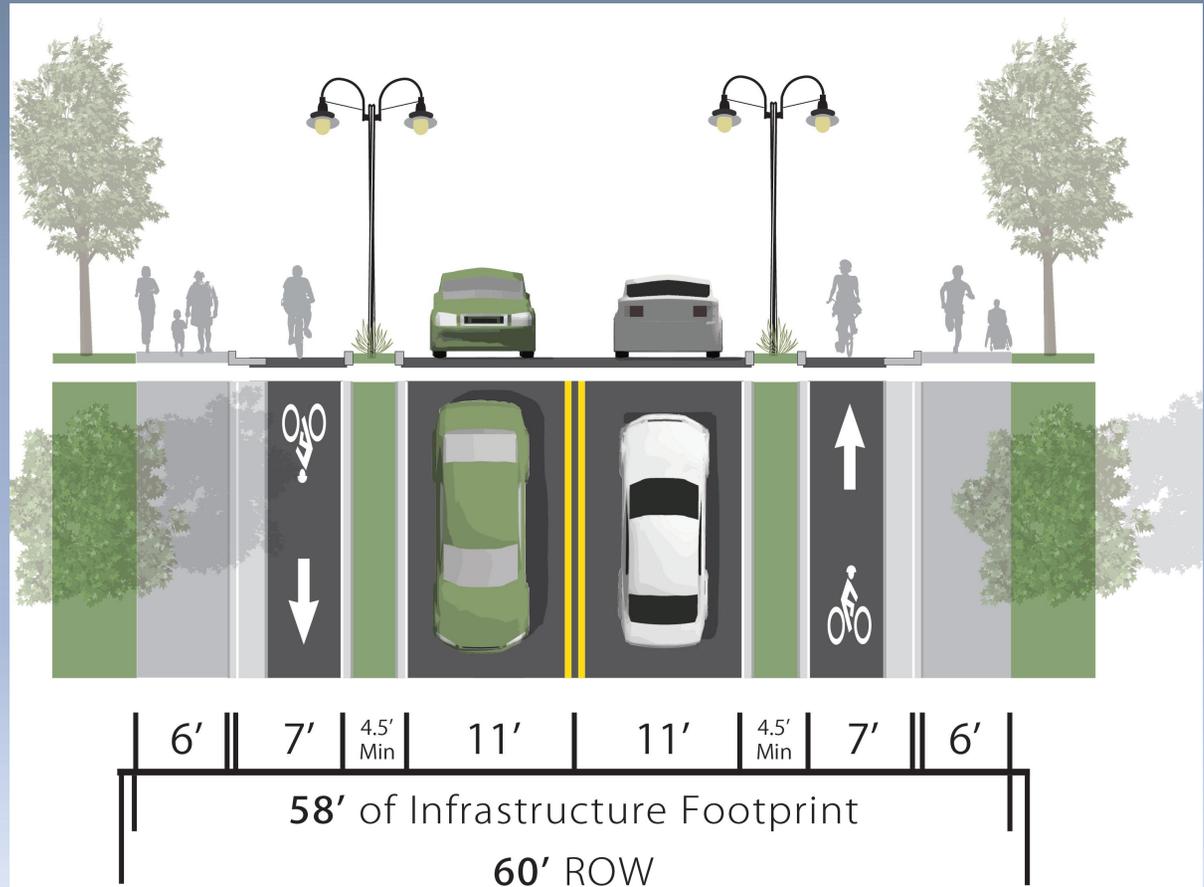
PROPOSED MAIN ST. TYPICALS

- 51' Footprint
- Lighting and landscape
- Planting strip
- Shared-use path



PROPOSED MAIN ST. TYPICALS

- 58' Footprint
- Protected bike lanes
- Lighting and landscape in bike median
- Wider sidewalk



ACCESS MANAGEMENT



ALTERNATIVE 1 CONCEPT

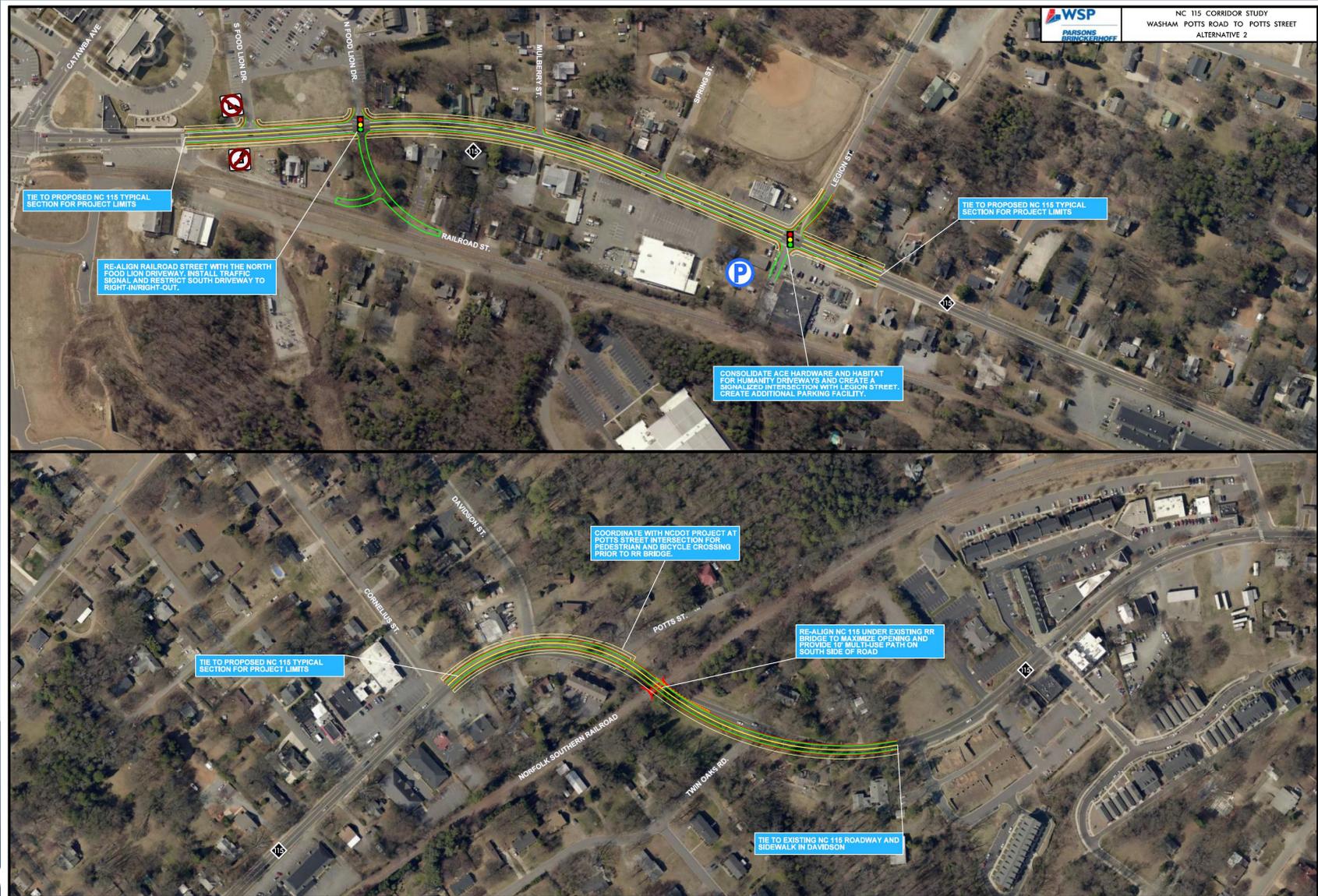
- Complete Street
 - All Users
 - Aesthetics
- Access Management
- Minimal Operational Improvements
 - Traffic Signal at Hickory Street Intersection
 - Turn Lane Extension at Catawba Ave
- Least Right-of-way Impacts



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ALTERNATIVE 2 CONCEPT



ALTERNATIVE 2 CONCEPT

- Complete Streets Principles
- Intersection Consolidation
 - Re-alignment of Railroad Street
 - Food Lion access revised
 - Ace Hardware/Habitat combined driveway at Legion Street
 - Two potential traffic signals
- Pedestrian Connection under NSRR Bridge
- Moderate Right-of-way Impacts



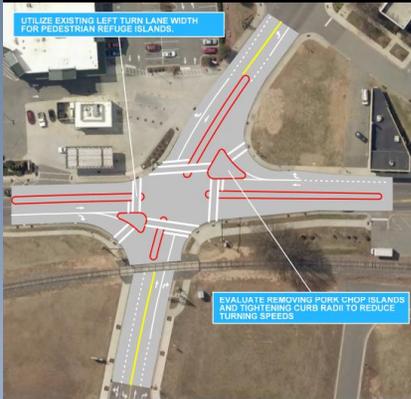
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ALTERNATIVE 3 CONCEPT



NC 115 CORRIDOR STUDY
WASHAM POTTS ROAD TO POTTS STREET
ALTERNATIVE 3



STREET EXTENSION PROJECTS AS PART OF TOWN BOND PROJECTS PROVIDE ADDITIONAL CONNECTIVITY TO DISTRIBUTE TRAFFIC.

EVALUATE REMOVING PORK CHOP ISLANDS AND TIGHTENING CURB RADIUS TO REDUCE TURNING SPEEDS.

RESTRICT LEFT TURNS AT INTERSECTION AND RE-ALLOCATE INTERSECTION WIDTH FOR IMPROVED AESTHETICS, PEDESTRIAN, AND BICYCLE FACILITIES.

RE-ALIGN RAILROAD STREET WITH THE NORTH POND LION DRIVEWAY. INSTALL TRAFFIC SIGNAL AND RESTRICT SOUTH DRIVEWAY TO RIGHT-IN/RIGHT-OUT.

STREET EXTENSION PROJECTS AS PART OF TOWN BOND PROJECTS PROVIDE ADDITIONAL CONNECTIVITY TO DISTRIBUTE TRAFFIC.

CONSOLIDATE ACE HARDWARE AND HABITAT FOR HUMANITY DRIVEWAYS AND CREATE A SIGNALIZED INTERSECTION WITH LESION STREET. CREATE ADDITIONAL PARKING FACILITY.



ALTERNATIVE 3 CONCEPT

- Complete Streets Principles
- Similar Improvements to Alternative 2
- Restricts Left Turns at NC 115 and Catawba Ave Intersection
 - Improves Intersection Operations
 - Improves Pedestrian and Bicycle Safety



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ALTERNATIVE 4 CONCEPT



ALTERNATIVE 4 CONCEPT



- Parallels NSRR
- Connects to NC 115 at Twin Oaks Road Intersection
- Increases traffic through residential area

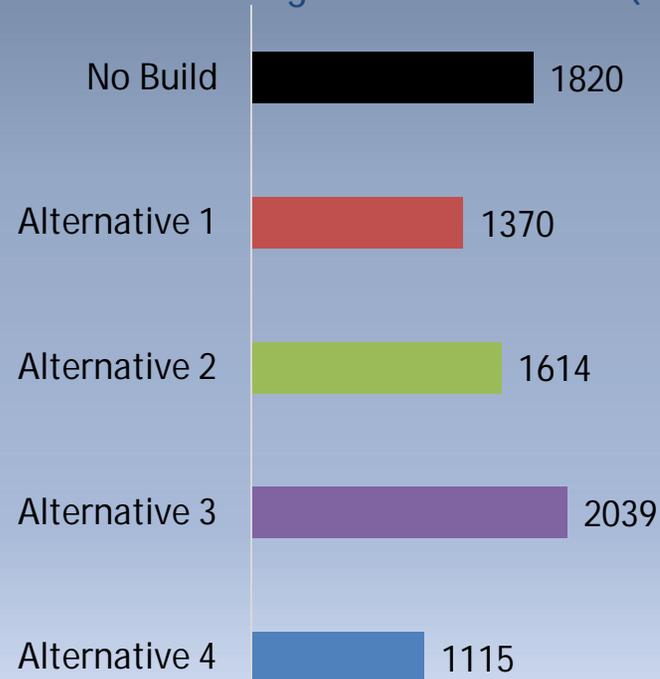
ALTERNATIVE 4 CONCEPT

- Parallels Overhead Utility Lines
- Connects to NC 115 at South Street Intersection
- Increases traffic near DES



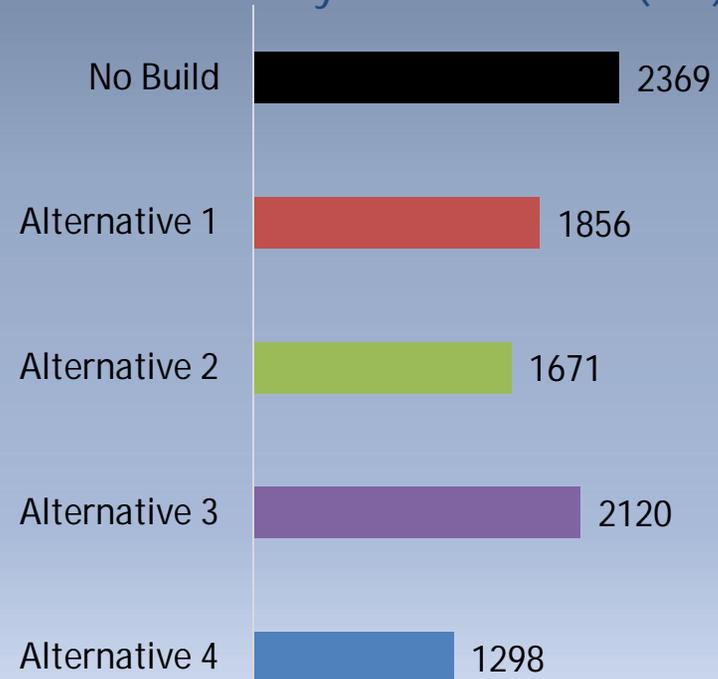
COMPARING ALTERNATIVES

Travel Time along NC 115 Corridor (sec)



Travel time is measured in seconds and shows the anticipated travel time along NC 115 from Potts Street to Washam Potts Road.

Travel Delay on Side Street (sec)

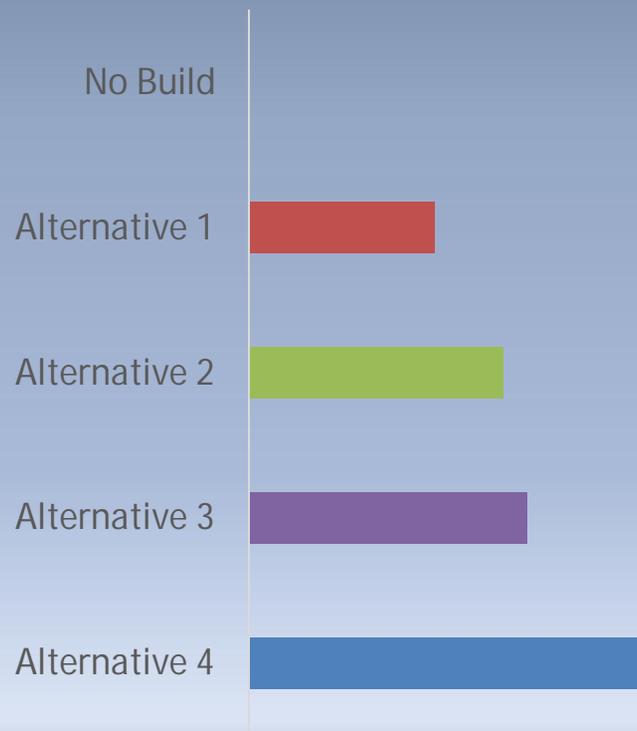


Travel time is measured in seconds and shows the anticipated cumulative delay for all of the side streets.



COMPARING ALTERNATIVES

Anticipated Cost to Construct



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NEXT STEPS

Evaluate Feedback

- Review Comments
- Identify Key Issues and Trade-offs

Refine Technical

- Incorporate Feedback
- Refine Main Street Typical Section(s)
- Develop Alternative 5

Select Preferred Alternatives

- Input from Staff
- Board Selection



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ACTIVITIES

- Build Your Own Street
- Typical Section Trade-off Activity
- Post-it Note Comments



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