StructuresPoint, 2nd Quarter 2020 - NC Department of Transportation

Feature Class

Tags

Bridge, Pipe, Culvert, Bridge Maintenance Unit, SIP, SDV, Structures

Summary

Provide all currently inventoried NC bridge structures in one consistent format for query and display.

Description

Point file representing North Carolina bridges and other structures, extracted and attributed by the NCDOT Bridge Maintenance Unit's bridge database.

Credits

The bridge layer is a compilation of data originally found in the Bridge Inventory maps produced by the Mapping group of the State Road Maintenance Unit which has been supplemented with updates from the bridge database of the NCDOT's Bridge Maintenance Unit.

Use limitations

The availability and accuracy of the bridge dataset is dependent upon an ongoing process of integration between the NCDOT GIS Unit and the Bridge Maintenance Unit's bridge database. Discrepancies may exist since the frequency with which the sources are updated is not the same among the different groups. Please take this into account prior to utilizing the GIS bridge layer.

Extent

West	-84.402344	**East**	-75.423872
North	36.614196	**South**	33.769569

Scale Range

Maximum (zoomed in)   1:5,000

Minimum (zoomed out)   1:150,000,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE   environment, inlandWaters, location, planningCadastre, structure, transportation

* CONTENT TYPE   Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION   No

PLACE KEYWORDS   North Carolina

TEMPORAL KEYWORDS   Bridges - 2nd Quarter 2020, Roads - 1st Quarter 2020

THEME KEYWORDS   Bridge, Pipe, Culvert, bridge maintenance, SIP, SDV, Structures Management Unit, structures

Hide Topics and Keywords ▲

Citation ▶

TITLE   StructuresPoint, 2nd Quarter 2020 - NC Department of Transportation
PUBLICATION DATE   2020-05-11

PRESENTATION FORMATS   * digital map

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY
  INDIVIDUAL'S NAME   GIS Help Desk
  ORGANIZATION'S NAME   NCDOT GIS Unit
  CONTACT'S ROLE   point of contact

  CONTACT INFORMATION   ▶
   PHONE
    VOICE   919.707.2165
    FAX   919.707.2210

   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
    8 am to 5 pm, M-F

   CONTACT INSTRUCTIONS
    For further information about bridge attributes, contact Cary Clemmons of the Bridge Maintenance Unit,
    at (919) 707-6458 or cclemmons@ncdot.gov

  Hide Contact information ▲

Hide Citation Contacts ▲

Resource Details ▶

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

SPATIAL REPRESENTATION TYPE   * vector

SUPPLEMENTAL INFORMATION
    *****This bridge layer contains many kinds of structures currently maintained by the Bridge
    Maintenance Unit (BMU) of the NCDOT. They reflect an ongoing attempt by the NCDOT GIS Unit to
    portray the traffic-carrying structures found in the NCDOT BMU's Bridge Database and shown in the GIS
    Bridge layer in as timely a manner as possible. Until such time as the GIS Unit can approximate the
    maintenance schedule of the BMU, the GIS layer may not accurately reflect the structures currently in
    service or the additions and deletions to the Bridge Inventory system which are performed on a daily
    basis by the BMU.*****

Recent attribute changes:
All TIER-related fields were removed for the 1st Quarter 2016 release. TIER values are no longer being utilized or maintained by the NCDOT.

Sign structures have been included in the data release for 1st Quarter 2016. These structures include Overhead, Cantilever and T-Pole signs. Points for Cantilever and T-Pole signs are snapped to the route closest to the main pole of the sign. Points for Overhead signs are snapped to the inventory direction of the route passing under the sign.

2 new fields were added for the 1st Qtr 2015 release:
- GOOGLE_LINK - this field contains a hyperlink that will spawn a Google map location centered on the selected structure. Users should select the lightning-bolt shaped "Hyperlink" tool in ArcMap in order to utilize this field. SDV users can do an "Identify" on the structure, followed by a click on this hyperlink field to create a Google map.

- MAINT_RESP - this is a new field indicating the agency with maintenance responsibility for the structure and can be used to indicate the difference between city or state maintenance for a structure. The main code indicating state maintenance is "01," while the main code for city maintenance is "04," although there are other codes for both. Please see the metadata entry for this field for a list of current enumerated codes and associated agencies.

Following the introduction of the new MAINT_RESP field, structures have been renamed to remove the "CITY" designation in the BRDG_TYP_NM field. Users can now distinguish city types by using MAINT_RESP code described above. BRDG_TYP_NM will now only contain the name of the structure type and no information concerning maintenance responsibility.

Please refer to the Attribute section of this metadata for more information on the new attributes, as well as descriptions of some of the values.

Older attribute changes:
Item names for 4 of the fields in the shapefile and derived tables have changed to match the item names found in the map services. The names changed are:
BRIDGE_NUM changed to BRDG_NBR;
TYPE changed to BRDG_TYP_NM, which will be truncated in the shapefile to BRDG_TYP_N;
BSIP_BNUM changed to BSIP_BRDG_NUM, which will be truncated in the shapefile to BSIP_BRDG_;
ServiceOn has been capitalized to SERVICEON.

Many fields were previously added to the bridge layer for customer use. These include:
Coordinate information fields - X,Y coordinates in NAD 83 Stateplane Feet have been added, along with latitude/longitude coordinates in Geographic Decimal Degrees. Route-milepost information has also been included. Please note the milepost value is derived from the RTE_ID field - this 10-digit field is a concatenation of the 8-digit ROUTE number and the 2-digit county number and there are a small number of instances across the state where the county number may differ from the COUNTY name carried by the BMU Bridge Database. These are usually cases of structures on or very near a county line and the structure's location along a route may differ from the county assigned by the bridge database.

Many fields from the bridge database have been added to make the shapefile (downloadable from the GIS Unit's Data Distribution page) the equivalent of the bridge map service found in the Spatial Data Viewer (SDV). These include functional class designations, sufficiency ratings, and posted weight values.

Added TYPEs include PAVEMENT ON PILES. FEDERAL BRIDGE replaces "Gov't Bridge;" FERRY RAMP replaces "Ferry;" and all TYPE values are now capitalized.

The Verification field was dropped. All structure points have been compared to the latest imagery available at the time of review and visually verified except for the newest structures under construction which don't appear yet in any imagery. These structures can't be verified until the imagery and linework have been updated. The GIS Unit does NOT guarantee accurate placement of the structure points, but does try to use all available information at the time of review to accomplish it.

RD_ANGLE and STR_ANGLE were added to the layer. RD_ANGLE is the tangent angle of the road closest to the structure point. The STR_ANGLE is the angle of the structure relative to the road at that same point. Many structure types will parallel the road (these structures can be found by selecting for "RD_ANGLE = STR_ANGLE"). Other structure types may cross the road perpendicularly (culverts, pipes, railroads, and walkways). Most of these are calculated to be 90-degrees off the RD_ANGLE value, although some may have values assigned manually during spatial reviews. The STR_ANGLE can be used to assign angled symbols for structure display on maps - be aware, however, that many symbols may need to have their default angles adjusted in their layer's Properties before the value stored in STR_ANGLE can display the symbol accurately.

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

CREDITS

The bridge layer is a compilation of data originally found in the Bridge Inventory maps produced by the Mapping group of the State Road Maintenance Unit which has been supplemented with updates from the bridge database of the NCDOT's Bridge Maintenance Unit.

ArcGIS ITEM PROPERTIES
  NAME StructuresPoint

Hide Resource Details ▲

Extents ►

EXTENT
  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      EXTENT TYPE   Extent used for searching
      * WEST LONGITUDE   -84.402344
      * EAST LONGITUDE   -75.423872
      * NORTH LATITUDE   36.614196
      * SOUTH LATITUDE   33.769569
      * EXTENT CONTAINS THE RESOURCE   Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
  * WEST LONGITUDE   412590.858968
  * EAST LONGITUDE   3050215.764481
  * SOUTH LATITUDE   48904.610063
  * NORTH LATITUDE   1042510.858410
  * EXTENT CONTAINS THE RESOURCE   Yes

Hide Extents ▲

Resource Points of Contact ►

POINT OF CONTACT
  INDIVIDUAL'S NAME   GIS Help Desk
  ORGANIZATION'S NAME   NCDOT GIS Unit
  CONTACT'S ROLE   point of contact

    CONTACT INFORMATION   ►
    PHONE
      VOICE   919.707.2165
      FAX   919.707.2210

    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
8 am to 5 pm, M-F

CONTACT INSTRUCTIONS
For further information about bridge attributes, contact Cary Clemmons of the Bridge Maintenance Unit, at (919) 707-6458 or cclemmons@ncdot.gov

Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ▶

RESOURCE MAINTENANCE
UPDATE FREQUENCY   quarterly

OTHER MAINTENANCE REQUIREMENTS
Time Period of content: 2nd Quarter 2020 (source date 03/24/20) - Bridges;
1st Quarter 2020 - NCRoutes for route-MP references

Hide Resource Maintenance ▲

Resource Constraints ▶

CONSTRAINTS
LIMITATIONS OF USE

The availability and accuracy of the bridge dataset is dependent upon an ongoing process of integration between the NCDOT GIS Unit and the Bridge Maintenance Unit's bridge database. Discrepancies may exist since the frequency with which the sources are updated is not the same among the different groups. Please take this into account prior to utilizing the GIS bridge layer.

LEGAL CONSTRAINTS
LIMITATIONS OF USE
The availability and accuracy of the bridge dataset is dependent upon an ongoing process of integration between the NCDOT GIS Unit and the Bridge Maintenance Unit's bridge database. Discrepancies may exist since the frequency with which the sources are updated is not the same among the different groups. Please take this into account prior to utilizing the GIS bridge layer.

SECURITY CONSTRAINTS
CLASSIFICATION   unclassified
CLASSIFICATION SYSTEM   None

LIMITATIONS OF USE
The availability and accuracy of the bridge dataset is dependent upon an ongoing process of integration between the NCDOT GIS Unit and the Bridge Maintenance Unit's bridge database. Discrepancies may exist since the frequency with which the sources are updated is not the same among the different groups. Please take this into account prior to utilizing the GIS bridge layer.

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   0
Z SCALE   1
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["Gree
nwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMET
ER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridi
an",-
79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16
666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],AUTHO
RITY["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   StructuresPoint
    * OBJECT TYPE   point
    * OBJECT COUNT   22132

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ▶
  FEATURE CLASS NAME   StructuresPoint
    * FEATURE TYPE   Simple
    * GEOMETRY TYPE   Point
    * HAS TOPOLOGY   FALSE
    * FEATURE COUNT   22132
    * SPATIAL INDEX   TRUE
    * LINEAR REFERENCING   FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ▶

SCOPE OF QUALITY INFORMATION   ▶
  RESOURCE LEVEL   attribute

Hide Scope of quality information ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶
  EVALUATION METHOD
      There are no measurement, precision, spatial, or data schema standards assigned to this dataset.

Hide Data quality report - Quantitative attribute accuracy ▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶
  EVALUATION METHOD
      There are no measurement, precision, spatial, or data schema standards assigned to this dataset.

Hide Data quality report - Conceptual consistency ▲

DATA QUALITY REPORT - COMPLETENESS OMISSION ▶
  EVALUATION METHOD
      There are no measurement, precision, spatial, or data schema standards assigned to this dataset.

      The bridge layer contains many kinds of structures currently maintained by the Structures Management Unit of the NCDOT. They reflect an ongoing integration between the structures found in the GIS bridge layer and the bridge database maintained by the Structures Management Unit. As such, the GIS layer may not accurately reflect the structures currently in service or the additions and deletions to the Bridge Inventory system which are performed on a daily basis.

Hide Data quality report - Completeness omission ▲

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ▶
  DIMENSION horizontal

  EVALUATION METHOD
      Structures were compared for accuracy against the most current imagery and against field inspection reports where necessary. Structure points are snapped to the relevant state-maintained routes in the center of the structures where possible. In the case of intersecting, non-divided routes, the structure point is snapped to the routes' intersection point. In the case of divided highways, the structure point is snapped to the intersection of the inventory sides of the routes. Otherwise, there are no measurement, precision, spatial, or data schema standards assigned to this dataset.

Hide Data quality report - Absolute external positional accuracy ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT
      x,y-coordinate values were collected from MicroStation DGN's used in the layout of the Bridge Inventory Maps. These x,y-coordinates were matched to a copy of the Bridge Database supplied by the NCDOT

SMU which contained all structures. Matching structures were placed by these x,y-coordinates utilizing the Add XY Data tool in ArcMap. Non-matching structures were extracted and placed using their latitude/longitude values. The two datasets were then merged into one dataset under the NAD83 State Plane Feet projection, and a process was started to review the positional accuracy of all bridges placed via latitude/longitude and to confirm other structures as deemed necessary.

Quarterly, the GIS Unit requests a bridge database update from SMU and compares this update against the existing GIS Bridge layer. Non-matching structure records are sorted according to whether they are additions or deletions compared to the existing bridge layer. Deletions are removed to a separate layer and additions are merged into the existing layer, followed by a period of review using the latest imagery for location verification. Coordinate information (X,Y's, lat/long's and route-MP's) are updated following this verification.

Because of timing issues, the current quarter's bridge mileposts are usually based on the previous quarter's linework.

PROCESS STEP ►
WHEN THE PROCESS OCCURRED   2020-05-11   00:00:00
DESCRIPTION
Review metadata and post to website

PROCESS CONTACT
INDIVIDUAL'S NAME   GIS Help Desk
ORGANIZATION'S NAME   North Carolina Department of Transportation Geographic Information Systems Unit
CONTACT'S ROLE   processor

CONTACT INFORMATION   ►
PHONE
VOICE   919.707.2165
FAX   919.707.2210

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

HOURS OF SERVICE
8 am to 5 pm, M-F

Hide Contact information ▲

Hide Process step ▲

Hide Lineage ▲

Distribution ►

DISTRIBUTOR   ►
CONTACT INFORMATION
INDIVIDUAL'S NAME   GIS Help Desk
ORGANIZATION'S NAME   NCDOT GIS Unit

CONTACT'S ROLE   distributor

CONTACT INFORMATION   ▶
PHONE
VOICE   919.707.2165
FAX   919.707.2210

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
8 am to 5 pm, M-F

CONTACT INSTRUCTIONS
For further information about bridge attributes, contact Cary Clemmons of the Bridge Maintenance Unit, at (919) 707-6458 or cclemmons@ncdot.gov

Hide Contact information ▲

TRANSFER OPTIONS
ONLINE SOURCE
LOCATION   https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx

Hide Distributor ▲

DISTRIBUTION FORMAT
NAME   Shape File
VERSION   ArcGIS 10.5

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT StructuresPoint   ▶
* TYPE   Feature Class
ROW COUNT   22312
DEFINITION
Bridges and other structures along NC highways

DEFINITION SOURCE
NCDOT Structures Management Unit

FIELD ROUTE   ▶
* ALIAS   Route
* DATA TYPE   String
* WIDTH   10
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
8-digit route number on which structure is located; may be empty for non-verified bridges

DESCRIPTION SOURCE
    NCDIT-T GIS Unit

Hide Field ROUTE ▲

FIELD BRDG_NBR ▶
  * ALIAS   Bridge Number
  * DATA TYPE   String
  * WIDTH   8
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
      2-digit county number + 4-digit bridge number

  DESCRIPTION SOURCE
      NCDOT Structures Management Unit

Hide Field BRDG_NBR ▲

FIELD Shape ▶
  * ALIAS   Shape
  * DATA TYPE   Geometry
  * WIDTH   4
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
      Feature geometry.

  DESCRIPTION SOURCE
      ESRI

  DESCRIPTION OF VALUES
      Coordinates defining the features.

Hide Field Shape ▲

FIELD COUNTY ▶
  * ALIAS   County
  * DATA TYPE   String
  * WIDTH   15
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
      County name

  DESCRIPTION SOURCE
      NCDOT Structures Management Unit

Hide Field COUNTY ▲

FIELD F_CARRIED ▶

* **ALIAS**   F_CARRIED
* **DATA TYPE**   String
* **WIDTH**   50
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
   Facility carried by the structure - highways, railroads, etc

DESCRIPTION SOURCE
   NCDOT Structures Management Unit

Hide Field F_CARRIED ▲

FIELD BRDG_TYP_NM ▶
* **ALIAS**   Bridge Type
* **DATA TYPE**   String
* **WIDTH**   25
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
   Structure type

DESCRIPTION SOURCE
   NCDOT Structures Management Unit

Hide Field BRDG_TYP_NM ▲

FIELD FTR_INTRSC ▶
* **ALIAS**   FTR_INTRSC
* **DATA TYPE**   String
* **WIDTH**   50
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
   Feature intersected by the structure - streams, river, highways, etc

DESCRIPTION SOURCE
   NCDOT Structures Management Unit

Hide Field FTR_INTRSC ▲

FIELD DIVISION ▶
* **ALIAS**   DIVISION
* **DATA TYPE**   String
* **WIDTH**   2
* **PRECISION**   0
* **SCALE**   0
FIELD DESCRIPTION
   Division number

DESCRIPTION SOURCE
   NCDOT Structures Management Unit

Hide Field DIVISION ▲

FIELD STRUCT_DEF ▶
* ALIAS   STRUCT_DEF
* DATA TYPE   String
* WIDTH   5
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Structural deficiency

DESCRIPTION SOURCE
    NCDOT Structures Management Unit

Hide Field STRUCT_DEF ▲

FIELD FUNC_OBSOL ▶
* ALIAS   FUNC_OBSOL
* DATA TYPE   String
* WIDTH   5
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    Functional obsolescence

DESCRIPTION SOURCE
    NCDOT Structures Management Unit

Hide Field FUNC_OBSOL ▲

FIELD SUFFRATING ▶
* ALIAS   SUFFRATING
* DATA TYPE   Double
* WIDTH   8
* PRECISION   38
* SCALE   8
FIELD DESCRIPTION
    Sufficiency rating

DESCRIPTION SOURCE
    NCDOT Structures Management Unit

Hide Field SUFFRATING ▲

FIELD NHS ▶
* ALIAS   NHS
* DATA TYPE   Double
* WIDTH   8
* PRECISION   38
* SCALE   8
FIELD DESCRIPTION
    National Highway System

DESCRIPTION SOURCE
    NCDOT Structures Management Unit

LIST OF VALUES
  VALUE   0
  DESCRIPTION   Inventory Route is not on the NHS
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

  VALUE   1
  DESCRIPTION   Inventory Route is on the NHS
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

Hide Field NHS ▲

FIELD DEF_NETWRK ►
  * ALIAS   DEF_NETWRK
  * DATA TYPE   String
  * WIDTH   3
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
      Defense network

  DESCRIPTION SOURCE
      NCDOT Structures Management Unit

  LIST OF VALUES
  VALUE   0
  DESCRIPTION   The inventory route is not a STRAHNET route
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

  VALUE   1
  DESCRIPTION   The inventory route is on an Interstate STRAHNET route
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

  VALUE   2
  DESCRIPTION   The inventory route is on a Non-Interstate STRAHNET route
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

  VALUE   3
  DESCRIPTION   The inventory route is on a STRAHNET connector route
  ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

Hide Field DEF_NETWRK ▲

FIELD DETOUR_LEN ►
  * ALIAS   DETOUR_LEN
  * DATA TYPE   String
  * WIDTH   5
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
      Detour length

  DESCRIPTION SOURCE
      NCDOT Structures Management Unit

Hide Field DETOUR_LEN ▲

FIELD FUNC_CLASS ▶
  * ALIAS   FUNC_CLASS
  * DATA TYPE   String
  * WIDTH   60
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
      Functional class

  DESCRIPTION SOURCE
      NCDOT Structures Management Unit

Hide Field FUNC_CLASS ▲

FIELD POSTED_SV ▶
  * ALIAS   POSTED_SV
  * DATA TYPE   Integer
  * WIDTH   4
  * PRECISION   10
  * SCALE   0
  FIELD DESCRIPTION
      Posted weight limit, single vehicle

  DESCRIPTION SOURCE
      NCDOT Structures Management Unit

Hide Field POSTED_SV ▲

FIELD NATTRUCNET ▶
  * ALIAS   NATTRUCNET
  * DATA TYPE   String
  * WIDTH   3
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
      National truck network

  DESCRIPTION SOURCE
      NCDOT Structures Management Unit

  LIST OF VALUES
    VALUE   0
    DESCRIPTION   The inventory route is not part of the national network for trucks
    ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

    VALUE   1
    DESCRIPTION   The inventory route is part of national network for trucks
    ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

Hide Field NATTRUCNET ▲

FIELD STRTYPMAIN ▶
  * ALIAS   STRTYPMAIN

* DATA TYPE   String
* WIDTH   5
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
　　Structure type main

DESCRIPTION SOURCE
　　NCDOT Structures Management Unit

Hide Field STRTYPMAIN ▲

FIELD SUPERSTRUC　▶
* ALIAS   SUPERSTRUC
* DATA TYPE   String
* WIDTH   100
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
　　Superstructure

DESCRIPTION SOURCE
　　NCDOT Structures Management Unit

Hide Field SUPERSTRUC ▲

FIELD BSIP_BRDG_NBR　▶
* ALIAS   BSIP Bridge Number
* DATA TYPE   String
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
　　3-digit county number + 4-digit bridge number

DESCRIPTION SOURCE
　　NCDIT-T GIS Unit

Hide Field BSIP_BRDG_NBR ▲

FIELD X_COORD　▶
* ALIAS   X_COORD
* DATA TYPE   Double
* WIDTH   8
* PRECISION   38
* SCALE   8
FIELD DESCRIPTION
　　Calculated X coordinate in NAD83 Stateplane Feet

DESCRIPTION SOURCE
　　NCDIT-T GIS Unit

Hide Field X_COORD ▲

FIELD Y_COORD ▶
* ALIAS Y_COORD
* DATA TYPE Double
* WIDTH 8
* PRECISION 38
* SCALE 8
FIELD DESCRIPTION
    Calculated Y coordinate in NAD83 Stateplane Feet

DESCRIPTION SOURCE
    NCDIT-T GIS Unit

Hide Field Y_COORD ▲

FIELD LONG_DD ▶
* ALIAS LONG_DD
* DATA TYPE Double
* WIDTH 8
* PRECISION 38
* SCALE 8
FIELD DESCRIPTION
    Calculated Longitude value in Geographic decimal degrees

DESCRIPTION SOURCE
    NCDIT-T GIS Unit

Hide Field LONG_DD ▲

FIELD SUBSTRUCTU ▶
* ALIAS SUBSTRUCTU
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
    Substructure

DESCRIPTION SOURCE
    NCDOT Structures Management Unit

Hide Field SUBSTRUCTU ▲

FIELD LAT_DD ▶
* ALIAS LAT_DD
* DATA TYPE Double
* WIDTH 8
* PRECISION 38
* SCALE 8
FIELD DESCRIPTION
    Calculated Latitude value in Geographic decimal degrees

DESCRIPTION SOURCE
    NCDIT-T GIS Unit

Hide Field LAT_DD ▲

* ALIAS OBJECTID
* DATA TYPE OID
* WIDTH 4
* PRECISION 10
* SCALE 0

FIELD DESCRIPTION
Internal feature number.

DESCRIPTION SOURCE
ESRI

DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

* ALIAS ServiceOn
* DATA TYPE String
* WIDTH 3
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
The type of service offered by the bridge, used in determining traffic-carrying structures (codes 1, 4, 5, 6, 7, 8 carry traffic)

DESCRIPTION SOURCE
NCDOT Structures Management Unit

LIST OF VALUES
VALUE 1
DESCRIPTION Highway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 2
DESCRIPTION Railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 3
DESCRIPTION Pedestrian-bicycle
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 4
DESCRIPTION Highway-railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 5
DESCRIPTION Highway-pedestrian
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE 6
DESCRIPTION Overpass structure at an interchange or second level of a multilevel interchange
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT Structures Management Unit

VALUE   7
DESCRIPTION   Third level (Interchange)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE   8
DESCRIPTION   Fourth level (Interchange)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE   9
DESCRIPTION   Building or plaza
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE   0
DESCRIPTION   Other
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

Hide Field ServiceOn ▲

FIELD RTE_ID ▶
* ALIAS   Route ID
* DATA TYPE   String
* WIDTH   12
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
    11-digit route & county number, used for routing purposes

DESCRIPTION SOURCE
    NCDIT-T GIS Unit

Hide Field RTE_ID ▲

FIELD POSTED_TTST ▶
* ALIAS   POSTED_TTST
* DATA TYPE   Integer
* WIDTH   4
* PRECISION   10
* SCALE   0
FIELD DESCRIPTION
    Posted weight limit, tractor trailer, semi-truck

DESCRIPTION SOURCE
    NCDOT Structures Management Unit

Hide Field POSTED_TTST ▲

FIELD RD_ANGLE ▶
* ALIAS   RD_ANGLE
* DATA TYPE   Double
* WIDTH   8
* PRECISION   38
* SCALE   8
FIELD DESCRIPTION
    Calculated angle of the road at the point closest to the structure (the tangent angle).

DESCRIPTION SOURCE

NCDIT-T GIS Unit

Hide Field RD_ANGLE ▲

FIELD STR_ANGLE ▶
- *** ALIAS** STR_ANGLE
- *** DATA TYPE** Double
- *** WIDTH** 8
- *** PRECISION** 38
- *** SCALE** 8
- **FIELD DESCRIPTION**
  Calculated angle of the structure relative to the road; many types will parallel the road (RD_ANGLE = STR_ANGLE), others may cross the road perpendicularly (culverts, pipes, railroads, and walkways). Most of the perpendicular structures are calculated to be 90-degrees off the RD_ANGLE value.

- **DESCRIPTION SOURCE**
  NCDIT-T GIS Unit

Hide Field STR_ANGLE ▲

FIELD MP ▶
- *** ALIAS** MP
- *** DATA TYPE** Double
- *** WIDTH** 8
- *** PRECISION** 38
- *** SCALE** 8
- **DESCRIPTION SOURCE**
  NCDIT-T GIS Unit

- **FIELD DESCRIPTION**
  Milepost of the structure along the indicated ROUTE

Hide Field MP ▲

FIELD GOOGLE_LINK ▶
- *** ALIAS** GOOGLE_LINK
- *** DATA TYPE** String
- *** WIDTH** 150
- *** PRECISION** 0
- *** SCALE** 0
- **FIELD DESCRIPTION**
  Hyperlink to Google Maps showing structure selected; calculated from the LAT_DD and LONG_DD fields

- **DESCRIPTION SOURCE**
  NCDIT-T GIS Unit

Hide Field GOOGLE_LINK ▲

FIELD MAINT_RESP ▶
- *** ALIAS** Maintenance Responsiblity
- *** DATA TYPE** String
- *** WIDTH** 2
- *** PRECISION** 0
- *** SCALE** 0

The actual name(s) of the agency(s) responsible for the maintenance of the structure. Values enumerated below are for the currently-existing codes in the database, as of 1st Qtr 2015

DESCRIPTION SOURCE
NCDOT Structures Management Unit

LIST OF VALUES
VALUE 01
DESCRIPTION   State Highway Agency
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 04
DESCRIPTION   City or Municipal Highway Agency
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 11
DESCRIPTION   State Park, Forest, or Reservation Agency
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 21
DESCRIPTION   Other State Agencies
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 25
DESCRIPTION   Other Local Agencies
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 26
DESCRIPTION   Private (other than railroad)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 27
DESCRIPTION   Railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 31
DESCRIPTION   State Toll Authority
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 60
DESCRIPTION   Other Federal Agencies (not listed below)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 66
DESCRIPTION   National Park Service
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

VALUE 70
DESCRIPTION   Corps of Engineers (Civil)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   NCDOT Structures Management Unit

Hide Field MAINT_RESP ▲

Hide Details for object StructuresPoint ▲

Hide Fields ▲

Metadata Details ▶

METADATA LANGUAGE   English (UNITED STATES)

METADATA CHARACTER SET   utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER   EFBA7CF3-3BAD-40DC-ADE4-6F5C7526C878

SCOPE OF THE DATA DESCRIBED BY THE METADATA   dataset
SCOPE NAME   * dataset

* LAST UPDATE   2020-04-06

ARCGIS METADATA PROPERTIES
  METADATA FORMAT   ArcGIS 1.0
  STANDARD OR PROFILE USED TO EDIT METADATA   ISO19139
  METADATA STYLE   FGDC CSDGM Metadata

  CREATED IN ARCGIS FOR THE ITEM   2019-10-15
  LAST MODIFIED IN ARCGIS FOR THE ITEM   2020-04-06

  AUTOMATIC UPDATES
    HAVE BEEN PERFORMED   Yes
    LAST UPDATE   2020-04-06

Hide Metadata Details ▲

Metadata Contacts ▶

METADATA CONTACT
  INDIVIDUAL'S NAME   GIS Help Desk
  ORGANIZATION'S NAME   NCDOT GIS Unit
  CONTACT'S ROLE   point of contact

  CONTACT INFORMATION   ▶
    PHONE
      VOICE   919.707.2165
      FAX   919.707.2210

    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
      8 am to 5 pm, M-F

    CONTACT INSTRUCTIONS
      For further information about bridge attributes, contact Cary Clemmons of the Bridge Maintenance Unit,
      at (919) 707-6458 or cclemmons@ncdot.gov

  Hide Contact information ▲

Hide Metadata Contacts ▲

Metadata Maintenance ▶

MAINTENANCE
  UPDATE FREQUENCY   quarterly

Hide Metadata Maintenance ▲

Metadata Constraints ▶

CONSTRAINTS
  LIMITATIONS OF USE

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LEGAL CONSTRAINTS
  OTHER CONSTRAINTS

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SECURITY CONSTRAINTS
  CLASSIFICATION   unclassified
  CLASSIFICATION SYSTEM   None

  LIMITATIONS OF USE

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Hide Metadata Constraints ▲

Thumbnail and Enclosures ▶

THUMBNAIL
  THUMBNAIL TYPE   JPG

Hide Thumbnail and Enclosures ▲