

# Road Characteristics - Posted Routes, 2nd Quarter 2025 - NC Department of Transportation

## File Geodatabase Feature Class



### Tags

Transportation, SR, Roads, US, State maintained roads, Streets, NC, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, North Carolina, Division, County, Transportation Planning, Location, Posted Routes, Truck Restrictions

### Summary

This feature class contains lines representing designated secondary routes in North Carolina where truck traffic with axle weights exceeding 13,000 pounds is prohibited by ordinance. The data is represented as lines derived from the NCDOT Linear Reference System (LRS) network of routes via the NCRouteCharacteristics data set updated quarterly in support of Highway Performance Monitoring System (HPMS) reporting.

### Description

Posted routes in this data set pertain to secondary roads or sections of secondary roads where weight restrictions have been posted by the Department of Transportation (DOT) prohibiting heavy vehicle or equipment traffic-- specifically where trucks with axle weights exceeding 13,000 pounds are prohibited by ordinance. The ordinance number that applies to each road segment is provided in this data set as the PostedRoute attribute. These postings are important for ensuring the safety of drivers, passengers, and pedestrians, as well as preserving the condition of the road and nearby infrastructure. As roads are improved and strengthened, they may be removed from this list.

More information about North Carolina's Posted Roads can be found here:

<https://connect.ncdot.gov/resources/Asset-Management/Pages/Posted-Roads.aspx>

Detailed information regarding NCDOT ordinances, including truck restrictions, can be found here:

<https://connect.ncdot.gov/resources/safety/Pages/Safety-Ordinances.aspx>

A Posted and Restricted Roads lookup system can be accessed at this link:

<https://apps.ncdot.gov/PRR/RoadSearch.aspx>

### Credits

The North Carolina Department of Transportation, Division of Highways.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

### Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

This data is produced as a derivative of a reporting product out of the NCDOT Linear Referencing System, and is intended for visualization and reference use only. This is representative data only and is not designed for participation in data analysis or modelling. Use of this data is not analogous to integration with or alignment to NCDOT's Linear Referencing System.

## Extent

**West** -84.226540 **East** -76.056754

**North** 36.581589 **South** 33.812334

## Scale Range

**Maximum (zoomed in)** 1:5,000

**Minimum (zoomed out)** 1:625,000

## ArcGIS Metadata ▶

## Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE transportation, location, society

\* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina, Division, County

THESAURUS ▶

TITLE User

PUBLICATION DATE 2025-08-11 00:00:00

*Hide Thesaurus ▲*

THEME KEYWORDS Transportation, SR, Roads, US, State maintained roads, Streets, NC, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, North Carolina, Division, County, Transportation Planning, Location, Posted Routes, Truck Restrictions

THESAURUS ▶

TITLE User

PUBLICATION DATE 2025-08-11 00:00:00

*Hide Thesaurus ▲*

*Hide Topics and Keywords ▲*

## Citation ▶

TITLE Road Characteristics - Posted Routes, 2nd Quarter 2025 - NC Department of Transportation

ALTERNATE TITLES Posted Routes

PUBLICATION DATE 2025-08-11 00:00:00

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

*Hide Citation ▲*

## Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

HOURS OF SERVICE

9:00am - 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, indicate as such in the subject line in an email.

*Hide Contact information ▲*

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ►

DATASET LANGUAGES English (UNITED STATES)  
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS on-going  
SPATIAL REPRESENTATION TYPE vector

SUPPLEMENTAL INFORMATION

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\* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

The North Carolina Department of Transportation, Division of Highways.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

[Hide Resource Details ▲](#)

## Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.11613  
EAST LONGITUDE -75.593013  
SOUTH LATITUDE 33.792692  
NORTH LATITUDE 36.578571  
EXTENT CONTAINS THE RESOURCE Yes

VERTICAL EXTENT

\* MINIMUM VALUE -1.600000  
\* MAXIMUM VALUE 4248.800000

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.22654  
EAST LONGITUDE -76.025754  
SOUTH LATITUDE 33.812334  
NORTH LATITUDE 36.581591  
EXTENT CONTAINS THE RESOURCE Yes

VERTICAL EXTENT

- \* MINIMUM VALUE -1.600000
- \* MAXIMUM VALUE 4248.800000

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

- \* WEST LONGITUDE -84.226540
- \* EAST LONGITUDE -76.056754
- \* NORTH LATITUDE 36.581589
- \* SOUTH LATITUDE 33.812334
- \* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- \* WEST LONGITUDE 463720.270240
- \* EAST LONGITUDE 2864586.249664
- \* SOUTH LATITUDE 61840.380112
- \* NORTH LATITUDE 1030637.856352
- \* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical  
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27610  
COUNTRY US  
E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY quarterly

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

The North Carolina Department of Transportation, Division of Highways.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

#### MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE point of contact

#### CONTACT INFORMATION ►

##### ADDRESS

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

#### LEGAL CONSTRAINTS

##### LIMITATIONS OF USE

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#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

##### LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

## Spatial Reference ►

#### ARCgis COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet
- \* COORDINATE REFERENCE DETAILS

##### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719  
X ORIGIN -121841900  
Y ORIGIN -93659000  
XY SCALE 1893.9393939393938  
Z ORIGIN -100000  
Z SCALE 9.9999999999999982  
M ORIGIN -100000  
M SCALE 10000000  
XY TOLERANCE 0.00528  
Z TOLERANCE 0.200000000000000004  
M TOLERANCE 9.9999999999999995e-07

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 2264

VCSWKID 105703

LATESTVCSWKID 6360

##### WELL-KNOWN TEXT

PROJCS["NAD\_1983\_StatePlane\_North\_Carolina\_FIPS\_3200\_Feet",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert\_Conformal\_Conic"],PARAMETER["False\_Easting",2000000.002616666],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-79.0],PARAMETER["Standard\_Parallel\_1",34.33333333333334],PARAMETER["Standard\_Parallel\_2",36.16666666666666],PARAMETER["Latitude\_Of\_Origin",33.75],UNIT["Foot\_US",0.3048006096012192]],VERTCS["NAVD\_1988\_Foot\_US",VDATUM["North\_American\_Vertical\_Datum\_1988"],PARAMETER["Vertical\_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot\_US",0.3048006096012192]]

#### REFERENCE SYSTEM IDENTIFIER

- VALUE 2264
- \* CODESPACE EPSG
  - \* VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ▶

### VECTOR ▶

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

#### GEOMETRIC OBJECTS

FEATURE CLASS NAME RoadPostedRoute

\* OBJECT TYPE composite

\* OBJECT COUNT 1040

[Hide Vector ▲](#)

### ARCGIS FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME RoadPostedRoute

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polyline

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 1040

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING TRUE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Data Quality ▶

### SCOPE OF QUALITY INFORMATION ▶

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

### DATA QUALITY REPORT - COMPLETENESS COMMISSION ▶

#### MEASURE DESCRIPTION

Contributing editors are responsible for the quality control and assessment of data at the time of data entry. Additional resources may be utilized by the data owner/editor groups to assess quality of data on a more comprehensive scale. The primary tool in use for quality assessment in the NCDOT LRS Editing System is Esri's Data Reviewer extension. The quality of this data is subject to the oversight of the editing party.

#### CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass.

### PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

[Hide Product specification ▲](#)



[Hide Data quality report - Completeness commission ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶

MEASURE DESCRIPTION

Contributing editors are responsible for the quality control and assessment of data at the time of data entry. Additional resources may be utilized by the data owner/editor groups to assess quality of data on a more comprehensive scale. The primary tool in use for quality assessment in the NCDOT LRS Editing System is Esri's Data Reviewer extension. The quality of this data is subject to the oversight of the editing party.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

[Hide Product specification ▲](#)

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

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CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

[Hide Product specification ▲](#)

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

#### LINEAGE STATEMENT

This data set is derived from the NCRouteCharacteristics data and contains all current Posted Routes. This dataset was originally developed by the North Carolina Department of Transportation, Operations Program Management, in conjunction with the GIS Unit at NCDIT-T, to provide a geographic representation of secondary routes where truck traffic with axle weights exceeding 13,000 pounds is prohibited by ordinance in North Carolina. The GIS Unit modifies the LRS Network routes by creating, editing, or retiring based on official change notification from various NCDOT sources. Once the routes have been edited, business units may update their data as found on the routes based on the same or additional documentation. Web mapping services are created from some of the events. The LRS supports systems, web applications, and geospatial data needs across NCDOT business units, as well as submittal to the Federal Highway Administration's Highway Performance Monitoring System (HPMS).

#### PROCESS STEP

##### DESCRIPTION

Development and maintenance of NCDOT's Linear Referencing System. This includes the road centerline, route network, some events, and other related spatial data.

#### PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE originator

#### CONTACT INFORMATION

##### ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

##### HOURS OF SERVICE

9:00am - 5:00pm Monday - Friday

##### CONTACT INSTRUCTIONS

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

#### PROCESS STEP

##### DESCRIPTION

Routes are created, edited, and/or retired based on official change notification from various NCDOT sources. Road attribute-only information is also provided to the GIS Unit. Once the routes have been edited, business units may update their data as found on the routes based on the same or additional documentation.

#### PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

ADDRESS

TYPE physical  
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27610  
COUNTRY US  
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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Road attributes (event data) are referenced to the LRS network (routes). The event is edited by the NCDOT Division of Planning & Programming in an enterprise environment using Esri's online ArcGIS Event Editor software.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation, Operations Program Management  
CONTACT'S POSITION Road Inventory Engineer  
CONTACT'S ROLE processor

CONTACT INFORMATION ►

PHONE

VOICE 919-733-3725

ADDRESS

TYPE physical  
DELIVERY POINT 4809 Beryl Road  
CITY Raleigh  
ADMINISTRATIVE AREA NC  
POSTAL CODE 27606  
COUNTRY US  
E-MAIL ADDRESS [jtdavis@ncdot.gov](mailto:jtdavis@ncdot.gov)

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

The NCRouteCharacteristics data is produced, where this data is derived.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

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DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

## Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit  
CONTACT'S POSITION GIS Data and Services Consultant  
CONTACT'S ROLE user

CONTACT INFORMATION ►

ADDRESS

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DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive  
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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

#### DISTRIBUTION FORMAT

VERSION 10.8.1

\* NAME File Geodatabase Feature Class

[Hide Distribution ▲](#)

## Fields ►

#### DETAILS FOR OBJECT [RoadPostedRoute](#) ►

\* TYPE Feature Class

\* ROW COUNT 1040

##### DEFINITION

A system of designated secondary routes where truck traffic with axle weights exceeding 13,000 pounds is prohibited by ordinance

##### DEFINITION SOURCE

North Carolina Department of Transportation

#### FIELD [PostedRoute](#) ►

\* ALIAS PostedRoute

\* DATA TYPE String

\* WIDTH 20

\* PRECISION 0

\* SCALE 0

##### FIELD DESCRIPTION

A system of designated secondary routes where truck traffic with axle weights exceeding 13,000 pounds is prohibited by ordinance.

##### DESCRIPTION SOURCE

Federal Highway Administration/NCDOT GIS

##### DESCRIPTION OF VALUES

The ordinance number that pertains to the route segment. A hyphenated internal NCDOT ordinance number comprised of a two-digit truncation of the year the ordinance was enacted followed by a three-digit unique ID. Any value present indicates that the segment is part of the Posted Route system.

[Hide Field PostedRoute ▲](#)

#### FIELD [RouteQualifier](#) ►

\* ALIAS RouteQualifier

\* DATA TYPE String

\* WIDTH 5

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

An additional code that further defines the Dominant Route and is the 2nd digit in the 11 digit route number.

DESCRIPTION SOURCE

Federal Highway Administration/NCDOT GIS

LIST OF VALUES

VALUE 2

DESCRIPTION Bypass Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 6

DESCRIPTION West Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 0

DESCRIPTION Normal Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 7

DESCRIPTION Spur/Connector Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 8

DESCRIPTION Truck Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 82

DESCRIPTION Non-System Ramp

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 80

DESCRIPTION Ramp

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 9

DESCRIPTION Business Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 1

DESCRIPTION Alternate Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 89

DESCRIPTION Non-Mainline

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 5

DESCRIPTION East Route

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

VALUE 81

DESCRIPTION Rest Areas

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Qualifier Codes

[Hide Field RouteQualifier ▲](#)

FIELD **RouteClass** ▶

- \* ALIAS **RouteClass**
- \* DATA TYPE **String**
- \* WIDTH **5**
- \* PRECISION **0**
- \* SCALE **0**

FIELD DESCRIPTION

Route class code - dominant route classification

DESCRIPTION SOURCE

Federal Highway Administration/NCDOT GIS

LIST OF VALUES

VALUE **4**

DESCRIPTION **Secondary Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **9**

DESCRIPTION **Projected Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **3**

DESCRIPTION **NC Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **7**

DESCRIPTION **Federal Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **81**

DESCRIPTION **Rest Area**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **6**

DESCRIPTION **Other State Agency Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **89**

DESCRIPTION **Non-Mainline**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **82**

DESCRIPTION **Non-System Ramp**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **2**

DESCRIPTION **US Route**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **80**

DESCRIPTION **Ramp**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **5**

DESCRIPTION **Non-System**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **Valid Route Class Codes**

VALUE **1**

DESCRIPTION **Interstate**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Route Class Codes

[Hide Field RouteClass ▲](#)

FIELD [MaintCntyCode ▶](#)

- \* ALIAS MaintCntyCode
- \* DATA TYPE String
- \* WIDTH 3
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Maintenance county code - county responsible for maintenance and is the last 3 digits of the 11 digit route number.

DESCRIPTION SOURCE

NCDOT GIS

LIST OF VALUES

VALUE 008

DESCRIPTION Bertie

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 067

DESCRIPTION Onslow

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 017

DESCRIPTION Caswell

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 069

DESCRIPTION Pamlico

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 039

DESCRIPTION Granville

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 060

DESCRIPTION Mecklenburg

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 093

DESCRIPTION Warren

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 051

DESCRIPTION Johnston

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 086

DESCRIPTION Surry

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 098

DESCRIPTION Wilson

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 084

DESCRIPTION Stanly



ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 029  
DESCRIPTION Davidson  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 048  
DESCRIPTION Hyde  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 032  
DESCRIPTION Durham  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 006  
DESCRIPTION Avery  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 004  
DESCRIPTION Anson  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 090  
DESCRIPTION Union  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 061  
DESCRIPTION Mitchell  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 009  
DESCRIPTION Bladen  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 066  
DESCRIPTION Northampton  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 003  
DESCRIPTION Alleghany  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 092  
DESCRIPTION Wake  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 047  
DESCRIPTION Hoke  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 031  
DESCRIPTION Duplin  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 081  
DESCRIPTION Rutherford  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 023  
DESCRIPTION Cleveland  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 065  
DESCRIPTION New Hanover  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 094  
DESCRIPTION Washington  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 052  
DESCRIPTION Jones  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 096  
DESCRIPTION Wayne  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 100  
DESCRIPTION Yancey  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 074  
DESCRIPTION Pitt  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 024  
DESCRIPTION Columbus  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 033  
DESCRIPTION Edgecombe  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 099  
DESCRIPTION Yadkin  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 018  
DESCRIPTION Catawba  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 062  
DESCRIPTION Montgomery  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 002  
DESCRIPTION Alexander  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 019  
DESCRIPTION Chatham  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 063  
DESCRIPTION Moore  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 025  
DESCRIPTION Craven  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 030  
DESCRIPTION Davie

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 079

DESCRIPTION Rockingham

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 095

DESCRIPTION Watauga

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 038

DESCRIPTION Graham

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 007

DESCRIPTION Beaufort

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 034

DESCRIPTION Forsyth

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 014

DESCRIPTION Caldwell

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 020

DESCRIPTION Cherokee

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 027

DESCRIPTION Currituck

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 049

DESCRIPTION Iredell

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 021

DESCRIPTION Chowan

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 028

DESCRIPTION Dare

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 064

DESCRIPTION Nash

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 043

DESCRIPTION Harnett

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 058

DESCRIPTION Martin

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 057

DESCRIPTION Madison

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 037  
DESCRIPTION Gates  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 056  
DESCRIPTION Macon  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 005  
DESCRIPTION Ashe  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 068  
DESCRIPTION Orange  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 045  
DESCRIPTION Henderson  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 036  
DESCRIPTION Gaston  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 071  
DESCRIPTION Pender  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 083  
DESCRIPTION Scotland  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 042  
DESCRIPTION Halifax  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 077  
DESCRIPTION Richmond  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 085  
DESCRIPTION Stokes  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 044  
DESCRIPTION Haywood  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 050  
DESCRIPTION Jackson  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 035  
DESCRIPTION Franklin  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 076  
DESCRIPTION Randolph  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 082  
DESCRIPTION Sampson

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 070  
DESCRIPTION Pasquotank  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 022  
DESCRIPTION Clay  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 087  
DESCRIPTION Swain  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 016  
DESCRIPTION Carteret  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 089  
DESCRIPTION Tyrrell  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 013  
DESCRIPTION Cabarrus  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 001  
DESCRIPTION Alamance  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 088  
DESCRIPTION Transylvania  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 072  
DESCRIPTION Perquimans  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 054  
DESCRIPTION Lenoir  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 012  
DESCRIPTION Burke  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 059  
DESCRIPTION McDowell  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 073  
DESCRIPTION Person  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 026  
DESCRIPTION Cumberland  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 080  
DESCRIPTION Rowan  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 040  
DESCRIPTION Greene  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 055  
DESCRIPTION Lincoln  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 053  
DESCRIPTION Lee  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 015  
DESCRIPTION Camden  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 041  
DESCRIPTION Guilford  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 010  
DESCRIPTION Brunswick  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 011  
DESCRIPTION Buncombe  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 097  
DESCRIPTION Wilkes  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 075  
DESCRIPTION Polk  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 091  
DESCRIPTION Vance  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 046  
DESCRIPTION Hertford  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

VALUE 078  
DESCRIPTION Robeson  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Sap County Code

*Hide Field MaintCntyCode ▲*

FIELD **RouteInventory** ►

- \* ALIAS RouteInventory
- \* DATA TYPE String
- \* WIDTH 1
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

The NCDOT Route Direction for Dominant Route and is the 3rd digit of the 11 digit route number.

DESCRIPTION SOURCE

## NCDOT GIS

### LIST OF VALUES

VALUE 4

DESCRIPTION Non-Inventory (Southbound)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

VALUE 9

DESCRIPTION Non-Inventory (Counter-Clockwise)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

VALUE 6

DESCRIPTION Non-Inventory (Westbound)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

VALUE 8

DESCRIPTION Inventory (Clockwise)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

VALUE 0

DESCRIPTION Inventory

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Inventory Codes

*Hide Field RouteInventory ▲*

### FIELD RouteId ►

\* ALIAS RouteId

\* DATA TYPE String

\* WIDTH 15

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Route Identifier for Dominant Route. the 11 digit composite route number.

More information explaining this route naming convention used by NCDOT is available here:

<https://xfer.services.ncdot.gov/gisdot/DistDOTData/Guide%20to%20the%20NCDOT%20Eleven-Digit%20Route%20Number%20-%20Rome%20Implementation.pdf>

#### DESCRIPTION SOURCE

NCDOT GIS

#### DESCRIPTION OF VALUES

Positive 11 digit numbers.

*Hide Field RouteId ▲*

### FIELD RouteNumber ►

\* ALIAS RouteNumber

\* DATA TYPE String

\* WIDTH 5

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Route number.

#### DESCRIPTION SOURCE

Federal Highway Administration/NCDOT GIS

DESCRIPTION OF VALUES

Positive real numbers that are manually generated

*Hide Field RouteNumber ▲*

FIELD OBJECTID ►

- \* ALIAS OBJECTID
- \* DATA TYPE OID
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Internal feature number.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

*Hide Field OBJECTID ▲*

FIELD Direction ►

- \* ALIAS Direction
- \* DATA TYPE String
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Indicates the actual direction of the route.

DESCRIPTION SOURCE

NCDOT GIS

LIST OF VALUES

VALUE EB

DESCRIPTION Eastbound

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE CC

DESCRIPTION Counterclockwise

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE NB

DESCRIPTION Northbound

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE SB

DESCRIPTION Southbound

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE CW

DESCRIPTION Clockwise



ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE WB

DESCRIPTION Westbound

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE BD

DESCRIPTION Bidirectional

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE OI

DESCRIPTION Oneway Inventory

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

VALUE OO

DESCRIPTION Oneway Opposite

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Valid Direction values.

*Hide Field Direction ▲*

FIELD SHAPE ►

\* ALIAS Shape

\* DATA TYPE Geometry

\* WIDTH 0

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Coordinates defining the features.

*Hide Field SHAPE ▲*

FIELD BeginMp ►

\* ALIAS BeginMp

\* DATA TYPE Double

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Beginning Milepost for Dominant Route.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Numbers; six decimals.

*Hide Field BeginMp ▲*

FIELD EndMp ▶

- \* ALIAS EndMp
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

The ending milepost for route at that point on the segment.

DESCRIPTION SOURCE

NCDOT GIS

DESCRIPTION OF VALUES

Numbers; six decimals.

*Hide Field EndMp ▲*

FIELD SHAPE\_Length ▶

- \* ALIAS Shape\_Length
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION

Length of feature in internal units.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

*Hide Field SHAPE\_Length ▲*

*Hide Details for object RoadPostedRoute ▲*

*Hide Fields ▲*

## Metadata Details ▶

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME \* dataset

\* LAST UPDATE 2025-07-21

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE ISO 19139 Metadata Implementation Specification

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2025-07-21 11:11:58

LAST MODIFIED IN ARCGIS FOR THE ITEM 2025-07-21 14:52:10

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2025-07-21 14:52:10

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS [gishelp@ncdot.gov](mailto:gishelp@ncdot.gov)

HOURS OF SERVICE

9:00am - 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY quarterly

SCOPE OF THE UPDATES dataset

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610  
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[Hide Contact information ▲](#)

[Hide Metadata Maintenance ▲](#)

## Metadata Constraints ►

#### SECURITY CONSTRAINTS

CLASSIFICATION unclassified  
CLASSIFICATION SYSTEM None

#### LIMITATIONS OF USE

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

This data is produced as a derivative of a reporting product out of the NCDOT Linear Referencing System, and is intended for visualization and reference use only. This is representative data only and is not designed for participation in data analysis or modelling. Use of this data is not analogous to integration with or alignment to NCDOT's Linear Referencing System.

#### CONSTRAINTS

##### LIMITATIONS OF USE

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[Hide Metadata Constraints ▲](#)