

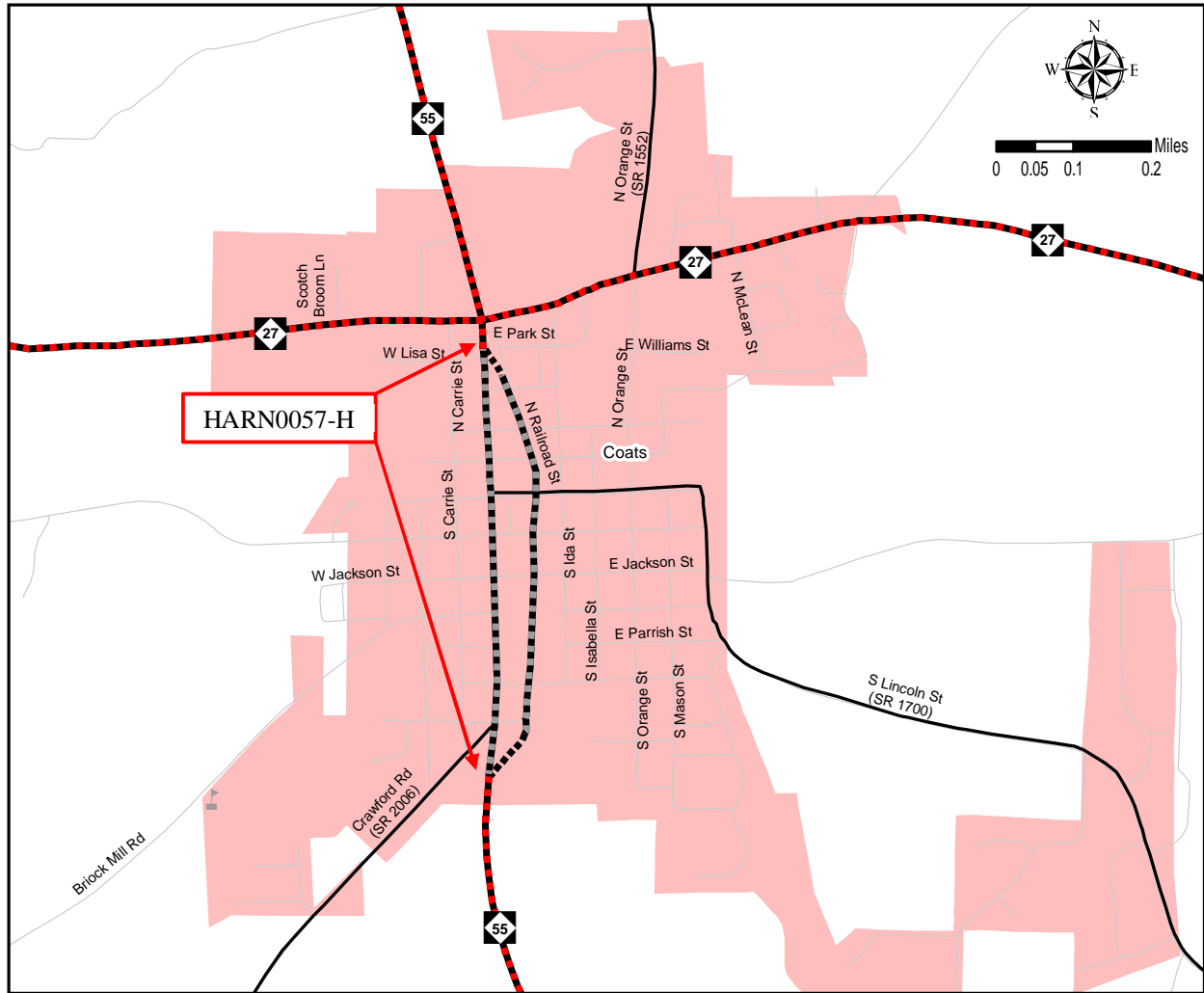
# DRAFT

## HIGHWAY

NC 55 Proposed improvements from  
Lisa St/ Park St to 0.1 mile south of  
Crawford Road (SR 2006)

Local ID: HARN0057-H (part of R-2540)

Last updated: 12/06/2016



### Identified Problem

NC 55 is projected to be near capacity by 2035 from Lisa Street/ Park Street to 0.1 mile south of Crawford Road (SR 2006). Improvements are needed to accommodate projected traffic volumes such that a minimum of Level of Service (LOS) D can be achieved.

### Justification of Need

NC 55 is a major north-south corridor through Eastern Harnett County, connecting Dunn, Erwin, Coats and Angier with US 401 in Wake County to the north and Interstate 95 to the south. The connection with these major statewide routes makes NC 55 an important regional connector for Harnett County. NC 55 is part of the regional tier of the

NC Multimodal Investment Network (NCMIN). Regional tier facilities are similar to statewide facilities in that they serve long distance trips and connect regional centers but they would also provide more accessibility and local access.

NC 55 from Lisa Street/ Park Street to 0.1 mile south of Crawford Road (SR 2006) is currently a three lane facility with 12 foot lanes and center turn lane. By 2035 the facility is projected to be near capacity based on providing a LOS D. The Annual Average Daily Traffic (AADT) on NC 55 is projected to increase in range from 7,500 to 8,500 vehicles per day (vpd) in 2014 to a range of 10,400 to 11,000 vpd in 2035, compared to a LOS D capacity of 12,700 vpd.

### **Community Vision and Problem History**

NC 55 connects downtown Coats with the towns in eastern Harnett County and Wake County to the north. As the main road passing through the town of Coats, NC 55 has a significant economic value. Improving the capacity of this route will result in a better LOS for the mixed local and regional traffic stopping in and passing through downtown Coats.

The 2011 Harnett County CTP identified NC 55 (R-2540) throughout Harnett County as a boulevard that needs improvement. 2011 Harnett County CTP was not adopted by town of Coats. In 2016 town of Coats requested NCDOT and Mid-Carolina RPO to analyze the NC 55 one-way pair scenario.

### **CTP Project Proposal**

#### **Project Description and Overview**

The 2011 Harnett County CTP recommendation R-2540 was to convert the existing three-lane major thoroughfare into a four-lane divided boulevard facility.

The proposed amendment to the 2011 Harnett County CTP recommendation R-2540 is to convert NC 55 to a one way pair with Railroad Street. The project proposal (HARN0057-H) is to Improve NC 55 and Railroad Street to two-lane, one-way facilities from Crawford Road (SR 2006) to Lisa Street/ East Park Street.

NC 55 is an existing other major thoroughfare through Coats. The project proposal is to create a “one-way pair” through downtown Coats with the objective of improving mobility on NC-55 while maintaining access to downtown businesses. Sidewalks and a multi-use path are also recommended along this facility.

A crash assessment performed during the development of the CTP amendment identified 10 to 19 crashes between January 1, 2011 and December 31, 2015 at the intersection of NC 27 and NC 55. The proposed improvements may reduce the number of crashes at this location.

### **Relationship to Land Use Plans**

This section of NC 55 provides access to the heart of the town of Coats. The area surrounding NC 55 includes many different zoning classes such as Residential, Neighborhood Commercial, Central Business and even a small Industrial zone. This corresponds with many access points such as driveways and cross-streets throughout the corridor.

The Harnett County Land Use Plan (2008) classifies this portion of the NC 55 corridor as a Municipal Growth Area.

### **Linkages to Other Plans and Proposed Project History**

The 2011 Harnett County CTP recommendation R-2540 was to convert NC 55, the existing three-lane major thoroughfare, into a four-lane divided boulevard facility. 2011 Harnett County CTP was not adopted by town of Coats. In 2016 town of Coats requested NCDOT and Mid-Carolina RPO to analyze the NC 55 one-way pair scenario.

### **Natural & Human Environmental Context**

Based on a planning level environmental assessment using available GIS data, the proposed project borders a watershed area.

### **Multi-modal Considerations**

There are recommendations for a sidewalk and a multi-use path along this section of NC 55. There is also a proposed fixed route transit service along NC 55 through the town of Coats connecting Angier, Dunn, Erwin, Lillington, Coats, and Campbell University.

### **Public/ Stakeholder Involvement**

Improvements to NC 55 were identified in a stakeholder survey of county and town officials. Officials from the town of Coats worked with NCDOT and Mid-Carolina RPO in developing the “one-way pair” recommendation.

### **US 401 R-2609:**

TIP project R-2609 identifies the need for US 401 to provide additional capacity and mobility improvements throughout Harnett County. Capital Area Metropolitan Planning Area (CAMPO) 2040 MTP includes the proposed alignment for US 401 shown on the Highway Map (Figure 1).

This project is currently in the planning and design phase. Other alternatives are currently being studied by the Project Development and Environmental Analysis unit (PDEA). For additional information about this project, including purpose and need, contact the NCDOT PDEA.

### **Angier Bypass (NC 55), Local ID: HARN0058-H**

The Capital Area Metropolitan Planning Organization (CAMPO) Metropolitan Transportation Plan (MTP) October 2015 Amendment recommends a bypass around the town of Angier between the existing alignment of US 401 and NC 55 (CAMPO MTP Project ID A632a, A632b and A632c). Officials from the town of Angier met with CAMPO in September 2016 and proposed to update the alignment of the southern portion of the loop. The updated project proposal follows Tippet Road (SR 1507) before crossing NC 55 and Black River and meeting NC 210 to the east of Angier. There is a recommendation for a bicycle facility along proposed project.

### **Brightwater Drive (SR 2288) Extension, Local ID: HARN0070-H**

The Central Harnett Hospital is located on Brightwater Drive (SR 2288) northwest quadrant of US 401 (West Cornelius Harnett Boulevard) and NC 210 (North Main Street). Currently, the hospital can be accessed from US 401 (West Cornelius Harnett Boulevard), there is no direct access to the hospital from NC 210 (North Main Street).

From Angier, the hospital can be accessed by traveling south on NC 210 (North Main Street) to US 401 (West Cornelius Harnett Boulevard) intersection and then turn on Brightwater Drive (SR 2288). Brightwater Drive Extension will provide direct access to the hospital from NC 210 (North Main Street) as well from Northeast and Northwest of Harnett County.

The Central Harnett Hospital provides care to the central and western parts of Harnett County as well as the Fuquay-Varina community. Hospital facilities and services include 50 private inpatient nursing rooms for Medical/Surgical/Telemetry, 24-hour Emergency Department with ER Express, three surgery suites and a minor procedure room, imaging, including CT, MRI, ultrasound, mammography, cardiovascular diagnostics.

Central Harnett Hospital opened its doors on Friday, January 18th, 2013. It's the single largest capital investment in Harnett County's History. In 2014 Central Harnett Hospital had more than 23,000 emergency visits.

The project proposal (HARN0070-H) is to extend Brightwater Drive (SR 2288) as a 4-lane boulevard with 12 foot lanes on new location from Crested Iris Drive (SR 2290) to NC 210, South of Old Coats Road (SR 1516). There is a recommendation for a sidewalk along the proposed roadway.

### **Capital Area Metropolitan Planning Organization (CAMPO) Projects:**

CAMPO is the regional planning body for the Raleigh Metropolitan Area and includes northern Harnett County and the town of Angier. This amendment includes the projects proposed in the 2012 Southwest Area Study<sup>1</sup> (SWAS) and 2040 MTP<sup>2</sup> update. For more information about these projects please contact CAMPO.

### **Fayetteville Area Metropolitan Planning Organization (FAMPO) Projects:**

FAMPO is the regional planning body for the Fayetteville Metropolitan Area and includes southern Harnett County. This amendment includes the projects proposed in 2040 MTP<sup>3</sup>. For more information about these projects please contact FAMPO.

### **Highland School Road, Local ID: HARN0059H**

Access to Highland Elementary School and Highland Middle School is currently provided by Buffalo Lake Road (SR 1115). Fayetteville Area Metropolitan Planning Organization (FAMPO) submitted Highland School Road project under division needs category for SPOT 4.0.

The project proposal is to construct a two-lane minor thoroughfare with 12 foot lanes from Buffalo Lake Road (SR 1115) to Tingen Road to the south of the school campus. This new facility will provide students and parents alternate access to the school campus. There is a recommendation for a sidewalk along the entire length of the proposed project.

The proposed project is near national wetland areas and is zoned for compact mixed use in the Harnett County Land Use Plan (2008).

### **Minor Widening Improvements**

The following routes were identified as candidates for upgrading to NCDOT design standards. All facilities listed are recommended to have a minimum of 12 foot lanes with paved shoulders in order to improve mobility, safety and/or to accommodate bicycles. Additionally, some facilities may require improvements to the vertical and/or horizontal alignment. Implementation of the proposed projects should be coordinated through NCDOT's Highway Division 6 office. (Refer Appendix A for contact information).

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<sup>1</sup> <http://www.southwestareastudy.com/>

<sup>2</sup> <http://www.campo-nc.us/adopted-2040-mtp>

<sup>3</sup> <http://fampo.org/publications.html>

- **HARN0060-H:** Dr. McKoy Road from Parkwood Circle to Caudell Lane
- **HARN0061-H:** Caudell Lane from Dr. McKoy Road to Burt Street
- **HARN0062-H:** Burt Street from Caudell Lane to Main Street
- **HARN0063-H:** Judge Taylor Road from Leslie Campbell Avenue to TT Lanier Street
- **HARN0064-H:** Harmon Road from US-421 to Leslie Campbell Avenue
- **HARN0065-H:** Hatcher Street from Wade Stewart Circle to US-421
- **HARN0066-H:** Wade Stewart Circle from Wade Stewart Road to Hatcher Street
- **HARN0067-H:** Wade Stewart Road from Wade Stewart Circle to US-421
- **HARN0068-H:** Pine Cone Road from Harmon Road to Marshbanks Street
- **HARN0069-H:** Marshbanks Street from US-421 to Pine Cone Road

## **PUBLIC TRANSPORTATION AND RAIL**

During the Harnett County CTP amendment process, the stakeholders and Harnett Area Rural Transit System (HARTS), proposed a fixed deviated route transportation service connecting Angier, Dunn, Erwin, Lillington, Coats and Campbell University (Buies Creek). Potential locations for park-and-ride lots were identified in Angier, Dunn, Erwin, Lillington, Coats and Campbell University (Buies Creek). Final locations would be subject to agreements with towns, property owners, etc.

These facilities are shown on the Public Transportation and Rail Map, Sheet 3 of Figure 1.

- **HARN0002-T: Fixed Deviated Route** (Angier- Dunn- Erwin- Lillington- Coats - Campbell University (Buies Creek))
- **Park-and-Ride locations:**
  - **HARN0003-T:** Downtown Angier
  - **HARN0004-T:** Downtown Dunn
  - **HARN0005-T:** Downtown Erwin
  - **HARN0006-T:** Downtown Lillington
  - **HARN0007-T:** Downtown Coats
  - **HARN0008-T:** Campbell University Main Campus and Nursing school

## **Multi-use**

Addendums to the 2011 Harnett County CTP multi-use path recommendations include the alignment of the East Coast Greenway, a multi-use path connecting Maine to

Florida, 2012 CAMPO South West Area Study (SWAS), 2040 CAMPO Metropolitan Transportation Plan (MTP) and additional local recommendations. Only those recommendations not included in another plan are listed below, please refer to the above plan documentation for more information regarding specific projects.

- **NC 27, Local ID: HARN0013-M** from Campbell University along NC 27 through the town of Coats to the Johnston County line

### ***Lillington***

- **NC 210, Local ID: HARN0014-M** from the Cape Fear River Multi-use Trail to US 401/NC 27

### ***Coats***

- **NC 55, Local ID: HARN0015-M** from Crawford Road to NC 27 through the town of Coats
- **Lincoln Street, Local ID: HARN0016-M** from Main Street to Park Lane
- **Main Street, Local ID: HARN0017-M** from McKinley Street to Lincoln Street
- **Park Lane, Local ID: HARN0018-M** from municipal park to Lincoln Street

### **Bicycle**

The bicycle facility improvements from the 2040 CAMPO MTP, 2012 CAMPO Southwest Area Study (SWAS), 2040 FAMPO MTP, 2014 City of Dunn Bike Plan and facilities recommended by local stakeholders are identified in this amendment to the 2011 Harnett CTP.

Additional improvements not included in the above referenced plans are listed below. Please refer to the above plans for more information about recommendations for a specific project within particular area.

### ***Campbell University***

- **Burt Street, Local ID: HARN0017-B** from Caudell Lane to Main Street
- **Caudell Lane, Local ID: HARN0018-B** from Dr. McKoy Road to Burt Street
- **Dr McKoy Road, Local ID: HARN0019-B** from Parkwood Circle to Caudell Lane
- **Harmon Road, Local ID: HARN0020-B** from Pine Cone Road to US-421
- **Main Street, Local ID: HARN0021-B** from Leslie Campbell Avenue to Burt Street
- **Marshbanks Street, Local ID: HARN0022-B** from US-421 to Pine Cone Road
- **Pine Cone Road, Local ID: HARN0023-B** from Harmon Road to Marshbanks Street
- **T. T. Lanier Street, Local ID: HARN0024-B** from Leslie Campbell Avenue to Judge Taylor Road

## **Pedestrian**

The following are new sidewalk projects to be constructed or improved on both sides of the listed roadway recommended by local municipalities within Harnett County.

- **Brightwater Drive (SR 2288) Extension, Local ID: HARN0070-H:** from Crested Iris Drive (SR 2290) to NC 210 (north Main Street)
- **Highland School Access Extension, Local ID: HARN0059-H:** from Buffalo Lake Road (SR 1115) to Tingen Road
- **Mathew Road (SR 1436), Local ID: HARN0075-P:** from US 401 (West Cornelius Harnett Boulevard) to Crested Iris Drive (SR 2290)

### ***Erwin***

- **18<sup>th</sup> Street, Local ID: HARN0062-P:** from F Street to Cape Fear River Trail Park
- **F Street, Local ID: HARN0063-P:** from 13<sup>th</sup> Street to 18<sup>th</sup> Street

### ***Dunn***

- **US 421, Local ID: HARN0064-P:** from General Lee Avenue to Sampson Avenue

### ***Coats***

- **Hamer Street, Local ID: HARN0065-P:** from Williamstown Lane to NC 55 (McKinley Street)
- **Main Street, Local ID: HARN0066-P:** from Patterson Street to NC 55 (McKinley Street)
- **Patterson Street, Local ID: HARN0067-P:** from Hamer Street to Main Street

### ***Campbell***

- **Burt Street, Local ID: HARN0068-P:** from Caudell Lane to Main Street
- **Caudell Lane, Local ID: HARN0069-P:** from Dr. McKoy Road to Burt Street
- **Dr. McKoy Road, Local ID: HARN0070-P:** from Parkwood Circle to Caudell Lane
- **Harmon Road, Local ID: HARN0071-P:** from US 421 to Leslie Campbell Avenue
- **Marshbanks Street, Local ID: HARN0072-P:** from Pine Cone Road to Leslie Campbell Avenue
- **Pine Cone Road, Local ID: HARN0073-P:** from Harmon Road to Marshbanks Street

### ***Lillington***

- **Front Street, Local ID: HARN0074-P:** from Lakeside Drive to 9<sup>th</sup> Street