

Road Characteristics - Access Control, 1st Quarter 2026 - NC Department of Transportation

Geodatabase Feature Class



Tags Access, SR, Roads, US, State maintained roads, Streets, NC, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, Transportation, North Carolina, Division, County

Summary

This feature class contains lines representing North Carolina state-maintained highways where there is either partial or full access control. Access control refers to the management and regulation of through-movement traffic to ensure safe and efficient flow. 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

This feature class is a representation of a subset of North Carolina roads and highways where Access Control is described as partial or full.

Proper management of traffic Access Control helps prevent accidents, reduces the chances of traffic bottlenecks, and contributes to a smoother and safer driving experience for motorists and pedestrians.

Roads with Partial Access Control: Preference is given to through-traffic movement. There may be a mix of interchanges, with at-grade crossings on public roads. There also may be no interchanges, but instead direct, private driveway connections have been minimized through the use of frontage roads or other local access restrictions. Control of curb cuts is not "access control."

Roads with Full Access Control: Road has complete access control. Preference has been given to through traffic movements by providing interchanges with selected roads. No at-grade intersections are allowed.

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 -84.090439

East -75.594766

North 36.578568

South 33.793726

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

Topics and Keywords

Themes or categories of the resource Transportation, Location, Society

Content type Downloadable Data

Theme keywords Access, SR, Roads, US, State maintained roads, Streets, NC, Interstate, Major Roads, Centerline, Primary, Secondary, Highways, Transportation, North Carolina, Division, County

Thesaurus

Title User

Publication date 2026-05-04 00:00:00

Place keywords North Carolina, Division, County

Thesaurus

Title User

Publication date 2026-05-04 00:00:00

Citation

Title Road Characteristics - Access Control, 1st Quarter 2026 - NC Department of Transportation

Alternate titles Route Access Control

Publication date 2026-05-04 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - originator

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

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
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.

Responsible party - resource provider

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit
Contact's position GIS Data and Services Consultant

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Responsible party - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit
Contact's position GIS Data and Services Consultant

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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.

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 -4.800000

Maximum value 6051.800000

Extent

Geographic extent

Bounding rectangle

West longitude -84.090438

East longitude -75.594766

South latitude 33.793726
North latitude 36.578566
Extent contains the resource Yes

Vertical extent

Minimum value -4.800000
Maximum value 6051.800000

Extent

Geographic extent

Bounding rectangle

Extent type Extent used for searching
West longitude -84.090439
East longitude -75.594766
North latitude 36.578568
South latitude 33.793726
Extent contains the resource Yes

Extent in the item's coordinate system

westBL 503740.254640
eastBL 3000433.659472
southBL 53044.609744
northBL 1029537.737200
exTypeCode Yes

Resource Points of Contact

Point 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 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

Hours of service

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

Contact instructions

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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 - point of contact

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

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

Hours of service

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Contact instructions

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Resource Constraints

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

Classification system None

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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

ProjectedCoordinateSystem

WKID 102719

XOrigin -121841900

YOrigin -93659000

XYScale 1893.9393939393938

ZOrigin -100000

ZScale 9.999999999999982

MOrigin -100000

MScale 10000000

XYTolerance 0.00528

ZTolerance 0.20000000000000004

MTolerance 9.999999999999995e-07

HighPrecision true

LatestWKID 2264

VCSWKID 105703

LatestVCSWKID 6360

WKT

```
PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["79.0"],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666
```

Reference system identifier

Value 2264
Codespace EPSG
Version 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only

Geometric objects

Feature class name RoadAccessControl
Object type composite
Object count 1727

ArcGIS Feature Class Properties

Feature class name RoadAccessControl
Feature type Simple
Geometry type Polyline
Has topology FALSE
Feature count 1727
Spatial index TRUE
Linear referencing TRUE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Completeness commission

Data quality measure reference

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

Data quality report - Conceptual consistency

Data quality measure reference

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

Data quality report - Quantitative attribute accuracy

Data quality measure reference

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

Lineage

Lineage statement

This data set is derived from the NCRouteCharacteristics data and contains lines representing North Carolina state-maintained highways where there is either partial or full access control.

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 partial or full road access control 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 - originator

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

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

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.

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 - resource provider

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit

Contact's position GIS Data and Services Consultant

Contact information

Address

Type physical

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Administrative area NC

Postal code 27610

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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 - processor

Organization's name North Carolina Department of Transportation, Operations Program Management

Contact's position Road Inventory Engineer

Contact information

Phone

Voice 919-733-3725

Address

Type physical

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City Raleigh

Administrative area NC

Postal code 27606

e-mail address jtdavis@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, please call the contact number or indicate as such in the subject line in an email.

Process step

Description

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

Process 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 information

Address

Type physical

Delivery point Century Center Building B, 1020 Birch Ridge Drive

City Raleigh
Administrative area NC
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e-mail address gishelp@ncdot.gov

Hours of service

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

Contact instructions

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Distribution

Distributor

Contact information - distributor

Organization's name North Carolina Department of Information Technology -Transportation, GIS Unit
Contact's position GIS Data and Services Consultant

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

Hours of service

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Contact instructions

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Distribution format

Version 10.8.1
Name File Geodatabase Feature Class

Fields

Details for object RoadAccessControl

Type Feature Class
Row count 1727
Definition

Definition source

North Carolina Department of Transportation

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. Used only for US-19 West, which is a different route than US-19.

Enumerated domain value definition source Valid Route Qualifier Codes

Value 0

Description Normal Route. On most routes this indicates it is the normal route. If the route class is FED, then 0 (Normal) is the Blue Ridge Parkway.

Enumerated domain value definition source Valid Route Qualifier Codes

Value 7

Description Spur/Connector Route. If the Route Class is Interstate, then the route is a spur. If the Route Class is US or NC Route then the route is a connector.

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 RouteAlternate Route. If the route class is FED, 1 (Alternative) is military-

owned.

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. Used only for US-19 East, which is a different route than US-19.

Enumerated domain value definition source Valid Route Qualifier Codes
Value 81

Description Rest Areas

Enumerated domain value definition source Valid Route Qualifier Codes

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

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 Value 051	Valid Sap County Code
Description Johnston	
Enumerated domain value definition source Value 086	Valid Sap County Code
Description Surry	
Enumerated domain value definition source Value 098	Valid Sap County Code
Description Wilson	
Enumerated domain value definition source Value 084	Valid Sap County Code
Description Stanly	
Enumerated domain value definition source Value 029	Valid Sap County Code
Description Davidson	
Enumerated domain value definition source Value 048	Valid Sap County Code
Description Hyde	
Enumerated domain value definition source Value 032	Valid Sap County Code
Description Durham	
Enumerated domain value definition source Value 006	Valid Sap County Code
Description Avery	
Enumerated domain value definition source Value 004	Valid Sap County Code
Description Anson	
Enumerated domain value definition source Value 090	Valid Sap County Code
Description Union	
Enumerated domain value definition source Value 061	Valid Sap County Code
Description Mitchell	
Enumerated domain value definition source Value 009	Valid Sap County Code
Description Bladen	
Enumerated domain value definition source Value 066	Valid Sap County Code
Description Northampton	
Enumerated domain value definition source Value 003	Valid Sap County Code
Description Alleghany	
Enumerated domain value definition source Value 092	Valid Sap County Code
Description Wake	
Enumerated domain value definition source Value 047	Valid Sap County Code

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 Value 043	Valid Sap County Code
Description Harnett	
Enumerated domain value definition source Value 058	Valid Sap County Code
Description Martin	
Enumerated domain value definition source Value 057	Valid Sap County Code
Description Madison	
Enumerated domain value definition source Value 037	Valid Sap County Code
Description Gates	
Enumerated domain value definition source Value 056	Valid Sap County Code
Description Macon	
Enumerated domain value definition source Value 005	Valid Sap County Code
Description Ashe	
Enumerated domain value definition source Value 068	Valid Sap County Code
Description Orange	
Enumerated domain value definition source Value 045	Valid Sap County Code
Description Henderson	
Enumerated domain value definition source Value 036	Valid Sap County Code
Description Gaston	
Enumerated domain value definition source Value 071	Valid Sap County Code
Description Pender	
Enumerated domain value definition source Value 083	Valid Sap County Code
Description Scotland	
Enumerated domain value definition source Value 042	Valid Sap County Code
Description Halifax	
Enumerated domain value definition source Value 077	Valid Sap County Code
Description Richmond	
Enumerated domain value definition source Value 085	Valid Sap County Code
Description Stokes	
Enumerated domain value definition source Value 044	Valid Sap County Code
Description Haywood	
Enumerated domain value definition source Value 050	Valid Sap County Code

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

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

Field Routeld

Alias Routeld

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.

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

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.

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.

Field AccessControl

Alias AccessControl

Data type String

Width 10

Precision 0

Scale 0

Field description

Indicates degree of control of through traffic movements on a route. No data indicates that the section of road has no access control, meaning that traffic moves freely through intersecting roads and driveways.

Description source

NCDOT

List of values

Value Partial

Description Road has partial access control. Preference is given to through traffic movement. There may be a mix of interchanges, with at-grade crossings at public roads. There also may be no interchanges, but instead direct, private driveway connections have been minimized through the use of frontage roads or other local access restriction. Control of curb cuts is not access control.

Enumerated domain value definition source NCDOT

Value Full

Description Road has complete access control. Preference has been given to through traffic movements by providing interchanges with selected roads. No at-grade intersections are allowed.

Enumerated domain value definition source NCDOT

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.

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

Values vary.

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

Description of values

Numbers; six decimals

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.

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 2026-04-16

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 2026-04-15 10:54:00

Last modified in ArcGIS for the item 2026-04-16 10:11:47

Automatic updates

Have been performed Yes

Last update 2026-04-16 10:11:24

Metadata Contacts

Metadata 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 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
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.

Metadata Maintenance

Maintenance

Update frequency quarterly
Scope of the updates dataset

Metadata Constraints

Security constraints

Classification unclassified
Classification system None

Limitations of use

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file