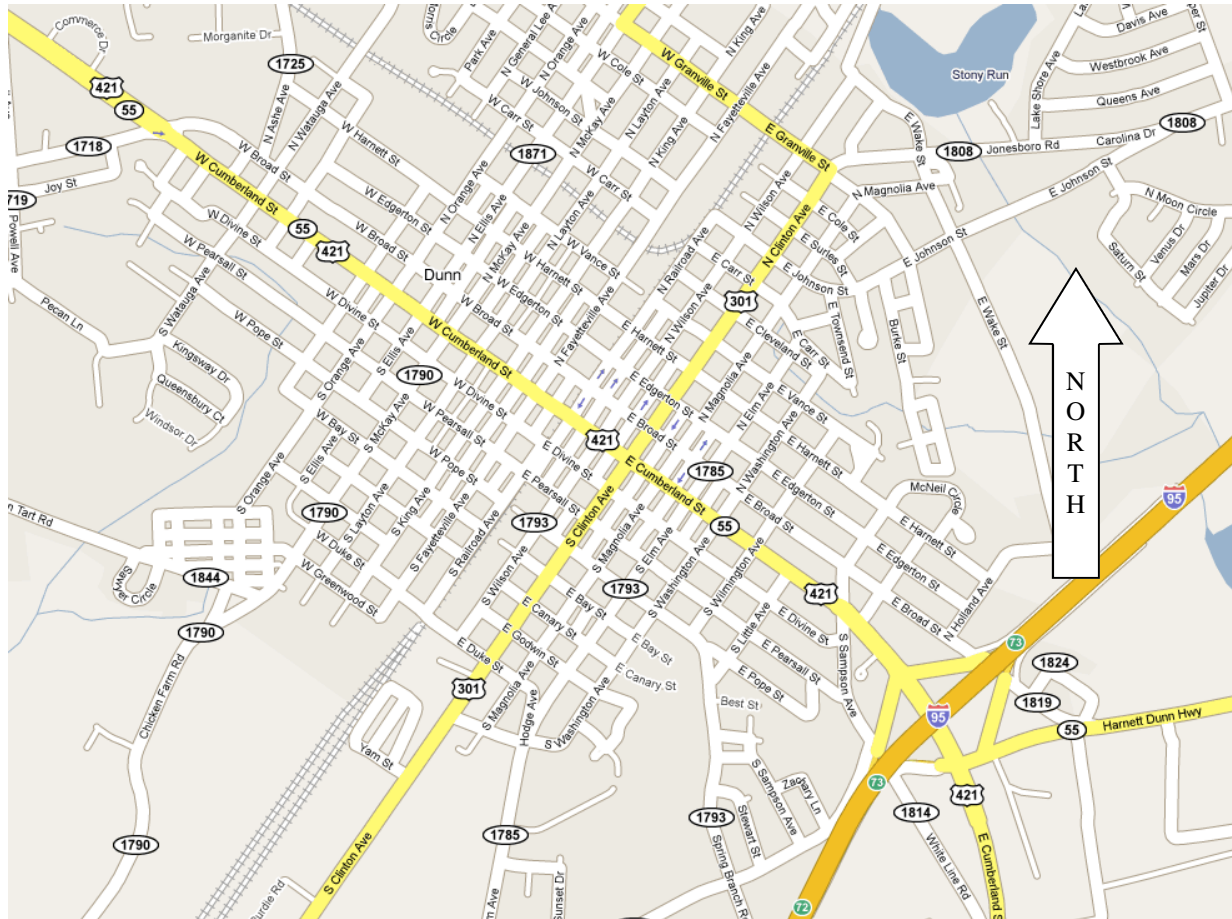


Corridor Map



North Carolina State University



US 421 Corridor Study



It's All Right Here!



Currently the section of US 421 through Dunn is often times over crowded and going to fast for the area. The study area will consist of US 421 from I 95 to Broad Street and has been broken down into four sections. The first section will be from I 95 to Elm Avenue, the second from Elm Avenue to King Avenue, the third from King Avenue to Ellis Avenue, and the fourth from Ellis Avenue to Broad Street. Multiple alternatives were discussed for each section and are described below:

Section 1:

Alternative 1: No-Build

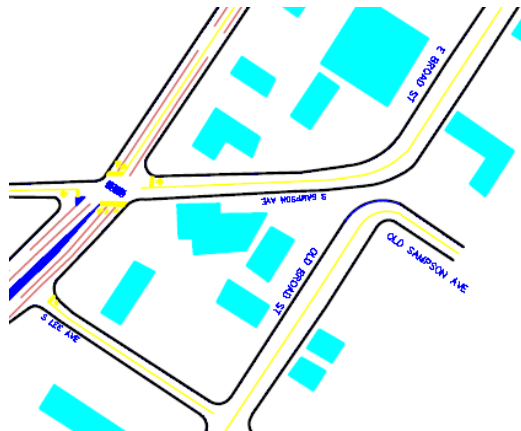
Alternative 2: Broad Street Redistribution

- Close Broad Street access to I 95 ramp and tie into Stoney Run Drive
- Close Sampson Avenue access to I 95 ramp and tie into Jackson Road
- Close intersection of Broad Street and Sampson Avenue

Alternative 3: Access Management

- Install right-outs off of Little, Wilmington, Washington, and Elm
- Install Directional left-overs from US 421 to Little, Wilmington, Washington, and Elm
- Remove all parcel driveway accesses

Alternative 4: Complete Build-Out



Section 2:

Alternative 1: No-Build

Alternative 2: Road Diet

- Reduce the typical section from a 4-lane undivided to a three-lane section with one through lane in each direction and alternating left-turn lanes for median

Alternative 3: Access Management

- Install right-outs off Magnolia and King
- Install directional left-overs from US 421 to Magnolia and King
- Install right-in / right-outs at Railroad and Lucknow
- Narrow and improve intersections at US 421 and Clinton, Wilson, and Fayetteville

Alternative 4: Complete Build-Out

Section 3:

Alternative 1: No-Build

Alternative 2: Road Diet

- Reduce the typical section from a 4-lane undivided to a three-lane section with one through lane in each direction and alternating left-turn lanes or median

Alternative 3: Access Management

- Install right-outs off King and Layton
- Install directional left-overs from US 421 to King and Layton
- Install right-in / right-outs at McKay
- Narrow and improve intersections at US 421 and Ellis

Alternative 4: Complete Build-Out

Section 4:

Alternative 1: No-Build

Alternative 2: Road Diet

- Between Ellis and Wayne reduce the typical section from a 4-lane section undivided to a three-lane section with one through lane in each direction and alternating left-turn lanes or median

Alternative 3: Access Management

- Install right-out off General Lee, N Orange Avenue, and Wayne
- Install directional left-over from US 421 to N Orange Avenue, General Lee, and Wayne
- Install right-in / right-out at S Orange Avenue
- Remove signal at Wayne
- Narrow and improve intersections at US 421 and Ellis and US 421 and Watauga

Alternative 4: Broad Street Redistribution

- Install dual lefts off Southbound US 421 to Broad Street
- Install free-flow movement from Westbound Broad Street to Northbound US 421
- Improve signalization to facilitate through movements along US 421

Alternative 5: Complete Build-Out

Recommendations:

We recommend that the city of Dunn consider using all of the alternatives presented above. Each of these alternative can be built separately and spread out over any amount of time keeping the cost and lane closures to a minimum.