

# NC Milepost Zero Marker for Routes with Hatching at 0.01 Mile Intervals, 1st Quarter 2026 - NC Department of Transportation

## Geodatabase Feature Class



**Tags** Roads, North Carolina, NCDOT, State Highway Network, Measure, Milepost Zero, Route Beginning Point, Hatch Interval, Milepost, Transportation, Highway, Routes, Location, Streets, Interstate, US Route, NC Route Secondary Route

### Summary

This layer provides points representing the beginning point—milepost zero—for routes where hatch lines are generated that represent hundredth-mile intervals along the NCDOT Road Network. Each hatch line contains the hundredth-of-a-mile Milepost value from this beginning point of a route. The Route ID attribute value is also included.

### Description

This data provides the display for zero milepost values along public roads, excluding non-system/local roads, in North Carolina where hatch lines have been generated along their length. This can accompany the hundredth-of-a-mile interval hatch lines data. The zero milepost points and hatch intervals are created off the NC Public Road Arcs publication product. NC Public Road Arcs is a route publication product derived using an internal procedure designed to generate reporting products from the Linear Referencing System (LRS).

NCDOT adopted the road centerline based LRS Network as its official Enterprise LRS, to which multiple road inventory attributes are referenced along measured routes throughout North Carolina. These routes are classified as either System or Non-System routes. System routes are routes within the state-maintained road network, and are comprised of Interstates, US Routes, NC Routes, Secondary Routes, Ramps, and Non-System Routes. Non-System routes are routes that are typically not maintained by NCDOT, but instead by a local agency (county, city or MPO/RPO). The local agency is the source for updating these Non-System routes in NCDOT's LRS. The route classification is recorded in the RteClass field in this data set; see field values and descriptions in the metadata Fields Section.

### Credits

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group – System geometry, mileage.

### 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** -84.382849

**East** -75.423365

**North** 36.585357

**South** 33.783450

## Scale Range

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

**Minimum (zoomed out)** 1:50,000

## Topics and Keywords

**Themes or categories of the resource** Location, Society, Transportation

**Content type** Downloadable Data

**Theme keywords** Point, Roads, NCDOT, State Highway Network, Measure, Hatch Interval, Milepost, Milepost Zero, Route Beginning Point Transportation, Highway, Routes, Location, Streets, Interstate, US Route, NC Route Secondary Route

### Thesaurus

**Title** User

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

**Place keywords** North Carolina

### Thesaurus

**Title** User

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

## Citation

**Title** NC Milepost Zero Marker for Routes with Hatching at 0.01 Mile Intervals, 1st Quarter 2026 - NC Department of Transportation

**Alternate titles** Milepost\_Zero\_Marker\_001

**Creation date** 2026-04-13 00:00:00

**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, please 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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#### Address

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**Country** US  
**e-mail address** gishelp@ncdot.gov  
**Hours of service**  
9:00am - 5:00pm Monday – Friday

### Contact instructions

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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

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group – System geometry, mileage.

## Extents

### Extent

#### Geographic extent

##### Bounding rectangle

**Extent type** Extent used for searching  
**West longitude** -84.382849  
**East longitude** -75.423365  
**North latitude** 36.585357  
**South latitude** 33.783450  
**Extent contains the resource** Yes

### Extent in the item's coordinate system

**westBL** 417760.666528  
**eastBL** 3050743.418224

**southBL** 53692.142080  
**northBL** 1032009.939856  
**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

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## Resource Maintenance

### Resource maintenance

**Update frequency** quarterly

**Scope of the updates** dataset

#### Other maintenance requirements

NC Department of Information Technology-Transportation (NCDIT-T), GIS Unit, Spatial Data Management Group and Geospatial Services Group - Product creation; NCDIT-T, GIS Unit, Spatial Data Operations Group – System geometry, mileage.

### 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

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## Resource Constraints

### Constraints

#### Limitations of use

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## Legal constraints

#### Limitations of use

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## Security constraints

**Classification** unclassified

**Classification system** None

#### Limitations of use

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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["NAD83",SPHEROID["GRS80",6378137,298.257223563]],PRIMARIES["North\_American\_1983",34.33333333333334],PARAMETER["Standard\_Parallel\_1",34.33333333333334],PARAMETER["Standard\_Parallel\_2",36.16666666666667],PARAMETER["False\_Easting",500000],PARAMETER["False\_Northing",500000],PARAMETER["Scale\_Factor",1],UNIT["Foot",0.3048]]]

### 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** Milepost\_Zero\_Marker\_001

**Object type** point

**Object count** 5094

### ArcGIS Feature Class Properties

**Feature class name** Milepost\_Zero\_Marker\_001

**Feature type** Simple

**Geometry type** Point

**Has topology** FALSE  
**Feature count** 5094  
**Spatial index** TRUE  
**Linear referencing** FALSE

## Data Quality

### Scope of quality information

**Resource level** dataset

### Data quality report - Completeness commission

#### Data quality measure reference

##### Measure description

After processing, the dataset is checked for drawing display and number of records and file sizes compared with source materials.

#### Conformance test results

**Test passed** Yes

##### Result explanation

Pass

#### Product specification

**Title** NCDOT Geospatial Data Specifications  
**Creation date** 2026-04-13 00:00:00  
**Publication date** 2026-05-04 00:00:00

### Data quality report - Conceptual consistency

#### Data quality measure reference

##### Measure description

This dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired.

#### Conformance test results

**Test passed** Yes

##### Result explanation

Pass.

#### Product specification

**Title** NCDOT Geospatial Data Specifications  
**Creation date** 2026-04-13 00:00:00  
**Publication date** 2026-05-04 00:00:00

### Data quality report - Quantitative attribute accuracy

#### Data quality measure reference

## Measure description

The source data was checked using standard review procedures. Attributes were checked by using visual inspection as well as automated verification routines. Geometry checks were conducted using Esri's Data Reviewer tool.

## Conformance test results

**Test passed** Yes

### Result explanation

Pass.

## Product specification

**Title** NCDOT Geospatial Data Specifications

**Creation date** 2026-04-13 00:00:00

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

## Lineage

### Lineage statement

This data is created using an automated process designed to generate feature classes with points representing the beginning milepost zero on the NCDOT Road Network of routes. The publication product NC Public Road Arcs is used as the input for the application to generate the beginning point (milepost zero) of a route. NC Public Road Arcs is a route publication product derived using an internal procedure designed to generate reporting products from the Linear Referencing System maintained by the Spatial Data Operations Group within the North Carolina Department of Information Technology- Transportation, GIS Unit.

## Process step

**When the process occurred** 2024-01-20 00:00:00

### Description

Data Conversion Group maintains the NCDOT LRS in a geodatabase.

## 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, please indicate as such in the subject line in an email.

## Process step

**When the process occurred** 2024-01-29 00:00:00

### Description

Run internal program to create NC Public Road Arcs product.

## 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

**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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## Process step

**When the process occurred** 2024-02-08 00:00:00

### Description

Run internal, automated process to generate feature classes of beginning points at milepost zero along routes.

## 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

**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

### 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

9:00am - 5:00pm Monday – Friday

### Contact instructions

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## Distribution format

**Version** 10.8.1

**Name** File Geodatabase Feature Class

## Fields

### Details for object Milepost\_Zero\_Marker\_001

**Type** Feature Class

**Row count** 5094

#### Definition

NC Milepost Zero Marker for Routes with Hatching at 0.01 Mile Intervals

#### Definition source

North Carolina Department of Transportation

## 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 RteClass

**Alias** RteClass

**Data type** String

**Width** 3

**Precision** 0

**Scale** 0

### Field description

The NCDOT route class code for dominant route.

### Description source

NCDOT

## List of values

**Value** 1

**Description** Interstate (I)

**Enumerated domain value definition source** NCDOT

**Value** 2

**Description** US Route (US)

**Enumerated domain value definition source** NCDOT

**Value** 3

**Description** NC Route (NC)

**Enumerated domain value definition source** NCDOT

**Value** 4

**Description** Secondary Route (SR)

**Enumerated domain value definition source** NCDOT

**Value** 5

**Description** Non-System (NS)

**Enumerated domain value definition source** NCDOT

**Value** 6

**Description** Other State Agency Route (SA)

<b>Enumerated domain value definition source</b>	NCDOT
<b>Value</b>	7
<b>Description</b>	Federal Route (FED)
<b>Enumerated domain value definition source</b>	NCDOT
<b>Value</b>	80
<b>Description</b>	Ramp (RMP)
<b>Enumerated domain value definition source</b>	NCDOT
<b>Value</b>	81
<b>Description</b>	Rest Areas (RST)
<b>Enumerated domain value definition source</b>	NCDOT
<b>Value</b>	82
<b>Description</b>	Non-System Ramp
<b>Enumerated domain value definition source</b>	NCDOT
<b>Value</b>	9
<b>Description</b>	Projected (PRJ)
<b>Enumerated domain value definition source</b>	NCDOT

## Field Rteld

**Alias** Rteld  
**Data type** String  
**Width** 11  
**Precision** 0  
**Scale** 0

### Field description

The NCDOT eleven-digit number for each route in the network. 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

### Description of values

Values vary.

## Field Milepost

**Alias** Milepost  
**Data type** String  
**Width** 10  
**Precision** 0  
**Scale** 0

### Field description

Milepost of the beginning point (milepost 0) of the route.

### Description source

NCDOT

## Description of values

Zero.

### Field RoadAngle

**Alias** RoadAngle

**Data type** SmallInteger

**Width** 2

**Precision** 0

**Scale** 0

#### Field description

Angle of the route at the point of the beginning milepost.

#### Description source

NCDOT

#### Range of values

**Minimum value** -180

**Maximum value** 180

### 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.

## 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** 2026-04-21

## 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** 2026-04-15 15:19:16

**Last modified in ArcGIS for the item** 2026-04-21 15:51:35

### Automatic updates

**Have been performed** Yes

**Last update** 2026-04-21 15:51:15

## 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

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**Delivery point** Century Center Building B, 1020 Birch Ridge Drive

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## Metadata Maintenance

### Maintenance

**Update frequency** quarterly

**Scope of the updates** dataset

#### 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

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## **Metadata Constraints**

### **Constraints**

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### **Security constraints**

**Classification** unclassified

**Classification system** None

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## **Thumbnail and Enclosures**

### **Thumbnail**

#### **Thumbnail type**

Image file