# INTERSTATE 95 HOV/HOT LANES PROJECT

**Commonwealth of Virginia**

VIRGINIA MEGAPROJECTS

**Interchange Justification Report**

## Volume 2 - Report Figures

## November 2011

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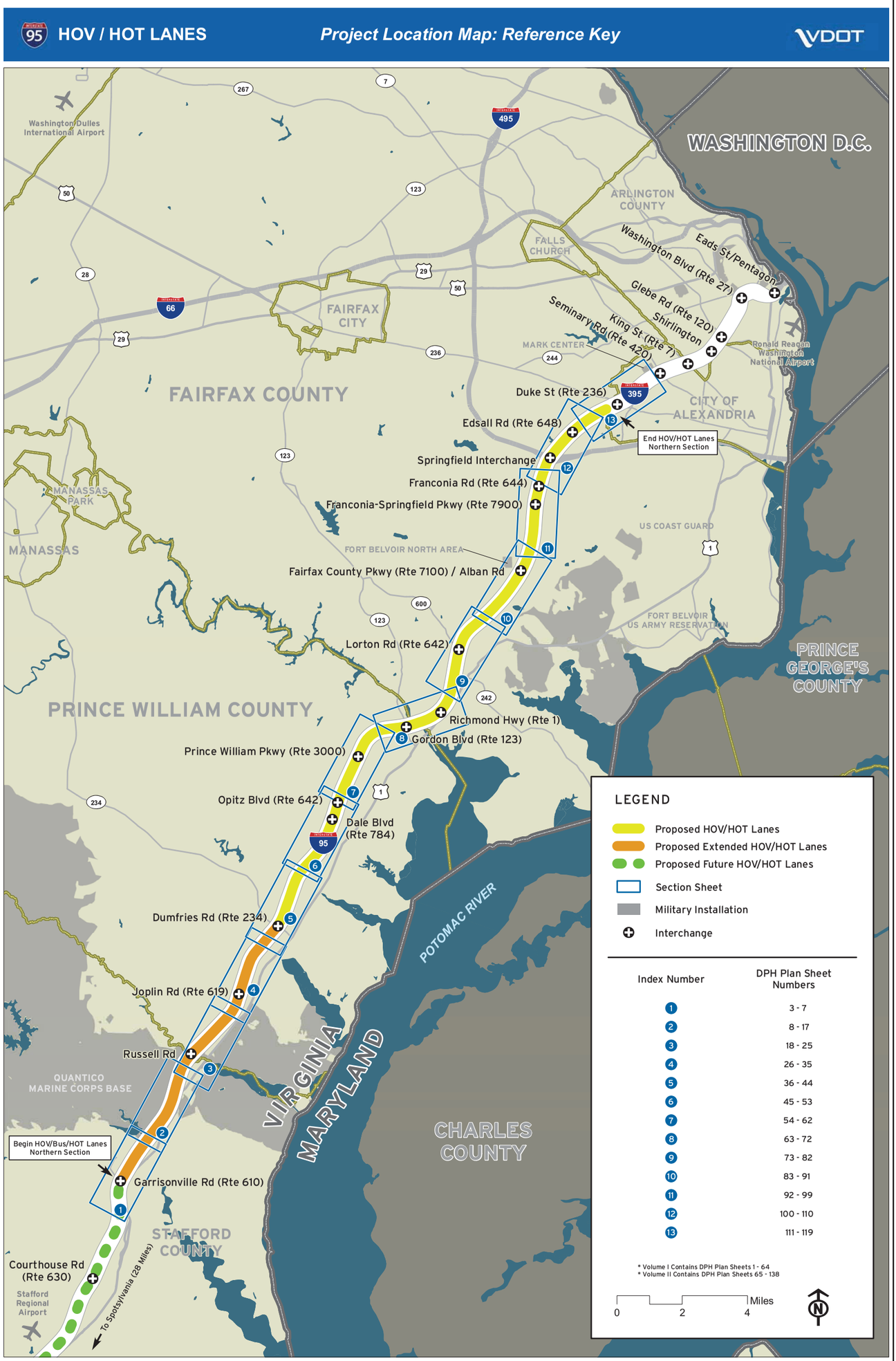


I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT

I-95 HOV/HOT Lane Project Configuration

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VIRGINIA MEGAPROJECTS

Figure: ES-1a | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

# I-95 HOV / HOT LANES

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***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***I-95 HOV/HOT Lane Project Configuration***

**Figure:** ES-1b | **Scale:** 1" - 500' | **Date:** November 21, 2011 | ***FINAL***

# HOV / HOT LANES

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| | | | |
|---|---|---|---|
| VDOT Virginia Department of Transportation<br>VIRGINIA MEGAPROJECTS | ***I-95 HOT/HOV LANES INTERCHANGE JUSTIFICATION REPORT*** | | |
| | ***I-95 HOV/HOT Lane Project Configuration*** | | |
| **Figure:** ES-1c | **Scale: 1" - 500'** | **Date: November 21, 2011** | ***FINAL*** |

# 95 HOV / HOT LANES

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| | | | |
|---|---|---|---|
| VDOT Virginia Department of Transportation<br>VIRGINIA MEGAPROJECTS | ***I-95 HOT/HOV LANES INTERCHANGE JUSTIFICATION REPORT*** | | |
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# 95 HOV / HOT LANES

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**I-95 HOT/HOV LANES INTERCHANGE JUSTIFICATION REPORT**

***I-95 HOV/HOT Lane Project Configuration***

**Figure:** ES-1e | **Scale:** 1" - 500' | **Date:** November 21, 2011 | ***FINAL***

# 95 HOV /HOT LANES

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***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***I-95 HOV/HOT Lane Project Configuration***

| **Figure:** ES-1f | **Scale: 1" - 500'** | **Date: November 21, 2011** | ***FINAL*** |
|---|---|---|---|

# I-95 HOV /HOT LANES

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| | | | |
|---|---|---|---|
| VDOT Virginia Department of Transportation<br>VIRGINIA MEGAPROJECTS | | | ***I-95 HOT/HOV LANES INTERCHANGE JUSTIFICATION REPORT***<br>***I-95 HOV/HOT Lane Project Configuration*** |
| **Figure:** ES-1g | **Scale:** 1" - 500' | **Date:** November 21, 2011 | ***FINAL*** |

# I-95 HOV /HOT LANES

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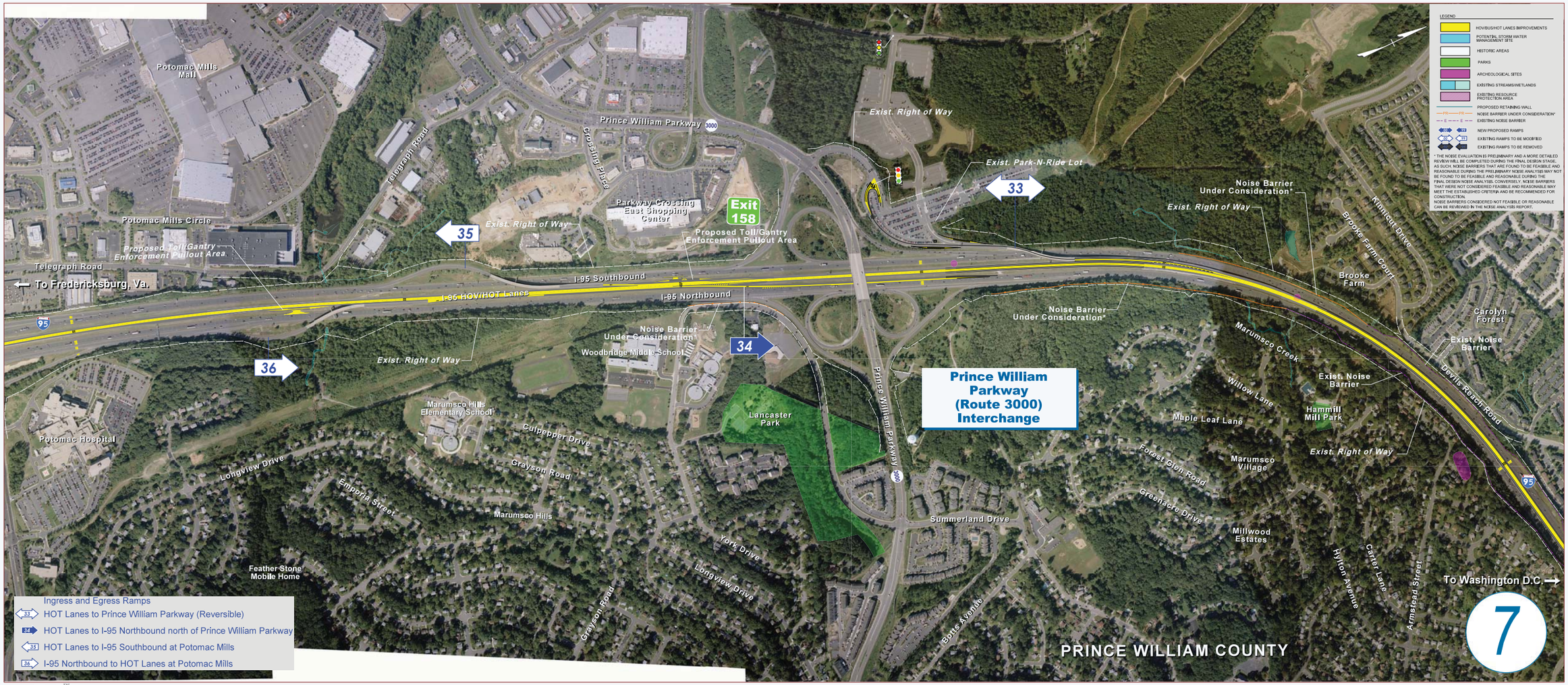


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VIRGINIA MEGAPROJECTS

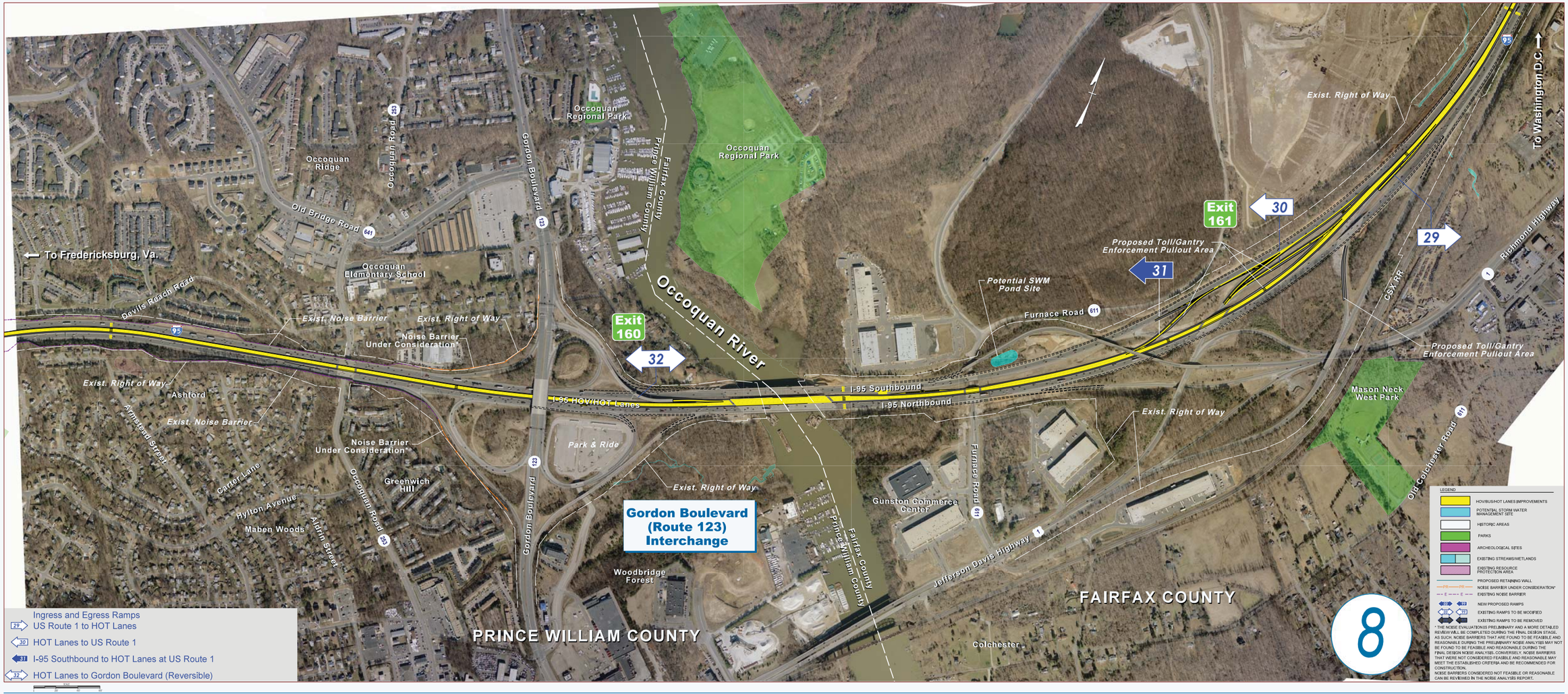
**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

*I-95 HOV/HOT Lane Project Configuration*

**Figure:** ES-1h | **Scale:** 1" - 500' | **Date:** November 21, 2011 | ***FINAL***

# 95 HOV /HOT LANES

VDOT




September 2011

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VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***I-95 HOV/HOT Lane Project Configuration***

**Figure:** ES-1i | **Scale:** 1" - 500' | **Date:** November 21, 2011 | ***FINAL***

# I-95 HOV /HOT LANES

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***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***I-95 HOV/HOT Lane Project Configuration***

**Figure:** ES-1j | **Scale:** 1" - 500' | **Date:** November 21, 2011 | ***FINAL***

# 95 HOV /HOT LANES

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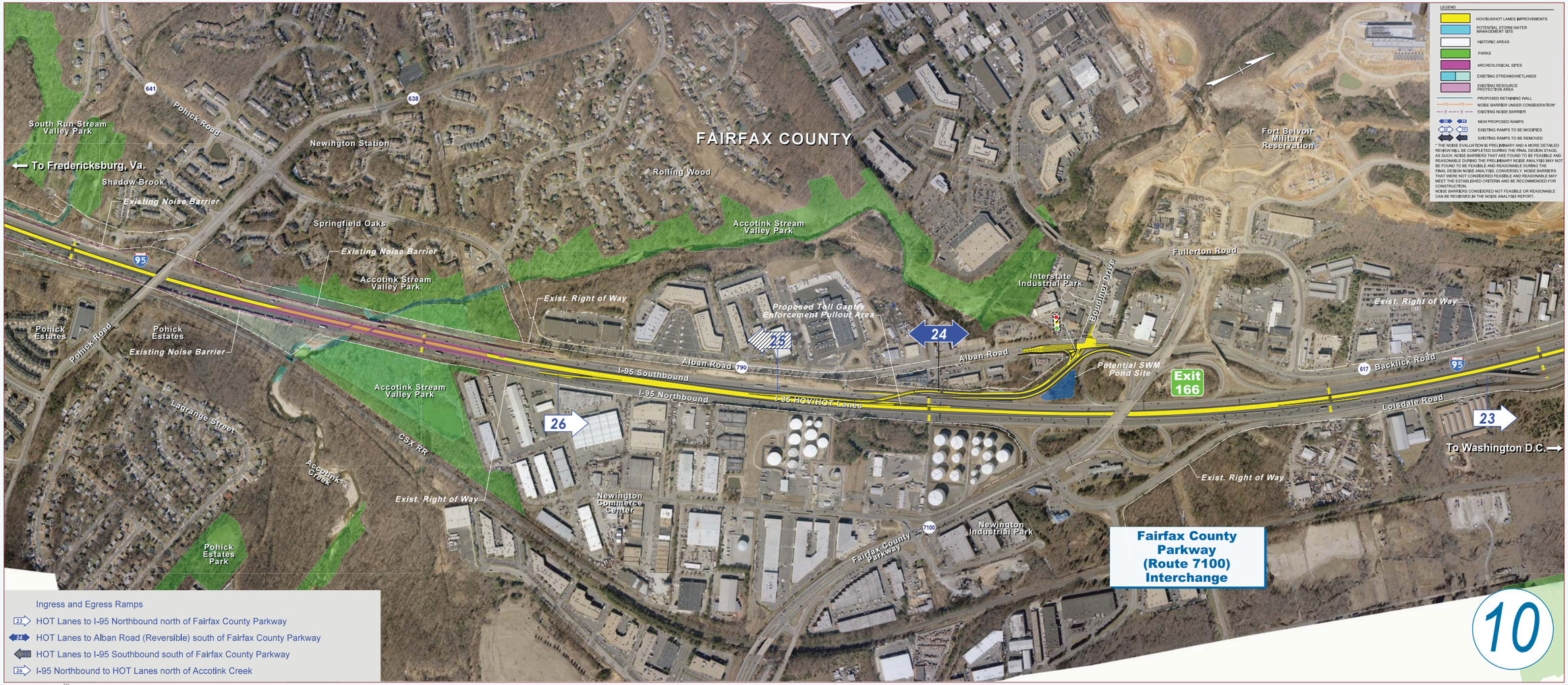


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VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***I-95 HOV/HOT Lane Project Configuration***

**Figure:** ES-1k | **Scale:** 1" - 500' | **Date:** November 21, 2011 | ***FINAL***

# I-95 HOV /HOT LANES

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Ingress and Egress Ramps

16 Franconia Road Eastbound to HOT Lanes
17 HOT Lanes to Franconia Road Westbound
18 HOT Lanes to Franconia-Springfield Parkway (Reversible) South
19 HOT Lanes to Franconia-Springfield Parkway (Reversible) North
20 I-95 Northbound to HOT Lanes south of Franconia Road
21 HOT Lanes to I-95 Southbound south of Franconia Road
22 I-95 Southbound to HOT Lanes south of Franconia-Springfield Parkway

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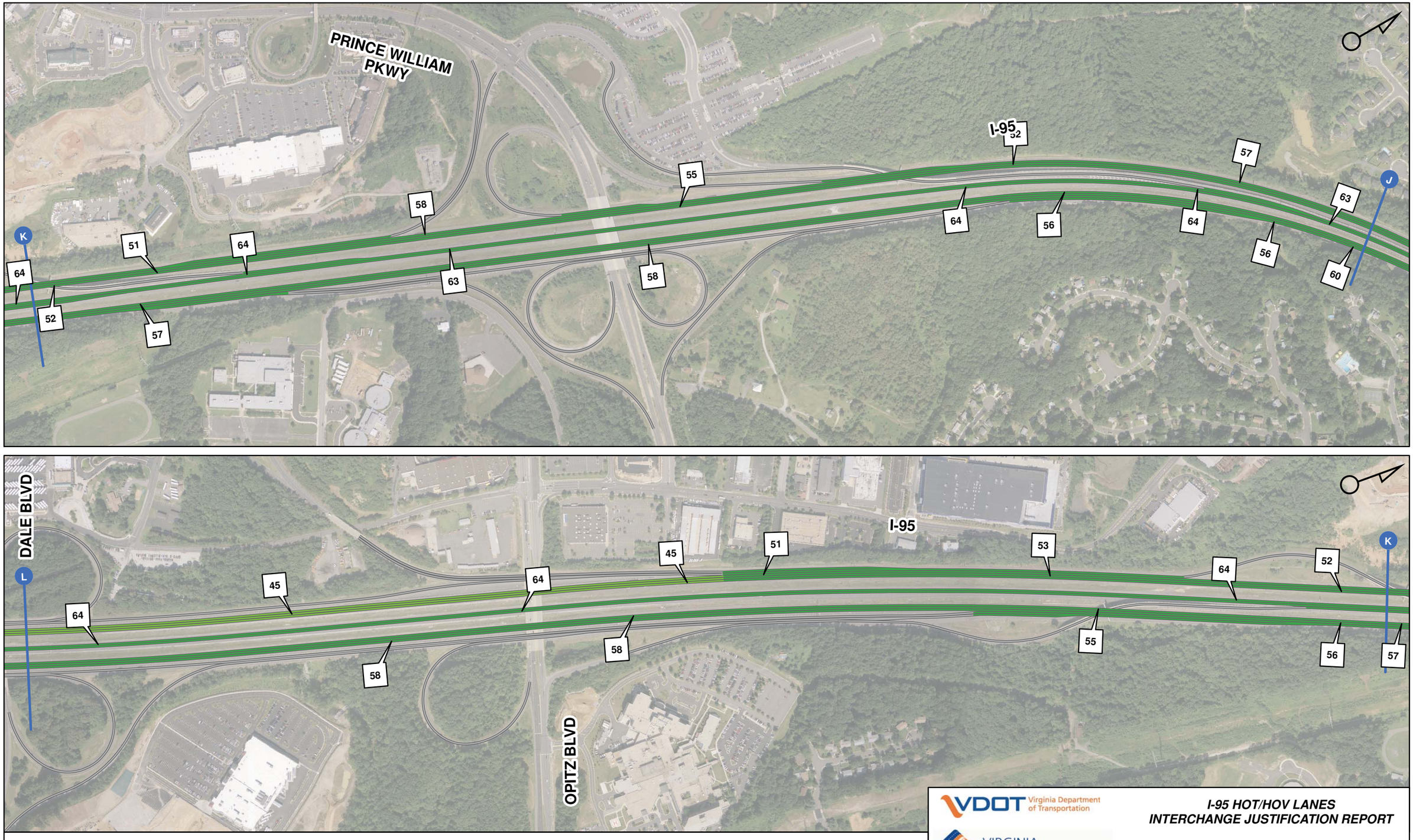
VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***I-95 HOV/HOT Lane Project Configuration***

**Figure:** ES-1I | **Scale:** 1" - 500' | **Date:** November 21, 2011 | ***FINAL***

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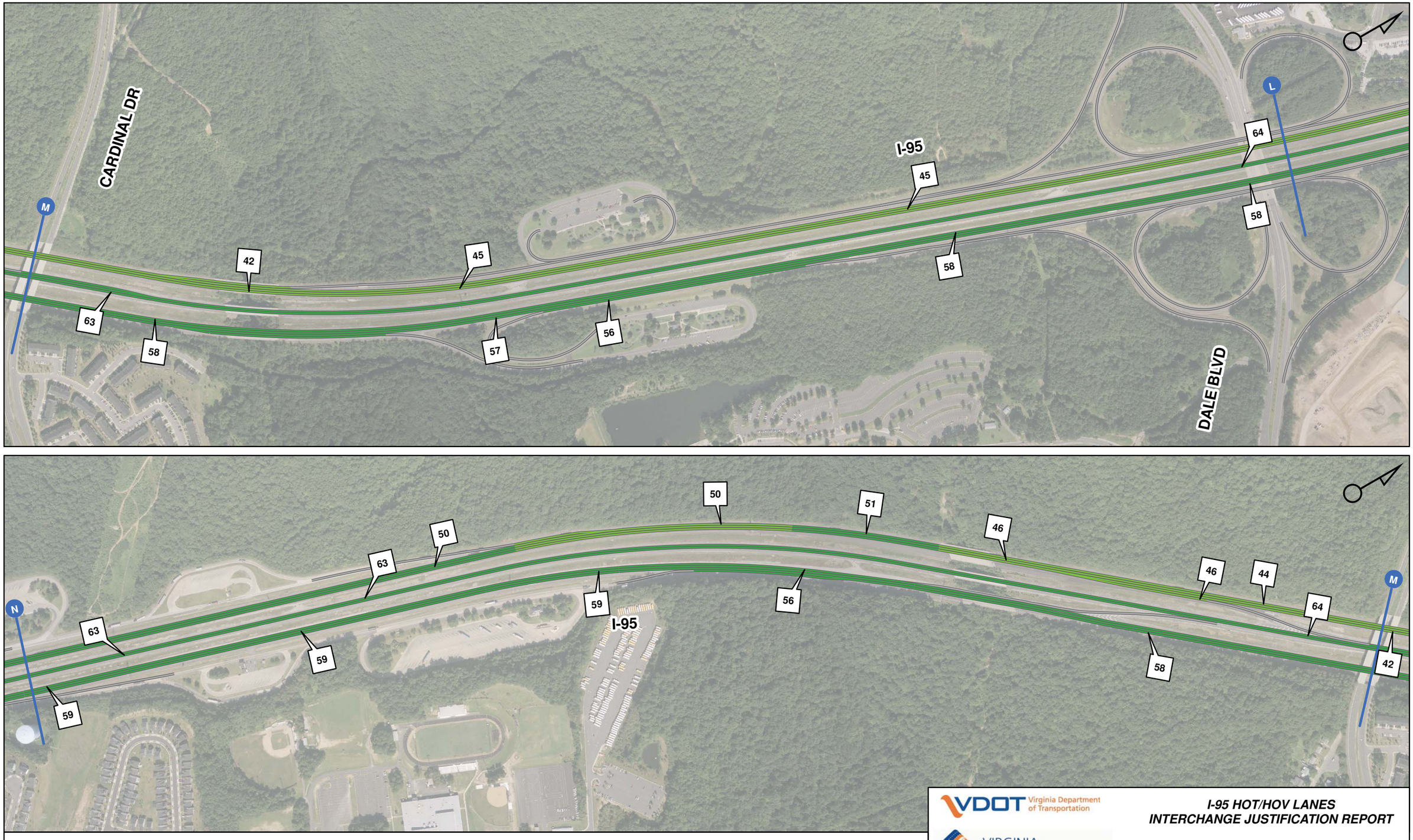
VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

***EXISTING PM - AVERAGE SPEED***
***PRINCE WILLIAM PKWY TO DALE BLVD***

| Figure: 9-3 F | Scale: 1" = 500' | Date: November 21, 2011 | *FINAL* |
|---|---|---|---|

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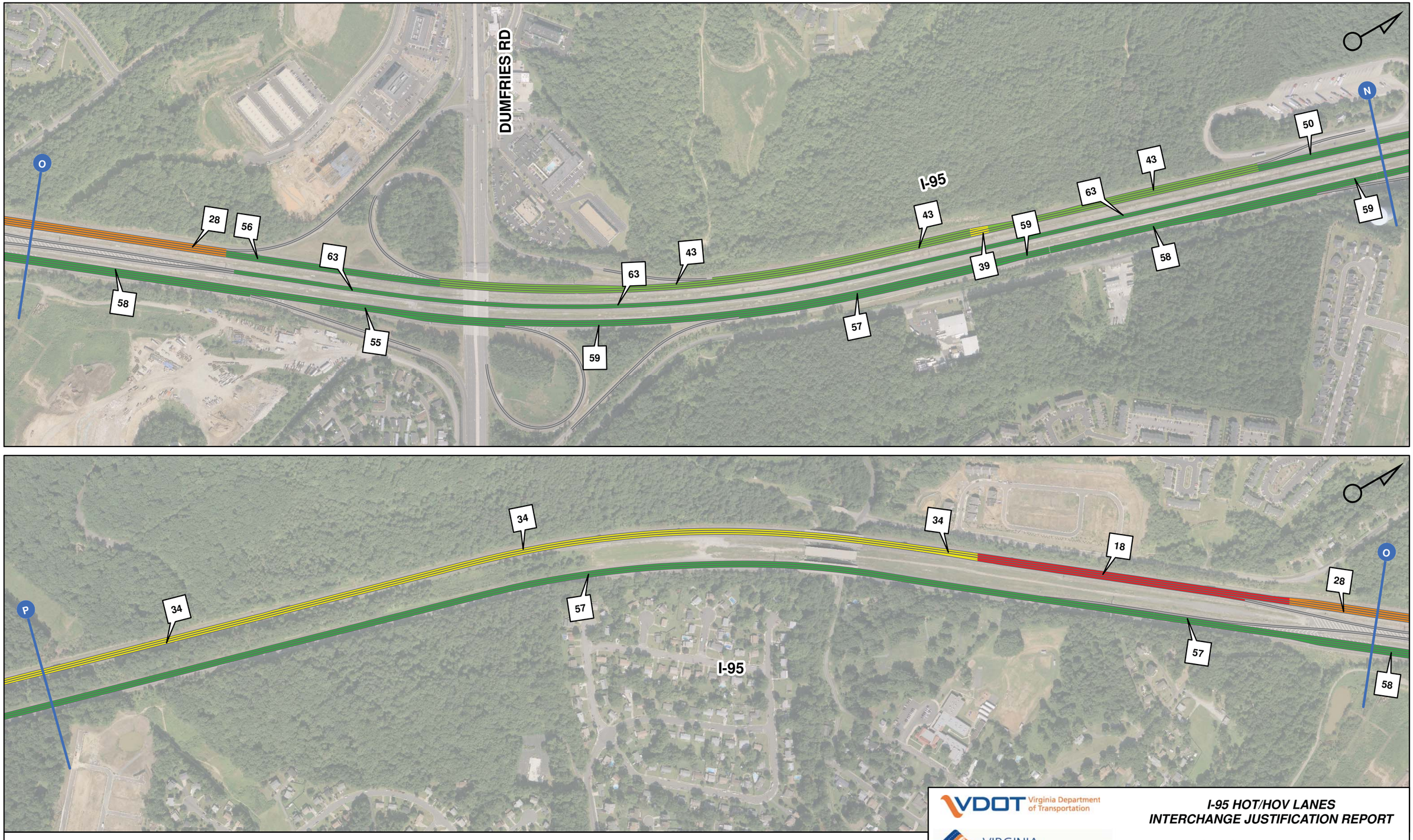
VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM - AVERAGE SPEED**
**DALE BLVD INTERCHANGE**

Figure: 9-3 G | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

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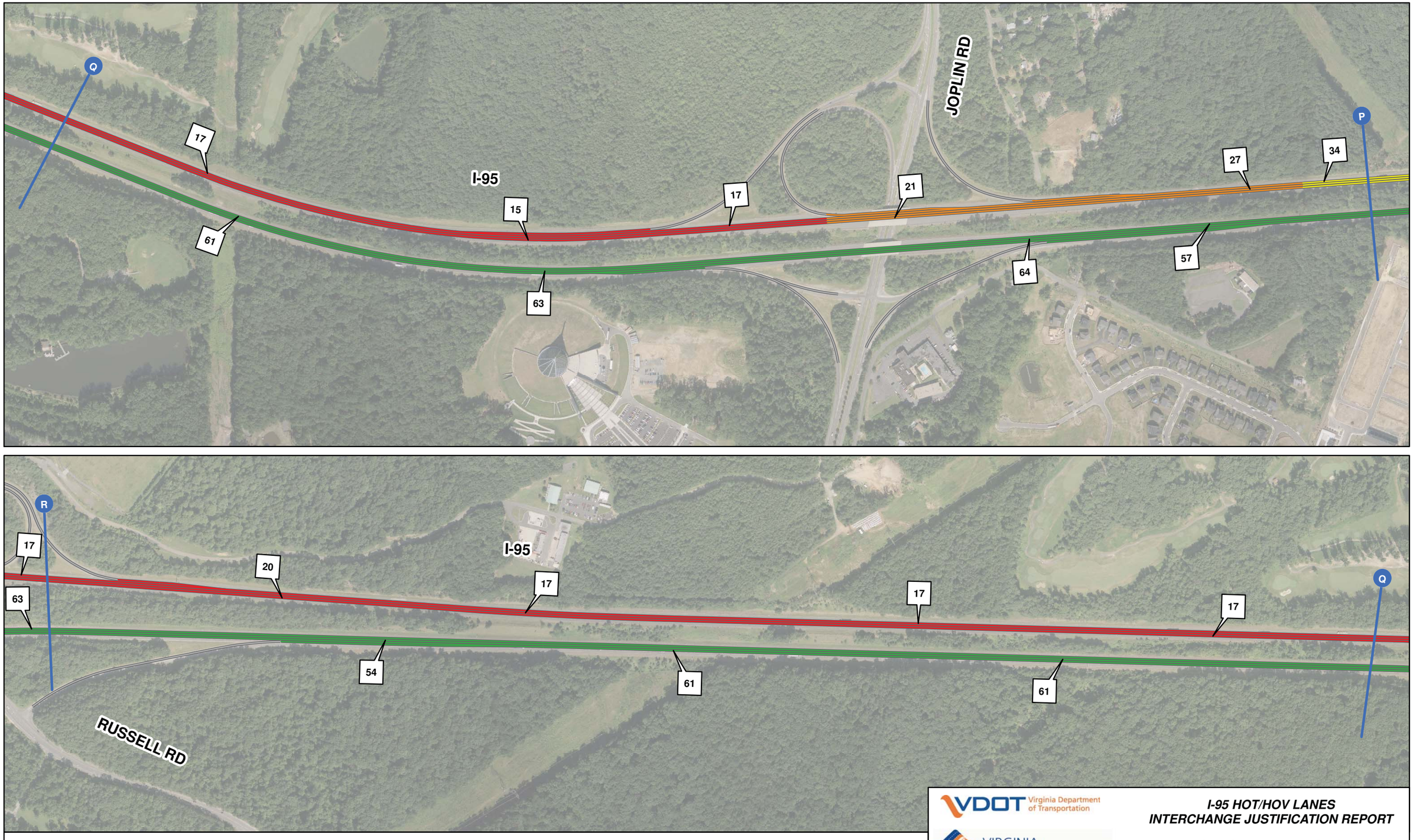
VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM - AVERAGE SPEED**
**DUMFRIES RD INTERCHANGE**

Figure: 9-3 H | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

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VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM - AVERAGE SPEED**
**JOPLIN RD TO RUSSELL RD**

Figure: 9-3 I | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

0 250 500 1,000 Feet

**Average Speed - miles per hour (MPH)**

123 — 10 - 20 MPH — 20 - 30 MPH — 30 - 40 MPH — 40 - 50 MPH — > 50 MPH

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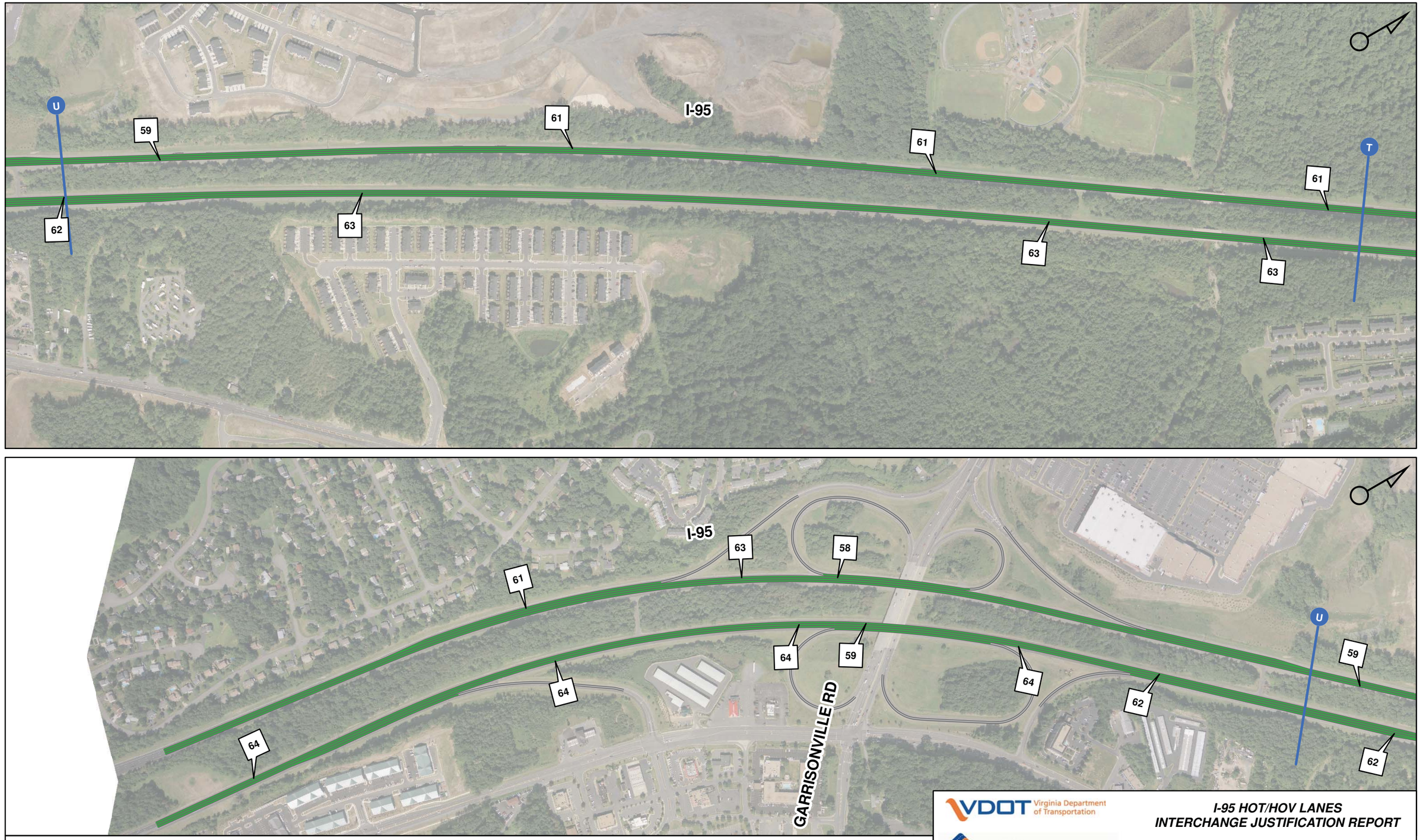
VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***EXISTING PM - AVERAGE SPEED***
***RUSSELL RD TO GARRISONVILLE RD***

**Figure: 9-3 J** **Scale: 1" = 500'** **Date:** November 21, 2011 ***FINAL***

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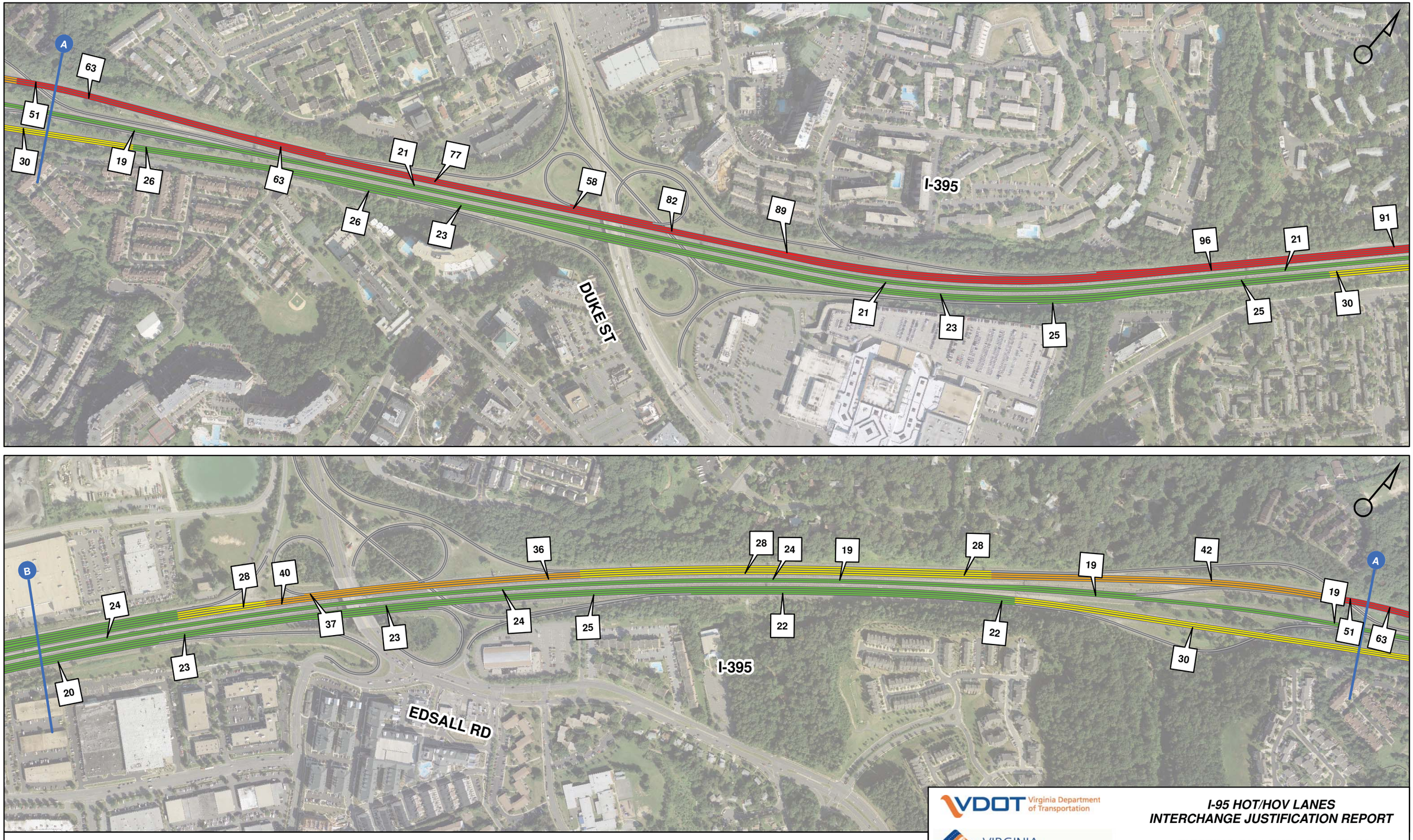
**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM - AVERAGE SPEED**
**GARRISONVILLE RD INTERCHANGE**

Figure: 9-3 K | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

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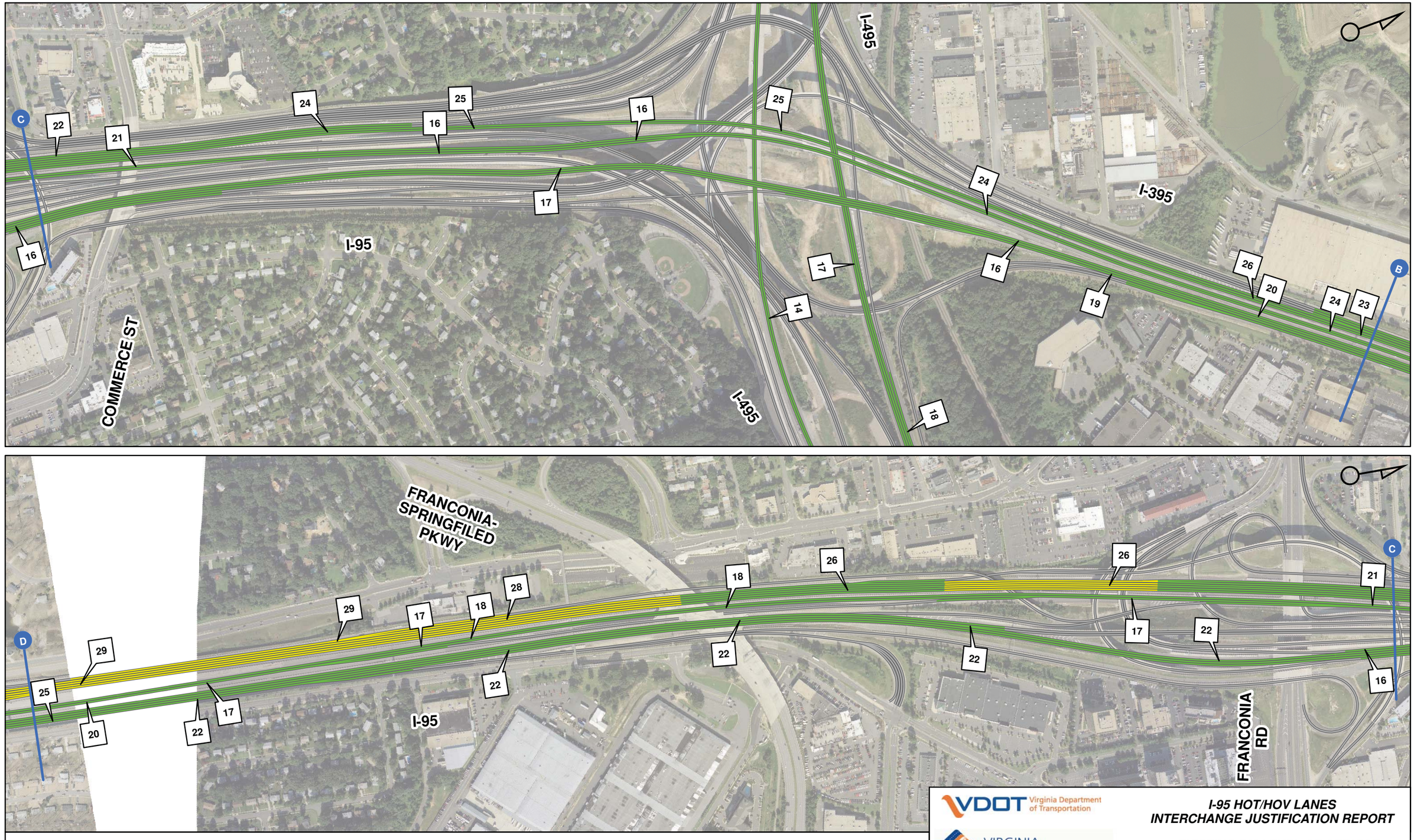
VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM LEVEL OF SERVICE**
**DUKE ST TO EDSALL RD**

Figure: 9-4 A | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

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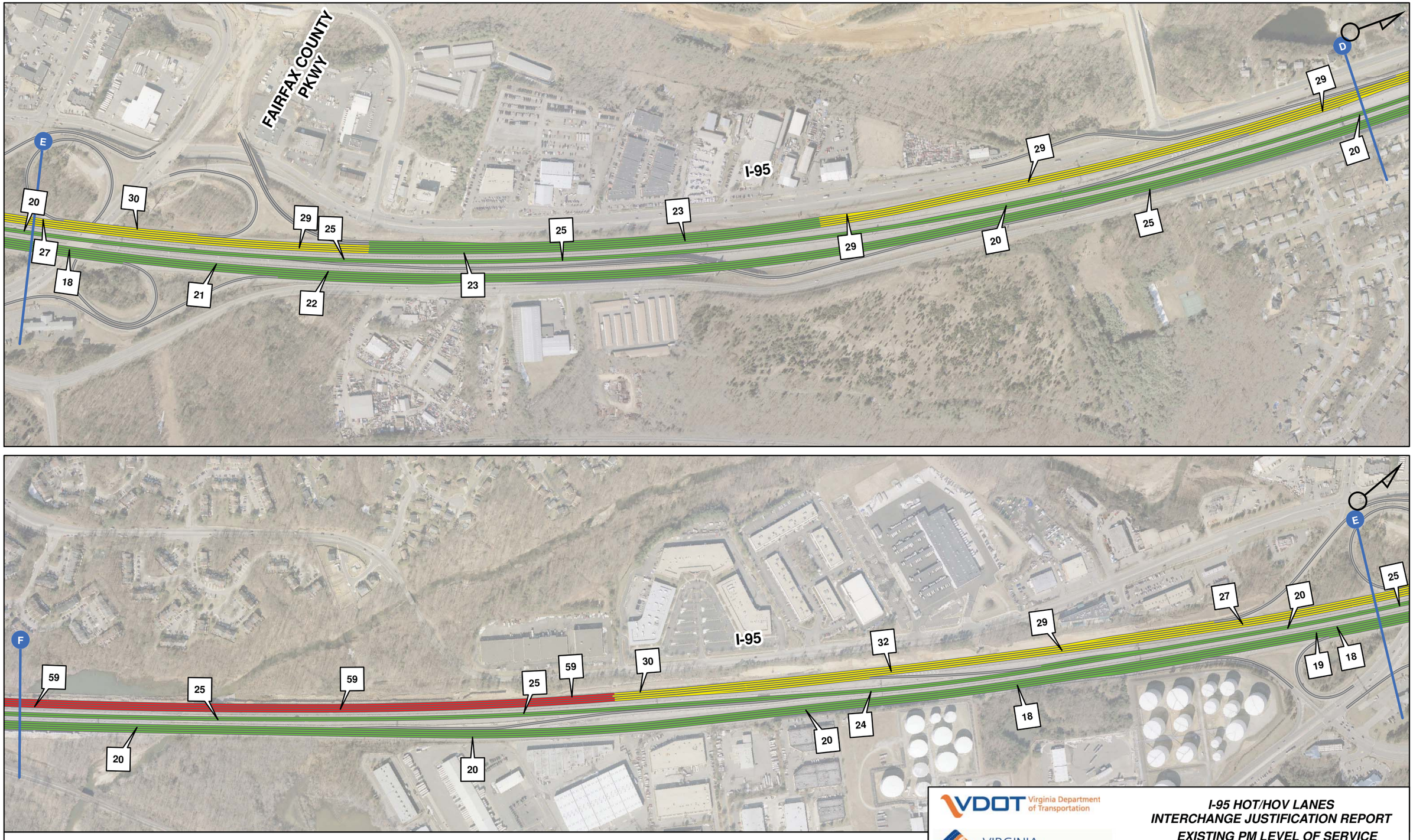
VIRGINIA MEGAPROJECTS

*I-95 HOT/HOV LANES*
*INTERCHANGE JUSTIFICATION REPORT*

*EXISTING PM LEVEL OF SERVICE*
*I-95/I-395/I-495 INTERCHANGE*

**Figure: 9-2 B** **Scale: 1" = 500'** **Date:** November 21, 2011 *FINAL*

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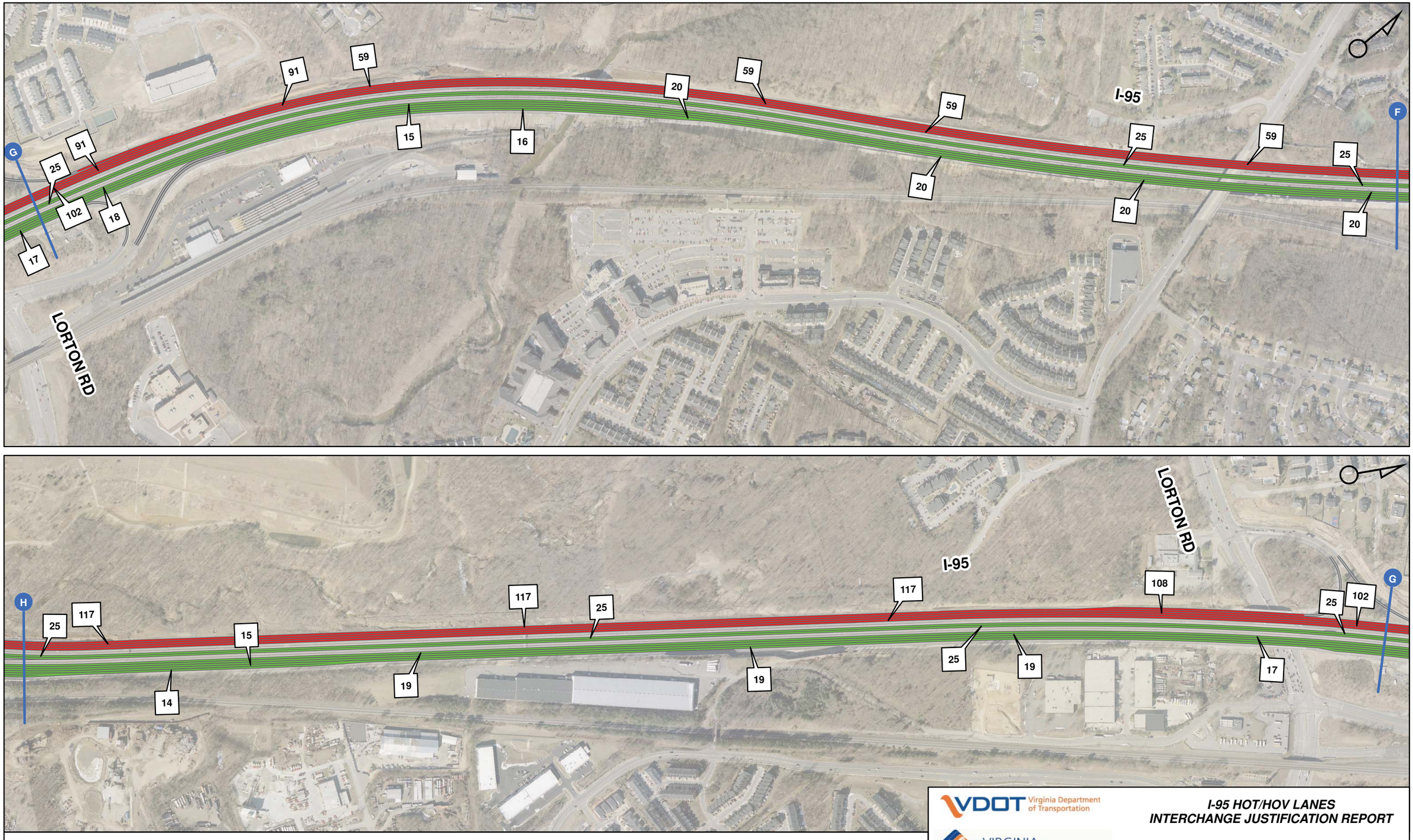
VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***EXISTING PM LEVEL OF SERVICE***
***I-95/I-395/I-495 INTERCHANGE TO***
***FAIRFAX COUNTY PKWY***

**Figure: 9-2 C** **Scale: 1" = 500'** **Date:** November 21, 2011 ***FINAL***

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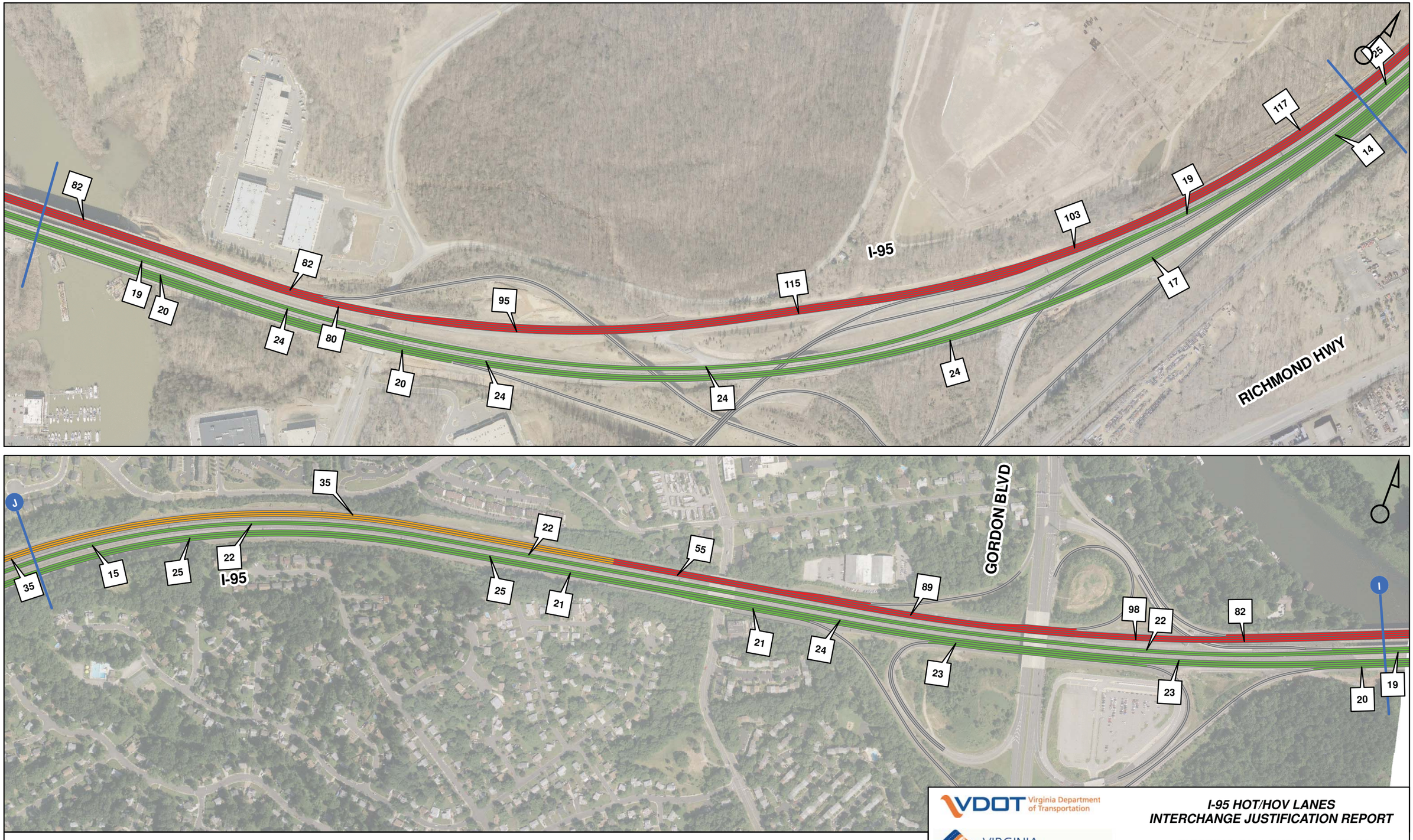
VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM LEVEL OF SERVICE**
**FAIRFAX COUNTY PKWY TO LORTON RD**

| Figure: 9-4 D | Scale: 1" = 500' | Date: November 21, 2011 | FINAL |
|---|---|---|---|

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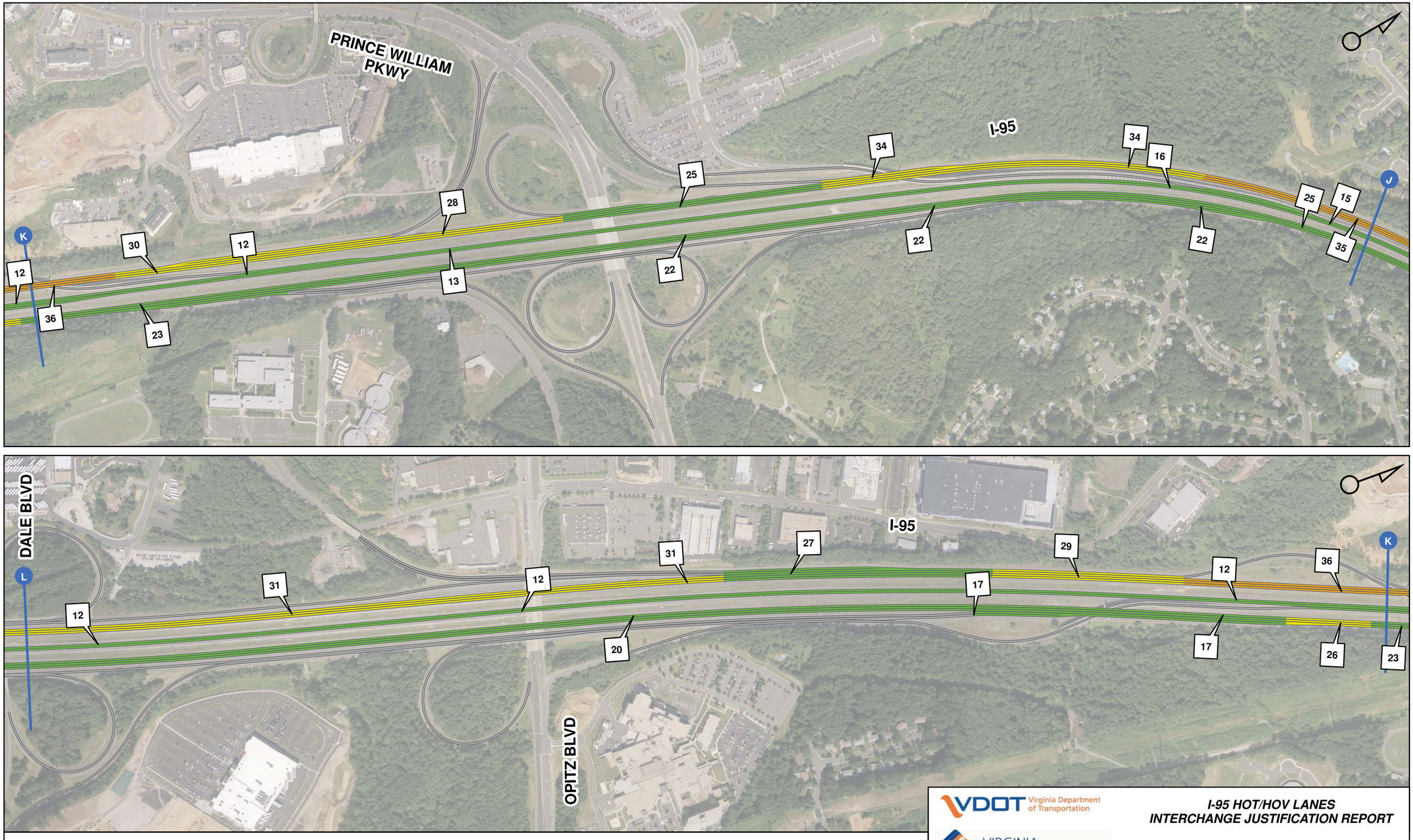
VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***EXISTING PM LEVEL OF SERVICE***
***RICHMOND HWY TO GORDON BLVD***

**Figure: 9-4 E** **Scale: 1" = 500'** **Date:** November 21, 2011 ***FINAL***

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VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM LEVEL OF SERVICE**
**PRINCE WILLIAM PKWY TO DALE BLVD**

Figure: 9-4 F | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

Feet
0 250 500 1,000

**Density - vehicles per hour per lane**

123

**Level of Service**

A - C D E F

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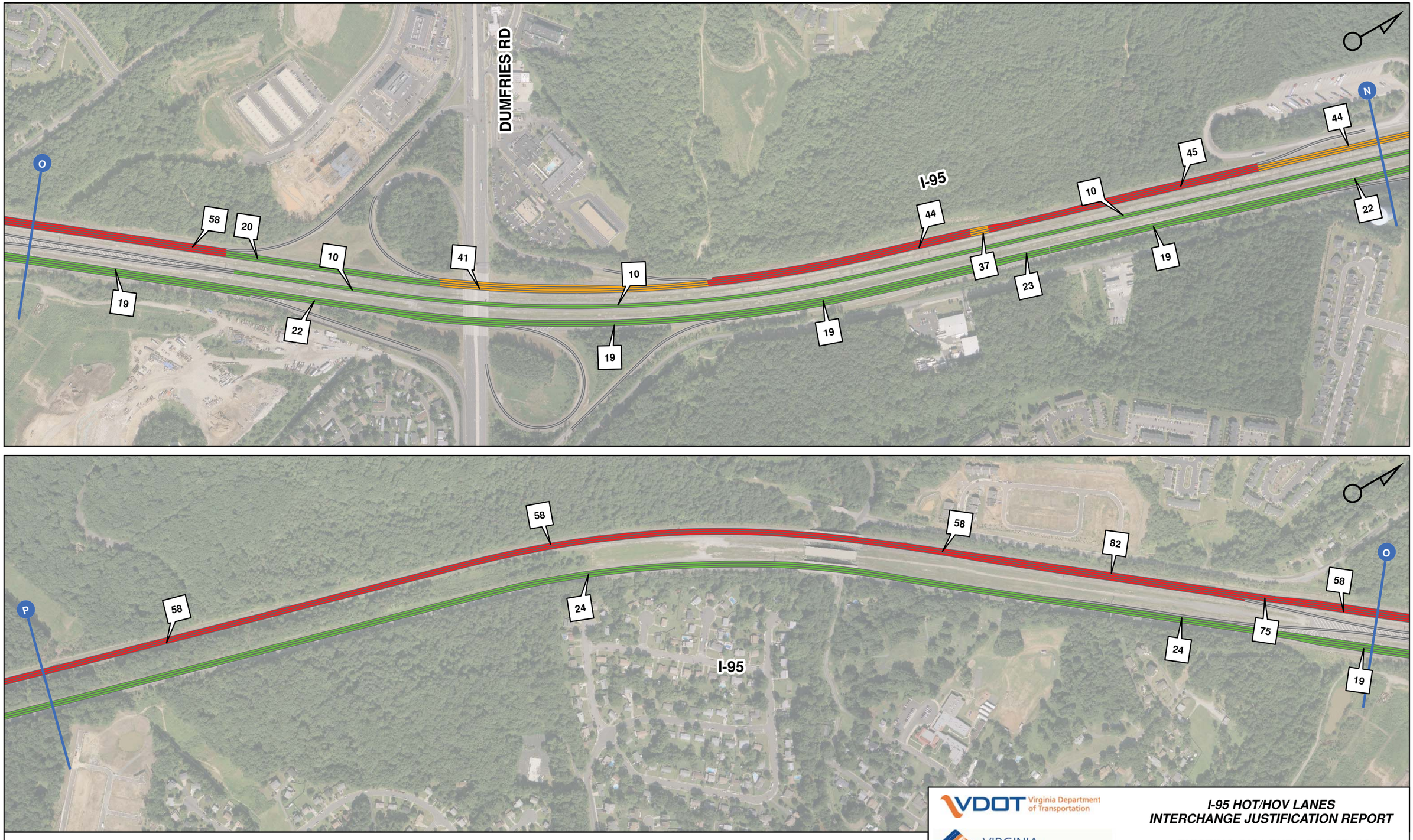
VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***EXISTING PM LEVEL OF SERVICE***
***DALE BLVD INTERCHANGE***

**Figure: 9-4 G** **Scale: 1" = 500'** **Date:** November 21, 2011 ***FINAL***

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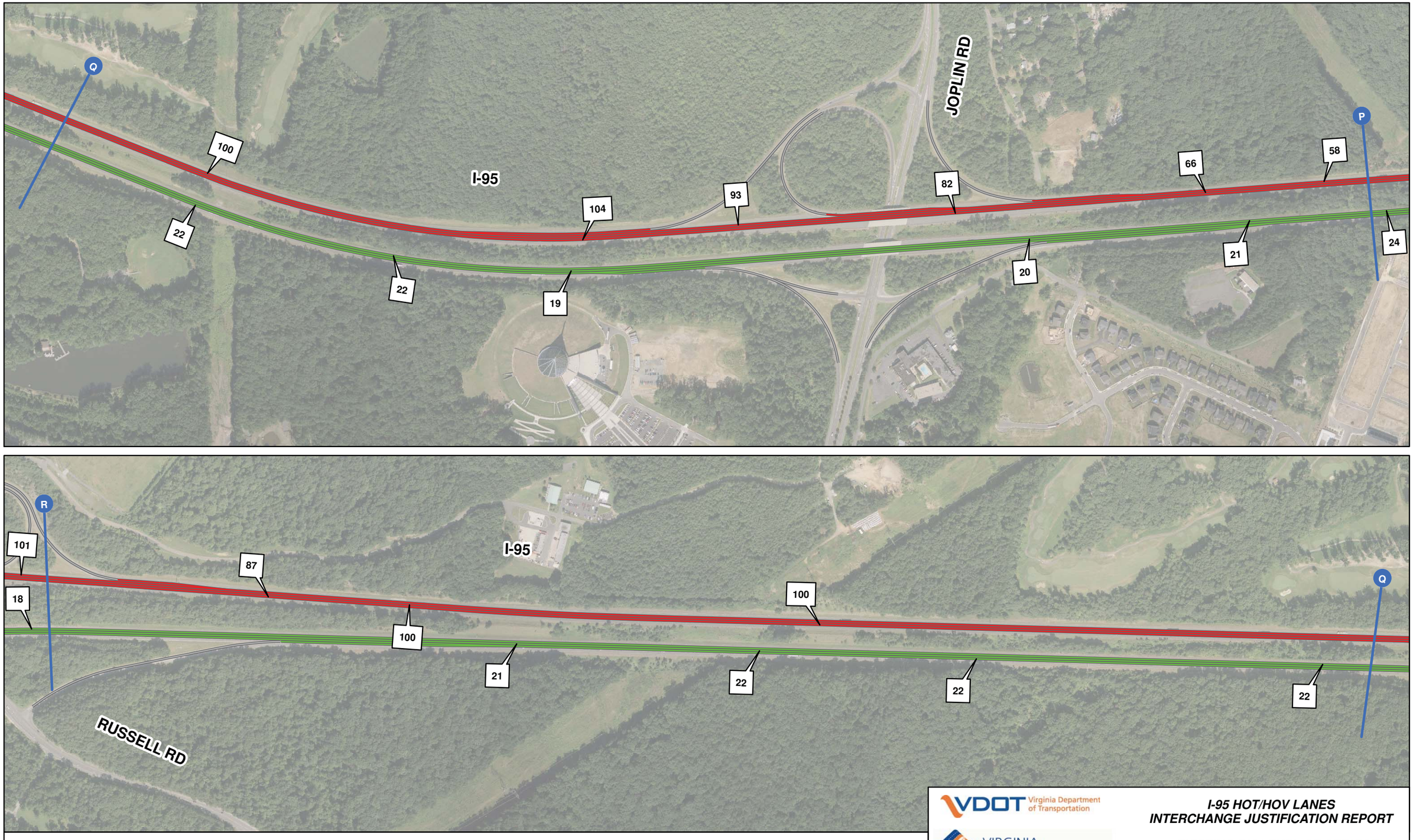
VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM LEVEL OF SERVICE**
**DUMFRIES RD INTERCHANGE**

| Figure: 9-4 H | Scale: 1" = 500' | Date: November 21, 2011 | FINAL |
|---|---|---|---|

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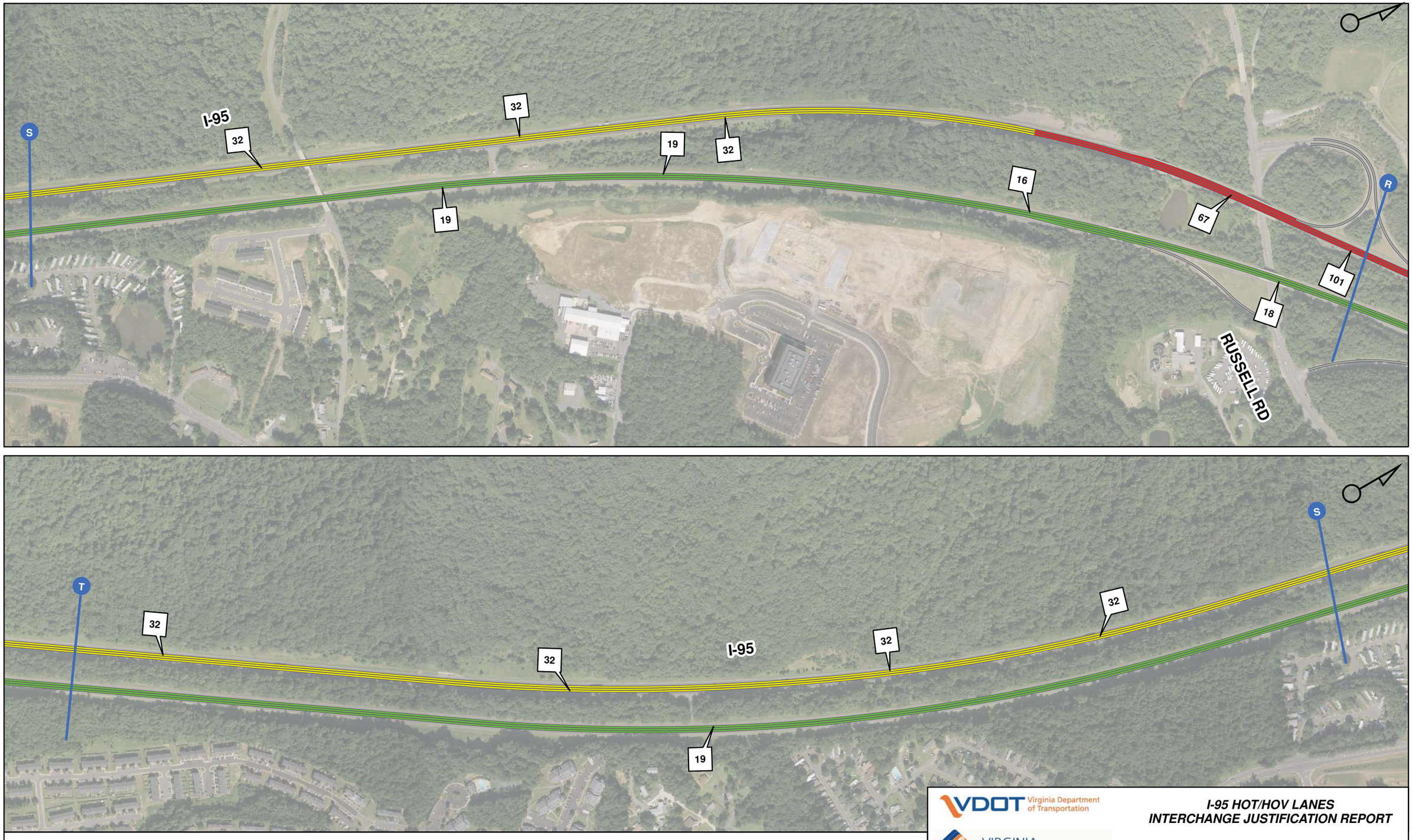
VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**EXISTING PM LEVEL OF SERVICE**
**JOPLIN RD TO RUSSELL RD**

Figure: 9-4 I | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

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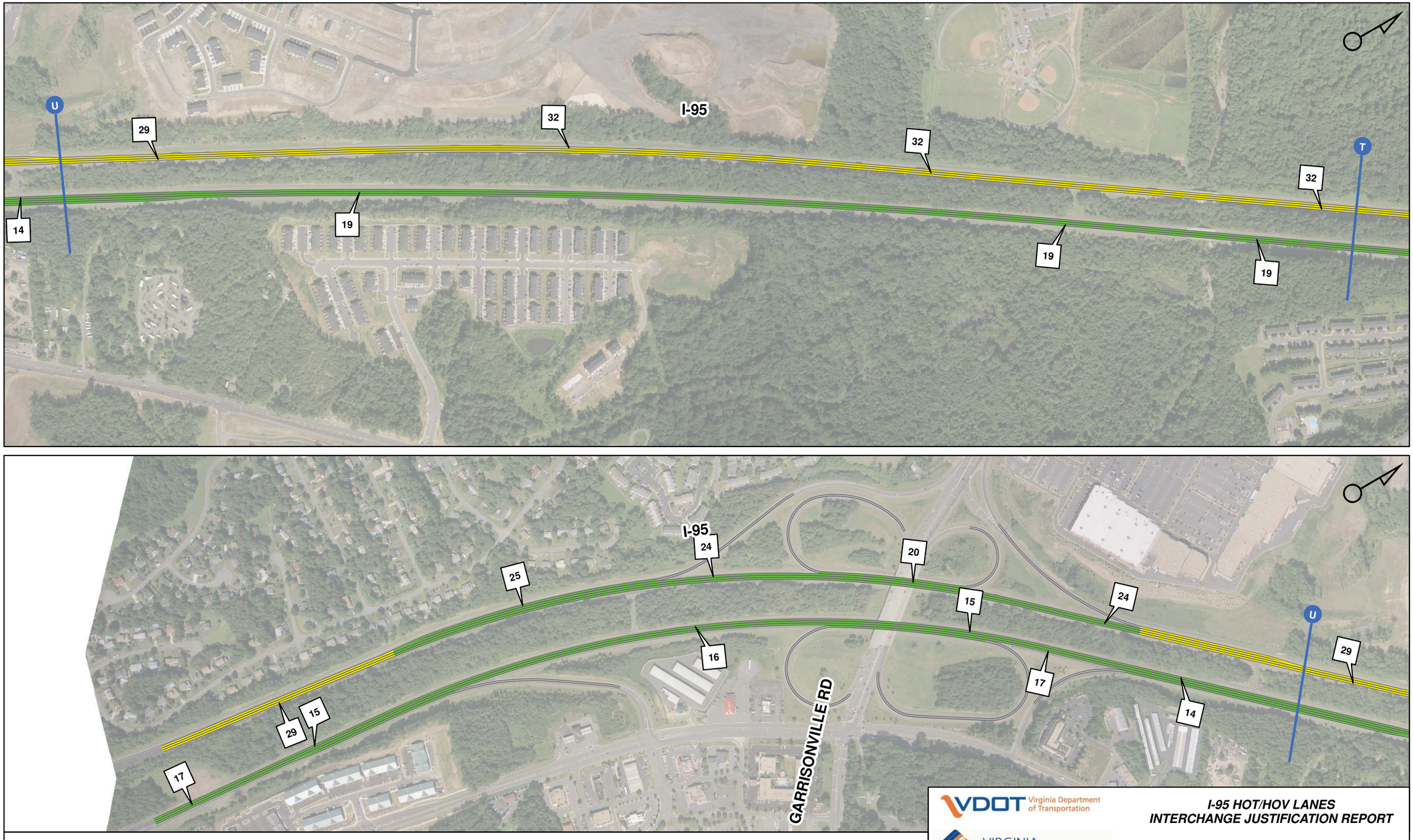
VIRGINIA MEGAPROJECTS

# I-95 HOT/HOV LANES
# INTERCHANGE JUSTIFICATION REPORT

## EXISTING PM LEVEL OF SERVICE
## RUSSELL RD TO GARRISONVILLE RD

Figure: 9-4 J | Scale: 1" = 500' | Date: November 21, 2011 | FINAL

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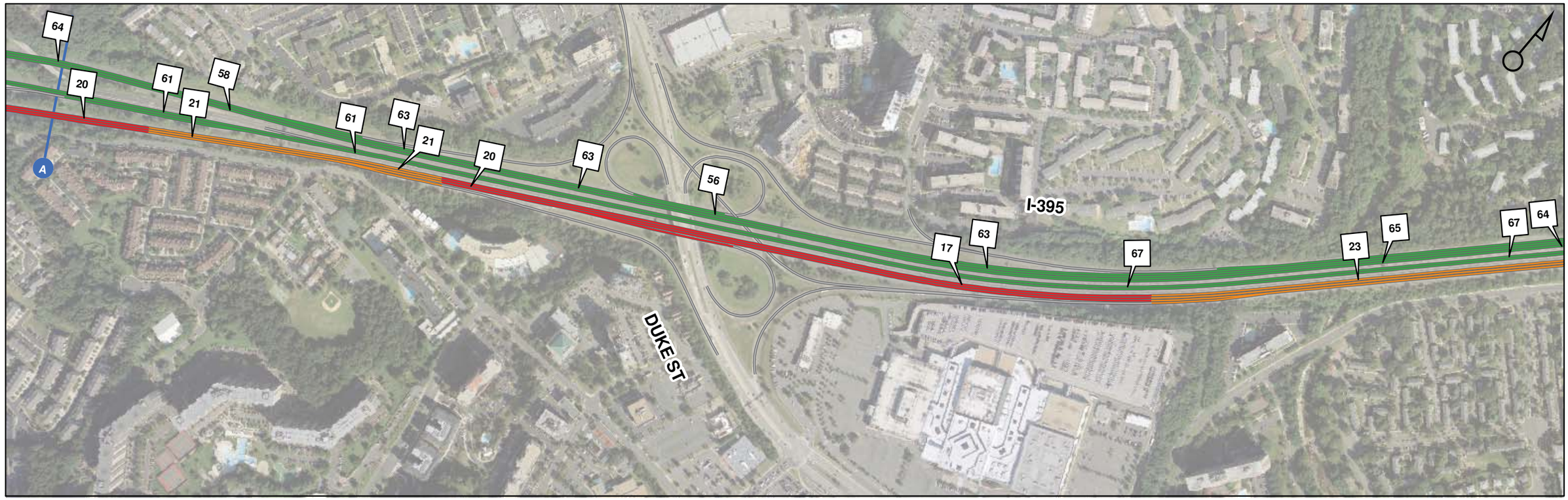
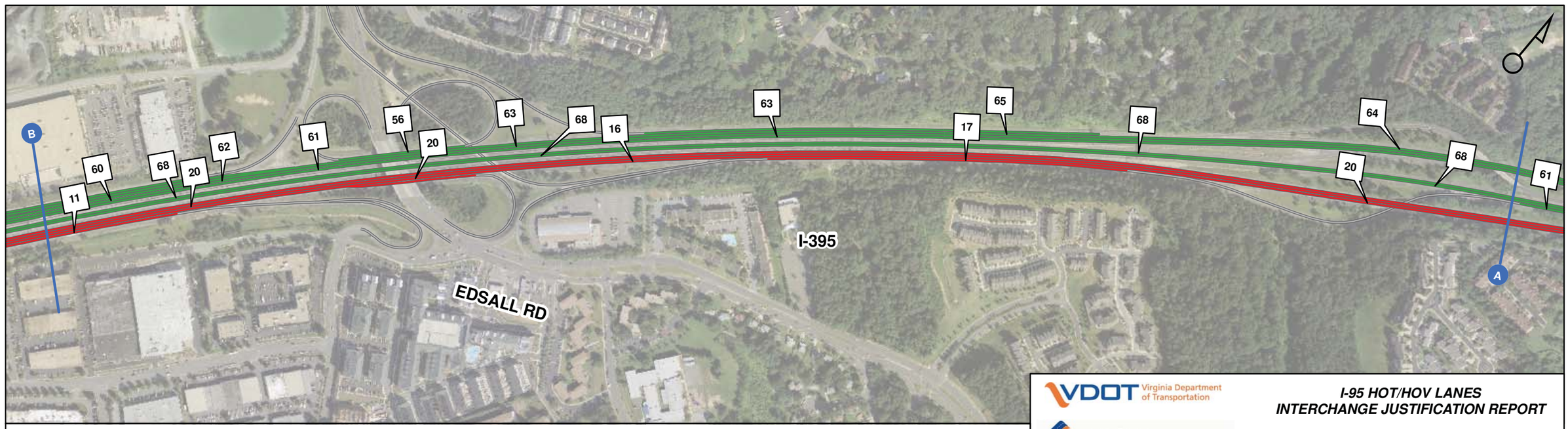
VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***EXISTING PM LEVEL OF SERVICE***
***GARRISONVILLE RD INTERCHANGE***

**Figure: 9-4 K** **Scale: 1" = 500'** **Date:** November 21, 2011 ***FINAL***




0 250 500 1,000 Feet

**Average Speed - miles per hour (MPH)**

123 — 10 - 20 MPH — 20 - 30 MPH — 30 - 40 MPH — 40 - 50 MPH — > 50 MPH

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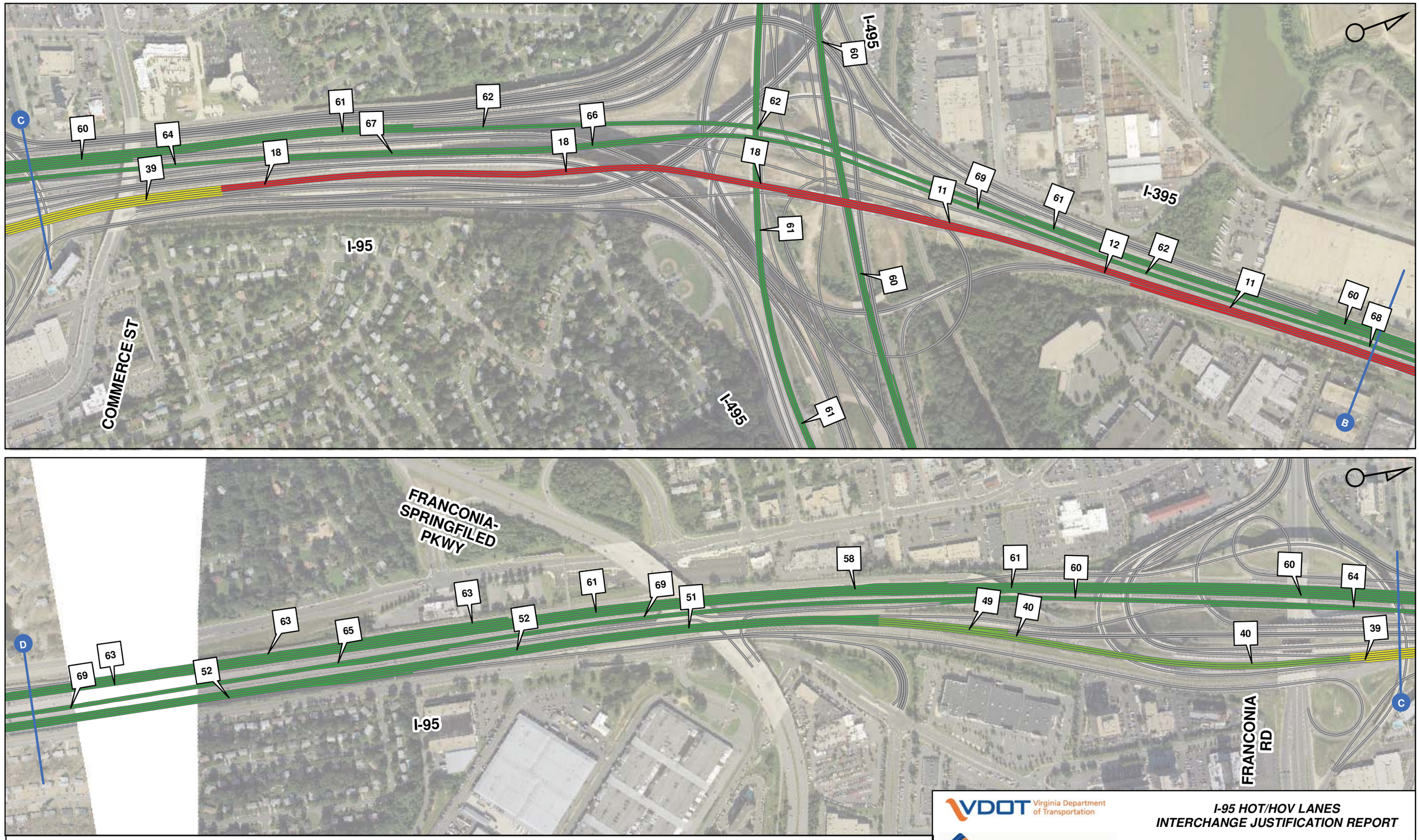
VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***2018 NO BUILD AM - AVERAGE SPEED***
***DUKE ST TO EDSALL RD***

**Figure: 9-5 A** **Scale: 1" = 500'** **Date:** November 21, 2011 ***FINAL***

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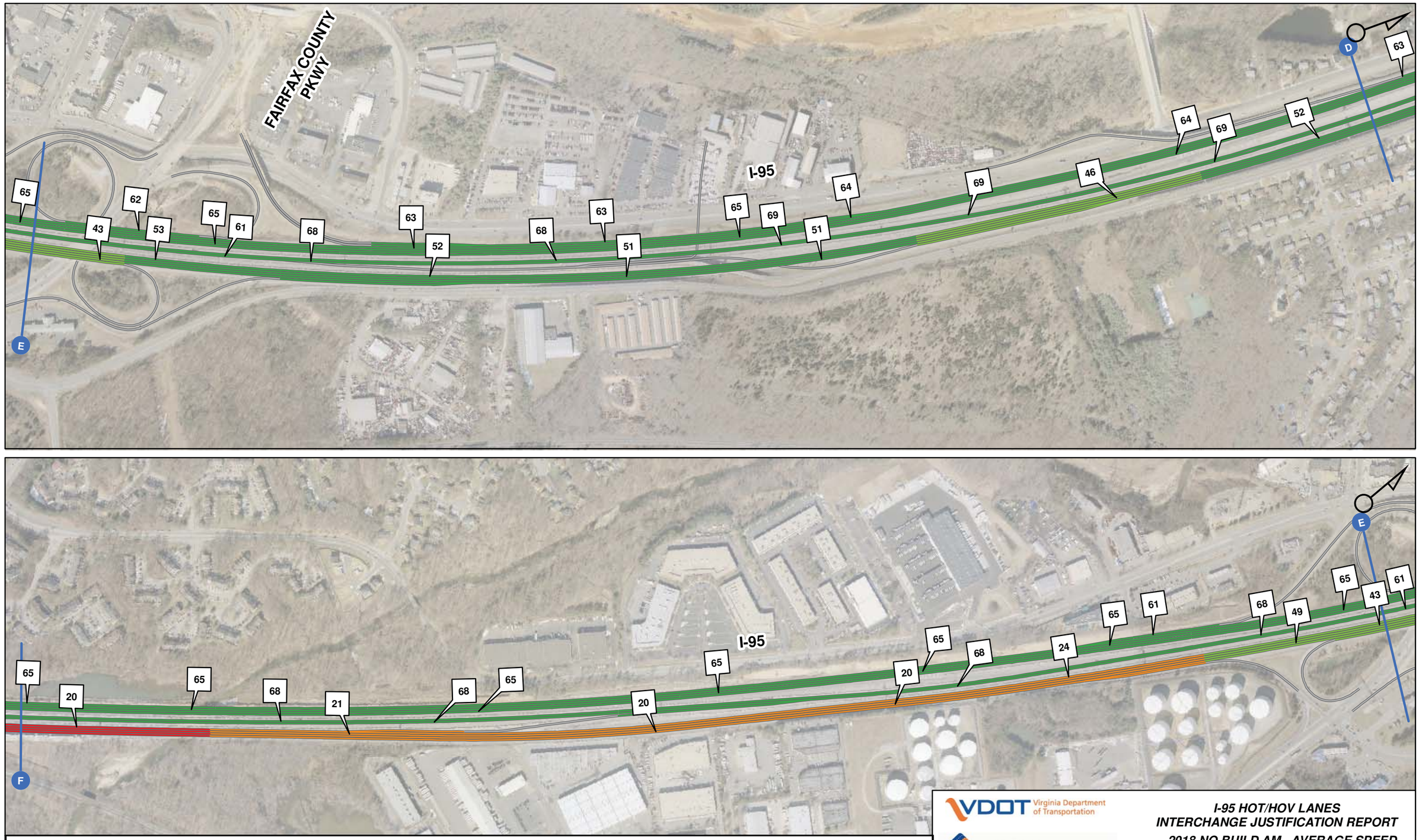
VIRGINIA MEGAPROJECTS

*I-95 HOT/HOV LANES*
*INTERCHANGE JUSTIFICATION REPORT*

*2018 NO BUILD AM - AVERAGE SPEED*
*I-95/1-395/1-495 INTERCHANGE*

| Figure: 9-5 B | Scale: 1" = 500' | Date: November 21, 2011 | *FINAL* |
|---|---|---|---|




Average Speed - miles per hour (MPH)

123 — 10 - 20 MPH | 20 - 30 MPH | 30 - 40 MPH | 40 - 50 MPH | > 50 MPH

0 250 500 1,000 Feet

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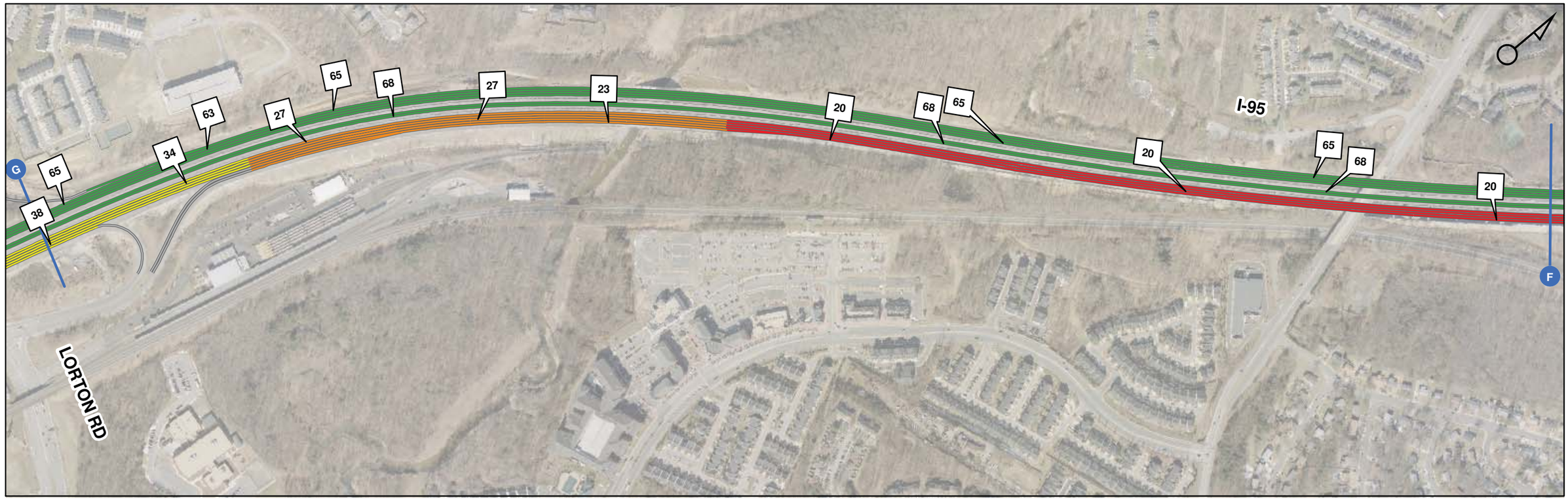
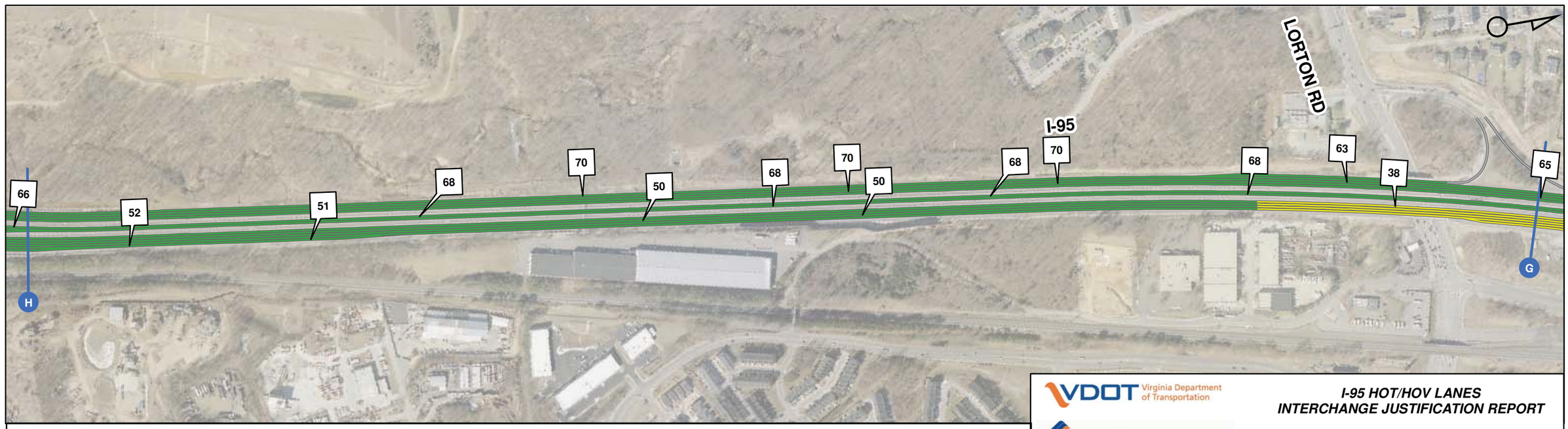
VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**2018 NO BUILD AM - AVERAGE SPEED**
**FRANCONIA-SPRINGFIELD PKWY TO FAIRFAX COUNTY PKWY**

Figure: 9-5 C | Scale: 1" = 500' | Date: November 21, 2011 | FINAL




0 250 500 1,000 Feet

**Average Speed - miles per hour (MPH)**

123 | 10 - 20 MPH | 20 - 30 MPH | 30 - 40 MPH | 40 - 50 MPH | > 50 MPH

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VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***2018 NO BUILD AM - AVERAGE SPEED***
***FAIRFAX COUNTY PKWY TO LORTON RD***

**Figure: 9-5 D** | **Scale: 1" = 500'** | **Date:** November 21, 2011 | ***FINAL***

I-95

RICHMOND HWY

GORDON BLVD

0 250 500 1,000 Feet

**Average Speed - miles per hour (MPH)**

123 — 10 - 20 MPH | 20 - 30 MPH | 30 - 40 MPH | 40 - 50 MPH | > 50 MPH

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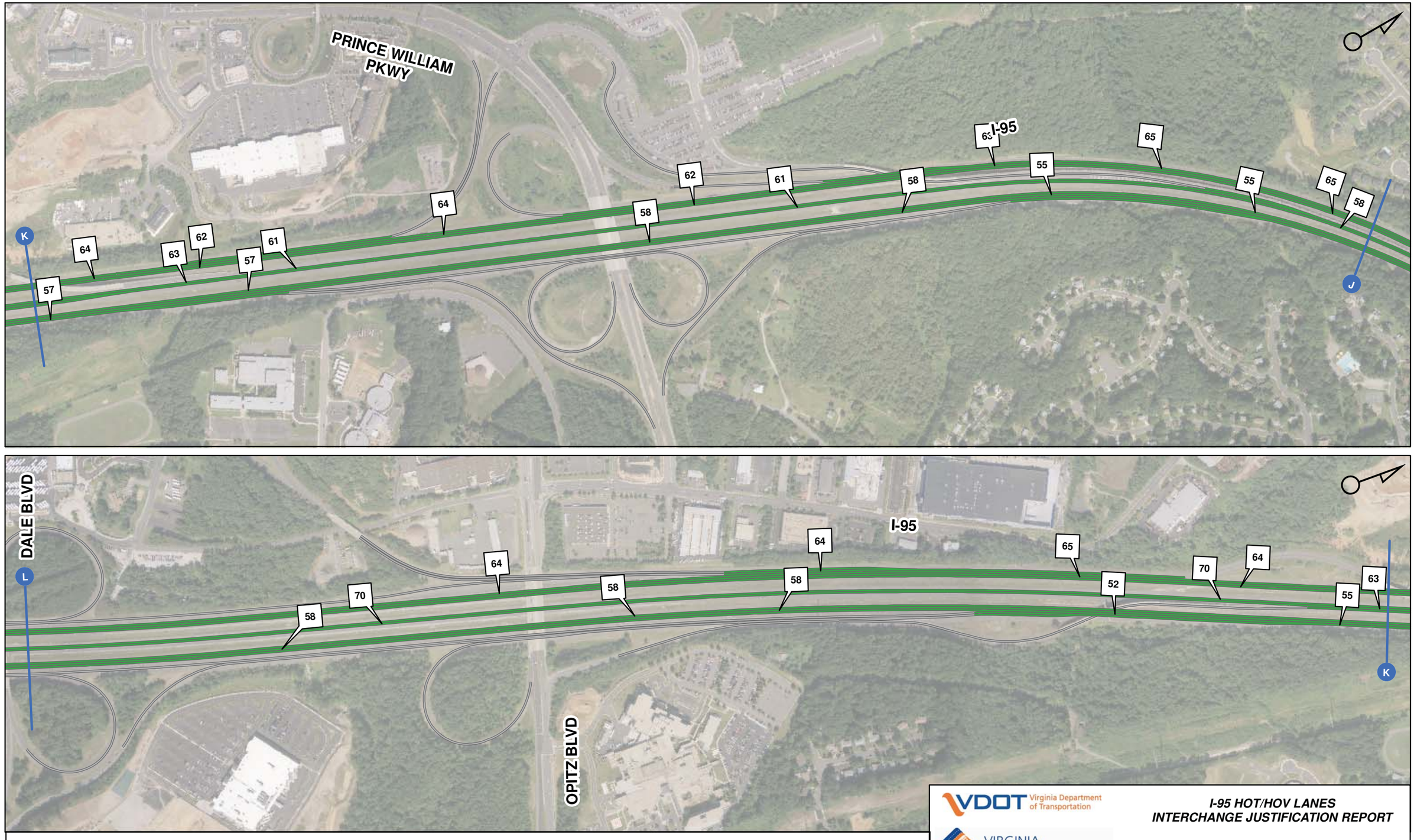
VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***2018 NO BUILD AM - AVERAGE SPEED***
***RICHMOND HWY TO GORDON BLVD***

**Figure: 9-5 E** | **Scale: 1" = 500'** | **Date:** November 21, 2011 | ***FINAL***




Average Speed - miles per hour (MPH)

123 — 10 - 20 MPH | 20 - 30 MPH | 30 - 40 MPH | 40 - 50 MPH | > 50 MPH

0 250 500 1,000 Feet

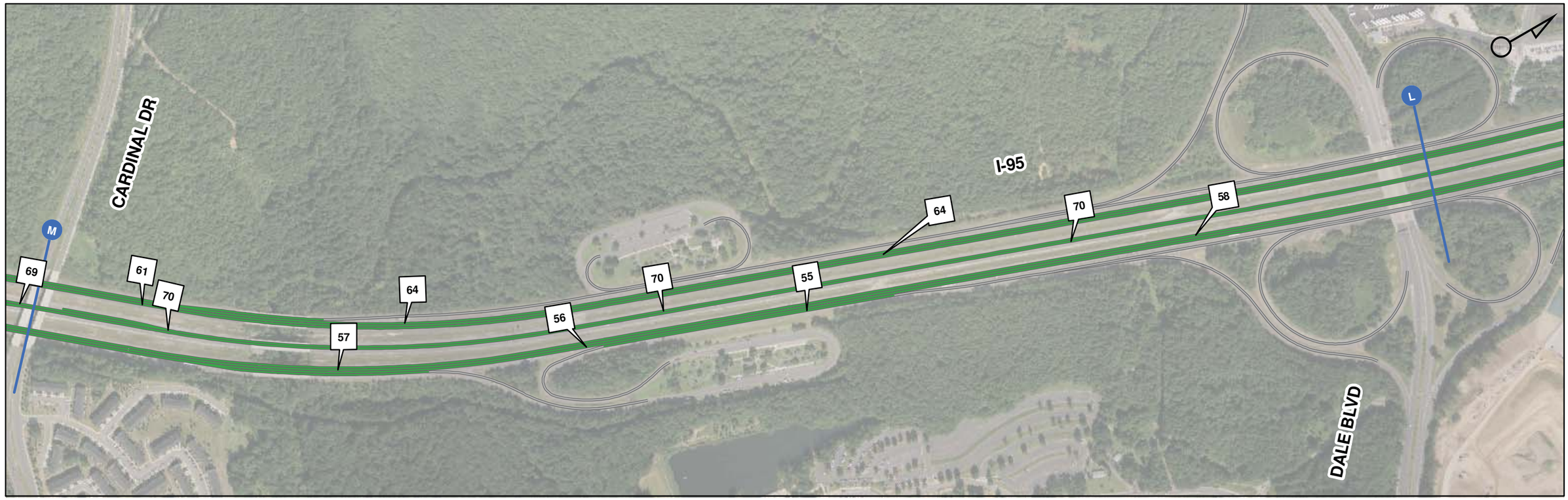
VDOT Virginia Department of Transportation

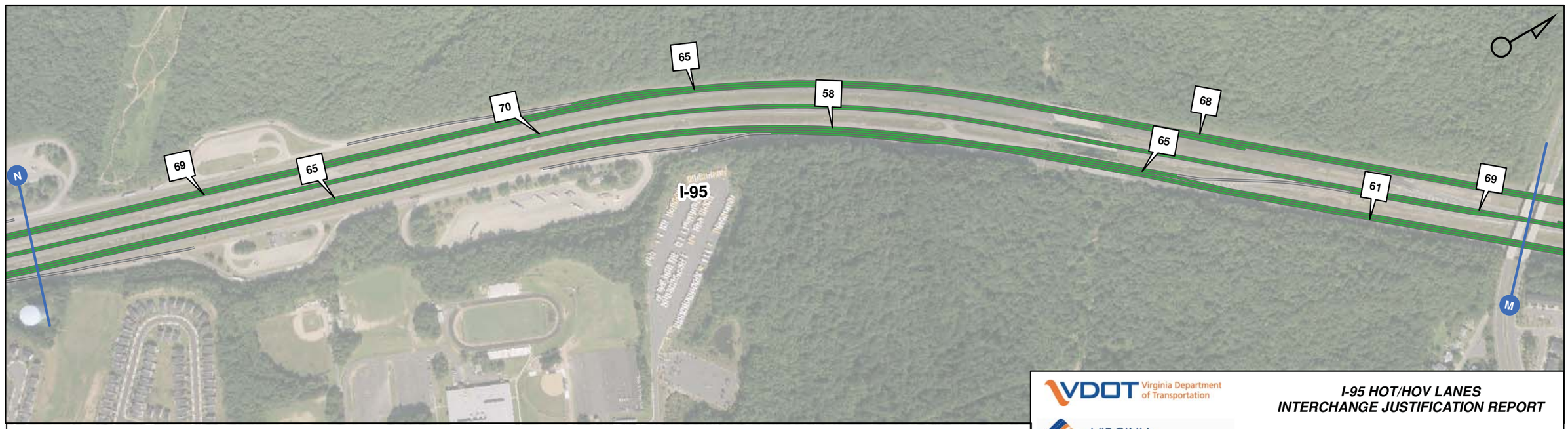
VIRGINIA MEGAPROJECTS

*I-95 HOT/HOV LANES*
*INTERCHANGE JUSTIFICATION REPORT*

*2018 NO BUILD AM - AVERAGE SPEED*
*PRINCE WILLIAM PKWY TO DALE BLVD*

Figure: 9-5 F | Scale: 1" = 500' | Date: November 21, 2011 | *FINAL*




0 250 500 1,000 Feet

**Average Speed - miles per hour (MPH)**

123 — 10 - 20 MPH | 20 - 30 MPH | 30 - 40 MPH | 40 - 50 MPH | > 50 MPH

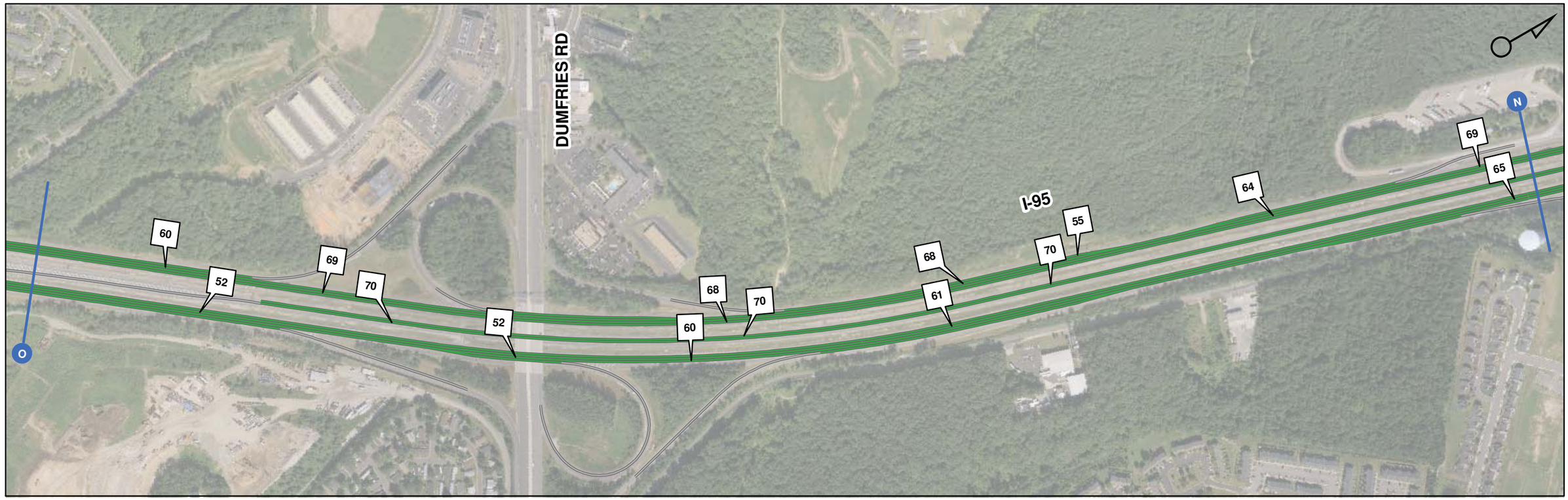
VDOT Virginia Department of Transportation

VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***2018 NO BUILD AM - AVERAGE SPEED***
***DALE BLVD INTERCHANGE***

**Figure: 9-5 G** | **Scale: 1" = 500'** | **Date:** November 21, 2011 | ***FINAL***



0 250 500 1,000 Feet

**Average Speed - miles per hour (MPH)**

123 — 10 - 20 MPH | 20 - 30 MPH | 30 - 40 MPH | 40 - 50 MPH | > 50 MPH

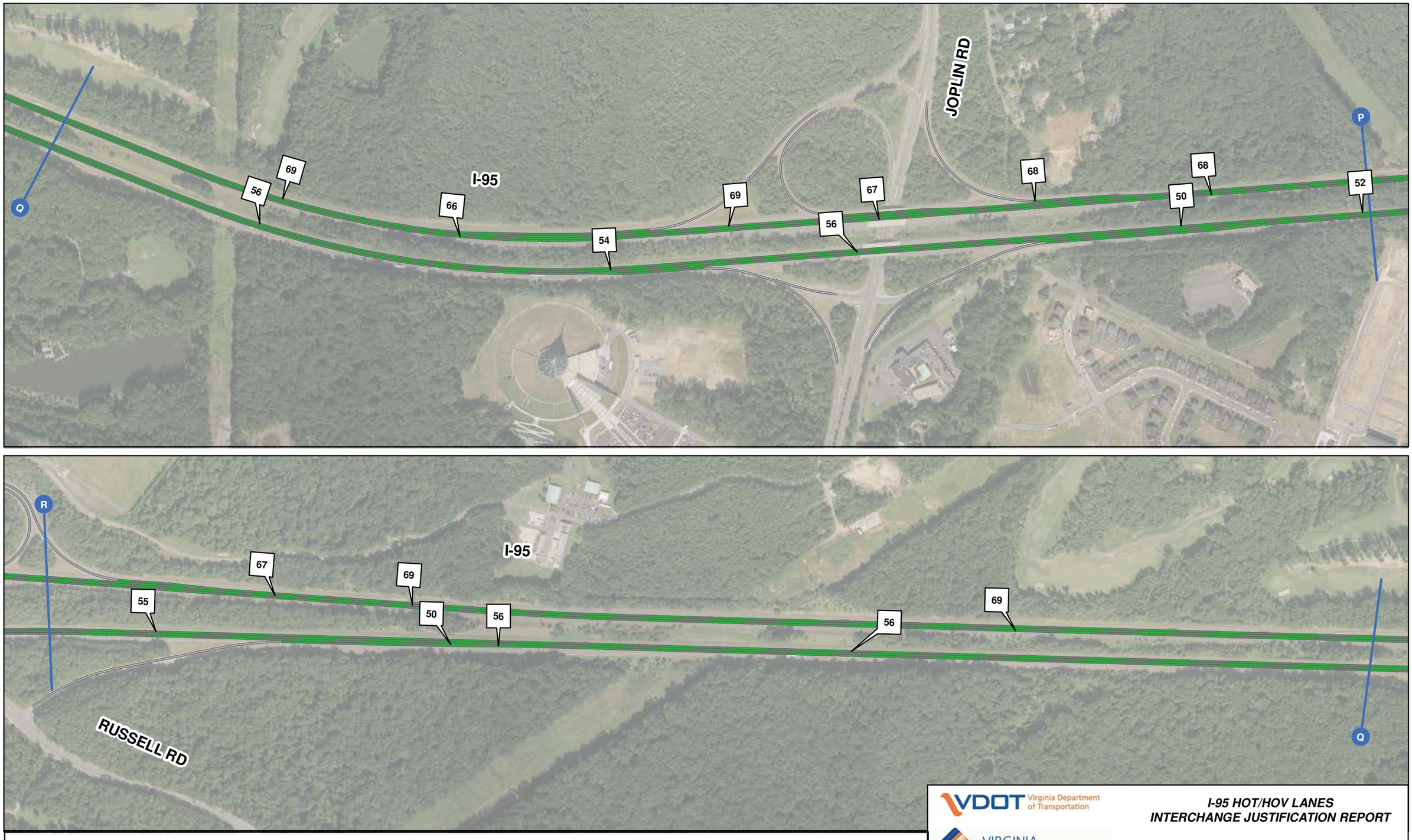
VDOT Virginia Department of Transportation

VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***2018 NO BUILD AM - LEVEL OF SERVICE***
***DUMFRIES RD INTERCHANGE***

**Figure: 9-5 H** | **Scale: 1" = 500'** | **Date:** November 21, 2011 | ***FINAL***

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VIRGINIA MEGAPROJECTS

*I-95 HOT/HOV LANES*
*INTERCHANGE JUSTIFICATION REPORT*

*2018 NO BUILD AM - AVERAGE SPEED*
*JOPLIN RD TO RUSSELL RD*

**Figure: 9-5 I** | **Scale: 1" = 500'** | **Date:** November 21, 2011 | *FINAL*

0 250 500 1,000 Feet

**Average Speed - miles per hour (MPH)**

123 — 10 - 20 MPH — 20 - 30 MPH — 30 - 40 MPH — 40 - 50 MPH — > 50 MPH

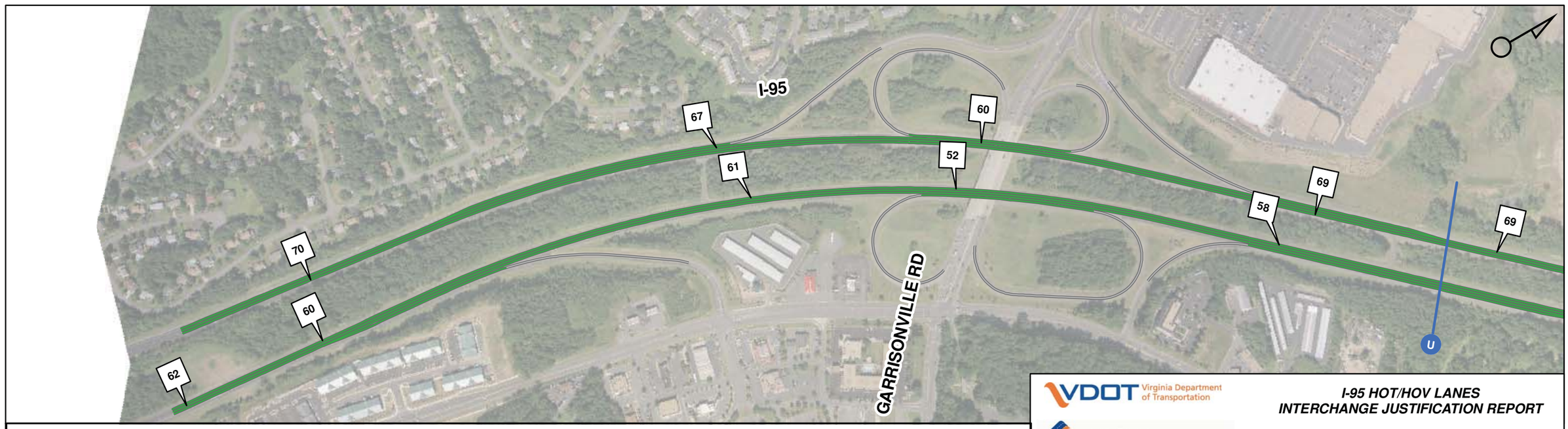
VDOT Virginia Department of Transportation

VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***2018 NO BUILD AM - AVERAGE SPEED***
***RUSSELL RD TO GARRISONVILLE RD***

**Figure: 9-5 J** **Scale: 1" = 500'** **Date:** November 21, 2011 ***FINAL***




0 250 500 1,000 Feet

**Average Speed - miles per hour (MPH)**

123 — 10 - 20 MPH | 20 - 30 MPH | 30 - 40 MPH | 40 - 50 MPH | > 50 MPH

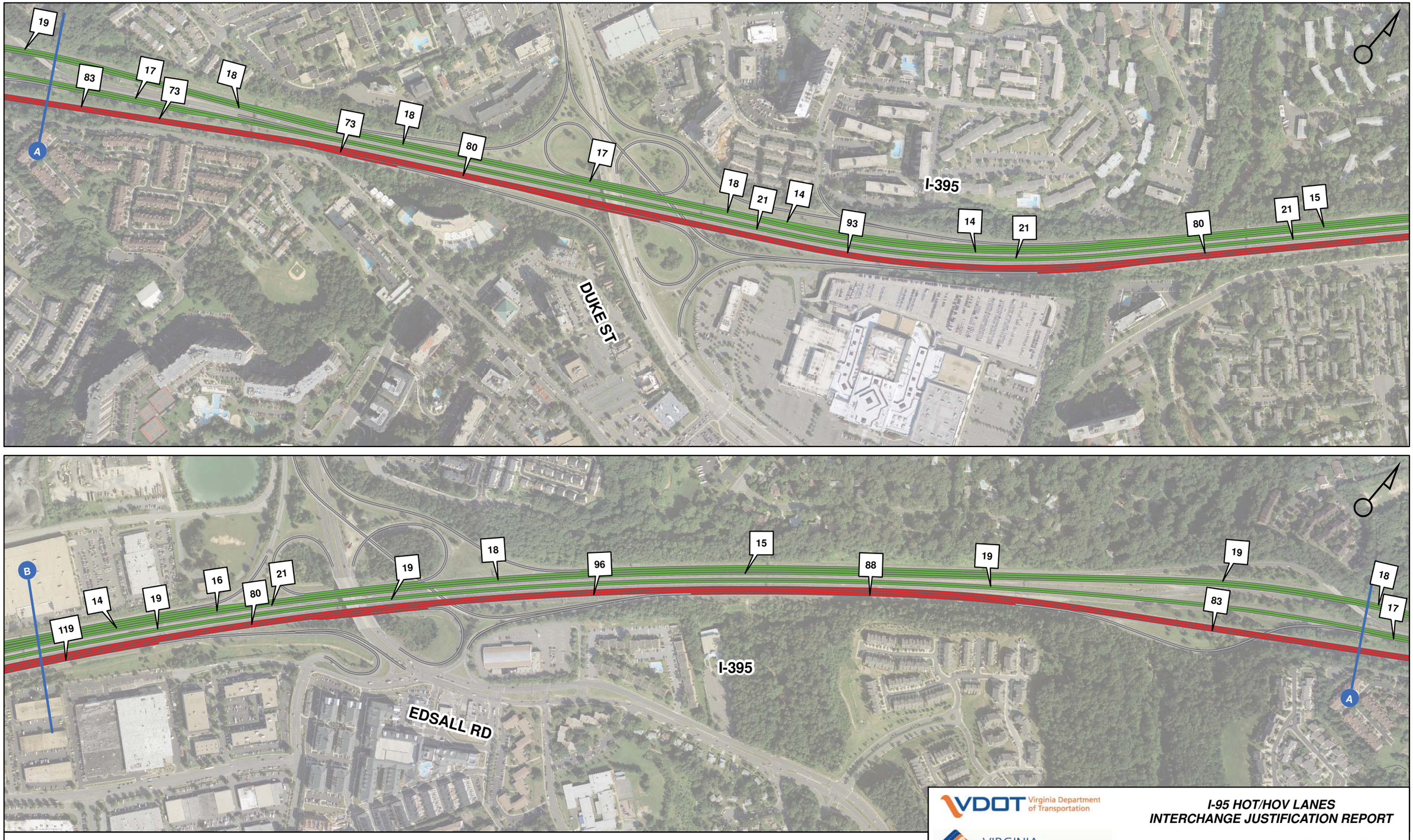
VDOT Virginia Department of Transportation

VIRGINIA MEGAPROJECTS

***I-95 HOT/HOV LANES***
***INTERCHANGE JUSTIFICATION REPORT***

***2018 NO BUILD AM - AVERAGE SPEED***
***GARRISONVILLE RD INTERCHANGE***

**Figure: 9-5 K** | **Scale: 1" = 500'** | **Date:** November 21, 2011 | ***FINAL***




VDOT Virginia Department of Transportation

VIRGINIA MEGAPROJECTS

**I-95 HOT/HOV LANES**
**INTERCHANGE JUSTIFICATION REPORT**

**2018 NO BUILD AM - LEVEL OF SERVICE**
**DUKE ST TO EDSALL RD**

| Figure: 9-6 A | Scale: 1" = 500' | Date: November 21, 2011 | FINAL |
|---|---|---|---|