

NC Proposed Utility Gas Line, Continuous Capture – NC Department of Transportation

File Geodatabase Feature Class



Tags

Line, North Carolina, NCDOT, Transportation, Right of Way, Highway, Transportation Planning, Location, Acquisition, Utility, Gas, Property, ROW.

Summary

This feature class contains line representation of proposed gas utilities in which NCDOT acquisition, in part, may be necessary for road construction or improvement. Attributes containing NCDOT Project and Parcel ID are included. These data support the NCDOT Right Of Way Management System which allows for the continuous capture of right of way data. The data entered are the latest available to the NCDOT Right Of Way Branch, but data currency may vary across the system.

Description

The Right of Way Branch of NCDOT is responsible for the acquisition of all necessary lands and rights of way used for construction and improvements of all highways which are part of the State Highway System. This includes roads on both the primary (interstate, U.S., and N.C. routes) and secondary (SR routes) systems. Purchasing land for other public modes of transportation is also required for expansion and to accommodate increased demand.

Multiple facets make up the Right of Way business process from early NCDOT project development to appraisals and land purchases. NCDOT's "Understanding the Right of Way Process" document provides more information here:

<https://connect.ncdot.gov/business/ROW/ROWManualsandPublications/Right-of-Way-Brochure-Single%20Page%20layout.pdf>

The Right of Way Management System (ROWMS) is a web-based application that captures Right of Way (ROW) information and documents, provides workflow and reporting capabilities, and interfaces with internal systems. ROWMS supports NC legislative mandates requiring Right of Way to have a role-based, data management system used by all projects.

A major benefit ROWMS provides is a 25% workflow cycle time reduction. It also facilitates process standardization, cross-department integration, collaboration across the organization, a detailed audit trail, and contractor integration. ROWMS integrates systems such as SAP (Vendors, Invoices, POs, Asset Management, etc.), SharePoint (public documents and deeds), DocuSign (electronic signatures, eNotary), and GIS.

The GIS Unit of the North Carolina Department of Information Technology-Transportation (NCDIT-T) has developed a process to convert the Right of Way Unit's original DGN/CAD files into a GIS format, that can then be managed and disseminated to meet the ROWMS project needs. These are adjacent and nearby critical features such as existing roads, buildings, utilities, and property, affected or impacted in some way due to NCDOT's state highway system construction or improvement projects. Proposed features for ROW acquisition, proposed roads and related features are also included. This ROW data can be viewed overlaying maps in the application. The GIS capability of ROWMS enables management and dissemination of Right of Way-based spatial data.

Credits

The North Carolina Department of Transportation, Division of Highways, Right of Way Unit.

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.

All Right of Way data is the sole property of NCDOT and any public purpose use is subject to approval and release by NCDOT. No data, whole or in part, shall be released, published, or shared without prior written approval by NCDOT. No information concerning the data shall be divulged to anyone outside the proper officials at NCDOT or the Federal Highway Administration. All Right of Way data is strictly confidential to NCDOT and its approved contractors.

Extent

There is no extent for this item.

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:50,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE location, planningCadastre, society, transportation, utilitiesCommunication

* **CONTENT TYPE** Downloadable Data

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

CREATION DATE 2018-09-13 00:00:00

PUBLICATION DATE 2018-09-13 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Polygon, North Carolina, NCDOT, Transportation, Right of Way, Highway, Transportation Planning, Location, Utilities, Gas, Property, ROW.

THESAURUS ▶

TITLE User

CREATION DATE 2018-09-13 00:00:00

PUBLICATION DATE 2018-09-13 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE NC Proposed Utility Gas Line, Continuous Capture – NC Department of Transportation
ALTERNATE TITLES ProposedUtilityGasPolyline
CREATION DATE 2018-09-13 00:00:00
PUBLICATION DATE 2018-09-13 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 Transportation, Right of Way Unit
CONTACT'S POSITION Right of Way Agent II (Real Property Conveyance Specialist)
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE
VOICE 919-707-4360

ADDRESS

TYPE physical
DELIVERY POINT 1 South Wilmington Street
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27601
COUNTRY US
E-MAIL ADDRESS cegrady@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.

[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 4101 Capital Boulevard
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27604
COUNTRY US
E-MAIL ADDRESS gishelp@ncdot.gov

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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

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.5.1.7333

CREDITS

The North Carolina Department of Transportation, Division of Highways, Right of Way Unit.

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 ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

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CONTACT'S POSITION GIS Data and Services Consultant

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[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY continual

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

The North Carolina Department of Transportation, Division of Highways, Right of Way Unit maintenance is as needed and not regularly scheduled.

Support and maintenance of the 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

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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LEGAL CONSTRAINTS

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[ACCESS CONSTRAINTS](#) restricted

[USE CONSTRAINTS](#) restricted

SECURITY CONSTRAINTS

[CLASSIFICATION](#) confidential

[CLASSIFICATION SYSTEM](#) None

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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 3048.0060960121928
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN 0
M SCALE 1
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264

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],AUTHORITY["EPSG",2264]]

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 ProposedUtilityGasPolyline
* OBJECT TYPE composite
* OBJECT COUNT 0

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME ProposedUtilityGasPolyline
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 0
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

[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

After processing and based on the availability of the submitter, 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 **2018-09-13 00:00:00**

PUBLICATION DATE **2018-09-13 00:00:00**

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶

MEASURE DESCRIPTION

This dataset is converted to file geodatabase (FGDB) format. Data quality is not automated as part of the conversion process and assessed on an irregular basis.

CONFORMANCE TEST RESULTS

TEST PASSED **Yes**

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ▶

TITLE **NCDOT Geospatial Data Specifications**

CREATION DATE **2018-09-13 00:00:00**

PUBLICATION DATE **2018-09-13 00:00:00**

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

The source data may be checked using standard review procedures. Attributes and null values were checked by using visual inspection as well as automated verification routines. Geometry checks were done post processing by the users.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass.

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2018-09-13 00:00:00

PUBLICATION DATE 2018-09-13 00:00:00

[Hide Product specification ▲](#)

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

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

This dataset was originally created by the North Carolina Department of Transportation, Right of Way Unit, to provide a geographic representation of proposed gas utilities affected by proposed Right of Way acquisition in North Carolina. The data contained within this dataset is automatically loaded to the enterprise database environment through the data conversion process. Web mapping services are created with this data from the database. These services support the Right of Way Management System (ROWMS) online GIS data viewer which is utilized by the NCDOT's Right of Way Unit.

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2018-09-01 00:00:00

DESCRIPTION

The Right of Way data is originally created using MicroStation (CAD software). This data, known as Levels, exist as DGN format data files

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation, Right of Way Unit

CONTACT'S POSITION Right of Way Agent II (Real Property Conveyance Specialist)

CONTACT'S ROLE originator

[CONTACT INFORMATION ►](#)

PHONE

VOICE 919-707-4360

ADDRESS

TYPE physical

DELIVERY POINT 1 South Wilmington Street

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27601

COUNTRY US

E-MAIL ADDRESS cegrady@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.

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2018-09-10 00:00:00

DESCRIPTION

The ROW DGN format data is converted into a geospatial enterprise database utilizing a GIS data conversion process.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation, Right of Way Unit

CONTACT'S POSITION Right of Way Agent II (Real Property Conveyance Specialist)

CONTACT'S ROLE resource provider

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-4360

ADDRESS

TYPE physical

DELIVERY POINT 1 South Wilmington Street

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27601

COUNTRY US

E-MAIL ADDRESS cegrady@ncdot.gov

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2018-09-13 00:00:00

DESCRIPTION

The Right of Way enterprise geodatabase data is published as a series of map services for display in the online ROWMS application, maintained by the NCDIT-Transportation GIS Unit.

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

TYPE physical

DELIVERY POINT 4101 Capital Boulevard

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

9:00am - 5:00pm Monday – Friday

CONTACT INSTRUCTIONS

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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 point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT 4101 Capital Boulevard

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27604

COUNTRY US

E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

9:00am - 5:00pm Monday – Friday

CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

VERSION 10.5.1

* NAME File Geodatabase Feature Class

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [ProposedUtilityGasPolyline ►](#)

* TYPE Feature Class

* ROW COUNT 0

DEFINITION

ProposedUtilityGasPolyline

DEFINITION SOURCE

North Carolina Department of Transportation, Right of Way Unit

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 [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 **IgdsClass** ►

- * ALIAS IgdsClass
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Field from original DGN format file. The element's class value. 0 = Primary.

DESCRIPTION SOURCE

NCDOT Right of Way Unit

DESCRIPTION OF VALUES

Numerical value.

Hide Field IgdsClass ▲

FIELD **IgdsStyle** ►

- * ALIAS IgdsStyle
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Field from original DGN format file. The element's line style.

DESCRIPTION SOURCE

NCDOT Right of Way Unit

DESCRIPTION OF VALUES

Numerical value.

Hide Field IgdsStyle ▲

FIELD **IgdsWeight** ►

- * ALIAS IgdsWeight
- * DATA TYPE Integer

- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Field from original DGN format file. The element's line weight.

DESCRIPTION SOURCE

NCDOT Right of Way Unit

DESCRIPTION OF VALUES

Numerical value.

Hide Field IgdsWeight ▲

FIELD **IgdsColor** ►

- * ALIAS IgdsColor
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Field from original DGN format file. The element's color setting. This is the element's color index into the color table stored in the design file.

DESCRIPTION SOURCE

NCDOT Right of Way Unit

DESCRIPTION OF VALUES

Numerical value.

Hide Field IgdsColor ▲

FIELD **IgdsGraphicGroup** ►

- * ALIAS IgdsGraphicGroup
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Field from original DGN format file. The element's graphic group number.

DESCRIPTION SOURCE

NCDOT Right of Way Unit

DESCRIPTION OF VALUES

Numerical value.

Hide Field IgdsGraphicGroup ▲

FIELD **IgdsLevel** ►

- * ALIAS IgdsLevel

- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Field from original DGN format file, a level-based format. The IGDS (Interactive Graphics Design System – CAD format) level value of the feature.

DESCRIPTION SOURCE

NCDOT Right of Way Unit

DESCRIPTION OF VALUES

Numerical value.

Hide Field IgdsLevel ▲

FIELD LevelName ►

- * ALIAS LevelName
- * DATA TYPE String
- * WIDTH 75
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Field from original DGN format file, a level-based format. The name of the level from which the element originated. This closely matches the name of the feature class.

DESCRIPTION SOURCE

NCDOT Right of Way Unit

DESCRIPTION OF VALUES

Numerical value.

Hide Field LevelName ▲

FIELD ProjectID ►

- * ALIAS ProjectID
- * DATA TYPE String
- * WIDTH 75
- * PRECISION 0
- * SCALE 0

DESCRIPTION SOURCE

NCDOT Right of Way Unit

FIELD DESCRIPTION

Concatenation of the NCDOT TIP Project number and “_ROWGIS”.

DESCRIPTION OF VALUES

Alphanumeric values will vary.

Hide Field ProjectID ▲

FIELD GlobalID ▶

- * ALIAS GlobalID
- * DATA TYPE GlobalID
- * WIDTH 38
- * PRECISION 0
- * SCALE 0

DESCRIPTION SOURCE

NCDOT Right of Way Unit

FIELD DESCRIPTION

Uniquely identifies a feature or table row within a geodatabase and across geodatabases.

DESCRIPTION OF VALUES

Alphanumeric values will vary.

Hide Field GlobalID ▲

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 ProposedUtilityGasPolyline ▲

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 2022-02-02

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 2021-11-29 16:17:00

LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-02-02 12:58:39

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2022-02-02 12:53:24

[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

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[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

MAINTENANCE CONTACT

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

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CONTACT'S ROLE point of contact

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SECURITY CONSTRAINTS

CLASSIFICATION confidential

CLASSIFICATION SYSTEM None

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