23070 Shaw Road, Sterling, Va. –3-25-16

Maps Report

Contents

This report provides fiber maps and information pertaining to 23070 Shaw Road, Sterling, Va. The contents provide an overview of telecommunications infrastructure information for the area's carrier hotels, data centers and potential for network diversity.

Background
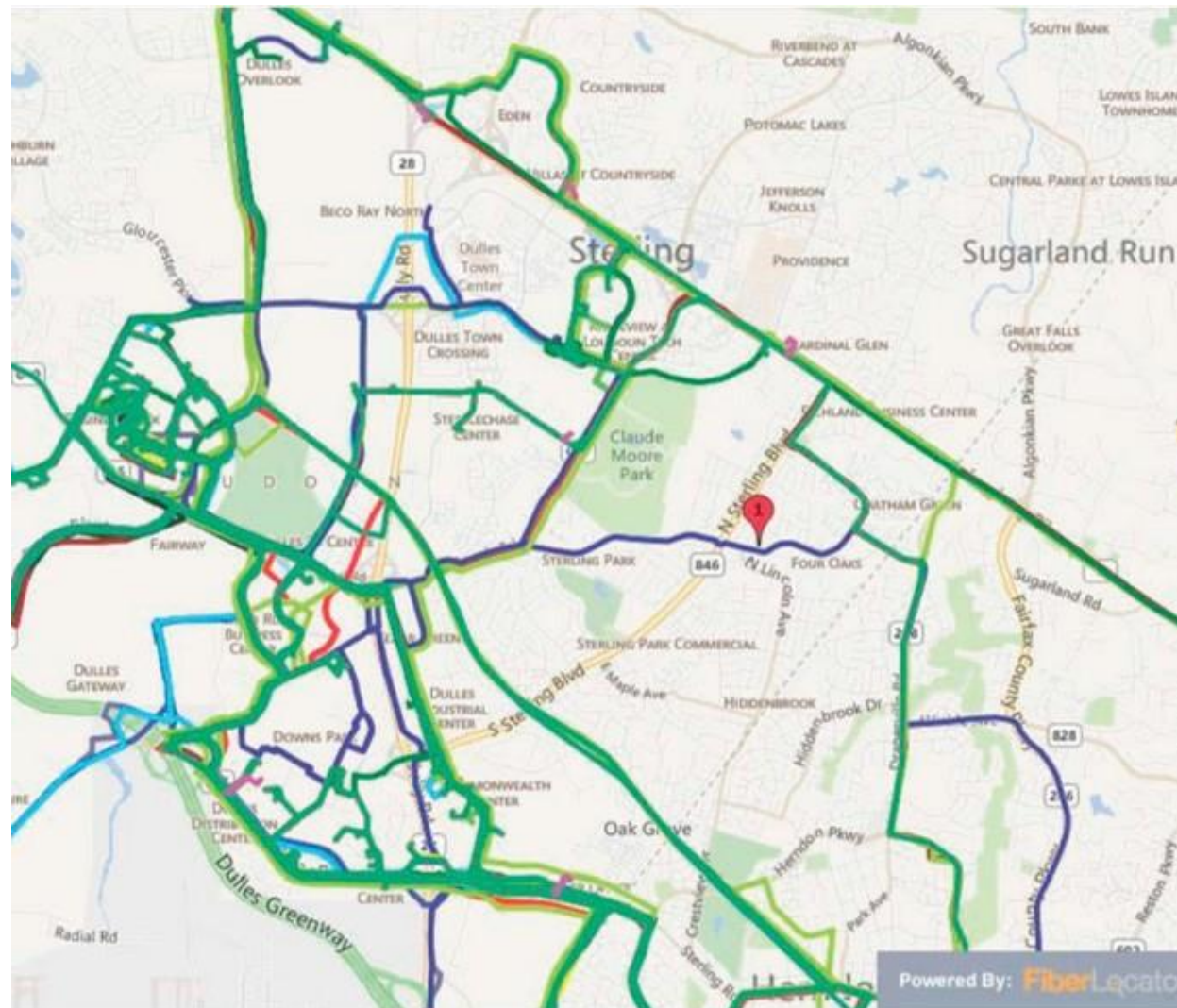
Metro Network Overview

Located in one of the most densely populated areas in the country for fiber infrastructure, the 23070 Shaw Road location in Sterling, Va., benefits from its proximity to data center hubs in Ashburn, Va., and the metro area's highly connected carrier hotels.

There is dense metro fiber infrastructure at the target address and the surrounding area. High-capacity optical services are readily available.

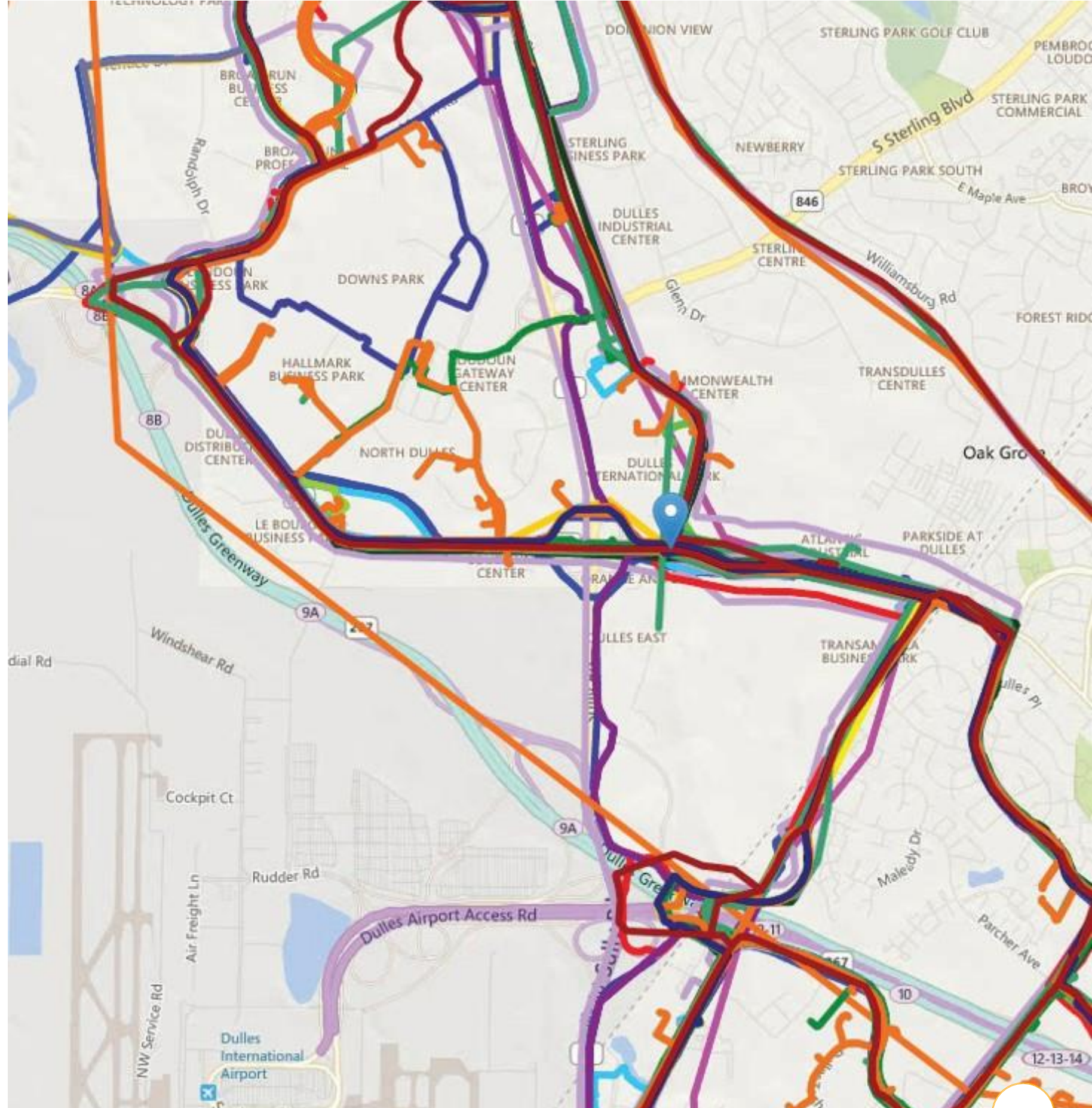# Metro Infrastructure

Available Metro Service Providers

Carriers

FiberLocator

1 Mile Metro

Metro Networks

- AiNet
- Atlantech Online
- CenturyLink Metro
- CenturyLink Metro Leased
- Fiberlight
- LIT Networks
- Level3 Metro
- Lightower
- Lightower Leased
- Lumos
- NOVEC
- PEG Bandwidth
- Shentel
- Summit IG
- Sunesys
- USA Fiber - UC
- Windstream
- XO Communications
- Yellow Fiber
- Zayo Dark
- Zayo Metro
- Zayo Planned Routes

Metro View — 1 Mile
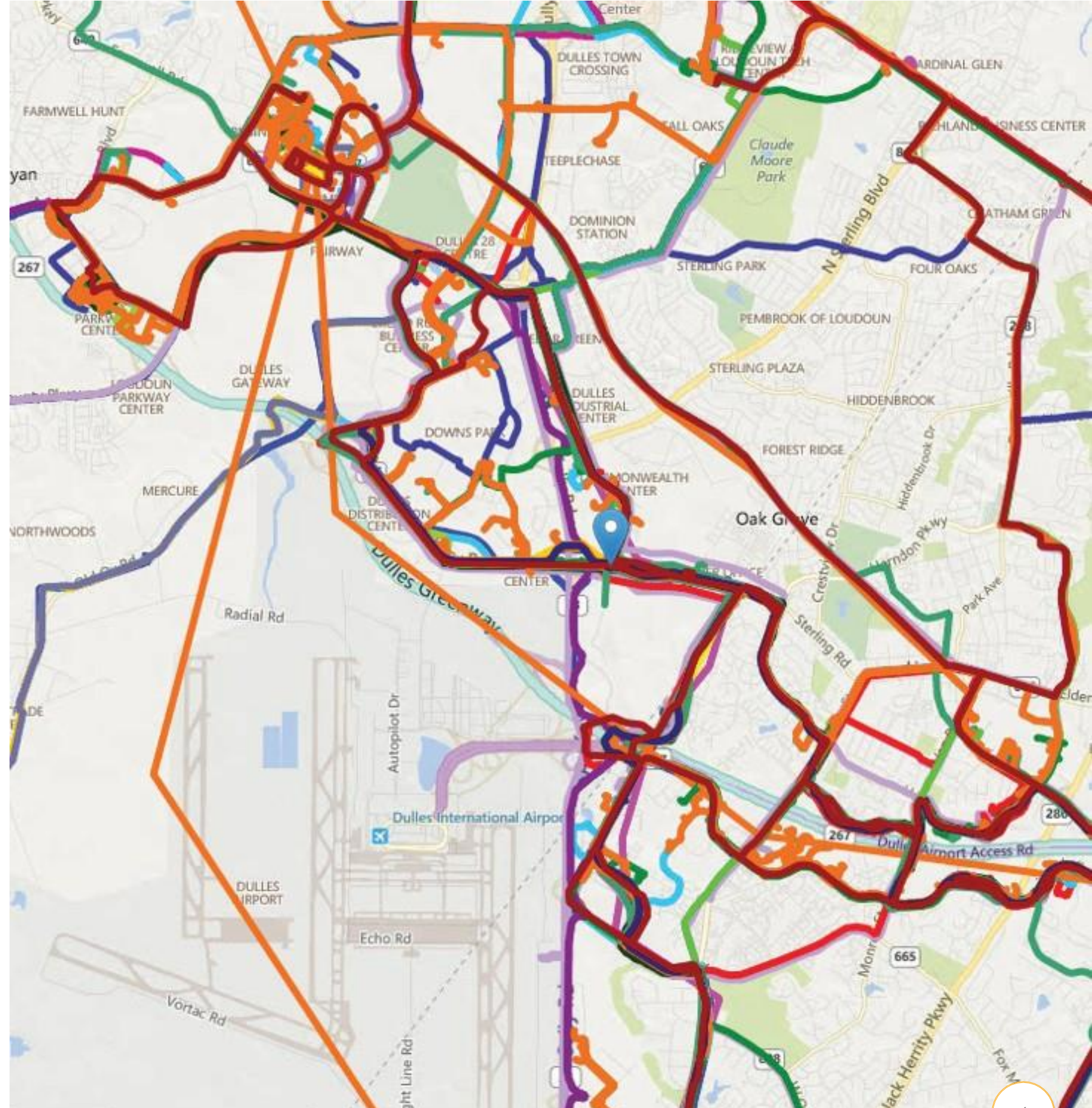
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FiberLocator

3 Mile Metro

Metro Networks

- AiNet
- Atlantech Online
- CenturyLink Metro
- CenturyLink Metro Leased
- Fiberlight
- LIT Networks
- Level3 Metro
- Lightower
- Lightower Leased
- Lumos
- NOVEC
- PEG Bandwidth
- Shentel
- Summit IG
- Sunesys
- USA Fiber - UC
- Windstream
- XO Communications
- Yellow Fiber
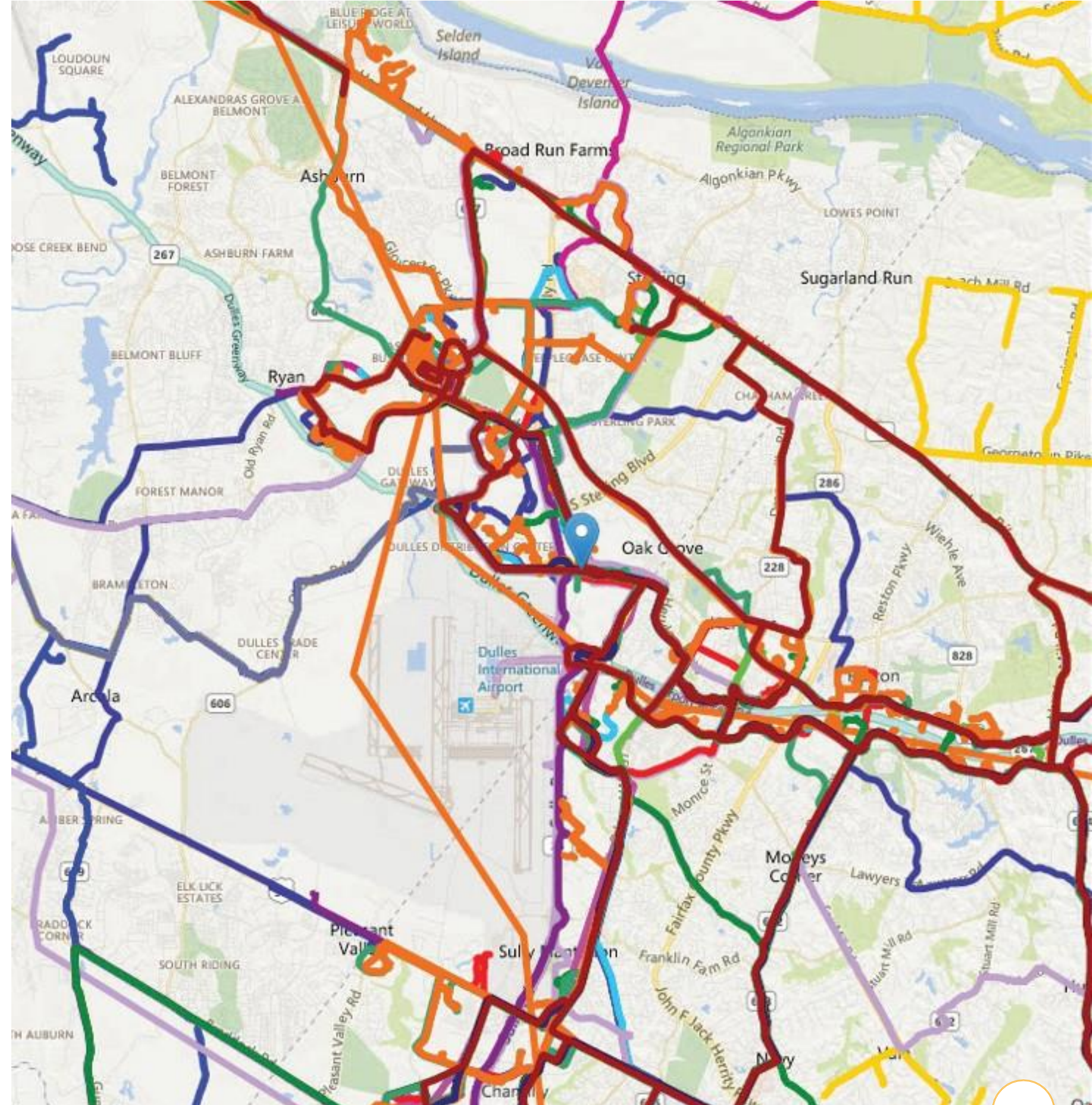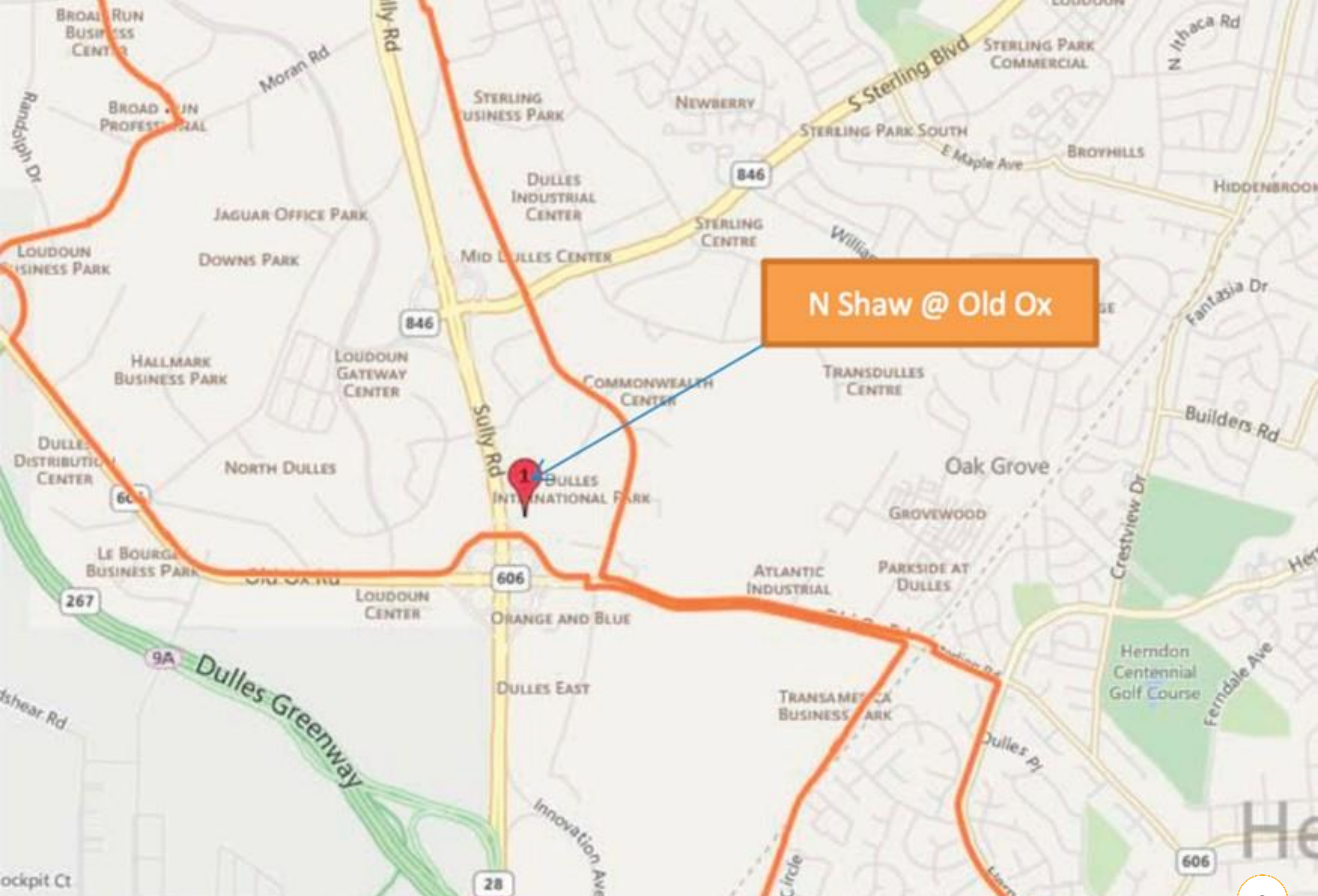- Zayo Dark
- Zayo Metro
- Zayo Planned Routes

Metro View — 3 Mile

FiberLocator

5 Mile Metro

Metro Networks

- ✔ AiNet
- ✔ Atlantech Online
- ✔ CenturyLink Metro
- ✔ CenturyLink Metro Leased
- ✔ Fiberlight
- ✔ LIT Networks
- ✔ Level3 Metro
- ✔ Lightower
- ✔ Lightower Leased
- ✔ Lumos
- ✔ Maryland Broadband Coo..
- ✔ NOVEC
- ✔ One Maryland ICBN
- ✔ PEG Bandwidth
- ✔ RCN
- ✔ Shentel
- ✔ Summit IG
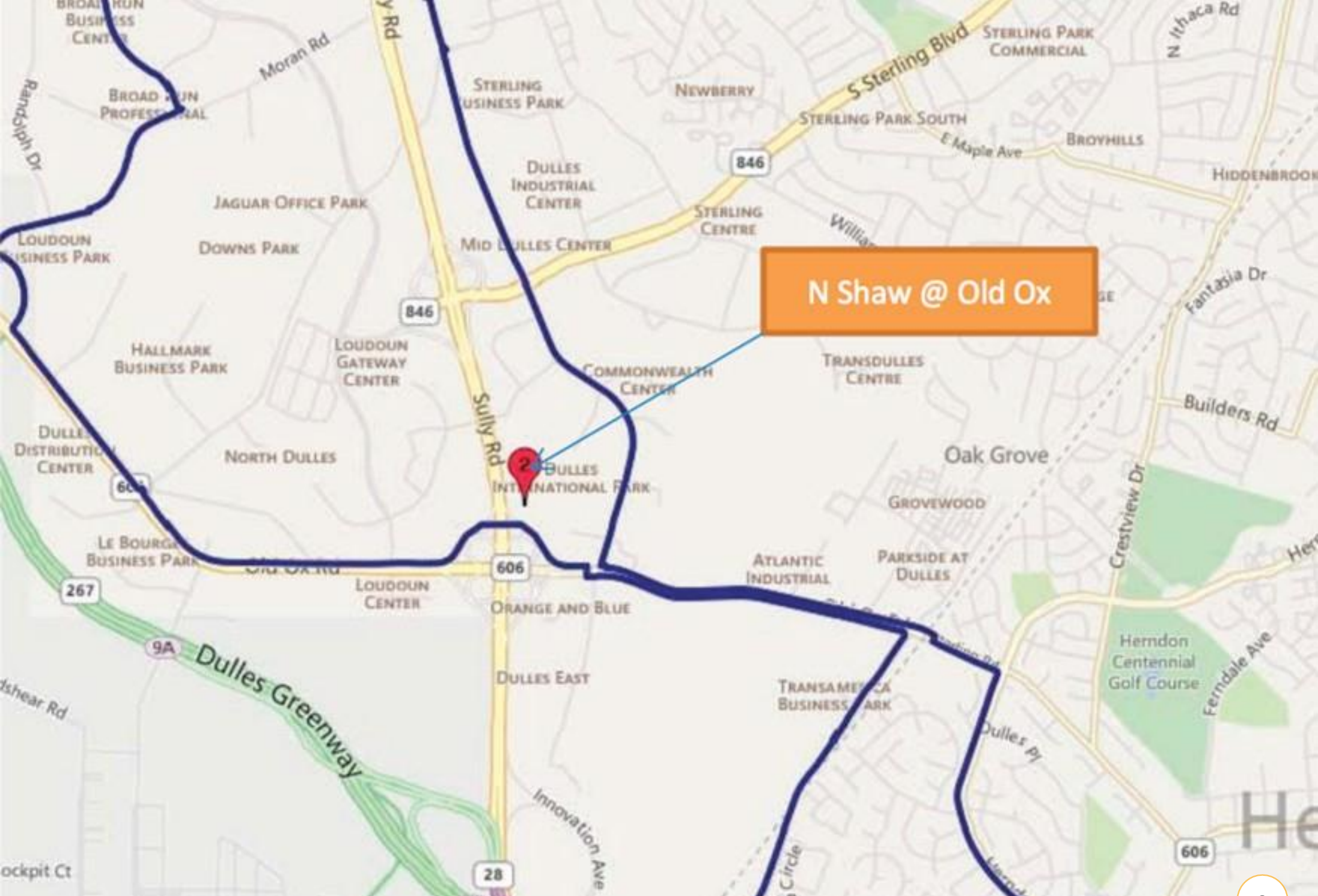- ✔ Sunesys
- ✔ USA Fiber - UC
- ✔ Windstream
- ✔ XO Communications
- ✔ Yellow Fiber
- ✔ Zayo Dark

Plus Additional Carriers..

Metro View — 5 Mile

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N Shaw @ Old Ox

24/7 Mid Atlantic Networks

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N Shaw @ Old Ox

N Shaw @ Old Ox

CenturyLink

N Shaw @ Old Ox

First Communications
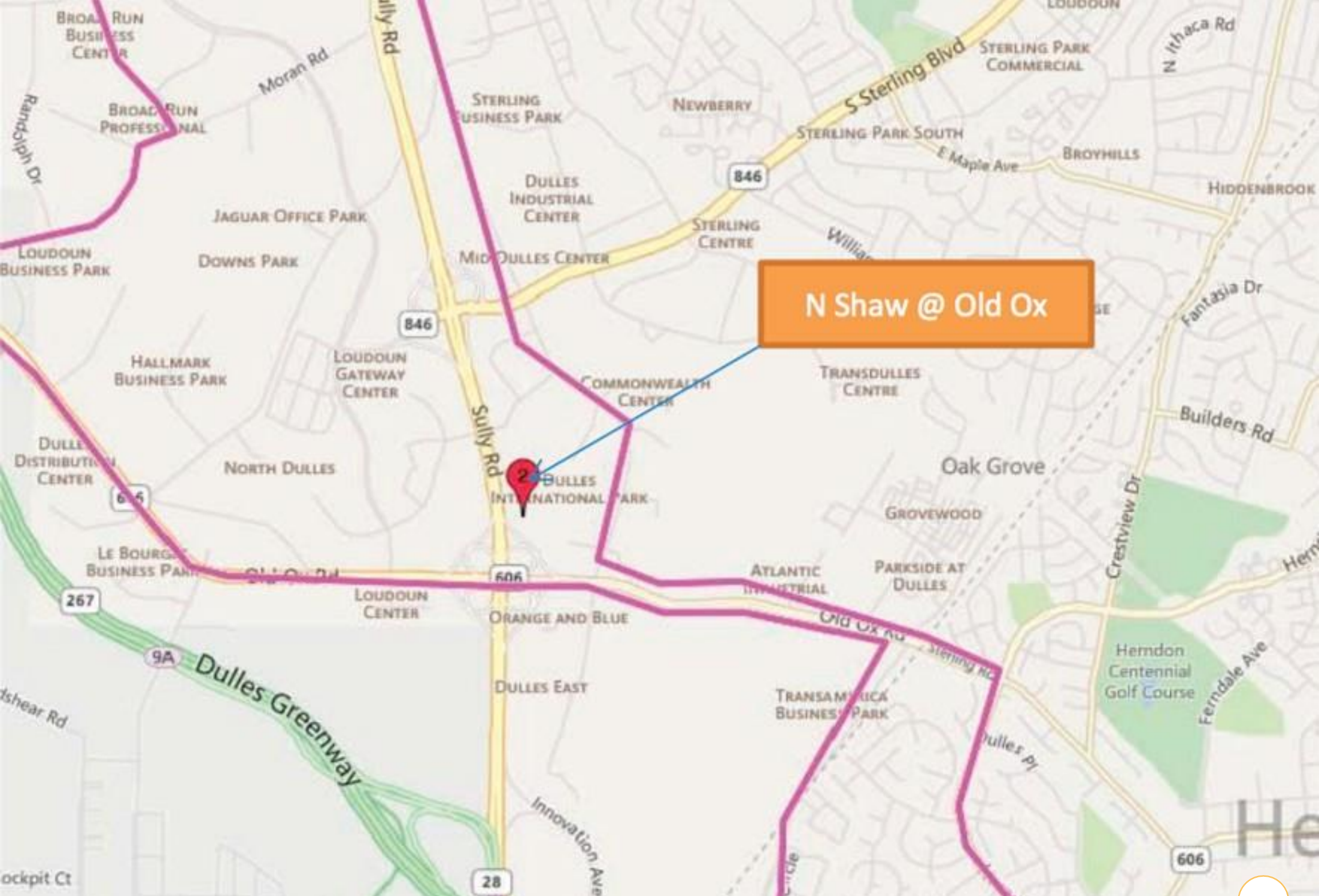
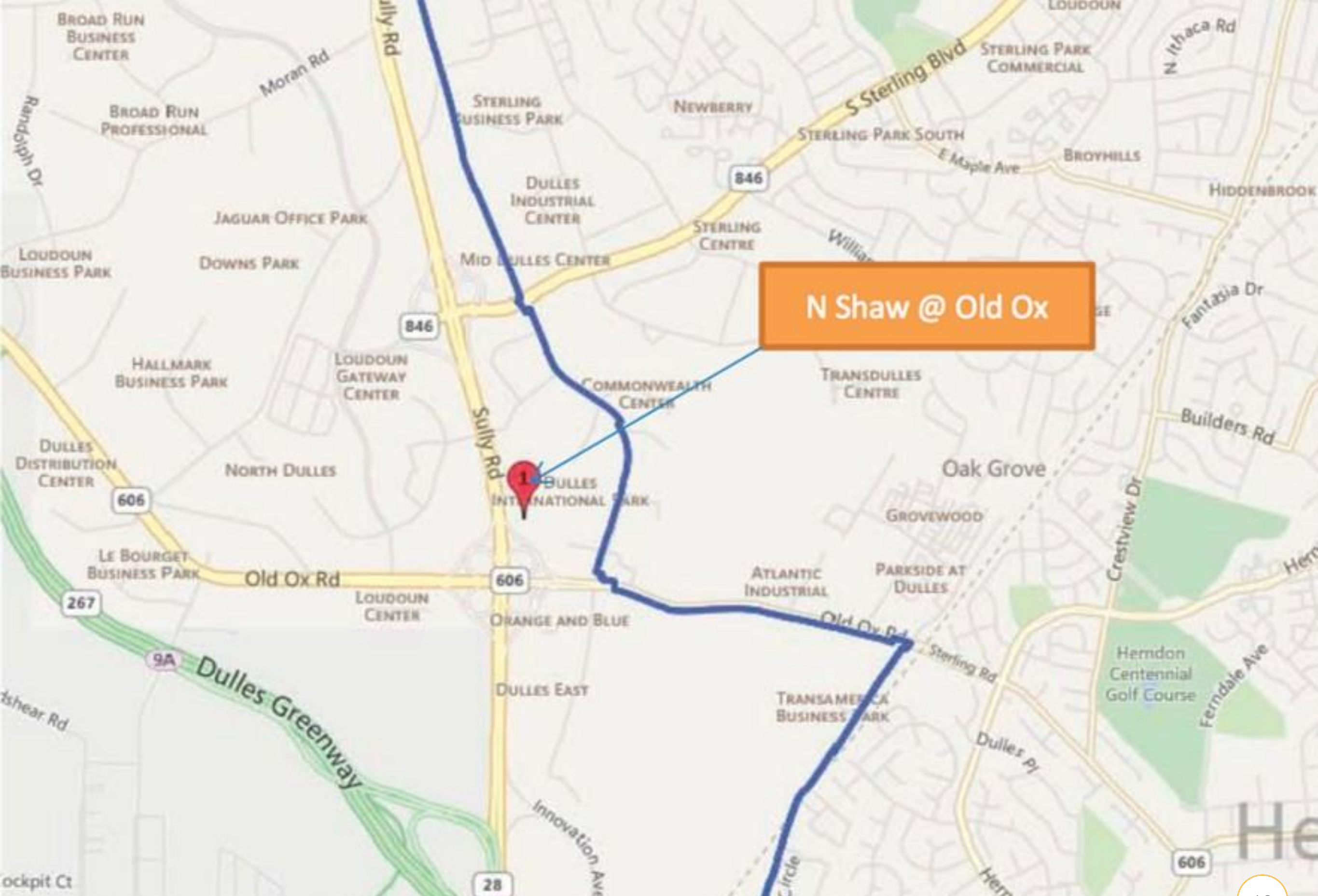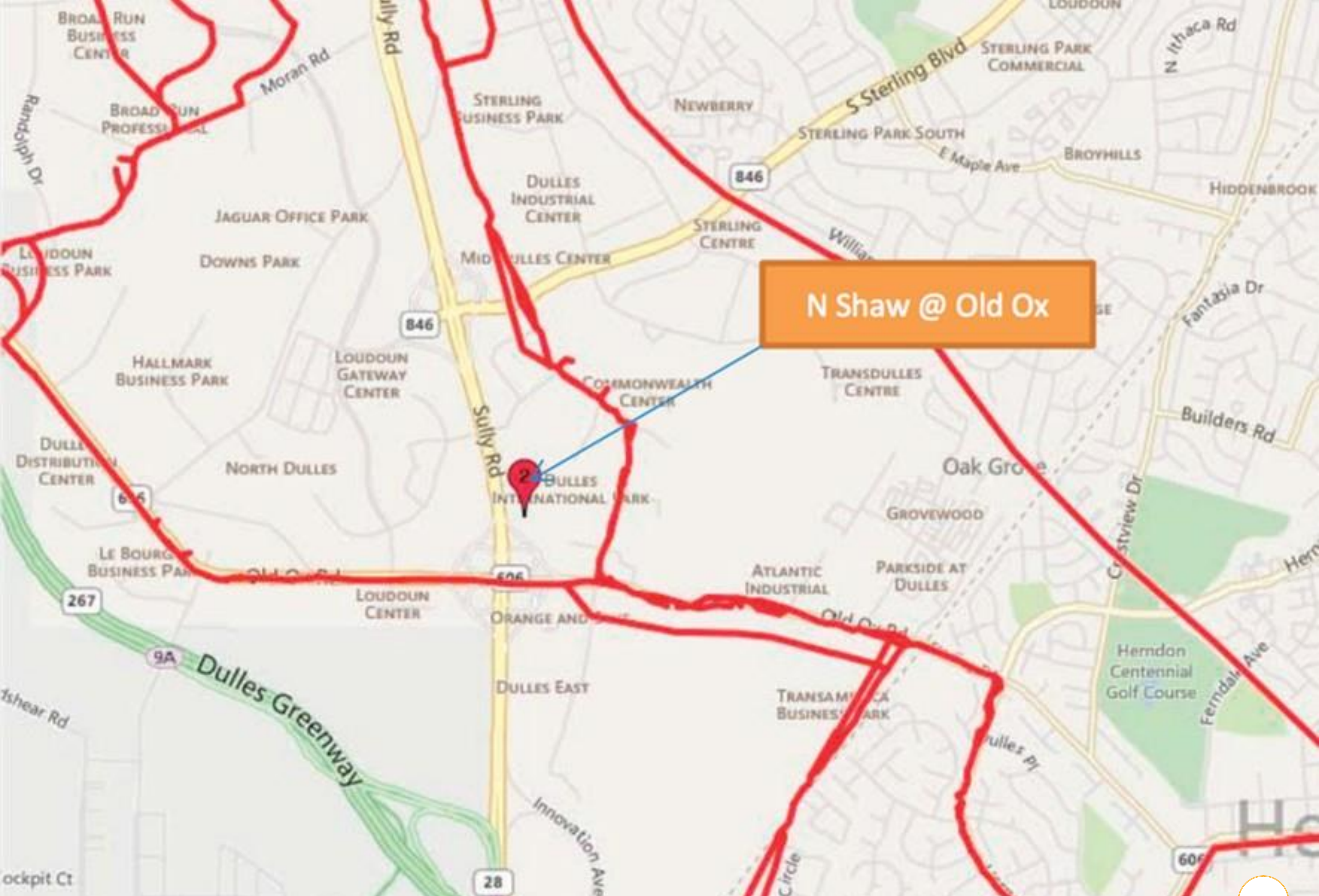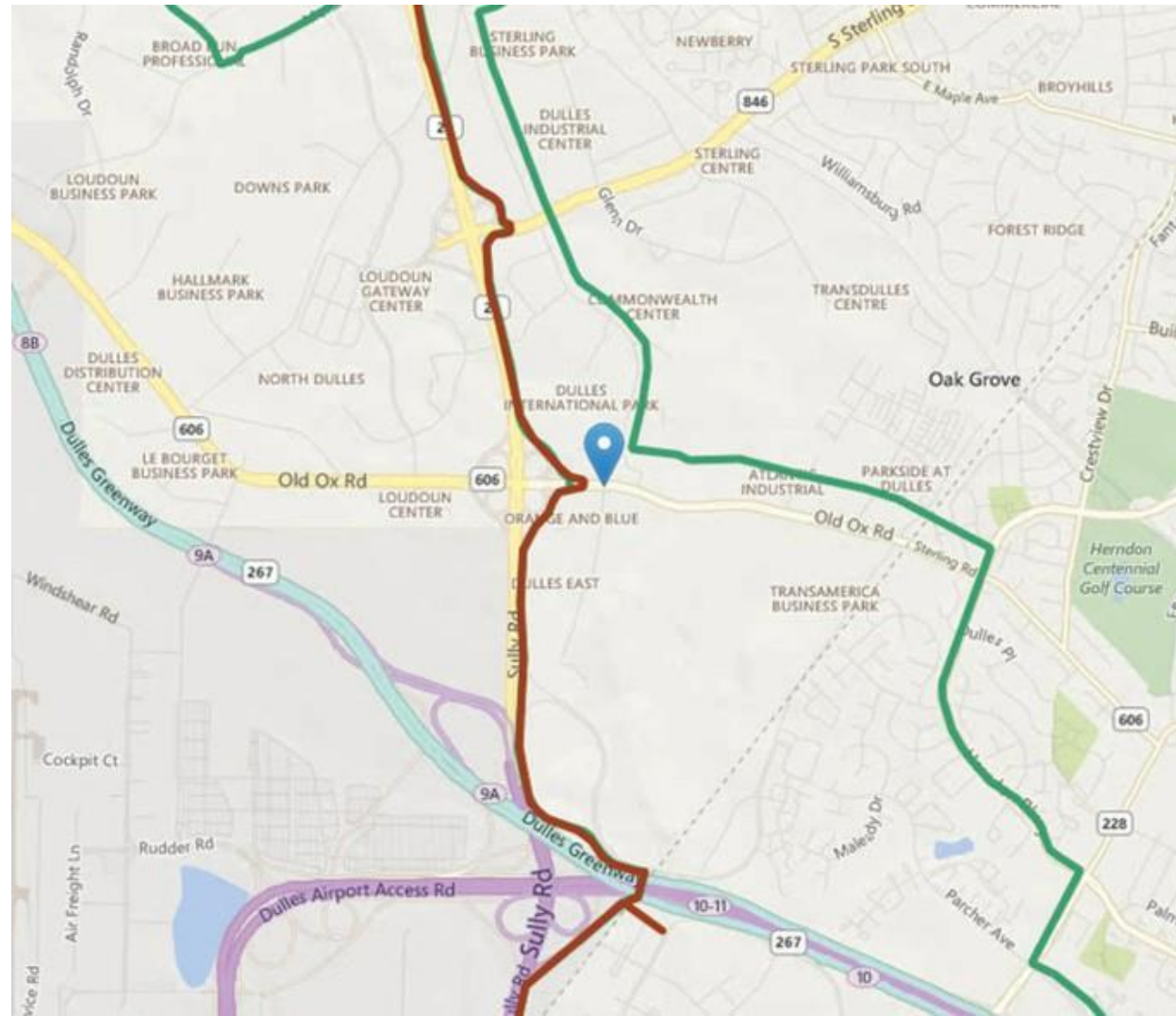N Shaw @ Old Ox

Global Cloud Xchange

N Shaw @ Old Ox

Level 3

Long-haul Network Overview

Long-haul networks carry traffic to and from different metropolitan areas. Typically connecting with metro networks at carrier hotels and other network interconnection locations to exchange traffic.

No long-haul networks are directly accessed at the location. There are long-haul networks Points of Presence (PoPs) within close proximity. Most long-haul networks traveling near Sterling add/drop within carrier hotels in Ashburn, Va., and Washington, D.C.
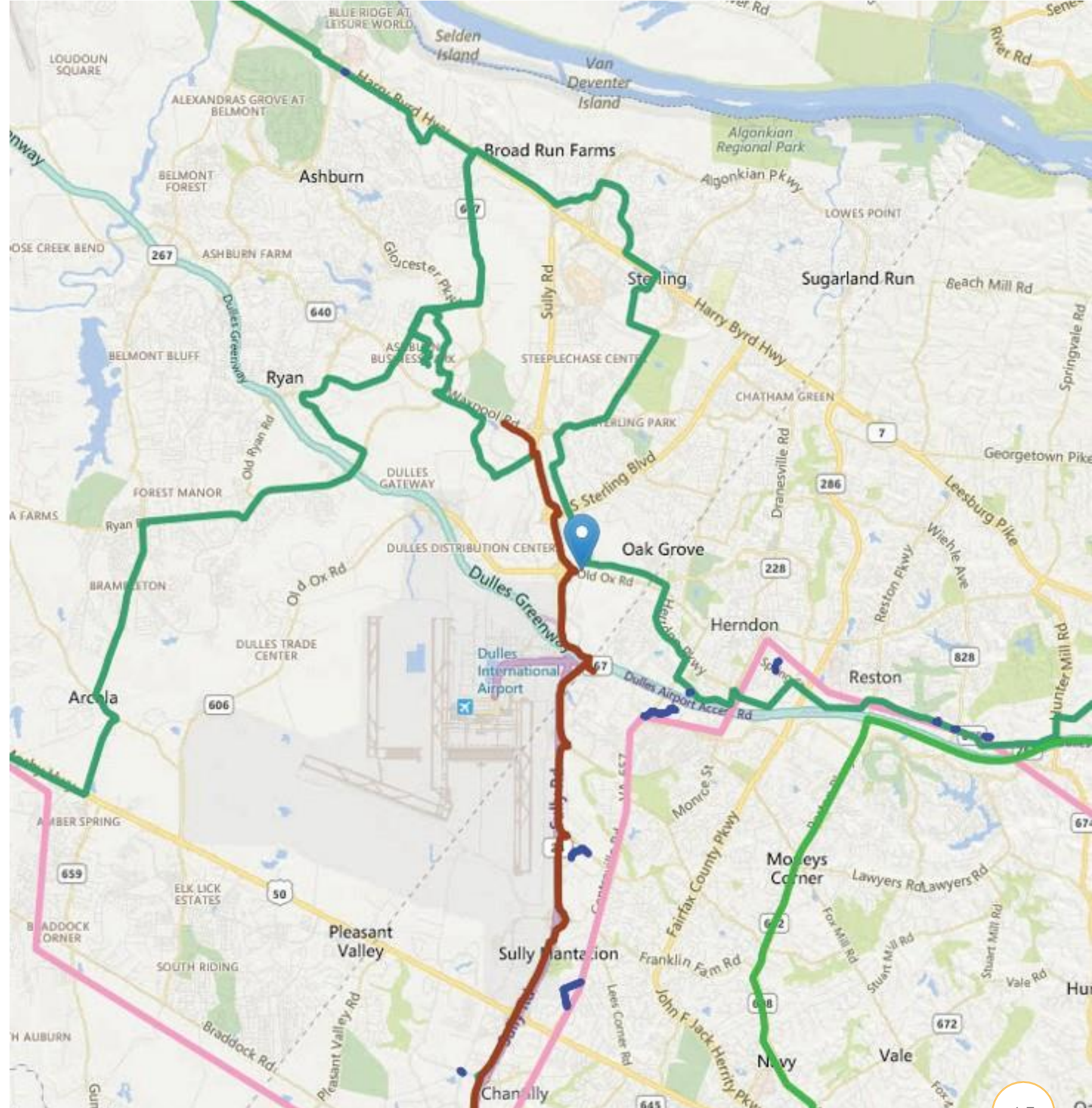
Long-Haul Networks

FiberLocator

5 Mile Long-Haul

Long Haul Networks

- EarthLink Long Haul
- Level 3 Long Haul
- Summit IG Dark Long Haul
- Windstream Long Haul
- XO Long Haul
- Zayo Dark Long Haul
- Zayo Long Haul

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Long-Haul View — 5 Mile

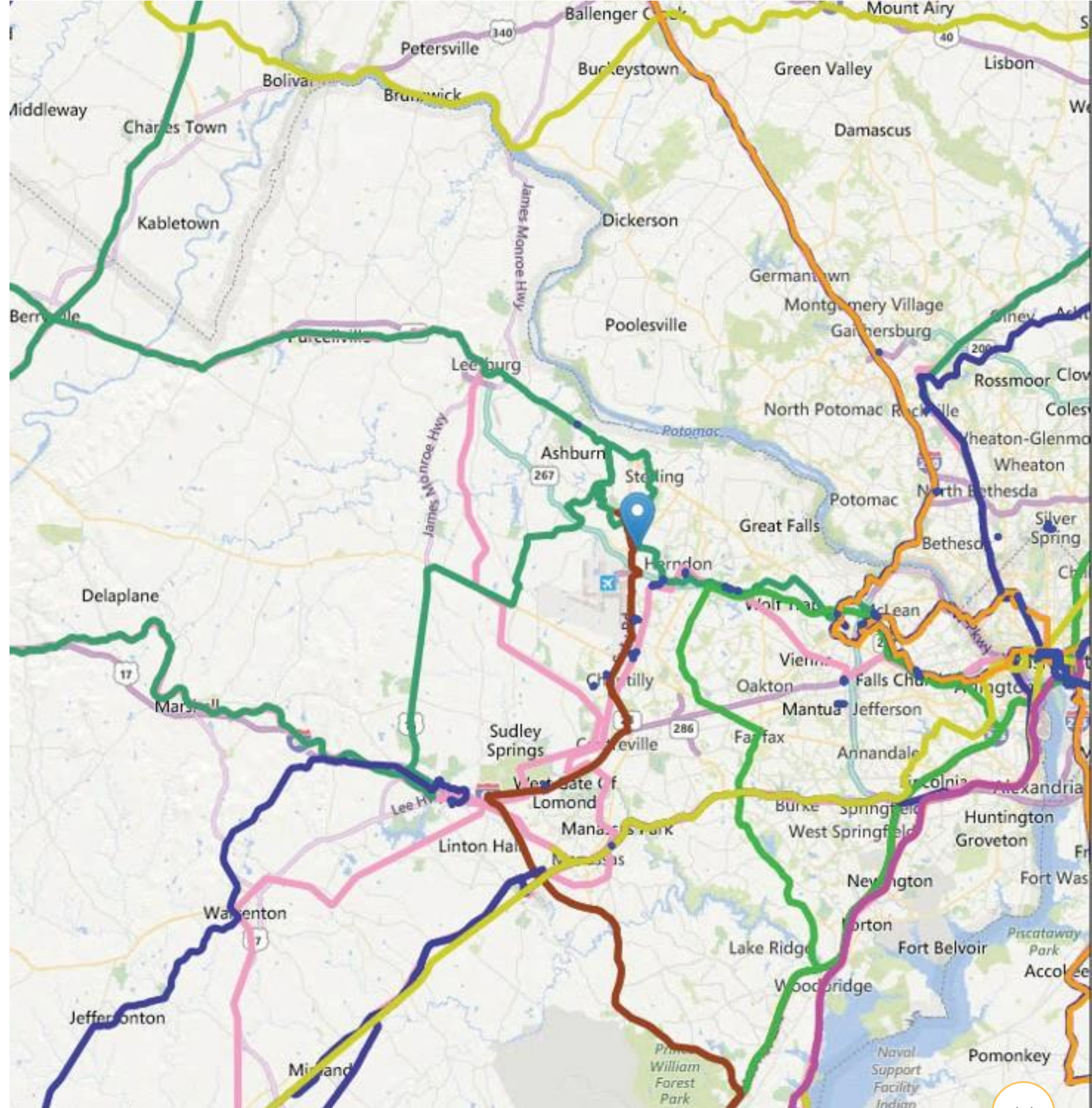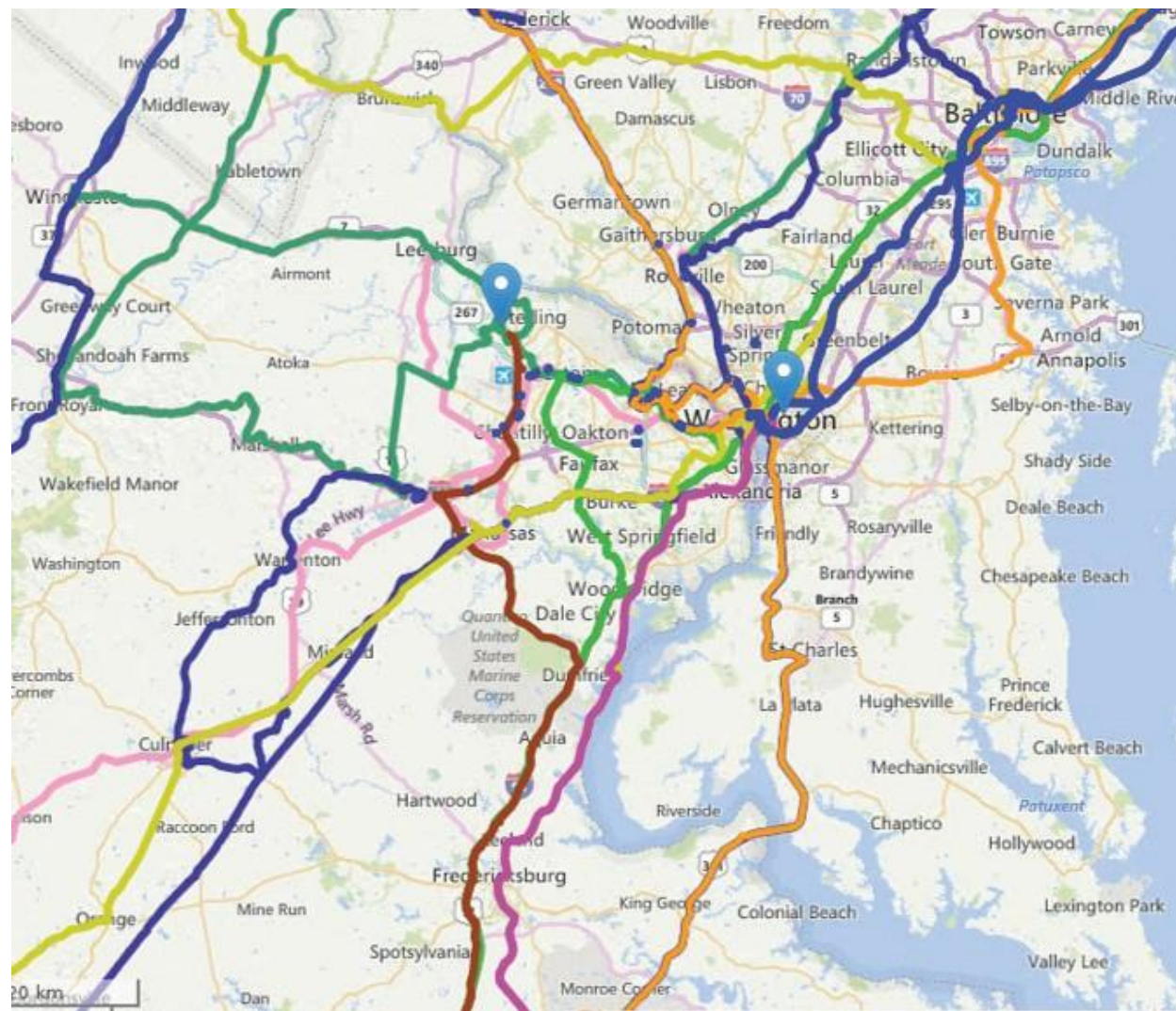NEF | www.NEFiber.com | 877.DK.FIBER

FiberLocator

20 Mile Long-Haul

Long Haul Networks

- CenturyLink Long Haul
- EarthLink Long Haul
- Level 3 Long Haul
- Sprint Long Haul
- Summit IG Dark Long Haul
- Verizon Long Haul
- Windstream Long Haul
- XO Long Haul
- Zayo Dark Long Haul
- Zayo Long Haul

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Long-Haul View — 20 Mile

Carrier Hotel Addresses:

- 1275 K St., Washington, D.C.

- 21711 Filigree Court, Ashburn, VA

The carrier hotel locations in the Washington, D.C., metro area are two of the most well-connected facilities in the United States.

Carrier hotels serve as central traffic hubs within a metropolitan area. Most data, voice and video traffic passes through the carrier hotels. There are often several carrier hotel sites within a metropolitan area where networks meet and exchange traffic.

Carrier Hotels
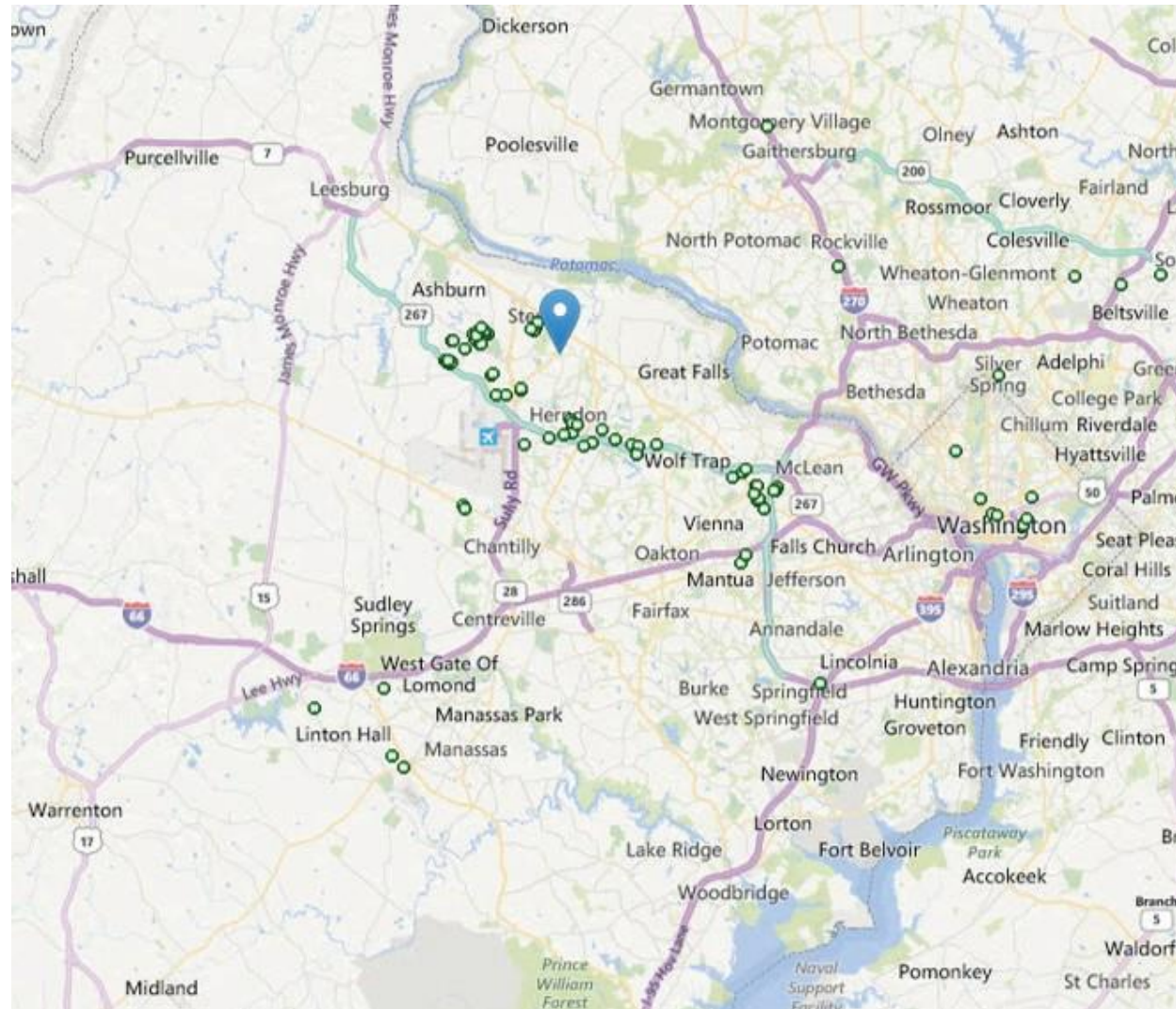
- 21711 Filigree Court, Ashburn, VA 20147 – Equinix
- 1275 K St., Washington, D.C. 20005 – Coresite
- 1175 Old Meadows Road, McLean, VA 22102 – Level 3
- 12001 Sunrise Valley Road, Sterling, VA 20191 - Coresite
- 1120 Vermont Ave. NW, Washington, D.C. 20005 – XO
- 1220 L St. NW., Washington, D.C. 20005 – DC74
- 20166 Sterling St., Washington, D.C. 20166 – Savvis
- 11513 Sunset Hills Road, Reston, VA 20190 – Equinix
- 13873 Park Center Road, Sterling, VA 20171 – InfoRelay Online Systems
- 1921 Gallows Road, Vienna, VA 22182 – Cogent
- 43881 Devin Shafron Drive, Ashburn, VA 20147 – Cogent

Data Centers
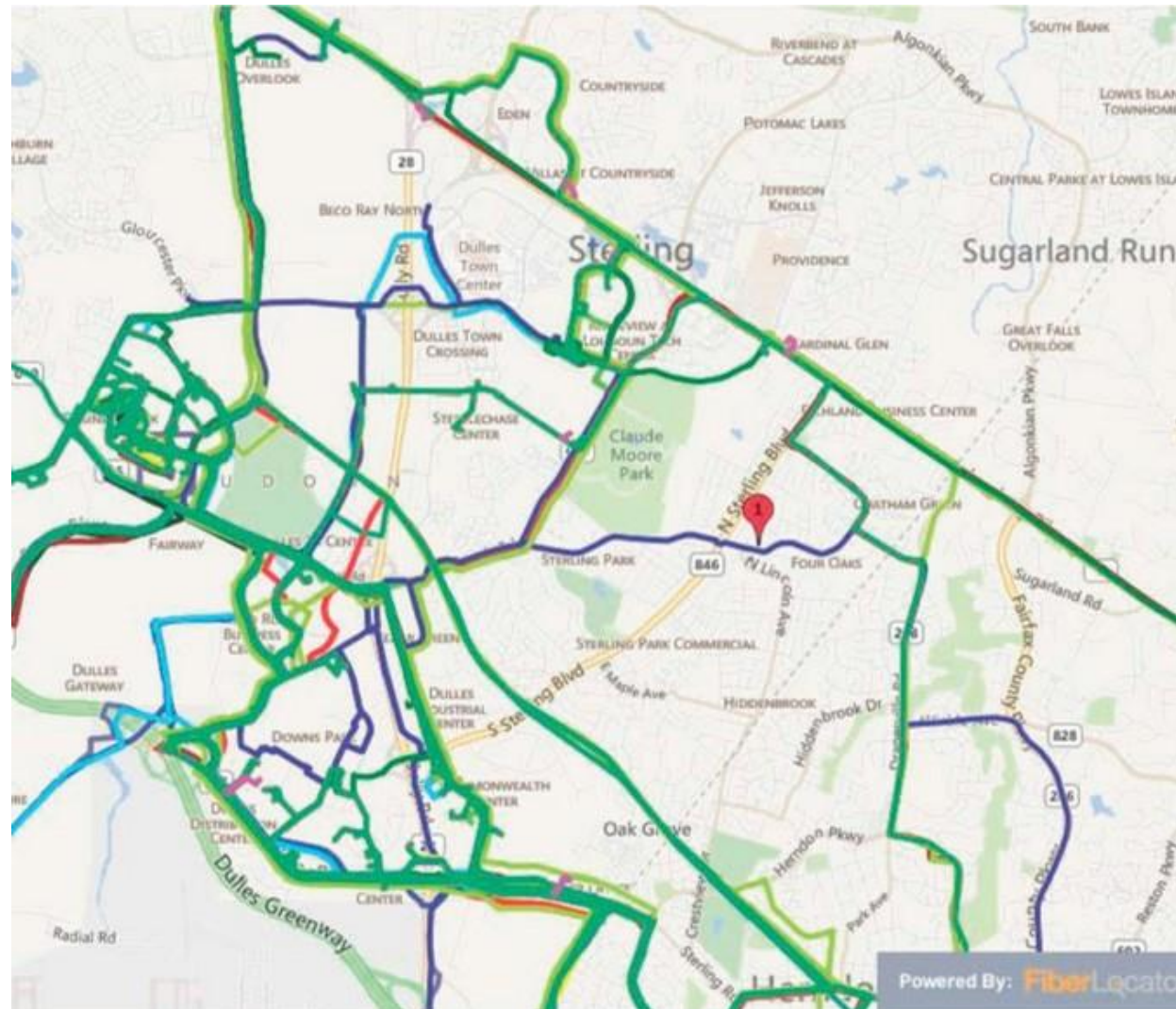
Thanks to plentiful long-haul and metro fiber infrastructure in the nearby area, **carrier and fiber path diversity can be created easily and cost effectively**, ensuring 23070 Shaw Road Sterling, Va., can access robust, cost effective high capacity network.

Network diversity is critical for ensuring services will remain in operation in the event of a systems failure. While many carriers in the metro area share common paths and some carriers operate by leasing fiber from other local providers, this location possesses the ability offer physical network path diversity and service provider diversity.

Network Diversity
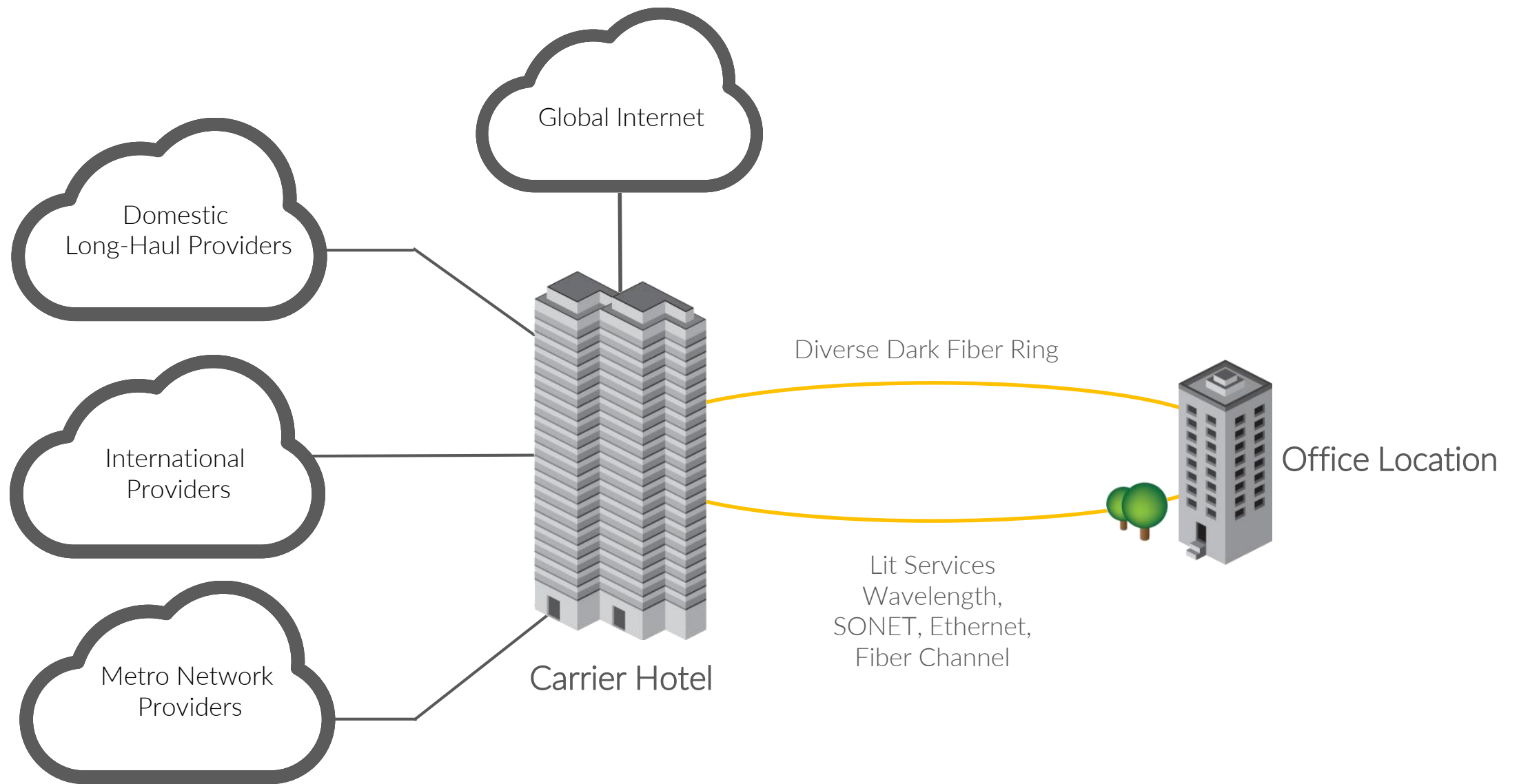
Ring to Carrier Hotel

NEF utilizes its proprietary suite of database resources along with tribal knowledge and numerous industry relationships to provide no-nonsense assessments and provider-neutral recommendations, including the following:

- Pricing on available providers

- Physical and provider diversity

- Latency study

- Go/no-go recommendations on feasibility or availability

- Evaluations of telecom connectivity options for specific high-bandwidth applications

- Analyses of the viability of IT and network solutions, including cloud

NEF has created reports and research designed to help organizations make network infrastructure decisions, real estate investments and data center evaluations.

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About This Report

This data center validation is intended to provide an overview of the available providers and their metro- and long-haul networks at/near the location of interest. It contains a variety of maps and analyses of the infrastructure in the surrounding area, including carrier-specific routes, data centers and additional background information.

The information in this report is based on carrier-supplied records, in-house research and publically accessible data. The data and records have not been independently verified by New England Fiber, Inc. ("NEF"), and NEF makes no representations or warranties the information is accurate, up-to-date, complete or fit for the purpose for which it is required. NEF disclaims any liability for the use of this information and, to the maximum extent permitted by law, any liability for losses or damages through the use of this report. Third-party information is also referenced for convenience only, for which NEF does not express any opinion and disclaims liability for its use.

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