August 15,2019

Percent Person of Miles Travel In Excessively Congested Conditions, (PECC), Weekday, 60% of Posted Speed Limit

- 0% - 10%
- 10% - 15%
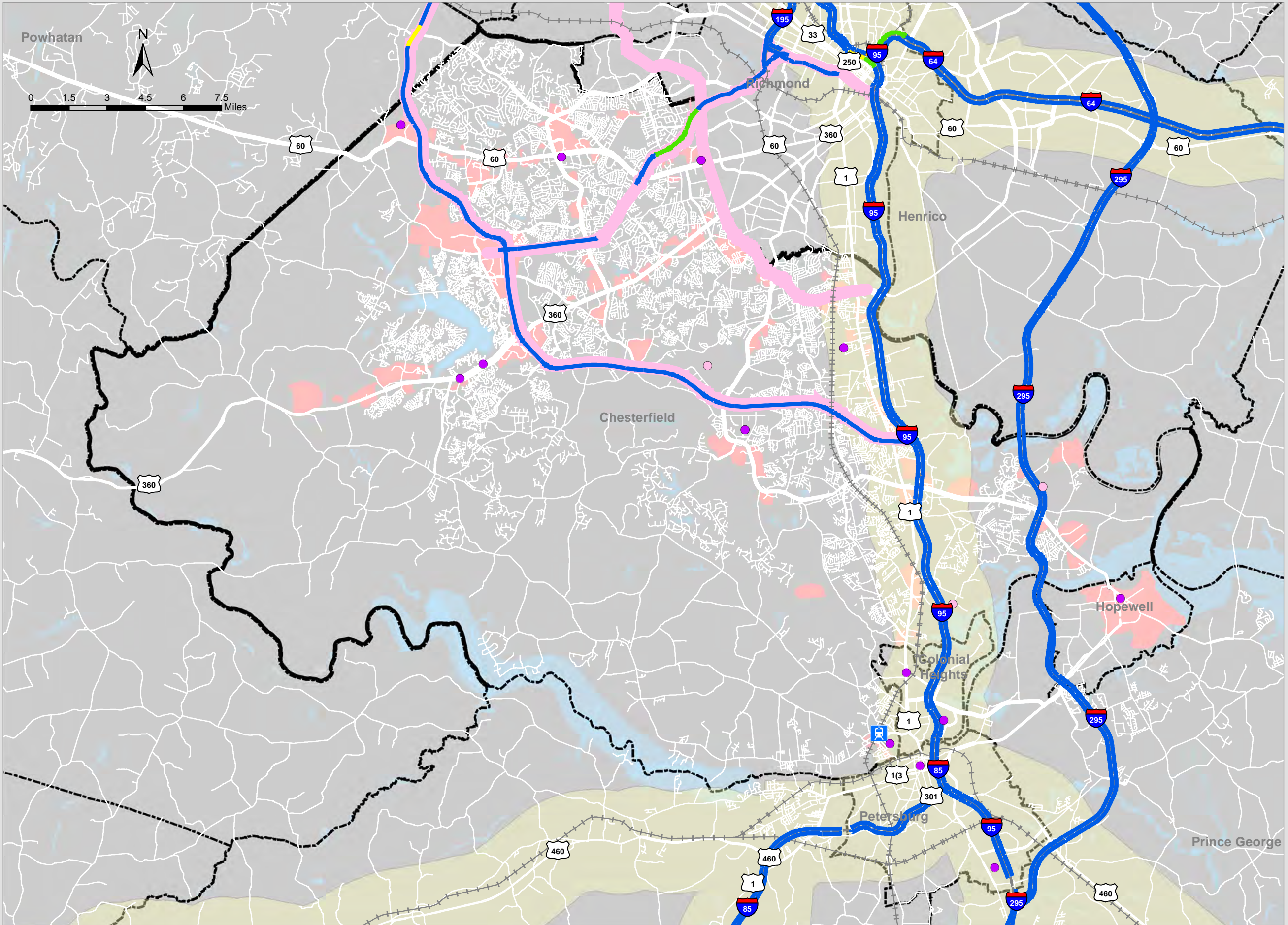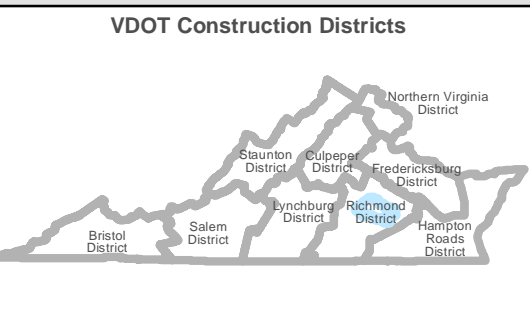- 15% - 20%
- 20% - 25%
- Greater than 25%
- No Data

Activity Centers
- ○ Freight dependent
- ● Knowledge
- ● Local serving
- ⌂ Ports
- 🚊 Amtrak/Passenger Rail Stations
- ✈ Airports
- -- - Interstates

Annual Average Daily Traffic (AADT)
- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- +-+- Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development Areas
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

Northern Virginia District
Staunton District
Culpeper District
Fredericksburg District
Lynchburg District
Richmond District
Bristol District
Salem District
Hampton Roads District

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Date: 8/13/2019

Powhatan

Richmond

Henrico

Chesterfield

Hopewell

Colonial Heights

Petersburg

Prince George

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Congestion Measure for Interstates and Select Limited Access Facilities: Crater and Southside Area

August 15, 2019

Percent Person of Miles Travel In Excessively Congested Conditions, (PECC), Weekday, 60% of Posted Speed Limit

- 0% - 10%
- 10% - 15%
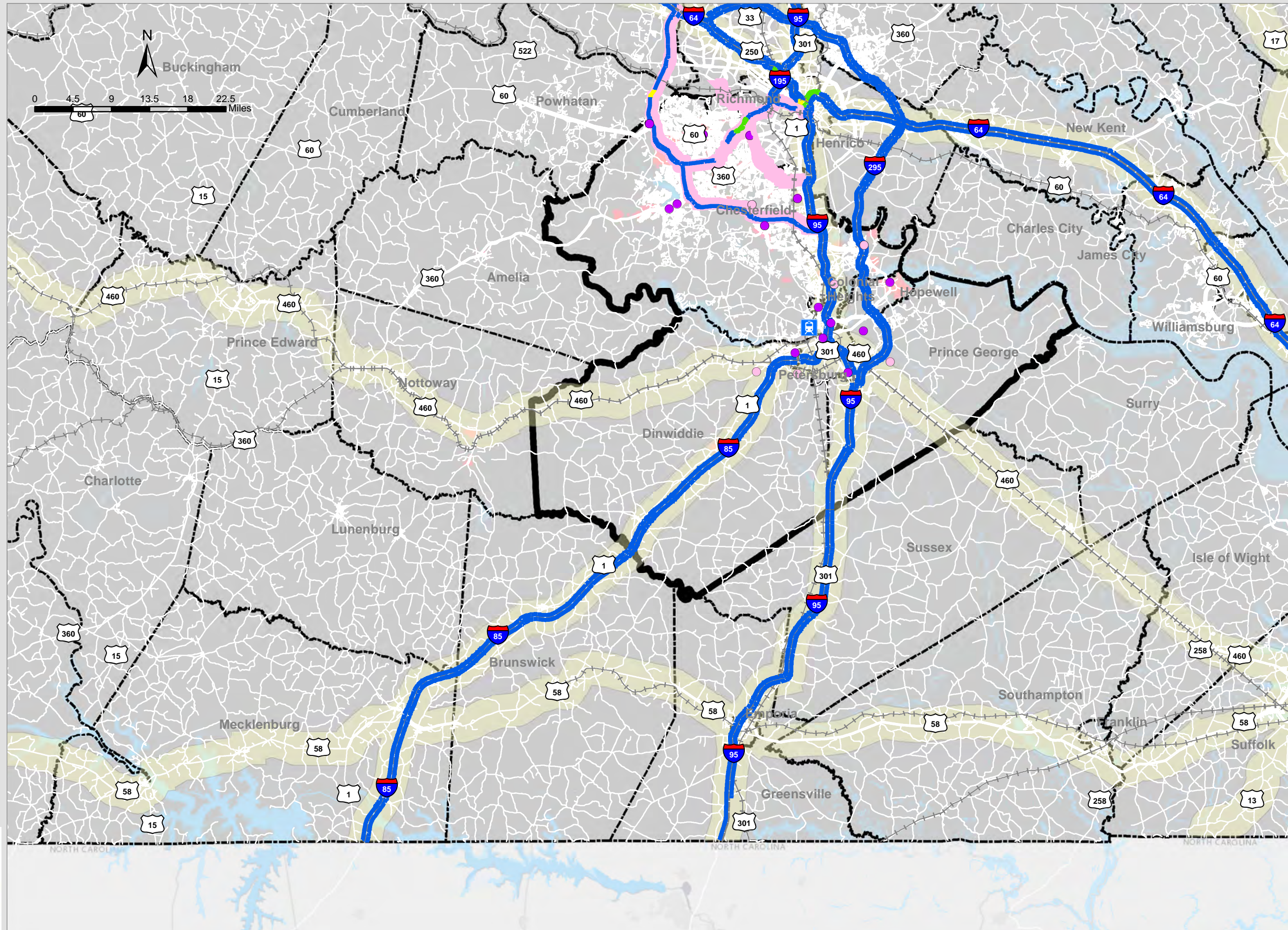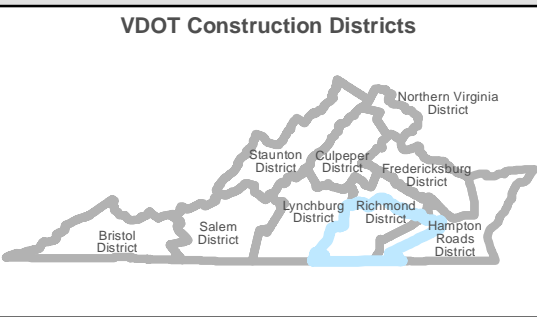- 15% - 20%
- 20% - 25%
- Greater than 25%
- No Data

Activity Centers
- Freight dependent
- Knowledge
- Local serving
- Ports
- Amtrak/Passenger Rail Stations
- Airports
- Interstates

Annual Average Daily Traffic (AADT)
- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development Areas
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

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Congestion Measure for Interstates and Select Limited Access Facilities: Crater and Southside Area North

August 15, 2019

Percent Person of Miles Travel In Excessively Congested Conditions, (PECC), Weekday, 75% of Posted Speed Limit
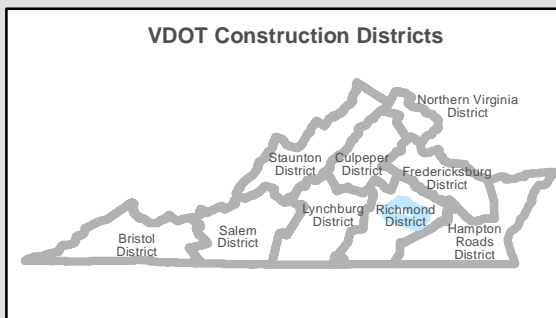
- 0% - 10%
- 10% - 15%
- 15% - 20%
- 20% - 25%
- Greater than 25%
- No Data

Activity Centers

- ○ Freight dependent
- ● Local serving
- Ports
- Amtrak/Passenger Rail Stations
- ✈ Airports
- - - Interstates

Annual Average Daily Traffic (AADT)

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

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Richmond
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Chesterfield
Hopewell
Colonial Heights
Petersburg
Prince George

Congestion Measure for Interstates and Select Limited Access Facilities: Crater and Southside Area

August 15, 2019

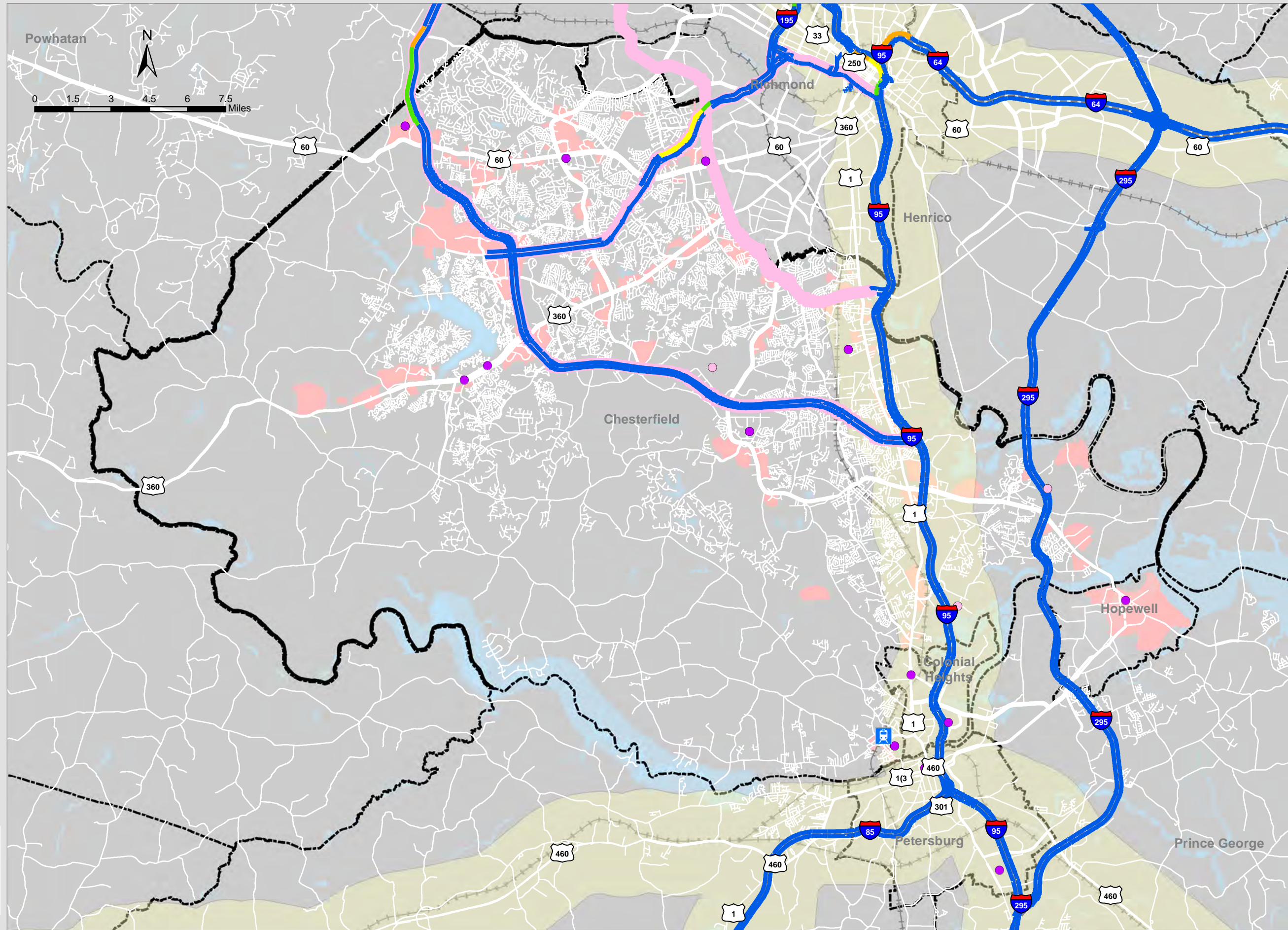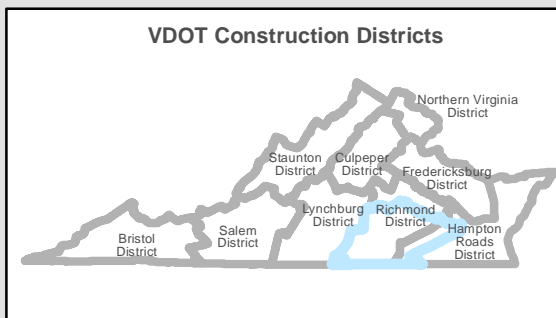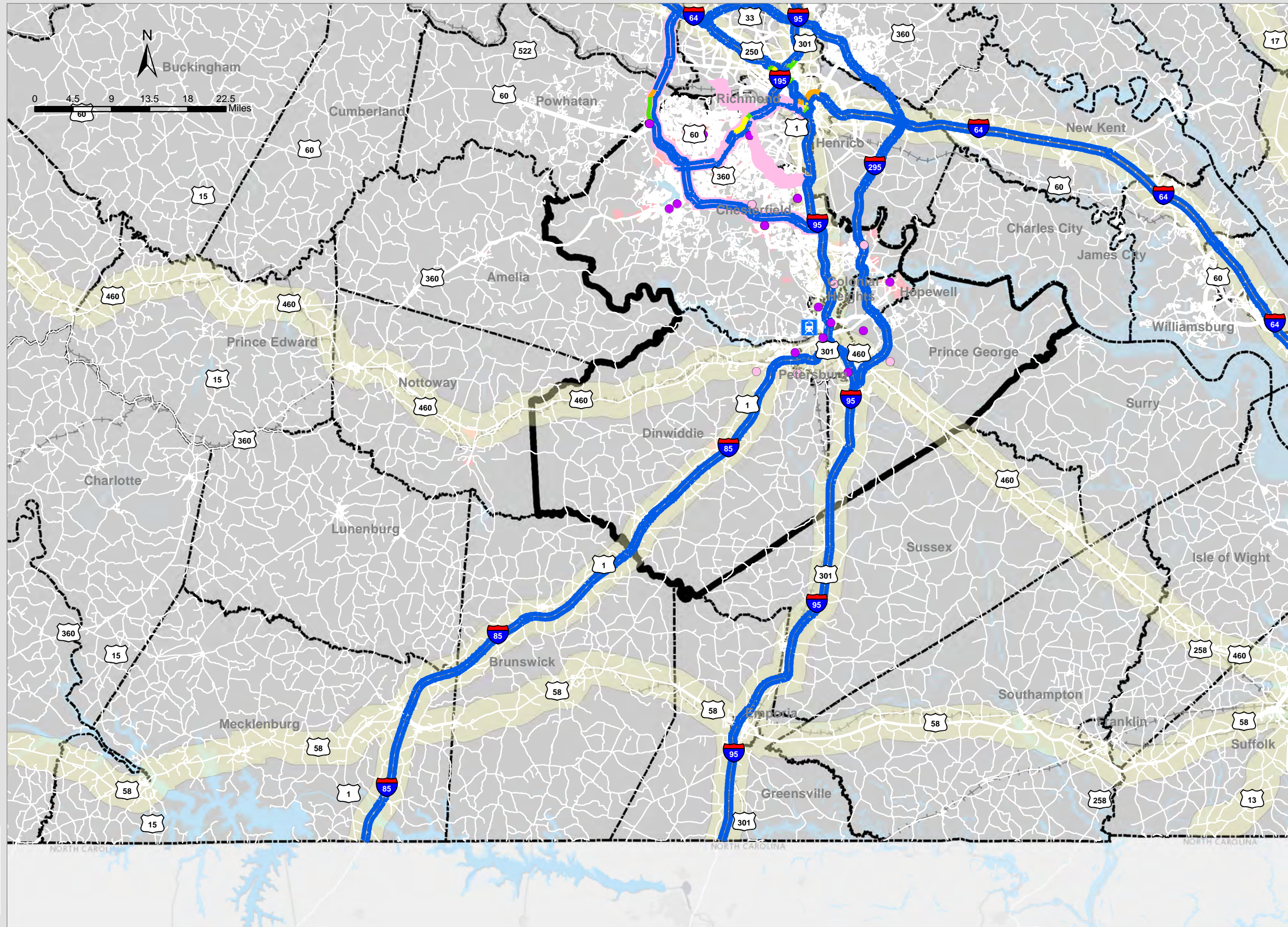**Percent Person of Miles Travel In Excessively Congested Conditions, (PECC), Weekday, 75% of Posted Speed Limit**

- 0% - 10%
- 10% - 15%
- 15% - 20%
- 20% - 25%
- Greater than 25%
- No Data

Activity Centers
- ○ Freight dependent
- ● Local serving
- Ports
- Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates

Annual Average Daily Traffic (AADT)
- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

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Congestion Measure for Interstates and Select Limited Access Facilities: Crater and Southside Area North

August 15,2019

Percent Person of Miles Travel In Excessively Congested Conditions, (PECC), Weekday, 90% of Posted Speed Limit

- ▬ 0% - 10%
- ▬ 10% - 15%
- ▬ 15% - 20%
- ▬ 20% - 25%
- ▬ Greater than 25%
- No Data

Activity Centers

- ○ Freight dependent
- ● Knowledge
- ● Local serving
- 🚢 Ports
- 🚆 Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates

Annual Average Daily Traffic (AADT)

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- ┼┼┼ Rail Network
- ▬ Other Selected Limited Access Facilities
- ▬ Buffer around Primary COSS Facilities
- ▬ Urban Development
- ▭ Regional Network
- ⬚ Counties and Cities
- ▭ Water

VDOT Construction Districts

Northern Virginia District
Staunton District
Culpeper District
Fredericksburg District
Bristol District
Salem District
Lynchburg District
Richmond District
Hampton Roads District

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Date: 8/13/2019

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Powhatan
Richmond
Henrico
Chesterfield
Hopewell
Colonial Heights
Petersburg
Prince George

Congestion Measure for Interstates and Select Limited Access Facilities: Crater and Southside Area

August 15, 2019

Percent Person of Miles Travel In Excessively Congested Conditions, (PECC), Weekday, 90% of Posted Speed Limit

- 0% - 10%
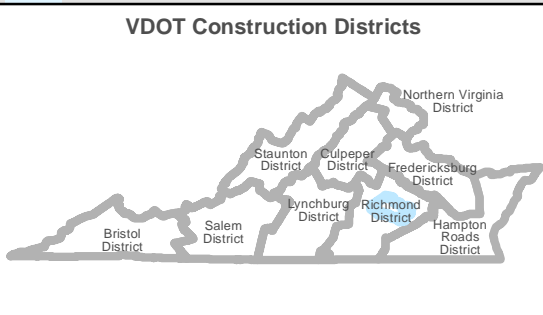- 10% - 15%
- 15% - 20%
- 20% - 25%
- Greater than 25%
- No Data

Activity Centers

- Freight dependent
- Knowledge
- Local serving
- Ports
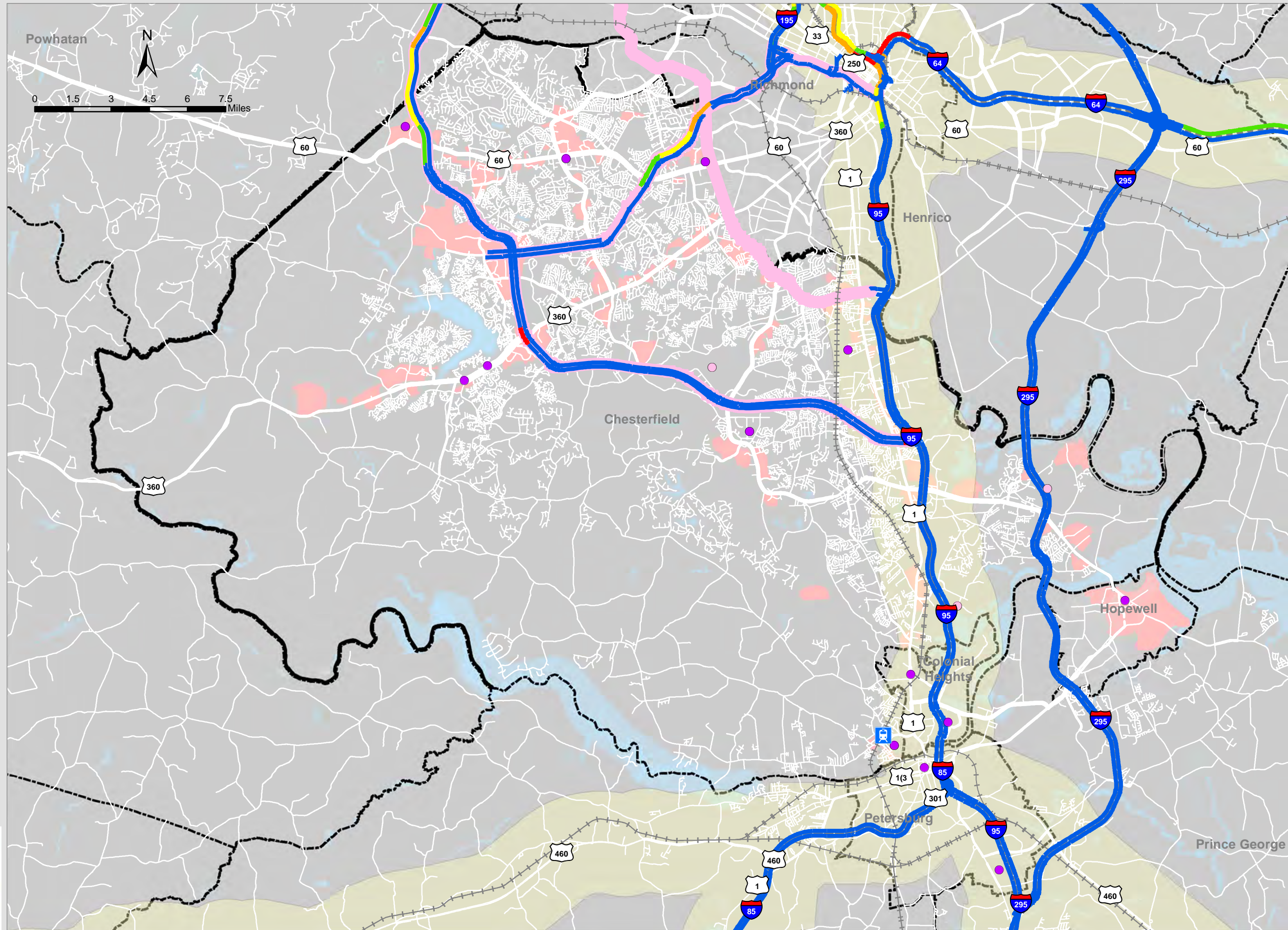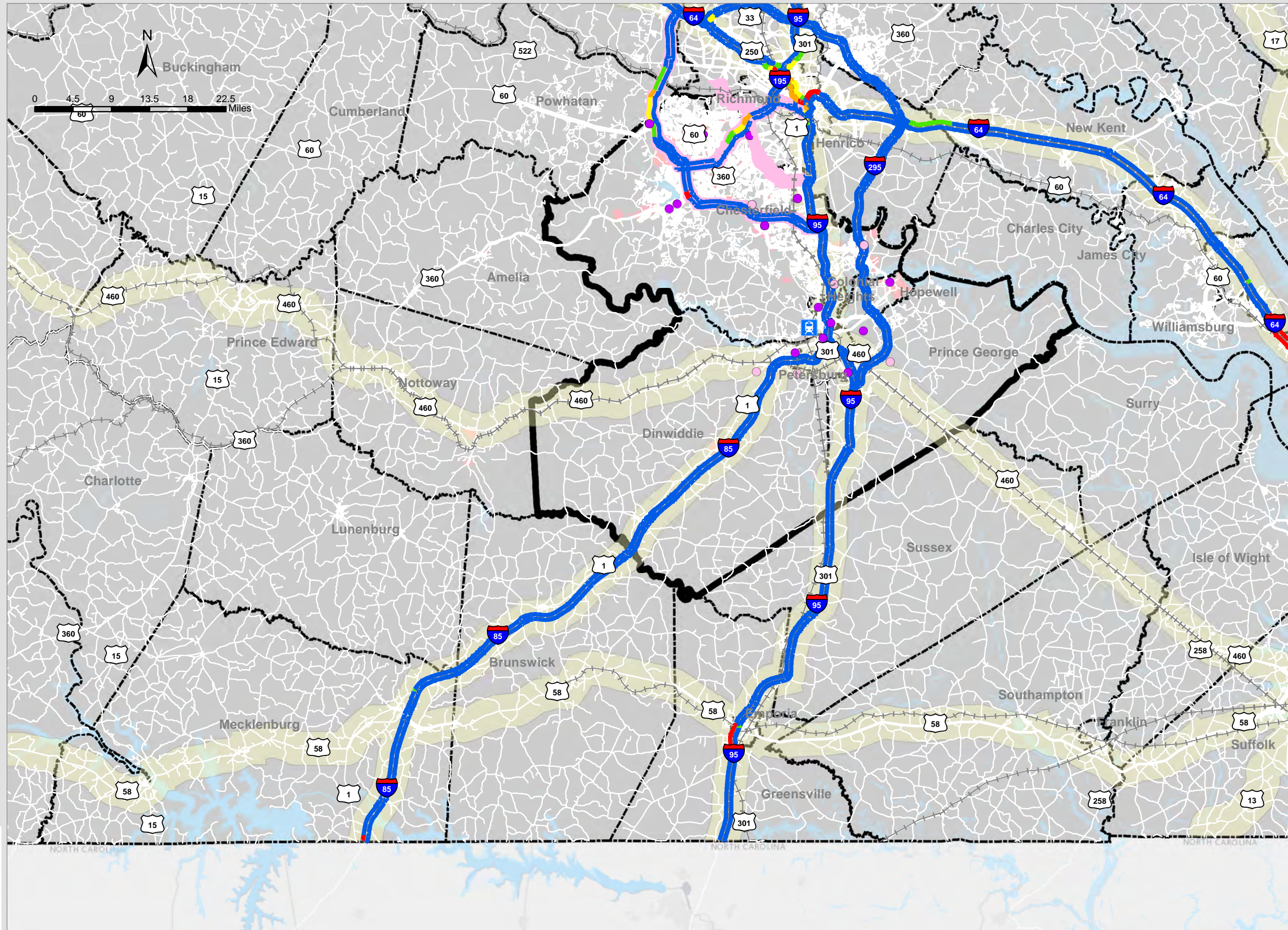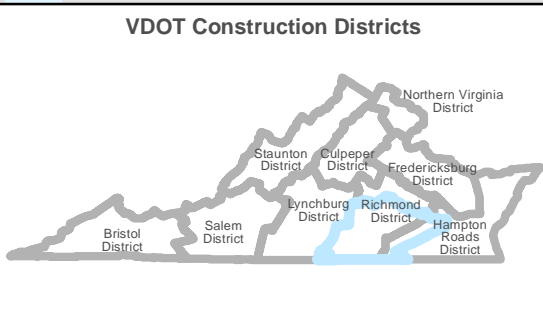- Amtrak/Passenger Rail Stations
- Airports
- Interstates

Annual Average Daily Traffic (AADT)

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

Northern Virginia District
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August 15, 2019

minimum TTI value shown 1.5

- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- Greater than 3.0

Activity Centers

- Freight dependent
- Knowledge
- Local serving
- Ports
- Amtrak/Passenger Rail Stations
- Airports
- Interstates

Annual Average Daily Traffic (AADT)

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Other Selected Limited Access Facilities
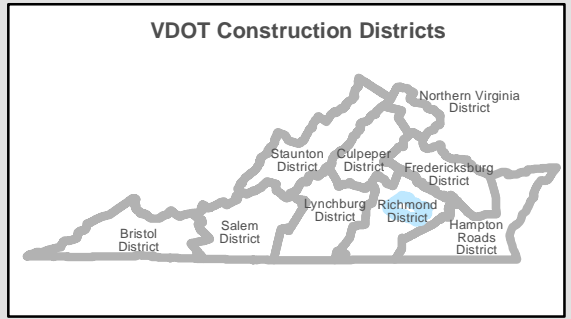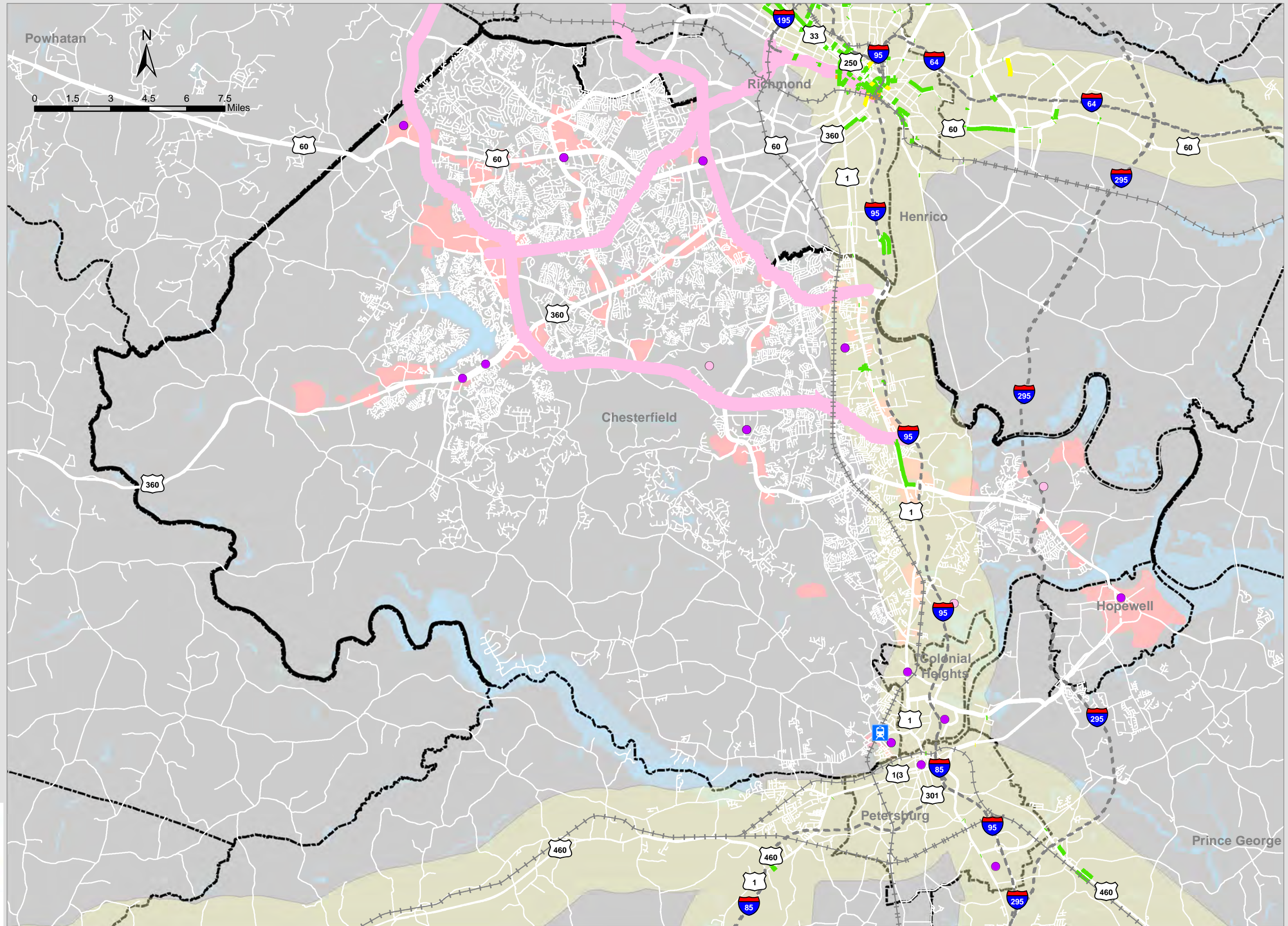- Buffer around Primary COSS Facilities
- Rail Network
- Urban Development Areas
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

Northern Virginia District
Staunton District
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Date: 8/13/2019

Powhatan
Richmond
Henrico
Chesterfield
Colonial Heights
Hopewell
Petersburg
Prince George

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Congestion Measure for Non-Limited-Access COSS and Regional Network: Crater and Southside Area

Map 2

August 15, 2019

minimum TTI value shown 1.5

- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 3.0
- Greater than 3.0

Activity Centers
- ○ Freight dependent
- ○ Knowledge
- ● Local serving
- ⛴ Ports
- 🚉 Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates

Annual Average Daily Traffic (AADT)
- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Other Selected Limited Access Facilities
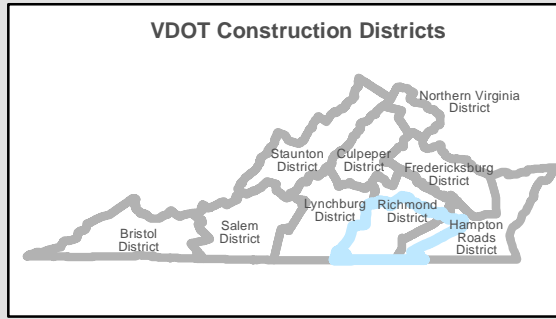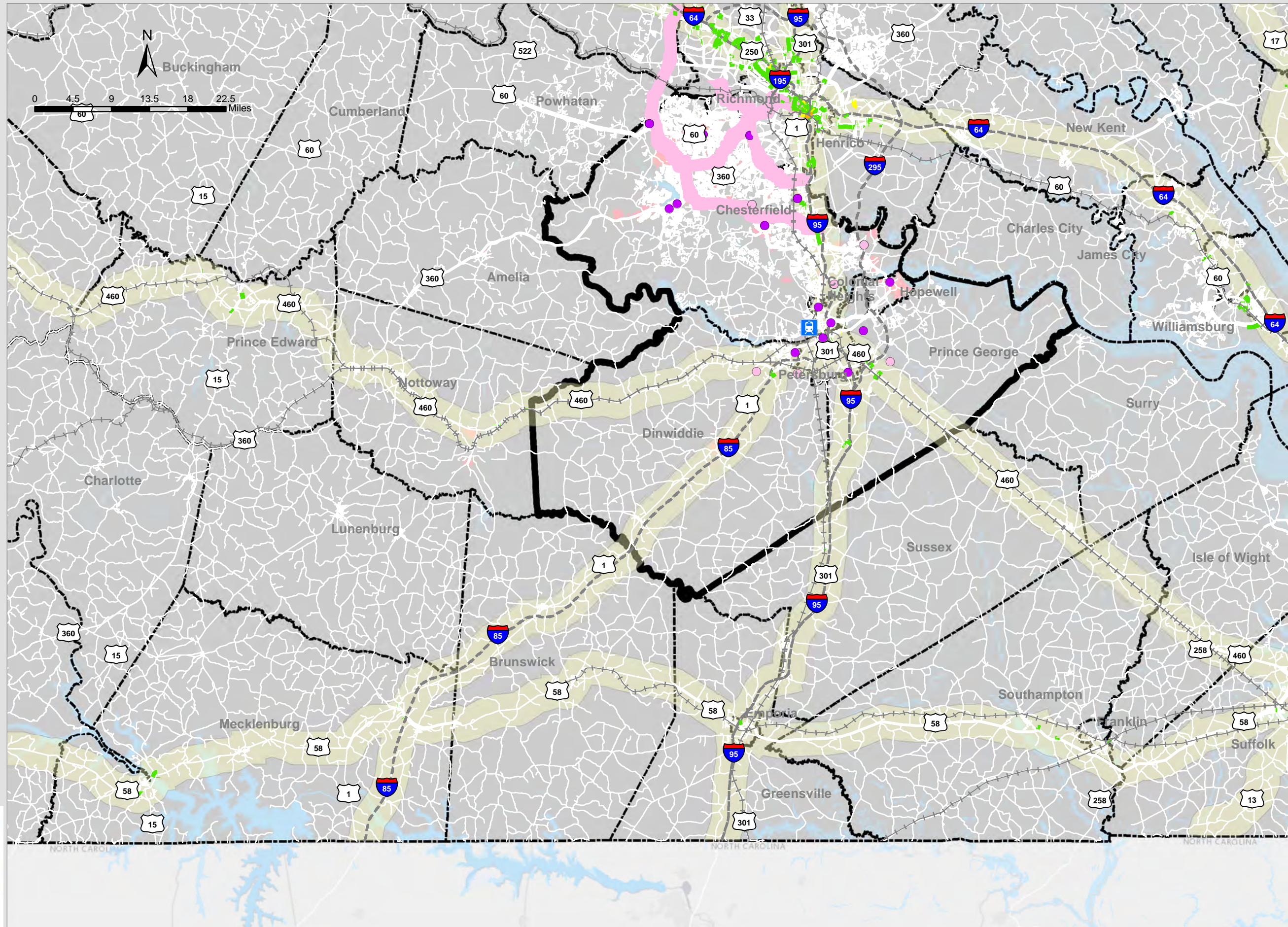- Buffer around Primary COSS Facilities
- Rail Network
- Urban Development Areas
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

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Lynchburg District
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Hampton Roads District
Bristol District
Salem District

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DRAFT

Buckingham
Cumberland
Powhatan
Richmond
Henrico
New Kent
Charles City
James City
Chesterfield
Amelia
Colonial Heights
Hopewell
Williamsburg
Prince Edward
Prince George
Petersburg
Surry
Nottoway
Dinwiddie
Charlotte
Lunenburg
Sussex
Isle of Wight
Brunswick
Mecklenburg
Southampton
Franklin
Emporia
Greensville
Suffolk
NORTH CAROLINA

August 15,2019

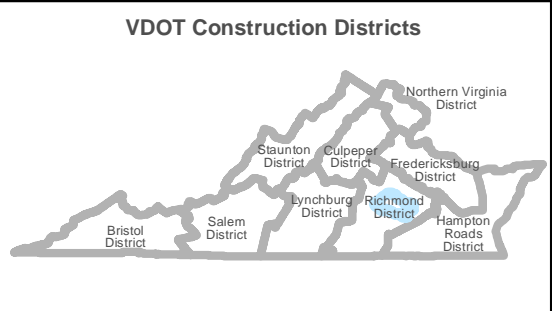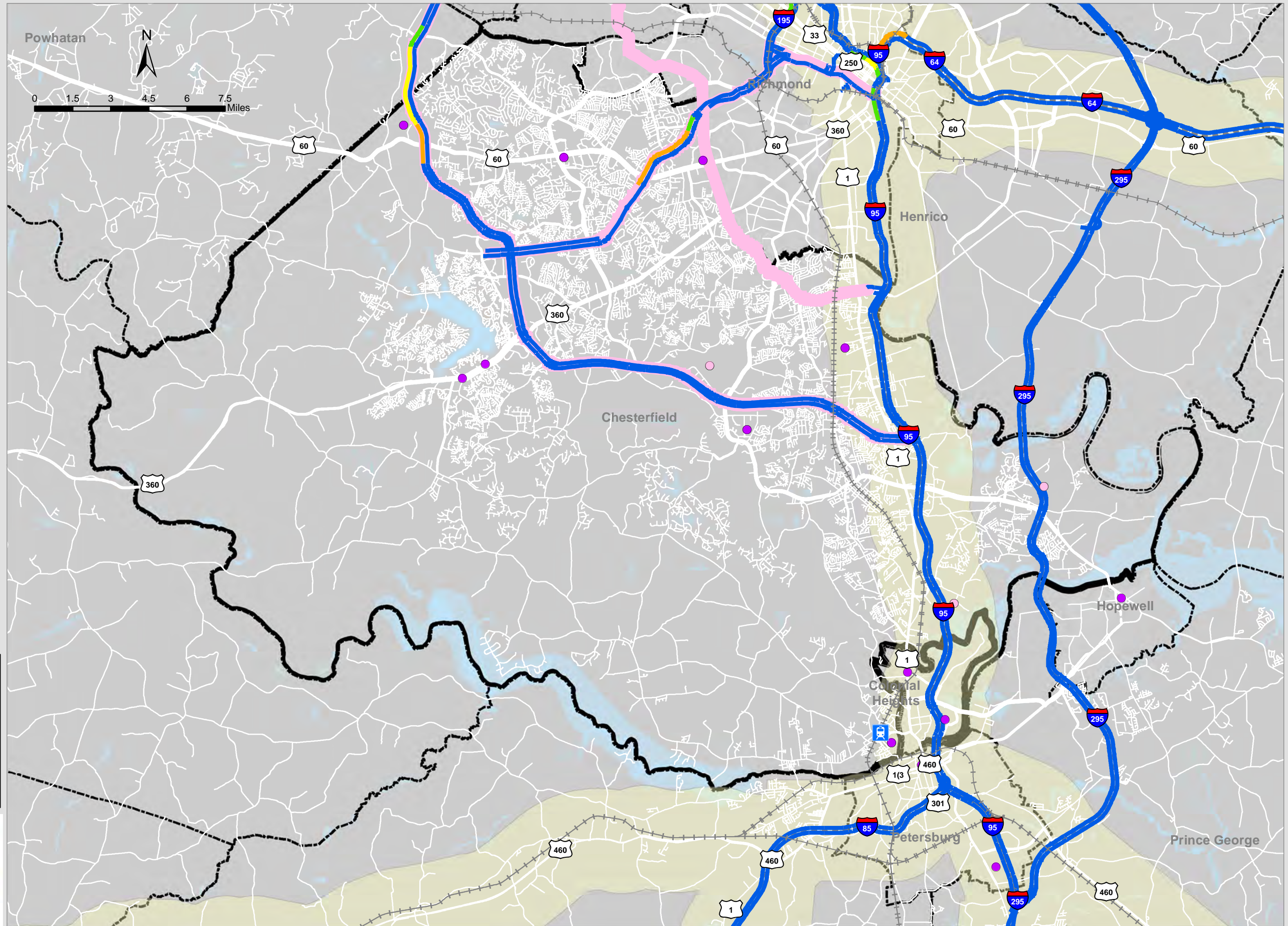**Minimum 80th/50th percentile travel time equal to 1.5 or higher - Weekday**

- 0 - 750
- 750 - 2,600
- 2,600 - 7,400
- 7,400 - 21,800
- \>21,800

Activity Centers

- Freight dependent
- Knowledge
- Local serving
- Ports
- Amtrak/Passenger Rail Stations
- Airports
- - - Interstates

Annual Average Daily Traffic (AADT)

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- +++ Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development Areas
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

Northern Virginia District
Staunton District
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Map labels: Powhatan, Richmond, Henrico, Chesterfield, Colonial Heights, Petersburg, Hopewell, Prince George

Unreliable Delay (UD) - Number of person-hours of delay during Unreliable Conditions: Crater and Southside Area

August 15, 2019
Minimum 80/50th percentile travel time equal to 1.5 or higher - Weekday

- 0 - 750
- 750 - 2,600
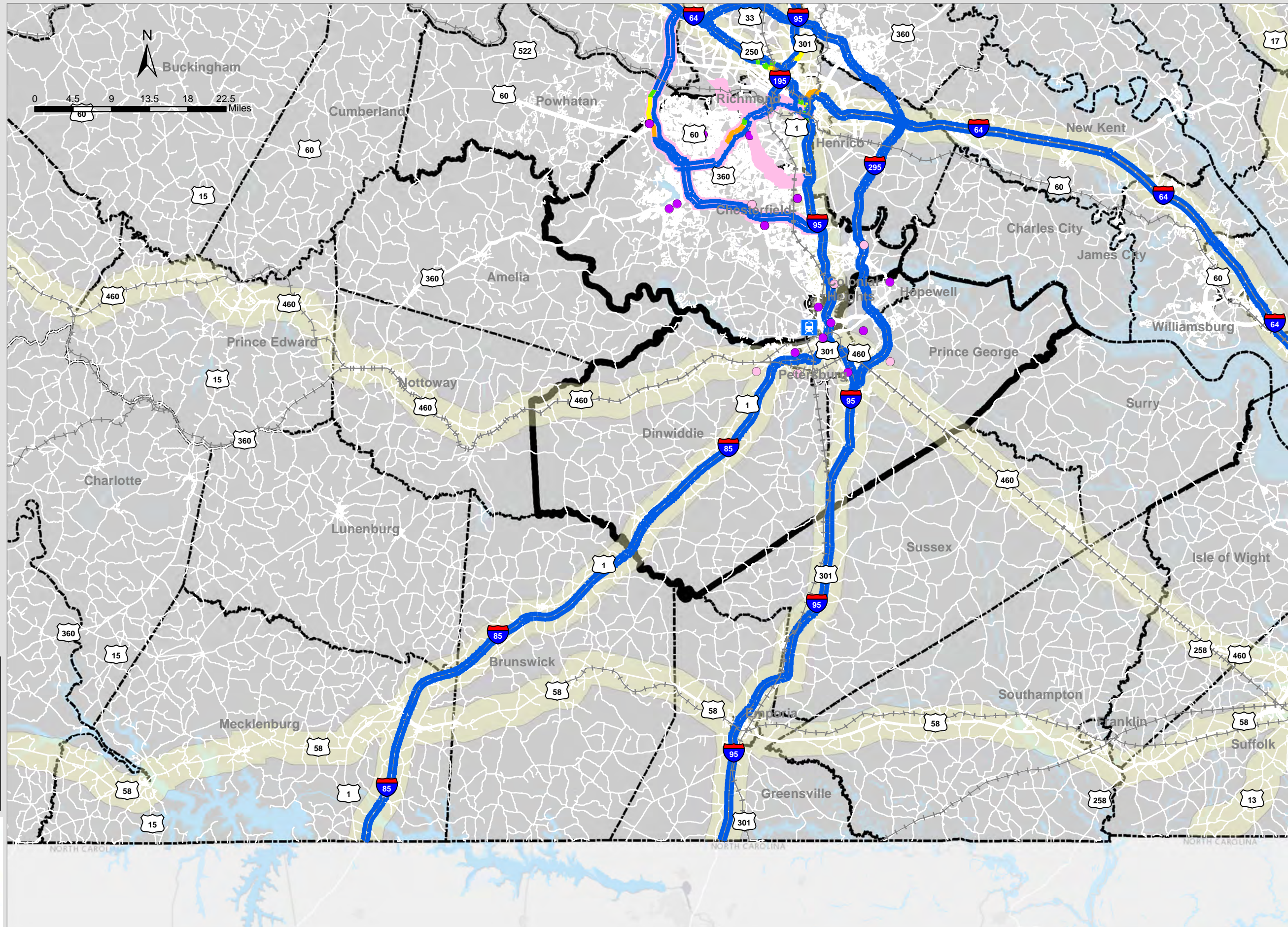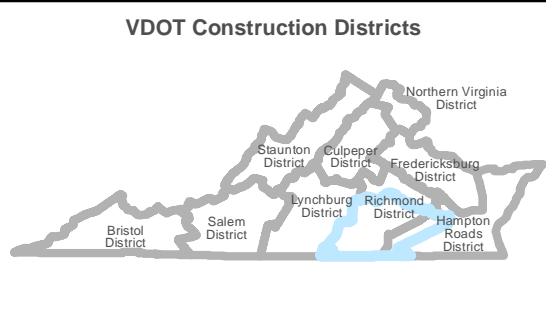- 2,600 - 7,400
- 7,400 - 21,800
- >21,800

Activity Centers
- Freight dependent
- Knowledge
- Local serving
- Ports
- Amtrak/Passenger Rail Stations
- Airports
- - - Interstates

Annual Average Daily Traffic (AADT)
- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development Areas
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VDOT Construction Districts

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VTRANS | VIRGINIA'S TRANSPORTATION PLAN

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Buckingham, Cumberland, Powhatan, Richmond, Henrico, New Kent, Charles City, James City, Williamsburg, Amelia, Chesterfield, Colonial Heights, Hopewell, Prince George, Surry, Isle of Wight, Prince Edward, Nottoway, Dinwiddie, Petersburg, Charlotte, Lunenburg, Brunswick, Mecklenburg, Emporia, Greensville, Southampton, Franklin, Suffolk, Sussex

August 15, 2019

Minimum 80th/50th percentile travel time equal to 1.5 or higher - Weekend

- 0 - 750
- 750 - 2,600
- 2,600 - 7,400
- 7,400 - 21,800
- >21,800

Activity Centers

- ○ Freight dependent
- ● Knowledge
- ● Local serving
- Ports
- Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates

Annual Average Daily Traffic (AADT)

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development Areas
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

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Hampton Roads District
Bristol District
Salem District

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VTrans | VIRGINIA'S TRANSPORTATION PLAN

Date: 8/13/2019

Powhatan

Richmond

Henrico

Chesterfield

Colonial Heights

Petersburg

Hopewell

Prince George

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Unreliable Delay (UD) - Number of person-hours of delay during Unreliable Conditions: Crater and Southside Area
August 15, 2019

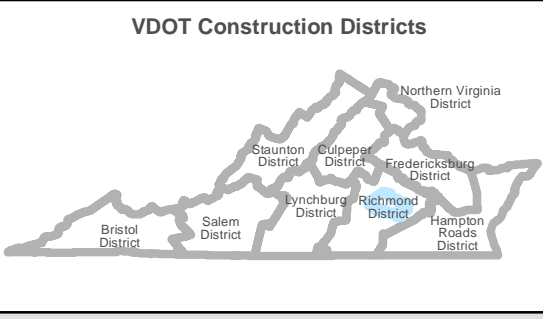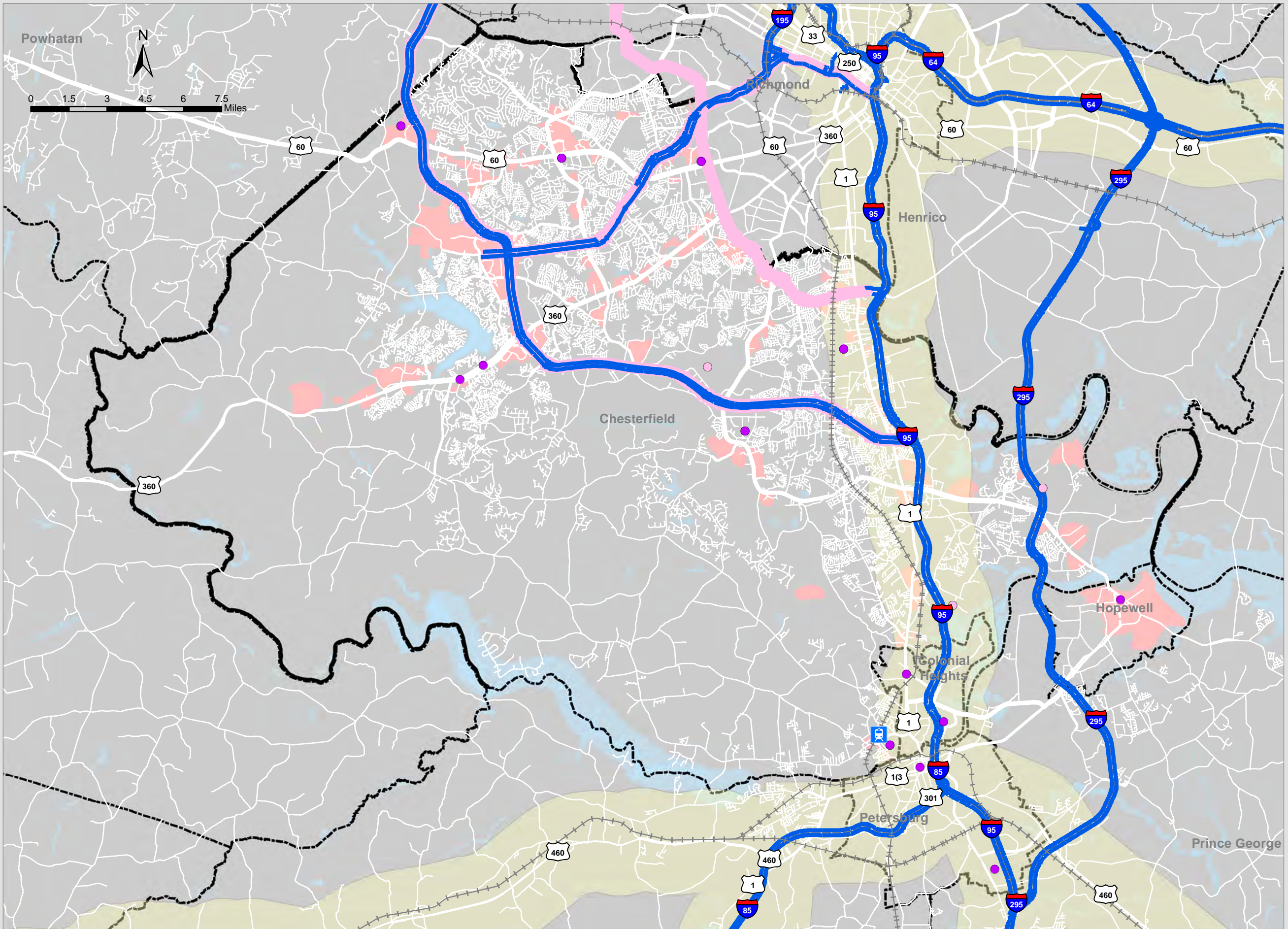**Minimum 80th/50th percentile travel time equal to 1.5 or higher - Weekend**
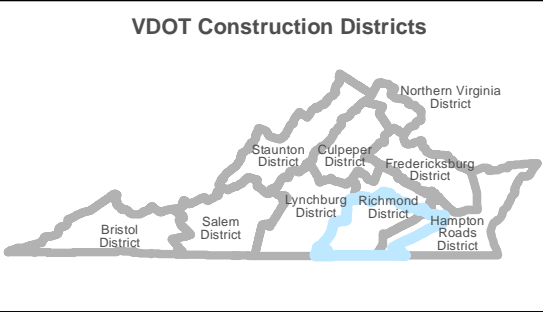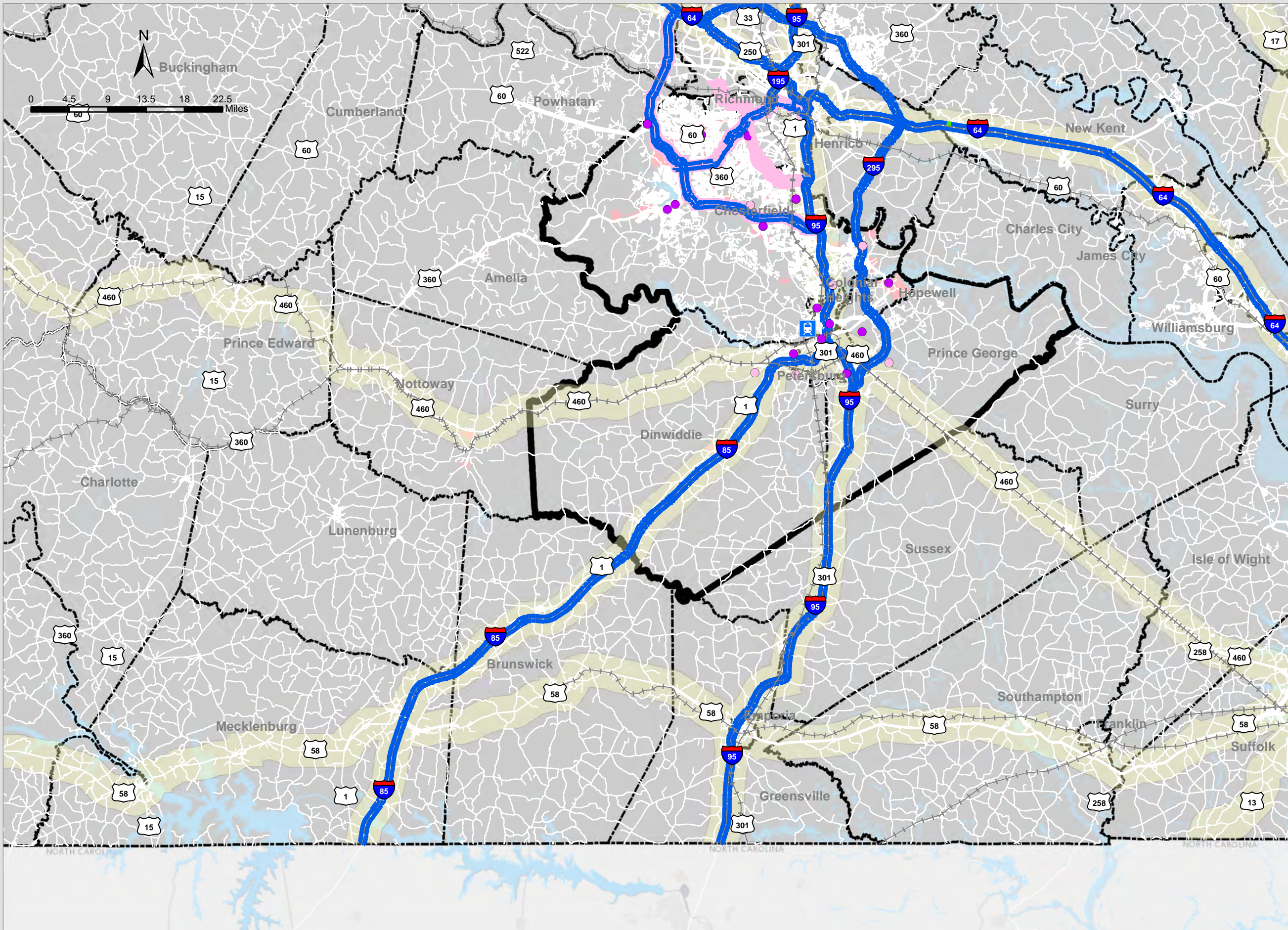
- ▬ 0 - 750
- ▬ 750 - 2,600
- ▬ 2,600 - 7,400
- ▬ 7,400 - 21,800
- ▬ >21,800

Activity Centers

- ○ Freight dependent
- ● Knowledge
- ● Local serving
- Ports
- Amtrak/Passenger Rail Stations
- ✈ Airports
- - - - Interstates

Annual Average Daily Traffic (AADT)

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
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VDOT Construction Districts

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Map
4 - N

Reliability Measure for Non-Limited-Access COSS and Regional Network: Crater and Southside Area North
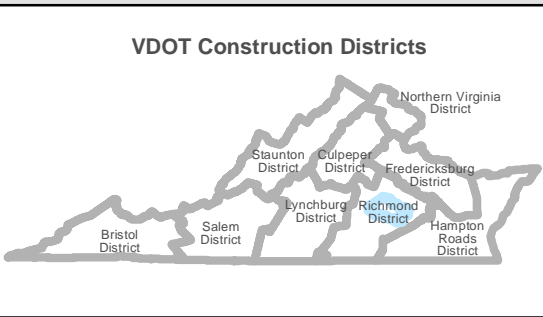
August 15, 2019

Minimum BTI value shown is 0.5

- ▬ 0.5 - 1.0
- ▬ 1.0 - 1.5
- ▬ 1.5 - 2.0
- ▬ 2.0 - 2.5
- ▬ Greater than 2.5

Activity Centers
- ○ Freight dependent
- ● Knowledge
- ● Local serving
- ⛴ Ports
- 🚉 Amtrak/Passenger Rail Stations
- ✈ Airports
- ┈ Interstates

Annual Average Daily Traffic (AADT)
- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Other Selected Limited Access Facilities
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Powhatan
Richmond
Henrico
Chesterfield
Hopewell
Colonial Heights
Petersburg
Prince George

Reliability Measure for Non-Limited-Access COSS and Regional Network: Crater and Southside Area

Map 4

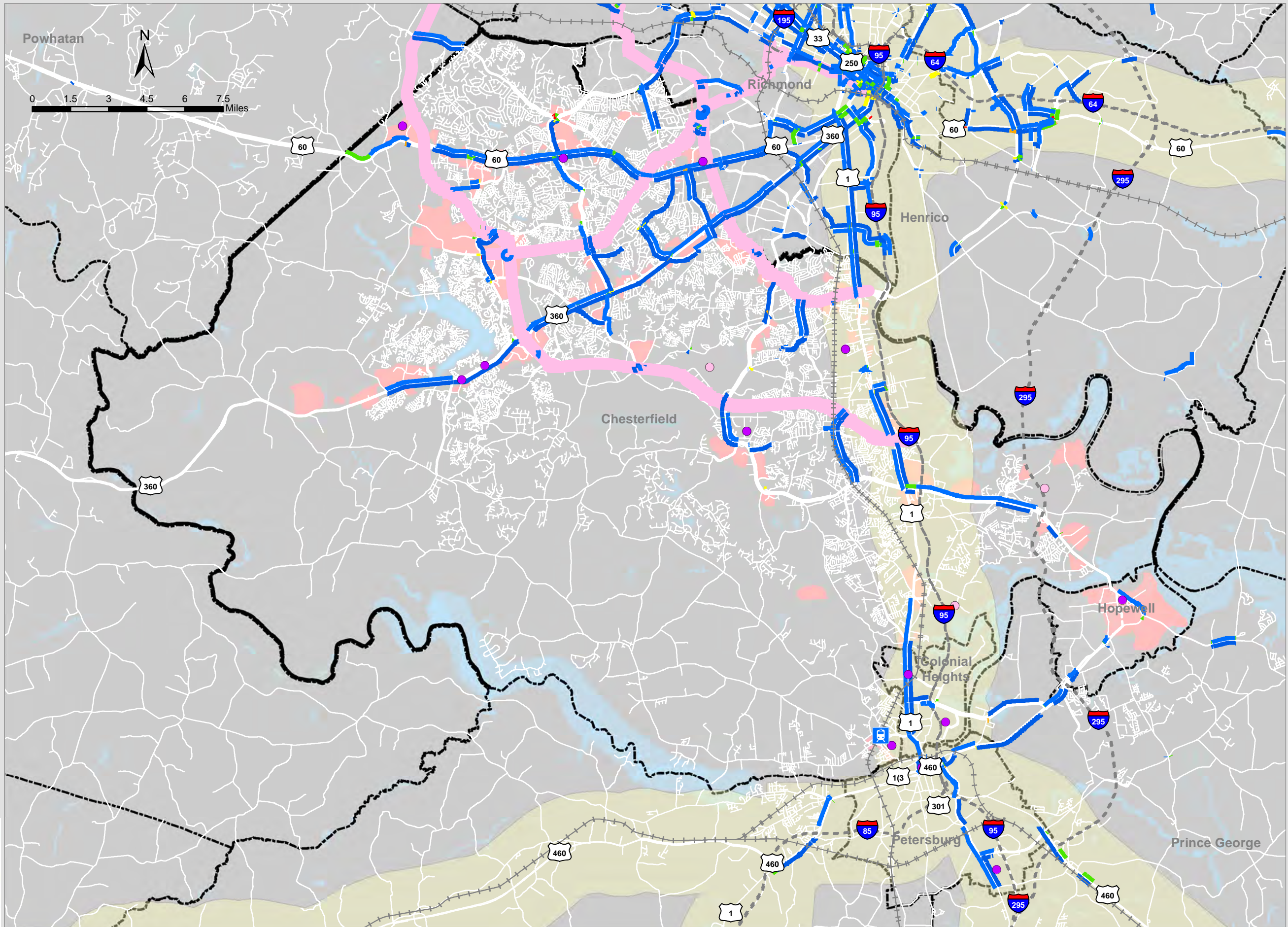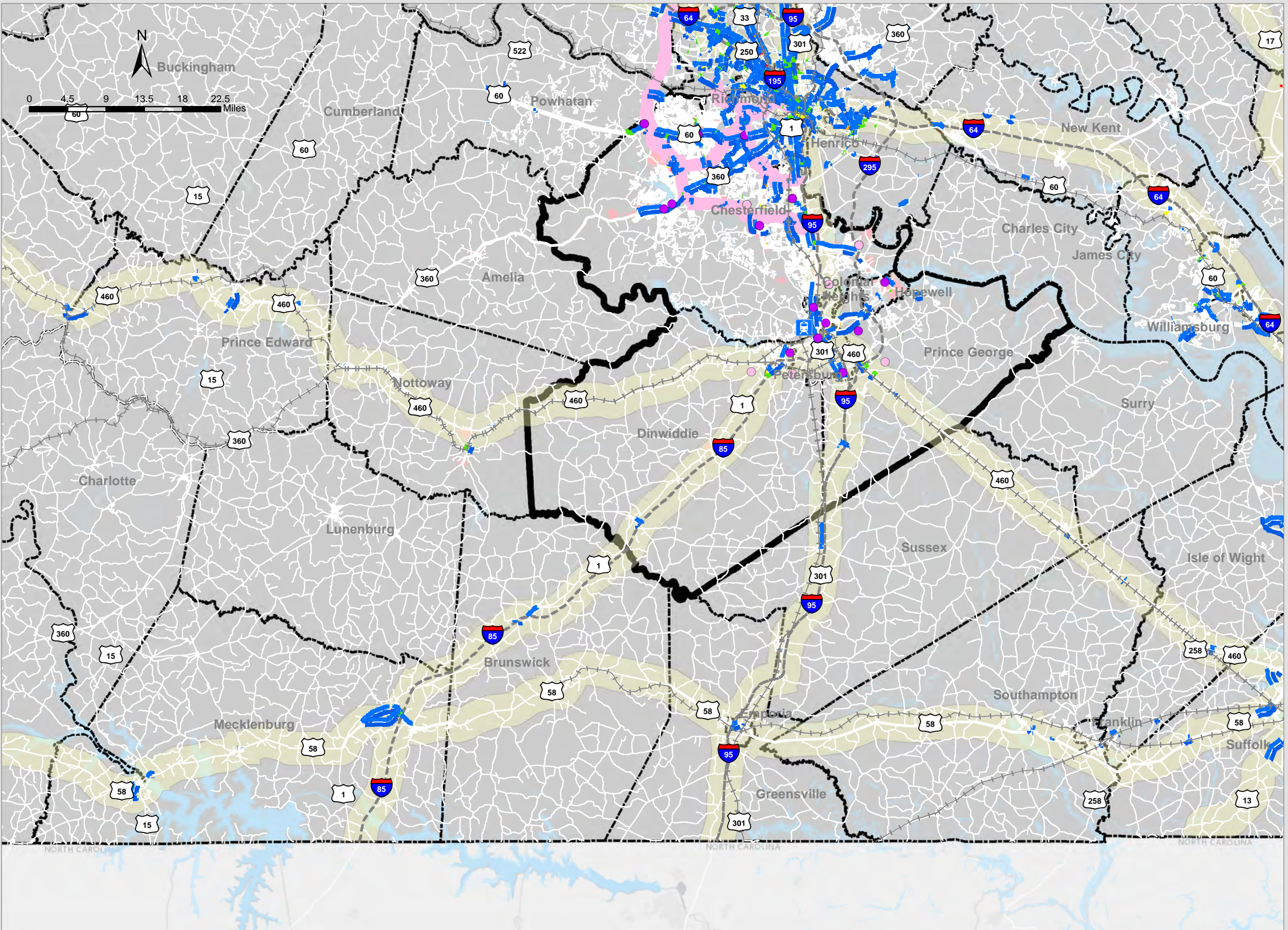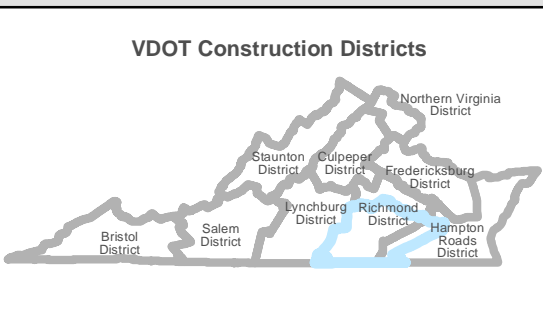August 15, 2019

Minimum BTI value shown is 0.5

- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- Greater than 2.5

Activity Centers

- ○ Freight dependent
- ● Knowledge
- ● Local serving
- ▢ Ports
- ▢ Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates

**Annual Average Daily Traffic (AADT)**

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- +++ Rail Network
- Other Selected Limited Access Facilities
- Buffer around Primary COSS Facilities
- Urban Development
- ▢ Regional Network
- ▢ Counties and Cities
- Water

VDOT Construction Districts

Northern Virginia District
Staunton District
Culpeper District
Fredericksburg District
Lynchburg District
Richmond District
Hampton Roads District
Bristol District
Salem District

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Date: 8/13/2019

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Amtrak On Time Rail Performance Averages 2018
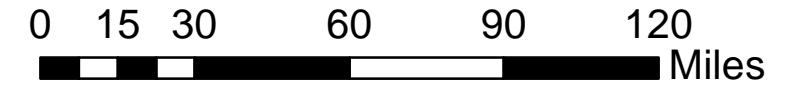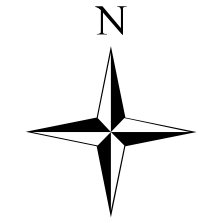
Amtrak Station (Average On-Time Performance)

- 0% - 39%
- 40% - 49%
- 50% - 59%
- 60% - 69%
- 70% - 79%
- 80% - 85%
- Amtrak Routes
- Regional Networks

N

0 15 30   60   90   120 Miles

Winchester Region

Northern Virginia Region

Harrisonburg Region
Staunton/Augusta/Waynesboro

BCV
ALX
MSS LOR
WDB
QAN

CLP

FBG

STA

CVS
Charlottesville Region

Fredericksburg Region

CLF

ASD
RVR
RVM

Richmond Region

Roanoke Region   Central
VA MPO Region
(Lynchburg)   LYH

RNK

PTB

New River Valley Region

Danville Region

Tri-Cities Region

WBG

NPN
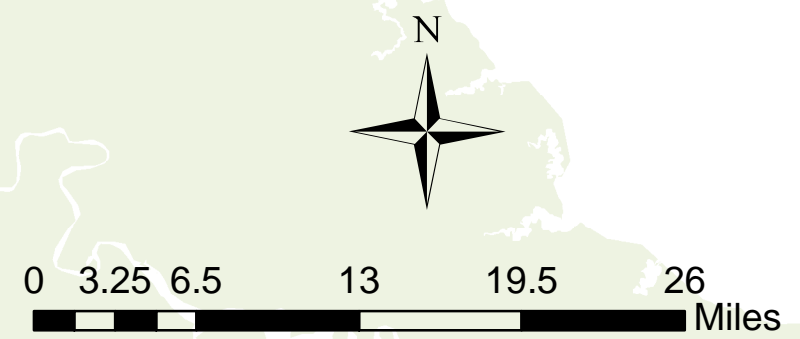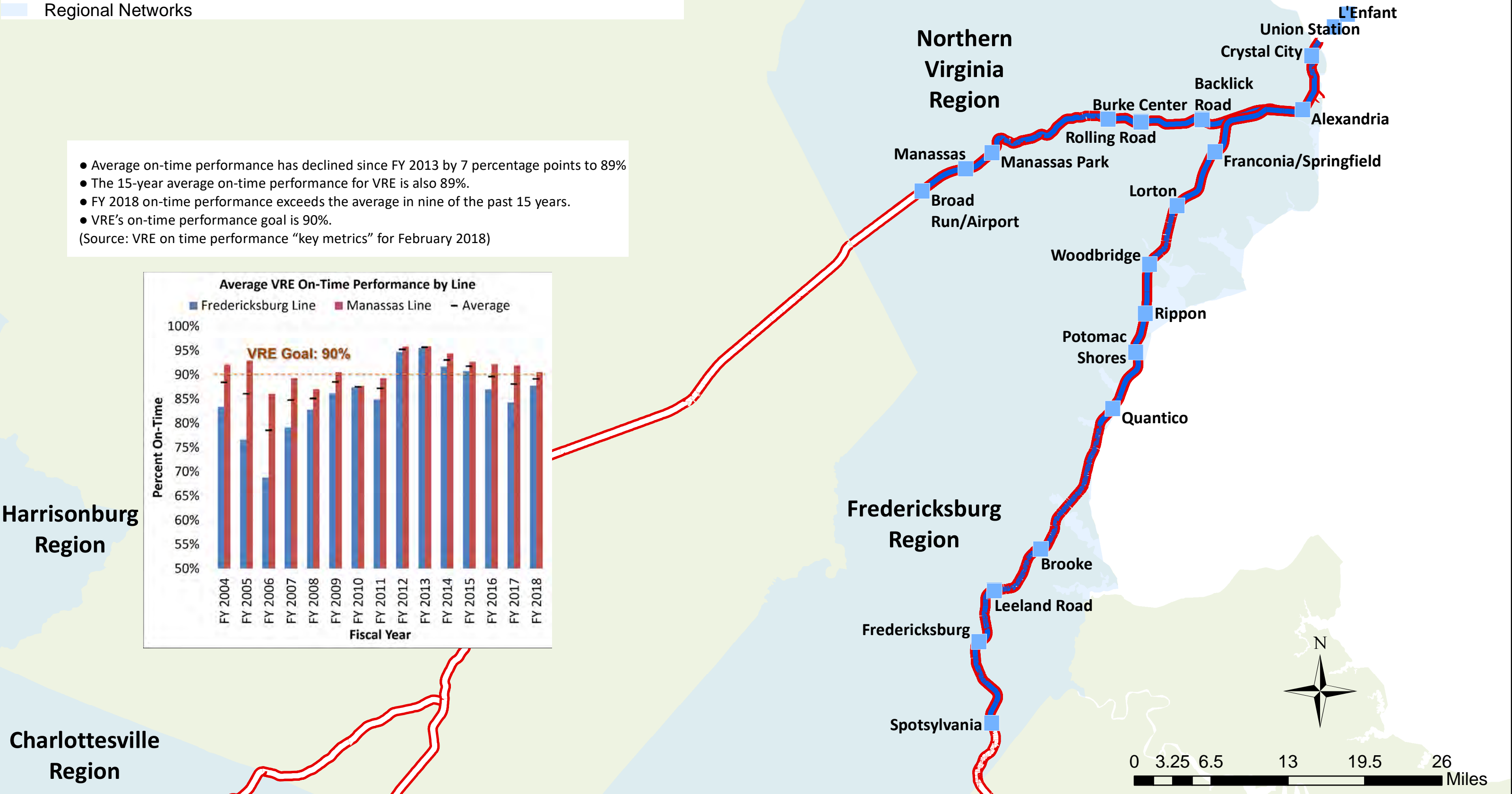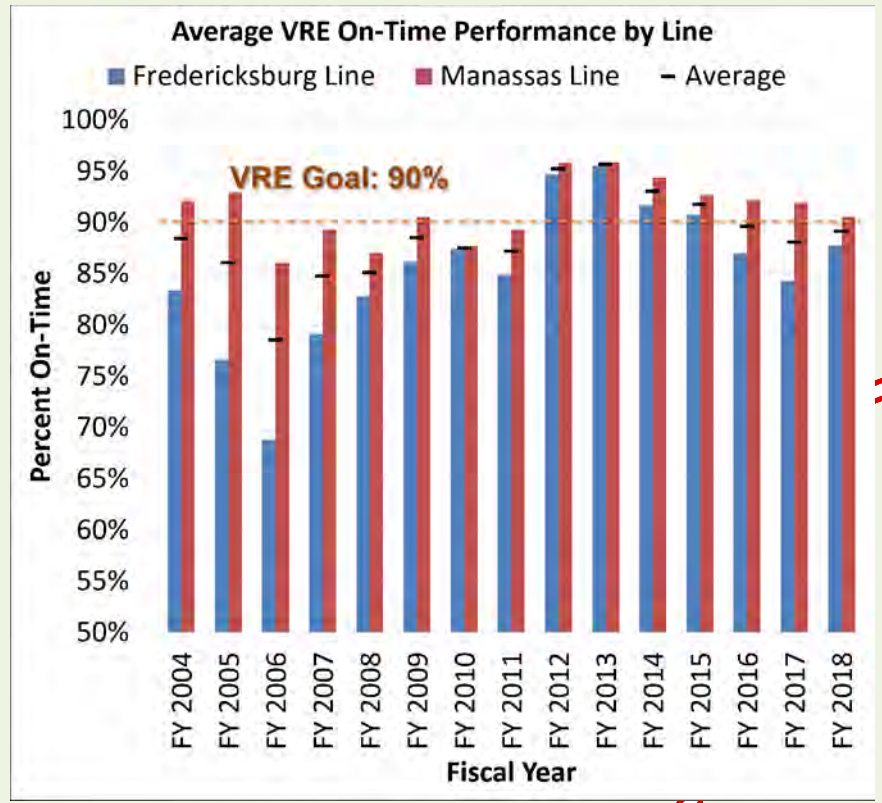
NFK

Kingsport Region

Bristol Region

DAN

Hampton Roads Region

Virginia Railway Express On-Time Performance

VRE Stations

VRE Routes

Amtrak Routes

Regional Networks

- Average on-time performance has declined since FY 2013 by 7 percentage points to 89%
- The 15-year average on-time performance for VRE is also 89%.
- FY 2018 on-time performance exceeds the average in nine of the past 15 years.
- VRE's on-time performance goal is 90%.

(Source: VRE on time performance "key metrics" for February 2018)

Northern Virginia Region

L'Enfant

Union Station

Crystal City

Backlick Road

Burke Center

Rolling Road

Manassas

Manassas Park

Alexandria

Franconia/Springfield

Lorton

Broad Run/Airport

Woodbridge

Rippon

Potomac Shores

Quantico

Fredericksburg Region

Brooke

Leeland Road

Fredericksburg

Spotsylvania

Harrisonburg Region

Charlottesville Region

Average VRE On-Time Performance by Line

■ Fredericksburg Line   ■ Manassas Line   — Average

VRE Goal: 90%

Percent On-Time: 100%, 95%, 90%, 85%, 80%, 75%, 70%, 65%, 60%, 55%, 50%

Fiscal Year: FY 2004, FY 2005, FY 2006, FY 2007, FY 2008, FY 2009, FY 2010, FY 2011, FY 2012, FY 2013, FY 2014, FY 2015, FY 2016, FY 2017, FY 2018

0 3.25 6.5 13 19.5 26 Miles

N

Map
6 - N

Accessibility to Activity Centers: Crater and Southside Area North
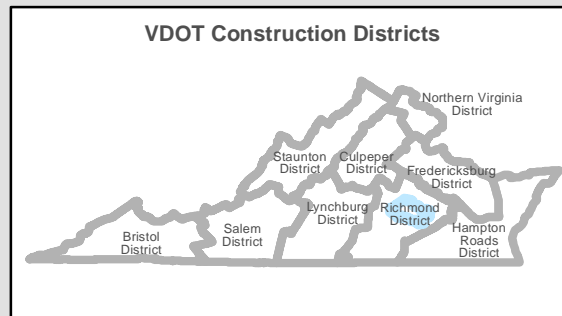August 15, 2019

Transit Access Deficit to Local-Serving and Knowledge-Based Activity Center for Workers

Deficit levels, (high, medium, low) are relative to each region

- ⬤ High
- ⬤ Medium
- ⬤ Low
- ⬤ Freight-Dependent Activity Center
- — Transit Routes
- Ports
- Amtrak/Passenger Rail Stations
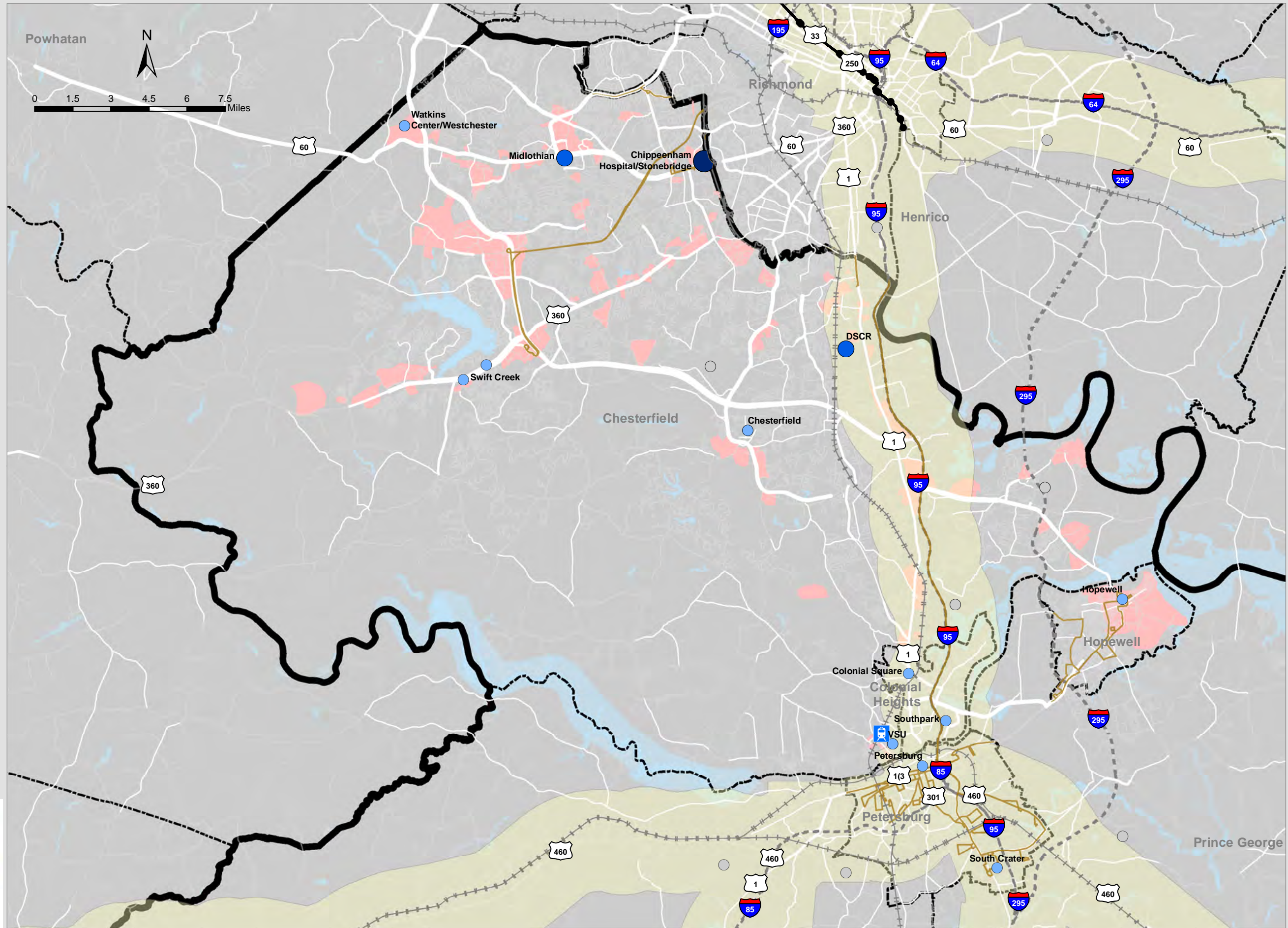- Airports
- --- Interstates
- — Local Roads

Annual Average Daily Traffic (AADT)

- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Buffer around Primary COSS Facilities
- Urban Development
- Regional Network
- Counties and Cities
- Water

VDOT Construction Districts

Northern Virginia District
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Culpeper District
Fredericksburg District
Lynchburg District
Richmond District
Hampton Roads District
Bristol District
Salem District

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Date: 8/14/2019

Powhatan

Richmond

Watkins Center/Westchester

Midlothian

Chippeenham Hospital/Stonebridge

Henrico

Swift Creek

Chesterfield

Chesterfield

DSCR

Hopewell

Hopewell

Colonial Square

Colonial Heights

Southpark

VSU

Petersburg

Petersburg

South Crater

Prince George

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DRAFT

Accessibility to Activity Centers: Regional Workshop - Crater and Southside Area
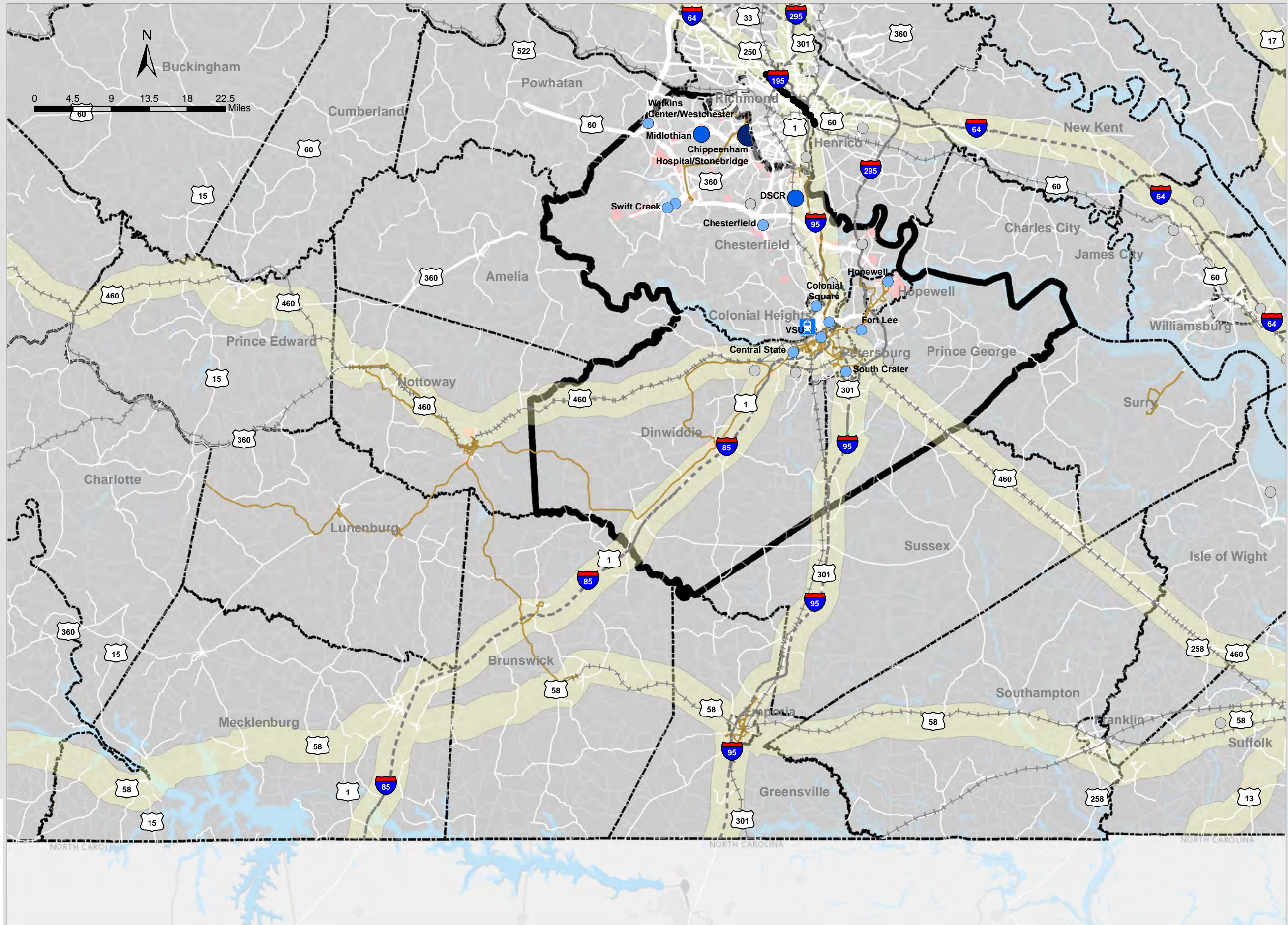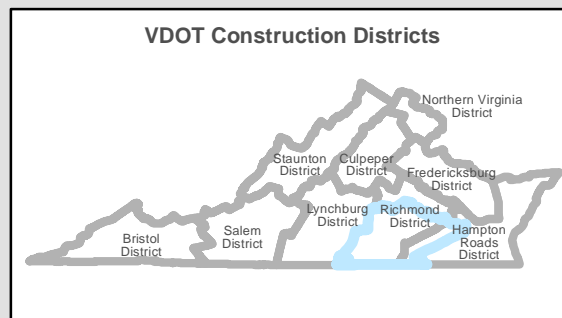
August 15, 2019

Map 6

Transit Access Deficit to Local-Serving and Knowledge-Based Activity Center for Workers

Deficit levels, (high, medium, low) are relative to each region

- ● High
- ● Medium
- ● Low
- ● Freight-Dependent Activity Center
- — Transit Routes
- Ports
- Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates
- — Local Roads

Annual Average Daily Traffic (AADT)
- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- +⊢ Rail Network
- Buffer around Primary COSS Facilities
- Urban Development
- Regional Network
- Counties and Cities
- Water

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Disadvantaged Population beyond ¼ mile Access to Transit Service: Crater and Southside Area North

August 15,2019

Disadvantaged block groups beyond 1/4-mile access to fixed-route transit service and local rail or BRT service, 80% Threshold

- Disadvantaged and Not Viable for fixed route service, local rail, or BRT
- Disadvantaged and Viable for fixed route service, local rail, or BRT
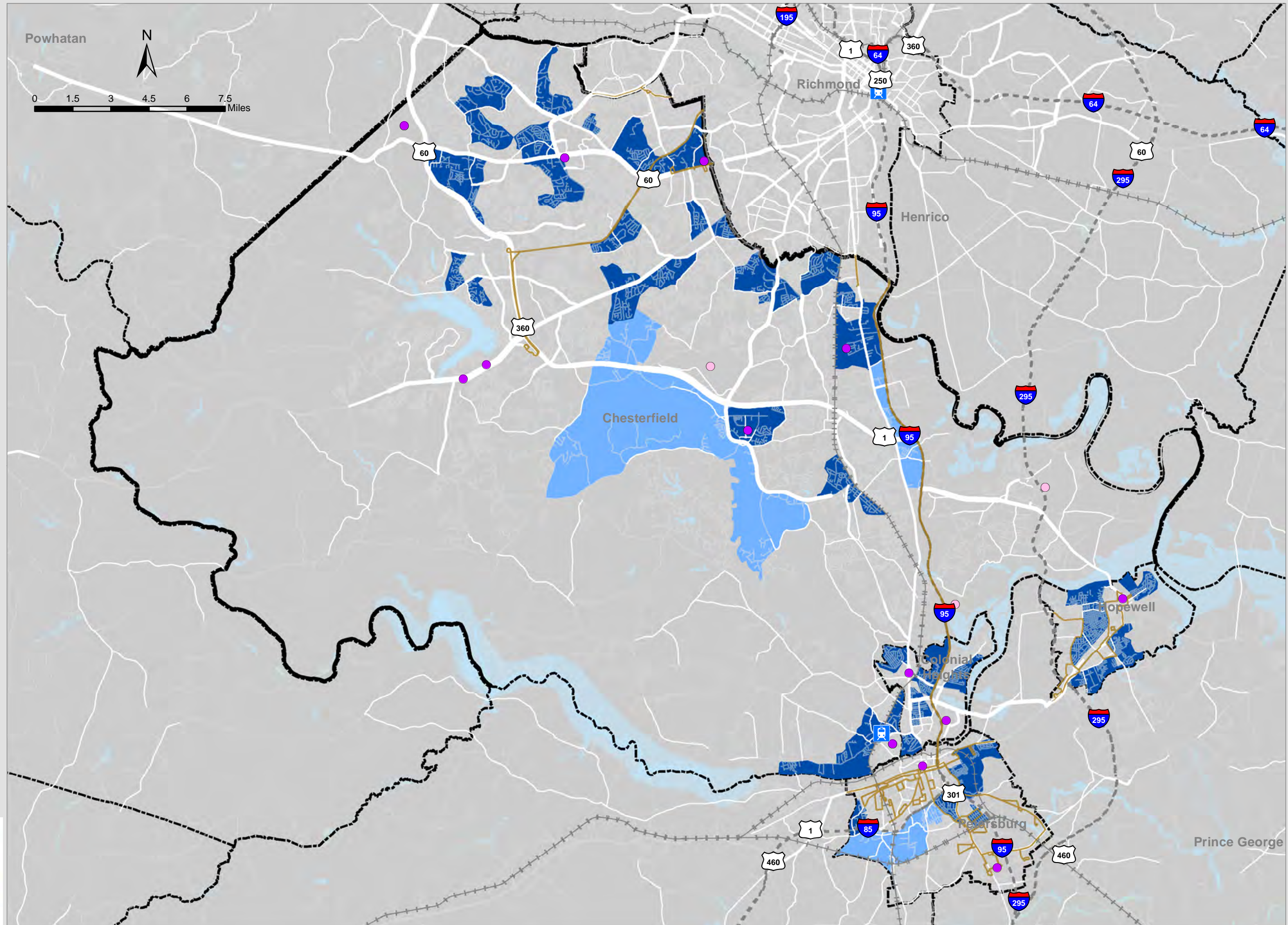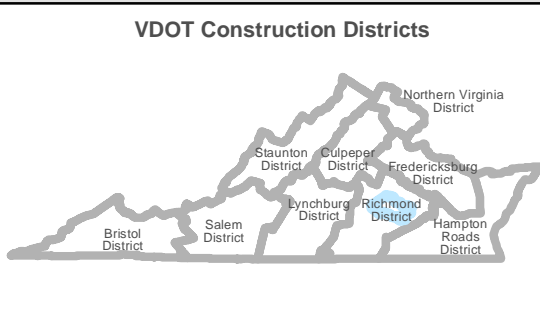- Transit Routes

Activity Centers
- Freight dependent
- Knowledge
- Local serving
- Ports
- Amtrak/Passenger Rail Stations
- Airports
- Interstates
- Local Roads

Annual Average Daily Traffic (AADT)
- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- Greater than 75,000
- Rail Network
- Regional Network
- Counties and Cities
- Water

Disadvantaged population access to transit accounts for existing transit service where the data is available.

VDOT Construction Districts

Northern Virginia District
Staunton District
Culpeper District
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Hampton Roads District
Bristol District
Salem District

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Date: 8/14/2019

Powhatan

Richmond

Henrico

Chesterfield

Colonial Heights

Hopewell

Petersburg

Prince George

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August 15, 2019

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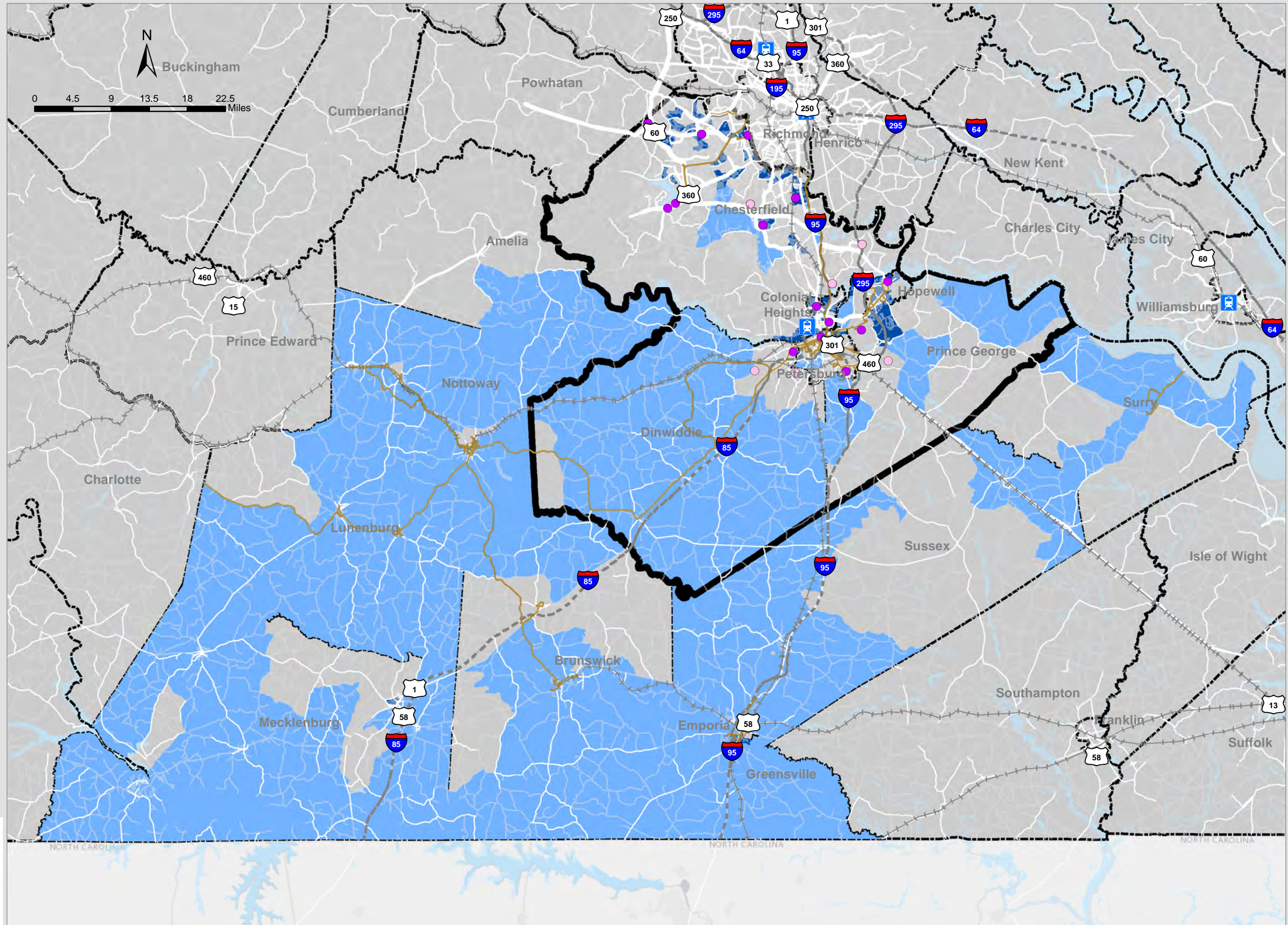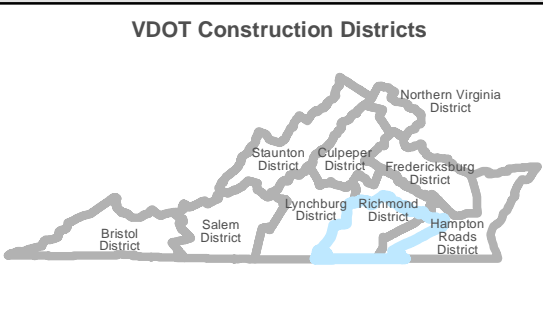- Transit Routes

Activity Centers
- ● Freight dependent
- ● Knowledge
- ● Local serving
- ⛴ Ports
- 🚆 Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates
- — Local Roads

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- 0
- 1 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
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- ╫ Rail Network
- Regional Network
- Counties and Cities
- Water

Disadvantaged population access to transit accounts for existing transit service where the data is available.

VDOT Construction Districts

Northern Virginia District

Staunton District | Culpeper District | Fredericksburg District

Lynchburg District | Richmond District

Bristol District | Salem District | Hampton Roads District

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August 15,2019

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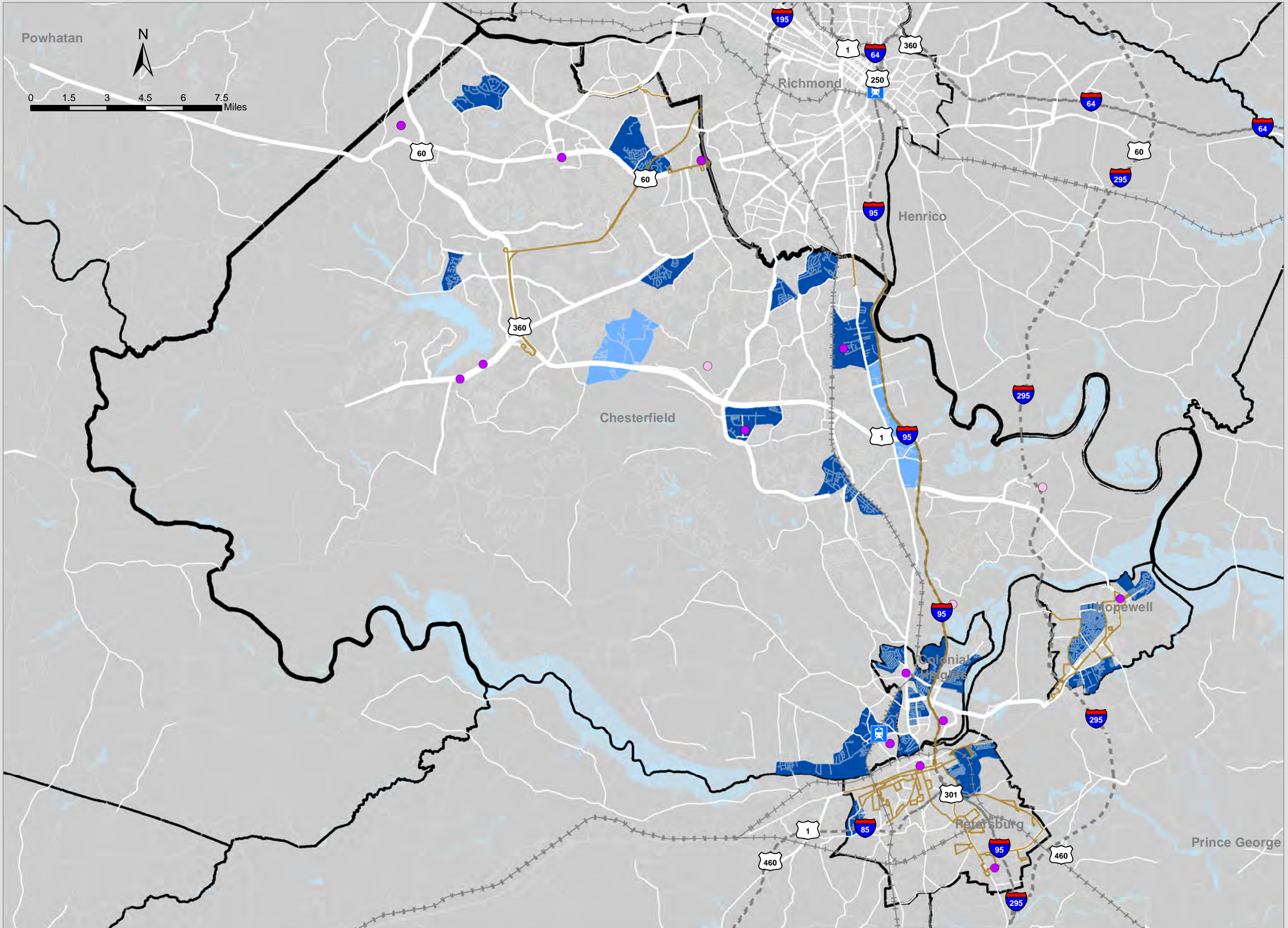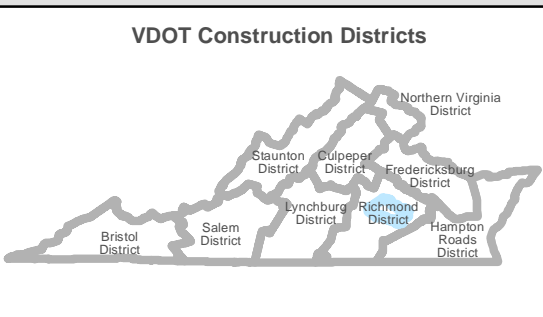- Transit Routes

Activity Centers

- ○ Freight dependent
- ● Knowledge
- ● Local serving
- ⌂ Ports
- ☒ Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates
- —— Local Roads

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Powhatan

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Petersburg

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Disadvantaged Population beyond ¼ mile Access to Transit Service: Regional Workshop - Crater and Southside Area

August 15, 2019

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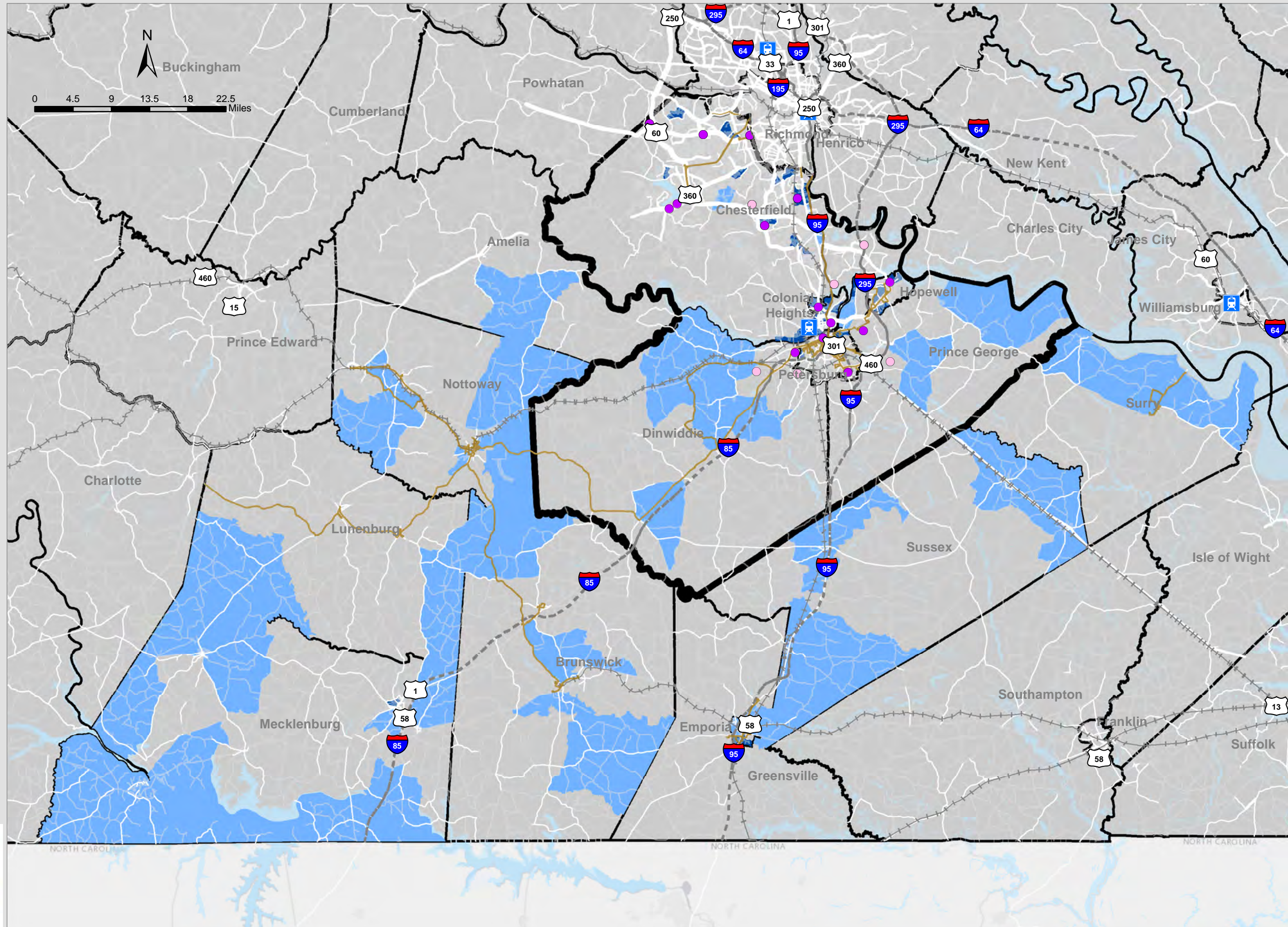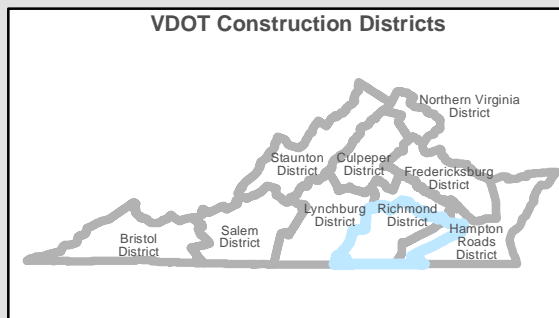- Transit Routes

Activity Centers
- ○ Freight dependent
- ○ Knowledge
- ● Local serving
- ⌷ Ports
- 🚆 Amtrak/Passenger Rail Stations
- ✈ Airports
- --- Interstates
- — Local Roads

Annual Average Daily Traffic (AADT)
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- ⬚ Counties and Cities
- ▨ Water

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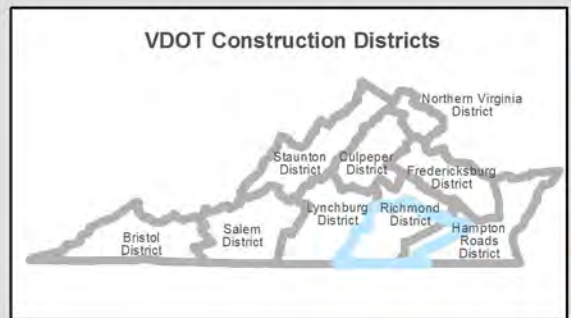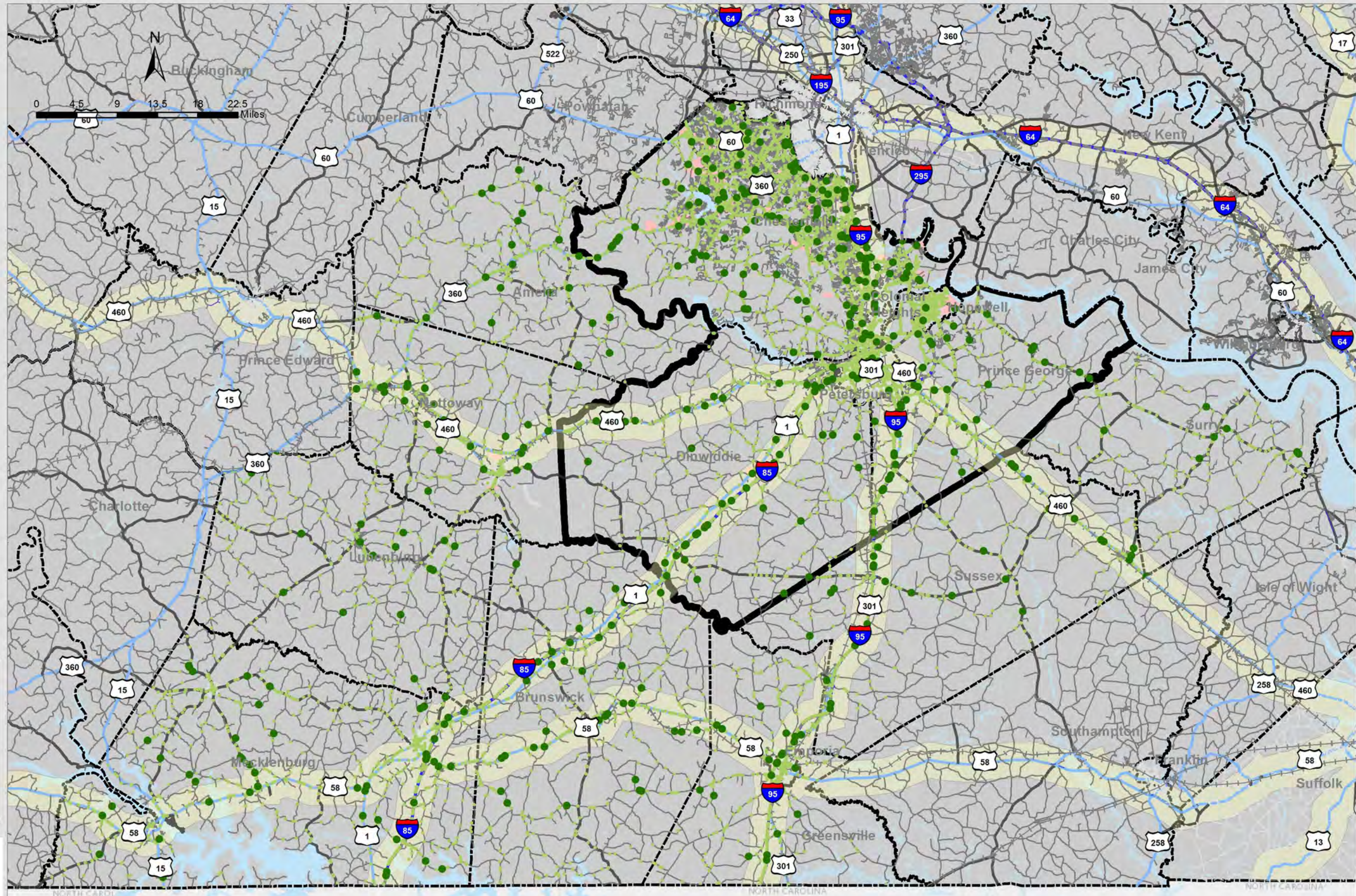**VTRANS** | VIRGINIA'S TRANSPORTATION PLAN

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DRAFT

Buckingham
Powhatan
Cumberland
Richmond
Henrico
New Kent
Charles City
James City
Amelia
Chesterfield
Prince Edward
Colonial Heights
Hopewell
Williamsburg
Prince George
Petersburg
Nottoway
Surry
Charlotte
Dinwiddie
Sussex
Isle of Wight
Lunenburg
Southampton
Brunswick
Franklin
Mecklenburg
Emporia
Suffolk
Greensville

NORTH CAROLINA

Crash Severity

- Fatal Crash
- Injury Crash

Roadway Functional Classes

- Interstate
- U.S. Route
- State Route
- Frontage Road
- Secondary Route
- Urban Road

- Ports
- Amtrak/Passenger Rail Stations
- Airports
- Rail Network
- Buffer around Primary COSS Facilities
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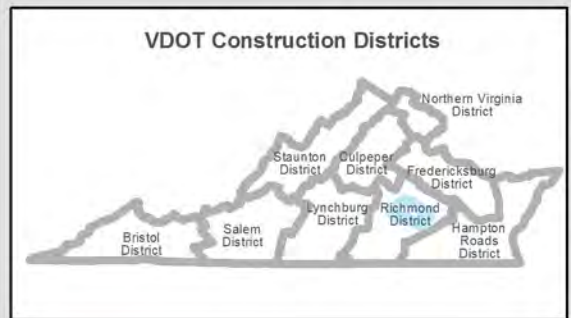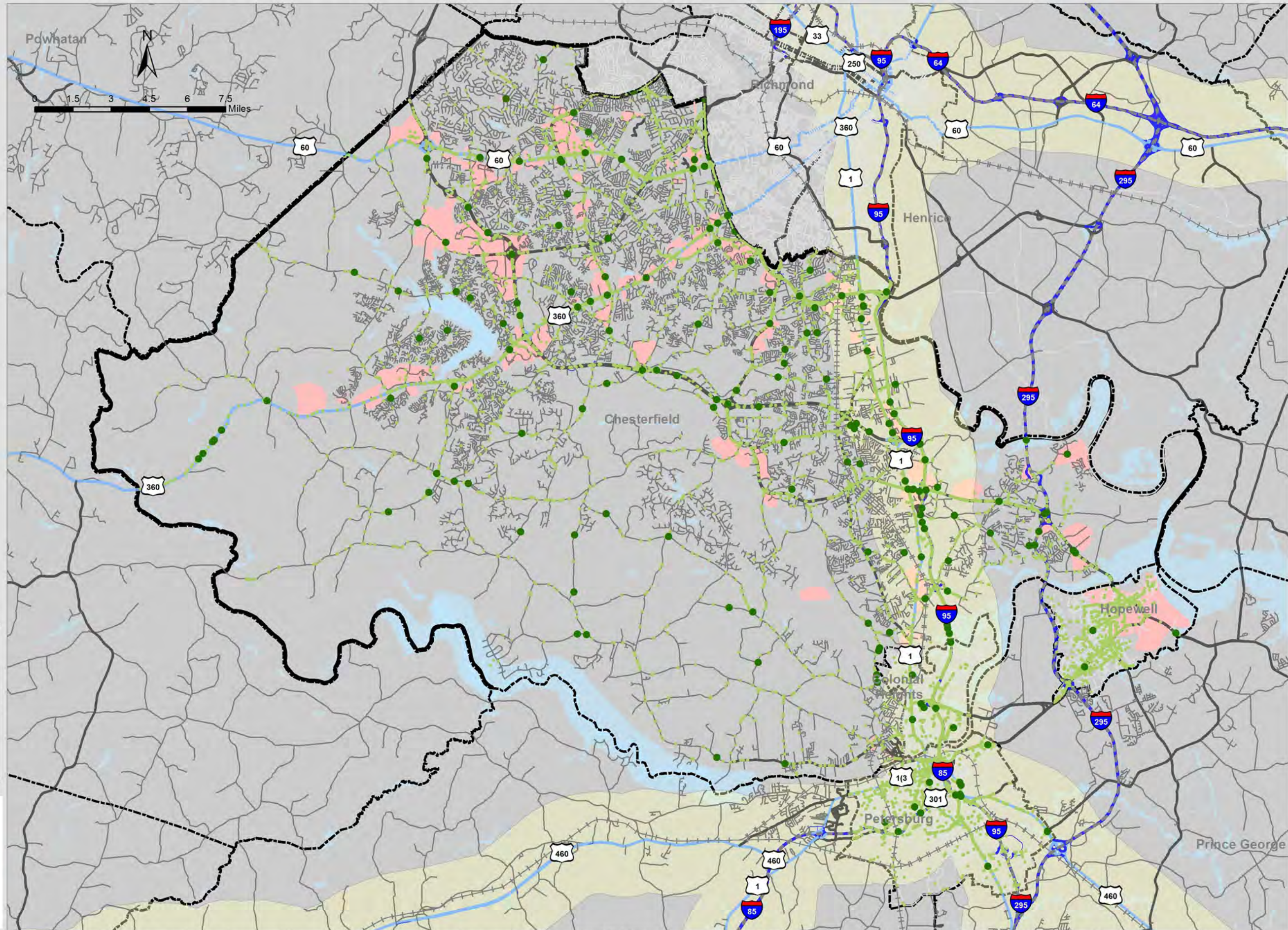
DRAFT

Map
8 - N

Vehicular Crashes January 2013 - April 2019: Crater and Southside Area North

August 15,2019

Crash Severity
- ● Fatal Crash
- · Injury Crash

Roadway Functional Classes
- Interstate
- U.S. Route
- State Route
- Frontage Road
- Secondary Route
- Urban Road
- Ports
- Amtrak/Passenger Rail Stations
- Airports
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