

NYS 9-1-1 GIS Standards Workgroup Webinar

April 25, 2013

Agenda

1. Update on NENA Standards

- NENA Document Approval Process
- Civic Location Data Exchange Format (CLDXF)
- NG9-1-1 GIS Data Model
- Site/Structure Address Point

2. SAM Project

- Tentative Production Schedule
- QA/QC Procedures
- Workgroup Input Needed: Address point placement for address ranges in parcel data

3. US Census Bureau Addressing Meeting

4. Next webinar – 6/20/2013

NENA Document Approval Process

Step	Description	INF	STA/ REQ
1	Issue submitted to NENA	X	X
2	Development Committee rejects issue or accepts & assigns issue	X	X
3	Workgroup develops document	X	X
4	OPTIONAL – Authoring Committee review	O	O
5	Workgroup reviews and responds to comments	O	O
6	All Development Committee review	X	X
7	Workgroup reviews and responds to comments	X	X
8	Public Review	---	X
9	Workgroup reviews and responds to comments	---	X
10	NENA Board review and final approval	X	X
11	Document published	X	X

Update on NENA Standards

- *Civic Location Data Exchange Format Standard*
 - Parses addresses into smallest components
 - XML used to share data components in a NG9-1-1 system
- *NG 9-1-1 GIS Data Model Standard*
 - Identifies the GIS data layers & defines attributes
- **Site /Structure Address Point GIS Data for 9-1-1**
 - Where to place a point & how many points?

NENA Standards

NG9-1-1 CLDXF Standard

- ✓ Standard completed & submitted to NENA leadership for review:
 - ✓ NENA Authoring Committee Review
 - ✓ NENA Development Committee Review
 - ✓ Public review
- ✓ NENA Workgroup reviews comments & updates document after each review
- ✓ Second public review (ended 10/5/2012)
- ✓ NENA Workgroup reviews comments & updates document
- Revised standard submitted for publication (expected May or June 2013)

Address Number Elements

NENA CLDXF

Address Number Prefix

Address Number

Address Number Suffix

FGDC

AddressNumberPrefix

AddressNumber

AddressNumberSuffix

PIDF-LO

HNP

HNO

HNS

Street Name Elements

NENA CLDXF

Street Name Pre Modifier
Street Name Pre Directional
Street Name Pre Type
Street Name Pre Type Separator
Street Name
Street Name Post Type
Street Name Post Directional
Street Name Post Modifier

FGDC

StreetNamePreModifier
StreetNamePreDirectional
StreetNamePreType
SeparatorElement
StreetName
StreetNamePostType
StreetNamePostDirectional
StreetNamePostModifier

PIDF-LO

PRM
PRD
STP
STPS
RD
STS
POD
POM

**The elements continue to be in alignment with the PIDF-LO but now are more in alignment with FGDC. Removed leading/trailing from directionals and hyphens.*

NENA Standards

NG9-1-1 Data Model Standard

- ✓ Standard completed & submitted to NENA leadership
- ✓ NENA Authoring Committee Review (ended 6/22/2012)
- ✓ **NENA Workgroup reviews comments & updates document**
- Revised standard submitted to NENA leadership for review:
 - NENA Development Committee Review – expected June 2013 (10 business days)
 - Public review (15 business days)
- NENA Workgroup reviews comments & updates document after each review
- Revised standard submitted for publication

NENA Standards

Site/Structure Address Point GIS Data for 9-1-1

- ✓ NENA Workgroup initiated (8/15/2012)
- ✓ **Develop standard**
- Standard completed & submitted to NENA leadership for review:
 - NENA Authoring Committee Review – expected by end of 2013 (10 business days)
 - NENA Development Committee Review (10 business days)
 - Public review (15 business days)
- NENA Workgroup reviews comments & updates document after each review
- Revised standard submitted for publication

SAM Production Schedule

1. NYS source data preparation (2 weeks)
 - Obtain updated data from County
 - Revise Source Usage Document (SUD)
 2. Intrado production activities
 - SUD review (5 days)
 - Address Point Production (10-15 days)
 3. NYS QA/QC (10 days)
 4. Intrado makes corrections (5 days)
- Approximately one County delivered every 10 days

SAM Production Schedule

Counties in Production:

1. Hamilton
2. Lewis
3. Franklin
4. Cattaraugus
5. Allegany

Next Counties to be Processed (tentative order):

- Delaware
- St Lawrence
- Columbia
- Seneca
- Albany

SAM QA/QC Procedures

- Initial File Checks
 - Format
 - Extent
 - Schema
 - Completeness
- Review Random Sample of Points
 - Geometry accuracy
 - Attribute accuracy

ANSI Sampling

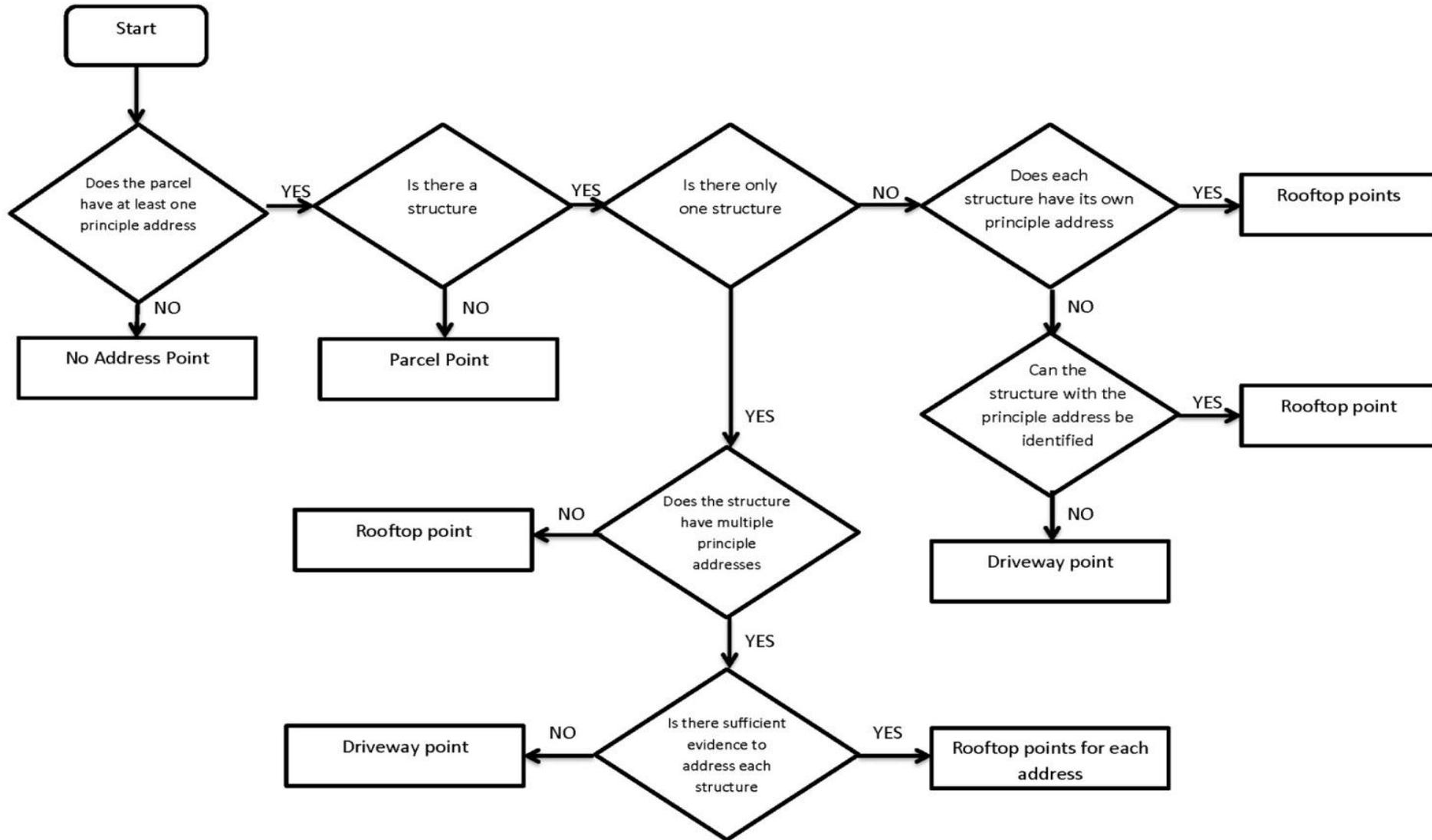
Tightened Inspection (Level III)		
Delivered Principle Points	Sample Size	Acceptance / Rejection
3,201 - 10,000	315	18 / 19
10,001 - 35,000	500	18 / 19
35,001 - 150,000	800	18 / 19
150,001 - 500,000	1250	18 / 19
500,001 and over	2000	18 / 19

Normal Inspection (Level II)		
Delivered Principle Points	Sample Size	Acceptance / Rejection
3,201 - 10,000	200	21 / 22
10,001 - 35,000	315	21 / 22
35,001 - 150,000	500	21 / 22
150,001 - 500,000	800	21 / 22
500,001 and over	1250	21 / 22

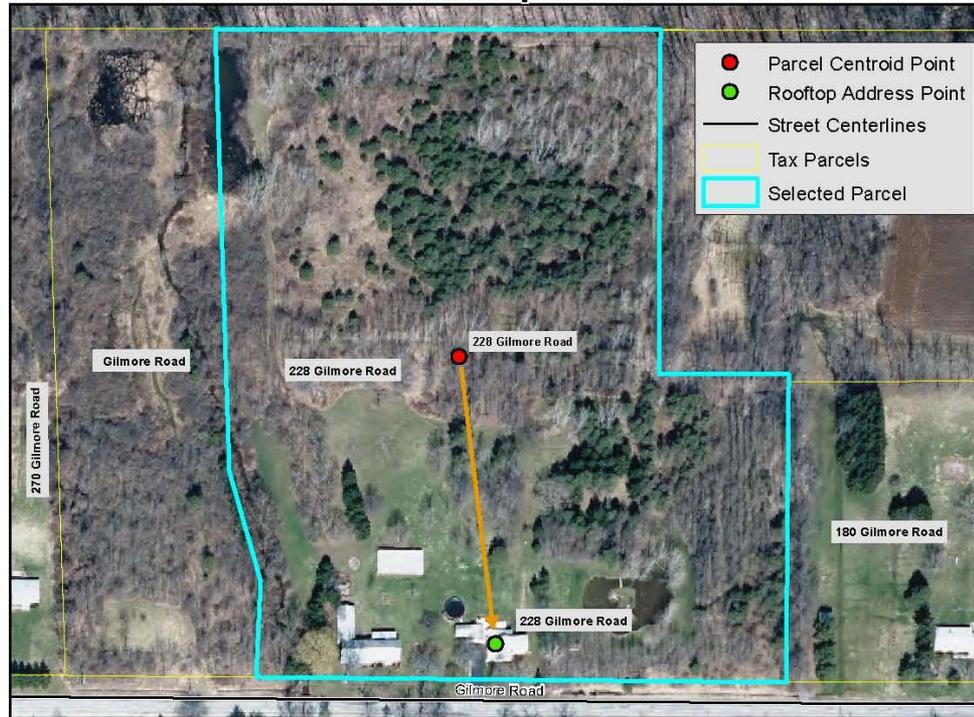
Workgroup Input Needed:

Address point placement for address ranges in parcel data

Point Placement Examples



Parcel Centroid Point to Rooftop Point



In this example, the parcel centroid address point has been moved to the visual center of the rooftop on the principle structure within the parcel boundary.

Source Data

Monroe County Address Points				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26248905402000010111100000	228	Gilmore Road	240	Rural Res

Monroe County Tax Parcel Data				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26248905402000010111100000	228	Gilmore Road	240	Rural Res



Single Parcel with Multiple Points Moved to Rooftop



In this example, the Duplex in the selected parcel has 2 principle addresses in the same parcel and requires 2 points. Since the address numbers are increasing to the right, the lower numbered point was placed on the left of the roof and the higher numbered point was placed on the right of the roof. Since the three parcels to the right only have one building per parcel, the addresses were matched between the centroid points and parcels and points were moved to the rooftop.

Source Data

NYS Address Points				
ADD_NUMBER	STREETNAME	CITY	STATE	POSTAL
3070	OLD STATE RD	SCHENECTADY	NY	12303
3072	OLD STATE RD	SCHENECTADY	NY	12303

Albany County Tax Parcel Data				
SBL	LOC_NUM	LOC_NAME	PROP_CLASS	
02701900020370000000	3070-3072	Old State Rd	220	



Multiple Building Mall Plaza with Parcel Centroid Point Moved to Driveway



In this example, the plaza is made up of multiple buildings and there is only one address for the whole strip mall. The parcel centroid is moved to the driveway entrance since there is not one principle structure within the parcel or subaddress information for each of the stores within the strip mall.

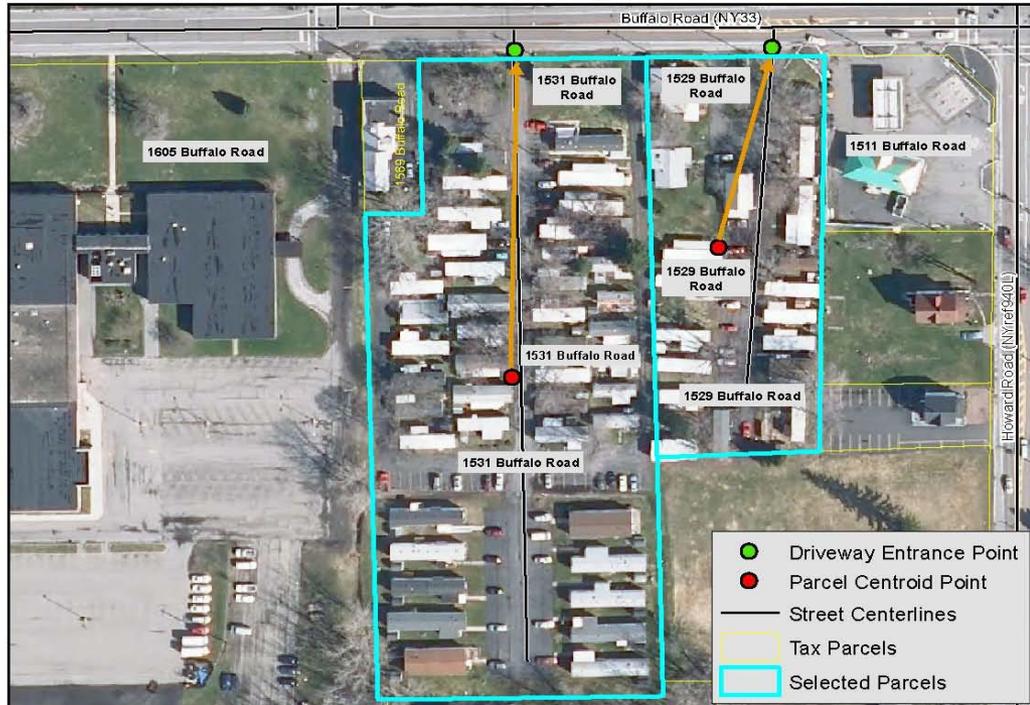
Source Data

NYS Address Points				
ADD_NUM	STREETNAME	CITY	STATE	POSTAL
1475	WESTERN AVE	ALBANY	NY	12203

Albany County Tax Parcel Data		
SBL	LOC_NUM	LOC_NAME
05200400020080000000	1475	Western Ave



Mobile Home Park with Single Point Moved to Driveway Entrance



In this example, there were only parcel centroid address points for these two mobile home communities. There were no addresses or points for the individual mobile homes in the data. Since there is no principle building within these two mobile home communities, the centroid points were moved to the driveway entrance.

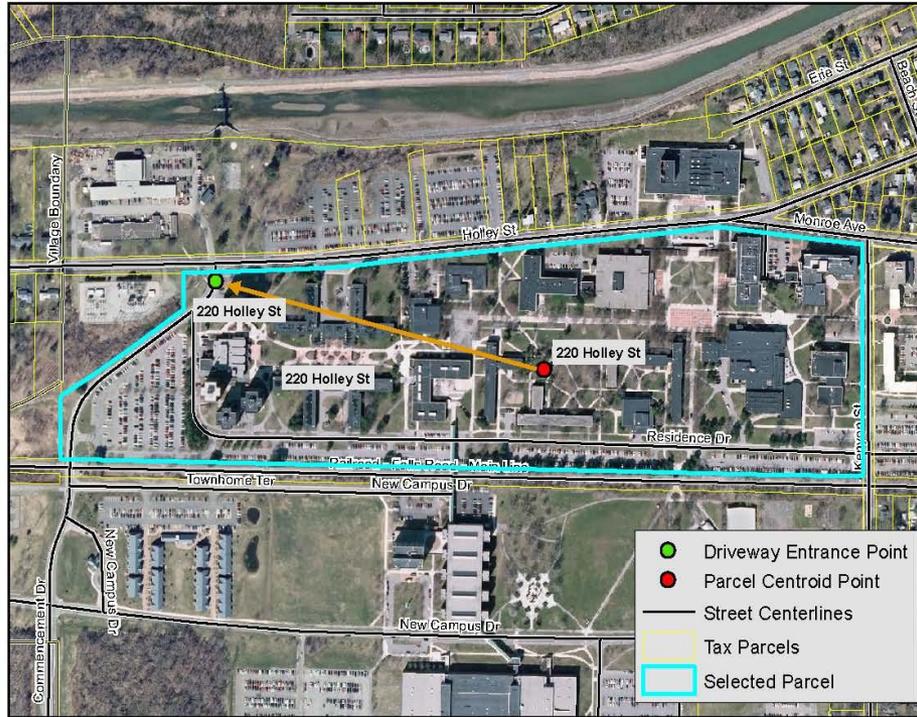
Source Data

Monroe County Address Points				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26260011910000030530000000	1531	Buffalo Rd	416	Mfg Housing Pk
26260011910000030540000000	1529	Buffalo Rd	416	Mfg Housing Pk

Monroe County Tax Parcel Data				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26260011910000030530000000	1531	Buffalo Rd	416	Mfg Housing Pk
26260011910000030540000000	1529	Buffalo Rd	416	Mfg Housing Pk



Single Address Point on Campus Moved to Driveway



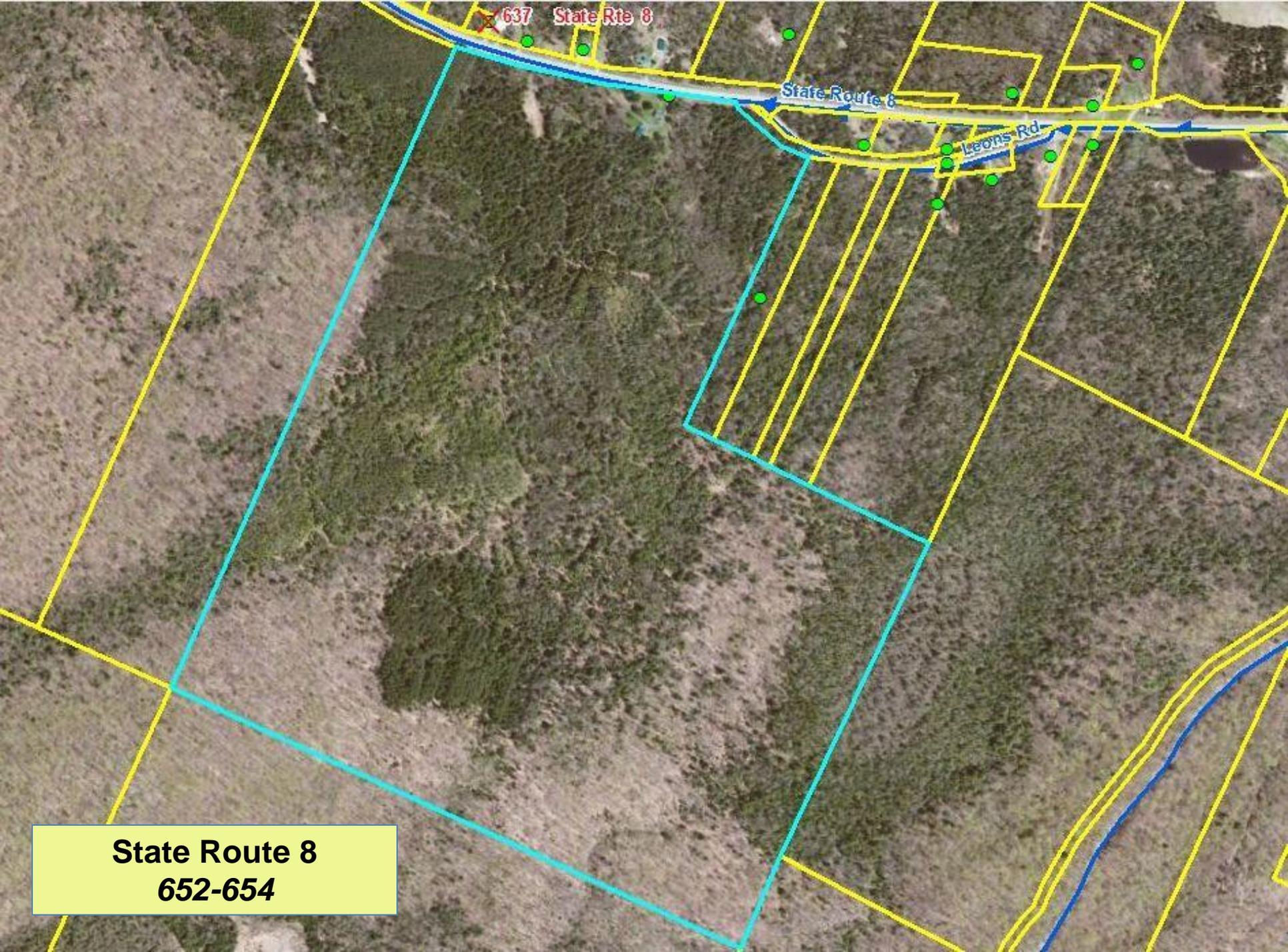
In this example, the college campus pictured has an address point in the center of the parcel. There were no additional address points for the individual buildings on campus so the centroid address point has been moved to the driveway street entrance off of Holley St.

Source Data

Monroe County Address Points				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26520106815000010101100000	220	Holley St	613	College/Univ

Monroe County Tax Parcel Data				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26520106815000010101100000	220	Holley St	613	College/Univ





637 State Rte 8

State Route 8

Leons Rd

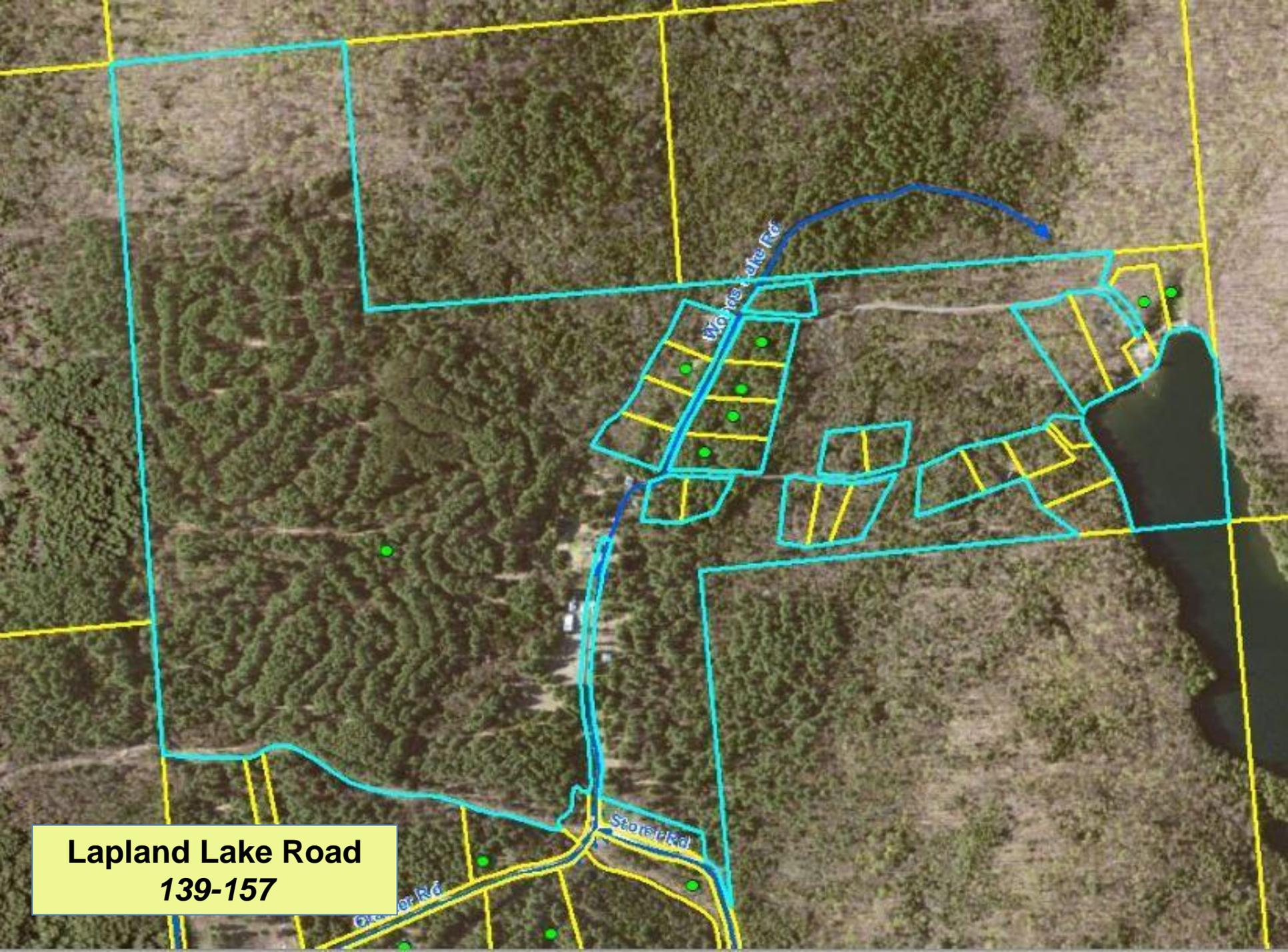
**State Route 8
652-654**

State Route 8

652 State Route 8 654 State Route 8

652-654 State Route 8

**State Route 8
652-654**



**Lapland Lake Road
139-157**



Identify

Identify from: <Top-most la

- FulDelivery
 - Lapland Lake
 - Lapland Lake

Location: -8,274,626.451 5,351

Field	Value
OBJECTID	10
Shape	Point
NYSAddressPointID	HAMI000010
CountyID	<null>
NYSStreetID	0
PrefixAddressNumber	<null>
AddressNumber	139
SuffixAddressNumber	<null>
PreModifier	<null>
PreDirectional	<null>
PreType	<null>
SeparatorElement	<null>
StreetName	Lapland Lake
PostType	Road
PostDirectional	<null>
PostModifier	<null>
SubAddress	<null>
LandmarkName	<null>
Building	<null>
Floor	<null>
Unit	<null>
Room	<null>
Seat	<null>

Identified 10 features

Lapland Lake Road
139-157



2431 US 9W

15 Moxley St

11 Moxley St

US 9W

2438 US 9W

7 Moxley

2437 US 9W

2440-2442 US 9W

33 US 9W

2441-2447 US 9W

2433 US 9W

213 Main

2450 US 9W

2433 US 9W

2453 US 9W

US 9W
2440-2442
2441-2447

Martins Hill Rd

2463 US 9W US 9W

2457 US 9W

US Census Bureau Addressing Meeting

- 2010 Census
 - Collected address points for the entire US
 - Title 13 prevents sharing
 - Cost will limit 2020 canvassing
 - Annual American Community Survey
- 2011 Address Summit
 - Five resultant pilot projects
 - Federal/State/Tribal/Local Address Management Coordination
- Geographic Support System Initiative (GSS I)
 - Improved coverage
 - Continual updates
 - Enhanced quality assessment and measurement
 - Improved partnerships

Next Workgroup Meeting:

June 20, 2013

Suggested Topics?