



CHARLOTTESM
CHARLOTTE DEPARTMENT
OF TRANSPORTATION

The Next Great Thing in Transit Signal Priority

ITS Carolinas Annual Meeting

February 2018

Charles Abel – City of Charlotte

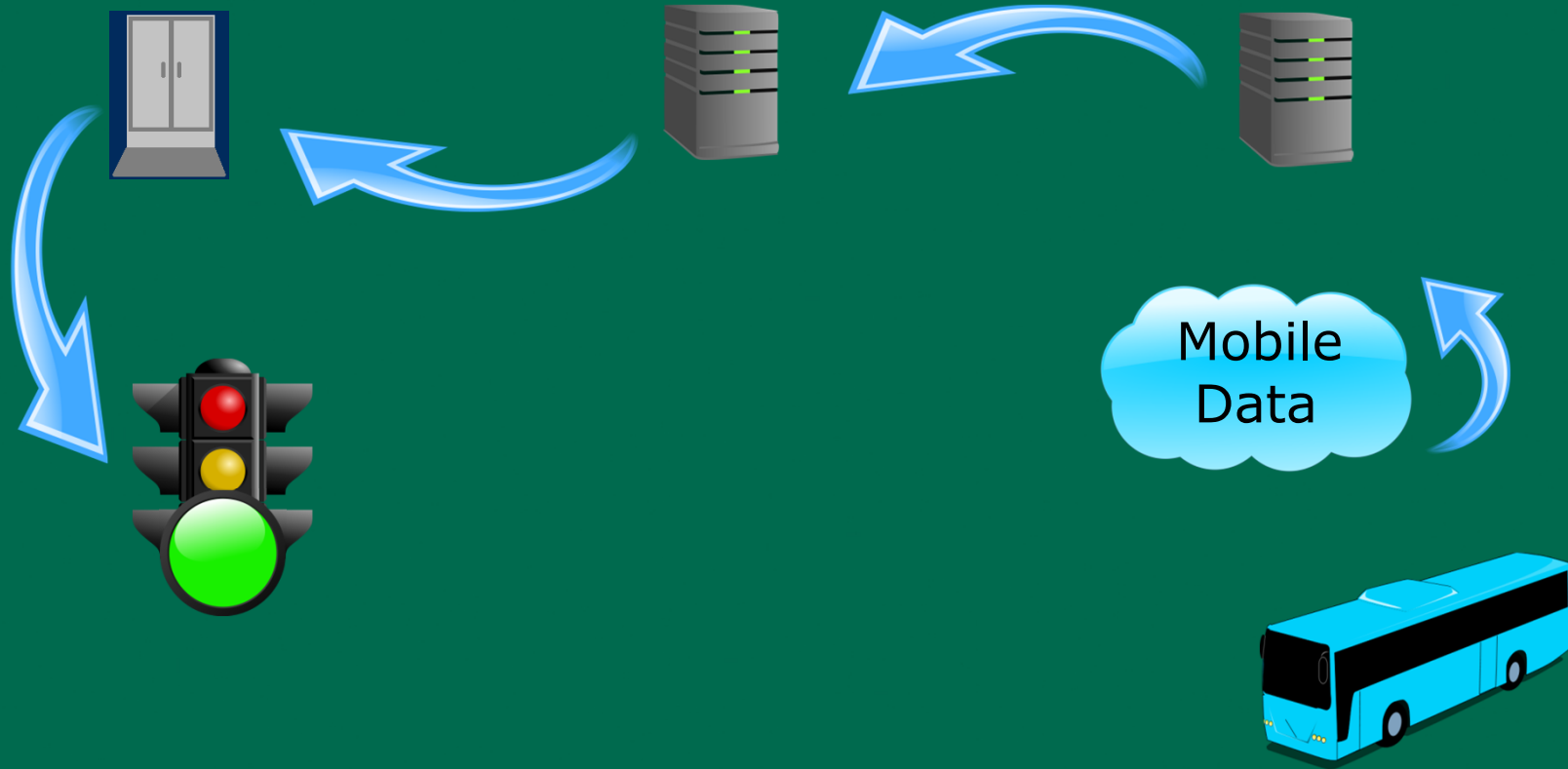
Jon Ringler – Econolite Systems

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The Next Great Thing







2.1 VISON

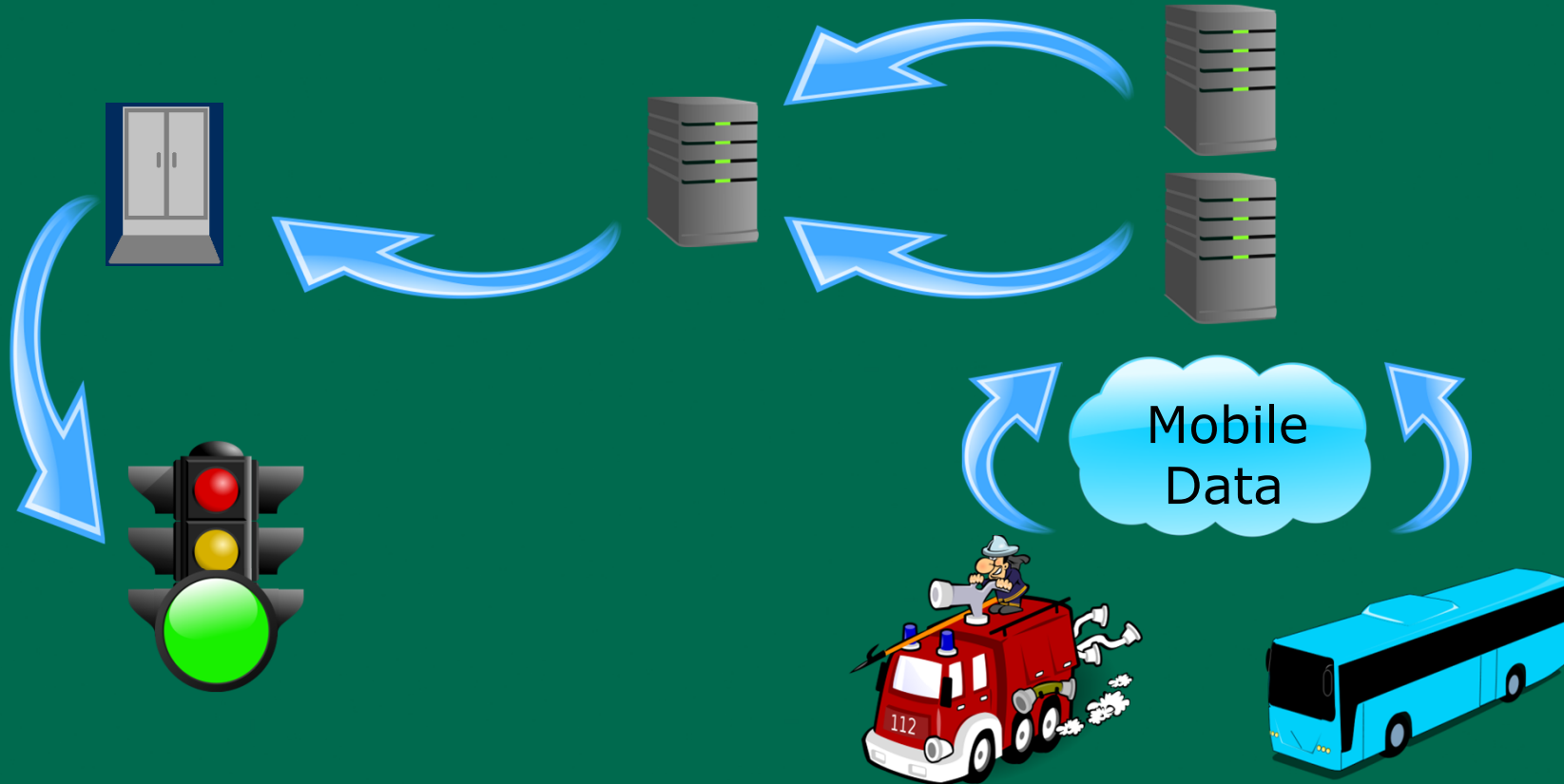
The Charlotte TSP Integration Project will develop and deploy a complete system which will allow the City of Charlotte, NC to provide Transit Signal Priority (TSP) at signalized intersections. The system will utilize features of Charlotte's three in-place Siemens' products (***TransitMaster, i2, NextPhase***) to provide an integrated system that:

- Identifies buses in need of priority treatments
- Transmits requests for TSP to the signalized intersections on the bus route
- Determines feasibility/method of providing localized TSP
- Initiates on-street TSP treatments in advance of the bus arrival
- Terminates TSP upon bus passage
- Logs and reports TSP requests and service provided

- 2008 – Began designing corridors to use Opticom for detecting buses and fire trucks
- 2010 - Opticom emitters installed on all buses and fire trucks; receivers at signalized intersections of the first corridor
- 2011 – City changes out signal software to Econolite
- 2012 – City equips 4th corridor for transit priority and emergency preemption
- 2013 – CATS receives additional grant to expand transit signal priority. City decides to try again with our new signal software vendor.



The Next Great Thing





CITY OF CHARLOTTE

About CATS

- 325 Fixed Route Vehicles
- 1,324 directional route miles
- 25 Million Passengers



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- 42 Fire Stations
- 80+ Frontline Vehicles
- 110,000 Calls Annually
- Average Response 4 Minutes 34 Seconds



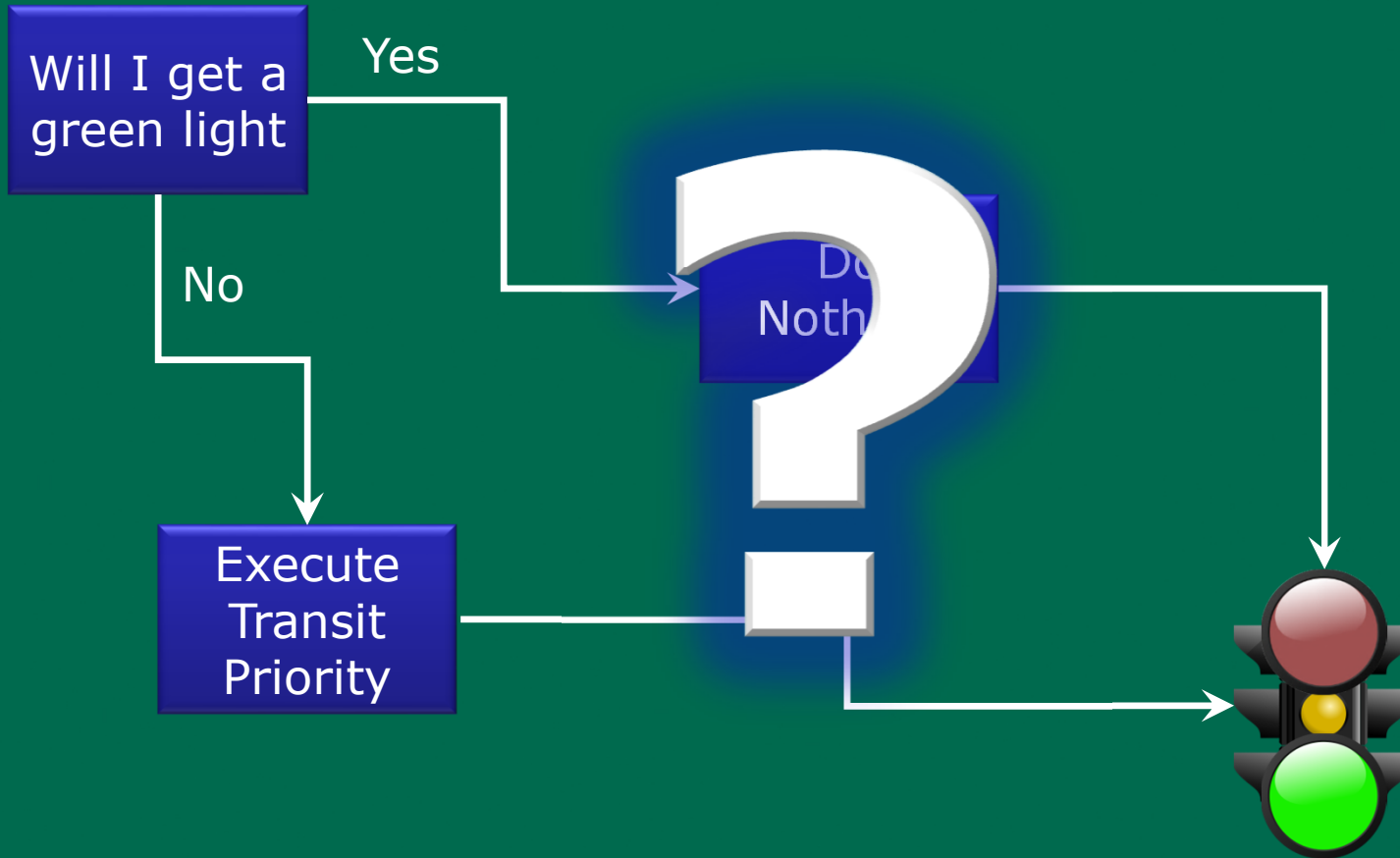
The logo for Econolite Systems features a green square icon with a white globe on the left. To its right, the word "ECONOLITE" is written in a bold, blue, sans-serif font, and the word "SYSTEMS" is written below it in a green, sans-serif font.

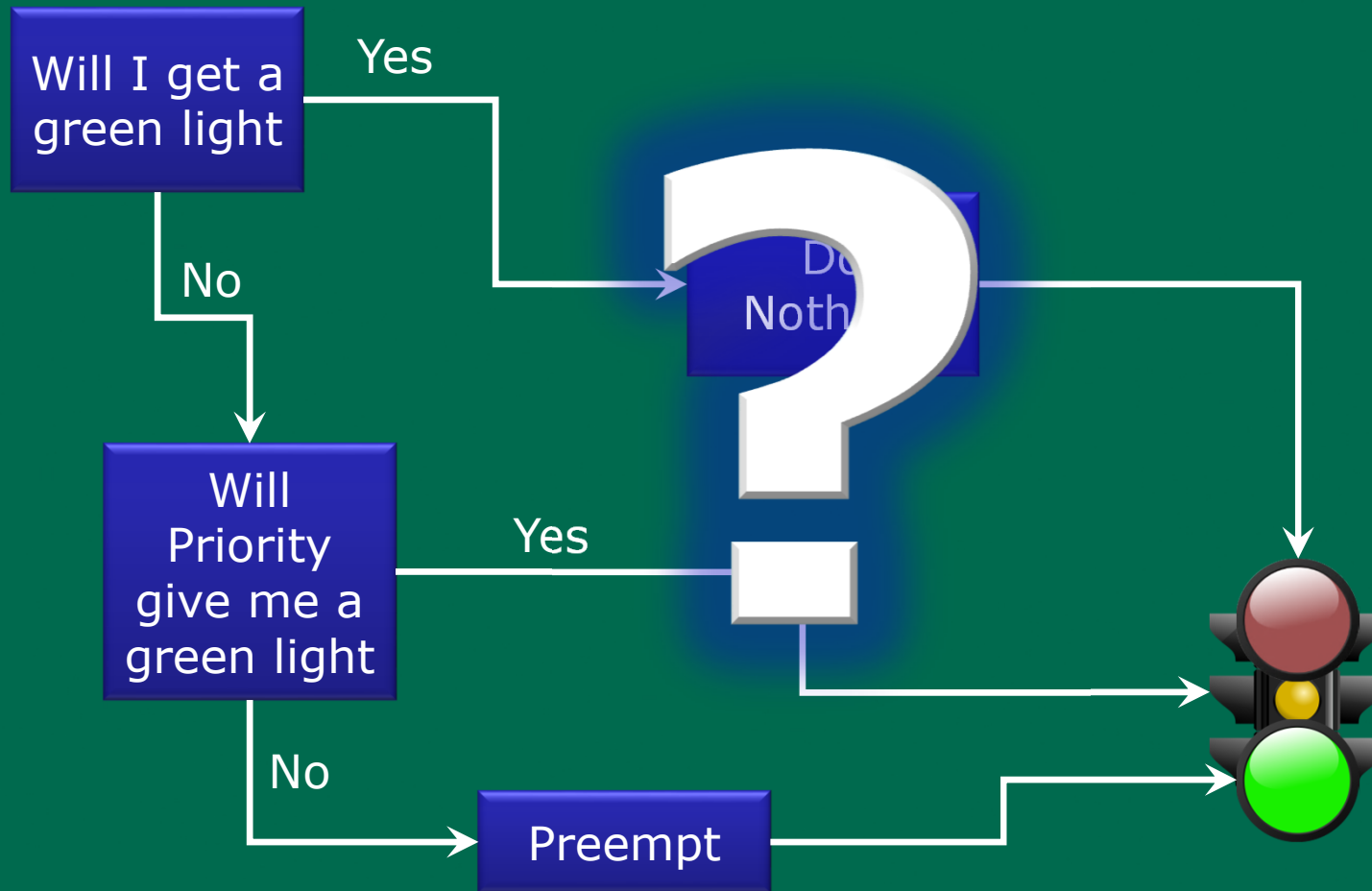
ECONOLITE
SYSTEMS



- Adjudicate Demand based on vehicle class
 - Emergency
 - Transit
 - Freight
 - Soccer dad
 - etc...
- Define level of aggressiveness per class
 - Eliminate / shorten / lengthen phases
 - Skip / drop / shorten pedestrian movement

- Infrastructure...less
 - No Opticom devices
 - No field maintenance
 - Heavier reliance on network
- Operation Value
 - CDOT: fewer preemptions, less total time in transition
 - Transit: Enhanced on-time performance
 - Fire: Improved Response Time
- Sense of the entire route





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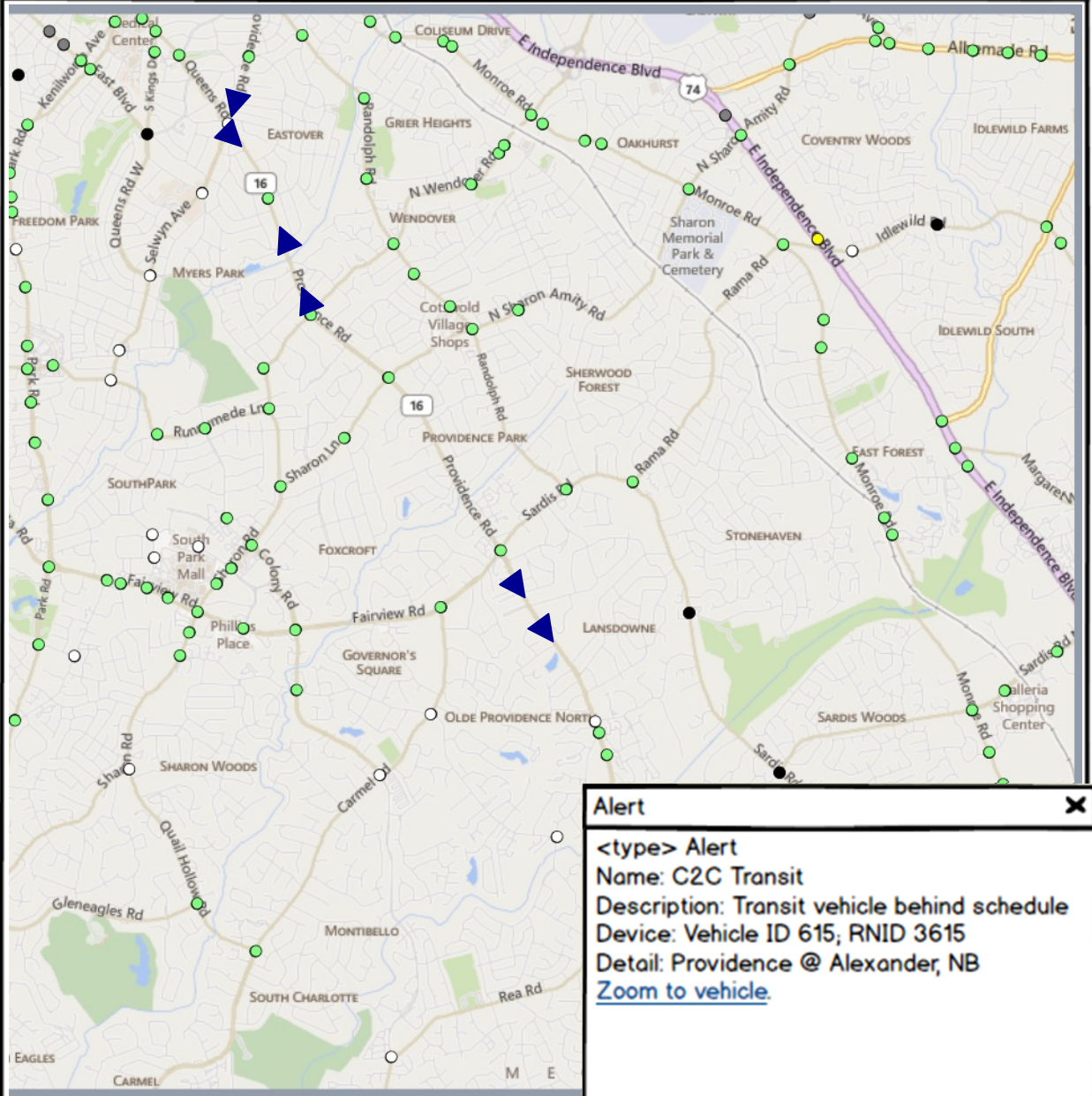
ECONOLITE
SYSTEMS



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CBD Area



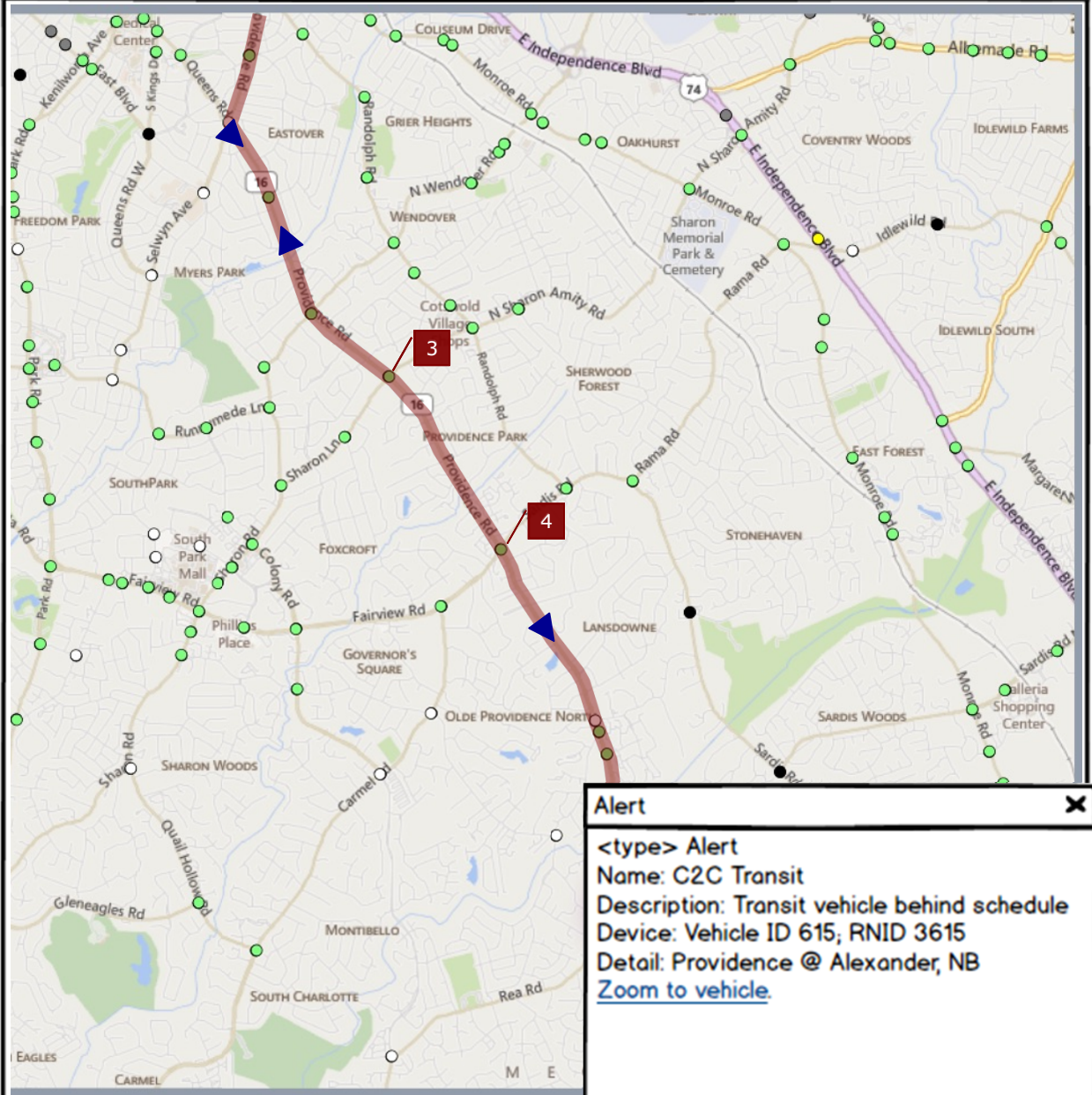
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 Description: Transit vehicle behind schedule
 Device: Vehicle ID 615; RNID 3615
 Detail: Providence @ Alexander, NB
[Zoom to vehicle.](#)

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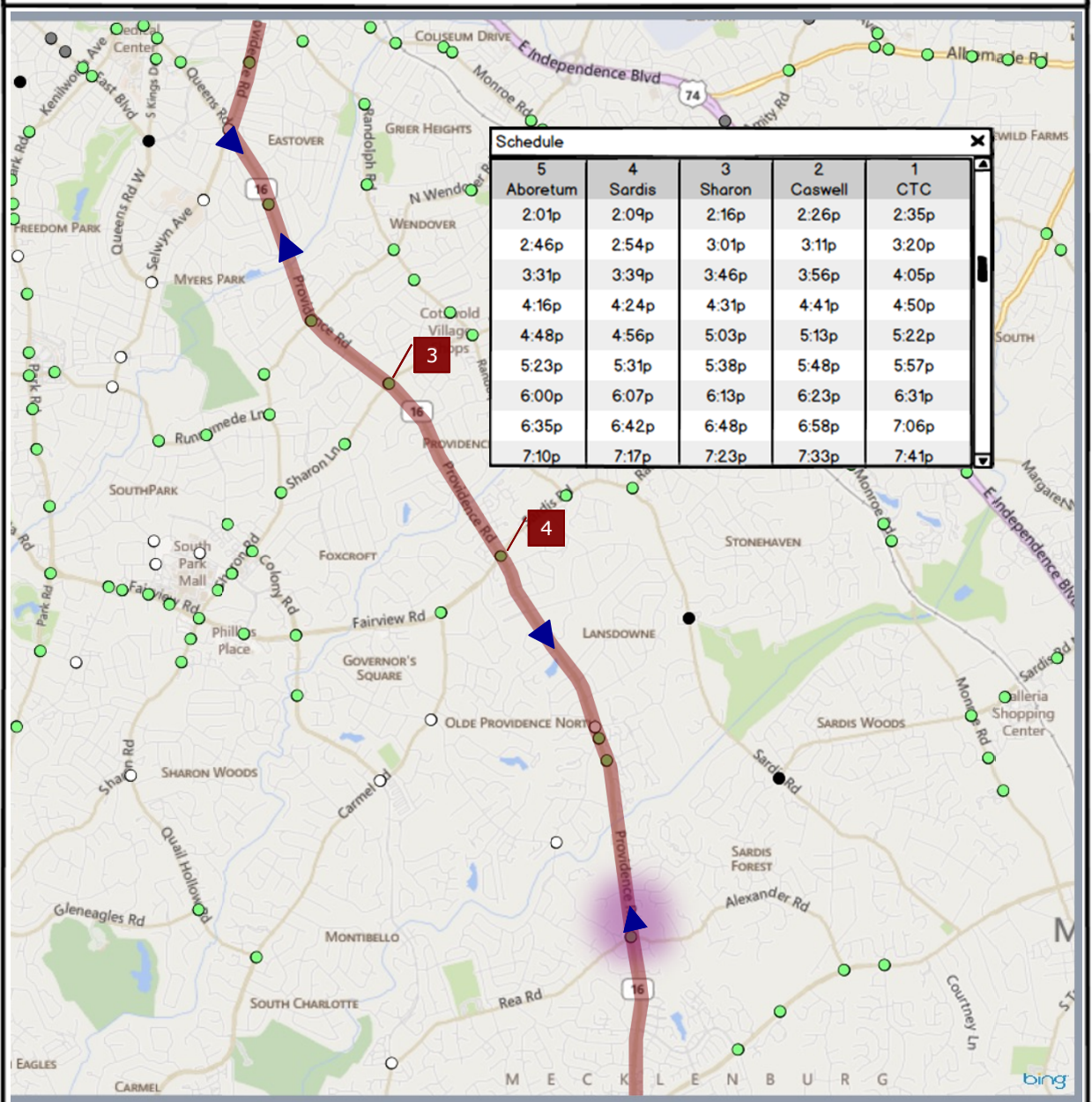
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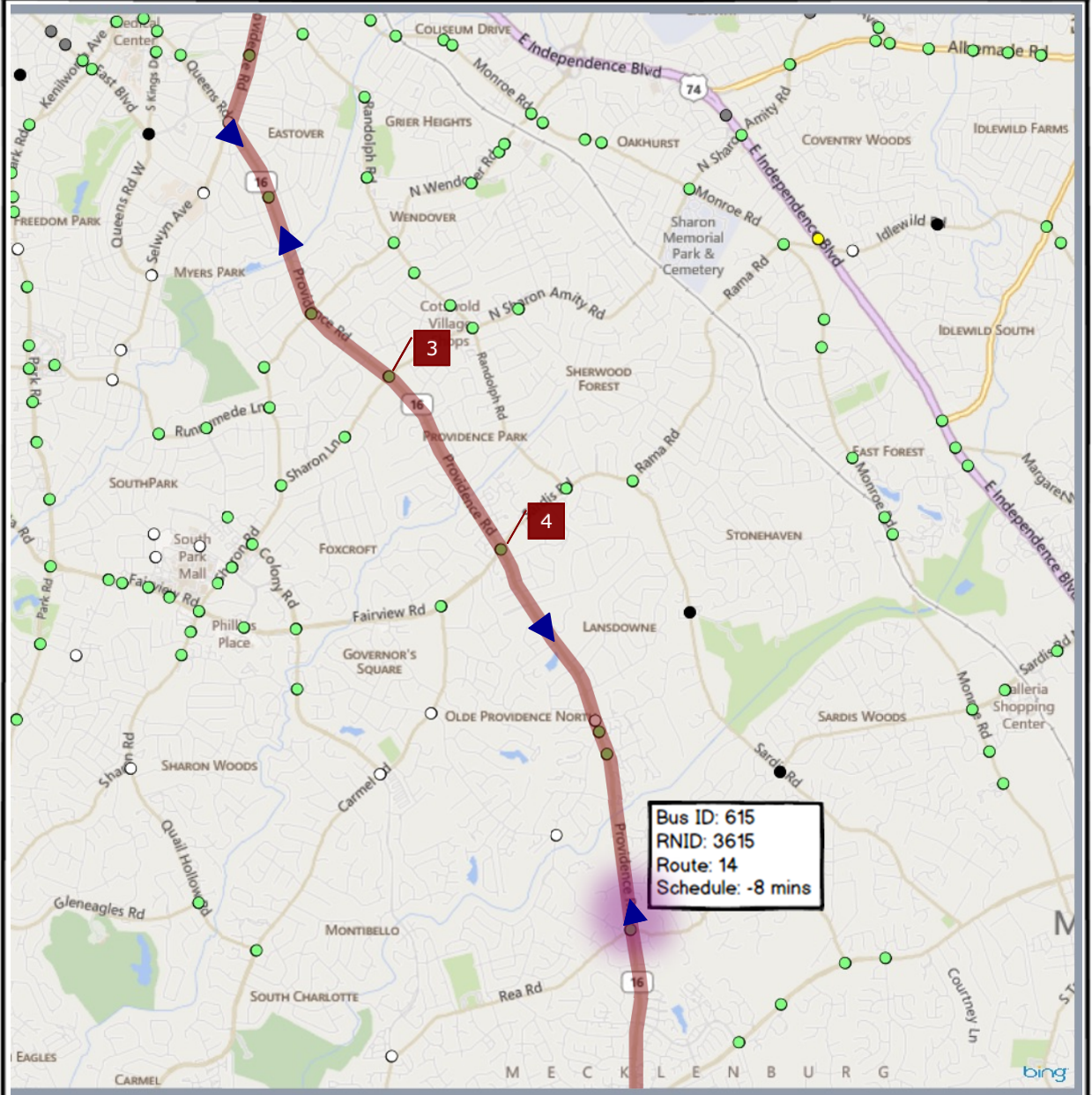
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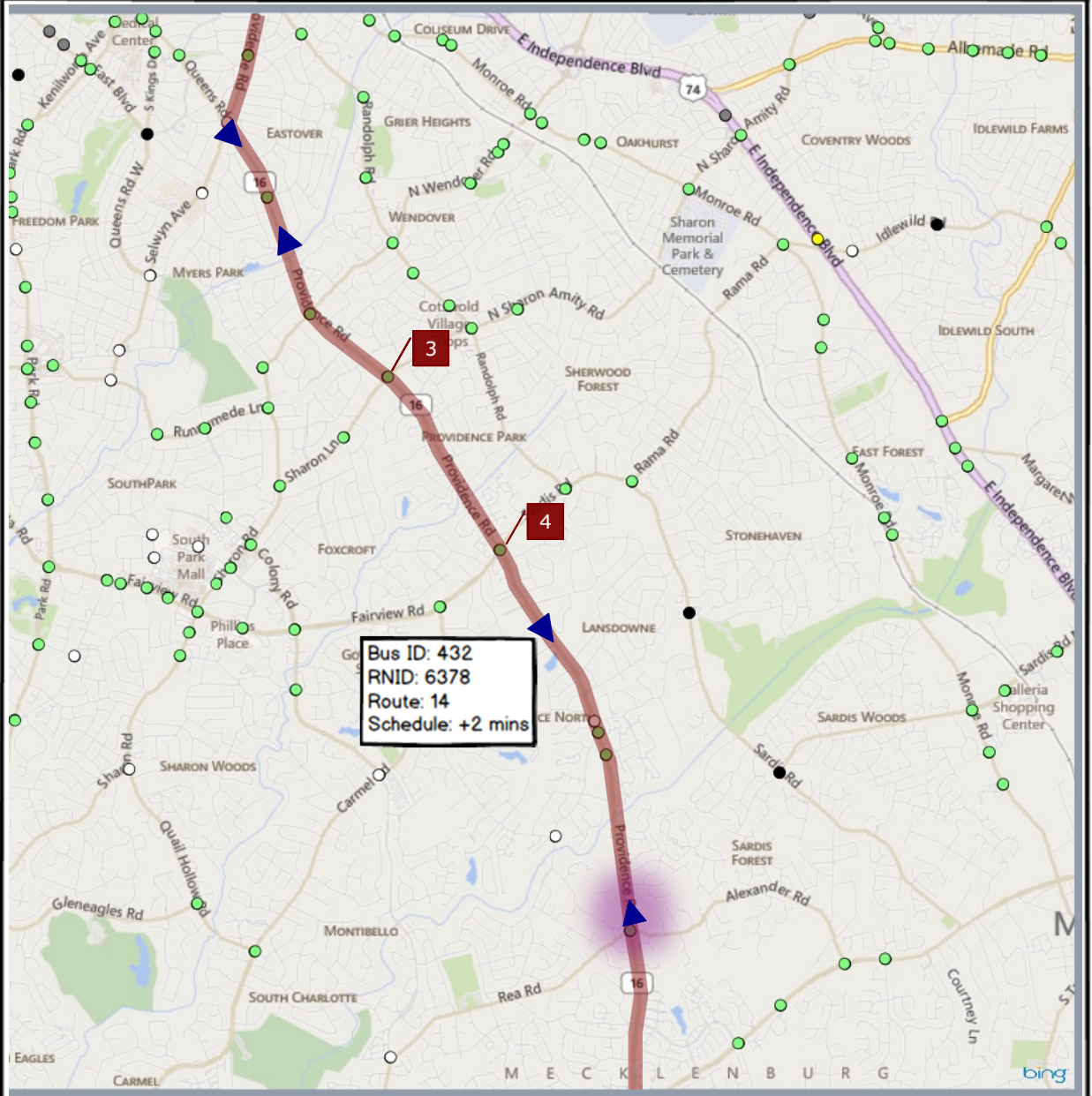
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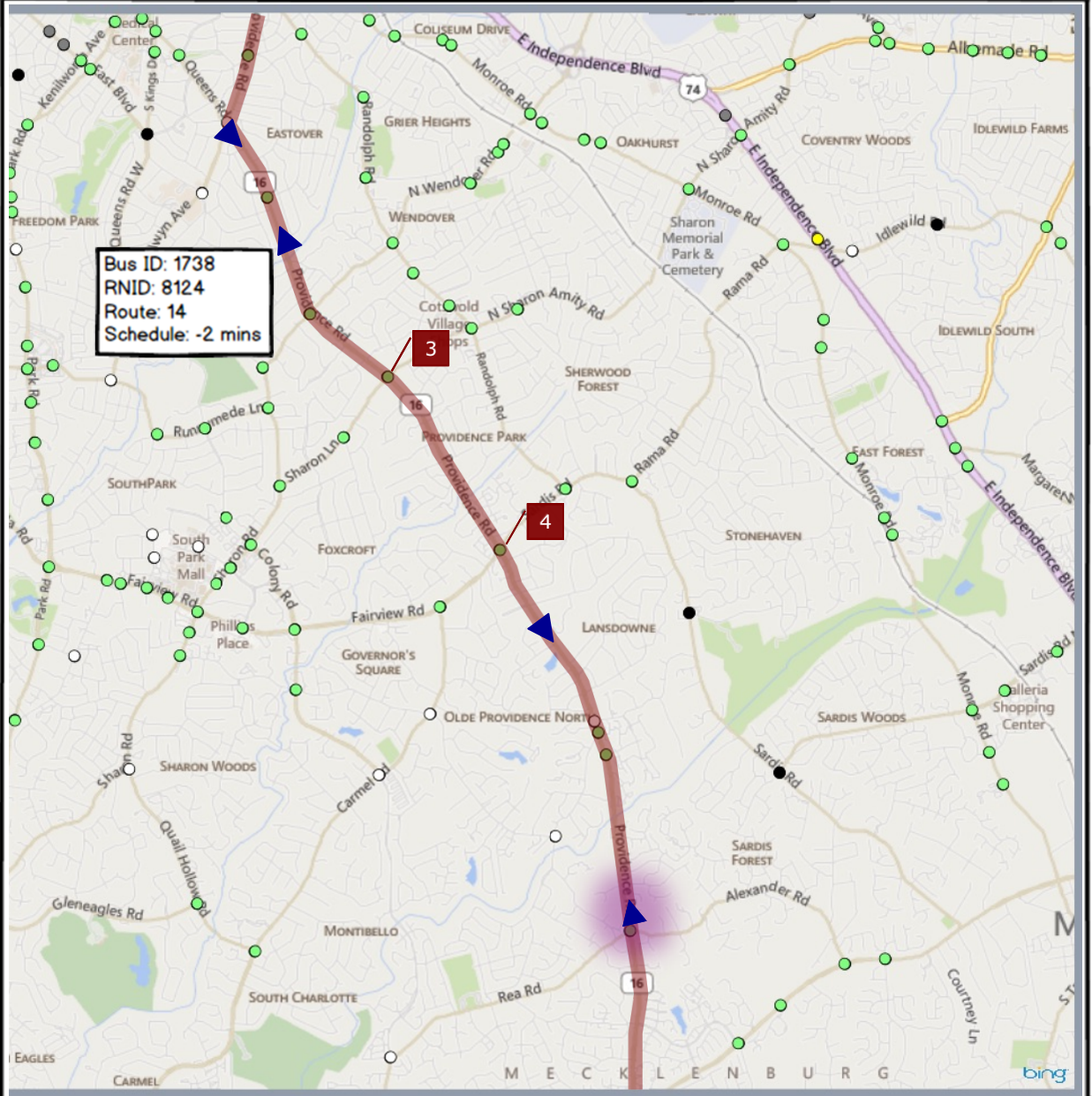
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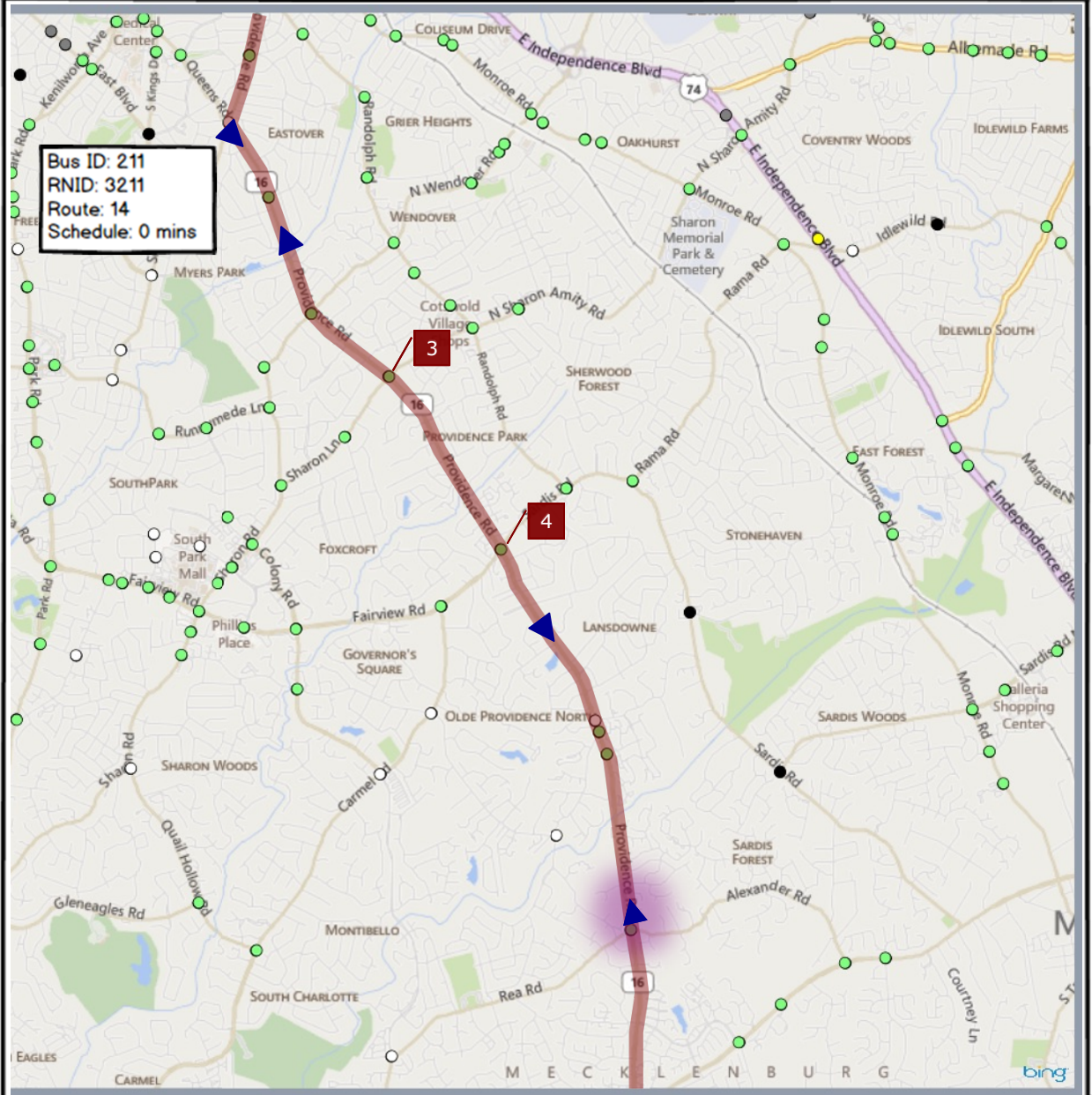
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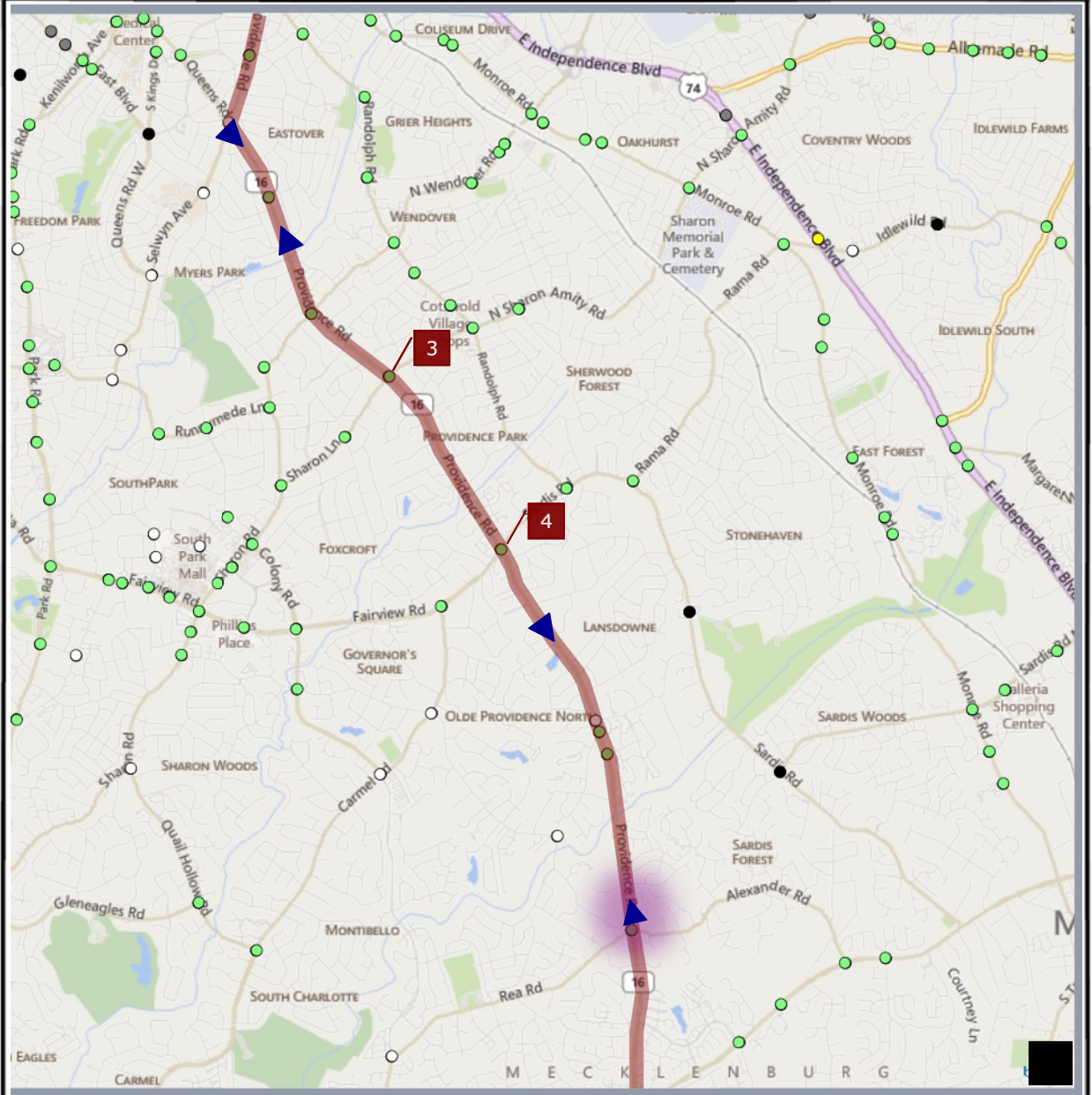
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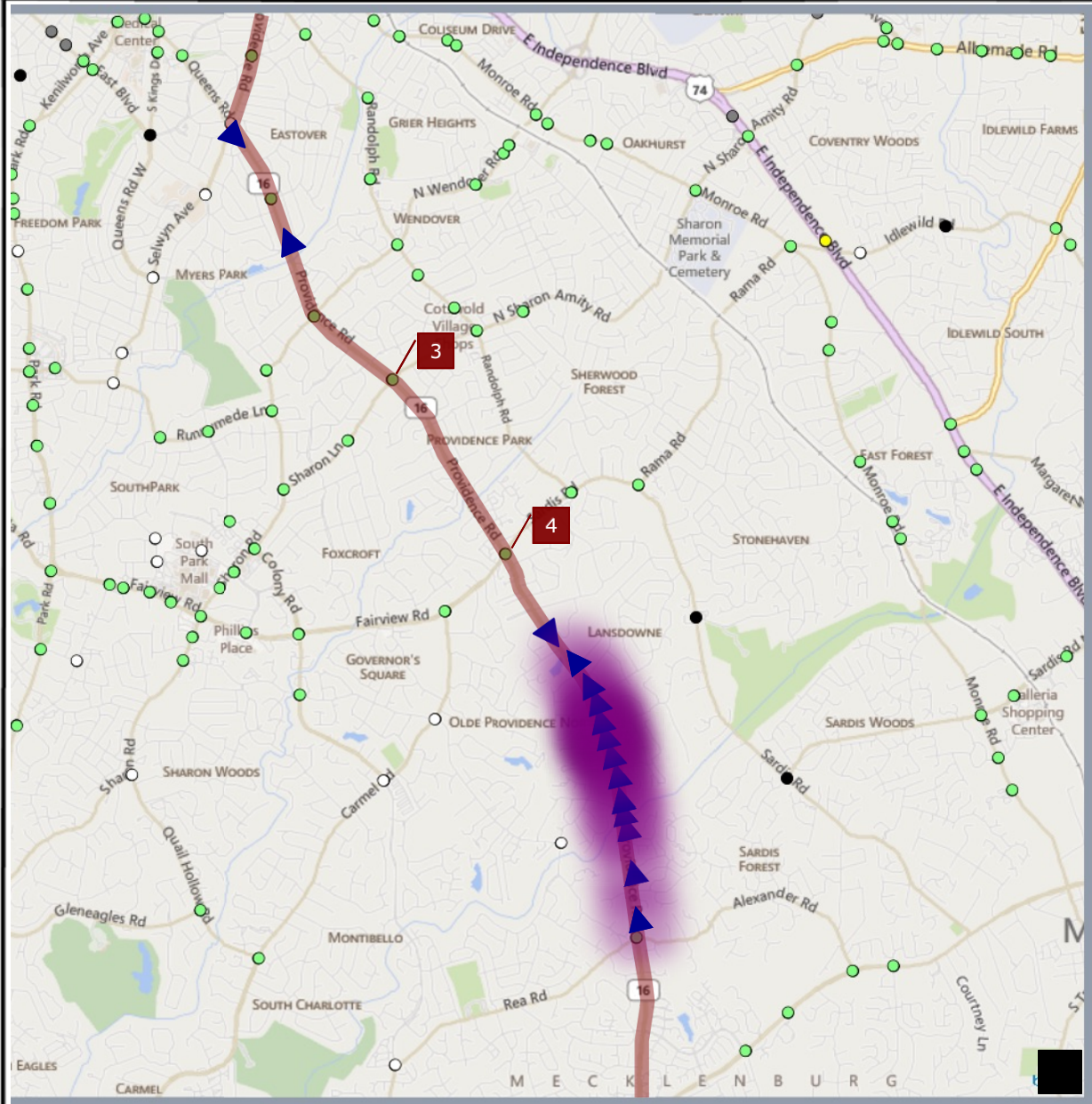
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 - 0543 - Barclay Downs @ Morrison Barclay Downs @ Morrison
 - 0535 - Carmel @ Quail Hollow Carmel @ Quail Hollow
 - 0538 - Colony @ Selwyn Colony @ Selwyn
 - 0527 - Sharon @ Morrison Sharon @ Morrison
 - 0530 - Fairview @ Southpark Mall Fairview @ Southpark Mall
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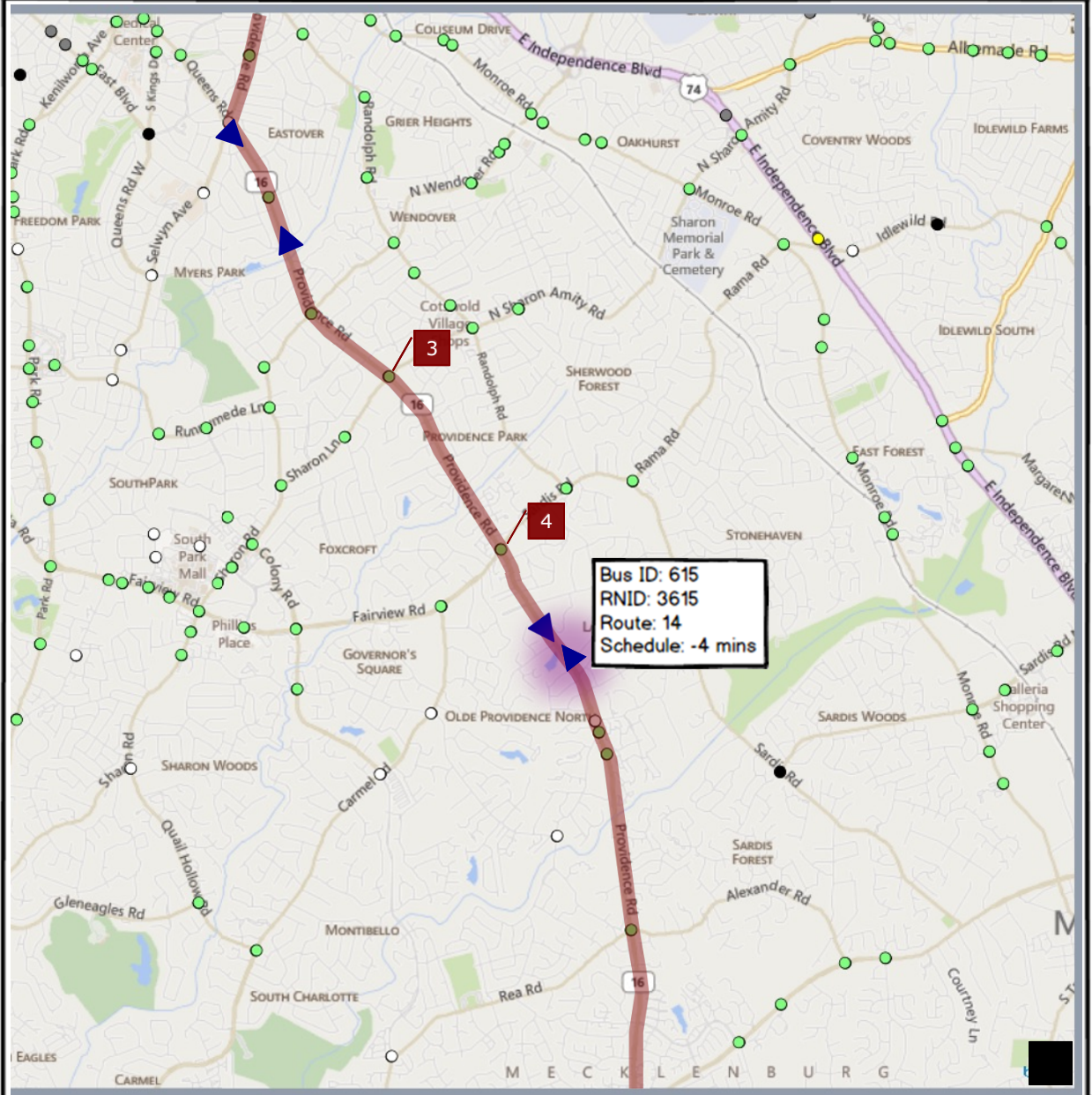
CBD Area



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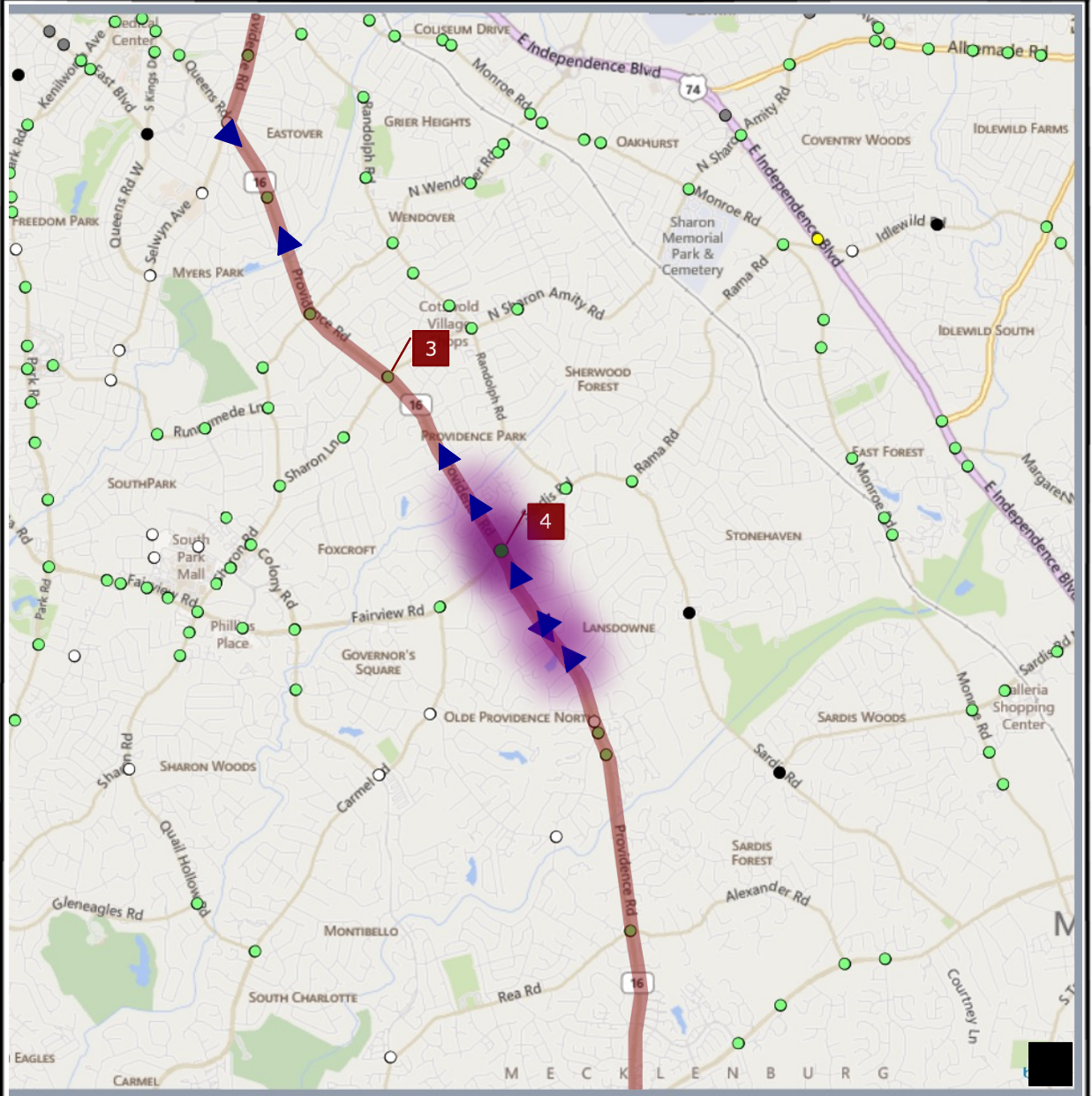


DILO-07

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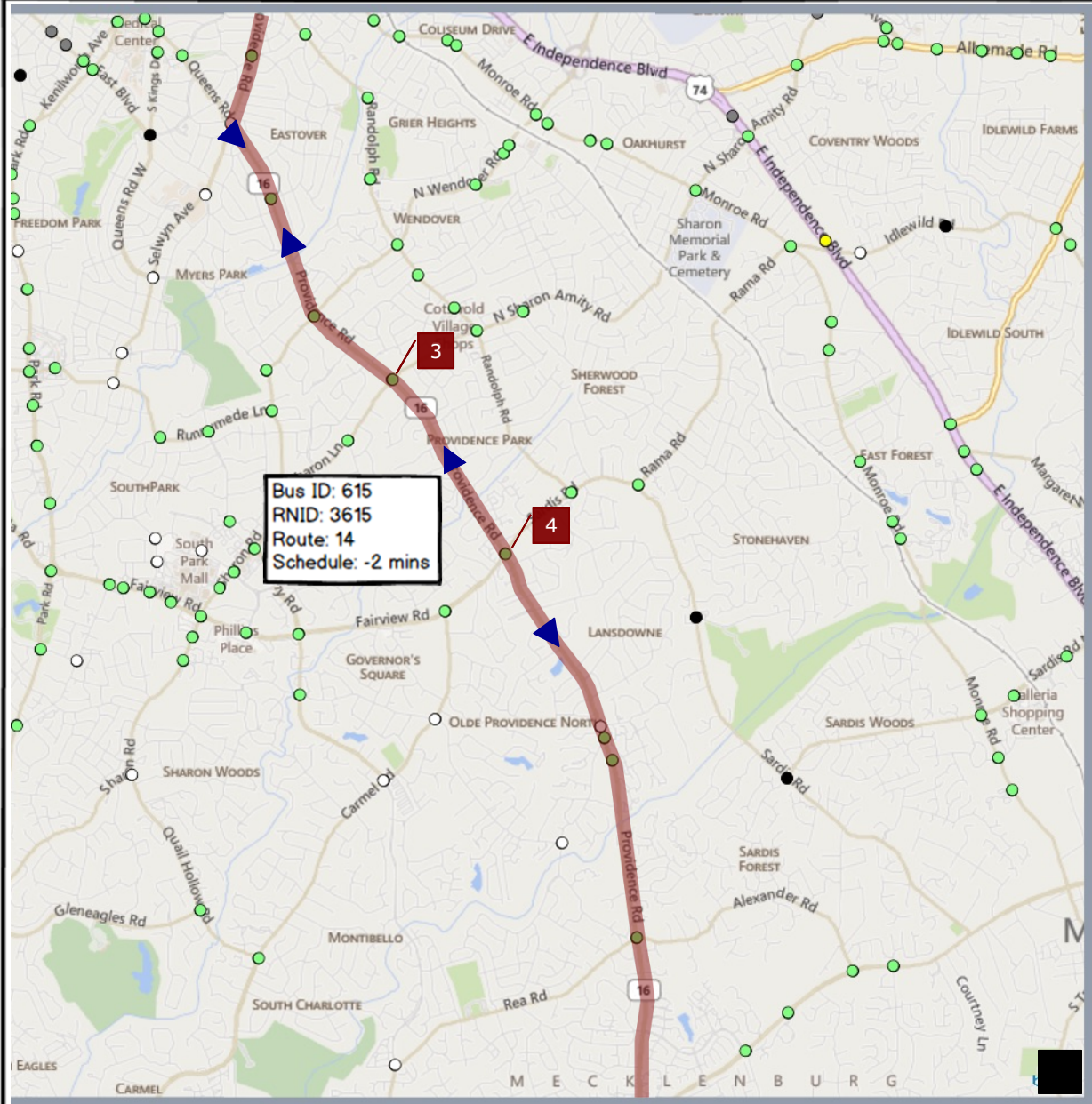


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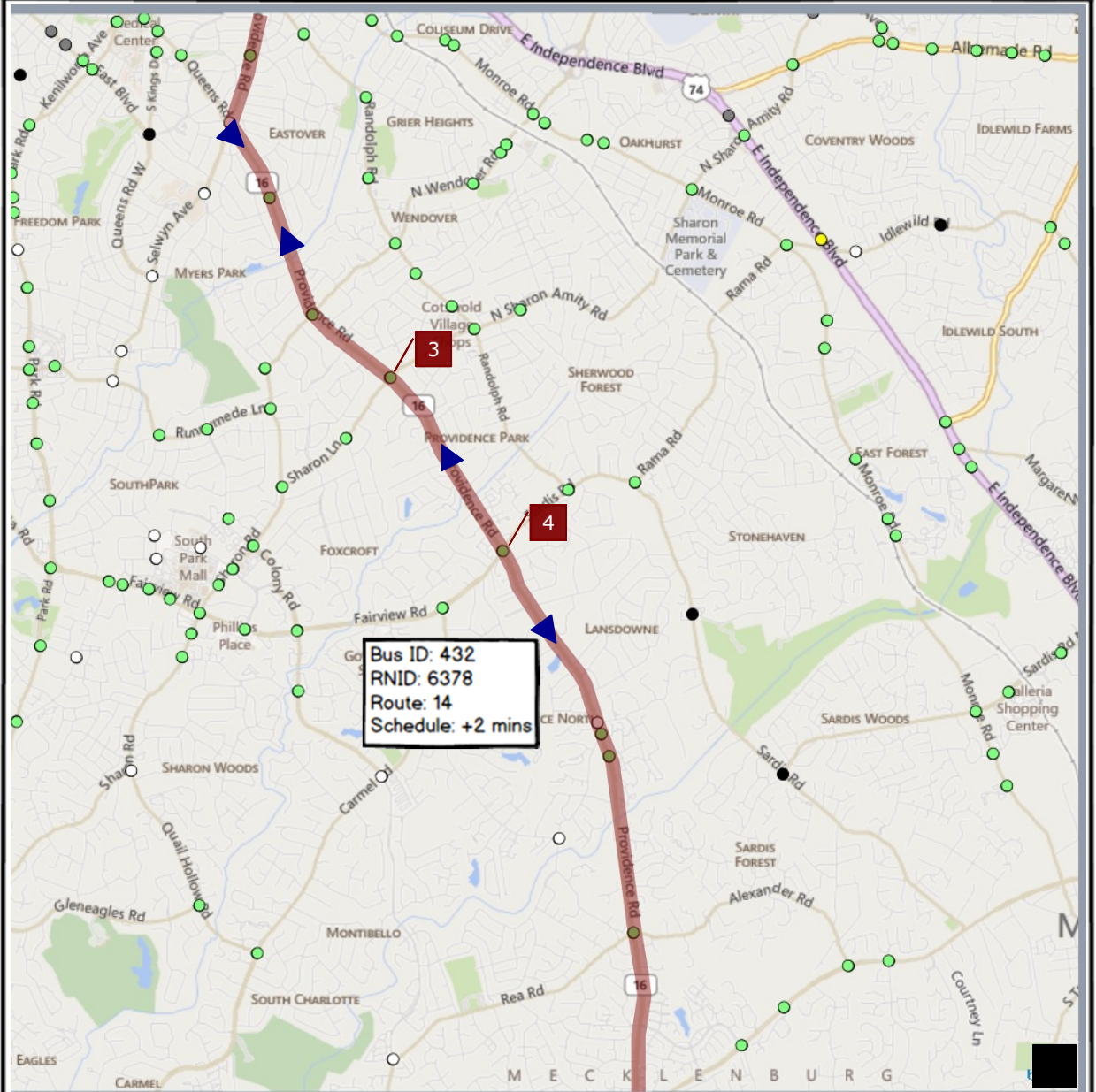
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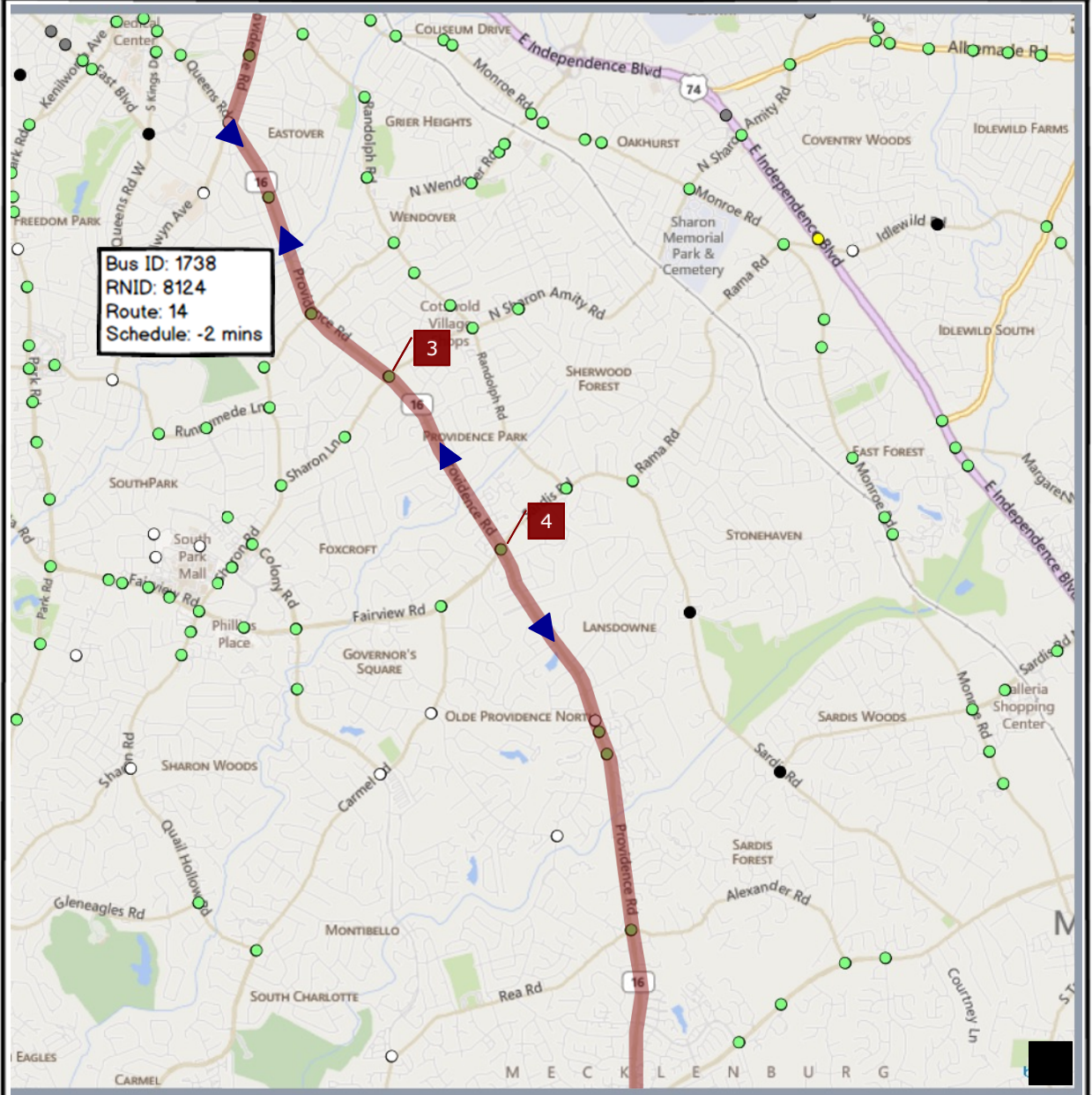
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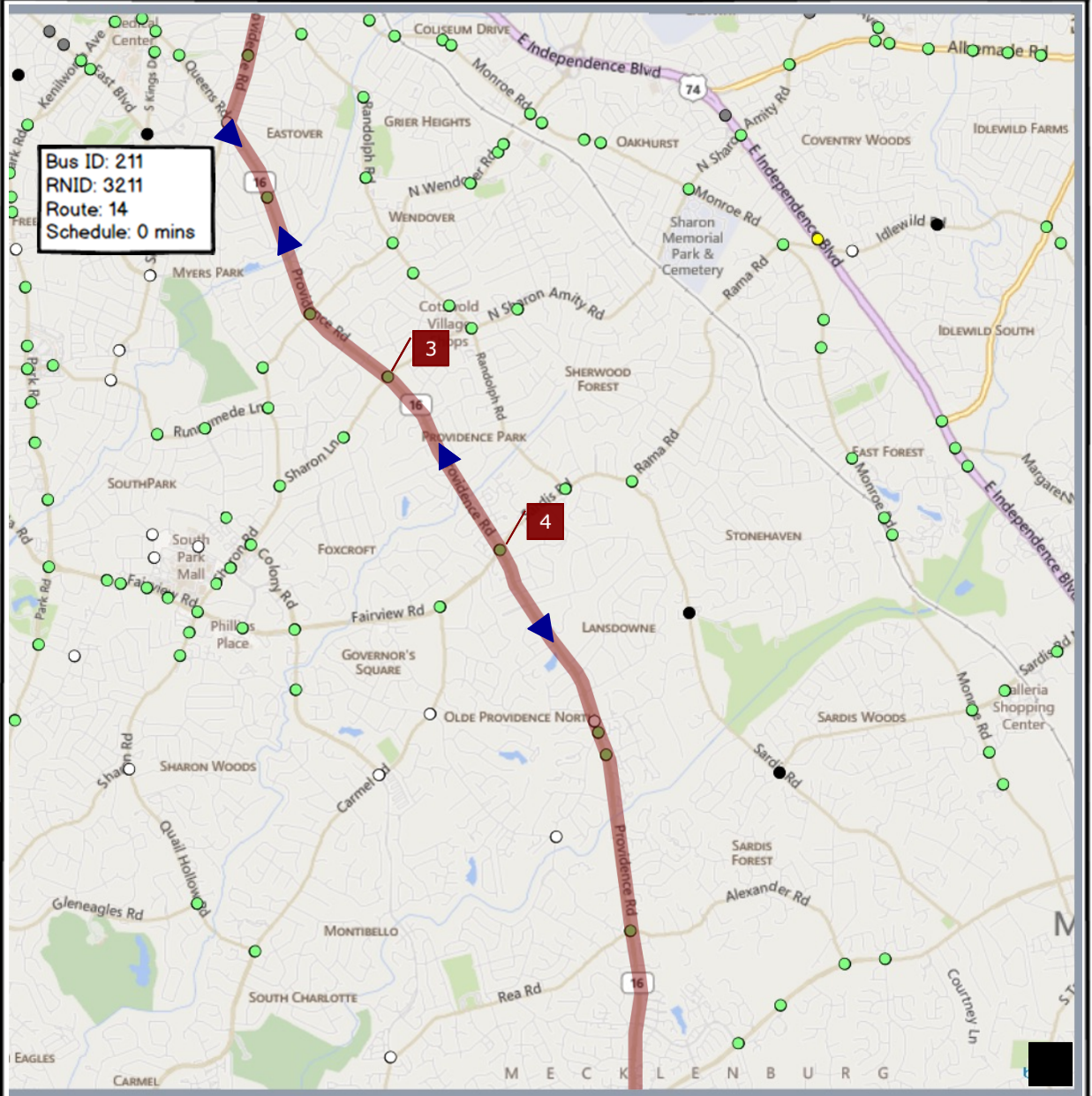
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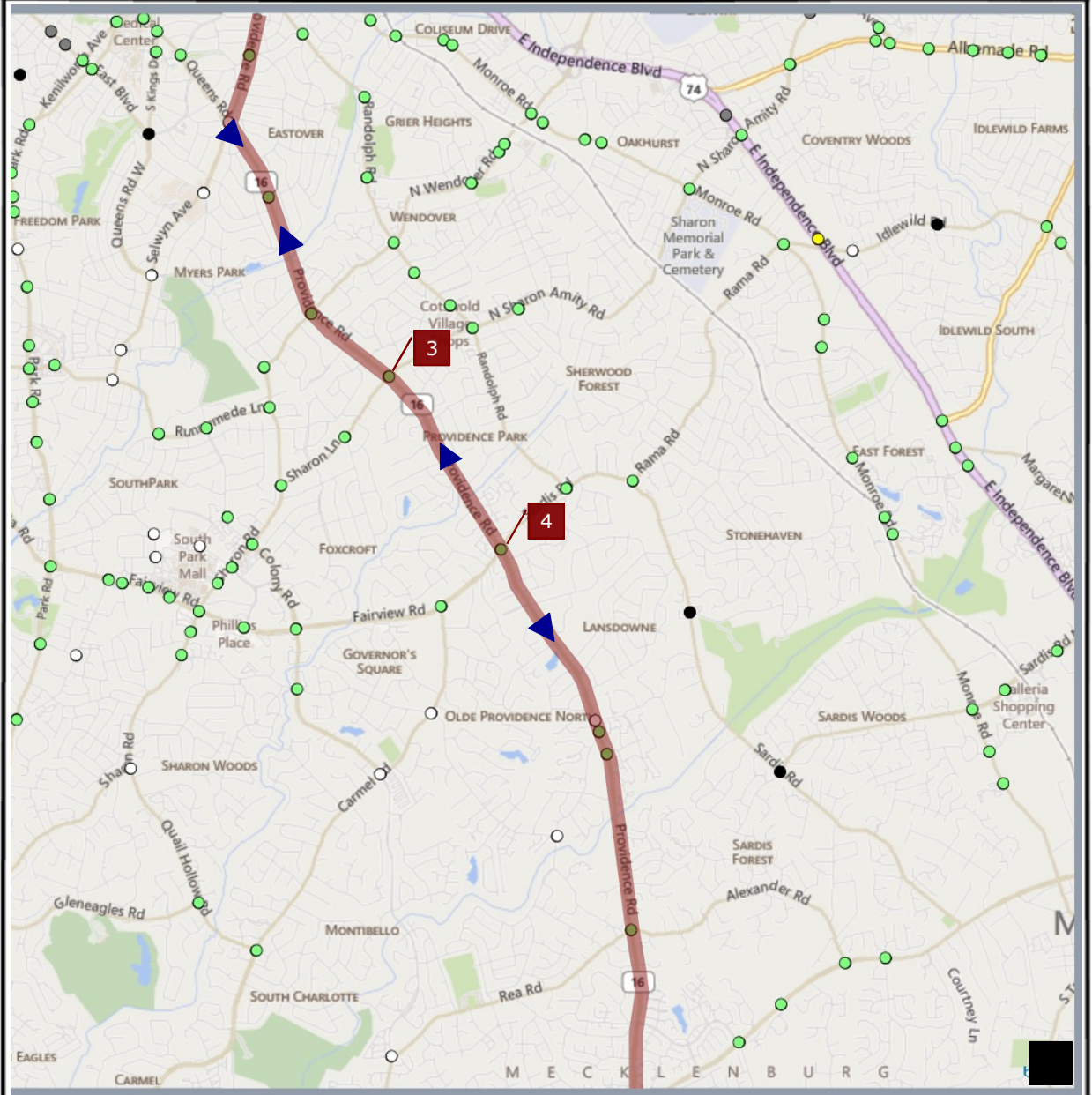
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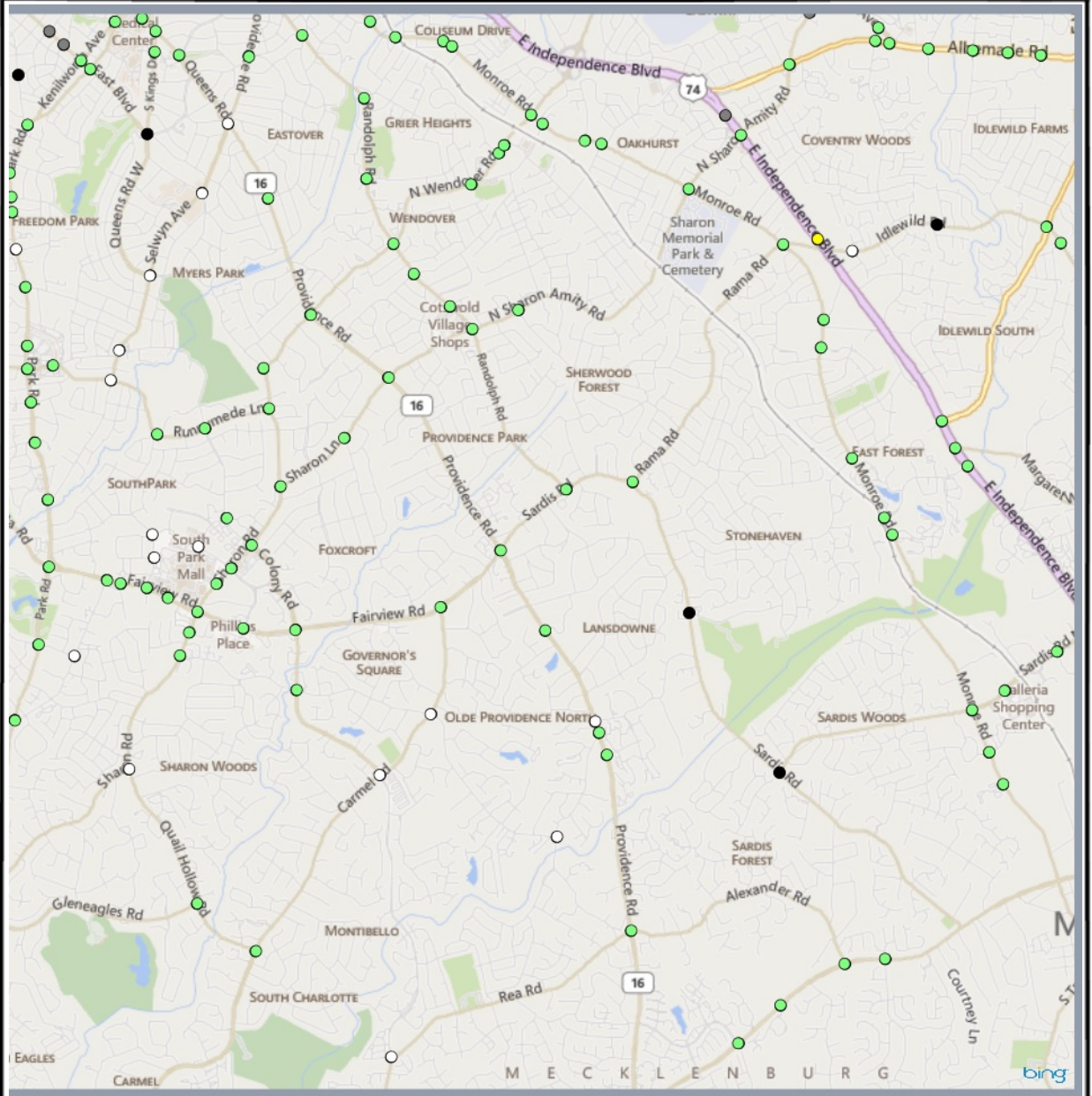
Log Out

Settings...

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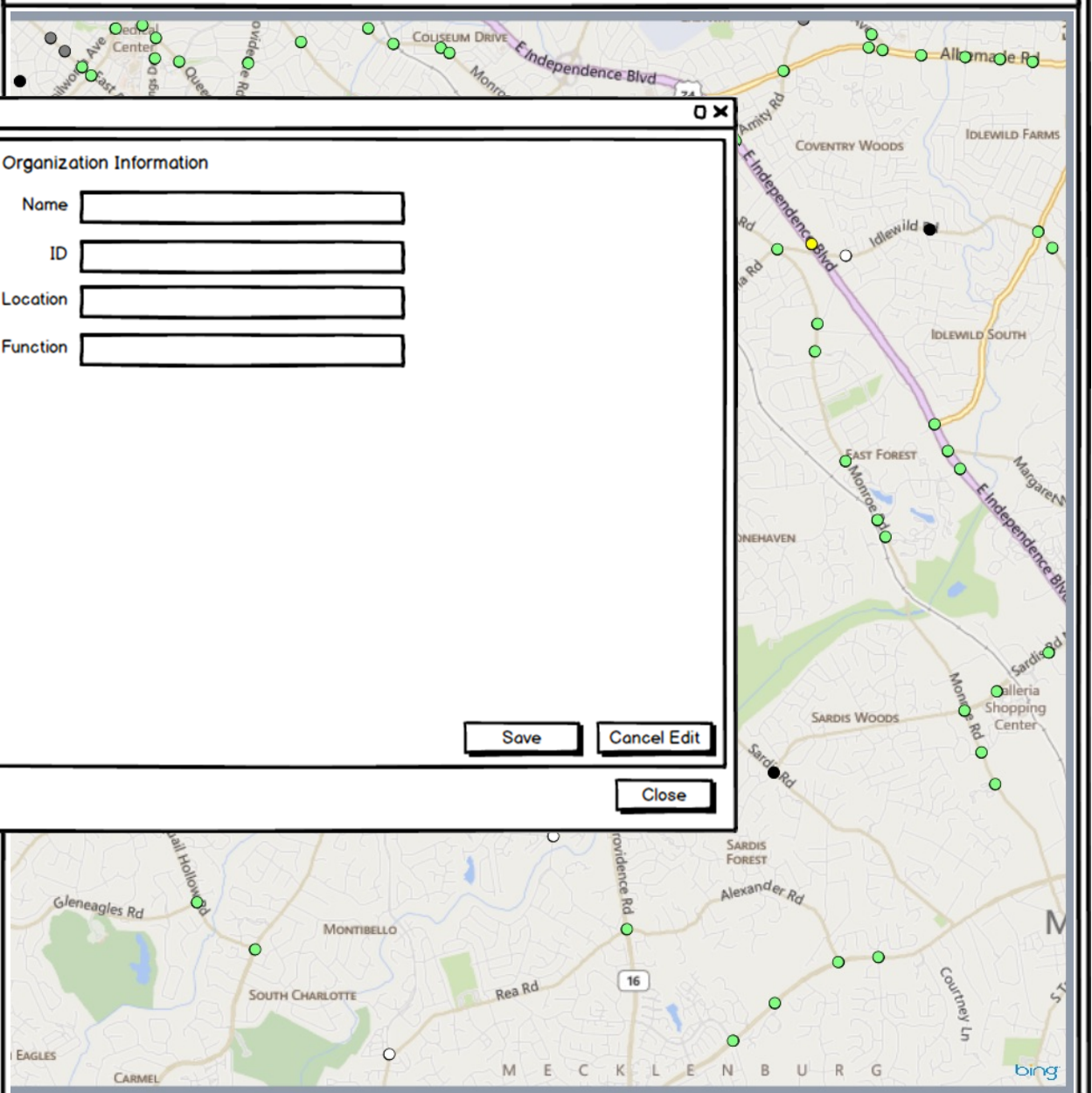




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 - 50 - Idle/Mgt Wal/Circum/Harsbrg
 - CBD DMS Signs
 - 53 - Northmost Tryon Pav-485
 - 51 - Eastmost Independence Harris-Mgt Wal-Vil.Lk
 - 52 - North Sharon Amity Vern-Hck Grv-Sham

CBD Area



Settings

Organization Information

Name

ID

Location

Function

Save Cancel Edit

Close

Organization Information

Licensing

SMTP Servers

ECPI Tile Server

Password Strength

Confirmation Dialogs

Action Properties

Preempts

Detector Settings

BlueTOAD

Support Services

Offline Alert Format

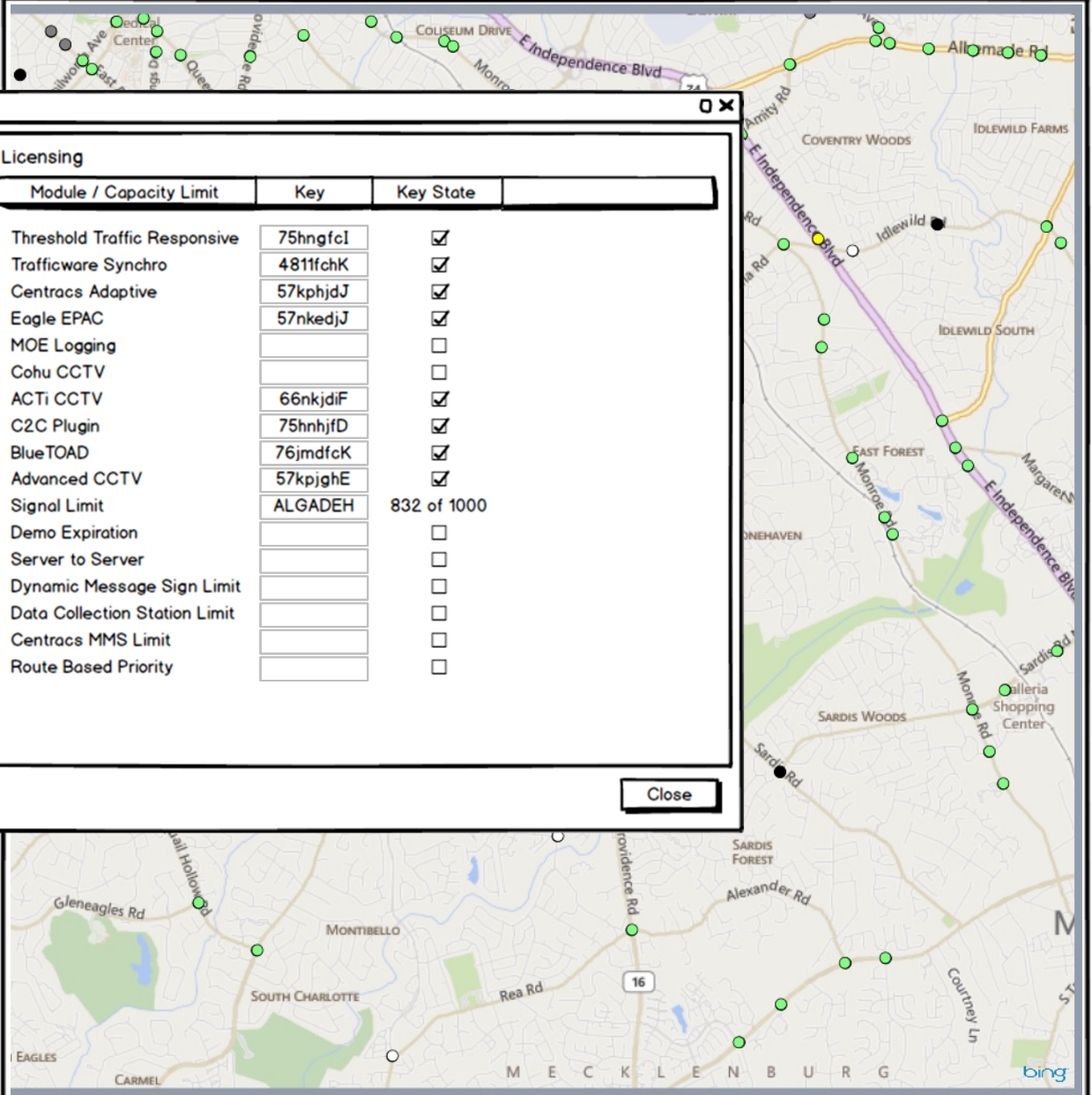
MMS Settings

Default Comm Parameters

Entity Tree

- Search tree...
- 46 - N Tryon Lower (Hatteras)
 - 48 - Southpark
 - 1563 - Colony @ Rea Colony @ Rea
 - 1621 - Sharon @ Live Oaks/Ashley Sq Sharon @ Live Oaks/Ashley Sq
 - 0542 - Runnymede @ Barclay Downs Runnymede @ Barclay Downs
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CBD Area



Settings

- Organization Information
- Licensing
- SMTP Servers
- ECPI Tile Server
- Password Strength
- Confirmation Dialogs
- Action Properties
- Preempts
- Detector Settings
- BlueTOAD
- Support Services
- Offline Alert Format
- MMS Settings
- Default Comm Parameters

Licensing

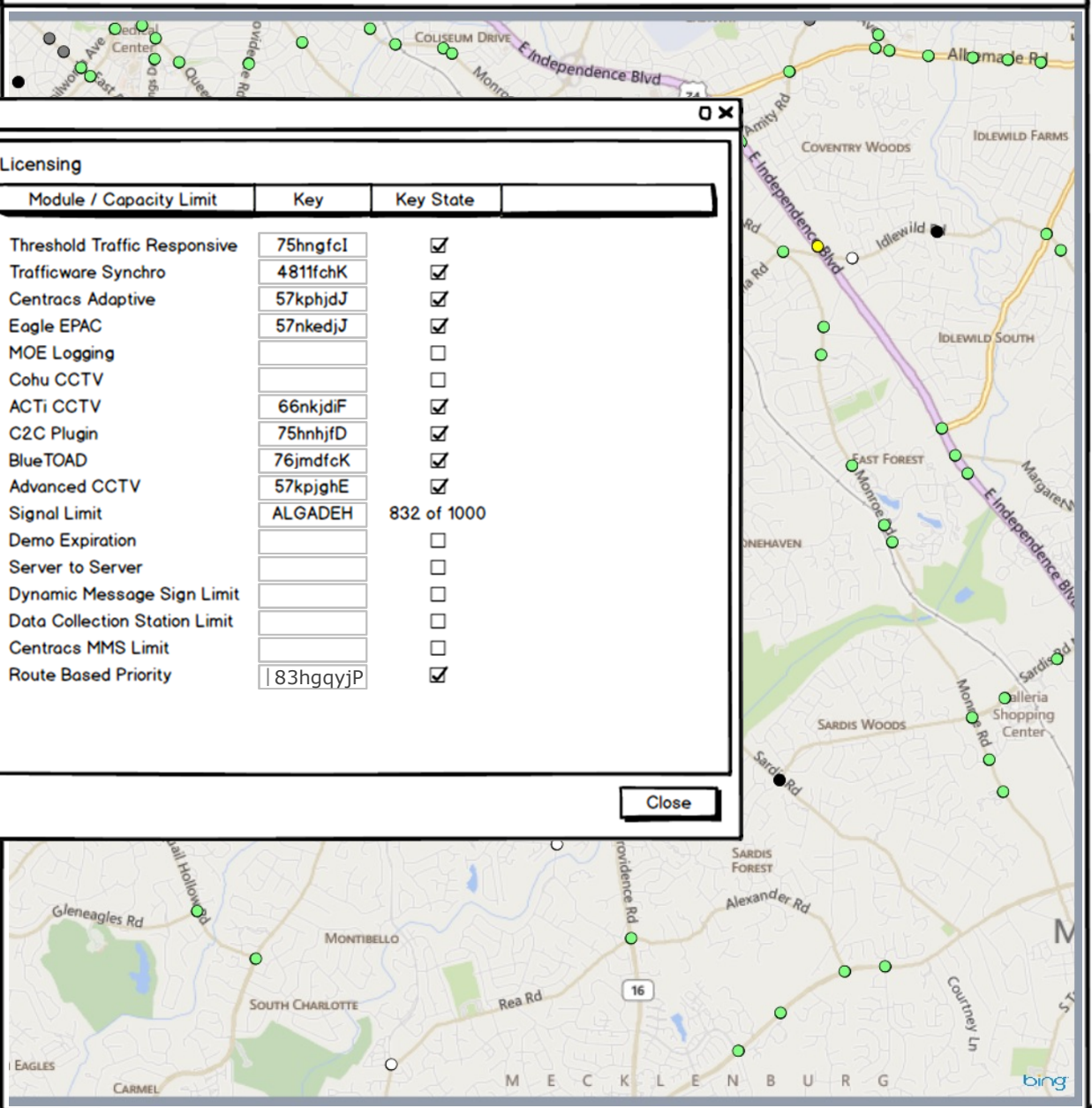
Module / Capacity Limit	Key	Key State
Threshold Traffic Responsive	75hngfcl	<input checked="" type="checkbox"/>
Trafficware Synchro	4811fchK	<input checked="" type="checkbox"/>
Centracs Adaptive	57kphjdJ	<input checked="" type="checkbox"/>
Eagle EPAC	57nkedjJ	<input checked="" type="checkbox"/>
MOE Logging		<input type="checkbox"/>
Cohu CCTV		<input type="checkbox"/>
ACTi CCTV	66nkjdiF	<input checked="" type="checkbox"/>
C2C Plugin	75hnhjfD	<input checked="" type="checkbox"/>
BlueTOAD	76jmdfcK	<input checked="" type="checkbox"/>
Advanced CCTV	57kpgjhE	<input checked="" type="checkbox"/>
Signal Limit	ALGADEH	832 of 1000
Demo Expiration		<input type="checkbox"/>
Server to Server		<input type="checkbox"/>
Dynamic Message Sign Limit		<input type="checkbox"/>
Data Collection Station Limit		<input type="checkbox"/>
Centracs MMS Limit		<input type="checkbox"/>
Route Based Priority		<input type="checkbox"/>

Close

Entity Tree

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CBD Area



Settings

Organization Information

Licensing

Module / Capacity Limit	Key	Key State
Threshold Traffic Responsive	75hngfcl	<input checked="" type="checkbox"/>
Trafficware Synchro	4811fchK	<input checked="" type="checkbox"/>
Centracs Adaptive	57kphjdJ	<input checked="" type="checkbox"/>
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Signal Limit	ALGADEH	832 of 1000
Demo Expiration		<input type="checkbox"/>
Server to Server		<input type="checkbox"/>
Dynamic Message Sign Limit		<input type="checkbox"/>
Data Collection Station Limit		<input type="checkbox"/>
Centracs MMS Limit		<input type="checkbox"/>
Route Based Priority	183hgqyJP	<input checked="" type="checkbox"/>

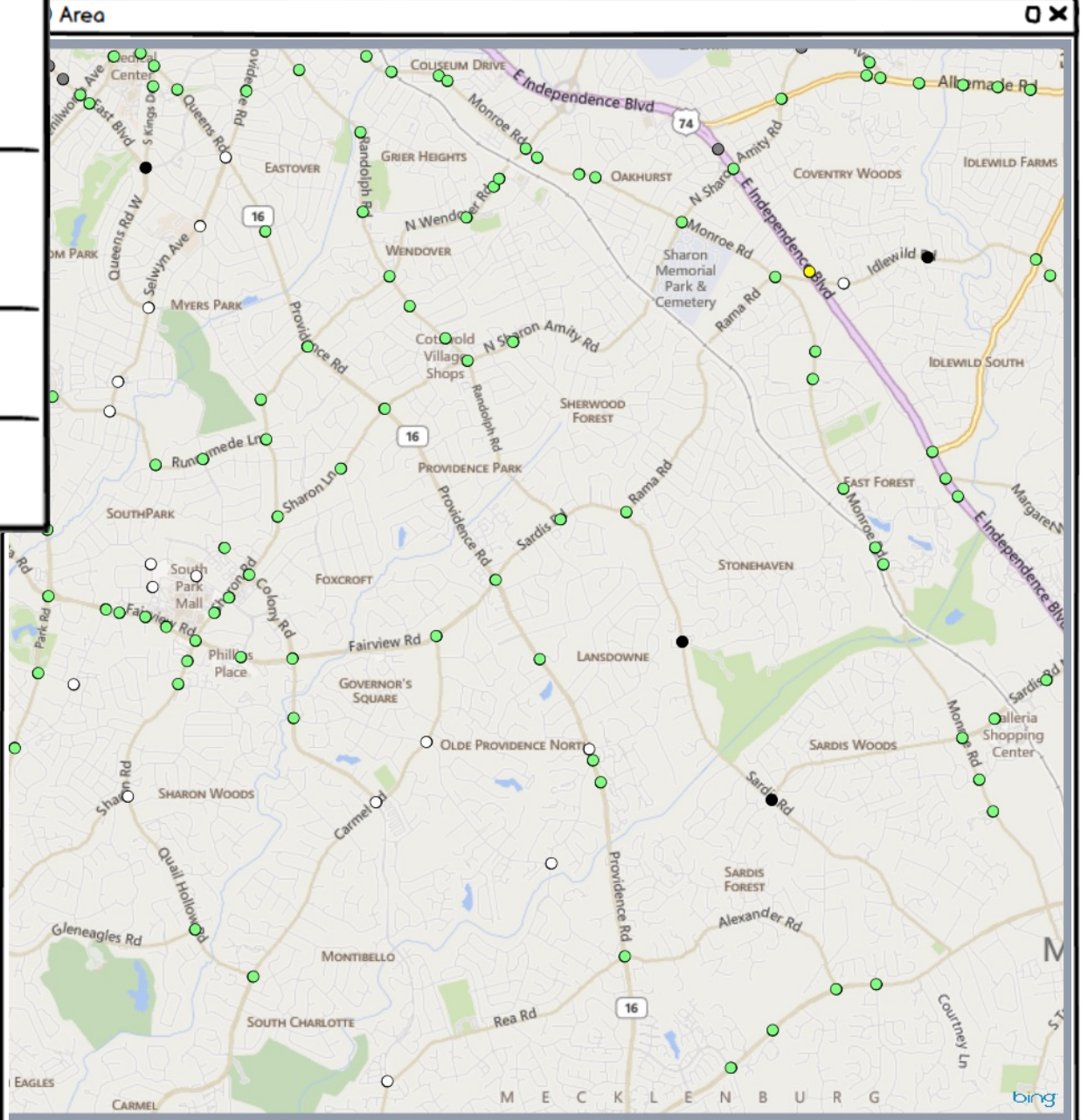
Close



Entity Tree

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- Comm Statistics...
- Comm Test...
- Device Status...
- Split Monitor...
- Time Space Analysis...
- Device Collection Monitor...
- Real-Time detector Status...
- Real-Time Link Status...
- Alerts...
- Current Users...





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Manual Commands...

Scheduler...

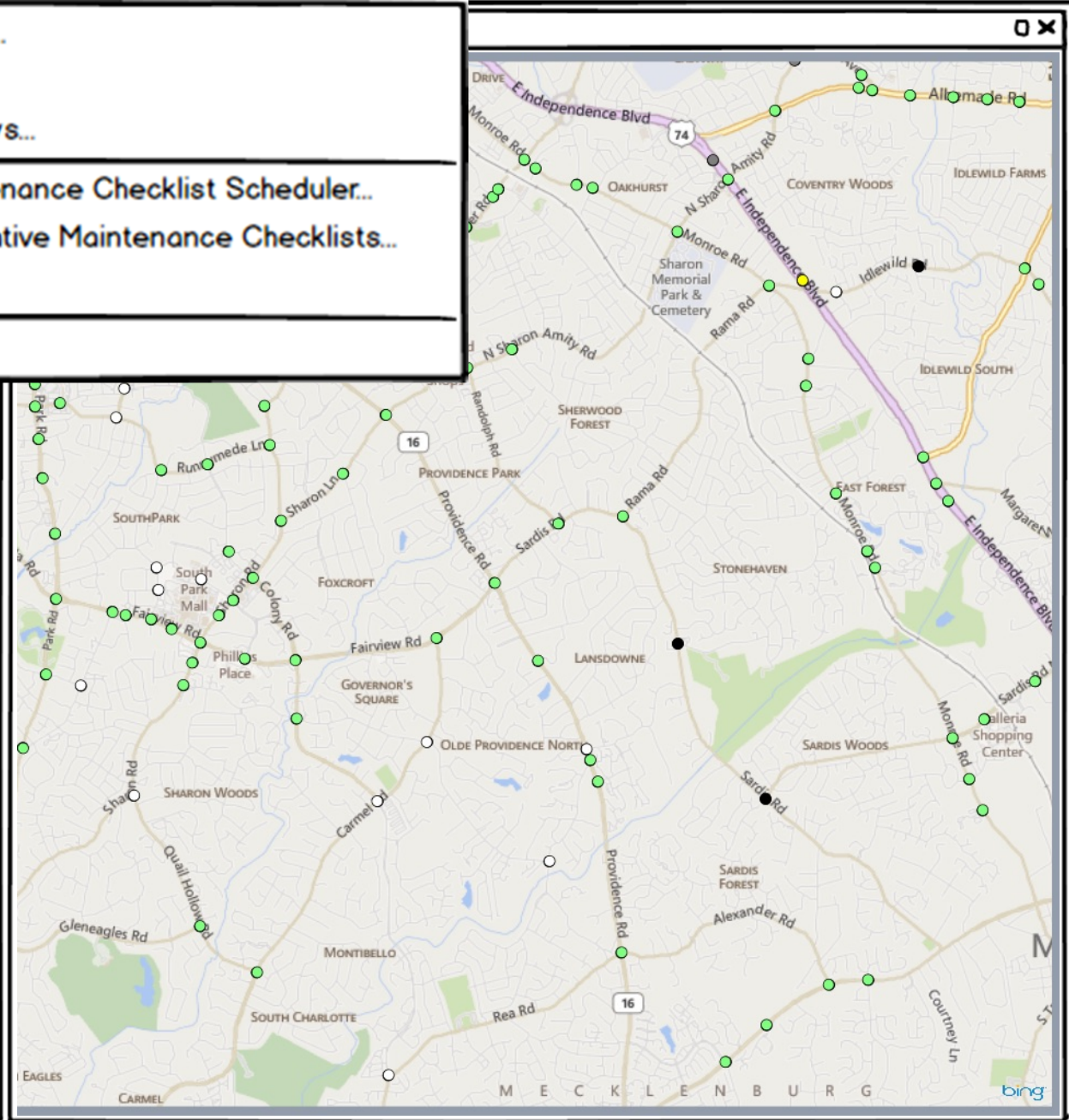
Holiday/Special Days...

Preventative Maintenance Checklist Scheduler...

Scheduled Preventative Maintenance Checklists...

Tickets...

On-Call Scheduler...



Entity Tree

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- Master Inventory...
- Type and Field Definitions...
- Shared Field Definitions...
- Manufacturers...
- Preventative Maintenance Checklist Items...
- Preventative Maintenance Checklists...

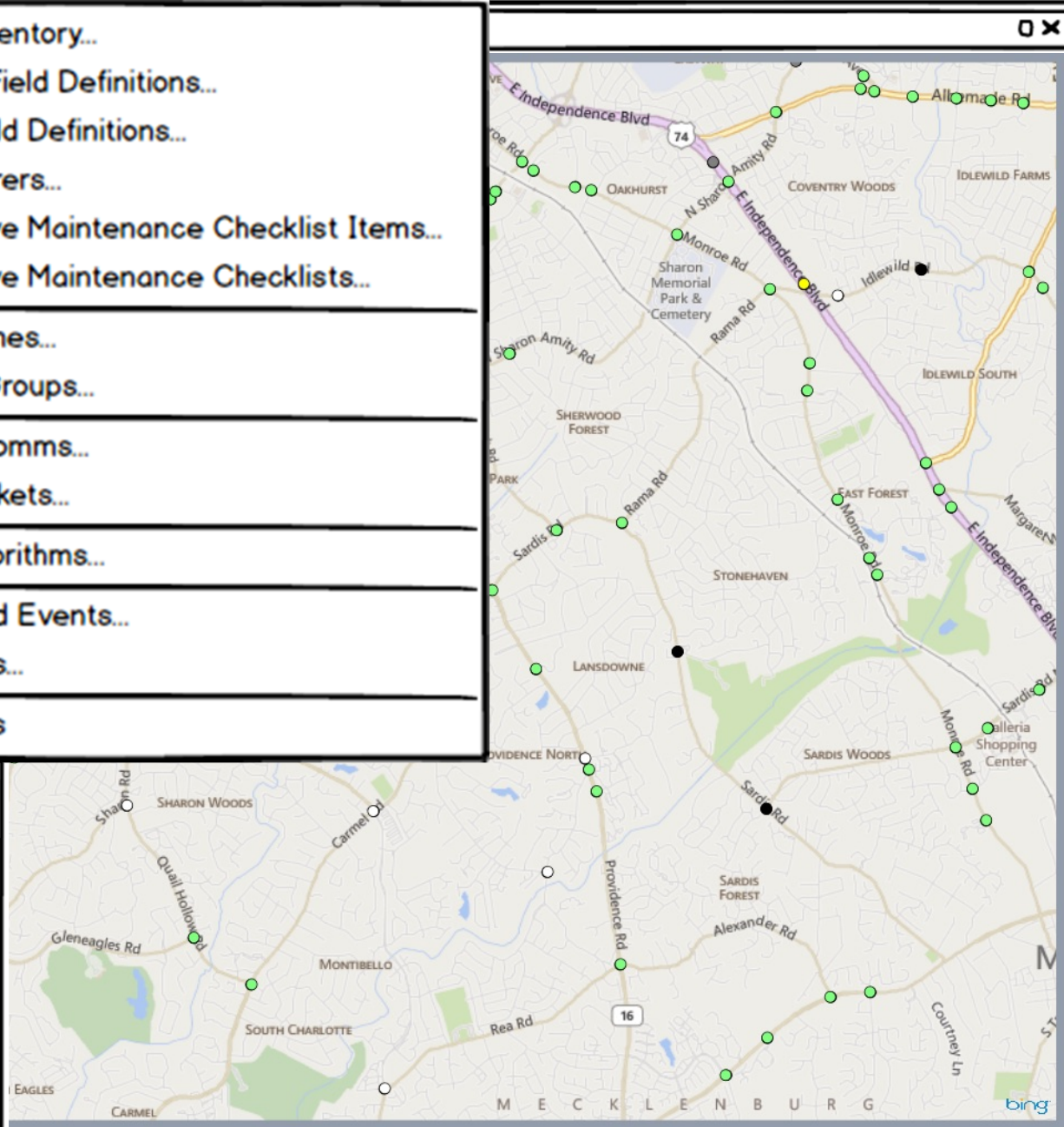
- Street Names...
- Detector Groups...

- Servers/Comms...
- Polling Packets...

- Traffic Algorithms...

- Alerts and Events...
- Action Sets...

- Map Layers





Entity Tree

- Search tree...
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Users...

User Groups...

Change Password...

User Roles

Recipients...

Global Settings...

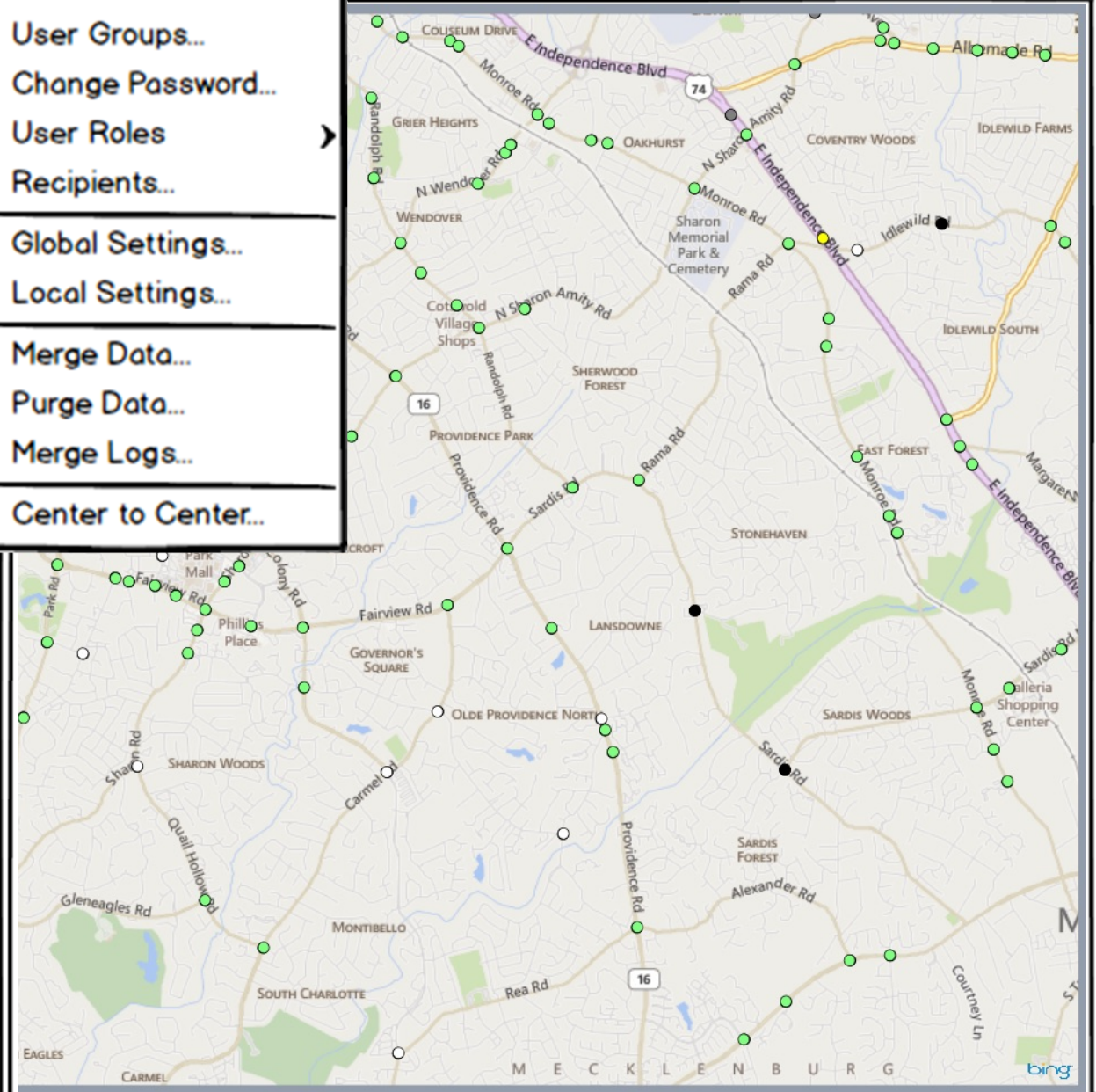
Local Settings...

Merge Data...

Purge Data...

Merge Logs...

Center to Center...

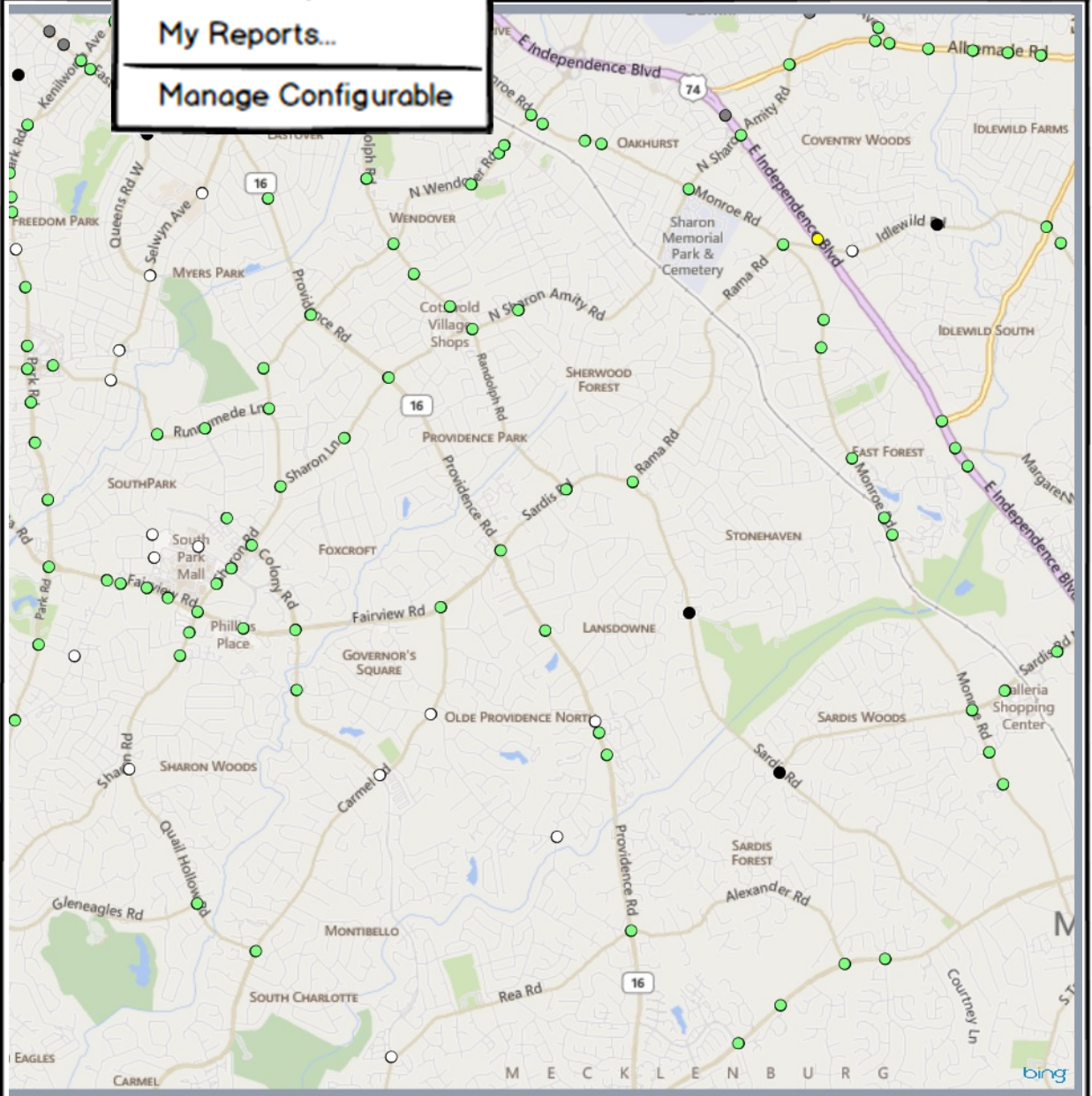




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CBD Area

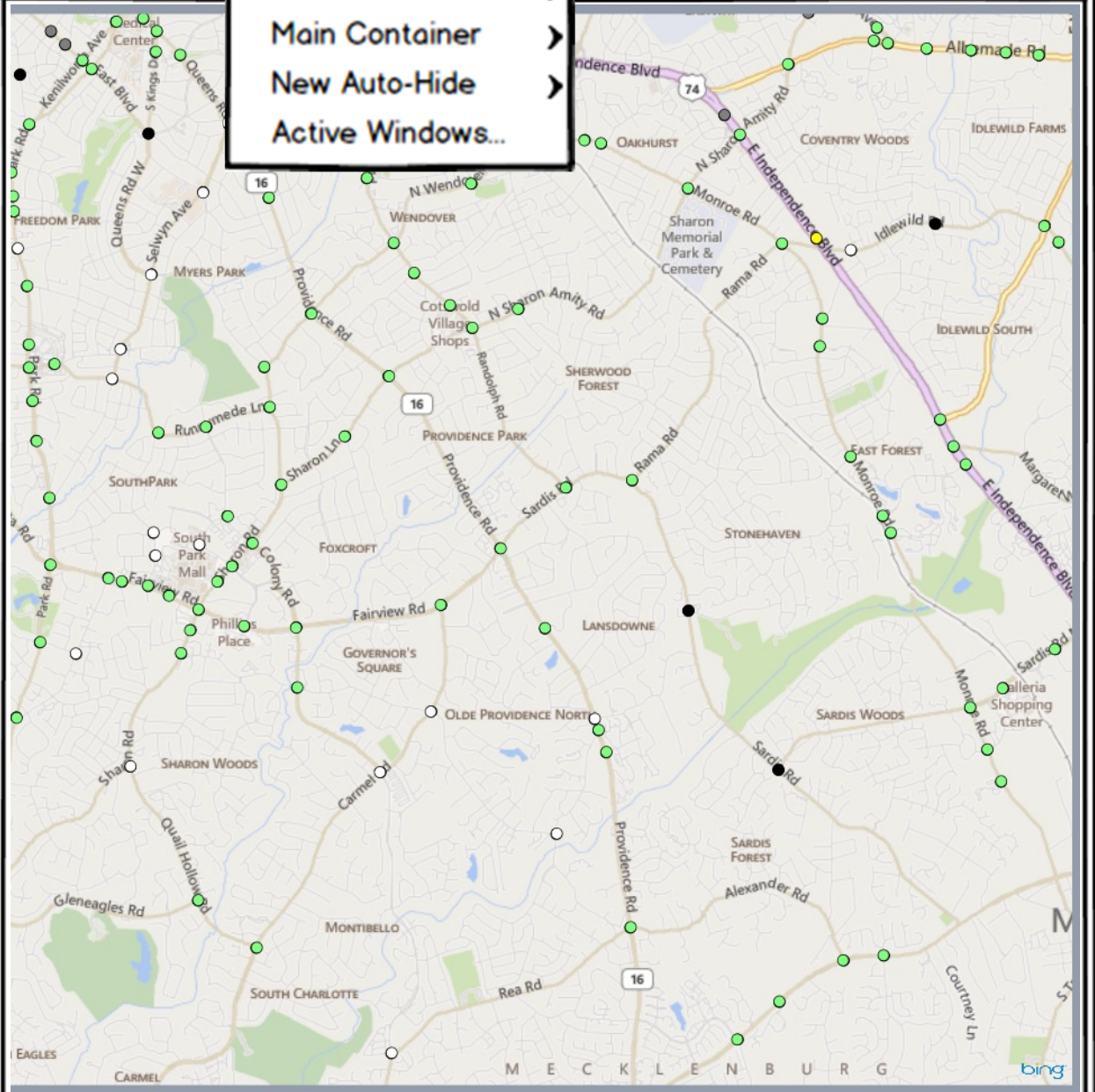




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CBD Area



New Container >

Main Container >

New Auto-Hide >

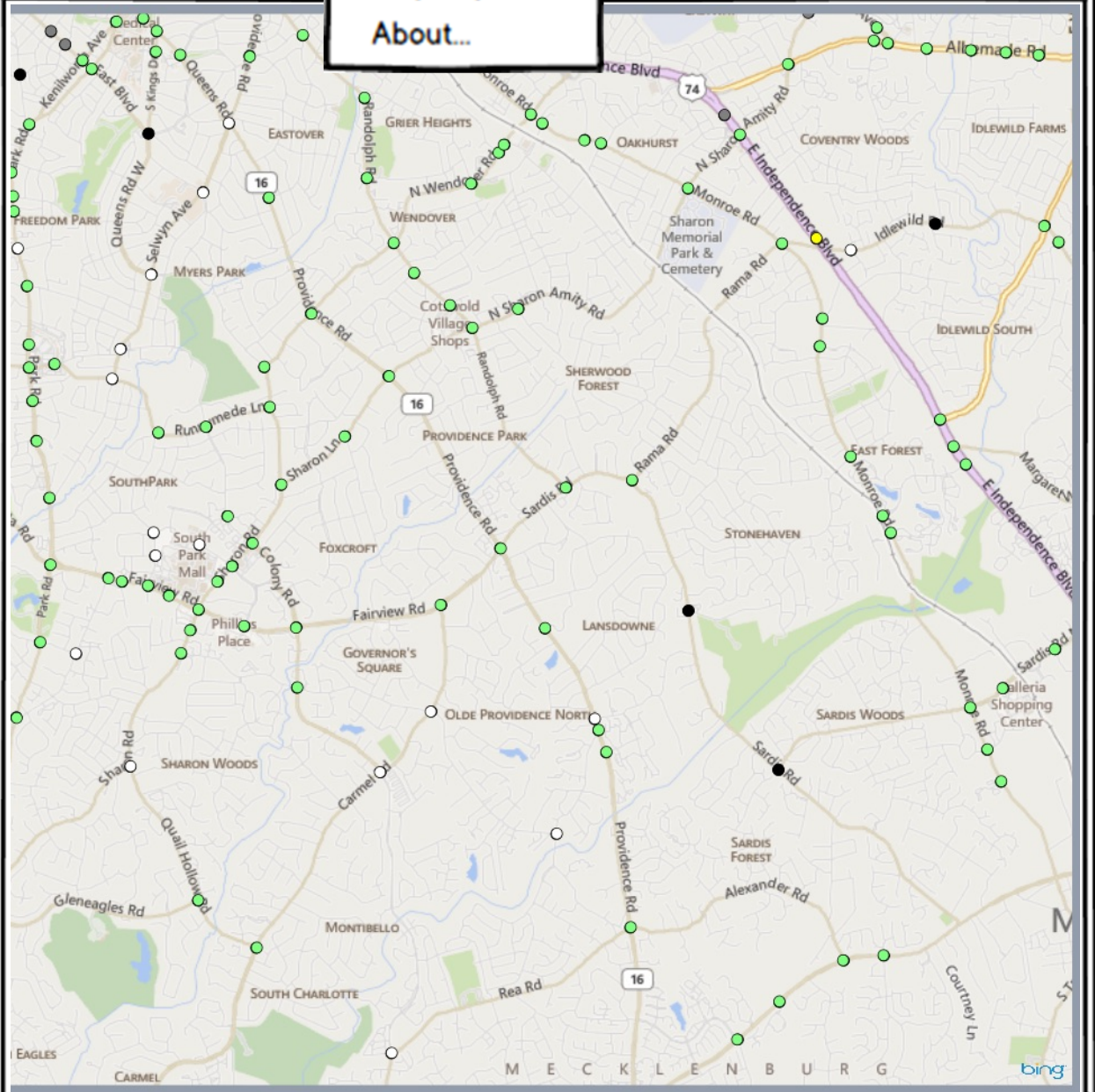
Active Windows...



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 - 1544 - Fairview @ Cameron Valley Fairview @ Cameron Valley
 - 0543 - Barclay Downs @ Morrison Barclay Downs @ Morrison
 - 0535 - Carmel @ Quail Hollow Carmel @ Quail Hollow
 - 0538 - Colony @ Selwyn Colony @ Selwyn
 - 0527 - Sharon @ Morrison Sharon @ Morrison
 - 0530 - Fairview @ Southpark Mall Fairview @ Southpark Mall
 - 0540 - Selwyn @ Runnymede/Woodlawn Selwyn @ Runnymede/Woodlawn
 - 1502 - Colony @ Sharon View Colony @ Sharon View
 - 0522 - Sharon @ Runnymede Sharon @ Runnymede
 - 0549 - Old Providence @ Sharon View Old Providence @ Sharon View
 - 0534 - Quail Hollow @ Gleneagles Quail Hollow @ Gleneagles
 - 0528 - Sharon @ Southpark Mall Sharon @ Southpark Mall
 - 0521 - Sharon @ Wendover Sharon @ Wendover
 - 0525 - Sharon Road @ Sharon Lane Sharon Road @ Sharon Lane
 - 1562 - Carmel @ Colony Carmel @ Colony
 - 1503 - Colony @ Fairview Colony @ Fairview
 - 0544 - Fairview @ Barclay Downs Fairview @ Barclay Downs
 - 0497 - Fairview @ Piedmont Row Fairview @ Piedmont Row
 - 0523 - Colony @ Runnymede Colony @ Runnymede
 - 0533 - Sharon @ Quail Hollow Sharon @ Quail Hollow
 - 1529 - Barclay Downs @ Carnegie Barclay Downs @ Carnegie
 - 0545 - Sharon Lane @ Arbor Sharon Lane @ Arbor
 - 47 - Independence/Monroe
 - 99 - Isolated Controllers
 - 57 BLE - N Tryon
 - 55 - Eastside Harris Bv
 - 49 - Prosperity Church / I-485
 - Special Event Groups
 - CCTV
 - Test Controllers For testing use only
 - 54 - Plaza/Milton
 - 50 - Idle/Mgt Wal/Circum/Harsbrg
 - CBD DMS Signs
 - 53 - Northmost Tryon Pav-485
 - 51 - Eastmost Independence Harris-Mgt Wal-Villk
 - 52 - North Sharon Amity Vern-Hck Grv-Sham

CBD Area



Help Topics About...

- Behind
- ...way behind
- Development has been complete and working through bugs
- After fits, starts and stops, we're just now completing a live field test on 13 intersections along Beatties Ford Rd
- If all continues to go well, we have Independence Boulevard set to go.
- Planning for total system rollout, with schedule to complete in late June 2018.



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Special Thanks to...

CDOT Staff

Terry Gortney

Shawn Dowdell



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Questions



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