

Data Dictionary

NYS Streets

NYS GIS Program Office

Document Description

This document contains the attribute field names and descriptions for the NYS GIS Program Office's *NYS Streets* layer. Appendix A includes a list of valid Field Domains and additional descriptive information for Field Names in bold.

Document Last Updated: 10/13/2015

StreetSegment

Field Name	Field Type	Field Length	Field Description	Domain Names
OBJECT_ID	OID	-	Unique feature record number.	N/A
DateModified	Date	-	Last modified date.	N/A
NYSSStreetID	Integer	-	Unique ID of NYS Streets.	N/A
LeftFromAddress	String	11	The address on the left side of the NYS Streets linestring corresponding to the FROM node of the linestring.	N/A
LeftToAddress	String	11	The address on the left side of the NYS Streets linestring corresponding to the TO node of the linestring.	N/A
RightFromAddress	String	11	The address on the right side of the NYS Streets linestring corresponding to the FROM node of the linestring.	N/A
RightToAddress	String	11	The address number on the right side of the NYS Streets linestring corresponding to the TO node of the linestring.	N/A
CompleteStreetName	String	68	Concatenation of PreModifier, CLDXF_PreDirectional, PreType, SeparatorElement, StreetName, CLDXF_PostType, CLDXF_PostDirectional, and PostModifier fields.	N/A
PreModifier	String	10	A word or phrase that precedes and modifies the Street Name element, typically separated from it by a PreType, PreDirectional, or both.	N/A
PreDirectional	String	10	A street direction that precedes the street name.	Direction
PreType	String	20	A word or phrase that precedes the Street Name element and identifies a type of thoroughfare.	PreType
SeparatorElement	String	10	A preposition or prepositional phrase that separates the PreType and StreetName elements.	SepElem
StreetName	String	40	The legal, authoritative name of the street.	N/A
PostType	String	20	An abbreviated street type that follows the StreetName element.	StreetType
PostDirectional	String	10	A street direction that follows the street name.	Direction

Field Name	Field Type	Field Length	Field Description	Domain Names
PostModifier	String	10	A descriptor that follows the street name and is not a suffix or a direction.	N/A
Shield	String	6	Route shield type.	Shield
HighwayNumber	String	5	A route number, which is assigned to a stretch of public road.	N/A
NavigationDirection	String	6	General travel direction along a divided highway.	Direction
Jurisdiction	String	6	Code representing owner of the street.	Jurisdiction
FCC	String	3	Feature Class Code.	FCC
ACC	String	1	Arterial Classification Code.	ACC
Speed	Integer	-	Average travel speed in miles per hour.	Speed
OneWay	String	6	One way status/direction.	OneWay
FromZlev	Integer	-	The elevation at the start of the segment where positive numbers go above grade and negative numbers go below grade. Zero is ground level.	N/A
ToZlev	Integer	-	The elevation at the end of the segment where positive numbers go above grade and negative numbers go below grade. Zero is ground level.	N/A
FromToDirection	String	6	The general direction of travel along a divided road based on the digitalizing of the linestring.	Direction
ToFromDirection	String	6	The general direction of travel along a divided road based on the digitalizing of the linestring.	Direction
FromToCost	Double	-	From-To impedance in minutes.	N/A
ToFromCost	Double	-	To-From impedance in minutes.	N/A
LeftStateName	String	2	Abbreviation of the State name on left side of the NYS Streets linestring.	State
RightStateName	String	2	Abbreviation of the State name on right side of the NYS Streets linestring.	State
LeftCountyName	String	12	Name of the County on left side of the NYS Street linestring.	County
RightCountyName	String	12	Name of the County on right side of the NYS Street linestring.	County
LeftPostal	String	5	Postal code on the left side of the NYS streets linestring.	N/A
RightPostal	String	5	Postal code on the right side of the NYS streets linestring.	N/A
LeftZipName	String	28	Name of the Zip code area on left side of the NYS Street linestring.	N/A
RightZipName	String	28	Name of the Zip code area on right side of the NYS Street linestring.	N/A
LeftCityTownName	String	30	Name of the City or Town on left side of the NYS Street linestring.	N/A
RightCityTownName	String	30	Name of the City or Town on right side of the NYS Street linestring.	N/A
LeftPlaceName	String	30	Name of Village, Indian Reservation, CDP or Alternate Zip Name on left side of the NYS Streets linestring.	N/A

Field Name	Field Type	Field Length	Field Description	Domain Names
RightPlaceName	String	30	Name of Village, Indian Reservation, CDP or Alternate Zip Name on right side of the NYS Streets linestring.	N/A
LeftGNIS	String	10	US Geographical Survey's Geographic Names unique identifier on left side of the NYS Streets linestring.	N/A
RightGNIS	String	10	US Geographical Survey's Geographic Names unique identifier on right side of the NYS Streets linestring.	N/A
LeftCensusBlock	String	16	Census Block identifier on left side of the NYS Streets linestring.	N/A
RightCensusBlock	String	16	Census Block identifier on right side of the NYS Streets linestring.	N/A
GeometryAccuracy	String	1	T/F (True/False) value indicates if the geometry was verified against orthoimagery or other high resolution data source.	GeomAcc
GeometrySource	String	30	The primary geometry data source used to align the linestring.	GeometrySource
NameSource	String	30	The street primary data source used to populate the street attributes on the linestring.	NameSource
AddressSource	String	30	The primary data source used to populate the address attributes on the linestring.	AddressSource
Status	String	7	Status of the record, either Active or Retired.	Status
CR_UserName	String	50	MY.gov ID of the user creating the linestring (GeoLynx edit tracking field).	N/A
CR_DateTime	String	-	Date and Time the linestring was created (GeoLynx edit tracking field).	N/A
AT_UserName	String	50	My.gov ID of the user modifying an attribute on the linestring (GeoLynx edit tracking field).	N/A
AT_DateTime	String	-	Date and Time the linestring was modified (GeoLynx edit tracking field).	N/A
SP_UserName	String	50	My.gov ID of the user spatially modifying an attribute on the linestring (GeoLynx edit tracking field).	N/A
SP_DateTime	String	-	Date and Time a feature was spatially modified.	N/A
Label	String	60	Same as CompleteStreetName but with abbreviations for smaller labels.	N/A
CLDXF_PreDirectional	String	10	Fully spelled out PreDirectional element.	CLDXF_Direction
CLDXF_PostType	String	25	Fully spelled out Street PostType element.	CLDXF_PostType
CLDXF_PostDirectional	String	10	Fully spelled out PostDirectional element.	CLDXF_Direction
LeftCountry	String	2	Country on the left side of the NYS streets linestring.	N/A
RightCountry	String	2	Country on the right side of the NYS streets linestring.	N/A
LeftParity	String	1	Odd, Even, or Both addressing on the left side of the NYS streets linestring.	N/A

Field Name	Field Type	Field Length	Field Description	Domain Names
RightParity	String	1	Odd, Even, or Both addressing on the right side of the NYS streets linestring.	N/A
LeftESN	String	5	Emergency Service Zone number on the left side of the NYS streets linestring.	N/A
RightESN	String	5	Emergency Service Zone number on the right side of the NYS streets linestring.	N/A

AltStreetName_Tbl

Field Name	Field Type	Field Length	Field Description	Domain Names
OBJECTID	OID	-	Unique feature record number	N/A
StName_ID	Integer	-	Unique record identifier	N/A
DateModified	Date	8	Last modified date	N/A
NYSSstreetID	Integer	-	Join identifier to the StreetSegment Layer	N/A
Sequence	Integer	-	Street sequence number	N/A
CompleteStreetName	String	68	Full/concatenated street name	N/A
PreModifier	String	10	Standardized street modifier	N/A
PreDirectional	String	10	Standardized street directional	Direction
PreType	String	20	Standardized street type	StreetType
SeparatorElement	String	10	Standardized separator elements	SepElem
StreetName	String	40	Standardized street	N/A
PostType	String	20	Standardized street type	StreetType
PostDirectional	String	10	Standardized street directional	Direction
PostModifier	String	10	Standardized street modifier	N/A
Shield	String	6	Route shield type	Shield
HighwayNumber	String	5	Number, number with letter, or blank	N/A
NameSource	String	30	Name data source	NameSource

Appendix A

Table 1 – Domain Values

ACC (See detailed descriptions in Table 2)

AddressSource

Domain Value	Description
NYSDP Build	NYSDP Build
Tele Atlas	Tele Atlas
NAVTEQ	NAVTEQ
County E911	County E911
County RPTS	County RPTS
NYC LION	NYC LION
NYSDOT HCC	NYSDOT HCC
NYSDP Maintenance	NYSDP Maintenance
NYSOPR	NYSOPR
Segment Validly Unaddressed	Segment Validly Unaddressed

County

Domain Value	Description
Albany	Albany
Allegany	Allegany
Bronx	Bronx
Broome	Broome
Cattaraugus	Cattaraugus
Cayuga	Cayuga
Chautauqua	Chautauqua
Chemung	Chemung
Chenango	Chenango
Clinton	Clinton
Columbia	Columbia
Cortland	Cortland
Delaware	Delaware
Dutchess	Dutchess
Erie	Erie
Essex	Essex
Franklin	Franklin
Fulton	Fulton
Genesee	Genesee
Greene	Greene
Hamilton	Hamilton
Herkimer	Herkimer
Jefferson	Jefferson
Kings	Kings
Lewis	Lewis
Livingston	Livingston
Madison	Madison
Monroe	Monroe
Montgomery	Montgomery
Nassau	Nassau

County

Domain Value	Description
New York	New York
Niagara	Niagara
Oneida	Oneida
Onondaga	Onondaga
Ontario	Ontario
Orange	Orange
Orleans	Orleans
Oswego	Oswego
Otsego	Otsego
Putnam	Putnam
Queens	Queens
Rensselaer	Rensselaer
Richmond	Richmond
Rockland	Rockland
Saratoga	Saratoga
Schenectady	Schenectady
Schoharie	Schoharie
Schuyler	Schuyler
Seneca	Seneca
St Lawrence	St Lawrence
Steuben	Steuben
Suffolk	Suffolk
Sullivan	Sullivan
Tioga	Tioga
Tompkins	Tompkins
Ulster	Ulster
Warren	Warren
Washington	Washington
Wayne	Wayne
Westchester	Westchester
Wyoming	Wyoming
Yates	Yates

Direction

<i>Domain Value</i>	<i>Description</i>
N	North
S	South
E	East
W	West
NE	Northeast
NW	Northwest
SE	Southeast
SW	Southwest

FCC (See detailed descriptions in Table 3)

GeomAcc

<i>Domain Value</i>	<i>Description</i>
T	T
F	F

GeometrySource

Domain Value	Description
NYSDP Build	NYSDP Build
NYC Orthoimagery	NYC Orthoimagery
USGS Orthoimagery	USGS Orthoimagery
Tele Atlas	Tele Atlas
NAVTEQ	NAVTEQ
County E911	County E911
County RPTS	County RPTS
NYSDOT HCC	NYSDOT HCC
NYSDP Maintenance	NYSDP Maintenance
Image Low Confidence	Image Low Confidence
NYSDOP Orthoimagery	NYSDOP Orthoimagery

Jurisdiction

Domain Value	Description
1	State Route
2	County Road
3	Town Road
6	Thruway & Berkshire Spur
9	Unknown Roadway Type
10	Parking Lot
12	City Street
13	Village Street
14	Private Road
15	Off Road

NameSource

Domain Value	Description
NYSDP Build	NYSDP Build
Tele Atlas	Tele Atlas
NAVTEQ	NAVTEQ
County E911	County E911
County RPTS	County RPTS
NYC LION	NYC LION
NYSDOT	NYSDOT
NYSDOT HCC	NYSDOT HCC
NYSDP Maintenance	NYSDP Maintenance
NYSOPR	NYSOPR

OneWay

Domain Value	Description
FT	FromTo
TF	ToFrom

SepElem

Domain Value	Description
At	At
De Las	De Las
In The	In The
Of	Of
Of The	Of The
On The	On The
To	To
To The	To The

Shield

<i>Domain Value</i>	<i>Description</i>
C	County Road
CT	County Touring
I	Interstate
IC	Interstate Connector
P	Parkway
S	State Touring Route
SC	State Highway Connector
SH	State 900 Route
U	US Highway
UB	US Highway Business Route
UC	US Highway Connector

Speed

<i>Domain Value</i>	<i>Description</i>
5	5
15	15
25	25
35	35
45	45
55	55
65	65
85	85

State

<i>Domain Value</i>	<i>Description</i>
NY	New York
CT	Connecticut
MA	Massachusetts
NJ	New Jersey
PA	Pennsylvania
VT	Vermont

StreetType

Domain Value	Description
Acrs	Acres
Aly	Alley
Anx	Annex
Apts	Apartments
Arc	Arcade
Ave	Avenue
Bay	Bay
Bch	Beach
Bg	Burg
Bgs	Burges
Blf	Bluff
Blfs	Bluffs
Blvd	Boulevard
Bnd	Bend
Br	Branch
Brdwk	Boardwalk
Brg	Bridge
Brk	Brook
Brks	Brooks
Btm	Bottom
Byp	Bypass
Byu	Bayou
Cay	Cay
Centre	Centre
Chas	Chase
Cir	Circle
Cirs	Circles
Clb	Club
Clf	Cliff
Clfs	Cliffs
Clos	Close
Cmn	Common
Cmns	Commons
Concourse	Concourse
Cor	Corner
Cors	Corners
County Hwy	County Road
County Rte	County Touring Route
Cp	Camp
Cpe	Cape
Cres	Crescent
Crk	Creek
Crse	Course
Crst	Crest
Cswy	Causeway
Ct	Court
Ctr	Center
Ctrs	Centers
Cts	Courts
Curv	Curve
Cv	Cove
Cvs	Coves
Cyn	Canyon
DI	Dale
Dm	Dam
Dr	Drive

StreetType

Drs	Drives
Drwy	Driveway
Dv	Divide
End	End
Esp	Esplanade
Est	Estate
Ests	Estates
Epy	Expressway
Ext	Extension
Exts	Extensions
Fall	Fall
Farm	Farm
Fld	Field
Flds	Fields
Fls	Falls
Flt	Flat
Flts	Flats
Frd	Ford
Frds	Fords
Frg	Forge
Frgs	Forges
Frk	Fork
Frks	Forks
Frst	Forest
Fry	Ferry
Ft	Fort
Fwy	Freeway
Gate	Gate
Gdn	Garden
Gdns	Gardens
Gln	Glen
Glns	Glens
Grds	Grounds
Grn	Green
Grns	Greens
Grv	Grove
Grvs	Groves
Gtwy	Gateway
Hbr	Harbor
Hbrs	Harbors
HI	Hill
Hls	Hills
Holw	Hollow
Hts	Heights
Hvn	Haven
Hwy	Highway
I	Interstate
Inlt	Inlet
Is	Island
Isle	Isle
Iss	Islands
Jct	Junction
Jcts	Junctions
KnI	Knoll
Knls	Knolls
Ky	Key
Kys	Keys

StreetType

Land	Land
Lck	Lock
Lcks	Locks
Ldg	Lodge
Lf	Loaf
Lgt	Light
Lgts	Lights
Lk	Lake
Lks	Lakes
Ln	Lane
Lndg	Landing
Loop	Loop
Mall	Mall
Mdw	Meadow
Mdws	Meadows
Mewes	Mewes
Mews	Mews
MI	Mill
Mls	Mills
Mnr	Manor
Mnrs	Manors
Msn	Mission
Mt	Mount
Mtn	Mountain
Mtns	Mountains
Mtwy	Motorway
Nck	Neck
New York City Hwy	New York City Highway
Opas	Overpass
Orch	Orchard
Otlk	Outlook
Oval	Oval
Ovlk	Overlook
Park	Park
Pass	Pass
Path	Path
Pier	Pier
Pike	Pike
Pkwy	Parkway
Pkwys	Parkways
Pl	Place
Pln	Plain
Plns	Plains
Plz	Plaza
Pne	Pine
Pnes	Pines
Pond	Pond
Pr	Prairie
Prom	Promenade
Prt	Port
Prts	Ports
Psge	Passage
Pt	Point
Pts	Points
Radl	Radial
Ramp	Ramp
Rd	Road

StreetType

Rdg	Ridge
Rdgs	Ridges
Rds	Roads
Rdwy	Roadway
Rise	Rise
Riv	River
Rnch	Ranch
Row	Row
Rpd	Rapid
Rpds	Rapids
Rst	Rest
Rte	Route
Rue	Rue
Run	Run
Shctr	Shopping Center
Shls	Shoals
Sho	Shoal
Shr	Shore
Shrs	Shores
Skwy	Skyway
Slip	Slip
Smt	Summit
Spg	Spring
Spgs	Springs
Spur	Spur
Spurs	Spurs
Sq	Square
Sqs	Squares
St	Street
Sta	Station
State Hwy	State Touring Highway
State Pkwy	State Parkway
State Rte	State Route
Stra	Stravenue
Strm	Stream
Sts	Streets
Ter	Terrace
Tlpk	Trailer Park
Tpke	Turnpike
Trak	Track
Trce	Trace
Trfy	Trafficway
TrkTrl	Truck Trail
Trl	Trail
Trlr	Trailer
Trwy	Thruway
Tunl	Tunnel
Turn	Turn
Twr	Tower
Twrs	Towers
Un	Union
Uns	Unions
Upass	Underpass
US Hwy	Federal Highway
US Rte	US Route
Vale	Vale
Via	Viaduct

StreetType

Vis	Vista
VI	Ville
Vlg	Village
Vlgs	Villages
Vls	Villas
Vly	Valley
Vlys	Valleys
Vw	View
Vws	Views
Walk	Walk
Walks	Walks
Wall	Wall
Way	Way

StreetType

Ways	Ways
Wds	Woods
Wels	Wells
Whf	Wharf
WI	Well
Wood	Wood
Xing	Crossing
Xrd	Crossroad
Xrds	Crossroads

PreType

Domain	Description
Alley	Alley
Avenue	Avenue
Boulevard	Boulevard
Camp	Camp
Circle	Circle
County Road	County Road
County Touring Route	County Touring Route
Court	Court
Cove	Cove
Drive	Drive
Expressway	Expressway
Extension	Extension
Farm	Farm
Highway	Highway
Hill	Hill
Interstate	Interstate
Island	Island
Lake	Lake
Lane	Lane
Loop	Loop
Mount	Mount
New York City Highway	New York City Highway
New York State Route	New York State Route
Oval	Oval

PreType (cont)

Park	Park
Parkway	Parkway
Path	Path
Pike	Pike
Place	Place
Plaza	Plaza
Points	Points
Road	Road
Route	Route
Row	Roe
Rue	Rue
State Route	State Route
State Touring Highway	State Touring Highway
Street	Street
Trail	Trail
Truck Trail	Truck Trail
United States Highway	United States Highway
United State Route	United States Route
Viaduct	Viaduct
Vista	Vista

CLDXF_Direction

Domain	Description
North	North
South	South
East	East
West	West
Northeast	Northeast
Northwest	Northwest
Southeast	Southeast
Southwest	Southwest

CLDXF_PostType

Domain	Description
Acres	Acres
Alley	Alley
Annex	Annex
Apartments	Apartments
Arcade	Arcade
Avenue	Avenue
Bay	Bay
Beach	Beach
Burg	Burg
Burbs	Burbs
Bluff	Bluff
Bluffs	Bluffs
Boulevard	Boulevard
Bend	Bend
Branch	Branch
Boardwalk	Boardwalk
Bridge	Bridge
Brook	Brook
Brooks	Brooks
Bottom	Bottom
Bypass	Bypass
Bayou	Bayou
Cay	Cay
Centre	Centre
Chase	Chase
Circle	Circle
Circles	Circles
Club	Club
Cliff	Cliff
Cliffs	Cliffs
Close	Close
Common	Common
Commons	Commons
Concourse	Concourse
Corner	Corner
Corners	Corners

County Road	County Road
County Touring Route	County Touring Route
Camp	Camp
Cape	Cape
Crescent	Crescent
Creek	Creek
Course	Course
Crest	Crest
Causeway	Causeway
Court	Court
Center	Center
Centers	Centers
Courts	Courts
Curve	Curve
Cove	Cove
Coves	Coves
Canyon	Canyon
Dale	Dale
Dam	Dam
Drive	Drive
Drives	Drives
Driveway	Driveway
Divide	Divide
End	End
Esplanade	Esplanade
Estate	Estate
Estates	Estates
Expressway	Expressway
Extension	Extension
Extensions	Extensions
Fall	Fall
Farm	Farm
Field	Field
Fields	Fields
Falls	Falls
Flat	Flat
Flats	Flats
Ford	Ford
Fords	Fords
Forge	Forge
Forges	Forges
Fork	Fork
Forks	Forks
Forest	Forest
Ferry	Ferry
Fort	Fort
Freeway	Freeway
Gate	Gate
Garden	Garden
Gardens	Gardens
Glen	Glen
Glens	Glens
Grounds	Grounds
Green	Green

CLDXF_PostType(cont)

Greens	Greens
Grove	Grove
Groves	Groves
Gateway	Gateway
Harbor	Harbor
Harbors	Harbors
Hill	Hill
Hills	Hills
Hollow	Hollow
Heights	Heights
Haven	Haven
Highway	Highway
Interstate	Interstate
Inlet	Inlet
Island	Island
Isle	Isle
Islands	Islands
Junction	Junction
Junctions	Junctions
Knoll	Knoll
Knolls	Knolls
Key	Key
Keys	Keys
Land	Land
Lock	Lock
Locks	Locks
Lodge	Lodge
Loaf	Loaf
Light	Light
Lights	Lights
Lake	Lake
Lakes	Lakes
Lane	Lane
Landing	Landing
Loop	Loop
Mall	Mall
Meadow	Meadow
Meadows	Meadows
Mewes	Mewes
Mews	Mews
Mill	Mill
Mills	Mills
Manor	Manor
Manors	Manors
Mission	Mission
Mount	Mount
Mountain	Mountain
Mountains	Mountains

Motorway	Motorway
Neck	Neck
New York City Highway	New York City Highway
New York State Route	New York State Route
Overpass	Overpass
Orchard	Orchard
Outlook	Outlook
Oval	Oval
Overlook	Overlook
Park	Park
Pass	Pass
Path	Path
Pier	Pier
Pike	Pike
Parkway	Parkway
Parkways	Parkways
Place	Place
Plain	Plain
Plains	Plains
Plaza	Plaza
Pine	Pine
Pines	Pines
Pond	Pond
Prairie	Prairie
Promenade	Promenade
Port	Port
Ports	Ports
Passage	Passage
Point	Point
Points	Points
Radial	Radial
Ramp	Ramp
Road	Road
Ridge	Ridge
Ridges	Ridges
Roads	Roads
Roadway	Roadway
Rise	Rise
River	River
Ranch	Ranch
Row	Row
Rapid	Rapid
Rapids	Rapids
Rest	Rest
Route	Route
Rue	Rue
Run	Run
Shopping Center	Shopping Center
Shoals	Shoals

CLDXF_PostType(cont)

Shoal	Shoal
Shore	Shore
Shores	Shores
Skyway	Skyway
Slip	Slip
Summit	Summit
Spring	Spring
Springs	Springs
Spur	Spur
Spurs	Spurs
Square	Square
Squares	Squares
Street	Street
Station	Station
State Touring Highway	State Touring Highway
State Parkway	State Parkway
State Route	State Route
Stravenue	Stravenue
Stream	Stream
Streets	Streets
Terrace	Terrace
Trailer Park	Trailer Park
Turnpike	Turnpike
Track	Track
Trace	Trace
Trafficway	Trafficway
Truck Trail	Truck Trail
Trail	Trail
Trailer	Trailer
Thruway	Thruway
Tunnel	Tunnel
Turn	Turn

Tower	Tower
Towers	Towers
Union	Union
Unions	Unions
Underpass	Underpass
Federal Highway	Federal Highway
United States Route	United States Route
Vale	Vale
Viaduct	Viaduct
Vista	Vista
Ville	Ville
Village	Village
Villages	Villages
Villas	Villas
Valley	Valley
Valleys	Valleys
View	View
Views	Views
Walk	Walk
Walks	Walks
Wall	Wall
Way	Way
Ways	Ways
Woods	Woods
Wells	Wells
Wharf	Wharf
Well	Well
Wood	Wood
Crossing	Crossing
Crossroad	Crossroad
Crossroads	Crossroads

Supplementary Attribute Description

ACC: Arterial Classification Codes (ACCs) that categorize roads according to the level of travel mobility that they provide in the road network. Mobility refers to the volume of traffic that a stretch of road carries and the length of trip that it serves. Roads at the highest level of mobility serve the greatest number of trips and the longest trips. Conversely, high-mobility roads provide the lowest level of access to property. Low-level, local roads serve that function.

This system uses a six-level system, with 6 as the lowest level, 1 as the highest. A list of the Arterial Classification Codes is in Table 2 below. Ascending through the levels, each step represents an increase in relative importance to routing – an increase in the number and length of routes using the road. In general, a step up also represents an increase in traffic-volume capacity of the road, an increase in vehicle operating speed, and a decrease in travel time. (This system is similar to, but not tied to, the Federal Highway Administration's Highway Functional Classification System.)

The primary use of ACCs is in automated routing. Using ACCs, a routing program calculates the maximum use of the highest-level roads that are appropriate to the scale of the desired trip. This is analogous to the route planning of a typical driver, who uses the highest-speed road available, within the geographic range established by the origin and destination points. The hierarchical nature of the ACC levels allows for more efficient access to relevant routing networks for a given route, and in turn reduces system requirements.

The implementation of ACC also supports its usage for map rendering. Using ACC as a cartographic tool allows for a variety of enhancements including:

1. The display of "important" roads.
2. Reduction of line density and visual clutter based on scale of map
3. "Visual Routing" on paper maps (the end user chooses a route based on ACC display)
4. Effective zoom layering in digital applications

FCC: Feature classification code used to identify the most noticeable characteristics of a road including whether the road has limited access or is divided, gated, seasonal, a ramp, a traffic circle, a service road, a cul-de-sac, a trail/off road, a walkway, an alley, a parking area, or a planned road.

This series of Feature Class Codes (FCC) provides more detailed information on the classification of a line segment. A list of the Feature Class Codes is in Table 3 below.

AddressSource: Indicates the address resource used to populate that segment.

FromToDirection and ToFromDirection: These fields convey information about the described direction of travel along roads. This directional is distinct from the existing directional suffix field in that it is not part of the recognized street name. While the navigation direction can correspond to the actual geographic direction of the street, it can and does deviate. For example, I-90 Westbound runs south along Lake Erie. To accommodate single carriageway streets, two fields are used. Values are: N, S, E, W, NE, SE, NW, SW.

FromToCost and ToFromCost: Represents From-To impedance in minutes where cost is calculated by dividing the distance by the speed. Distance is stored in the Shape_Leng field in meters and average travel speed is stored in the Speed field in miles per hour. Therefore travel time (Cost) is calculated as:

$$\text{Cost} = [\text{Shape_leng}] / [\text{Speed}]$$

The following formula is used to calculate the time cost in meters per minute which is how the data is stored in these fields:

$$\text{FromToCost or ToFromCost} = [\text{Shape_leng}] * 60 / [\text{Speed}] * 1609$$

FromZlev and ToZlev: All segments will contain node elevation (segment-end elevation) values to indicate planar connectivity. The default value is 0, but can range from -8 to 99 as needed. Negative Zlev values (except -9, which is reserved for alternate names), represent features which are underground. A feature at Zlev=0 is on the surface of the Earth, whether or not it is under a manmade structure. For example, a bridge

spanning a river or street would have a Zlev ≥ 1 . Multi-level bridges, such as the George Washington Bridge, will be represented by multiple chains. Chains will be duplicated as necessary to maintain traffic flow for each level. Node elevation values will be used to distinguish each layer from the next. These segments will each have unique NYSSStreetID, not equal to layers above or below them. This will be represented by parallel segments with a separation of .00003 (30 micro degrees, approximately 10 feet.).

GeometryAccuracy: In most cases, when GeometryAccuracy = T, the street segment has a positional accuracy error of less than or equal to 12 meters. If GeometryAccuracy = F, then the street segment was not found on the orthoimagery or other high resolution data source used for realignment but has been confirmed to exist. This only indicates that its accuracy is unknown.

GeometrySource: Indicates the geometry resource used to align the segment.

NameSource: Indicates the street name resource used to populate the segment.

OneWay: The direction of traffic movement along a road in relation to the FROM node and TO node of the line segment representing the road in the GIS data where "TF" is one-way in the To-From direction, "FT" is one-way in the From-To direction, and <null> indicates that travel is permitted in both directions.

Sequence: This number represents the number of alternate names a segment has. It will start at 1 and increase to the number of the last alternate name. For example, if the segment has five alternate names then the sequence number will be 1- 5 for that segment id.

Shield: Indicates the type of route shield where "I" = Interstate, "IC" = Interstate Connector, "U" = US Highway, "UB" = US Highway Business Route, "UC" = US Highway Connector, "S" = State Touring Route, "SH" = State 900 Route, "SC" = State Highway Connector, "P" = Parkway, "C" = County Road, "CT" = County Touring Route.

Jurisdiction: Code representing the ownership of a street segment. Missing codes (04, 05, 07, 08, 11) are codes that have been retired.

Table 2 – Generalized ACC Level Descriptions

ACC Class	Approach				
	Feature Guidelines (95% Rule)	Geographic Significance	Routing Importance	Cities Connected (Ranked by Population)	Intersection Controls
	<ul style="list-style-type: none"> - Limited Access - Divided - 1 & 2 Digit Interstates - 4+ Lanes - 65+ MPH Maximum Speed Limit - 45+ MPH Minimum Speed Limit - Dedicated HOV Lanes - Allows Truck / Commercial Traffic - May Have Tolls - Non-Commercial POI's 	<ul style="list-style-type: none"> - North America / Continental 	<ul style="list-style-type: none"> - Largest / Longest Highways - Connect Major / Largest Cities - "Coast-to-Coast" Origin to Destination - Interstate Commerce / Travel - Intrastate Commerce / Travel 	150	<ul style="list-style-type: none"> - Limited Access
	<ul style="list-style-type: none"> - Limited Access - Divided - 3 Digit Interstates, Freeways, Expressways & Beltways - 4+ Lanes - 55+ MPH Maximum Speed Limit - 45+ MPH Minimum Speed Limit - Dedicated HOV Lanes - Allows Truck / Commercial Traffic - May Have Tolls - Non-Commercial POI's - Regulated Access / Ramp Controls 	<ul style="list-style-type: none"> - State / Region - Inter-Metropolitan Area 	<ul style="list-style-type: none"> - Long / Large Highways - Beltways / Secondary Freeways - Connect Major Cities - Connect Major Suburbs with Metro Core - Intrastate Commerce - Recreational Travel 	600	<ul style="list-style-type: none"> - Limited Access
	<ul style="list-style-type: none"> - Dedicated Turn Lanes - 2-6 Lanes - 45-55 MPH Maximum Speed Limit - Numerous Intersections / Maintains Right-of-Way - Scenic Highways - Commercial / Non-Commercial POI's - Allows Truck / Commercial Traffic - Dedicated Turn Lanes - Overwhelmingly Commercial 	<ul style="list-style-type: none"> - Intra-State - Intra-Metropolitan Area 	<ul style="list-style-type: none"> - Medium Highways - US/State Highway Network - Connect Minor Cities - Intrastate Commerce - Recreational Travel 	20,000	<ul style="list-style-type: none"> - Traffic Lights
	<ul style="list-style-type: none"> - 2-4 Lanes - 35-45 MPH Maximum Speed Limit - Dedicated Turn Lanes - Numerous Intersections / Numerous Stops - Defined "Grid" - Commercial / Non-Commercial POI's - Connects the Non-Limited & Limited Access Network - Restricted Truck / Commercial Traffic - Rarely Dirt - Predominately Mixed Use (Commercial / Residential) 	<ul style="list-style-type: none"> - City / County 	<ul style="list-style-type: none"> - Local Arteries - Retail Commerce - Recreational Activities - Initial Route Origin / Final Destination 	<ul style="list-style-type: none"> - Every town / village 	<ul style="list-style-type: none"> - Traffic Lights - Stop Signs
	<ul style="list-style-type: none"> - Rarely Divided - 2 Lanes - 25-35 MPH Maximum Speed Limit - Few Dedicated Turn Lanes - Restricted Truck / Commercial Traffic - Commercial / Non-Commercial POI's - "Every Fourth Street" - Predominately Residential 	<ul style="list-style-type: none"> - Neighborhood 	<ul style="list-style-type: none"> - Neighborhood / Community Access - Initial Route Origin / Final Destination 	N/A	<ul style="list-style-type: none"> - Stop Signs
	<ul style="list-style-type: none"> - Very Rarely Divided - 1-2 Lanes - 15-25 MPH or Unposted Maximum Speed Limit - Highly Restricted Truck / Commercial Traffic - Lacks Dedicated Turn Lanes - Rarely has POI's - Includes Apartment Developments / Private Drives - Overwhelming Residential - Includes "Business Parks" / Commercial Developments 	<ul style="list-style-type: none"> - Residential 	<ul style="list-style-type: none"> - Intraneighborhood Travel - Initial Route Origin / Final Destination 	N/A	<ul style="list-style-type: none"> - Stop Signs - Uncontrolled

Table 3 – Feature Class Codes (FCC) Descriptions

A	ROADS
A00	Road, major and minor categories unknown
A01	Road, unseparated
A02	Road, unseparated, in tunnel
A03	Road, unseparated, underpassing
A04	Road, unseparated, with rail line in center
A05	Road, separated
A06	Road, separated, in tunnel
A07	Road, separated, underpassing
A08	Road, separated, with rail line in center
A09	<i>not used</i>
A1	PRIMARY HIGHWAY WITH LIMITED ACCESS
A10	Primary road with limited access, major category
A11	Primary road with limited access or interstate hwy, unseparated
A12	Primary road with limited access or interstate hwy, unseparated in tunnel
A13	Primary road with limited access or interstate hwy, unseparated underpassing
A14	Primary road with limited access or interstate hwy, unseparated rail line in center
A15	Primary road with limited access or interstate hwy, separated
A16	Primary road with limited access or interstate hwy, separated in tunnel
A17	Primary road with limited access or interstate hwy, separated underpassing
A18	Primary road with limited access or interstate hwy, separated rail line in center
A19	<i>not used</i>
A2	PRIMARY ROAD WITHOUT LIMITED ACCESS
A20	Primary Highways without limited access, major category
A21	Primary Highways without limited access, unseparated
A22	Primary Highways without limited access, unseparated in tunnel
A23	Primary Highways without limited access, unseparated underpassing
A24	Primary Highways without limited access, unseparated rail line in center
A25	Primary Highways without limited access, separated
A26	Primary Highways without limited access, separated in tunnel
A27	Primary Highways without limited access, separated underpassing
A28	Primary Highways without limited access, separated rail line in center
A29	<i>not used</i>
A3	SECONDARY and CONNECTING ROAD
A30	Secondary state and county highways, major category
A31	Secondary state and county highways, unseparated
A32	Secondary state and county highways, unseparated in tunnel
A33	Secondary state and county highways, unseparated underpassing
A34	Secondary state and county highways, unseparated rail line in center
A35	Secondary state and county highways, separated
A36	Secondary state and county highways, separated in tunnel
A37	Secondary state and county highways, separated underpassing
A38	Secondary state and county highways, separated rail line in center
A39	Secondary state and county highways, seasonal *

A4	LOCAL, NEIGHBORHOOD, and RURAL ROAD
A40	Local, neighborhood, rural road, city street, major category
A41	Local, neighborhood, rural road, city street, unseparated
A42	Local, neighborhood, rural road, city street, unseparated in tunnel
A43	Local, neighborhood, rural road, city street, unseparated underpassing
A44	Local, neighborhood, rural road, city street, unseparated rail line in center
A45	Local, neighborhood, rural road, city street, separated
A46	Local, neighborhood, rural road, city street, separated in tunnel
A47	Local, neighborhood, rural road, city street, separated underpassing
A48	Local, neighborhood, rural road, city street, separated rail line in center
A49	Local, neighborhood, rural road, city street, seasonal *
A5	VEHICULAR TRAIL
A50	Vehicular (4WD) Trail, major category
A51	Vehicular (4WD) Trail, unseparated
A52	Vehicular (4WD) Trail, unseparated in tunnel
A53	Vehicular (4WD) Trail, unseparated underpassing
A54	Gated, all vehicles *
A55	Gated, 4WD Only *
A56	Gated, seasonal, all vehicles *
A57	Gated, seasonal, 4WD Only *
A58	<i>not used</i>
A59	Vehicular (4WD) Trail, seasonal *
A6	ROADS with SPECIAL CHARACTERISTICS
A60	At-grade ramp or connecting road not associated with a limited access highway
A61	Cul-de-Sac, the closed end of a road that forms a loop or turn around
A62	Traffic Circle, the portion of a road or intersection of roads forming a roundabout
A63	Access Ramp, the portion of a road that forms a cloverleaf or limited access interchange
A64	Service Road, provides access to businesses and rest areas
A65	Ferry Crossing, Passenger, Seasonal
A66	Ferry Crossing, Passenger, Year-Round
A67	<i>not used</i>
A68	Ferry Crossing, Vehicular, Seasonal
A69	Ferry Crossing, Vehicular, Year-Round
A7	ROAD as OTHER THOROUGHFARE
A70	Other Thoroughfare major category
A71	Walkway, for pedestrians, usually unnamed
A72	Stairway, stepped road for pedestrians, usually unnamed
A73	Alley, road for service vehicles, located at the rear of buildings
A74	Driveway, usually privately owned and unnamed
A75	Road, parking area
A76	Non-motorized Trail *
A77	Snowmobile Trail *
A78	Planned Road – unknown construction start date *
A79	<i>not used</i>

* Codes added in January 2013 and are not complete statewide. They are being updated as counties provide the changes.

FCC Code Definitions

Gated: Any transportation corridor where motorized vehicular traffic is intentionally restricted by the presence of a physical barrier.

Seasonal: A transportation corridor that is not open year-round for motorized vehicular use (e.g. closed in winter; restricted by easement), with posted signs indicating seasonal status.

Snowmobile Trail: A transportation corridor that is seasonally accessible by snowmobiles, but otherwise not accessible to motorized transportation.

Non-motorized Trail: Any transportation corridor that is open only to non-motorized uses (e.g. foot, bicycle or horse trail).

4WD: 4WD Roads are dirt roads that do not have a name or addressing. They will carry a Jurisdiction of 15 (Off-Road) unless it is a Private road; then it would be a Jurisdiction of 14.