# Performance Measures Technical Memorandum

North Carolina Department of Transportation Strategic Transportation Corridor Vision Plans

Corridor P: I-40/Future I-42/U.S. 70

Wake County to Port of Morehead City

Updated: May 19, 2022

May 2022



Kimley » Horn



# **Table of Contents**

| 1.   | Intro   | duction   | 2      |
|------|---------|---|--------|
| 2.   | Goal    | ls and Objectives   | 2      |
|      | 2.      | .1. STC Goals and Objectives  | 2      |
|      | 2.      | .2. Corridor Segments   | 3      |
|      | 2.      | .3. Corridor Goals and Objectives   | 5      |
| 3.   | Perfo   | ormance Measures  | 13     |
|      | 3.      | .1. National Performance Measures   | 13     |
|      | 3.      | .2. Corridor Performance Measures   | 15     |
| App  | pendi   | x A   | 18     |
| A.1  | . NO    | CDOT Facility Type  | A-1    |
| A.2  | . Hi    | ighway Access Control   | A-2    |
| App  |         | x B   |        |
| B.1  | . Go    | oal Areas   | B-1    |
|      |         |   |        |
| Та   | bles    |   |        |
| Tab  | le 1.   | STC Goals and Objectives  | 3      |
| Tab  | le 2.   | Corridor P: I-40/Future I-42/U.S. 70 Segments   | 4      |
| Tab  | le 3.   | Count of Goal Areas Established in the I-40/Future I-42/U.S. 70 Planning Area             | 6      |
| Tab  | le 4.   | Goals, Objectives, and Strategies Established in the I-40/Future I-42/U.S. 70 Planning Al | rea 7  |
| Tab  | le 5.   | Federal Highway Administration and State Performance Measures                             | 13     |
| Tab  | le 6.   | Federal Transit Administration and State Performance Measures                             |        |
| Tab  | ole 7.  | National and State Performance Measures Established in the I-40/Future I-42/U.S. 70 PI    | _      |
| Tab  | le 8.   |   | g Area |
| Tab  | ole A-1 | Highway Functional Class Definitions  | A-1    |
| Tab  | le A-2  | 2. Control of Access Definitions  | A-2    |
| Tab  | le B-1  | 1. Goal Area Definitions  | B-1    |
|      |         |   |        |
| Ei-  | 11120   |   |        |
|      | gure    |   | _      |
| Figi | ure 1.  | Corridor P: I-40/Future I-42/U.S. 70 Segments   | 4      |



# 1. Introduction

In 2015, the North Carolina Department of Transportation (NCDOT) identified a network of key multi-modal transportation corridors called Strategic Transportation Corridors (STC) to support smart planning, help set long-term investment decisions, and ensure that North Carolina's economic prosperity goals are achieved. The STCs are intended to promote transportation system connectivity, provide high levels of mobility, and improve access to important state and regional activity centers. A key element in the advancement of the STCs is the development of corridor master plan visions.

The purpose of the master plan visions is to:

- identify high-level corridor mobility visions and associated improvement strategies,
- guide improvements and development in a manner that defines a long-term vision and performance level for the corridors, and
- help protect the corridor's key functions as defined in the corridor profiles.

NCDOT has initiated the development of a master plan for Corridor P (I-40/Future I-42/U.S. 70), which follows US 70E from I-440 in Wake County to the Port of Morehead City. This corridor begins on the south eastern edge of Raleigh and runs through Smithfield, Goldsboro, Kinston, New Bern, and Havelock, ending at the Port of Morehead City.

To assist in developing a master plan vision for I-40/Future I-42/U.S. 70, goals and performance measures were collected from Comprehensive Transportation Plans (CTP) and Metropolitan Transportation Plans (MTP) and catalogued in this memorandum. Accurate data will serve as the foundation for master plan vision development. The information available to define the corridors and their needs depends on the availability of complete, current, and reliable data.

### 2. Goals and Objectives

#### 2.1. STC Goals and Objectives

At the outset of the STC program, NCDOT established overarching goals and objectives, as identified in **Table 1**. These goals were developed to guide the master plan visions in a cohesive direction across the corridors. This memorandum compiles the transportation goals of I-40/Future I-42/U.S. 70 to compare them with statewide and national goals, and incorporate them into the vision of the STC program.



Table 1. STC Goals and Objectives

| Goals   | Objectives  |
|---|---|
| System Connectivity: Provide essential connections to national transportation networks critical to interstate commerce and national defense.  | Provide a continuous, consistent network of reliable, higher speed interstate, defense, and major freight routes. For system connectivity, corridors should provide functional classification and facility type consistent with those attributes; corridors should have high capacity consistent with speed and reliability objectives. |
| <b>Mobility:</b> Facilitate high volume interregional movements of people and goods across the state.   | Serve major inter-regional travel corridors with high levels of service, moving higher volumes of passenger or freight traffic, and provide multiple transportation modes or routes for the opportunity of choice and flexibility in travel or shipping in the corridor.  |
| Economic Prosperity: Support efficiency of transport logistics and economic development throughout the state for economic regions and clusters of existing and emerging activity centers. | Provide high-quality access to defined intrastate activity center clusters and to nearby critical activity centers in surrounding states and ensure access to at least one strategic corridor for each multi-county region of Tier 1 Economic Development counties.*  |

<sup>\*</sup>The North Carolina Department of Commerce annually ranks the state's counties based on economic well-being and assigns each a Tier designation. The 40 most distressed counties are designated as Tier 1, the next 40 as Tier 2 and the 20 least distressed as Tier 3.

#### 2.2. Corridor Segments

I-40/Future I-42/U.S. 70 is 150 miles in length and spans eastern North Carolina from Raleigh to the Port of Morehead City. The I-40 portion of I-40/Future I-42/U.S. 70 is included in the National Highway System's (NHS) Eisenhower Interstate System. The remainder of the corridor is classified as part of the Non-Interstate Strategic Highway Network (STRAHNET) and the Strategic Rail Corridor Network (STRACNET). Served by both highway and rail, I-40/Future I-42/U.S. 70 is the principal freight route from the Port of Morehead City to the state's capital. It is also a vital trucking route for intermediate cities along the corridor.

From a high-level perspective, I-40/Future I-42/U.S. 70 can be broken into three segments (see **Figure 1**): 1) I-40/I-440 Junction to US 70/US 70 Business Junction; 2) US 70/US 70 Business Junction to US 17/US 70 Junction; and 3) US 17/US 70 Junction to the Port of Morehead City. The first segment is located on the outskirts of the Raleigh metropolitan area. Segment 2 is in predominately rural areas with some small urban centers. The third segment begins just south of New Bern, where it becomes the primary travel route to the eastern coast of North Carolina. While I-40/Future I-42/U.S. 70 is mostly classified as a freeway, Segment 3 converts to a boulevard in Morehead City.

The I-40/Future I-42/U.S. 70 segments are shown in **Table 2**. The segments shown in this table were identified during the corridor inspection and will be further refined through the STC planning process. Segment definitions and specifications were drawn from the NCDOT Facility Types & Control of Access Definitions (2005), shown in Appendix A: Facility Type and Control of Access.



Figure 1. Corridor P: I-40/Future I-42/U.S. 70 Segments

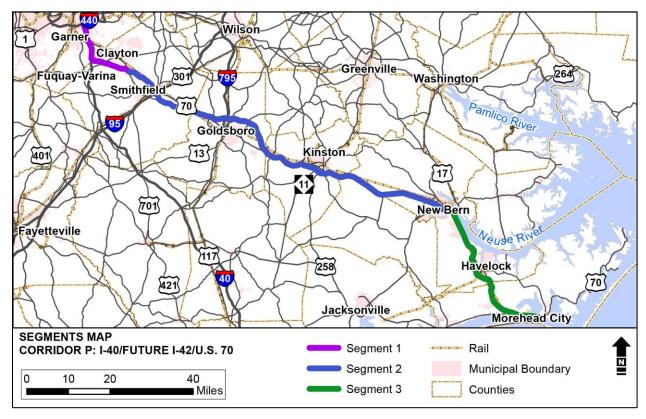


Table 2. Corridor P: I-40/Future I-42/U.S. 70 Segments

| Segment No. | Segment  | Segment<br>Lengths | Existing Facility Type                        | Control of Access | Sidewalks/Trails   |
|-------------|--|--------------------|---|-------------------|--|
| 1           | I-40/I-440 Junction<br>to U.S. 70/U.S. 70<br>Business Junction         | 17.7 miles         | Freeway                                       | Full              | No   |
| 2           | U.S. 70/U.S. 70<br>Business Junction<br>to U.S. 17/U.S. 70<br>Junction | 93.5 miles         | Boulevard/ Freeway<br>Freeway (unconstructed) | Partial to Full   | No   |
| 3           | U.S. 17/U.S. 70<br>Junction to the Port<br>of Morehead City            | 36.0 miles         | Boulevard/ Freeway<br>Freeway (unconstructed) | Partial           | Yes, sidewalks<br>present in Havelock<br>and Morehead City |



#### 2.3. Corridor Goals and Objectives

I-40/Future I-42/U.S. 70 traverses Wake, Johnston, Wayne, Lenoir, Jones, Craven, and Carteret counties; Highway Divisions 2, 4, and 5; and the Capital Area Metropolitan Planning Organization (MPO), Goldsboro Urban Area MPO, New Bern Area MPO, Down East Rural Planning Organization (RPO), Eastern Carolina RPO, and Upper Coastal Plain RPO.

I-40/Future I-42/U.S. 70 is critical to eastern North Carolina prosperity, linking major economic activity centers of the Research Triangle region to principal eastern North Carolina activity centers in Kinston, Goldsboro, New Bern, and Morehead City. The corridor provides a direct route for tourists traveling to North Carolina beaches and this tourism traffic depends on reliable, uninterrupted highway and rail service along the entire length of the corridor. The principal mobility expectation of the corridor is to provide safe, reliable freight service.

To better understand priorities in the I-40/Future I-42/U.S. 70 planning area, goals were gathered from Comprehensive Transportation Plans (CTP), Metropolitan Transportation Plans (MTP), and one MPO website that include I-40/Future I-42/U.S. 70. The project team targeted any CTP or MTP that had been collected within 10 years of March 2020 that included goals and performance measures, including the following (plans with asterisks (\*) did not include goals and plans with crosses (†) did not include performance measures):

- 2011 Kinston CTP\*†
- 2014 Carteret County CTP<sup>†</sup>
- 2014 Johnston County CTP<sup>†</sup>
- 2016 Jones County CTP<sup>†</sup>
- 2018 Lenoir County CTP<sup>†</sup>
- 2018 Research Triangle Region's (composed of the Capital Area MPO and Durham-Chapel Hill-Carrboro MPO) MTP
- 2019 Goldsboro MPO MTP
- 2021 New Bern Area MPO MTP
- Capital Area MPO website\*



The goals found in these plans are categorized into 12 Goal Areas found at the national, state, and county/MPO levels. The national goal areas, set by the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA), are defined in **Tables 5 and 6**, respectively. The state goal areas, determined by the NCDOT, match the national goal areas. The county/MPO goal areas were created by organizing plan goals that did not fit in a national goal area by similar topics. **Table 3** displays the number of goals that are categorized into a given goal area per plan and **Table 4** displays the goals per plan with their corresponding objectives or strategies and goal area(s).

Table 3. Count of Goal Areas Established in the I-40/Future I-42/U.S. 70 Planning Area

|                                |                      |                              |  |                          | C      | oal /              | Area*                           | *                               |          |             |          |                                   |
|--------------------------------|----------------------|------------------------------|--|--------------------------|--------|--------------------|---------------------------------|---------------------------------|----------|-------------|----------|-----------------------------------|
|                                |                      |                              | Natio                                  | onal/S                   | State  |                    |                                 |                                 | Cou      | nty/N       | /IPO     |                                   |
| Plan*                          | Congestion Reduction | Environmental Sustainability | Freight Movement and Economic Vitality | Infrastructure Condition | Safety | System Reliability | Reduced Project Delivery Delays | Cohesive and Strategic Planning | Mobility | Multi-Modal | Security | Socioeconomic and Quality of Life |
| Research Triangle Region's MTP | 1                    | 1                            | 1                                      | 1                        | 1      | 1                  | 1                               |                                 |          | 3           |          | 3                                 |
| Johnston County CTP            | 1                    | 1                            |  | 1                        | 1      |                    | 4                               | 2                               |          | 1           |          |                                   |
| Goldsboro Urban Area MPO MTP   |                      | 1                            | 1                                      | 1                        | 1      | 1                  |                                 |                                 | 1        | 1           | 1        |                                   |
| Lenoir County CTP              | 1                    | 1                            | 1                                      |                          | 1      |                    |                                 |                                 | 2        | 1           |          | 1                                 |
| Jones County CTP               | 1                    | 1                            | 1                                      |                          |        |                    | 4                               |                                 | 2        | 1           |          |                                   |
| New Bern Area MPO MTP          |                      |                              | 2                                      | 1                        | 1      | 2                  |                                 | 1                               | 2        | 3           | 1        | 1                                 |
| Carteret County CTP            | 2                    | 1                            | 2                                      |                          | 2      |                    | 2                               | 2                               |          | 3           | 1        | 1                                 |

<sup>\*</sup>The Kinston CTP is not included because it does not identify goals

<sup>\*\*</sup>The numbers indicate the number of goals that fell within the goal area from the identified plan



Table 4. Goals, Objectives, and Strategies Established in the I-40/Future I-42/U.S. 70 Planning Area

|                                  | Goal Area***         |                              |                                |                         |         |             |                                 |                                 |          |             |          |                                   |  |   |
|----------------------------------|----------------------|------------------------------|--------------------------------|-------------------------|---------|-------------|---------------------------------|---------------------------------|----------|-------------|----------|-----------------------------------|--|---|
|                                  |                      |                              | Natio                          | onal/                   | State   | )           |                                 |                                 | Cou      | ınty/l      | MPO      |                                   |  |   |
|                                  | Congestion Reduction | Environmental Sustainability | Movement and Economic Vitality | nfrastructure Condition |         | Reliability | Reduced Project Delivery Delays | Cohesive and Strategic Planning |          | Multi-Modal | Security | Socioeconomic and Quality of Life |  |   |
| Plan*                            | ouc:                 | invir                        | Freight                        | nfra                    | Safety  | System      | edu                             | ohe                             | Mobility | Aulti       | ecu      | ocic                              | Goal   | Objectives and Strategies**   |
| riaii                            | X                    | Ш                            | ш                              |                         | S       | X           | ~                               | 0                               | 2        | 2           | S        | S                                 | Manage congestion and system reliability                         | Allow people and goods to move with minimal congestion and time delay, and with greater predictability  Promote Travel Demand Management (TDM), such as carpooling, vanpooling and parkand-ride |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          |             |          |                                   |  | Enhance Intelligent Transportation Systems (ITS), such as ramp metering, dynamic signal phasing and vehicle detection systems   |
|                                  |                      | Х                            |                                |                         |         |             |                                 |                                 |          |             |          |                                   | Protect the environment and address climate change objectives    | Reduce mobile source emissions, greenhouse gas emissions and energy consumption   |
|                                  |                      | , ,                          |                                |                         |         |             |                                 |                                 |          |             |          |                                   | - recording entries and address entrained entainings expectation | Minimize negative impacts on the natural and cultural environments  |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          |             |          |                                   |  | Improve freight movement  |
|                                  |                      |                              | Х                              |                         |         |             | Х                               |                                 |          |             |          |                                   | Stimulate economic vitality objectives                           | Link land use and transportation  |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          |             |          |                                   | , , , , , , , , , , , , , , , , , , ,                            | Target funding to the most cost-effective solutions   |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          |             |          |                                   |  | Improve project delivery for all modes  |
| Research Triangle                |                      |                              |                                | ,,                      |         |             |                                 |                                 |          |             |          |                                   |  | Increase the proportion of highways and highway assets rated in 'Good' condition  |
| Region's MTP                     |                      |                              |                                | Х                       |         |             |                                 |                                 |          |             |          |                                   | Improve infrastructure condition                                 | Maintain transit vehicles, facilities and amenities in the best operating condition   |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 | -        |             |          |                                   |  | Improve the condition of bicycle and pedestrian facilities  |
|                                  |                      |                              |                                |                         | Х       |             |                                 |                                 |          | Х           |          | Х                                 | Promote safety and health objectives                             | Increase the safety of travelers and residents  |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          |             |          |                                   |  | Promote public health through transportation choices  |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          | _           |          |                                   | Dramata multi madal and affordable travel abaises                | Enhance transit services, amenities and facilities  |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          | Х           |          |                                   | Promote multi-modal and affordable travel choices                | Improve bicycle and pedestrian facilities Increase utilization of affordable non-auto travel modes  |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          |             |          |                                   |  | Connect people to jobs, education and other important destinations using all modes  |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          | Х           |          | Х                                 | Connect people   | Ensure transportation needs are met for all populations, especially the aging and youth, economically disadvantaged, mobility impaired, and minorities  |
|                                  |                      |                              |                                |                         |         |             |                                 |                                 |          |             |          | х                                 | , , , , , ,  | Ensure that transportation investments do not create a disproportionate burden for any community  Enhance public participation among all communities  |
| *The Kinston CTP is not included | becaus               | se it do                     | es not                         | identif                 | fy goal | S           |                                 | L                               |          | I           | I        | I                                 |  | (Continued on next page)  |

(Continued on next page)

<sup>\*</sup>The Kinston CTP is not included because it does not identify goals

\*\*Objectives and Strategies are not targeted to individual goals in the Carteret County CTP

\*\*\*An "X" indicates the goal outlined in the plan fits within the given goal area



Table 4. Goals, Objectives, and Strategies Established in the I-40/Future I-42/U.S. 70 Planning Area (Continued)

|                             |                   |                              |                         | G       | ioal A             | \r <u>ea</u> *                  | ***<br>                         |          |                         |                      |   |  |
|-----------------------------|-------------------|------------------------------|-------------------------|---------|--------------------|---------------------------------|---------------------------------|----------|-------------------------|----------------------|---|--|
|                             |                   | Na                           | iona                    | I/Stat  |                    |                                 |                                 | Coun     | ty/MPC                  |                      |   |  |
|                             |                   | Vitolita                     |                         |         |                    |                                 |                                 |          |                         | Life                 |   |  |
|                             | gestion Reduction | Environmental Sustainability | nfrastructure Condition | 5       | System Reliability | Reduced Project Delivery Delays | Cohesive and Strategic Planning | Mobility | Multi-Modal<br>Security | nomic and Quality of |   |  |
| Plan*                       | Conge             | בור<br>ביי                   | nfr?                    | Safety  | Syst               | Red                             | Soh                             | Mob      | Mult                    | Soc                  | Goal  | Objectives and Strategies**  |
|                             | X                 |                              |                         | X       | 0,                 |                                 |                                 |          | _ 0,                    | 0,                   | Identify ways to improve safety and congestion as well as programs to educate the public on traffic safety  | N/A  |
|                             |                   | X                            |                         |         |                    |                                 |                                 |          |                         |                      | Encourage identification and consideration of sustainable practices and environmental sensitivity   | N/A  |
|                             |                   |                              | X                       |         |                    |                                 | Х                               |          |                         |                      | Ensure the integrity of the existing transportation system by encouraging planned and strategic development   | N/A  |
|                             |                   |                              |                         |         |                    | Х                               |                                 |          |                         |                      | Provide a means to identifying and prioritizing transportation system needs on a local and regional scale   | N/A  |
| Johnston County             |                   |                              |                         |         |                    | Х                               |                                 |          |                         |                      | Coordinate transportation and improvement needs between multiple jurisdictions, including the RPO and MPO   | N/A  |
| CTP                         |                   |                              |                         |         |                    | X                               |                                 |          |                         |                      | Encourage right-of-way preservation to ensure expansion of the existing system and future roadway projects  | N/A  |
|                             |                   |                              |                         |         |                    | X                               |                                 |          |                         |                      | Identify various funding alternatives for traffic improvements and transportation needs   | N/A  |
|                             |                   |                              |                         |         |                    |                                 | Х                               |          | Х                       |                      | Enhance and expand services for alternative modes of transportation including but not limited to transit, walking and bicycling through increased funding and cooperative regional planning | N/A  |
|                             |                   | х                            |                         |         |                    |                                 |                                 |          |                         |                      | Environment   | Preserve and enhance the Goldsboro region's valued places and environment to provide a resilient transportation system.  |
|                             |                   |                              | Х                       | ,       |                    |                                 |                                 |          |                         |                      | Maintenance   | Preserve the existing network to maximize benefits to the transportation system while minimizing costs   |
|                             |                   |                              |                         | X       |                    |                                 |                                 |          |                         |                      | Safety  | Limit crashes in the region and provide safe facilities for bicyclists and pedestrians.  |
|                             |                   |                              |                         |         | Х                  |                                 |                                 |          |                         |                      | Efficiency  | Ensure the transportation system benefits from efficiency in coordinated policy and technology decisions   |
| Goldsboro Urban<br>Area MTP |                   |                              |                         |         |                    |                                 |                                 | Х        |                         |                      | Accessibility   | Ensure that roads provide safe access to local businesses to increase safety and network efficiency.   |
| 7.11.00.11.11               |                   |                              |                         |         |                    |                                 |                                 |          | Х                       |                      | Connectivity  | Provide a well-connected transportation network for automobiles, bicycles, and pedestrians   |
|                             |                   | )                            | (                       |         |                    |                                 |                                 |          |                         |                      | Economic Development  | Support regional economic development with a transportation system that makes it easier to move people and goods within and through the region and promotes overall job growth.                            |
|                             |                   |                              |                         |         |                    |                                 |                                 |          | х                       |                      | Security  | Provide safe access to evacuation routes and Seymour Johnson Air Force Base, while maintaining a flexible transportation system that aids the response to and recovery from natural and man-made disasters |
| *The Kinston CTP is no      | ot includ         | ded bed                      | ause i                  | it does | not ide            | entify (                        | goals                           | L        |                         |                      |   | (Continued on next page)   |

<sup>\*</sup>The Kinston CTP is not included because it does not identify goals

\*\*Objectives and Strategies are not targeted to individual goals in the Carteret County CTP

\*\*\*An "X" indicates the goal outlined in the plan fits within the given goal area



Table 4. Goals, Objectives, and Strategies Established in the I-40/Future I-42/U.S. 70 Planning Area (Continued)

|                             | Goal Area***                        |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   |   |  |
|-----------------------------|-------------------------------------|------------------------------|--|-------------------------|--------|--------------------|---------------------------------|---------------------------------|----------|-------------|----------|-----------------------------------|---|--|
|                             |                                     |                              | Natio                                  | onal/                   | State  |                    |                                 |                                 | Cou      | ınty/N      | ИРО      |                                   |   |  |
| Plan*                       | Congestion Reduction                | Environmental Sustainability | Freight Movement and Economic Vitality | nfrastructure Condition | Safety | System Reliability | Reduced Project Delivery Delays | Cohesive and Strategic Planning | Mobility | Multi-Modal | Security | Socioeconomic and Quality of Life | Goal  | Objectives and Strategies**  |
| Pian"                       | S                                   | Ш                            | ш                                      |                         | S      | S                  | ~                               | ပ                               | 2        | ≥           | တ        | S                                 | Goal  | Reduce crash rates, frequency, and severity of vehicle related crashes   |
|                             | Х                                   |                              |  |                         |        |                    |                                 |                                 | X        |             |          |                                   | Provide an efficient transportation system through improved connectivity, capacity, and operations  | Create a robust network of bicycle and pedestrian facilities delineated from vehicle traffic to increase visual awareness and reduce conflict points for non-motorized travelers |
|                             |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   | connectivity, capacity, and operations  | Protect rail crossings through better awareness, vehicle sightlines, and more gate controlled intersections  |
|                             |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   |   | Promote reductions in recurring congestion through transportation capacity, access management, and policy improvements   |
|                             |                                     | Х                            |  |                         |        |                    |                                 |                                 |          |             |          | X                                 | A transportation system that preserves and promotes the quality of life in Lenoir County  | Create a well maintained, more accommodating, network of roads with more connections to the various destinations throughout Lenoir County  |
|                             |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   |   |  |
| Lenoir County CTP           |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   |   | Identify transportation recommendations that enable global competitiveness, productivity, and efficiency   |
|                             |                                     |                              | Х                                      |                         |        |                    |                                 |                                 | Х        | X           |          |                                   | Support regional growth through a transportation network that serves inter- and intra- regional accessibility and mobility needs for both | Increase the accessibility and mobility of people and freight within the region to and from the Global TransPark and to other areas in Lenoir County                             |
|                             |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   | people and goods  | Continue to support the upgrade of Future Interstate 42 to interstate design standards   |
|                             |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   |   | Provide more transportation choices through the development and expansion of North Carolina's Strategic Transportation Corridors in Lenoir County                                |
|                             |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   |   | Minimize transportation impacts to the natural, social, and historic environment   |
|                             |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   | Promote a safer multi-modal transportation network through crash  | Improve bicycle, pedestrian and waterways access opportunities   |
|                             |                                     |                              |  |                         | Х      |                    |                                 |                                 |          |             |          |                                   | reduction, enhanced reliability and predictability, and clearer   | Plan for alternative forms of transportation addressing the needs of citizens whose access to transportation is limited by health or economic constraints                        |
|                             |                                     |                              |  |                         |        |                    |                                 |                                 |          |             |          |                                   | interaction between the various modes of transportation   | Leverage gateways and aesthetics to create an atmosphere that fosters economic investment  |
| *The Kinston CTP is not inc | ne Kinston CTP is not included beca |                              | ded because it does not identify goals |                         |        |                    | 3                               |                                 |          | •           |          |                                   | •   | (Continued on next page)   |

<sup>\*</sup>The Kinston CTP is not included because it does not identify goals

\*\*Objectives and Strategies are not targeted to individual goals in the Carteret County CTP

\*\*\*An "X" indicates the goal outlined in the plan fits within the given goal area



Table 4. Goals, Objectives, and Strategies Established in the I-40/Future I-42/U.S. 70 Planning Area (Continued)

|                                    |                      |                              |  |                         | (      | oal A              | \rea*                           | **                              |          |             |          |                                   |  |                              |
|------------------------------------|----------------------|------------------------------|--|-------------------------|--------|--------------------|---------------------------------|---------------------------------|----------|-------------|----------|-----------------------------------|--|------------------------------|
|                                    |                      |                              | Natio                                  | onal/                   | State  |                    |                                 |                                 | Cou      | ınty/N      | ИРО      |                                   |  |                              |
| Plan*                              | Congestion Reduction | Environmental Sustainability | Freight Movement and Economic Vitality | nfrastructure Condition | Safety | System Reliability | Reduced Project Delivery Delays | Cohesive and Strategic Planning | Mobility | Multi-Modal | Security | Socioeconomic and Quality of Life | Goal   | Objectives and Strategies**  |
| r ian                              | Х                    |                              |  | _                       |        | 0,                 | Х                               |                                 | _        | _           | 0,       | 0,                                | Develop recommendations that capitalize on the use of existing infrastructure across traditional jurisdictions and add capacity strategically  | N/A                          |
|                                    |                      | Х                            |  |                         |        |                    |                                 |                                 |          |             |          |                                   | Make informed transportation decisions that are sensitive to the environment and existing development patterns   | N/A                          |
|                                    |                      |                              | X                                      |                         |        |                    |                                 |                                 |          |             |          |                                   | Create land use and access management policy recommendations that optimize available transportation capacity for agriculture and economic development activities occurring within the County   | N/A                          |
| Jones County CTP                   |                      |                              |  |                         |        |                    | Х                               |                                 | х        |             |          |                                   | Develop recommendations that improve and upgrade the connections between local urban areas within the county by identifying major corridors and using access management techniques   | N/A                          |
|                                    |                      |                              |  |                         |        |                    | Х                               |                                 |          | x           |          |                                   | Establish a county-wide multi-modal transportation plan in conjunction with the county land use plan in cooperation with local and state organizations including but not limited to the Down East Rural Planning Organization, Town of Maysville, Town of Pollocksville, Town of Trenton, and neighbouring communities | N/A                          |
|                                    |                      |                              |  |                         |        |                    | Х                               |                                 |          |             |          |                                   | Offer policy guidance to local governments so that they can ensure the protection of corridors for future transportation use   | N/A                          |
| *The Kinston CTP is not included b |                      |                              |  |                         |        |                    |                                 |                                 | Х        |             |          |                                   | Develop recommendations that create opportunities for better mobility from local areas within the county to regional activity centers outside the county   | N/A (Continued on next page) |

(Continued on next page)

<sup>\*</sup>The Kinston CTP is not included because it does not identify goals

\*\*Objectives and Strategies are not targeted to individual goals in the Carteret County CTP

\*\*\*An "X" indicates the goal outlined in the plan fits within the given goal area



Table 4. Goals, Objectives, and Strategies Established in the I-40/Future I-42/U.S. 70 Planning Area (Continued)

|                          |                      |                                       |  |                         | G  | oal <i>i</i>       | Area <sup>*</sup>               | ***                             |          |        |          |                                   |   |   |
|--------------------------|----------------------|---------------------------------------|--|-------------------------|--|--------------------|---------------------------------|---------------------------------|----------|--------|----------|-----------------------------------|---|---|
|                          |                      |                                       | Natio                                  | onal/                   | State  | )                  |                                 |                                 | Co       | unty/l | МРО      |                                   |   |   |
|                          | Congestion Reduction | Environmental Sustainability          | Freight Movement and Economic Vitality | nfrastructure Condition |  | System Reliability | Reduced Project Delivery Delays | Cohesive and Strategic Planning |          | dal    |          | Socioeconomic and Quality of Life |   |   |
| Plan*                    | Conç                 | Envi                                  | Freig                                  | Infra                   | Safety   | Syste              | Redu                            | Cohe                            | Mobility | Multi  | Security | Socie                             | Goal  | Objectives and Strategies**   |
|                          |                      |                                       | X                                      |                         | X  | X                  |                                 |                                 | X        | X      | X        |                                   | Provide a safe, secure, comprehensive, and effective transportation system for moving freight and people to bolster regional economic development | Enhance mobility and accessibility and manage congestion across the transportation system and across modes of transportation  Support projects, programs, and policies that advance safe and secure travel for all transportation system users  Plan and support a freight transportation system that allows for the efficient movement of goods  Improve resiliency and reliability of the transportation system through increasing roadway network connectivity and supporting multiple route options |
|                          |                      |                                       |  |                         |  |                    |                                 |                                 | X        | Х      |          |                                   | Provide a transportation system that  | Integrate walking and bicycling with vehicular travel and encourage the use of walking and bicycling  |
|                          |                      |                                       |  |                         |  |                    |                                 |                                 | ^        | ^      |          |                                   | enables mobility choices  | Maximize rail and air transportation opportunities  |
| N. B. A                  |                      |                                       |  | Х                       |  | Х                  |                                 |                                 |          |        |          |                                   | Seek to optimize the existing transportation system   | Prioritize maintaining existing assets before exploring system expansion options  |
| New Bern Area<br>MPO MTP |                      |                                       |  |                         |  |                    |                                 |                                 |          | X      |          | X                                 | Promote equity and accessibility in transportation options for  | Utilize existing transportation capacity through targeted economic redevelopment in areas with sufficient infrastructure Improve opportunities to serve transportation-disadvantaged populations with convenient transportation to needed services and desired travel destinations  |
|                          |                      |                                       |  |                         |  |                    |                                 |                                 |          | ^      |          | ^                                 | transportation-disadvantaged  | Provide meaningful opportunities for public involvement in the transportation planning process  |
|                          |                      |                                       |  |                         |  |                    |                                 |                                 |          |        |          |                                   | populations   | Use inclusive design to make the system work for all users  |
|                          |                      |                                       |  |                         |  |                    |                                 |                                 |          |        |          |                                   |   | Support land use planning strategies that facilitate efficient transportation system use and development  Align the transportation infrastructure investment with community vision of future growth   |
|                          |                      |                                       | Х                                      |                         |  |                    |                                 | X                               |          |        |          |                                   | Integrate land use and transportation planning  | Encourage density and destination clustering which will increase accessibility and multimodal transportation options  |
| *The Kinston CTP is not  | include              | ed because it does not identify goals |  |                         | Support areas designated for additional economic development potential under programs such as Opportunity Zones and North Carolina Industrial Commission Certified Sites through transportation infrastructure investments  (Continued on next page) |                    |                                 |                                 |          |        |          |                                   |   |   |

(Continued on next page)

<sup>\*</sup>The Kinston CTP is not included because it does not identify goals

\*\*Objectives and Strategies are not targeted to individual goals in the Carteret County CTP

\*\*\*An "X" indicates the goal outlined in the plan fits within the given goal area



Table 4. Goals, Objectives, and Strategies Established in the I-40/Future I-42/U.S. 70 Planning Area (Continued)

|                     |                      |                              |  |                          | (      | Goal               | Area <sup>°</sup>               | ***                             |    |             |          |                                   |  |   |
|---------------------|----------------------|------------------------------|--|--------------------------|--------|--------------------|---------------------------------|---------------------------------|----|-------------|----------|-----------------------------------|--|---|
|                     | _                    |                              | Nati                                   | onal/                    | State  | е                  |                                 |                                 | Co | unty/       | MPO      | )                                 |  |   |
| Plan*               | Congestion Reduction | Environmental Sustainability | Freight Movement and Economic Vitality | Infrastructure Condition | Safety | System Reliability | Reduced Project Delivery Delays | Cohesive and Strategic Planning |    | Multi-Modal | Security | Socioeconomic and Quality of Life | Goal   | Objectives and Strategies**   |
|                     | Х                    | X                            | _                                      |                          |        |                    |                                 | Х                               |    |             |          |                                   | Maximize the use of existing facilities and add capacity and connectivity strategically  | Establish a Countywide multi-modal transportation system  |
|                     | X                    |                              |  |                          | Х      |                    |                                 |                                 |    |             |          |                                   | Reduce congestion and improve safety   | Coordinate transportation and land use plans between Carteret County and its Towns, and the Down East Rural Planning Organization, the North Carolina Department of Transportation,   |
|                     |                      |                              | Х                                      |                          | X      |                    |                                 |                                 |    | X           |          | X                                 | Provide a safe, reliable, efficient, and sustainable multi-modal regional transportation network that enhances the quality of life within, and economic vitality of, Carteret County and its Towns, as well as Eastern Carolina  | plus other local and state organizations  • Enhance and expand services for alternative transportation needs, including (but not limited to) transit, walking, and                    |
|                     |                      |                              | х                                      |                          |        |                    |                                 | x                               |    |             |          |                                   | Promote the continued improvement of the road and rail networks to and within Carteret County to create a transportation network that promotes and supports economic development, particularly development that is compatible with the existing and future land use goals and patterns | bicycling     Make informed transportation decisions that are sensitive to possible adverse impacts on the environment     Study automobile crashes within the county and make        |
| Carteret County CTP |                      |                              |  |                          |        |                    | Х                               |                                 |    |             |          |                                   | Promote cooperative local and regional planning  | <ul><li>improvement recommendations</li><li>Use traffic management techniques to improve and upgrade</li></ul>  |
|                     |                      |                              |  |                          |        |                    | X                               |                                 |    |             |          |                                   | Promote the orderly design of new rights-of-way  | the connections between communities and to identify major transportation corridors  • Coordinate transportation plans and recommendations with  |
|                     |                      |                              |  |                          |        |                    |                                 |                                 |    | Х           |          |                                   | Plan for alternative forms of transportation   | Carteret County Emergency Management Office and other relevant local and State organizations  |
|                     |                      |                              |  |                          |        |                    |                                 |                                 |    | Х           |          |                                   | Seek increased funding of all transportation modes   | Solicit additional transportation goals and objectives for the future from the municipalities and Carteret County     Educate the public on general transportation issues, as well as |
|                     |                      |                              |  |                          |        |                    |                                 |                                 |    |             | Х        |                                   | Ensure the safe evacuation of the population when hurricanes and other natural hazards occur   | alternative forms of transportation   |

<sup>\*</sup>The Kinston CTP is not included because it does not identify goals

\*\*Objectives and Strategies are not targeted to individual goals in the Carteret County CTP

\*\*\*An "X" indicates the goal outlined in the plan fits within the given goal area



### 3. Performance Measures

#### 3.1. National Performance Measures

Consistent with the vision set for the STC network, it is in the public interest that the primary facilities on the STC network provide long-term, high-quality levels of service in terms of safety, travel speed, and reliability. To understand whether the STC goals and objectives are being met, it is necessary to define expectations and measure performance. NCDOT is strongly aligned with recent rulemaking by the FHWA and FTA to adopt performance measures to assess system performance. National and state performance measures and their respective state targets are included in **Table 5**. Performance measures provided by the FTA are in **Table 6**.

Table 5. Federal Highway Administration and State Performance Measures

| Goal Area          | Goal   | Performance Measure  | NCDOT Targets    |  |  |  |  |  |
|--------------------|--|--|------------------|--|--|--|--|--|
|                    |  | Number of Fatalities   | 1,227.8 (2020)   |  |  |  |  |  |
|                    | To achieve a significant                     | Rate of Fatalities   | 1.084 (2020)     |  |  |  |  |  |
| Safety*            | reduction in traffic fatalities              | 2,812.8 (2020)   |                  |  |  |  |  |  |
| Garcty             | and serious injuries on all                  | Rate of Serious Injuries   | 2.462 (2020)     |  |  |  |  |  |
|                    | public roads                                 | ublic roads  Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries             |                  |  |  |  |  |  |
|                    |  | Percentage of Pavements in Good Condition (Interstate)   | >=37.0% (4 year) |  |  |  |  |  |
|                    |  | Percentage of Pavements in Poor Condition (Interstate)   | <=2.2% (4 year)  |  |  |  |  |  |
| Infrastructure     | To maintain the highway infrastructure asset | Percentage of Pavements in Good<br>Condition (Non-Interstate National<br>Highway System [NHS]) | >=21.0% (4 year) |  |  |  |  |  |
| Condition          | system in a state of good repair             | Percentage of Pavements in Poor Condition (Non-Interstate NHS)                                 | <=4.7% (4 year)  |  |  |  |  |  |
|                    |  | Percentage of Bridges in Good<br>Condition (NHS)   | >=30.0% (4 year) |  |  |  |  |  |
|                    |  | Percentage of Bridges in Poor Condition (NHS)  | <=9.0% (4 year)  |  |  |  |  |  |
| System Reliability | To improve the efficiency of the surface     | Percent of Reliable Person-Miles Traveled (Interstate)   | >=75.0% (4 year) |  |  |  |  |  |
| ,                  | transportation system                        | Percent of Reliable Person-Miles<br>Traveled (Non-Interstate NHS)                              | >=70.0% (4 year) |  |  |  |  |  |

<sup>\*</sup>NCDOT safety targets are established in the Highway Safety Improvement Program 2019 Annual Report. (Continued on next page)

<sup>\*\*</sup>This performance measure only applies to the Charlotte maintenance area.

<sup>\*\*\*</sup>This performance measure only applies to the Charlotte urbanized area.

<sup>&</sup>lt;sup>†</sup>This performance measure is specific to NCDOT. High index values indicate unreliable truck travel times while low values indicate more reliable travel times.

<sup>&</sup>lt;sup>††</sup>This performance measure is specific to NCDOT. FHWA does not have a defined performance measure for this goal.



Table 5. Federal Highway Administration and State Performance Measures (Continued)

| Goal Area                            | Goal   | Performance Measure   | NCDOT Targets   |
|--------------------------------------|--|---|---|
| Environmental<br>Sustainability      | To enhance the performance of the transportation system while protecting and enhancing the natural environment   | Total Emissions Reduction**   | 4-year target:<br>CO: 23.044 kg/day<br>VOC: 0.504 kg/day<br>NOx: 4.720 kg/day |
| Congestion<br>Reduction              | To achieve a significant reduction in congestion on  | Annual Hours of Peak Hour<br>Excessive Delay (PHED) Per<br>Capita on the NHS***       | <=34.0% (4 year)  |
| Reduction                            | the NHS  | Percent of Non-Single Occupancy<br>Vehicle (SOV) Travel***                            | >=21.0% (4 year)  |
| Freight Movement & Economic Vitality | To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development | Interstate Truck Travel Time<br>Reliability Index <sup>†</sup>                        | >=1.7 (4 year)  |
| Reduced Project<br>Delivery Delays   |  | STIP and non-STIP planned projects that are let to contract on schedule <sup>††</sup> | <= 90%  |

<sup>\*</sup>NCDOT safety targets are established in the Highway Safety Improvement Program 2019 Annual Report.

<sup>\*\*</sup>This performance measure only applies to the Charlotte maintenance area.

<sup>\*\*\*</sup>This performance measure only applies to the Charlotte urbanized area.

<sup>†</sup>This performance measure is specific to NCDOT. High index values indicate unreliable truck travel times while low values indicate more reliable travel times.

<sup>&</sup>lt;sup>††</sup>This performance measure is specific to NCDOT. FHWA does not have a defined performance measure for this goal.



Table 6. Federal Transit Administration and State Performance Measures

| Goal Area                   | Performance Measures   | NCDOT Target |  |
|-----------------------------|--|--------------|--|
|                             | Total number of reportable fatalities and rate per total vehicle revenue miles by mode                                     | N/A          |  |
| Safety*                     | Total number of reportable injuries and rate per total vehicle revenue miles by mode                                       | N/A          |  |
| •                           | Total number of reportable events and rate per total vehicle revenue miles by mode   | N/A          |  |
|                             | Mean distance between major mechanical failures by mode  | N/A          |  |
|                             | Percentage of vehicles that have met or exceeded their Useful Life Benchmark (ULB)**                                       | 20% (2020)   |  |
| Infrastructure<br>Condition | Percentage of revenue vehicles within a particular asset class that have met or exceeded their ULB <sup>†</sup>            | 20% (2020)   |  |
| Condition                   | Percentage of facilities within an asset class rated below 3.0 on the FTA Transit Economic Requirements Model (TERM) scale | 20% (2020)   |  |
|                             | Percent of track segments under performance restriction  | N/A          |  |

<sup>\*</sup>The NCDOT Transit Asset Management Plan does not discuss FTA safety performance measures.

#### 3.2. Corridor Performance Measures

The project team compiled performance measures that were developed in CTPs and MTPs along I-40/Future I-42/U.S. 70 as shown in **Table 7** and **Table 8**. **Table 7** identifies the plans that align with the performance measures that fall under the national goal areas and **Table 8** defines the performance measures that are found in the plans and identifies which county/MPO goal area the measures support.

<sup>\*\*</sup>The NCDOT identifies a ULB of 8 years for the following asset classes: non-revenue/service automobiles, steel wheel vehicles, and trucks and other rubber tire vehicles. For all other asset classes, the NCDOT has left it up to individual agencies to determine the ULB.

<sup>&</sup>lt;sup>†</sup>The NCDOT identifies ULBs for each asset class as follows: 14 years for buses, 10 years for cutaway buses and mini-buses, and 8 years for automobiles, mini-vans, sport utility vehicles, vans, and others.



Table 7. National and State Performance Measures Established in the I-40/Future I-42/U.S. 70 Planning Area

| National/State Goal Area  National/State (Hightway) Solety  National/State (Hightway) Solety  National/State (Hightway) Solety  National/State (Transit)  National/State (Hightway)  National/State (Hightway)  National/State (Hightway)  National/State (Hightway)  Percentage of Pavements in Poor Condition (Neths)  Percentage of Pavements in Condition (Neths)  National/State  Percentage of Pavements in Condition (Neths)  Percentage of Pavements in Cond |                    |                |   |                                  | Pla                                   | an*                            |                         |
|--|--------------------|----------------|---|----------------------------------|---------------------------------------|--------------------------------|-------------------------|
| Safety  Rate of Fatalities (Highway)  Rate of Serious Injuries  Rate of Serious Injuries  Rate of Serious Injuries  Number of Serious Injuries  Number of Serious Injuries  Number of Non-Motorized Strailities and rate per total vehicle revenue miles by mode  Total number of reportable fatalities and rate per total vehicle revenue miles by mode  Total number of reportable injuries and rate per total vehicle revenue miles by mode  Mandistance between major mechanical failures by mode  Percentage of Bridges in Poor Condition (NHS)  Percentage of Bridges in Poor Condition (Nine)  Percentage of Bridges in Poor Condition (Nine)  Percentage of Pavements in Bood Condition (Nine) interstate NHS)  Percentage of Pavements in Bood Condition (Non-interstate NHS)  Percentage of Pavements in Bood Condition (Non-interstate NHS)  Percentage of Vehicles that have met or exceeded their Useful Life Benchmark (ULB)  Recentage of Vehicles within an asset class rate delow 3.0 on the FTA Transit  Economic Requirements Model (TERM) scale  MPO  Percentage of Service vehicles within an asset class rated below 3.0 on the FTA Transit  Environmental  National/State (Highway)  MPO  MPO  Percentage of Regioner of Patholes Repaired Within Two Days by NCDOT  X  X  X  X  X  X  X  X  X  X  X  X  X  |                    |                | Performance Measure   | Research Triangle Region's MTP** | Area MPO                              | Goldsboro Urban Area MPO MTP** | New Bern Area MPO MTP** |
| National/State   |                    |                |   |                                  |                                       |                                | Х                       |
| Safety    Safety   Sa |                    | National/State |   |                                  |                                       |                                | X                       |
| Safety    Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries   X   X   X   X   X   X   X   X   X  |                    |                |   |                                  |                                       |                                | X                       |
| Total number of reportable fabilities and rate per total vehicle revenue miles by mode (Transit)  Total number of reportable injuries and rate per total vehicle revenue miles by mode (Transit)  Mean distance between major mechanical failures by mode Mean distance between major mechanical failures by mode  Percentage of Bridges in Good Condition (NHS)  National/State (Highway)  Percentage of Pavements in Good Condition (Interstate)  National/State (Highway)  National/State (Highway)  Percent of Reliable Person-Miles Traveled (Non-Interstate NHS)  National/State (Highway)  Percent of Reliable Person-Miles Traveled (Interstate)  National/State (Highway)  Percent of Reliable Person-Miles Traveled (Interstate)  Percent of Reliable Person-Miles Traveled (Interstate)  National/State (Highway)  Percent of Relia | 0.4.               |                |   |                                  |                                       | 1                              | X                       |
| National/State (Transit)  Total number of reportable injuries and rate per total vehicle revenue miles by mode (Transit)  National/State (Mighway)  Percentage of Bridges in Good Condition (NHS)  Percentage of Bridges in Good Condition (NHS)  Percentage of Bridges in Good Condition (Interstate)  Percentage of Bridges in Good Condition (Interstate)  Percentage of Pavements in Good Condition (Interstate)  Percentage of Interstate (Interstate)  Percentage of Pavements in Good Condition (Interstate)  Percentage of ULB  Percentage of Pavements in Good Condition (Interstate)  Percentage of ULB  Percentage of ULB  Percentage of Pavements in Good Condition (Interstate)  Percentage of ULB  Percentage of Pavements in Good Condition (Interstate)  Percentage of ULB  Percentage of Pavements in Good Condition (Interstate)  Percentage of Interstate Pavements in Condition (I | Safety             |                |   | Х                                | Х                                     |                                | Х                       |
| Transity   Mean distance between major mechanical failures by mode   X   X   Percentage of Bridges in Good Condition (NHS)   X   X   X   X   Percentage of Bridges in Good Condition (Interstate)   X   X   X   X   X   Percentage of Bridges in Good Condition (Interstate)   X   X   X   X   X   Percentage of Bridges in Good Condition (Interstate)   X   X   X   X   X   X   Percentage of Bridges in Good Condition (Interstate)   X   X   X   X   X   X   X   Percentage of Pawements in Good Condition (Interstate)   X   X   X   X   X   X   X   X   X  |                    |                |   |                                  |                                       |                                |                         |
| Mean distance between major mechanical failures by mode  Percentage of Bridges in Good Condition (NHS)  National/State (Highway)  Infrastructure (Highway)  Infrastructure Condition Condition Condition  National/State (Highway)  Percentage of Pavements in Good Condition (Nterstate)  Percentage of Pavements in Good Condition (Nterstate)  Percentage of Pavements in Foor Condition (Non-Interstate NHS)  National/State (Transit)  Percentage of Pavements in Foor Condition (Non-Interstate NHS)  Percentage of Pavements in Foor Condition (Non-Interstate NHS)  Percentage of Pavements in Foor Condition (Non-Interstate NHS)  Number and Pavement (Non-Interstate NHS)  Number and Pavement (Non-Interstate NHS)  Number and Pavements under performance restriction  NPO  NPO  NPO  National/State (Highway)  NPO  NATIONAL (Non-Interstate NHS)  NATIONAL (Non-Inter |                    |                |   |                                  |                                       |                                |                         |
| Percentage of Bridges in Good Condition (NHS) National/State (Highway) Percentage of Bridges in Poor Condition (NHS) Percentage of Pavements in Good Condition (Interstate) Percentage of Pavements in Good Condition (Interstate) Percentage of Pavements in Good Condition (Non-Interstate NHS) Percentage of Pavements in Poor Condition (Non-Interstate NHS) Percentage of Pavements in Foor Condition (Non-Interstate NHS) Percentage of Pavements Model (TERM) scale Percentage of Pavements in Foor Condition (Non-Interstate NHS) Number and Percentage of Structurally Deficient Bridges Percentage of Pavement Pavement Condition Rating X X X X X X X X X X X X X X X X X X X  |                    | (Transit)      |   |                                  |                                       |                                |                         |
| National/State   Percentage of Bridges in Poor Condition (NHS)   |                    |                |   |                                  |                                       |                                |                         |
| National/State (Highway)  Infrastructure Condition  Infrastructure Condition  Infrastructure Condition  Percentage of Pavements in Good Condition (Interstate)  Percentage of Pavements in Good Condition (Non-Interstate NHS)  National/State (Percentage of Interstate)  National/State (Percentage of Interstate)  National/State (Highway)  Percentage of Interstate (NHS)  National/State (Highway)  National/Sta |                    |                | · · ·   |                                  |                                       |                                | X                       |
| Congestion Reduction   Percentage of Pavements in Poor Condition (Interstate)   X X X X X X X X X X X X X X X X X X  |                    |                |   |                                  |                                       |                                | X                       |
| Infrastructure Condition  Percentage of Pavements in Good Condition (Non-Interstate NHS)  Percentage of Pavements in Good Condition (Non-Interstate NHS)  Percentage of Pavements in Good Condition (Non-Interstate NHS)  Percentage of Vehicles that have met or exceeded their Use Benchmark (ULB)  Percentage of Vehicles that have met or exceeded their Use Benchmark (ULB)  Percentage of Vehicles that have met or exceeded their Use Benchmark (ULB)  Percentage of Vehicles that have met or exceeded their Use Percentage of Structurally Deficient Bridges  National/State Percentage of Tabellities within an asset class rated below 3.0 on the FTA Transit  Percentage of Lane Miles with RODOT Unacceptable Pavement Condition Rating  Percentage of Lane Miles with RODOT Unacceptable Pavement Condition Rating  Percentage of Lane Miles with RODOT Unacceptable Pavement Condition Rating  Percentage of Lane Miles with RODOT Unacceptable Pavement Condition Rating  Percentage of Lane Miles with RODOT Unacceptable Pavement Condition Rating  Percentage of Lane Miles with RODOT Unacceptable Pavement Condition Rating  Percentage of Pavement Miles Traveled (Interstate)  National/State (Highway)  Percentage of Estructurally Deficient Bridges  National/State (Highway)  MPO  State (Highway)  Environmental Sustainability  MPO  Mational/State (Highway)  Environmental Sustainability  MPO  Mational/State (Highway)  Mational/State (Highway)  Fercentage of Pavement Excessive Delay (PHED) Per Capita on the NHS  Energy Consumption per Capita from Transportation Sources  Percentage of Panned Investment in Existing Roadways (Versus New Alignment)  X  Average Clearance Time for Crashes on Principal Roadways  Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes  X  Average Clearance Time for Crashes on Principal Roadways  Percentage of Miles Truck Delay Per Trip  Percentage of Miles Transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or  |                    |                |   |                                  |                                       | 1                              | Х                       |
| Percentage of Pavements in Poor Condition (Non-Interstate NHS)  National/State (Transit)  National/State (Highway)  Nation |                    | (Highway)      |   |                                  |                                       |                                | Х                       |
| Infrastructure Condition  National/State (Transit)  National/State (Transit)  Percentage of vehicles that have met or exceeded their Useful Life Benchmark (ULB)   |                    |                | , ,   |                                  |                                       |                                | Х                       |
| Condition  National/State (Transit)  Percentage of revenue vehicles within a particular asset class that have met or exceeded their ULB (Transit)  Percentage of facilities within an asset class rated below 3.0 on the FTA Transit Economic Regularements Model (TERM) scale Percent of track segments under performance restriction  MPO  National/State (Highway)  Percentage of Reported Potholes Repaired Within Two Days by NCDOT   |                    |                |   |                                  |                                       |                                | Х                       |
| National/State (Transit) Environmental Sustainability  Percent of Reliabile Person-Miles Traveled (Non-Interstate NHS) Environmental Sustainability  Percent of Reliabile Person-Miles Traveled (Non-Interstate NHS)  Percent of Reliabile Person-Miles Traveled (Non-Interstate NHS)  Percent of Reliabile Person-Miles Traveled (Non-Interstate NHS)  National/State (Highway)  Environmental Sustainability  Percent of Reliabile Person-Miles Traveled (Non-Interstate NHS)  Percent of Reliabile Person-Miles Traveled (Non-Interstate NHS)  National/State (Highway)  Environmental Sustainability  MPO  National/State (Highway)  Environmental Sustainability  Amount of ITS Investments  Total Emissions Reduction  Percentage of Panned Investments National/State (Highway)  Environmental Sustainability  Amount of ITS Investments  Total Emissions Reduction  Amount of ITS Investments  Total Emissions Reduction  Percentage of Panned Investment in Existing Roadways (Versus New Alignment)  Annual Hours of Peak Hour Excessive Delay (PHED) Per Capita on the NHS  Average Clearance Time for Crashes on Principal Roadways  National/State (Highway)  Percent of Non-Single Occupancy Vehicle (SOV) Travel  Average Clearance Time for Crashes on Principal Roadways  National/State (Highway)  Percent of Non-Single Occupancy Vehicle (SOV) Travel  Average Clearance Time for Crashes on Principal Roadways  National/State (Highway)  Percent Non-Interstate NHS miles Level of Travel Time Reliability Index  Interstate Truck Travel Time Reliability Index  National/State (Highway)  Percent Interstate Truck Travel Time Reliability Index  State (Highway)  Freight Buffer Time Index  State (Highway)  Percent Interstate Truck Travel Time Reliability Index  Interstate Truck State and Commission Certified sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certi |                    |                | · · · · · · · · · · · · · · · · · · ·   |                                  | Х                                     | Х                              | Х                       |
| Congestion Reduction   Percent age of Facilities within an asset class rated below 3.0 on the FTA Transit   X  | Condition          | National/State |   |                                  | Х                                     | Х                              | X                       |
| Economic Requirements Model (TERM) scale Percent of track segments under performance restriction Number and Percentage of Structurally Deficient Bridges Percentage of Lane Miles with NCDOT Unacceptable Pavement Condition Rating Percentage of Lane Miles with NCDOT Unacceptable Pavement Condition Rating Percentage of Lane Miles with NCDOT Unacceptable Pavement Condition Rating Percentage of Reported Potholes Repaired Within Two Days by NCDOT X X X X X X Y Percent of Reliable Person-Miles Traveled (Interstate) X X X X X X X X X X X X X X X X X X X   |                    |                |   |                                  |                                       |                                |                         |
| Number and Percentage of Structurally Deficient Bridges  |                    |                |   |                                  | X                                     | Х                              | Х                       |
| MPO Percentage of Lane Miles with NCDOT Unacceptable Pavement Condition Rating X Percentage of Reported Potholes Repaired Within Two Days by NCDOT X X X X X X X X X X X X X X X X X X X   |                    |                | Percent of track segments under performance restriction   |                                  |                                       |                                | Х                       |
| Percentage of Reported Potholes Repaired Within Two Days by NCDOT X X X X X X X X X X X X X X X X X X X  |                    |                | Number and Percentage of Structurally Deficient Bridges   | Χ                                |                                       |                                |                         |
| National/State (Highway)   Percent of Reliable Person-Miles Traveled (Interstate)   X X X X X X X X X X X X X X X X X X  |                    | MPO            | Percentage of Lane Miles with NCDOT Unacceptable Pavement Condition Rating  | Χ                                |                                       |                                |                         |
| System Reliability  (Highway)  Percent of Reliable Person-Miles Traveled (Non-Interstate NHS)  National/State (Highway)  Environmental Sustainability  MPO  National/State (Highway)  Environmental Sustainability  MPO  National/State (Highway)  Percentage of Planned Investments  National/State (Highway)  Environmental Sustainability  MPO  National/State (Highway)  Percentage of Planned Investment in Existing Roadways (Versus New Alignment)  National/State (Highway)  Percent of Non-Single Occupancy Vehicle (SOV) Travel  Average Clearance Time for Crashes on Principal Roadways  National/State (Highway)  Percent of Non-Single Occupancy Vehicle (SOV) Travel  Average Clearance Time for Crashes on Principal Roadways  National/State (Highway)  Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes  National/State (Highway)  Percent Non-Interstate Truck Travel Time Reliability Index  Percent Interstate miles Level of Travel Time Reliability  Percent Interstate miles Level of Travel Time Reliability  Percent Non-Interstate miles Level of Travel Time Reliability  Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified Sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified Sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified Sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified Sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified Sites or other locations designated Opportunity Zones, N.C. Industrial Commission Certified Sites or other locations designated Opportunity Zones, N. |                    |                | Percentage of Reported Potholes Repaired Within Two Days by NCDOT   | Χ                                |                                       |                                |                         |
| MPO  |                    | National/State | Percent of Reliable Person-Miles Traveled (Interstate)  |                                  | Х                                     | Х                              | Х                       |
| National/State (Highway)   | Svetem Reliability | (Highway)      | Percent of Reliable Person-Miles Traveled (Non-Interstate NHS)  |                                  | Х                                     | Х                              | Х                       |
| Amount of ITS Investments    National/State (Highway)  | Cystern remasking  | MPO            | Vehicle Miles of Travel (VMT) Per Capita  | Χ                                |                                       |                                |                         |
| Environmental Sustainability  MPO  Emissions Reduction  MPO  Emissions per Capita from On-road Mobile Sources (ozone, carbon monoxide, particulate matter, greenhouse gases)  Energy Consumption per Capita from Transportation Sources Percentage of Planned Investment in Existing Roadways (Versus New Alignment)  National/State (Highway)  MPO  National/State (Highway)  National/State (Highway)  National/State (Highway)  National/State (Highway)  National/State (Highway)  National/State (Highway)  Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes X  Daily Minutes of Delay per Capita Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes  National/State (Highway)  Freight Movement & Economic Vitality  MPO  Freight Environment & Freight Buffer Time Index Minutes of Truck Delay Per Trip Percent Interstate miles Level of Travel Time Reliability  Percent Non-Interstate NHS miles Level of Travel Time Reliability  The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industral Commission Certified sites or other locations designated for targeted economic development  Reduced Project Delivery Delays  MPO  MPO  MPO  MPO  Total Individuals Provided Transportation Demand Management Program and Activity Support  Percentage of TIP Projects Completed On-time (Let to Construction) by Mode Percentage of TIP Projects Built in the Time Period in Which They First Appeared X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared X  |                    |                | Amount of ITS Investments   | Χ                                |                                       |                                |                         |
| Sustainability  MPO  MPO  MRO  MRO  MICHIGAN  MRO  MICHIGAN  MRO  MRO  MRO  MICHIGAN  MRO  MRO  MRO  MRO  MRO  MRO  MRO  MR  |                    |                |   |                                  |                                       | Х                              |                         |
| Percentage of Planned Investment in Existing Roadways (Versus New Alignment)  National/State (Highway)  National/State (Hi |                    | MPO            | monoxide,particulate matter, greenhouse gases)  |                                  |                                       |                                |                         |
| Congestion Reduction  National/State (Highway)  Percent of Non-Single Occupancy Vehicle (SOV) Travel  Average Clearance Time for Crashes on Principal Roadways  Average Clearance Time for Crashes on Principal Roadways  Daily Minutes of Delay per Capita Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes  National/State (Highway)  Interstate Truck Travel Time Reliability Index  Freight Buffer Time Index  MPO  Freight Buffer Time Index  Minutes of Truck Delay Per Trip Percent Interstate miles Level of Travel Time Reliability  The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  State (Highway)  State (Highway)  State (Highway)  For Interstate Truck Travel Time Reliability  X  Total Individuals Provided Transportation Demand Management Program and Activity X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared X  |                    |                |   |                                  |                                       |                                |                         |
| Congestion Reduction  (Highway)  Percent of Non-Single Occupancy Vehicle (SOV) Travel  Average Clearance Time for Crashes on Principal Roadways  Daily Minutes of Delay per Capita Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes  Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes  Interstate Truck Travel Time Reliability Index  Freight Buffer Time Index Minutes of Truck Delay Per Trip Percent Interstate miles Level of Travel Time Reliability Percent Non-Interstate NHS miles Level of Travel Time Reliability  The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  State (Highway)  State (Highway)  Total Individuals Provided Transportation Demand Management Program and Activity Support  Percentage of TIP Projects Built in the Time Period in Which They First Appeared  X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared  X  |                    |                |   | Х                                |                                       |                                |                         |
| Congestion Reduction  MPO  Average Clearance Time for Crashes on Principal Roadways  Daily Minutes of Delay per Capita Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes  National/State (Highway)  National/State (Highway)  Freight Buffer Time Index Minutes of Truck Delay Per Trip Percent Interstate miles Level of Travel Time Reliability Percent Non-Interstate miles Level of Travel Time Reliability Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  State (Highway)  Average Clearance Time for Crashes on Principal Roadways X X X X X X X X X X X X X X X X X X X  |                    |                | • • • • •   |                                  |                                       |                                |                         |
| Reduction  MPO  Average Clearance Time for Crashes on Principal Roadways Daily Minutes of Delay per Capita Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes  National/State (Highway) Interstate Truck Travel Time Reliability Index  Freight Buffer Time Index Minutes of Truck Delay Per Trip Percent Interstate miles Level of Travel Time Reliability Percent Non-Interstate NHS miles Level of Travel Time Reliability The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway) State (Highway) Total Individuals Provided Transportation Demand Management Program and Activity Support Percentage of TIP Projects Completed On-time (Let to Construction) by Mode Percentage of TIP Projects Built in the Time Period in Which They First Appeared X Percentage of TIP Projects Built in the Time Period in Which They First Appeared X  | Congestion         | (Highway)      |   |                                  |                                       | Х                              |                         |
| Percentage of Work and Non-Work Trips by Auto That Take Less Than 30 Minutes X X X X X X X X X X X X X X X X X X X   |                    |                | · · · · · · · · · · · · · · · · · · ·   |                                  |                                       |                                |                         |
| Preight Movement & Economic Vitality  MPO  Reduced Project Delivery Delays  MPO  National/State (Highway)  Interstate Truck Travel Time Reliability Index  Freight Buffer Time Index  Minutes of Truck Delay Per Trip Percent Interstate miles Level of Travel Time Reliability  Percent Non-Interstate NHS miles Level of Travel Time Reliability  The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  STIP and non-STIP planned projects that are let to contract on schedule  Total Individuals Provided Transportation Demand Management Program and Activity Support  Percentage of TIP Projects Completed On-time (Let to Construction) by Mode  Percentage of TIP Projects Built in the Time Period in Which They First Appeared  X X X X X X X X X X X X X X X X X X X  |                    | MPO            |   |                                  |                                       |                                |                         |
| Freight Movement & Economic Vitality  MPO  Reduced Project Delivery Delays  MPO  Freight Buffer Time Index Minutes of Truck Delay Per Trip Percent Interstate miles Level of Travel Time Reliability Percent Non-Interstate NHS miles Level of Travel Time Reliability The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  State (Highway)  Total Individuals Provided Transportation Demand Management Program and Activity Support  Percentage of TIP Projects Completed On-time (Let to Construction) by Mode Percentage of MTP Projects Built in the Time Period in Which They First Appeared  X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared X  |                    |                |   | X                                | X                                     | X                              | X                       |
| Freight Movement & Economic Vitality  MPO  Minutes of Truck Delay Per Trip Percent Interstate miles Level of Travel Time Reliability Percent Non-Interstate NHS miles Level of Travel Time Reliability The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  State (Highway)  MPO  Minutes of Truck Delay Per Trip Percent Non-Interstate miles Level of Travel Time Reliability X  The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  STIP and non-STIP planned projects that are let to contract on schedule  Total Individuals Provided Transportation Demand Management Program and Activity Support Percentage of TIP Projects Completed On-time (Let to Construction) by Mode Percentage of TIP Projects Built in the Time Period in Which They First Appeared  Percentage of TIP Projects Built in the Time Period in Which They First Appeared   |                    | (Highway)      | ·   | V                                |                                       |                                | <u> </u>                |
| Percent Interstate miles Level of Travel Time Reliability  Percent Non-Interstate NHS miles Level of Travel Time Reliability  The number of at-grade rail crossings  Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  State (Highway)  Total Individuals Provided Transportation Demand Management Program and Activity Support  Percentage of TIP Projects Completed On-time (Let to Construction) by Mode  Percentage of TIP Projects Built in the Time Period in Which They First Appeared  X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared   |                    |                |   |                                  |                                       |                                |                         |
| Reduced Project Delivery Delays    MPO   |                    | MPO            | ·   | Х                                | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |                                |                         |
| The number of at-grade rail crossings Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  State (Highway)  State (Highway)  Total Individuals Provided Transportation Demand Management Program and Activity X  Support  Percentage of TIP Projects Completed On-time (Let to Construction) by Mode  X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared  X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared   |                    |                | · · · · · · · · · · · · · · · · · · ·   |                                  |                                       |                                |                         |
| Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or other locations designated for targeted economic development  State (Highway)  State (Highway)  State (Highway)  Total Individuals Provided Transportation Demand Management Program and Activity Support  Percentage of TIP Projects Completed On-time (Let to Construction) by Mode  X  Percentage of MTP Projects Built in the Time Period in Which They First Appeared  X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared  |                    |                | ·   |                                  | X                                     |                                | V                       |
| Reduced Project Delivery Delays  MPO  State (Highway)  STIP and non-STIP planned projects that are let to contract on schedule  X  Total Individuals Provided Transportation Demand Management Program and Activity  Support  Percentage of TIP Projects Completed On-time (Let to Construction) by Mode  X  Percentage of MTP Projects Built in the Time Period in Which They First Appeared  X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared   |                    |                | Percentage of major transportation capacity projects that overlap with and/or provide access to designated Opportunity Zones, N.C. Industrial Commission Certified sites or |                                  |                                       |                                | X                       |
| Reduced Project Delivery Delays  MPO  Total Individuals Provided Transportation Demand Management Program and Activity Support  Percentage of TIP Projects Completed On-time (Let to Construction) by Mode X Percentage of MTP Projects Built in the Time Period in Which They First Appeared X Percentage of TIP Projects Built in the Time Period in Which They First Appeared X   |                    |                |   |                                  |                                       | Х                              |                         |
| Reduced Project Delivery Delays  MPO    Support  |                    | (Highway)      | Total Individuals Provided Transportation Demand Management Program and Activity  | X                                |                                       |                                |                         |
| Percentage of TIP Projects Built in the Time Period in Which They First Appeared X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared X   |                    |                | _ · ·   |                                  |                                       |                                |                         |
| Percentage of MTP Projects Built in the Time Period in Which They First Appeared X  Percentage of TIP Projects Built in the Time Period in Which They First Appeared X   |                    | MPO            |   |                                  |                                       |                                |                         |
| . Stockhold Stock Dame and the stock Dame and |                    |                |   |                                  |                                       |                                | <u> </u>                |
| Allowage Heridage Lieuned of Increating and his Rife -   |                    |                | Percentage of TIP Projects Built in the Time Period in Which They First Appeared  Average Payback Period of Investments by Mode   | X                                |                                       |                                | <del> </del>            |

<sup>\*</sup>The Kinston County, Carteret County, Johnston County, Jones County, and Lenoir County CTPs are not listed because they do not identify performance measures \*\*An "X" indicates the performance measure is included in the plan

<sup>&</sup>lt;sup>†</sup>The Capital Area MPO Website is included because it provides additional performance measures for the Research Triangle Region that are not included in the MTP



Table 8. County/MPO Performance Measures Established in the I-40/Future I-42/U.S. 70 Planning Area

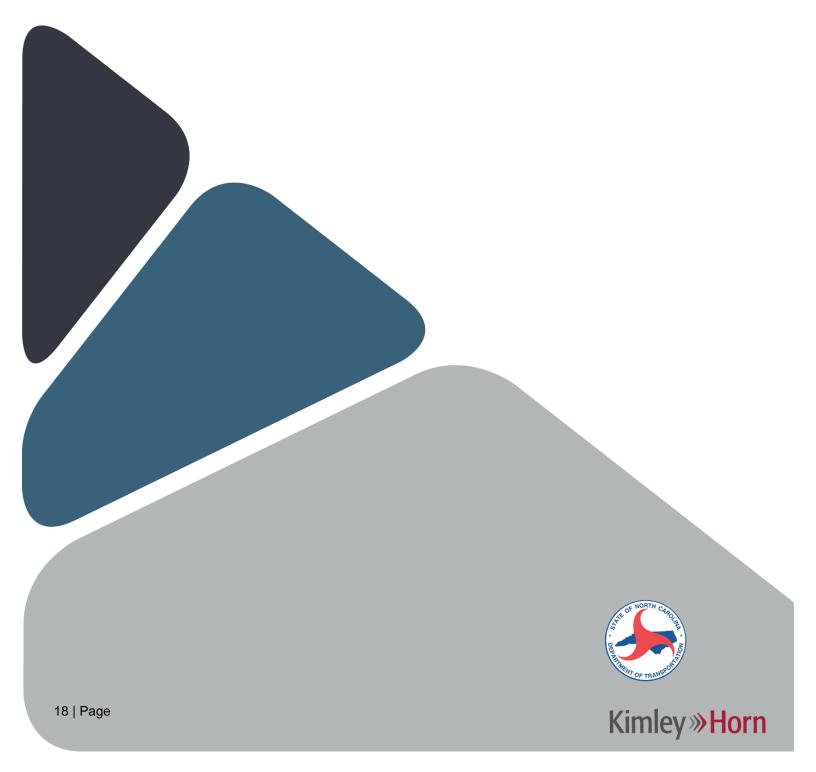
|                                  | enormance Measures Established in the 1-40/Future 1-42/0.S. 70 Planning Area  | Pla                              | ın*                     |
|----------------------------------|---|----------------------------------|-------------------------|
| County/MPO Goal Area             | Performance Measure   | Research Triangle Region's MTP** | New Bern Area MPO MTP** |
| 0.1                              | Number of activity centers (nodes) across the region designated as accessible (via walk and transit)  |                                  | Х                       |
| Cohesive and Strategic Planning  | Number of locally-adopted comprehensive plans   |                                  | Х                       |
|                                  | Percentage of major transportation capacity projects that align with locally adopted plans for growth areas   |                                  | Х                       |
| Mobility                         | Percentage of identified future economic development sites that can be potentially served by rail   |                                  | Х                       |
|                                  | 5-Year Average of Expenditures on Cycling/Walking Facilities  | Х                                |                         |
|                                  | Percentage of Work and Non-Work Trips by Transit That Take Less Than 45 Minutes   | Х                                |                         |
|                                  | Percentage of Cycling Facilities by Type (Bike Lanes, Shared Use Paths, Etc.) Rated in Good Condition   | Х                                |                         |
|                                  | Percentage of Peak Hour Travelers Driving Alone   | Х                                |                         |
|                                  | Percentage of Urbanized Area Within 1/4 Mile of Pedestrian Facilities   | Х                                |                         |
|                                  | Proportion of Jurisdictions with Ordinance Requirements for Sidewalk Construction or in-Lieu Fees   | Х                                |                         |
| Multi-Modal                      | Percentage of Adults Who Are Physically Active  | Х                                |                         |
|                                  | Amount and Percentage of Population and Jobs in "Travel Choice Neighborhoods:" Areas Accessible to Light Rail, Bus Rapid Transit, Commuter Rail and Frequent Bus Service (½ Mile to Stations, ¼ Mile to Frequent Bus Service) | Х                                |                         |
|                                  | Total Transit Boardings Per Capital   | Х                                |                         |
|                                  | Percentage of Bus Stops Meeting Defined Facility Criteria (E.G. Benches, Shelters, Arriving Bus Status)   | Х                                |                         |
|                                  | Per Capita Transit Service Hours  | Χ                                |                         |
|                                  | Transit, Cycling and Walking Mode Shares (Overall, in Transit Corridors, in Travel Choice Neighborhoods)  | Х                                |                         |
|                                  | Bicycle, pedestrian and transit access to passenger rail stations (metric to be refined)  |                                  | Х                       |
|                                  | Miles of existing sidewalks, bike facilities and greenways  |                                  | Х                       |
|                                  | Number of communities within the region recognized as Walk-Friendly or Bicycle-Friendly Communities   |                                  | Х                       |
|                                  | Funding for a follow-up study to identify bicycle and pedestrian network gaps   |                                  | Х                       |
|                                  | Residential and employment density in activity centers  |                                  | Х                       |
| Security                         | None  |                                  | Х                       |
|                                  | Number of Public Participants in Each Process by Type (In-Person, Email, Survey, Social Media)  | Х                                |                         |
|                                  | Percentage of Environmental Justice Population and Total Population Within ½ Mile of Bus Service, 1 Mile of Rail Service, ½ Mile of Bike Facilities or ¼ Mile of Sidewalk   | Х                                |                         |
|                                  | Amount and Percentage of Legally Binding Affordable Housing Units Located with ½ Mile of Transit Infrastructure Stations or Frequent Bus Service  | Х                                |                         |
| Socioeconomic and                | Number of Employees Working for Best Workplace for Commuters Employers  | Х                                |                         |
| Quality of Life                  | Environmental Justice Requirements Met by 2045 MTP  | Х                                |                         |
|                                  | Percentage of the region's block groups with a high EJ concern score located within ¼ mile of transit   |                                  | Х                       |
|                                  | Percentage of the region's key community resources including town halls, parks, libraries, post offices, K-12 schools, colleges, universities, health and social services offices and grocery stores within ¼ mile of transit |                                  | Х                       |
|                                  | Number of ADA transition plans for local communities completed or updated in the last 10 years  |                                  | Х                       |
| *The Kinston County Carteret Co. | unty Johnston County Jones County and Lenoir County CTPs are not listed because they do not identify performance measures   | The Cole                         | choro                   |

\*The Kinston County, Carteret County, Johnston County, Jones County, and Lenoir County CTPs are not listed because they do not identify performance measures. The Goldsboro Urban Area MPO MTP is not listed because all of its performance measures fit into the national/state goal areas.

\*\*An "X" indicates the performance measure is included in the plan

<sup>&</sup>lt;sup>†</sup>The Capital Area MPO Website is included because it provides additional performance measures for the Research Triangle Region that are not included in the MTP

# **Appendix A**





# **Appendix A. Facility Type and Control of Access**

#### A.1. NCDOT Facility Type

Roadways can be categorized into facility types based on their purpose, design classification, speed limit, and control of access. These facility types are listed below in **Table A-1**.

Table A-1. Highway Functional Class Definitions

|                                 | Freeways  | Expressways  | Boulevards   | Thoroughfares  |  |  |
|---------------------------------|---|--|--|--|--|--|
| Functional Purpose              | High Mobility, Low<br>Access  | High Mobility, Low to Moderate Access  | Moderate Mobility, Low to Moderate Access  | Moderate to Low<br>Mobility, High Access   |  |  |
| AASHTO Design<br>Classification | Interstate or Freeway   | Arterial   | Arterial or Collector  | Collector or Local   |  |  |
| Speed Limit                     | 55 mph or greater   | 45 mph to 60 mph   | 30 mph to 55 mph   | 25 mph to 55 mph   |  |  |
| Control of Access               | Full  | Limited or Partial   | Limited or Partial   | None   |  |  |
| Traffic Signals                 | Not Allowed   | Not Allowed  | Allowed  | Allowed  |  |  |
| Driveways                       | Not Allowed   | Connection per Parcel;<br>Consolidate and/or<br>Share Driveways and<br>Limit Access to<br>Connecting Streets or  | Limited Control of Access - Not Allowed Partial Control of Access - One Driveway Connection per Parcel; Consolidate and/or Share Driveways and Limit Access to Connecting Streets or Service Roads; Restrict to Right-in/Right-out | Allowed with Full<br>Movements;<br>Consolidate or Share<br>Connections, if possible  |  |  |
| Cross-Section                   | Minimum 4 Lanes with a Median   | Minimum 4 Lanes with a Median  | Minimum 2 Lanes with a Median  | Minimum 2 Lanes; No<br>Median; Includes<br>Facilities with Two Way<br>Left Turn Lane |  |  |
| Connections                     | Provided only at<br>Interchanges; All Cross<br>Streets are Grade-<br>Separated  | Provided only at<br>Interchanges for Major<br>Cross Streets and At-<br>Grade Intersections for<br>Minor Cross Streets;<br>Use of Acceleration and<br>Deceleration Lanes for<br>At-Grade Intersections  | At-Grade Intersections<br>for most Major and<br>Minor Cross Streets<br>(Occasional<br>Interchange at Major<br>Crossing); Use of<br>Acceleration and<br>Deceleration Lanes  | Primarily At-Grade<br>Intersections  |  |  |
| Median Crossovers               | Public-use Crossovers<br>Not Allowed; U-turn<br>Median Openings for<br>Use by Authorized<br>Vehicles Only when<br>Need is Justified | Allowed; Alternatives to<br>All Movement<br>Crossovers<br>Encouraged; Minimum<br>Spacing between All-<br>Movement Crossovers<br>is 2000 feet (posted<br>speed limit of greater<br>than 45 mph) or 1200<br>feet (posted speed limit<br>of 45 mph or less) | Allowed; Minimum<br>Spacing between All-<br>Movement Crossovers<br>is 2000 feet (posted<br>speed limit of greater<br>than 45 mph) or 1200<br>feet (posted speed limit<br>of 45 mph or less)  | Not Applicable   |  |  |

Information taken from NCDOT Facility Types & Control of Access Definitions (2005)



#### A.2. Highway Access Control

Roadways are categorized into different levels of control of access describing the amount of connectivity provided to adjacent land uses and other roadways. These levels are listed below in **Table A-2** in order of mobility function.

Table A-2. Control of Access Definitions

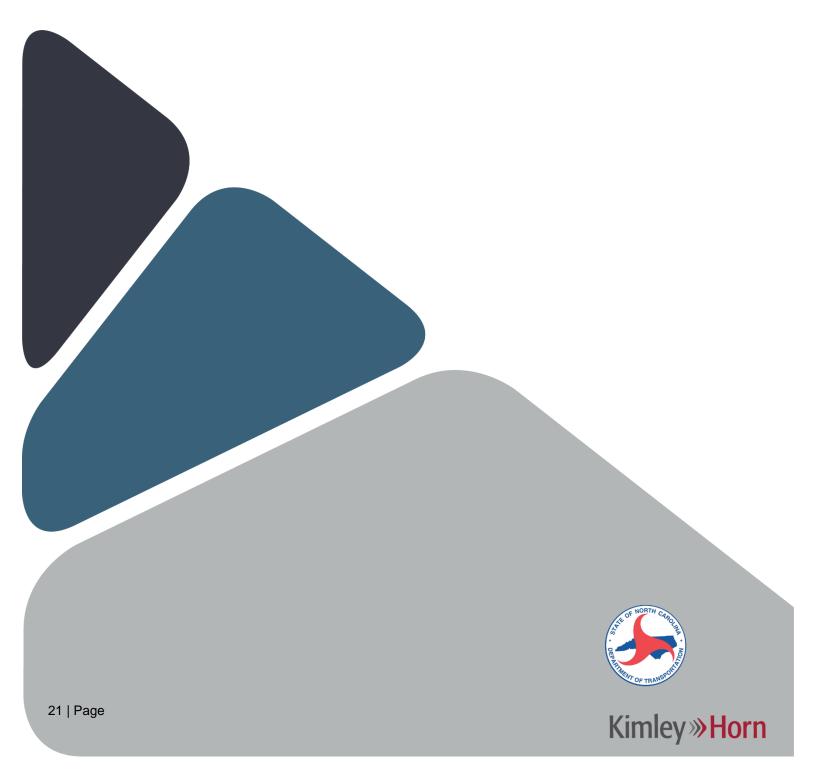
| Classification  | Description  |
|-----------------|--|
| Full Control    | Connectivity provided only via ramps at interchanges. All cross-streets are grade separated and no driveway connections are allowed. A control of access fence is placed along the entire length of the facility and at a minimum of 1000 feet beyond the ramp intersections on the minor facility at interchanges if possible.  |
| Limited Control | Connectivity provided only via ramps at interchanges for major crossings and at-grade intersections for minor crossings and service roads. No driveway connections allowed. A control of access fence is placed along the entire length of the facility, except at intersections, and at a minimum of 1000 feet beyond the ramp intersections on the minor facility at interchanges if possible.   |
| Partial Control | Connectivity provided via ramps at interchanges, at-grade intersections, and driveways. Private driveway connections are generally at a maximum of one per parcel. The use of shared or consolidated connections is highly encouraged, and connections may be restricted or prohibited if alternate access is available through adjacent public facilities. A control of access fence is placed along the entire length of the facility, except at intersections and driveways, and at a minimum of 1000 feet beyond the ramp terminals on the minor facility at interchanges if possible. |
| No Control      | Connectivity provided via ramps at interchanges, at-grade intersections, and driveways. No physical restrictions (i.e., a control of access fence) exist. Private driveway connections are generally at a maximum of one per parcel. Additional connections may be considered if they are justified and if such connections do not negatively impact traffic operations and public safety.   |

Information taken from NCDOT Facility Type & Control of Access Definitions:

https://connect.ncdot.gov/projects/planning/TPB%20Documents/NCDOT%20Facility%20Types%20-

%20Control%20of%20Access%20Definitions.pdf

# **Appendix B**





# **Appendix B. Goal Areas**

#### B.1. Goal Areas

The goals in this report are found at the national, state, and county/MPO levels. The national goal areas are set and defined by the FHWA and FTA. The county/MPO goal areas represent additional goals found in the MTPs and CTPs included this document that did not fit in a national goal area. The county/MPO goal areas are defined by NCDOT for the purposes of the STC Vision Plan development. These definitions of the goal areas are listed below in **Table B-1**.

Table B-1. Goal Area Definitions

| Goal Area                              | Definition   |  |  |  |
|--|--|--|--|--|
| National                               |  |  |  |  |
| Congestion Reduction                   | To achieve a significant reduction in congestion on the National Highway System.   |  |  |  |
| Environmental<br>Sustainability        | To enhance the performance of the transportation system while protecting and enhancing the natural environment.  |  |  |  |
| Freight Movement and Economic Vitality | To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.  |  |  |  |
|  | FHWA: To maintain the highway infrastructure asset system in a state of good repair.   |  |  |  |
| Infrastructure<br>Condition            | FTA: The strategic and systematic practice of procuring, operating, inspecting, maintaining, rehabilitating, and replacing transit capital assets to manage their performance, risks, and costs over their life cycles, for the purpose of providing safe, cost-effective, and reliable public transportation. |  |  |  |
| Safatu                                 | FHWA: To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.   |  |  |  |
| Safety                                 | FTA: To improve the safety of all public transportation systems that receive Federal financial assistance.   |  |  |  |
| System Reliability                     | To improve the efficiency of the surface transportation system.  |  |  |  |
| Reduced Project<br>Delivery Delays     | To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices.              |  |  |  |
| County/MPO                             |  |  |  |  |
| Cohesive and Strategic Planning        | To promote the integration of transportation, land use, and policy planning through the cooperation and communication between local and regional agencies.   |  |  |  |
| Mobility                               | To increase the transportation network's ability to move people and goods locally and regionally.  |  |  |  |
| Multi-Modal                            | Promote the ability to travel using a variety of transportation methods, such as walking, biking, and using transit, in addition to personal vehicle.  |  |  |  |
| Security                               | To enhance a transportation system that provides access to evacuation routes, facilitates disaster response, and protects access to military bases.  |  |  |  |
| Socioeconomic and Quality of Life      | To provide transportation options and access to destinations for all user groups regardless of socioeconomic status or physical ability.   |  |  |  |