I-95 HOT HOV LANES
INTERCHANGE JUSTIFICATION REPORT

2035 BUILD PM - AVERAGE SPEED
FAIRFAX COUNTY PKWY TO LORTON RD

Date: November 21, 2011

Figure: 9-19 D
Scale: 1" = 500'

Average Speed - miles per hour (MPH)

0 500 1,000 Feet

10 - 20 MPH
20 - 30 MPH
30 - 40 MPH
40 - 50 MPH
> 50 MPH
I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT
2035 BUILD PM - AVERAGE SPEED
US 1 TO GORDON BLVD

Average Speed - miles per hour (MPH)

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

Date: November 21, 2011

Figure: 9-19 E Scale: 1" = 500'

RICHMOND HWY
GORDON BLVD
INTERCHANGE JUSTIFICATION REPORT

Date: November 21, 2011

Average Speed - miles per hour (MPH)

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

I-95 HOT/HOV LANES
PRINCE WILLIAM PKWY TO DALE BLVD

Figure: 9-19 F
Scale: 1" = 500'

2035 BUILD PM - AVERAGE SPEED
PRINCE WILLIAM PKWY TO DALE BLVD

PRINCE WILLIAM PKWY
OPITZ BLVD
DALE BLVD

0 250 500 1,000 Feet
I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT
2035 BUILD PM - AVERAGE SPEED
JOPLIN RD TO RUSSEL RD

Average Speed - miles per hour (MPH)

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

JOPLIN RD

I-95

RUSSEL RD

Date: November 21, 2011
I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT

Date: November 21, 2011

Figure: 9-20 B  Scale: 1\" = 500\'
I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT
2035 BUILD PM LEVEL OF SERVICE
I-95/I-395/I-495 INTERCHANGE TO
FAIRFAX COUNTY PKWY

Level of Service

Density - vehicles per hour per lane

Figure: 9-20 C  Scale: 1" = 500'

Date: November 21, 2011

FINAL
I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT

2035 BUILD PM LEVEL OF SERVICE
US 1 TO GORDON BLVD

Density - vehicles per hour per lane

Level of Service

0 250 500 1,000 Feet

Figure: 9-20 E  Scale: 1" = 500'

Date: November 21, 2011

FINAL
2035 BUILD PM LEVEL OF SERVICE DUMFRIES RD INTERCHANGE

Date: November 21, 2011

Figure: 9-20 H  Scale: 1" = 500'

Distribution - vehicles per hour per lane  
Level of Service

0 250 500 1,000 Feet

123

Density - vehicles per hour per lane

A - C  D  E  F

Levels of Service

DUMFRIES RD I-95 I-95

I-95 HOT/HOV LANES INTERCHANGE JUSTIFICATION REPORT

Final
I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT
2035 BUILD PM LEVEL OF SERVICE
JOPLIN RD TO RUSSEL RD

Density - vehicles per hour per lane
Level of Service

<table>
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<th>123</th>
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</thead>
</table>

Figure: 9-20 I
Scale: 1" = 500'
Date: November 21, 2011

JOPLIN RD
I-95
I-95
RUSSELL RD

0 250 500 1,000 Feet

A - C
D
E
F

November 21, 2011
2035 BUILD PM LEVEL OF SERVICE
RUSSEL RD TO GARRISONVILLE RD

I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT

Date: November 21, 2011

Figure: 9-20 J
Scale: 1" = 500'

Level of Service

Density - vehicles per hour per lane

<table>
<thead>
<tr>
<th>Level</th>
<th>A - C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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Ramp Crashes by Severity
Exit 152

Ramp Crashes by Collision Type
Exit 152

Crash Severity
- Fatal
- Serious Injury
- Minor Injury
- PDO

Collision Type
- Head on and sideswipe same direction
- Head on and sideswipe opposite direction
- Rear end and sideswipe same direction
- Rear end and sideswipe opposite direction
- Interal
- Fixed object
- Non-Collision
- Other and Unknown

Segment Break Point
Project Build Line
Interstate
Road
2009 5% Report Intersections
2009 5% Report Segments

Ramp

I-95 HOT/HOV LANES INTERCHANGE JUSTIFICATION REPORT
CRASH LOCATION, TYPE AND SEVERITY

Figure 10-1 Shred 4 of 14
November 21, 2011
Existing Land Use

Legend
- Project Limit
- Study Area
- Roadways
- High Intensity Developed
- Medium Intensity Developed
- Low Intensity Developed
- Undeveloped
- Mixed Vegetation
- Waters & Wetlands
I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT

Date: November 21, 2011

Existing Land Use

Legend
- Project Limit
- Study Area
- Roadways
- High Intensity Developed
- Medium Intensity Developed
- Low Intensity Developed
- Undeveloped
- Mixed Vegetation
- Waters & Wetlands

National Oceanographic and Atmospheric Administration, 2005
I-95 HOT/HOV LANES
INTERCHANGE JUSTIFICATION REPORT

Date: November 21, 2011

Legend
- Project Limit
- Study Area
- Roadways
- High Intensity Developed
- Medium Intensity Developed
- Low Intensity Developed
- Undeveloped
- Mixed Vegetation
- Waters & Wetlands

Existing Land Use

Figure: 11-1e  Scale: 1" = 500'  Date: November 21, 2011  FINAL