

3. Sensitivity Analysis of VMC Road Network for Colossus Crossing, Langstaff Extension, and Langstaff Interchange Improvements

Sc 1091 – 2006 AM Base Scenario

Sc 20013 – 2031 AM Base (with Ring Road)

Sc 20014 – 2031 AM Alternative 1

Sc 20015 – 2031 AM Alternative 2

Sc 5104 - 2006 PM Base Scenario

Sc 25013 – 2031 PM Base (with Ring Road)

Sc 25014 – 2031 PM Alternative 1

Sc 25015 – 2031 PM Alternative 2

Difference Plots – Alternative 1 v Alternative 2

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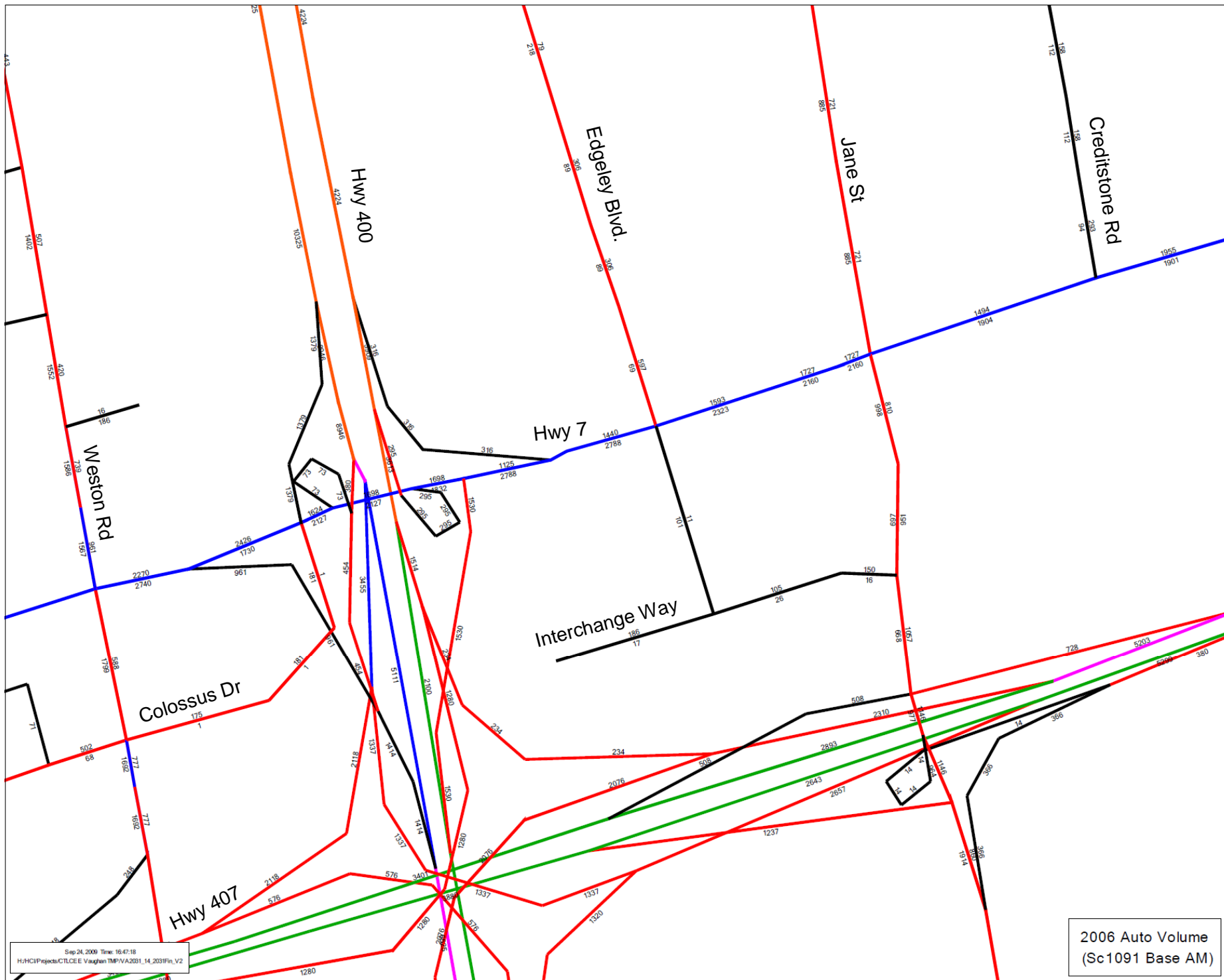
Sc 1091

2006

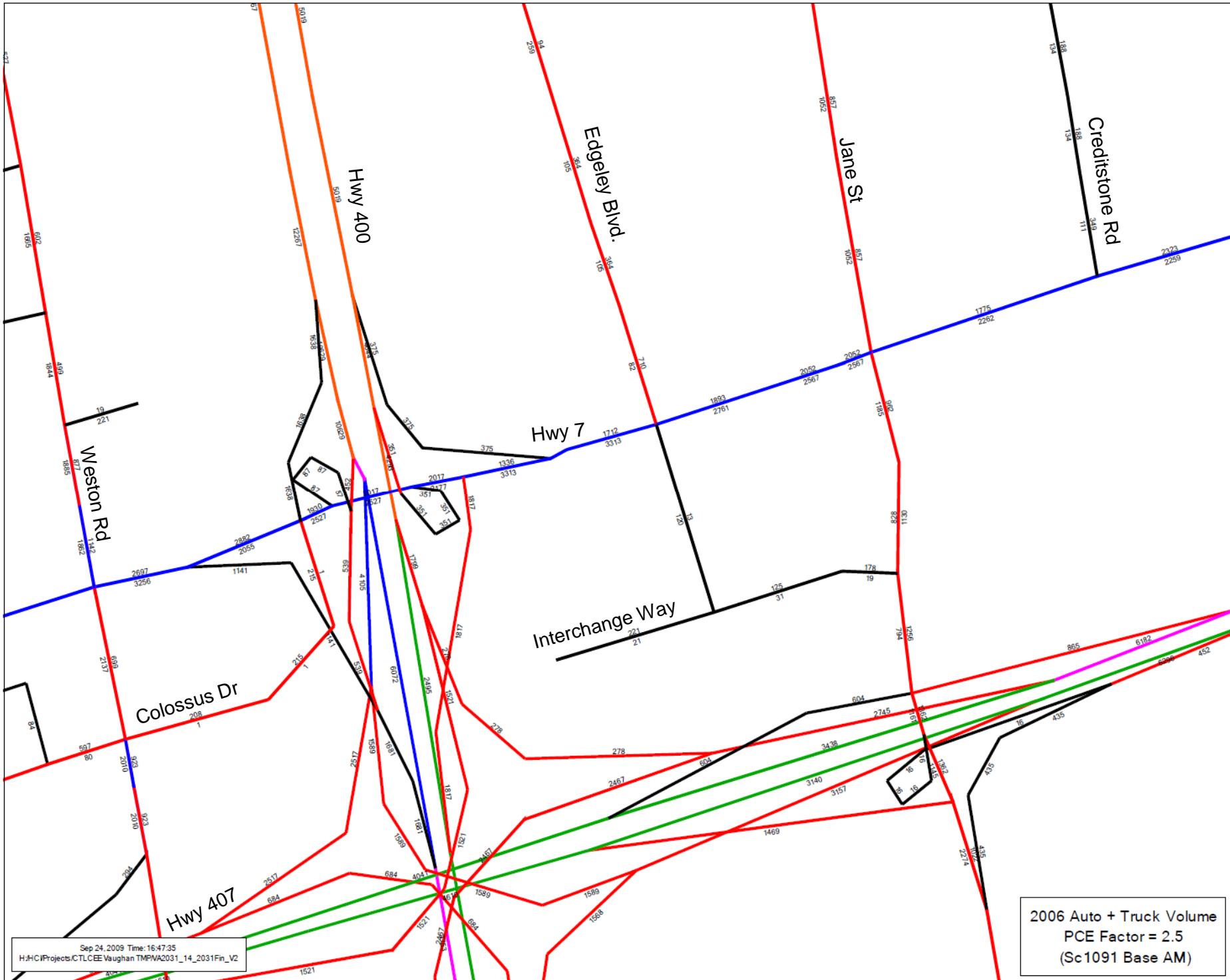
AM Peak

Base Scenario

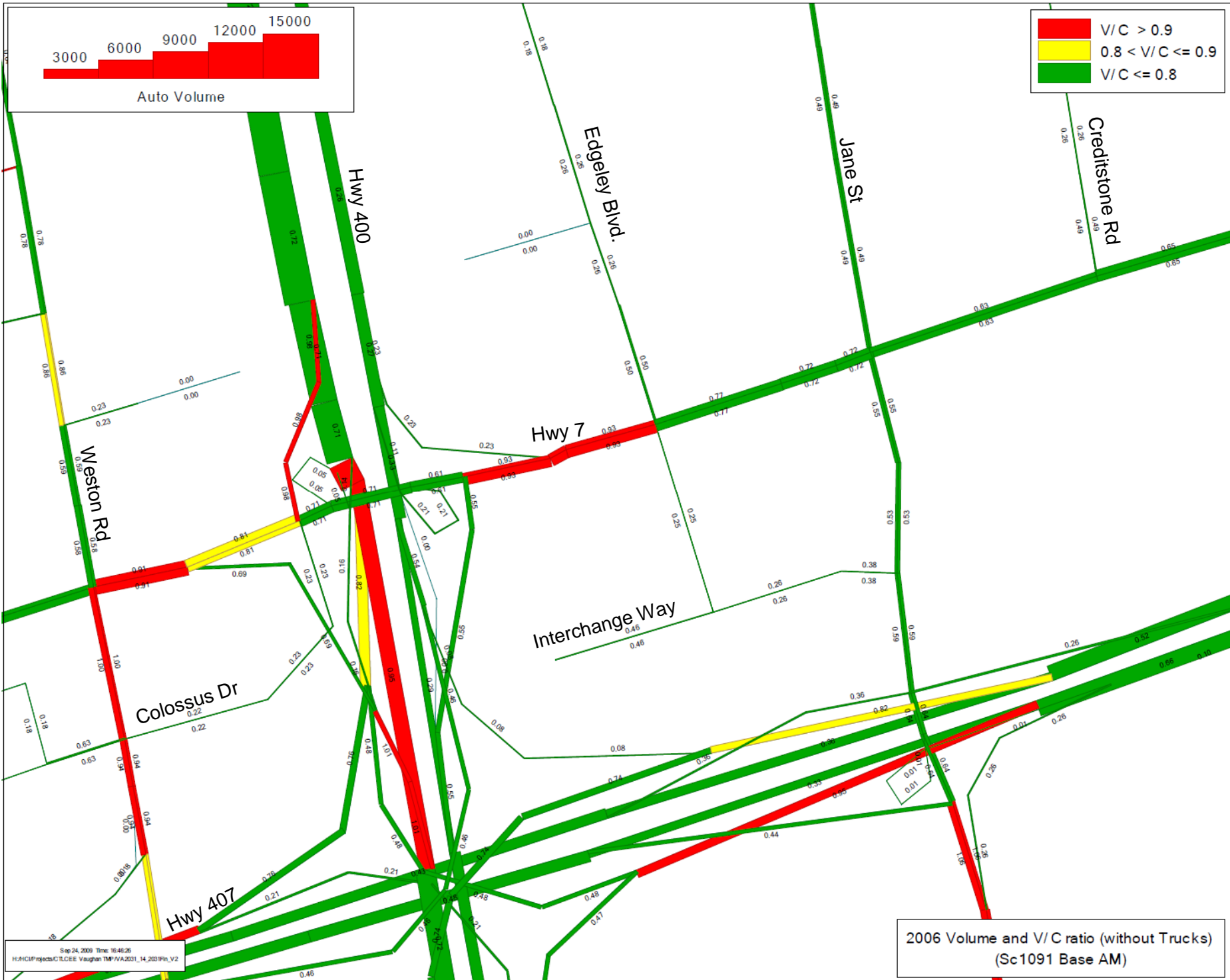
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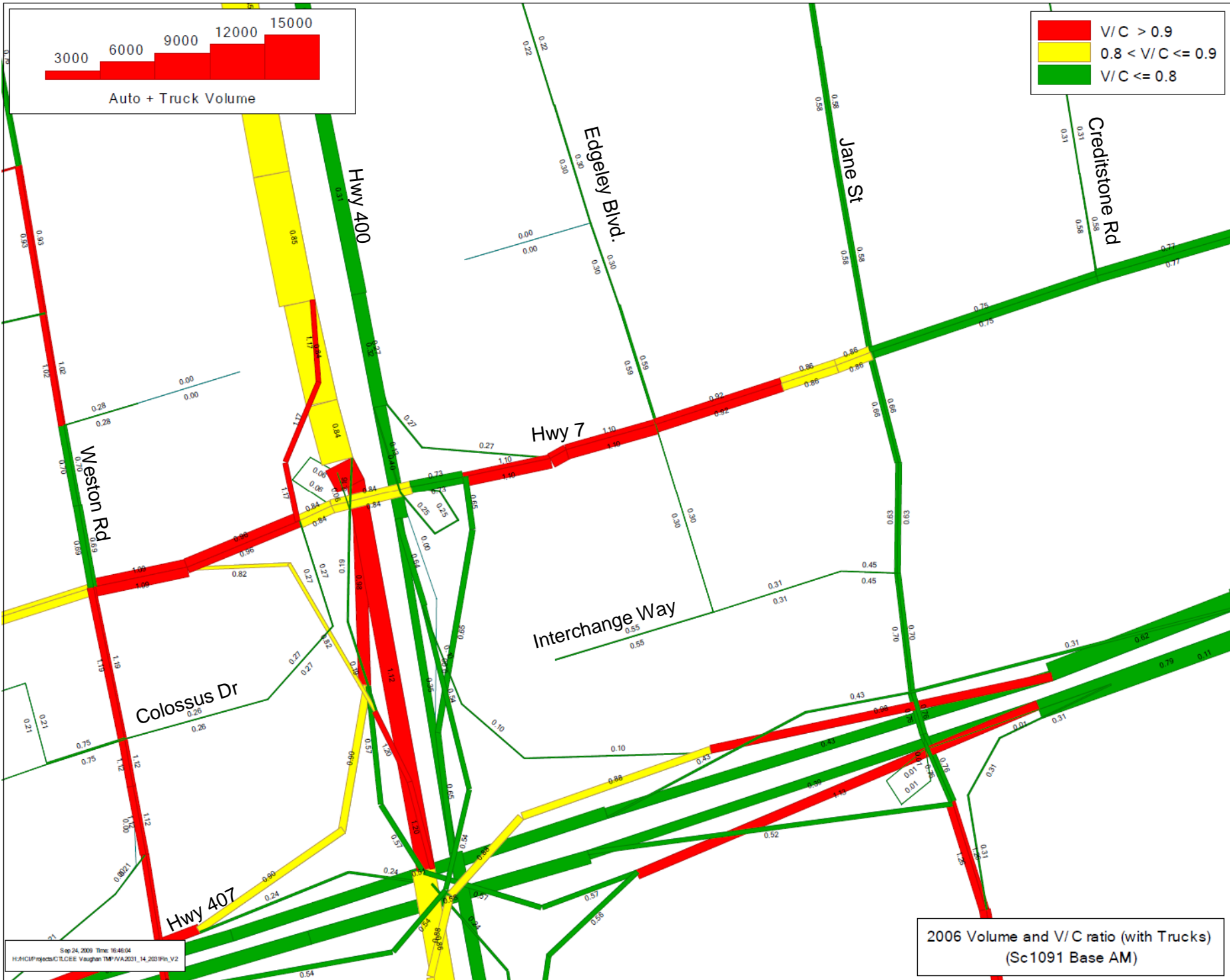
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2006 Volume and V/C ratio (without Trucks)
(Sc1091 Base AM)

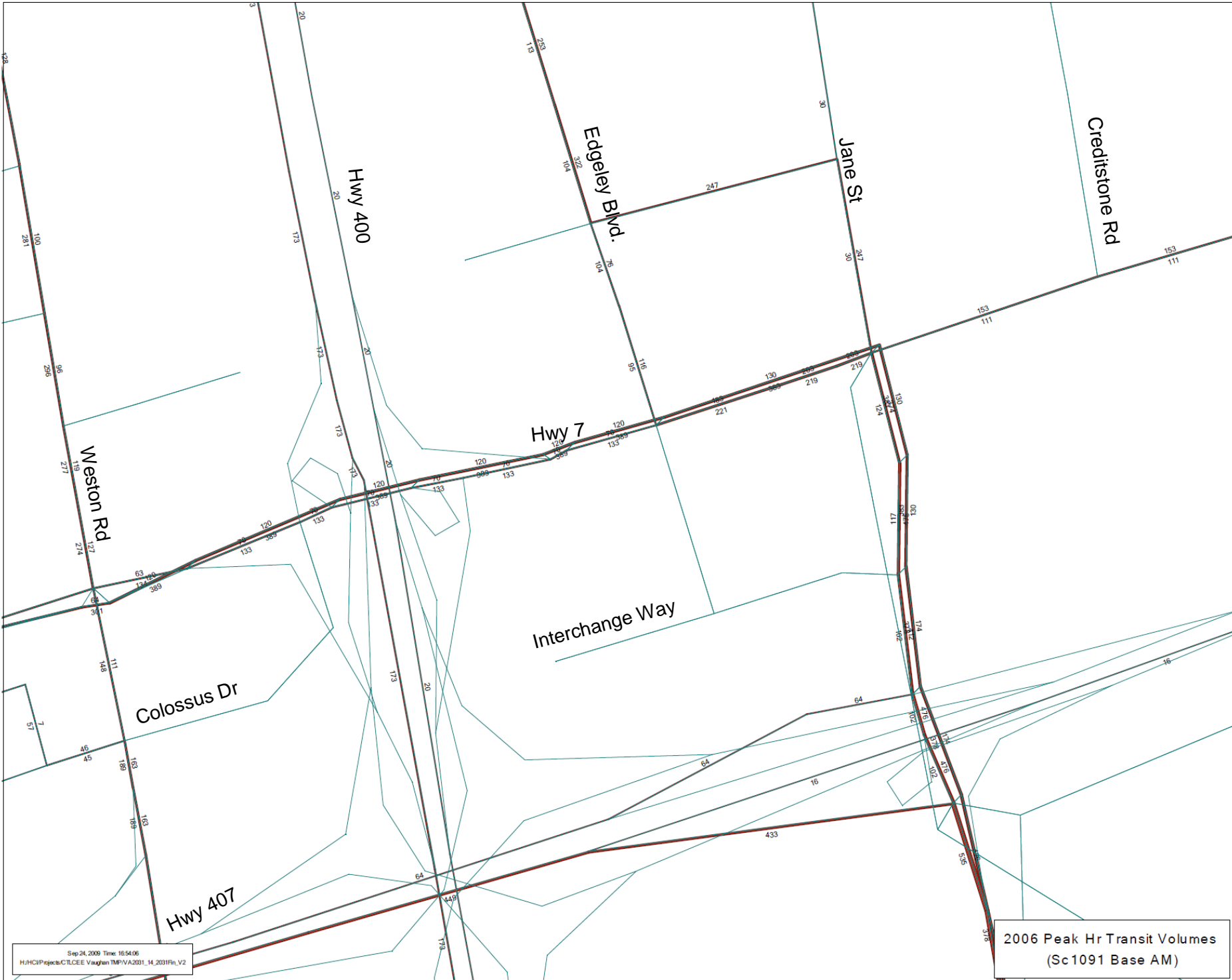
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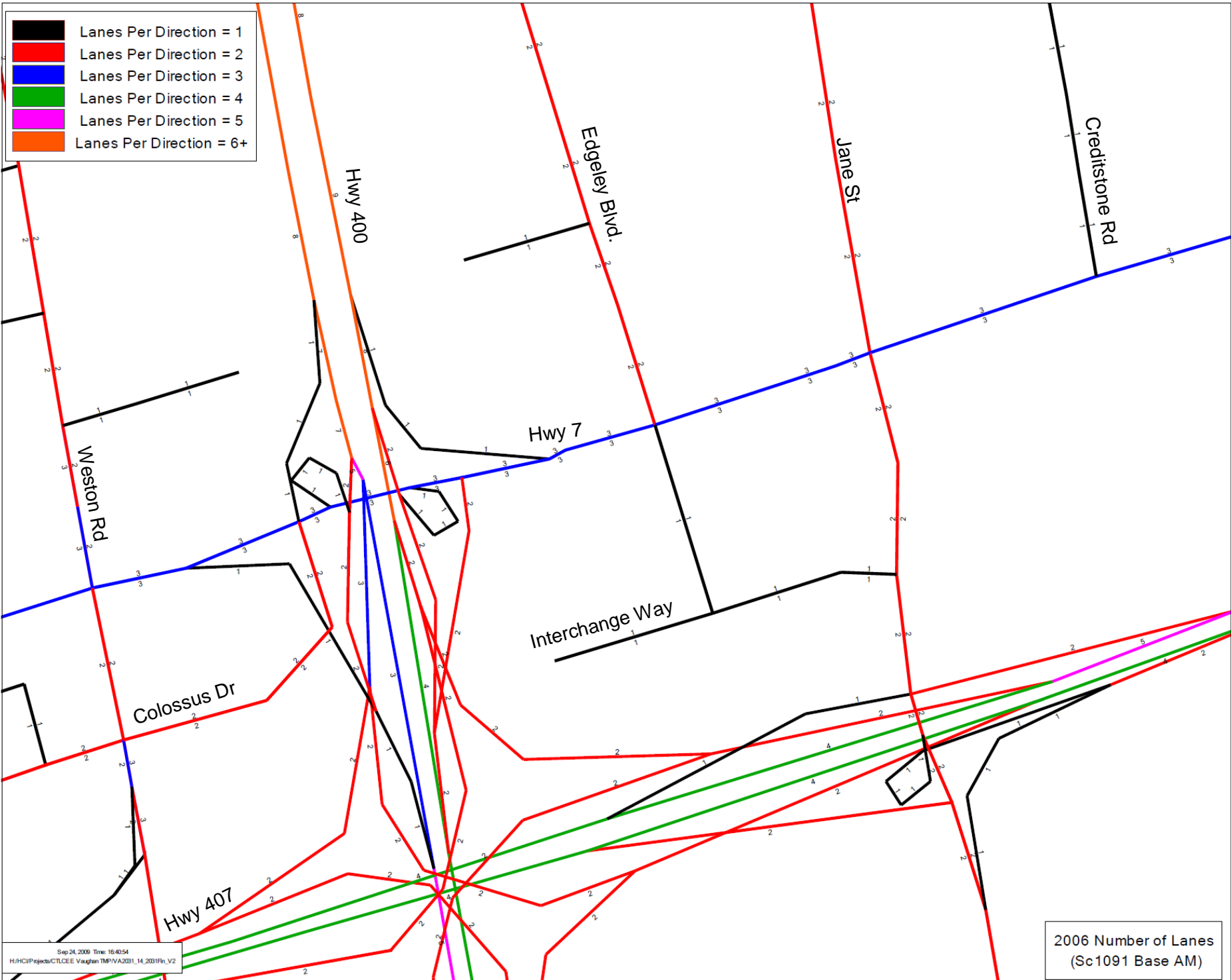
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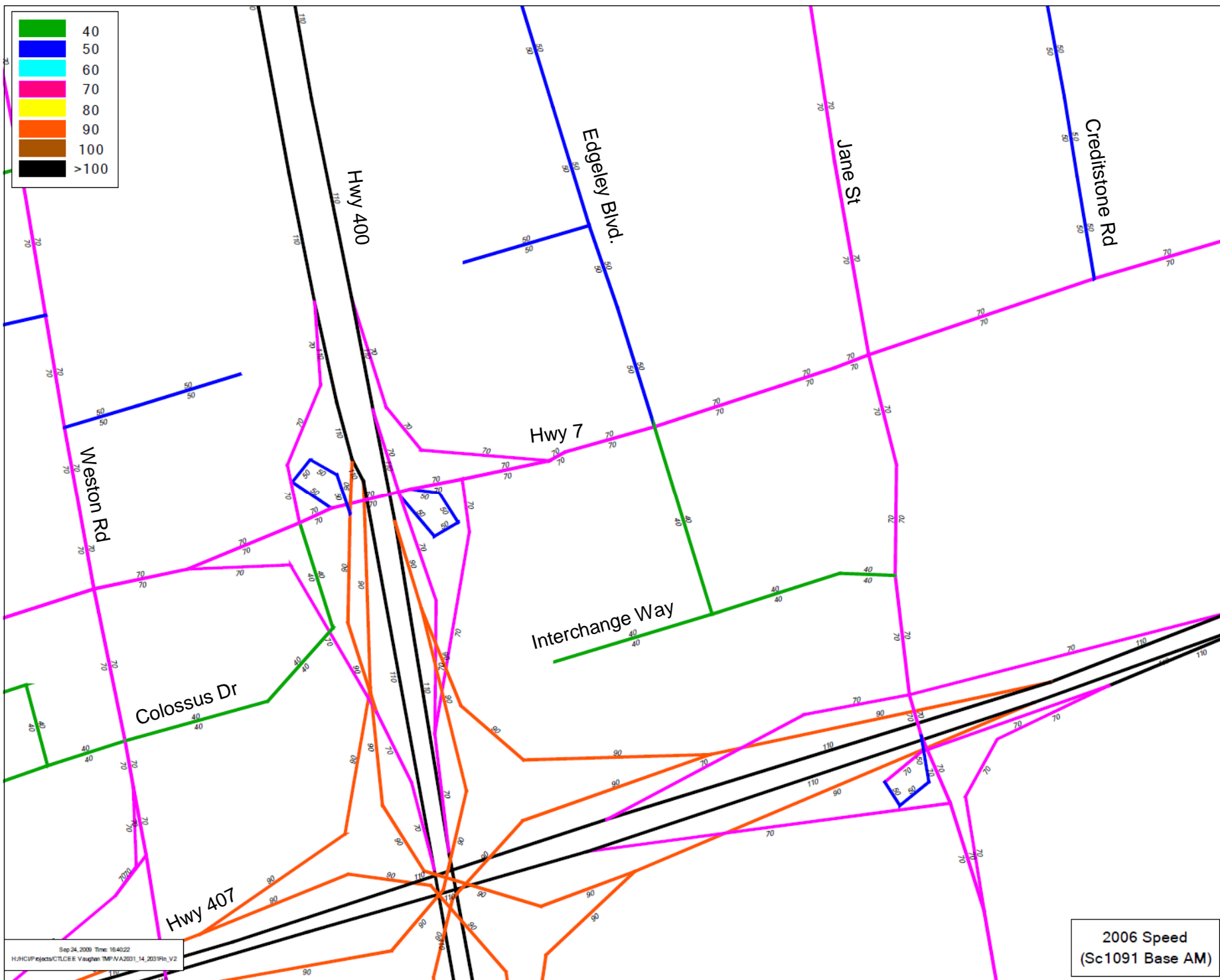
2006 Peak Hr Transit Volumes
(Sc1091 Base AM)



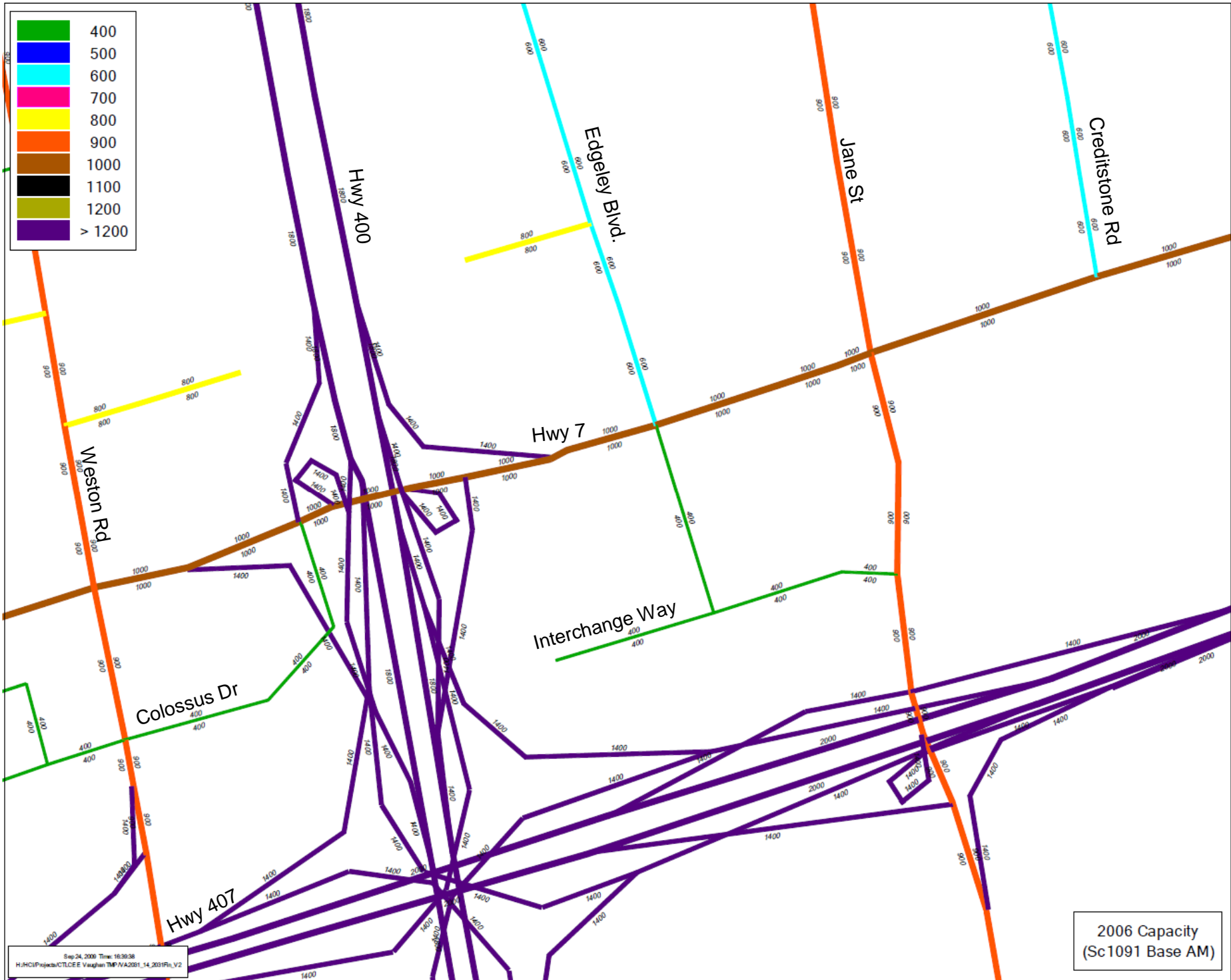
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2006 Number of Lanes
 (Sc1091 Base AM)

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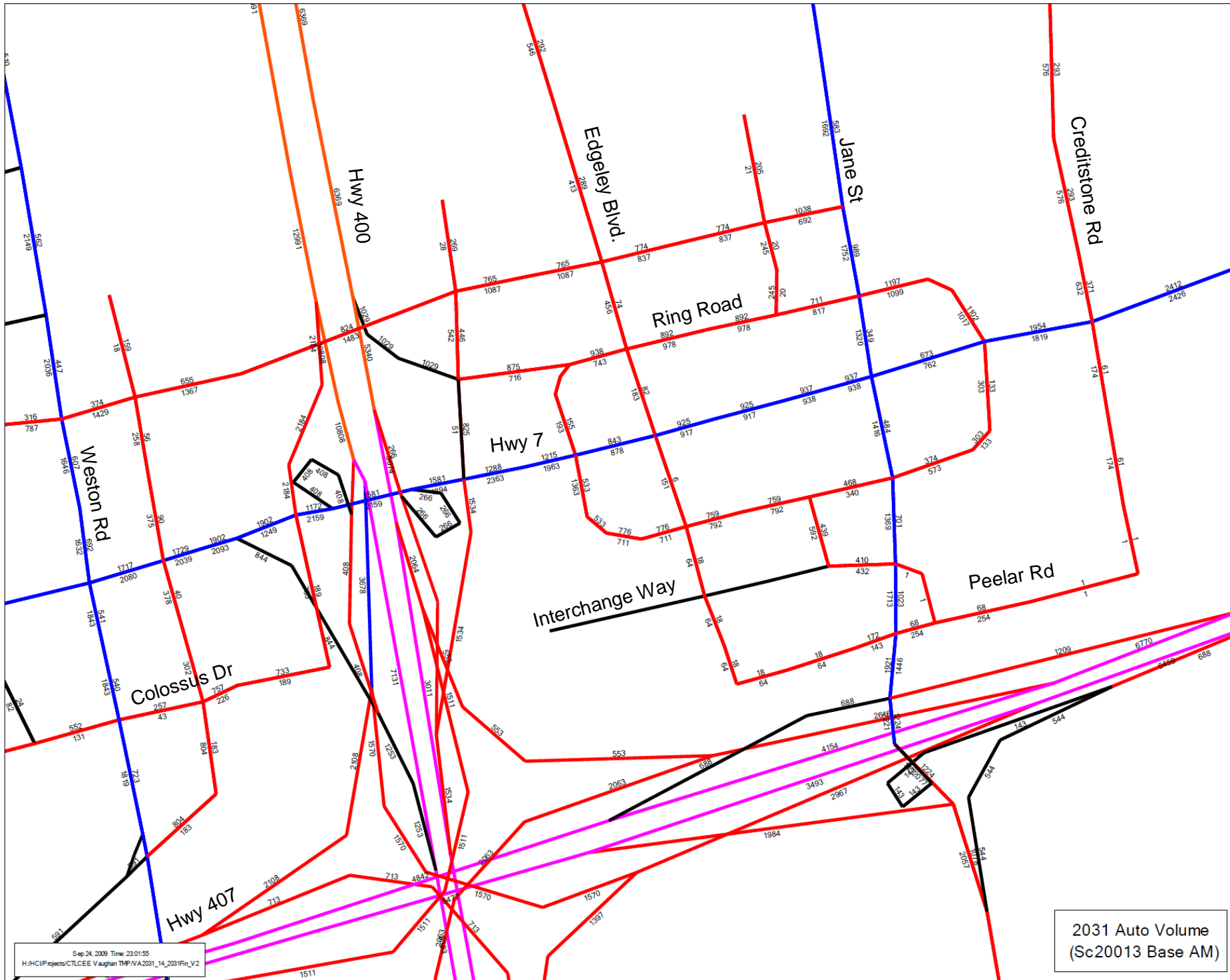
Sc 20013

2031 Horizon Year

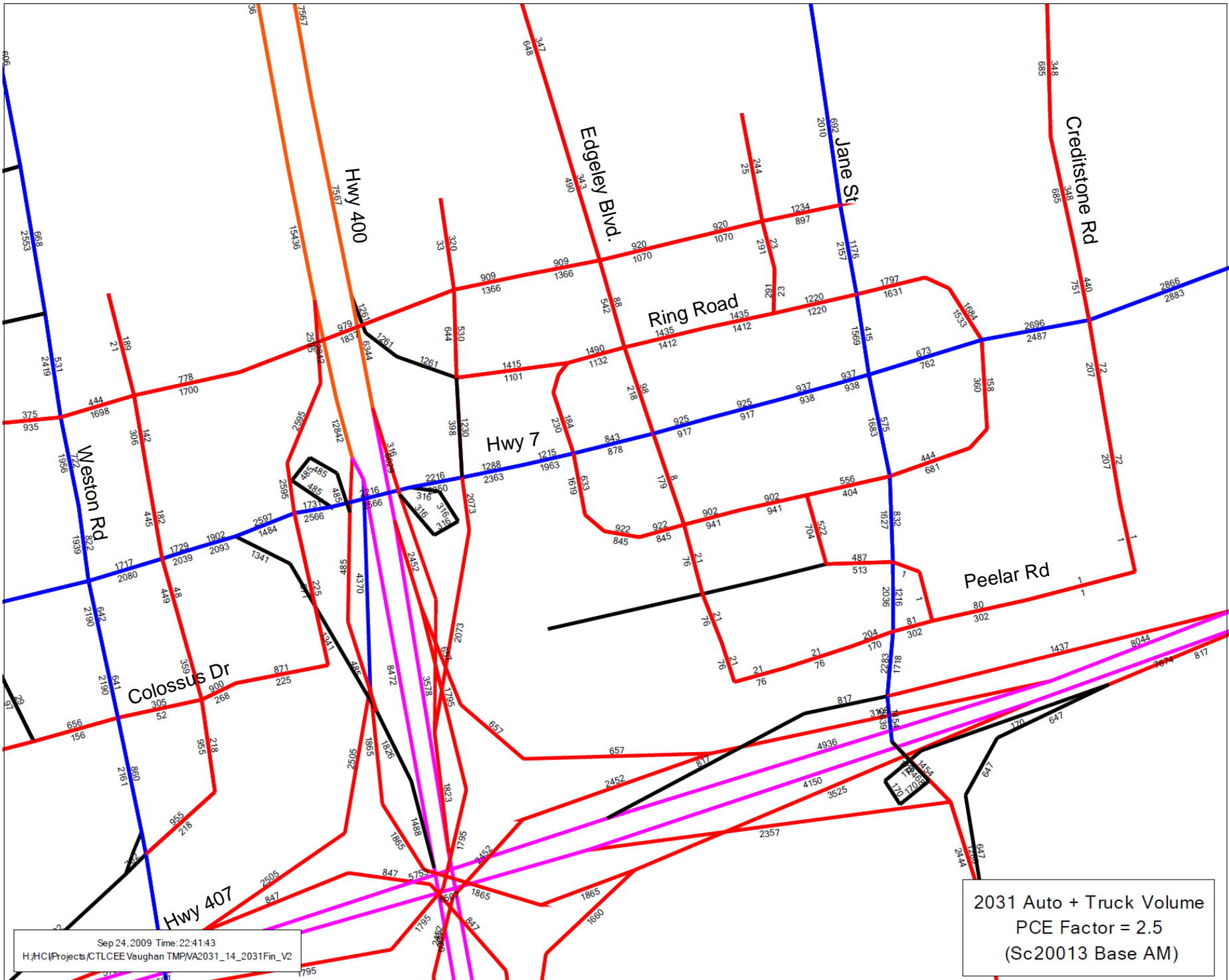
AM Peak

Base Scenario (with Ring Road)

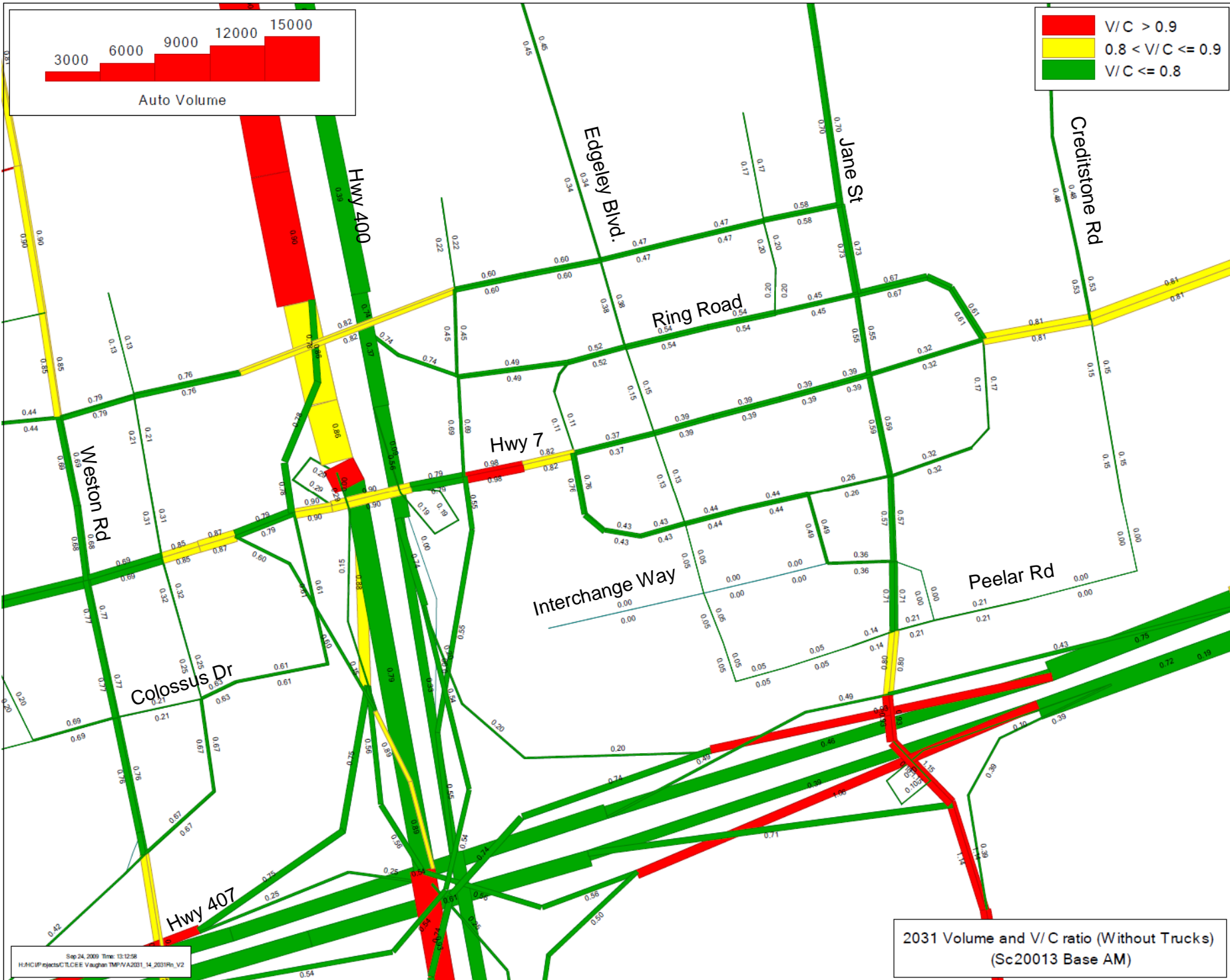
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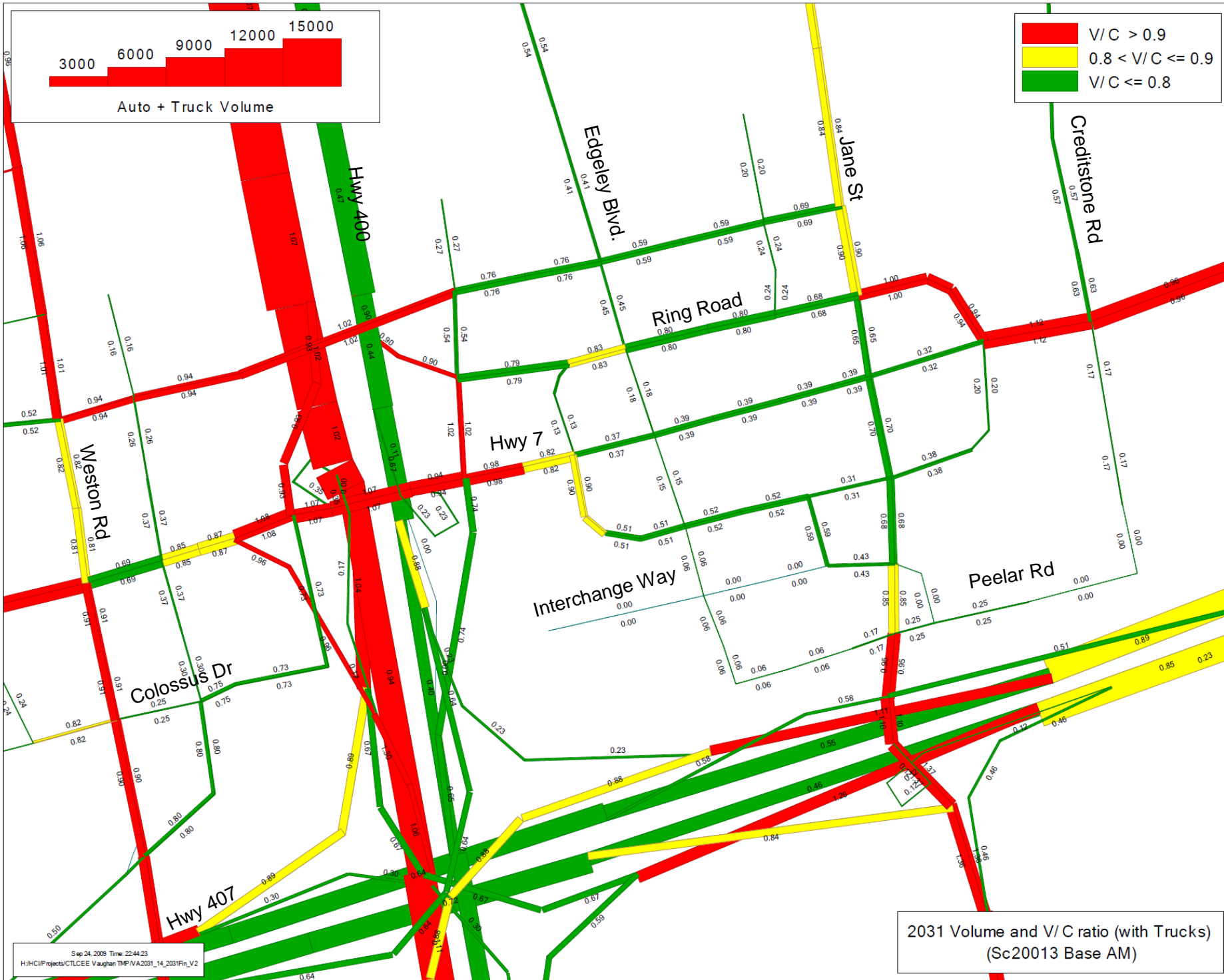
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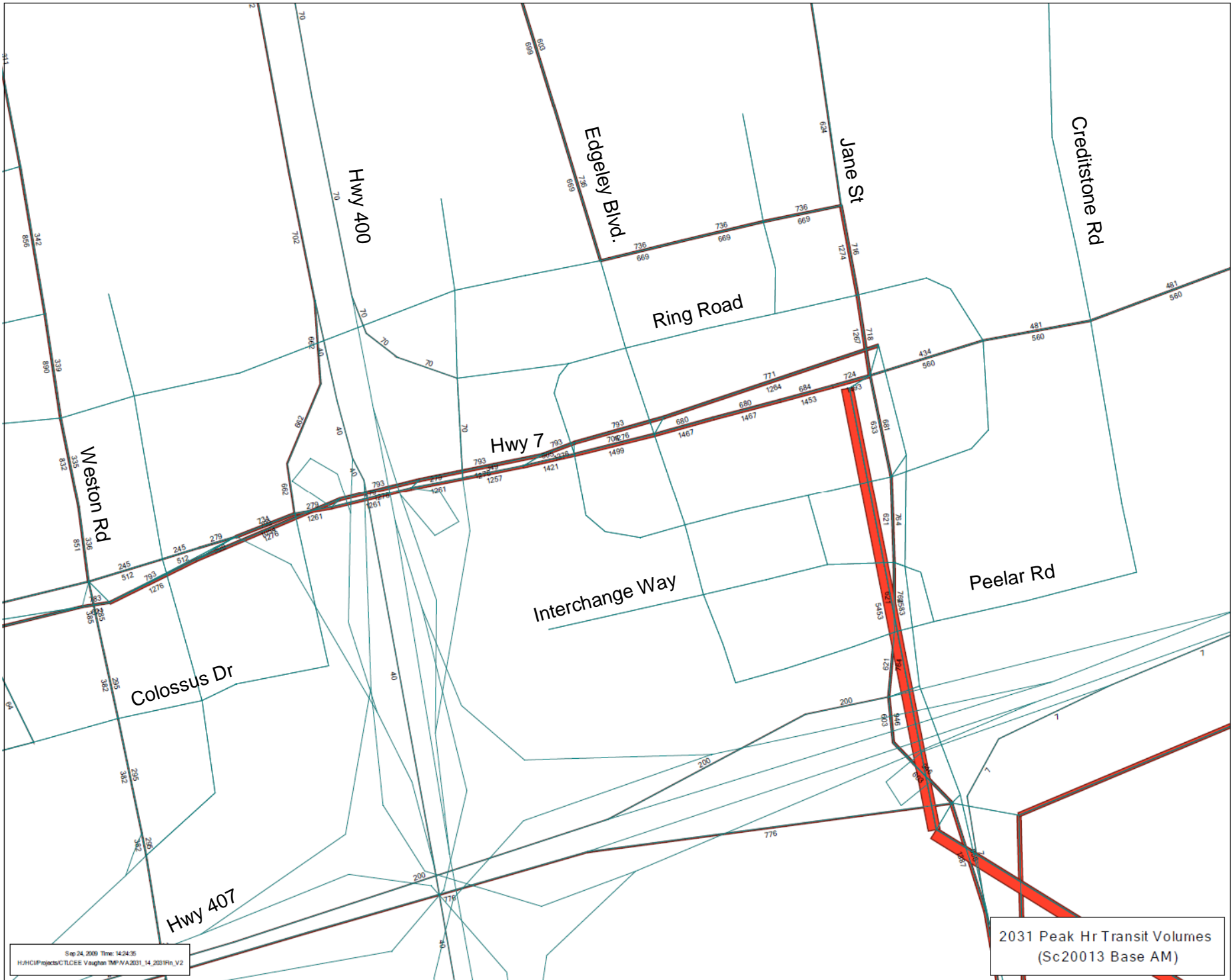
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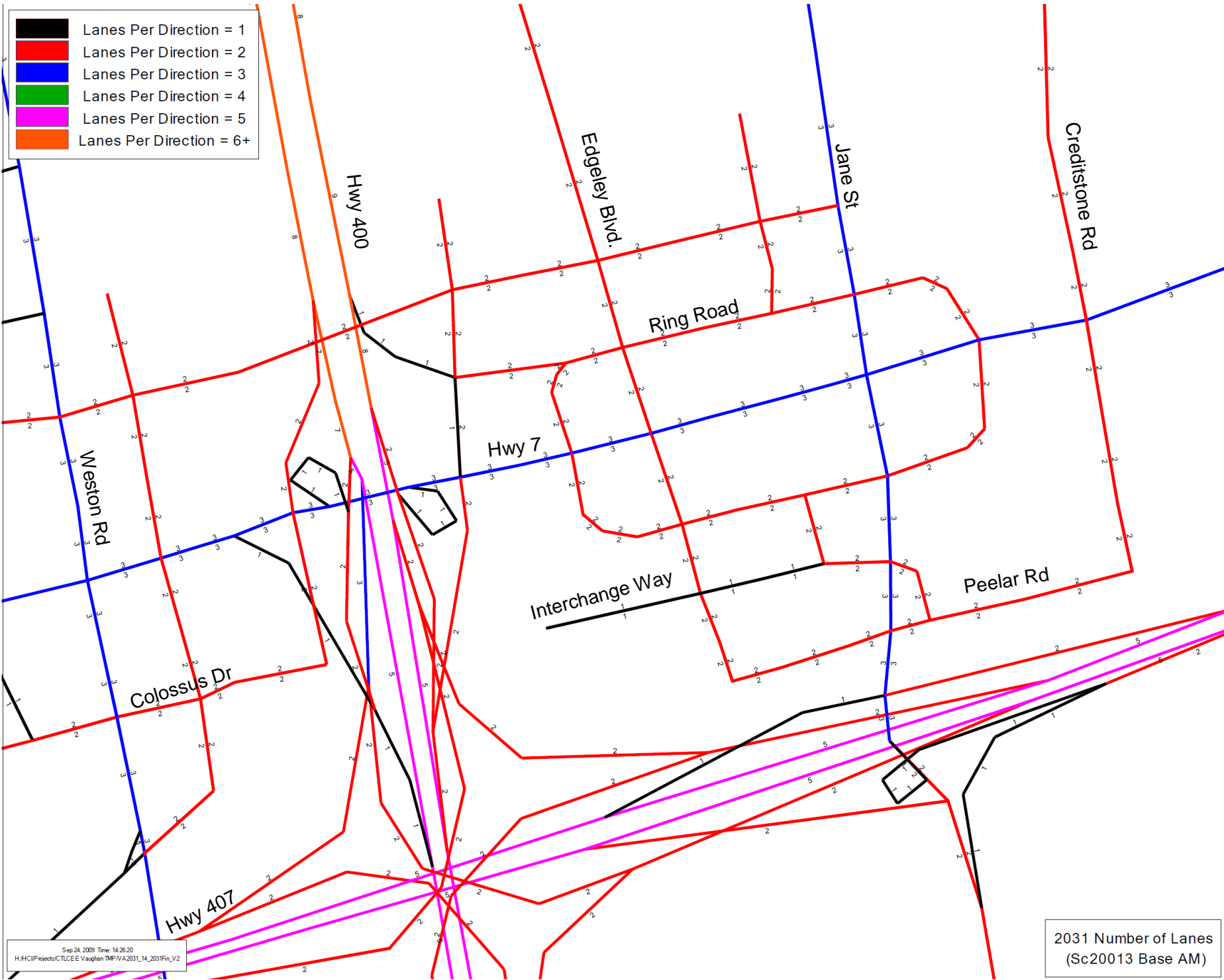
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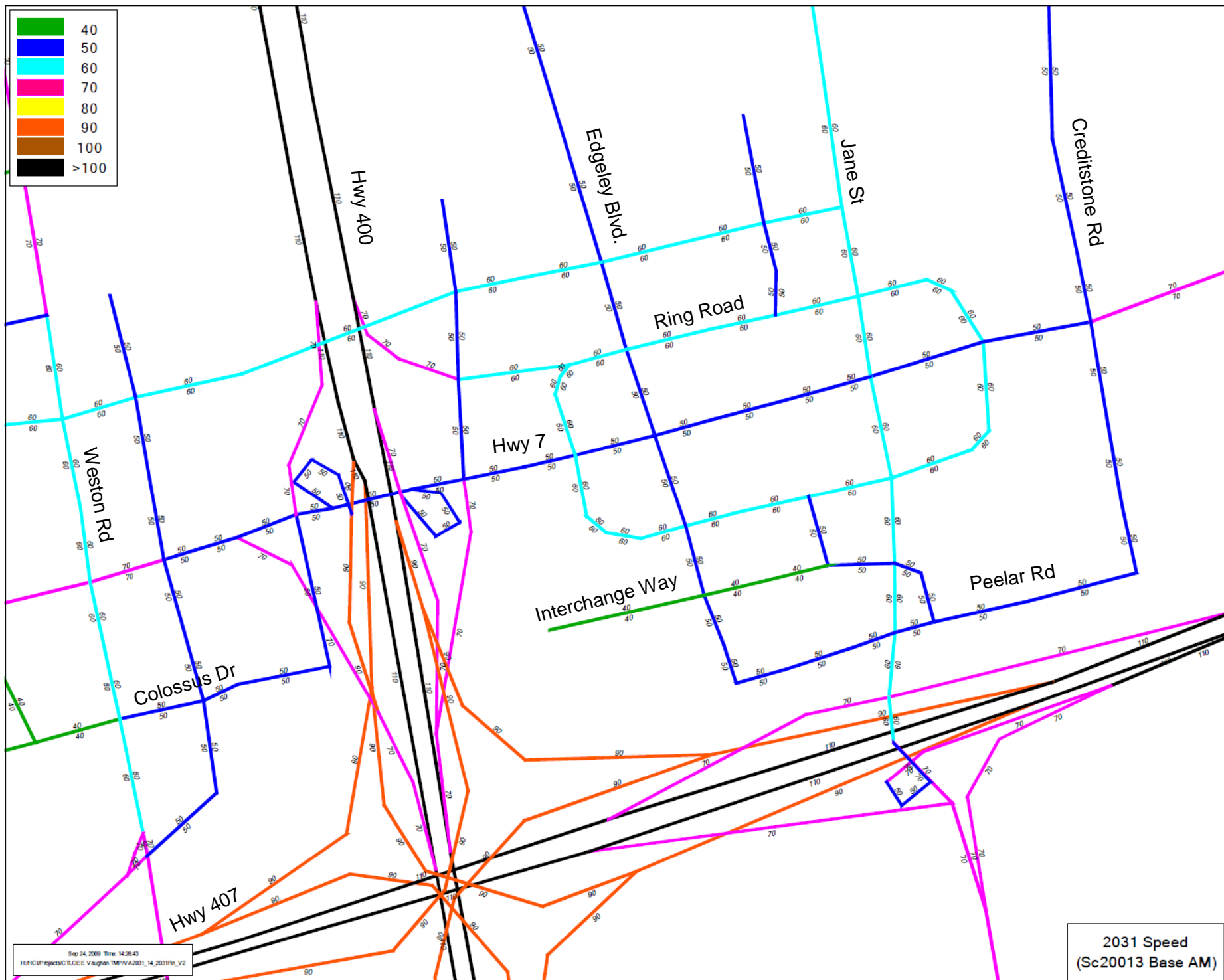
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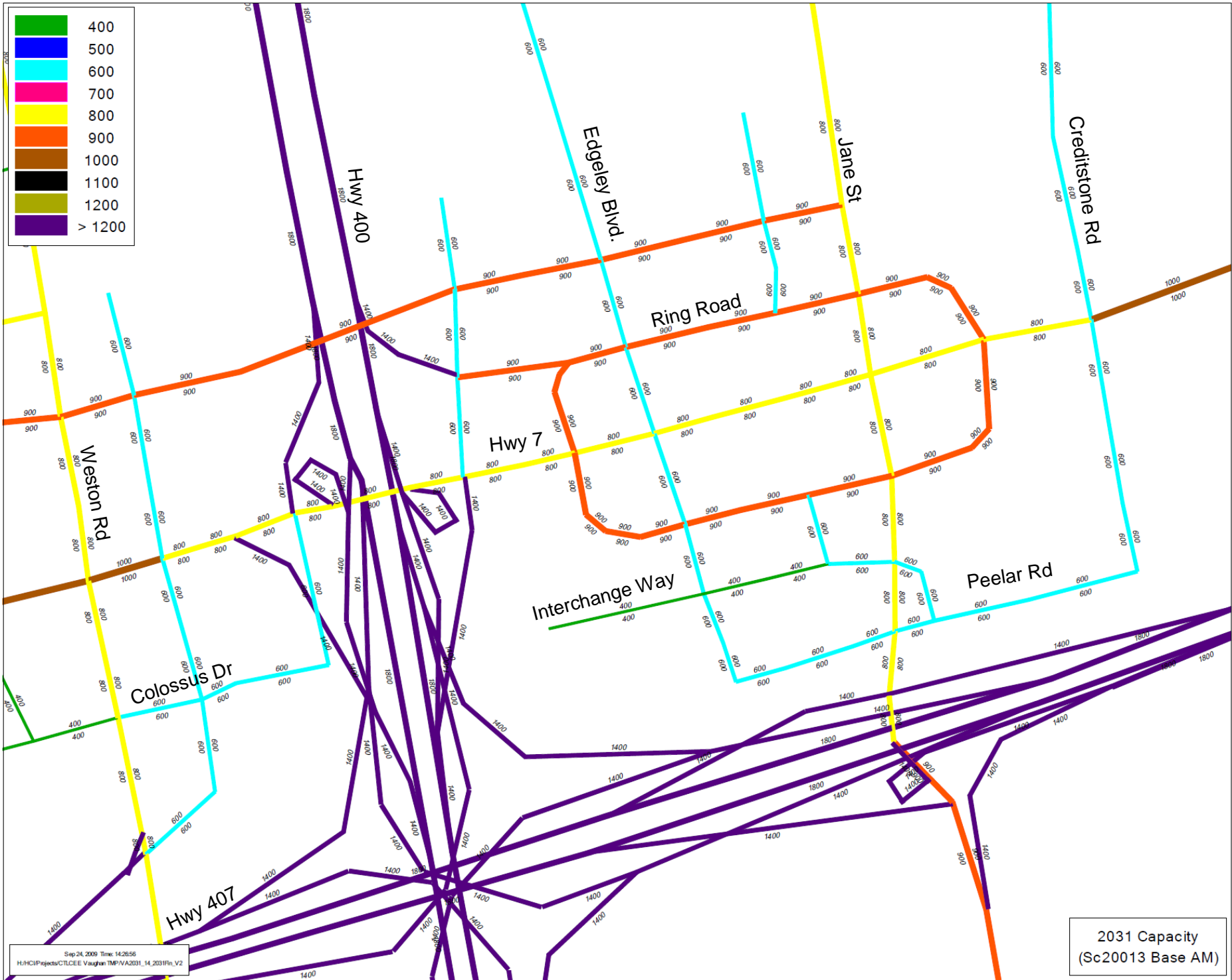
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2031 Number of Lanes
 (Sc20013 Base AM)

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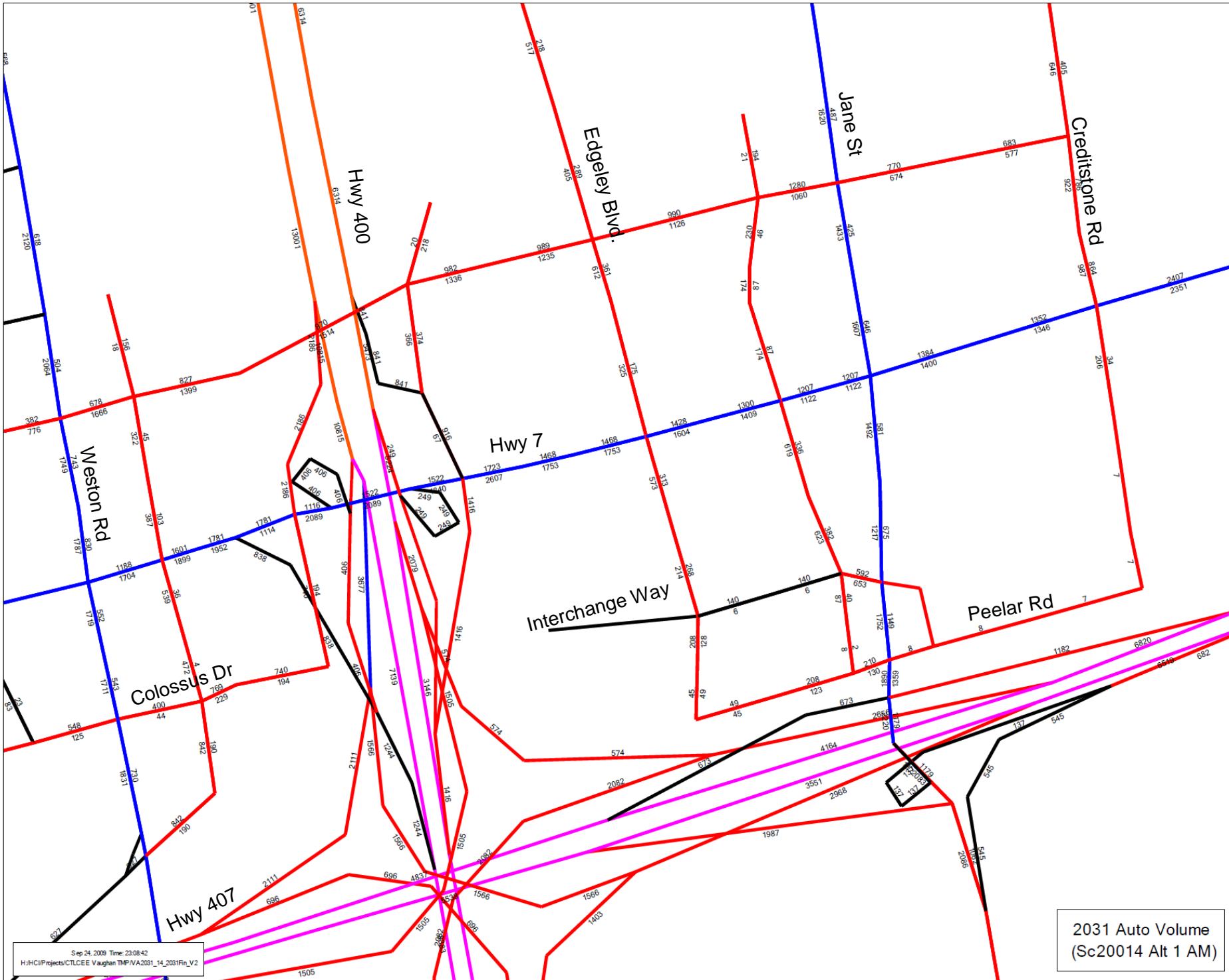
Sc 20014

Alternative 1

AM Peak

2031 Horizon Year

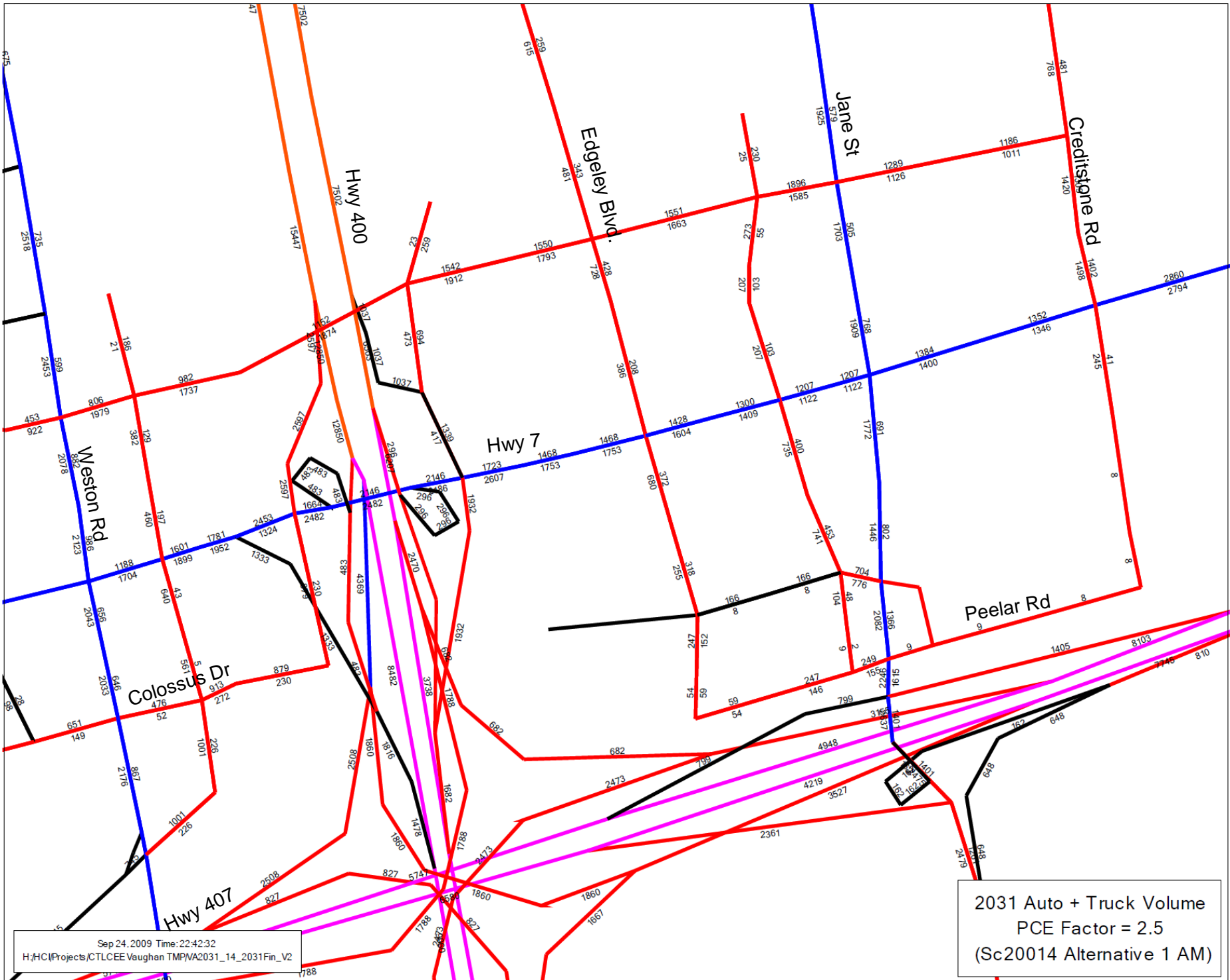
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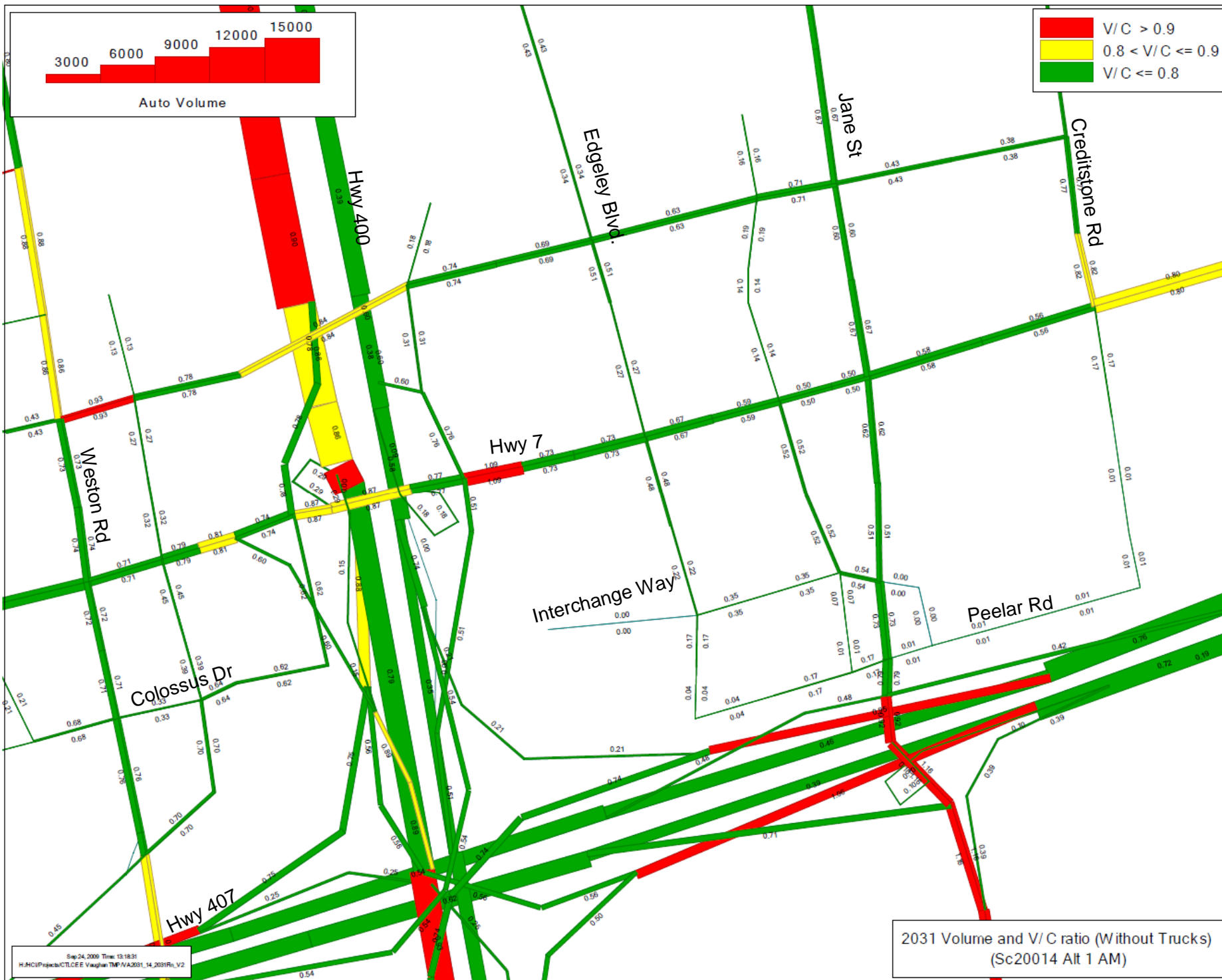
2031 Auto Volume
(Sc20014 Alt 1 AM)

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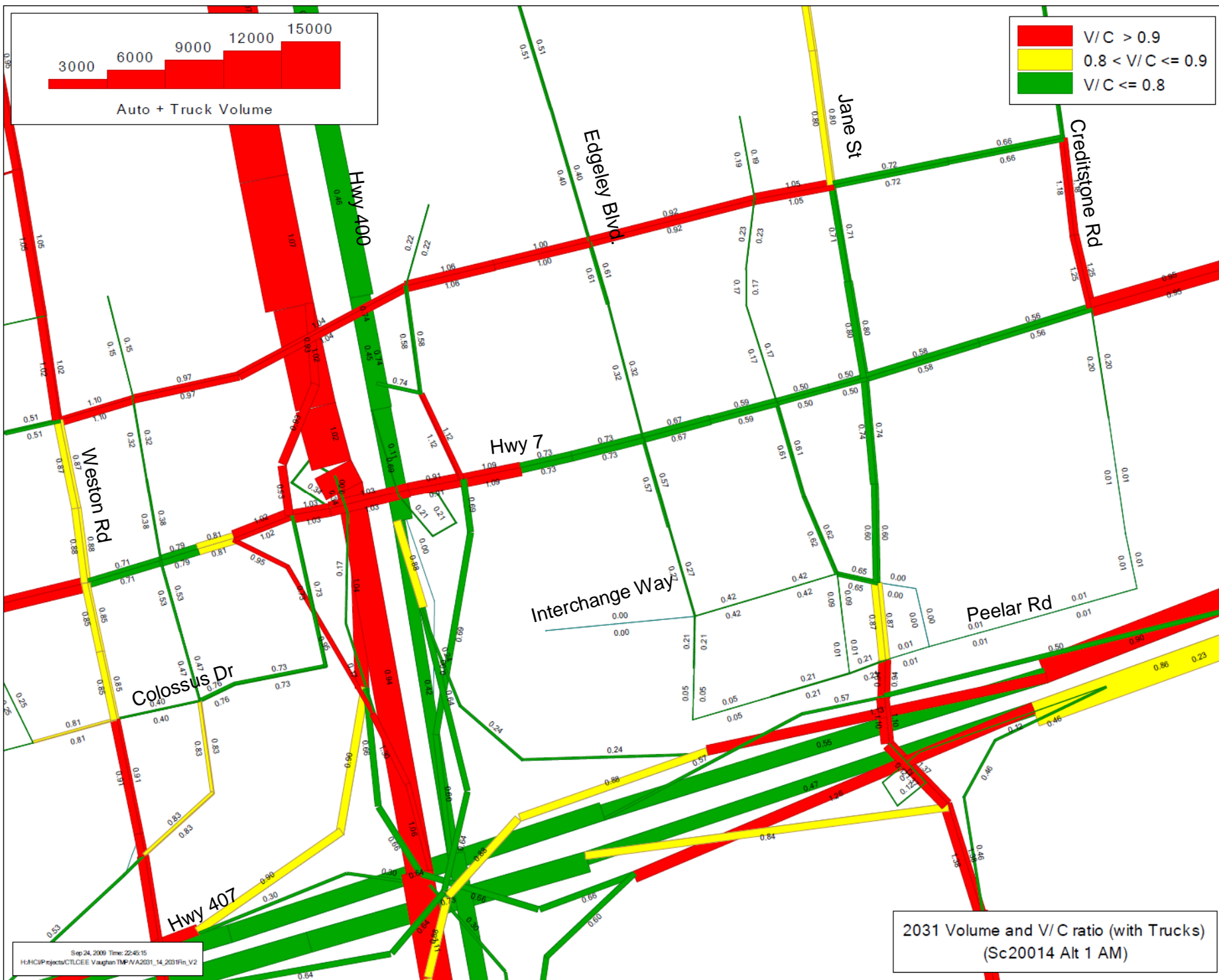
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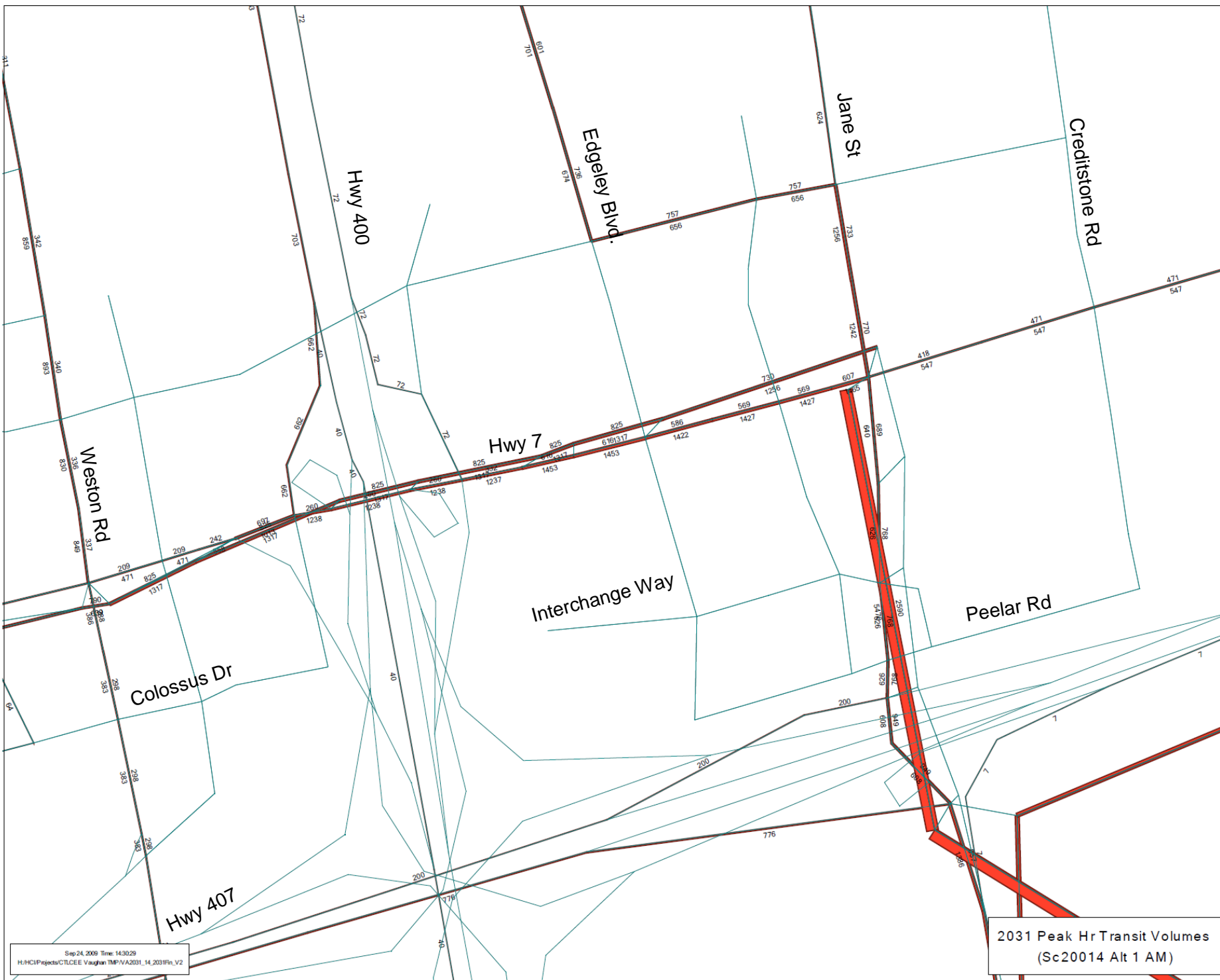
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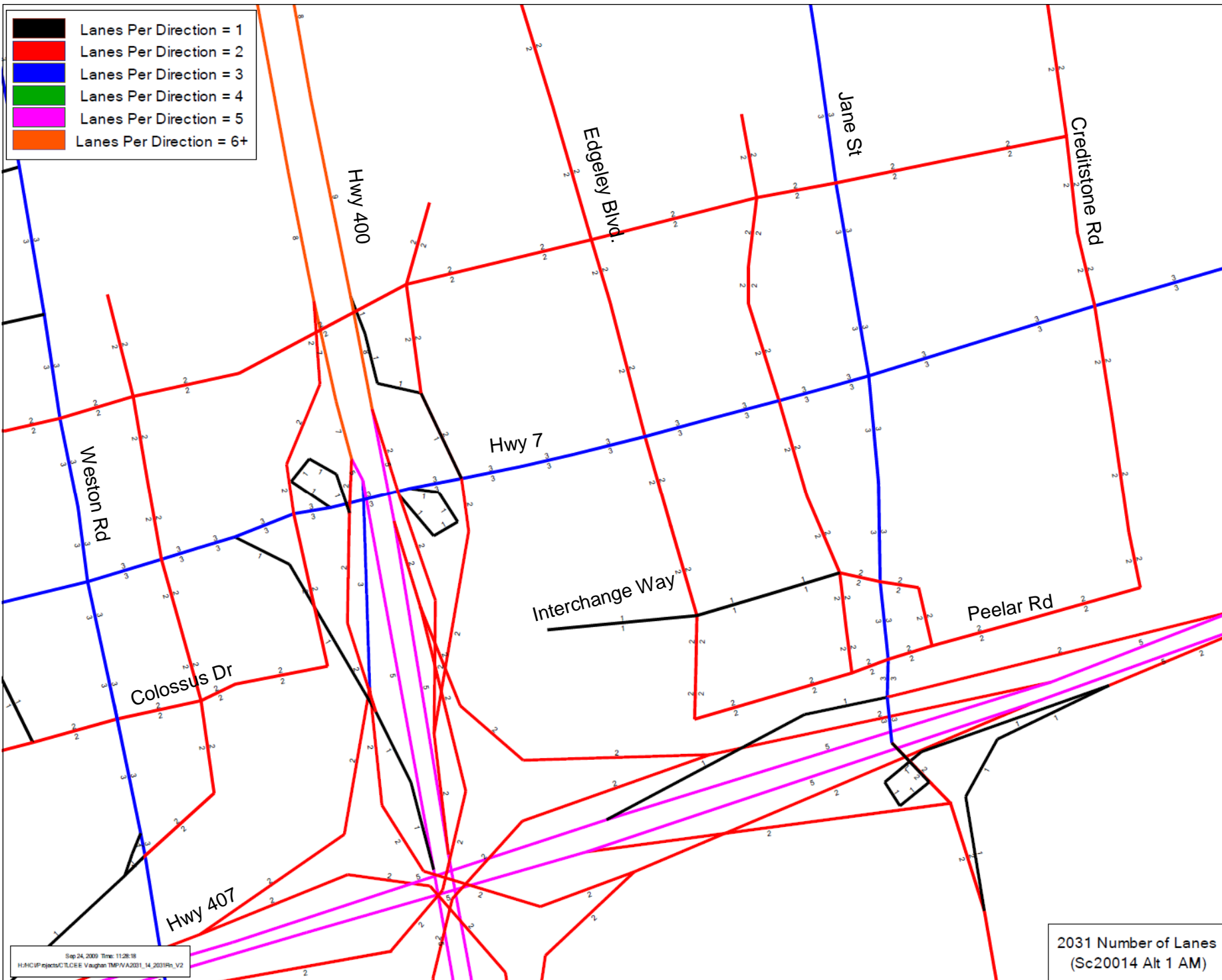
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2031 Peak Hr Transit Volumes
 (Sc20014 Alt 1 AM)

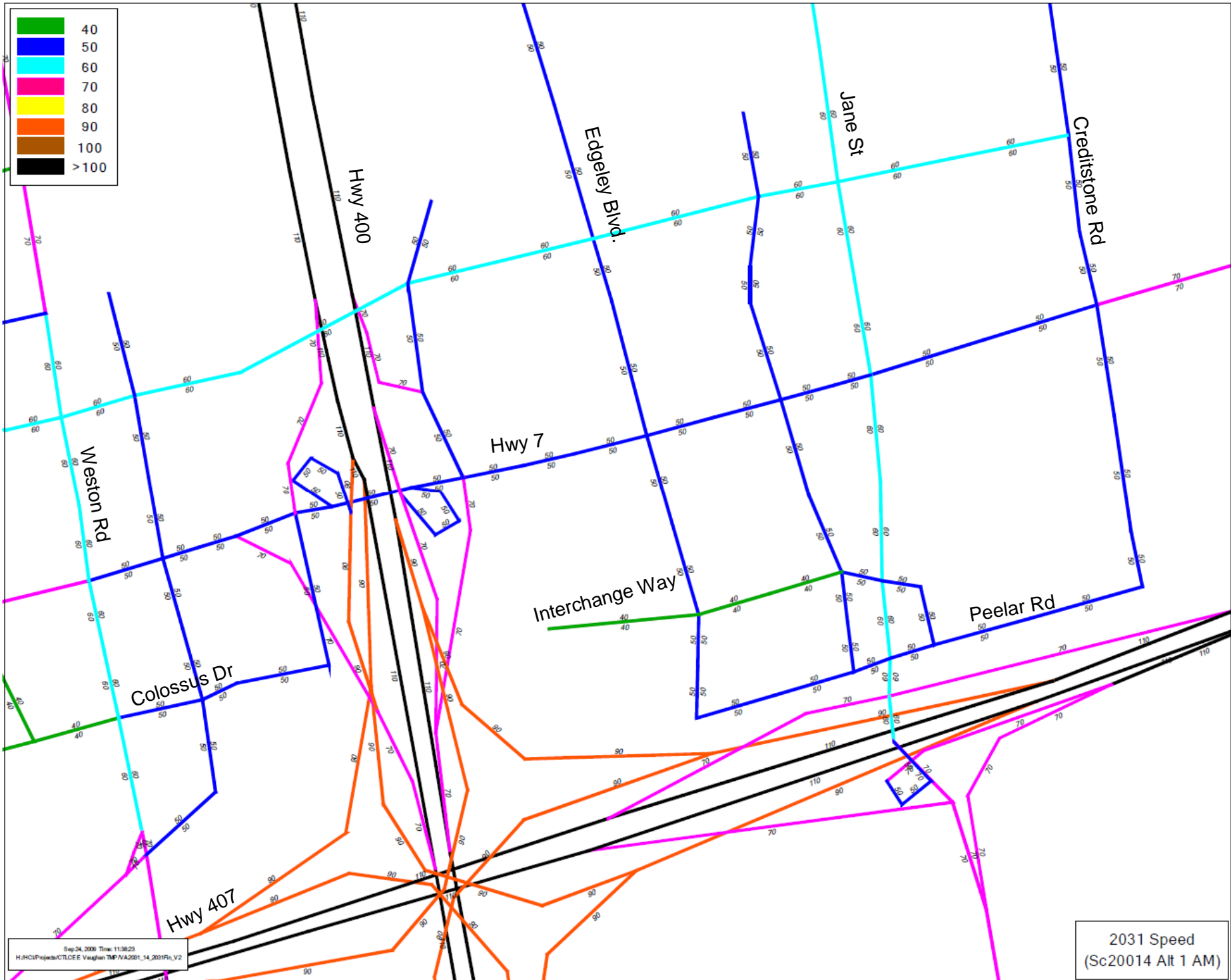
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2031 Number of Lanes
 (Sc20014 Alt 1 AM)

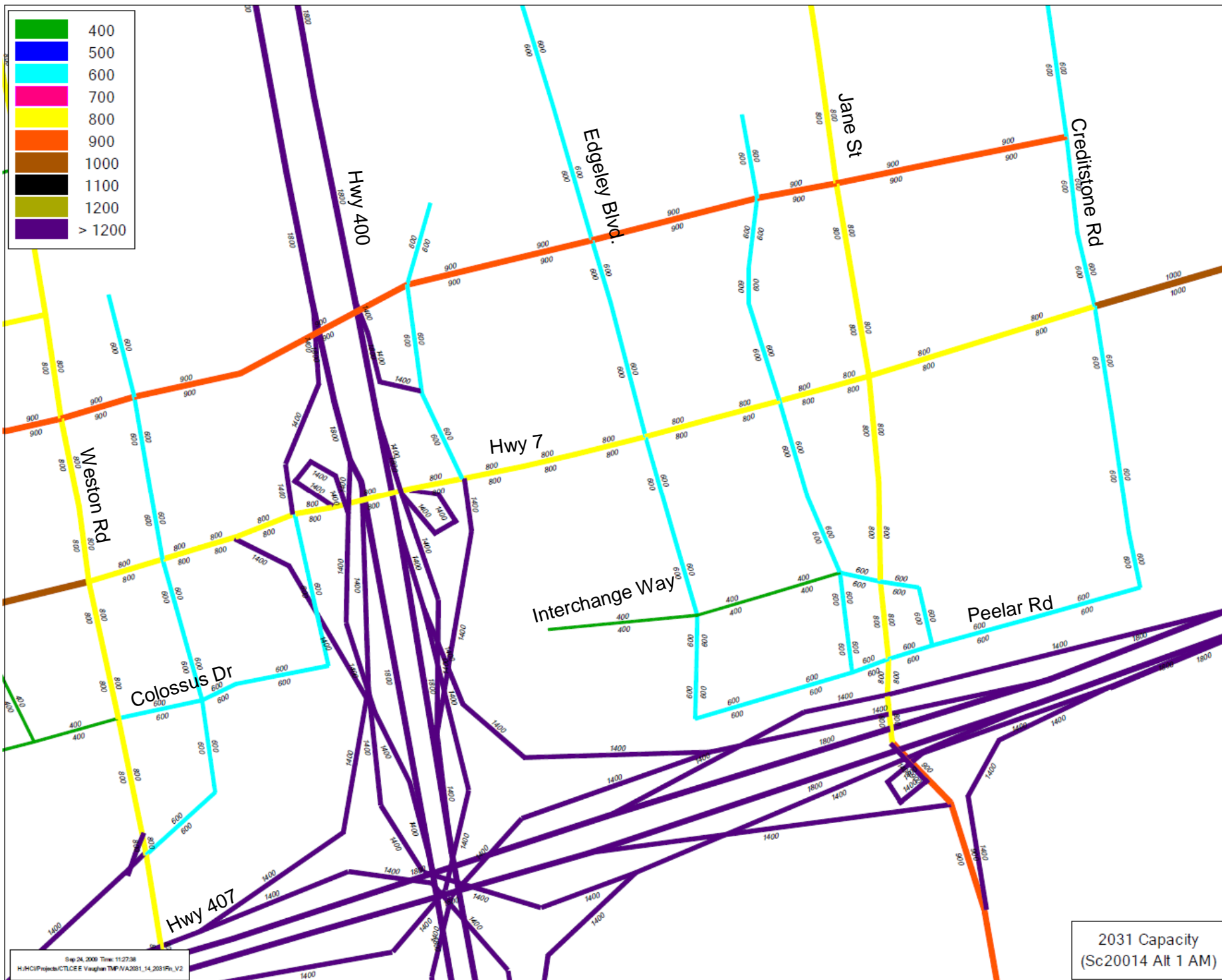
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2031 Speed
(Sc20014 Alt 1 AM)

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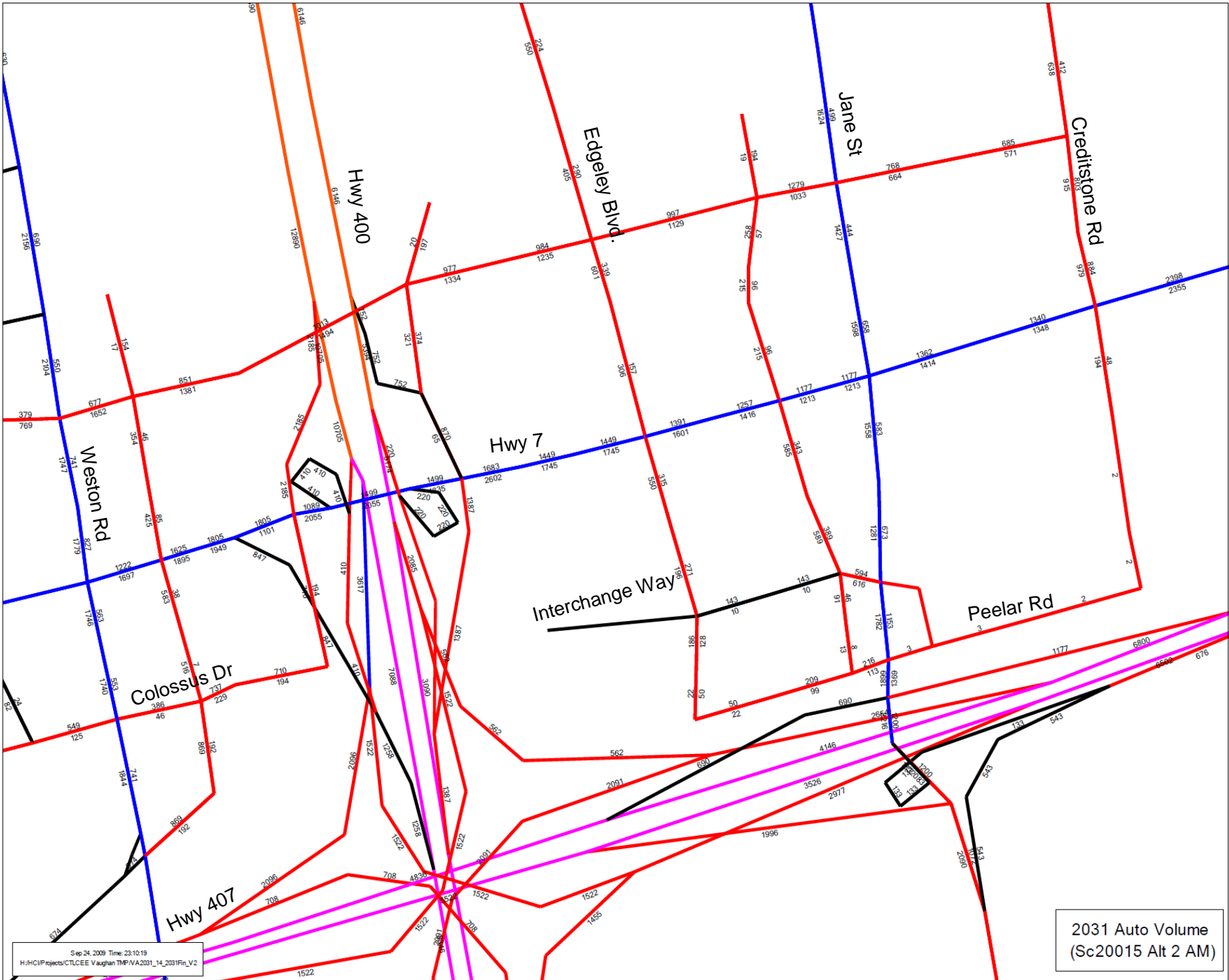
Sc 20015

2031 Horizon Year

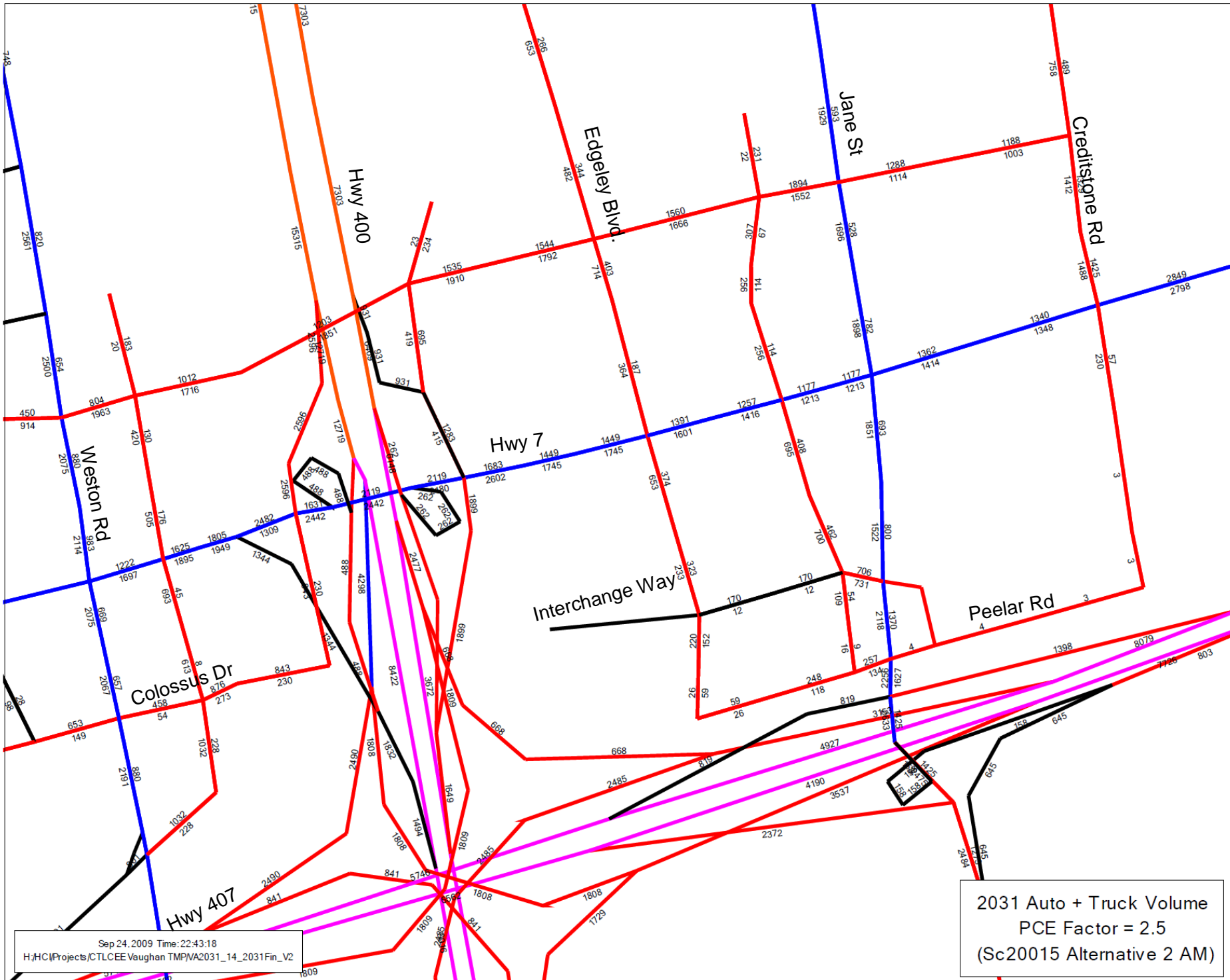
AM Peak

Alternative 2

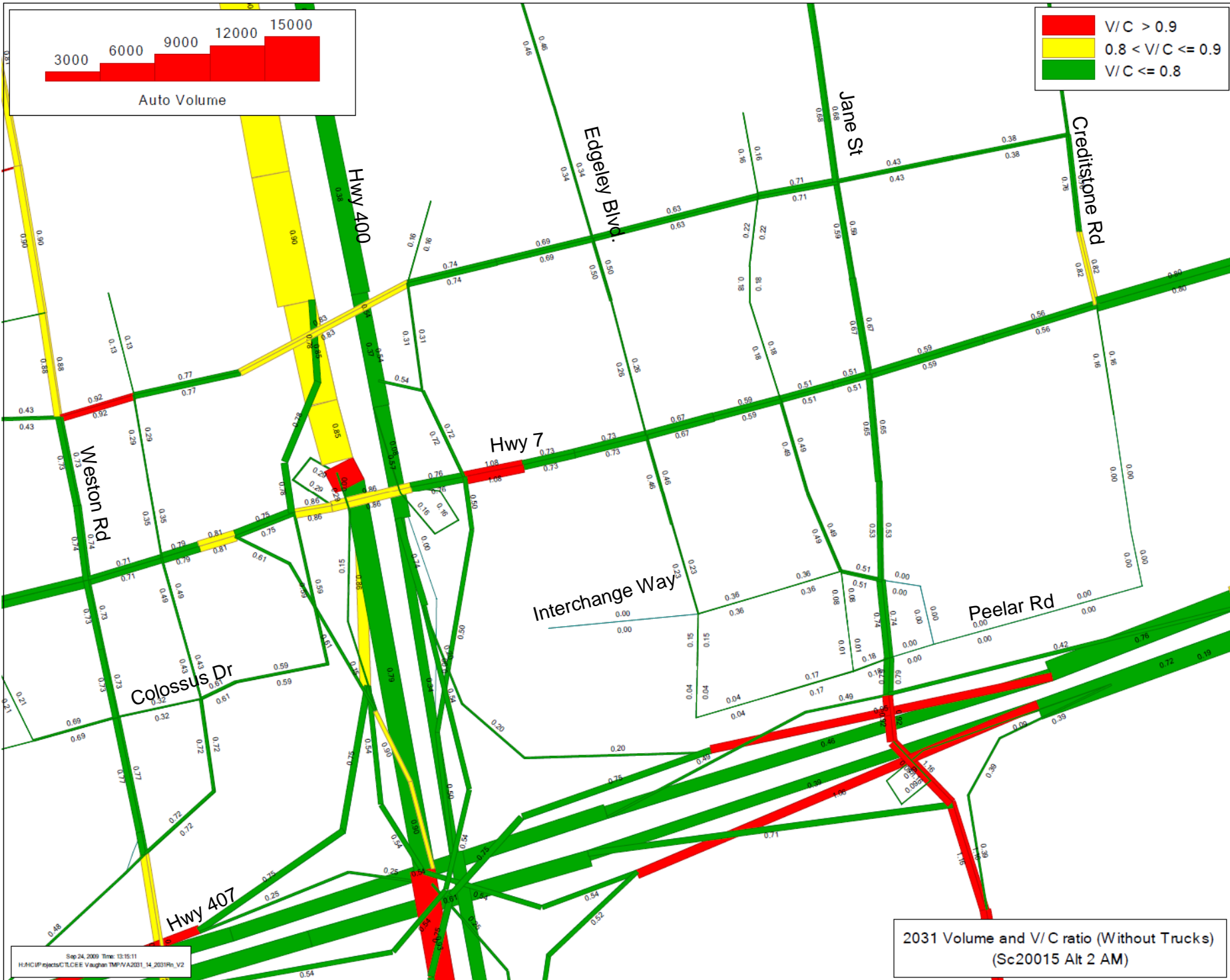
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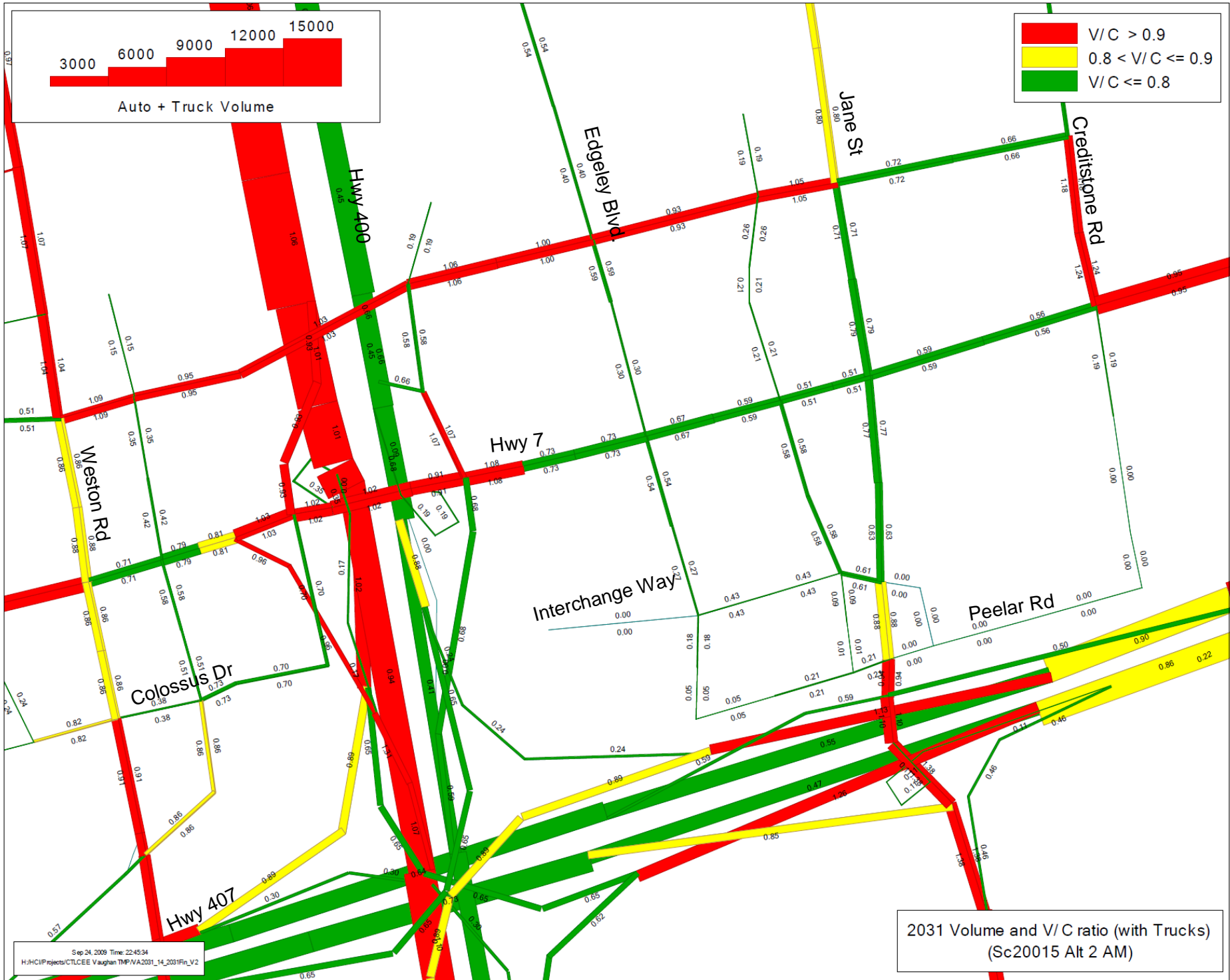
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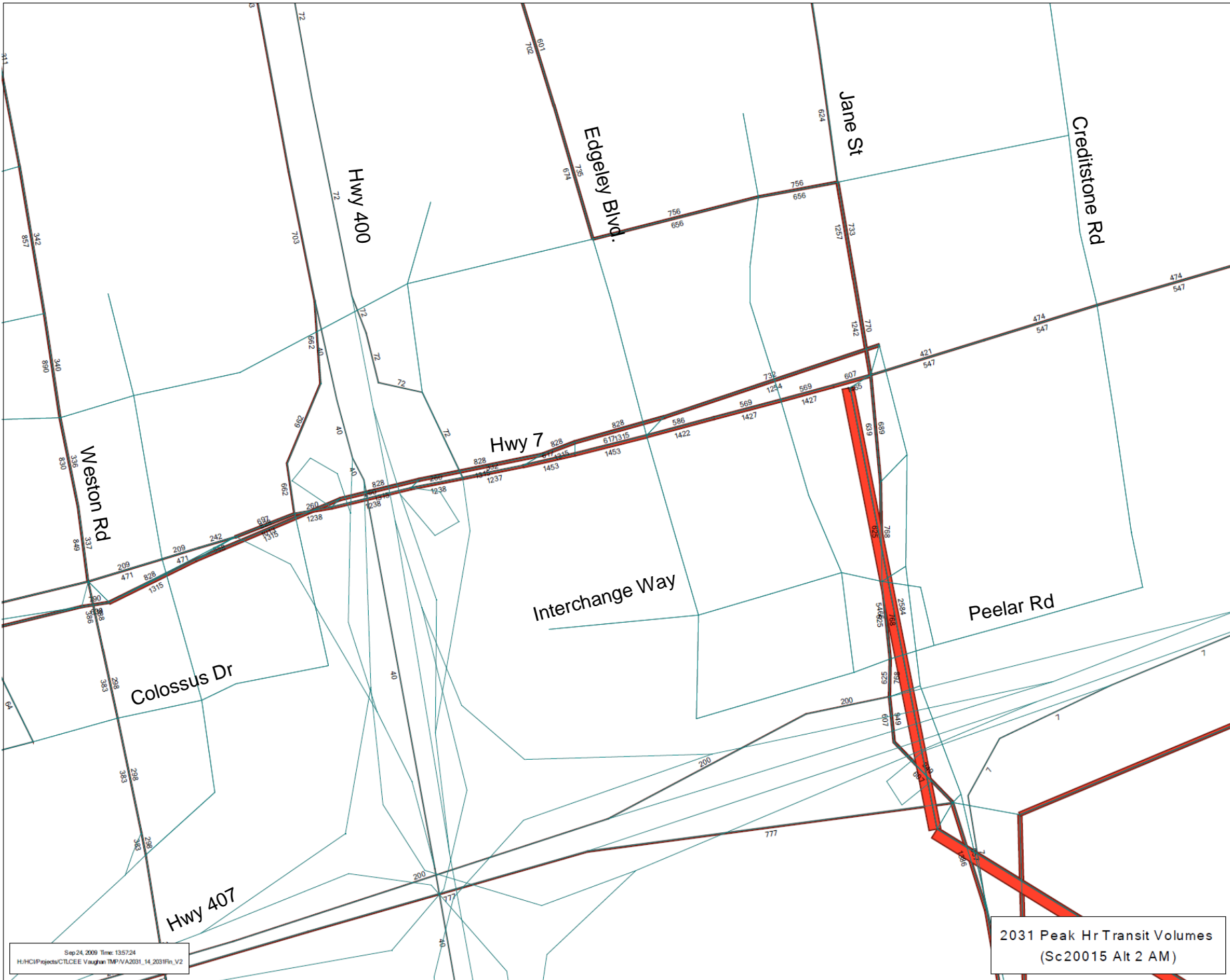
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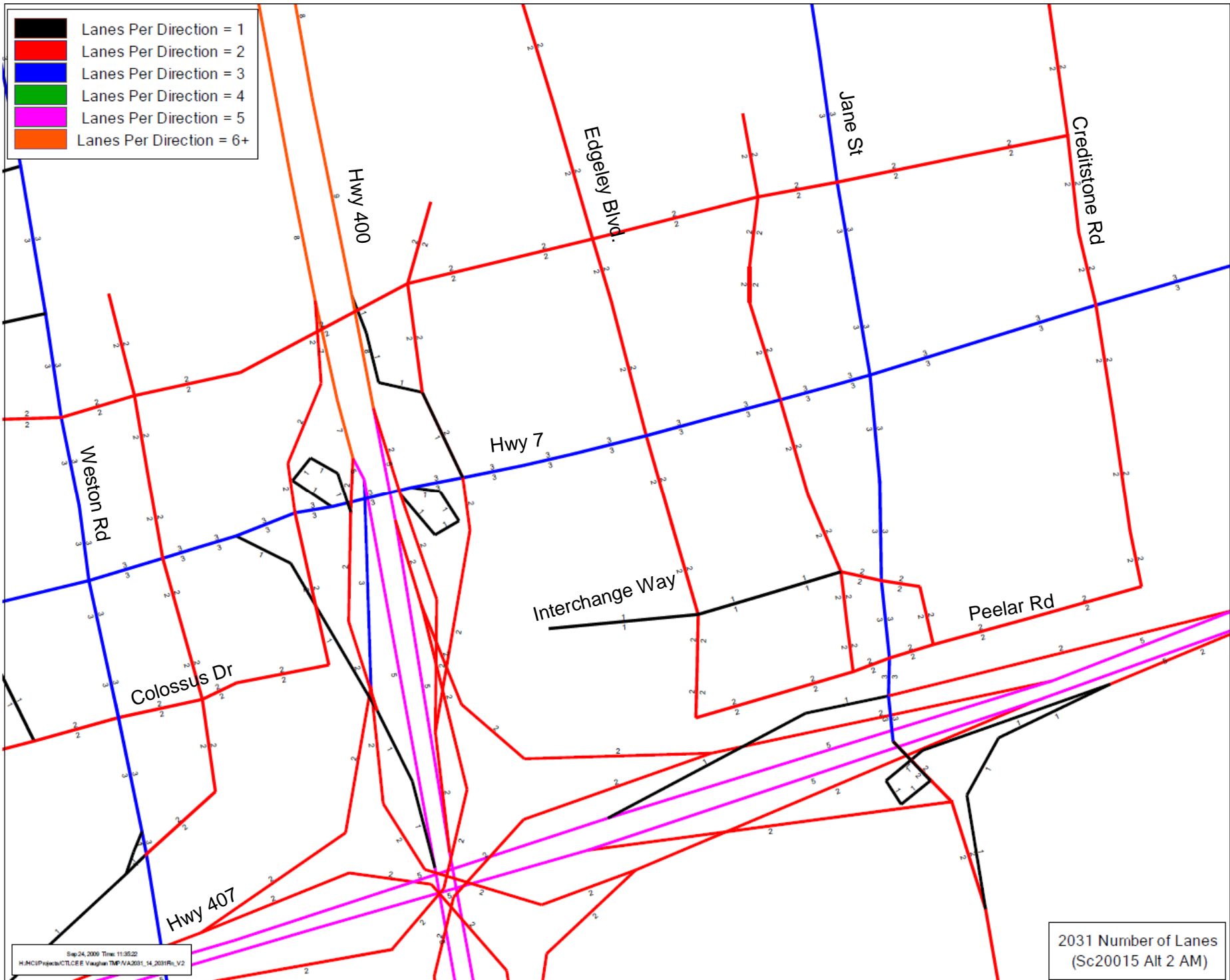
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2031 Peak Hr Transit Volumes
 (Sc20015 Alt 2 AM)

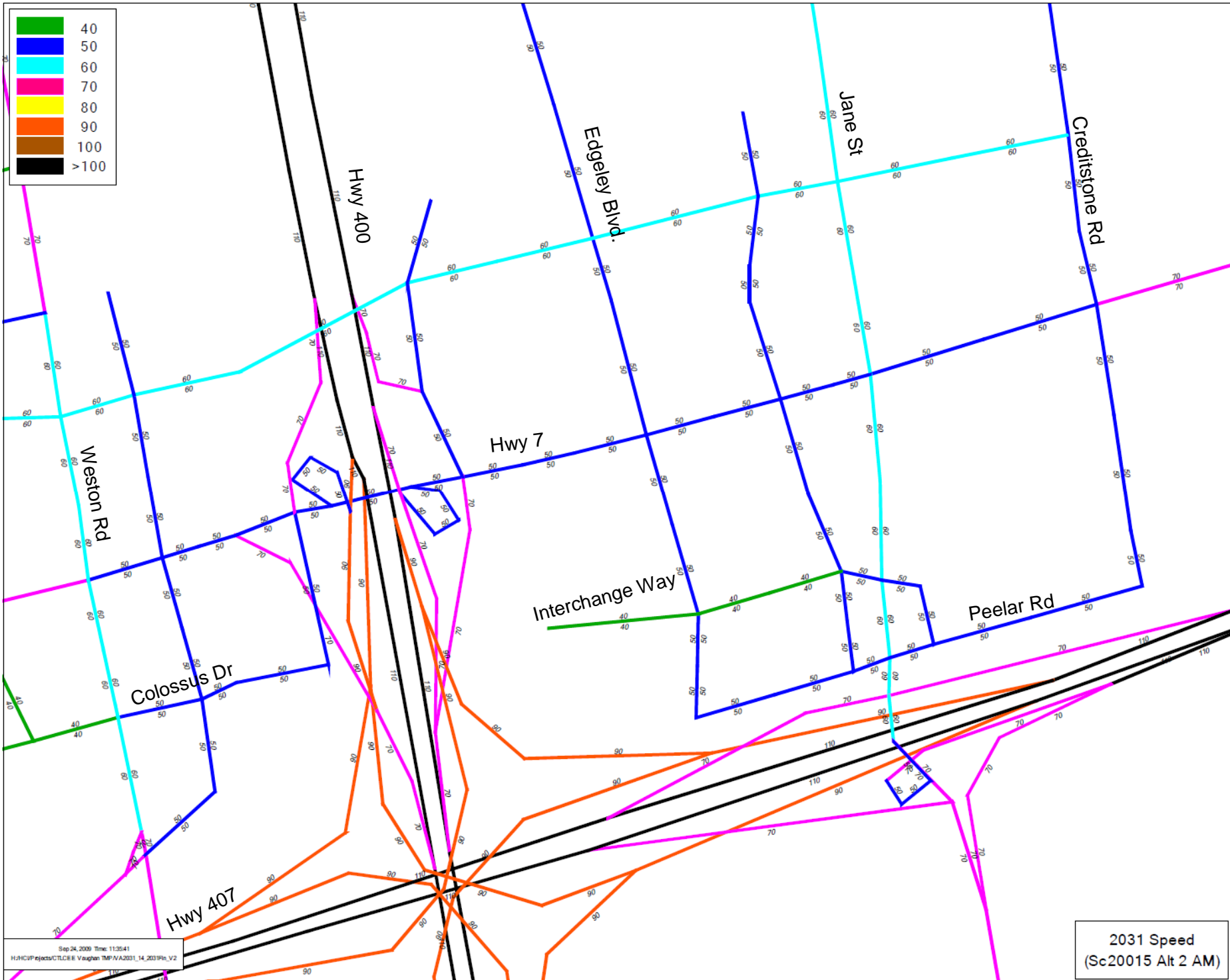
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2031 Number of Lanes
 (Sc20015 Alt 2 AM)

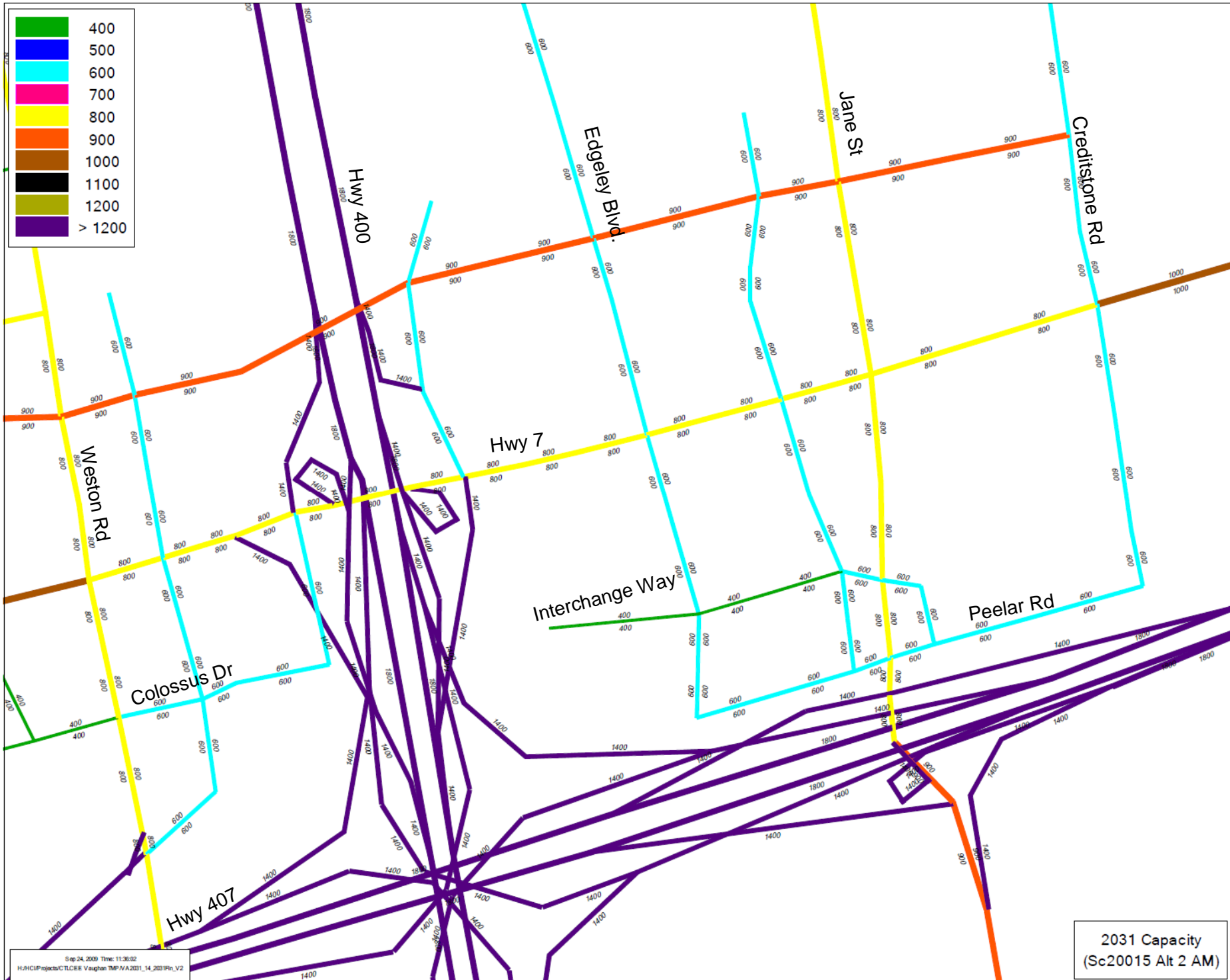
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2031 Speed
(Sc20015 Alt 2 AM)

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Sep 24, 2009 Time: 11:30:02
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2031 Capacity
 (Sc20015 Alt 2 AM)

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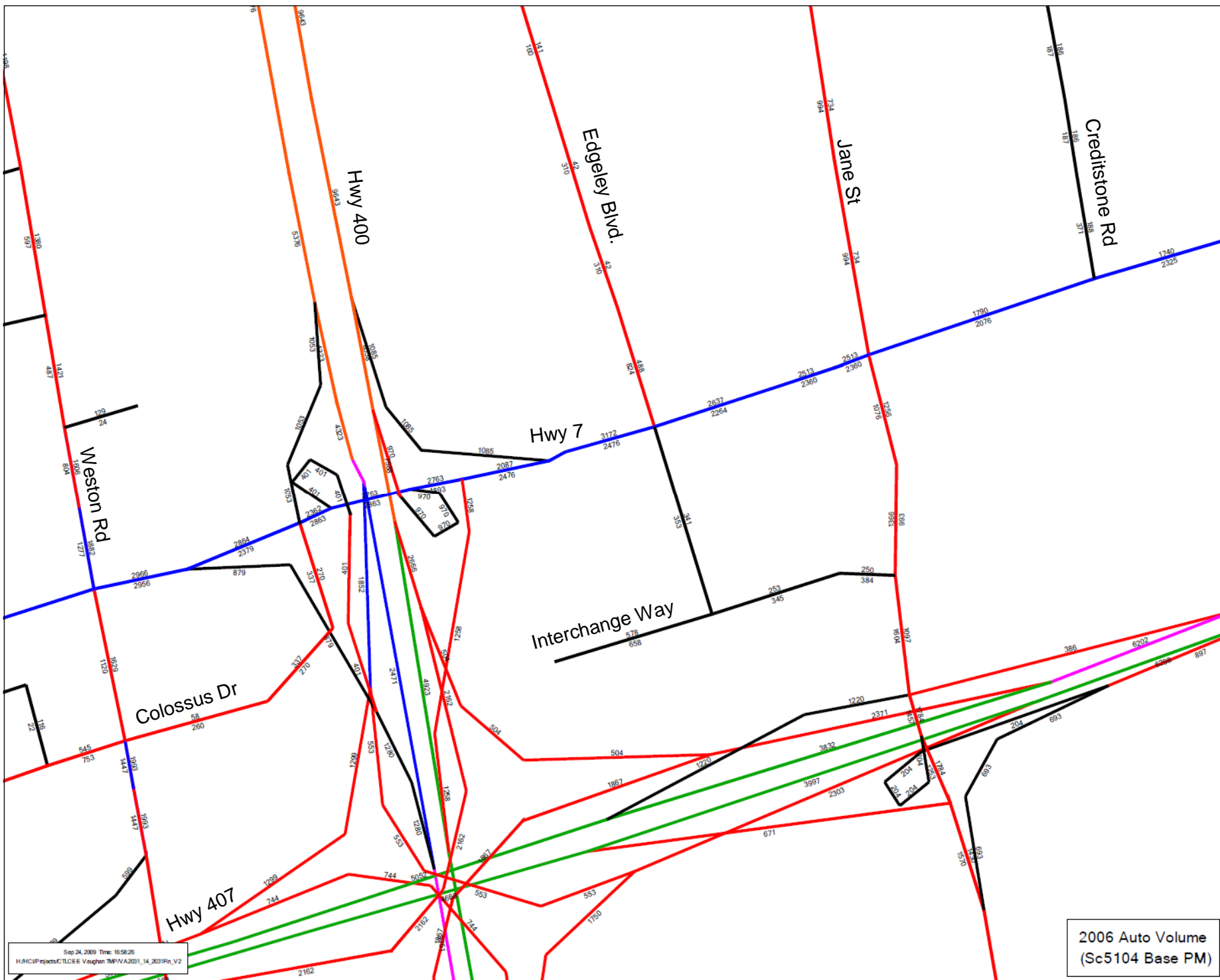
Sc 5104

2006

PM Peak

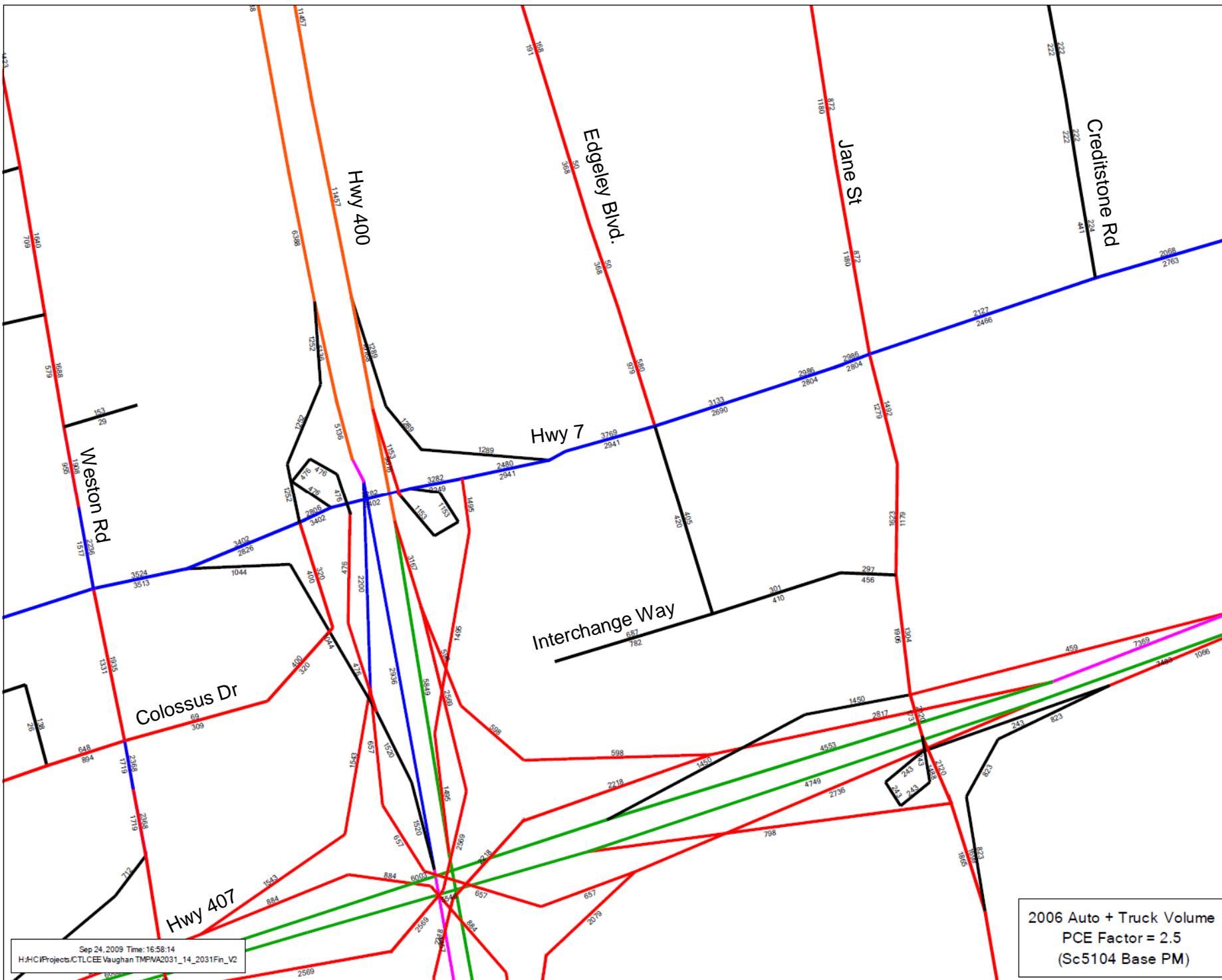
Base Scenario

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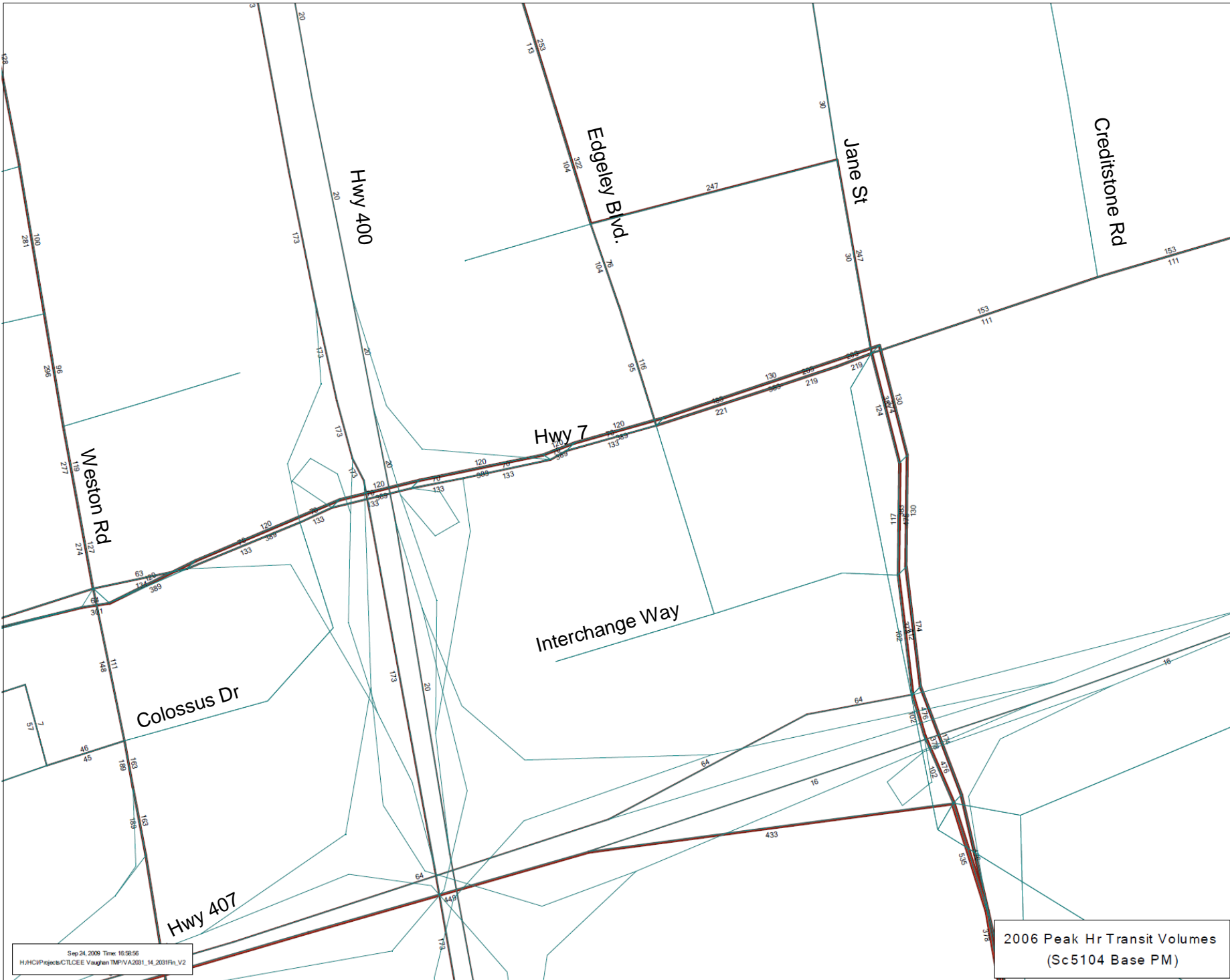


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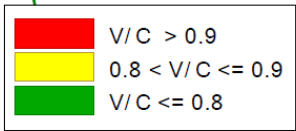
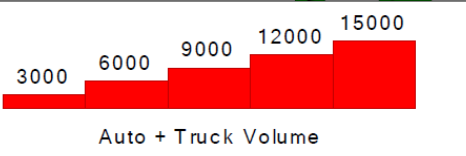
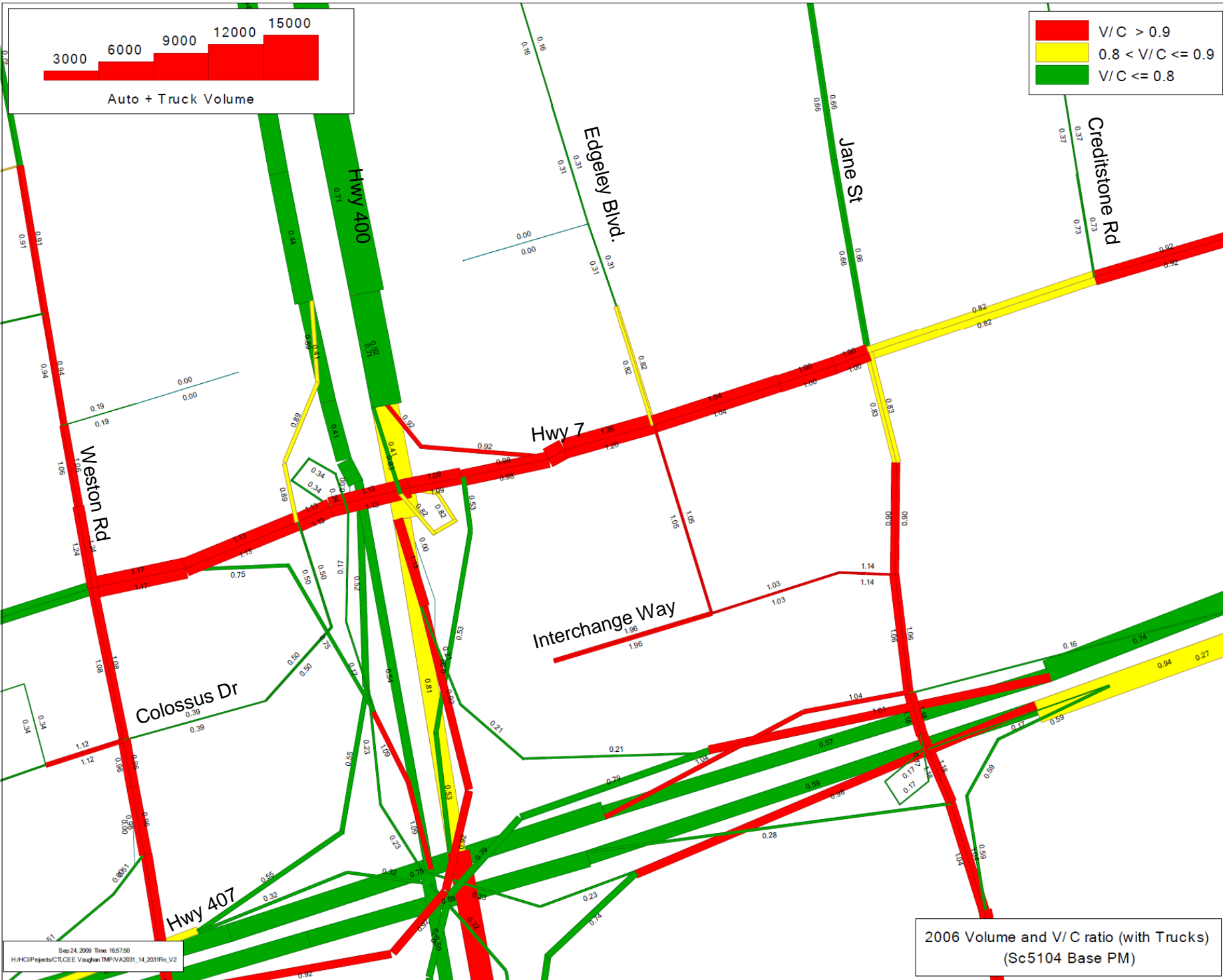
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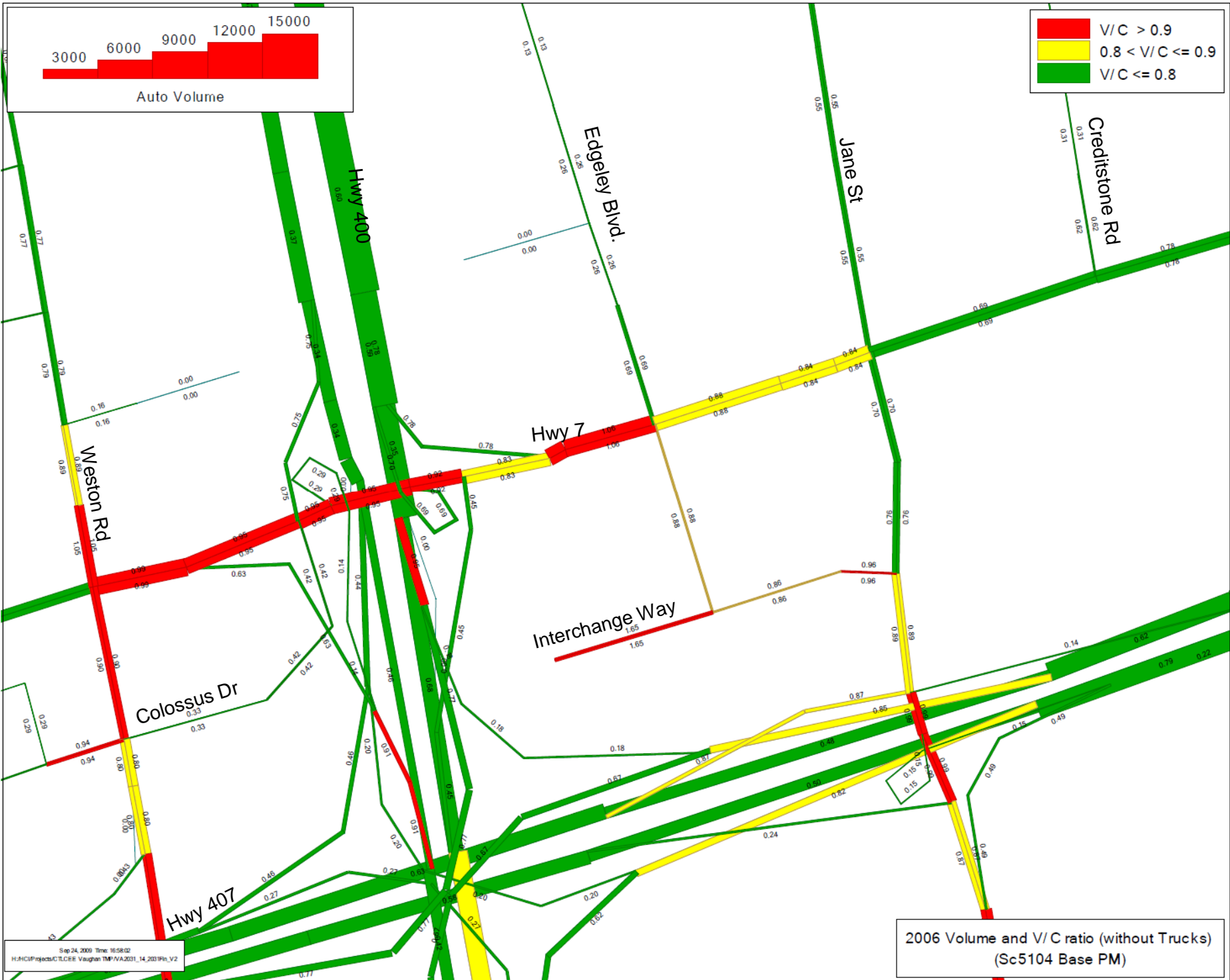
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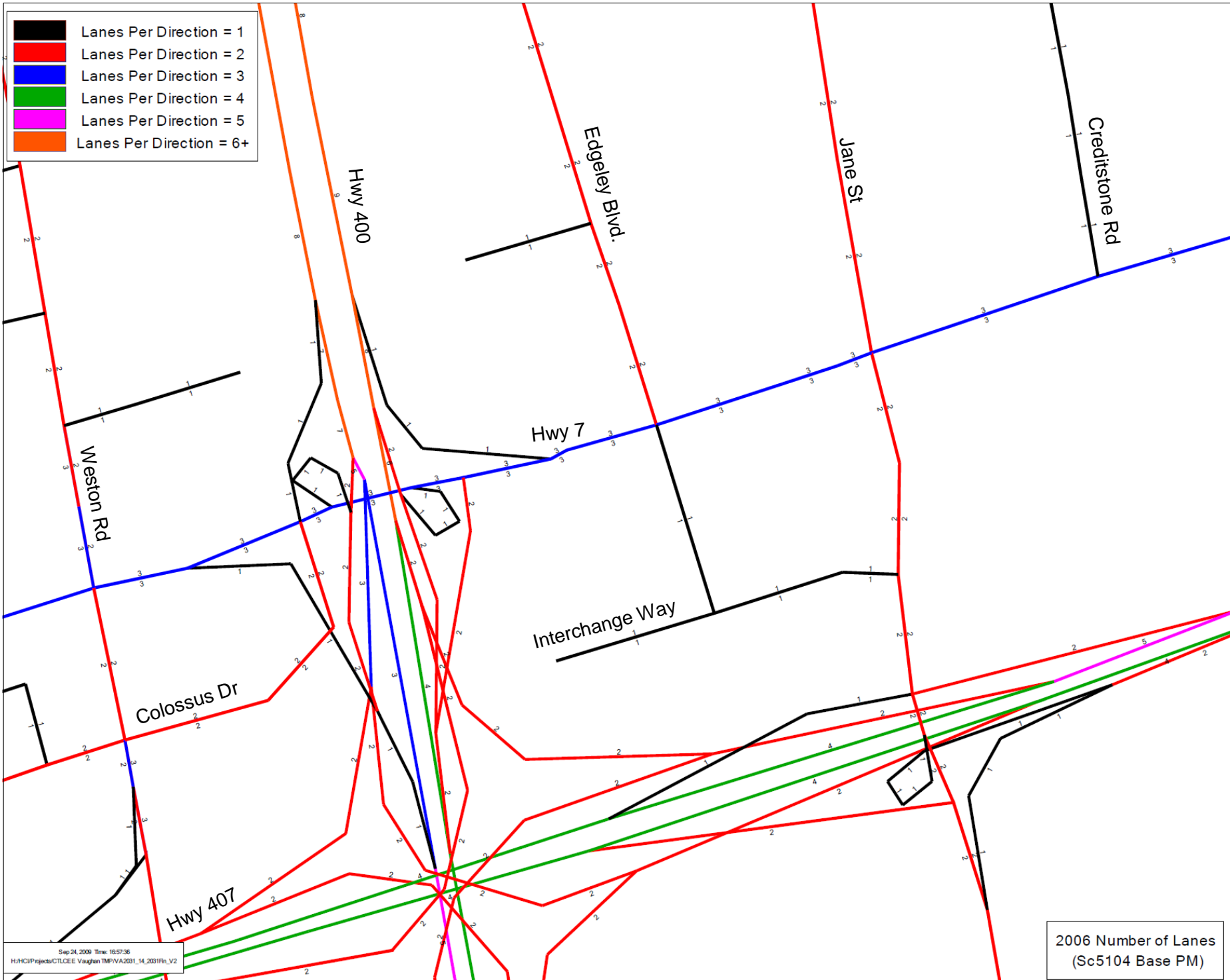
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2006 Volume and V/C ratio (without Trucks)
(Sc5104 Base PM)

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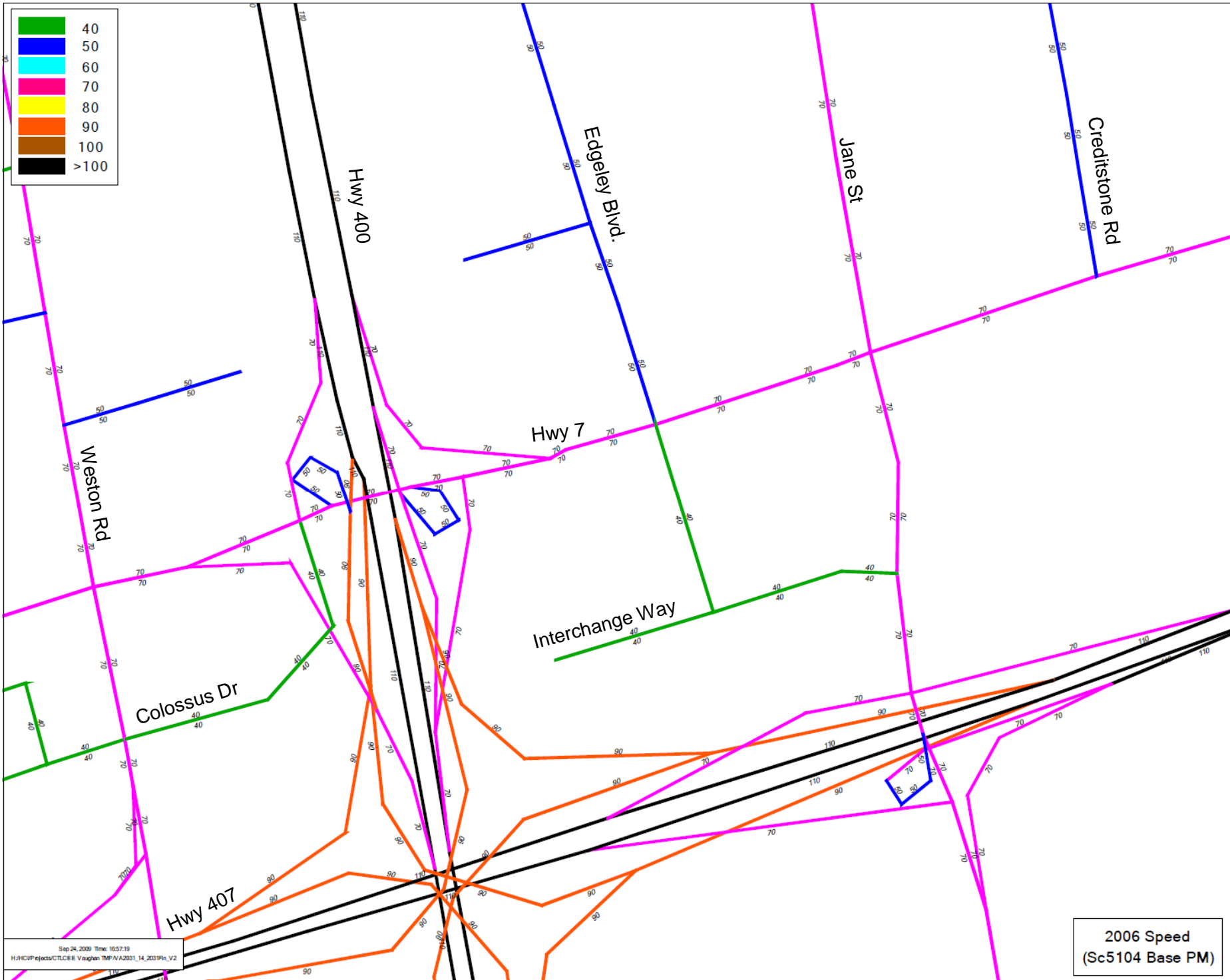
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2006 Number of Lanes
 (Sc5104 Base PM)

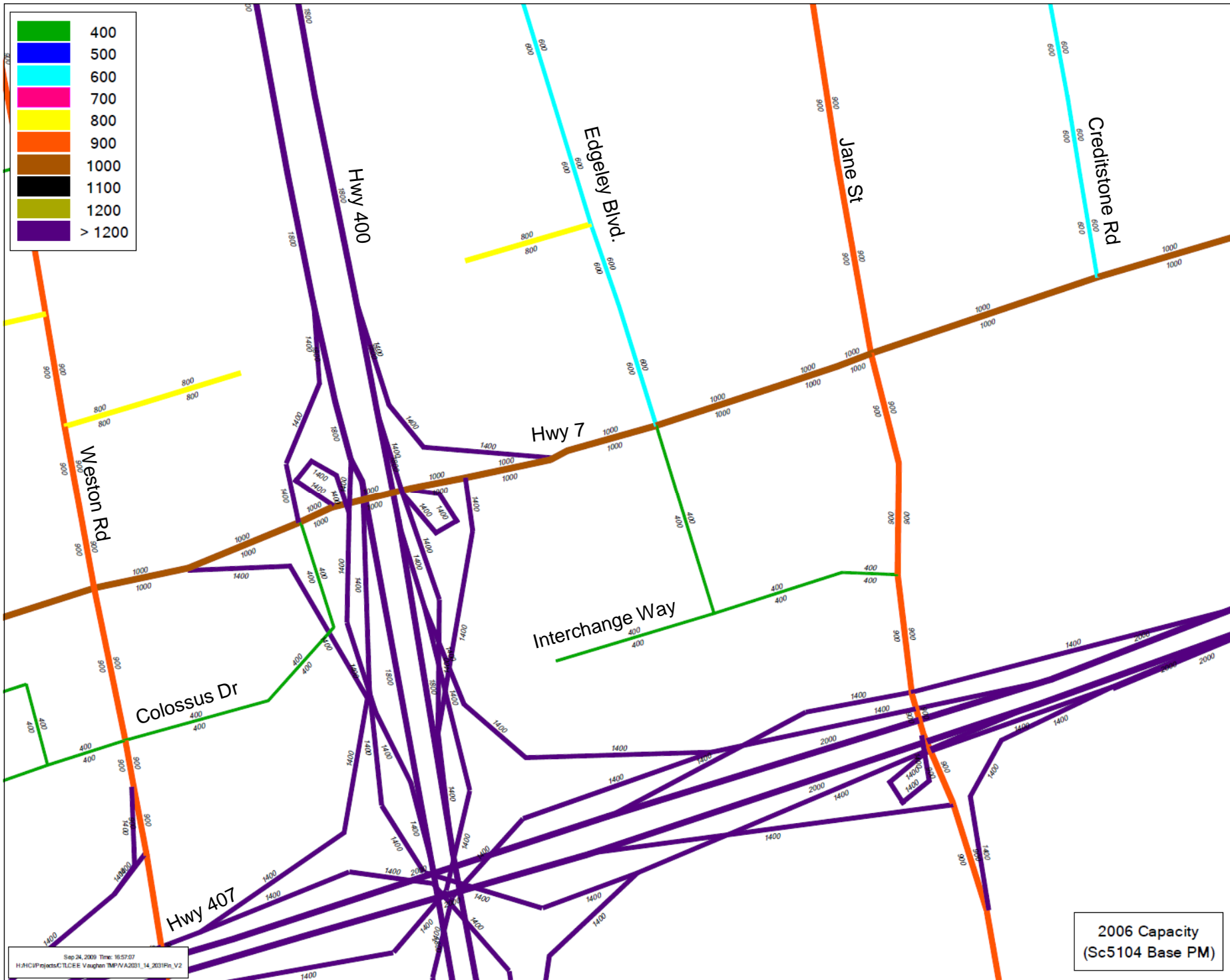
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2006 Speed
(Sc5104 Base PM)

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2006 Capacity
(Sc5104 Base PM)

DRAFT

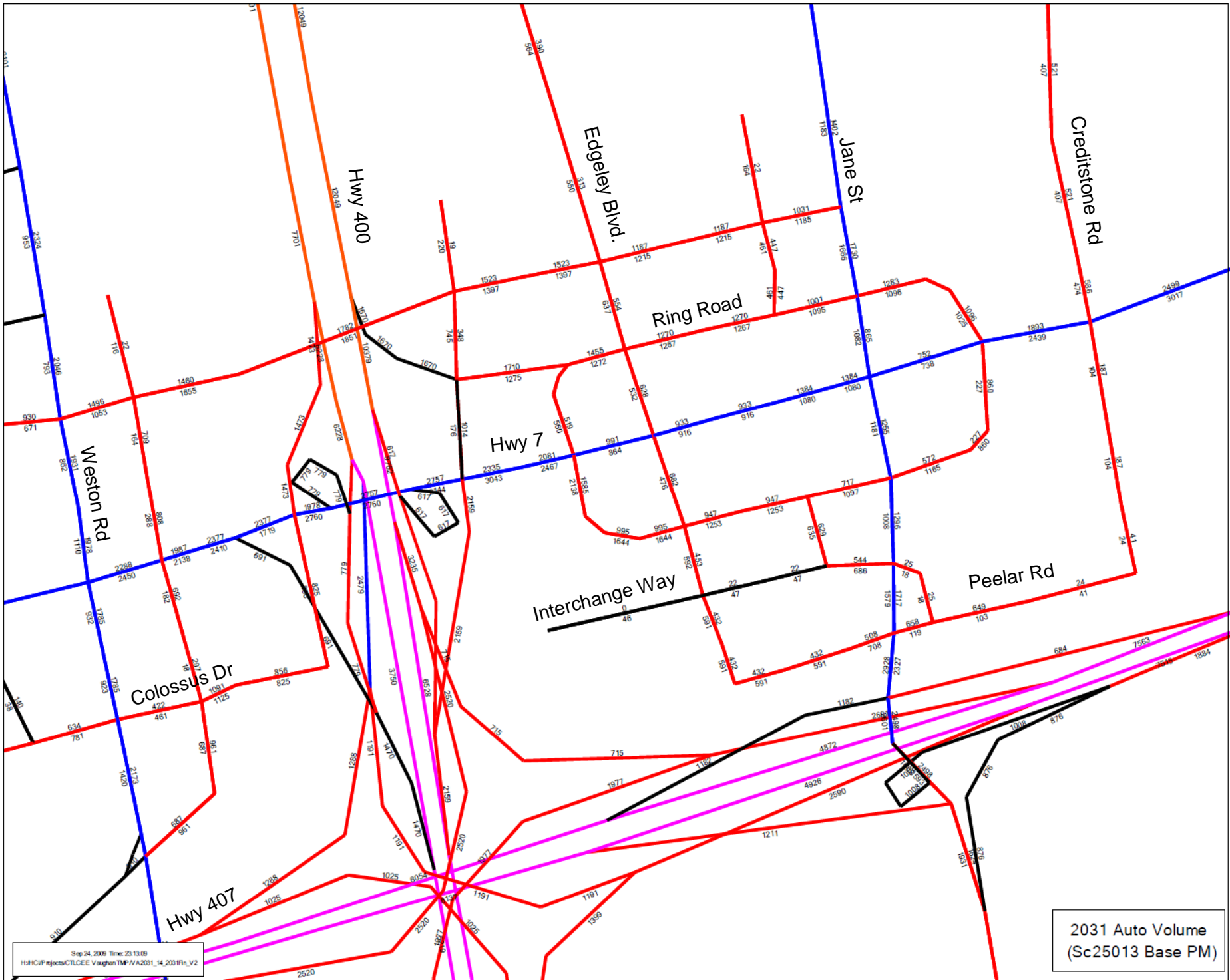
Sc 25013

2031 Horizon Year

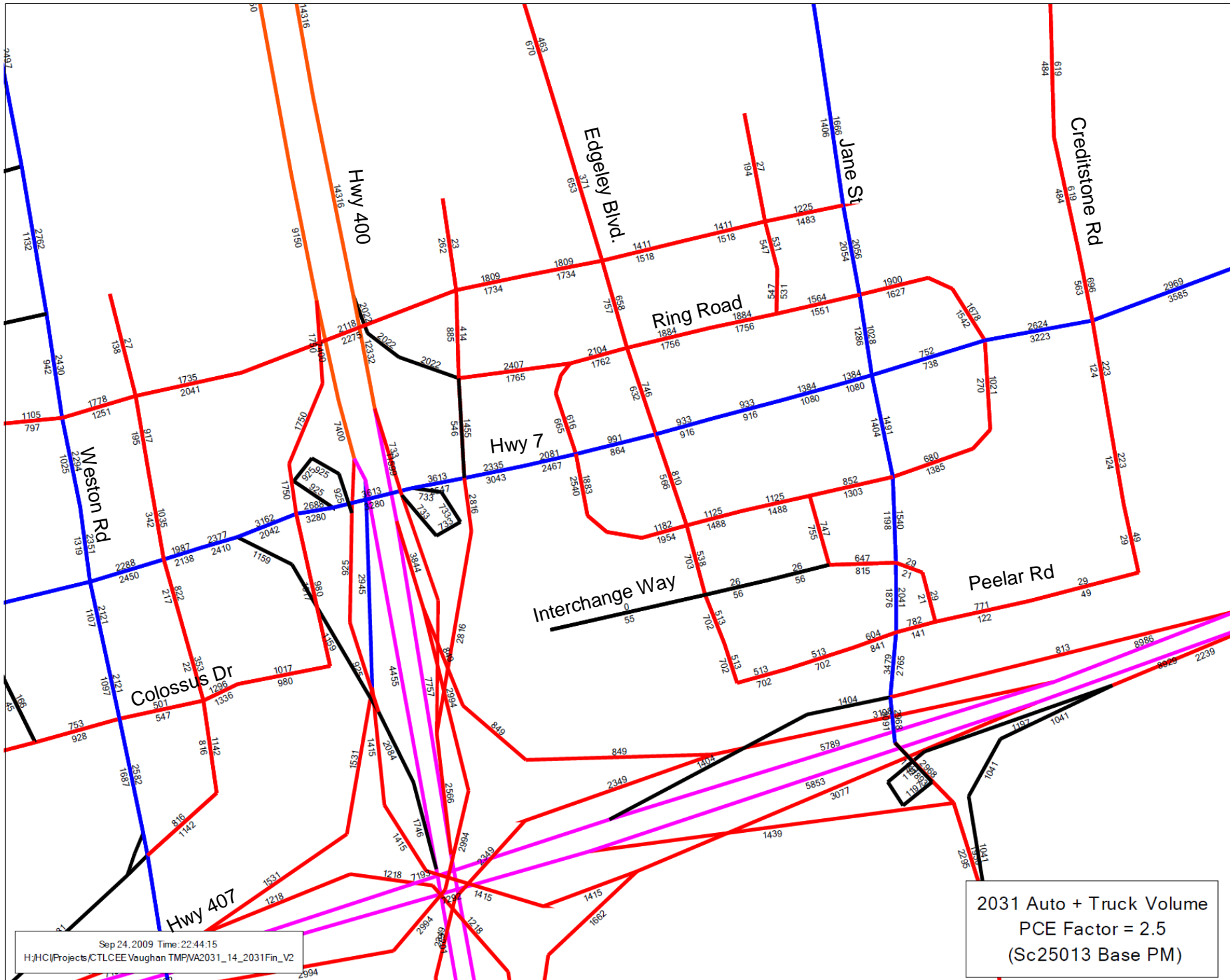
PM Peak

Base Scenario (with Ring Road)

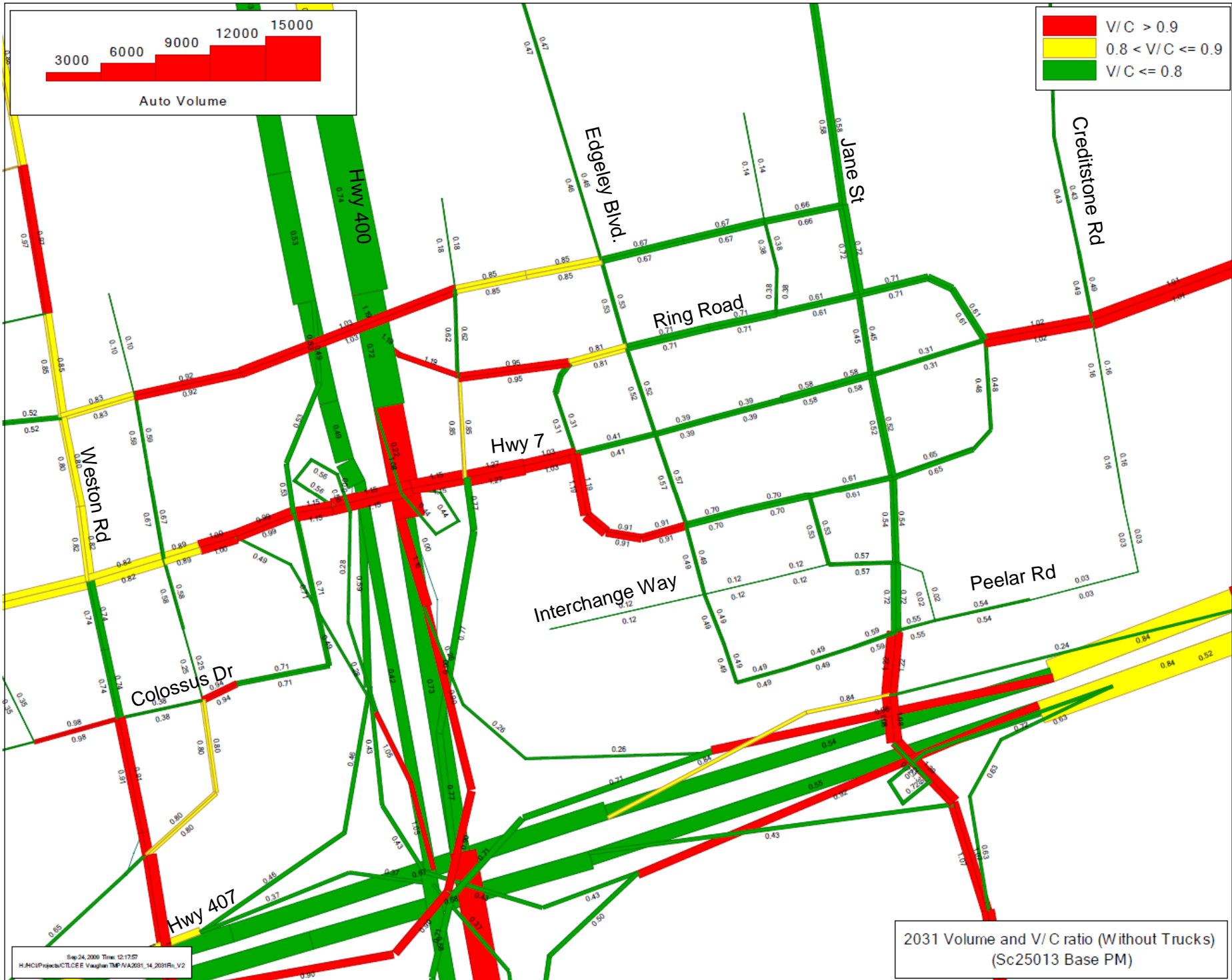
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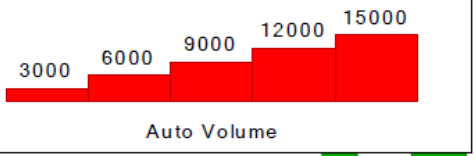
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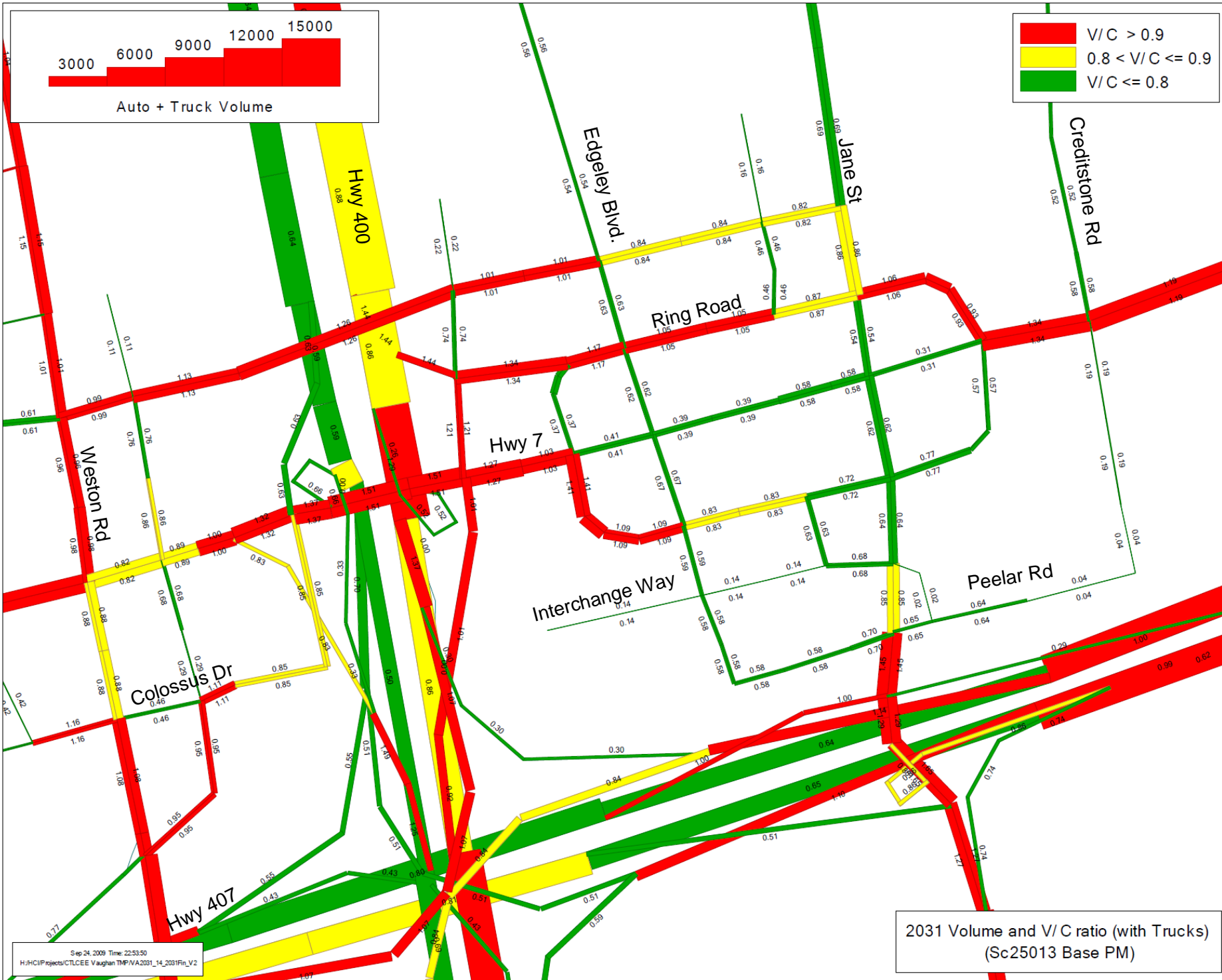
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	0.8 < V/C <= 0.9
	V/C <= 0.8



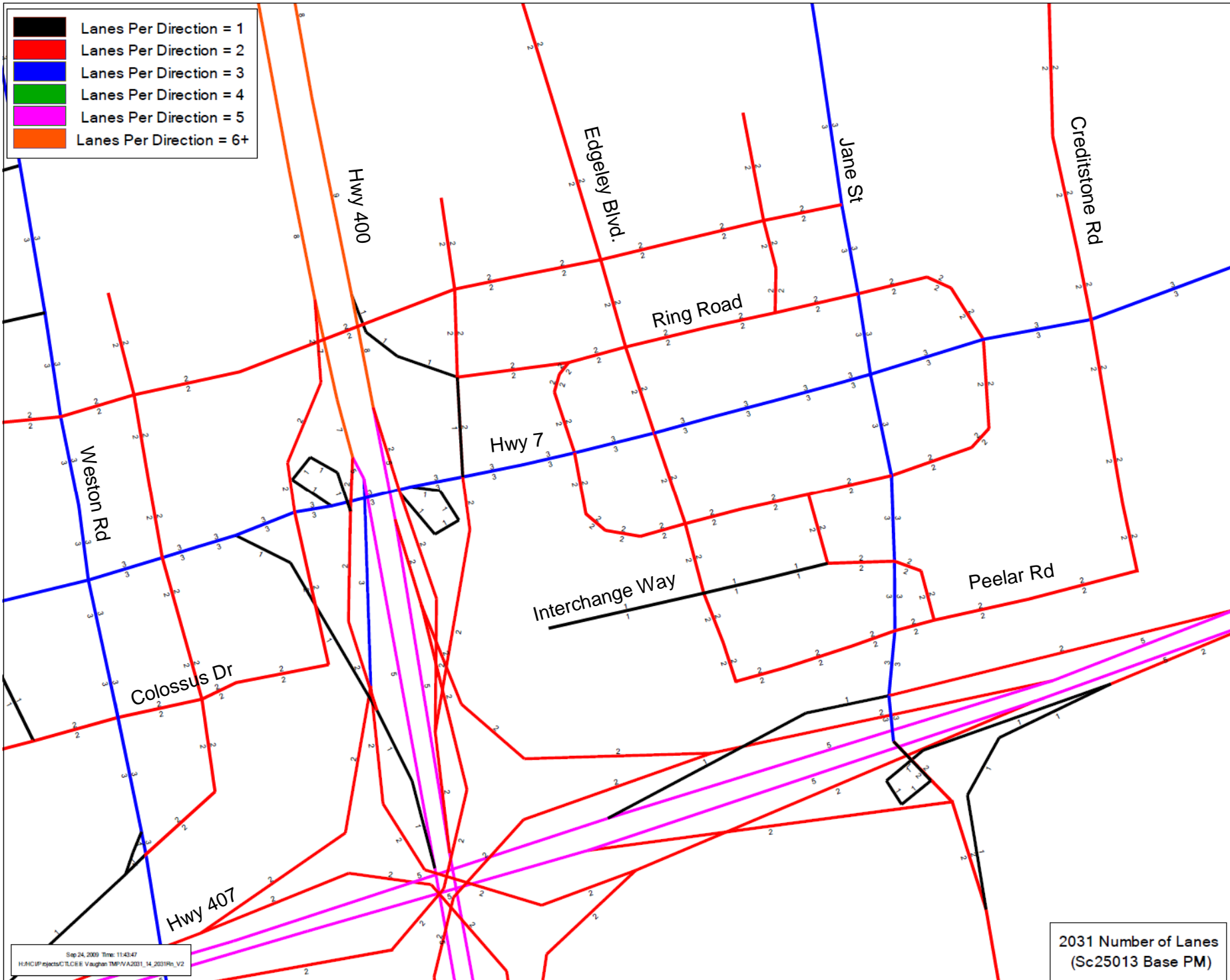
2031 Volume and V/C ratio (Without Trucks)
(Sc25013 Base PM)

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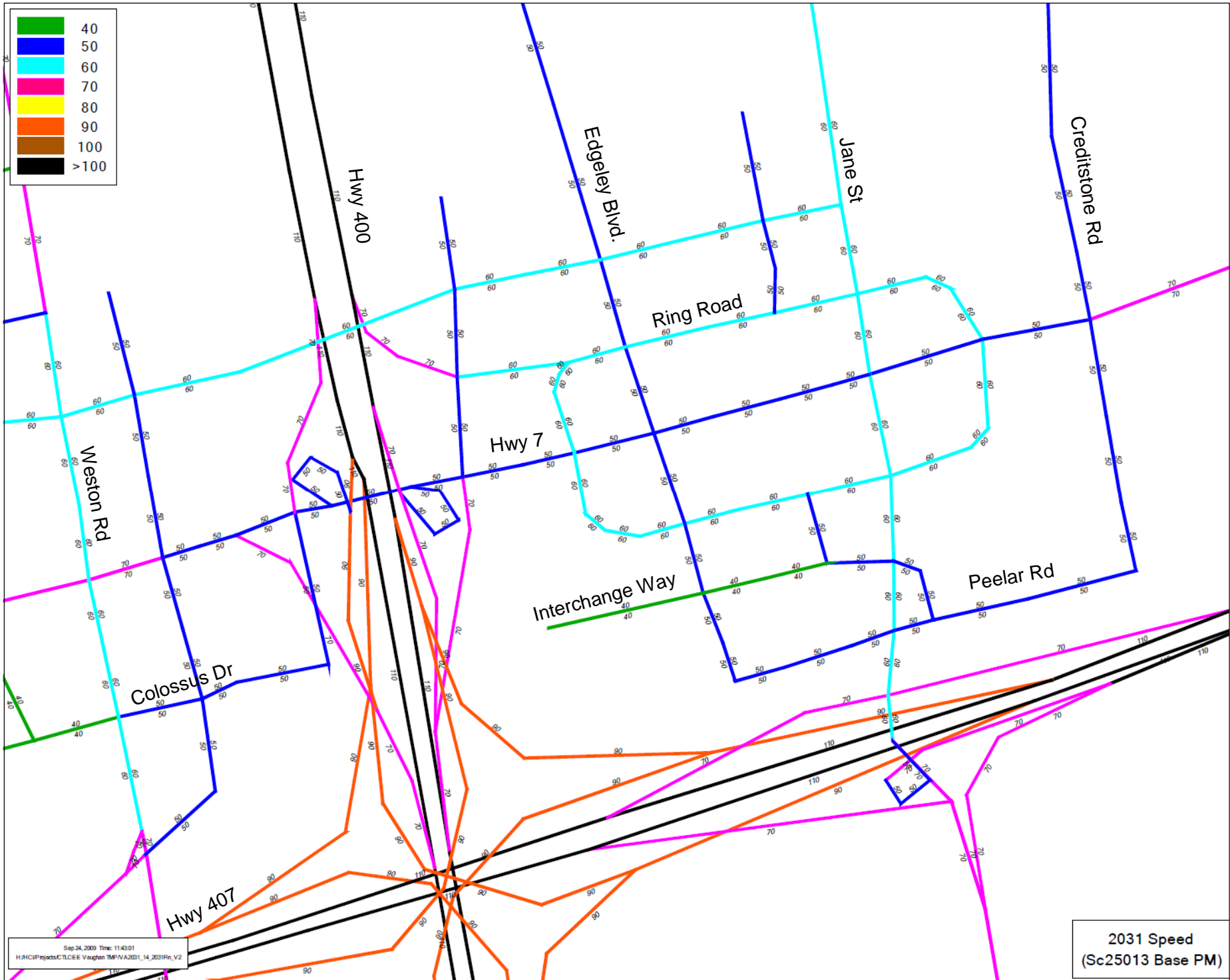
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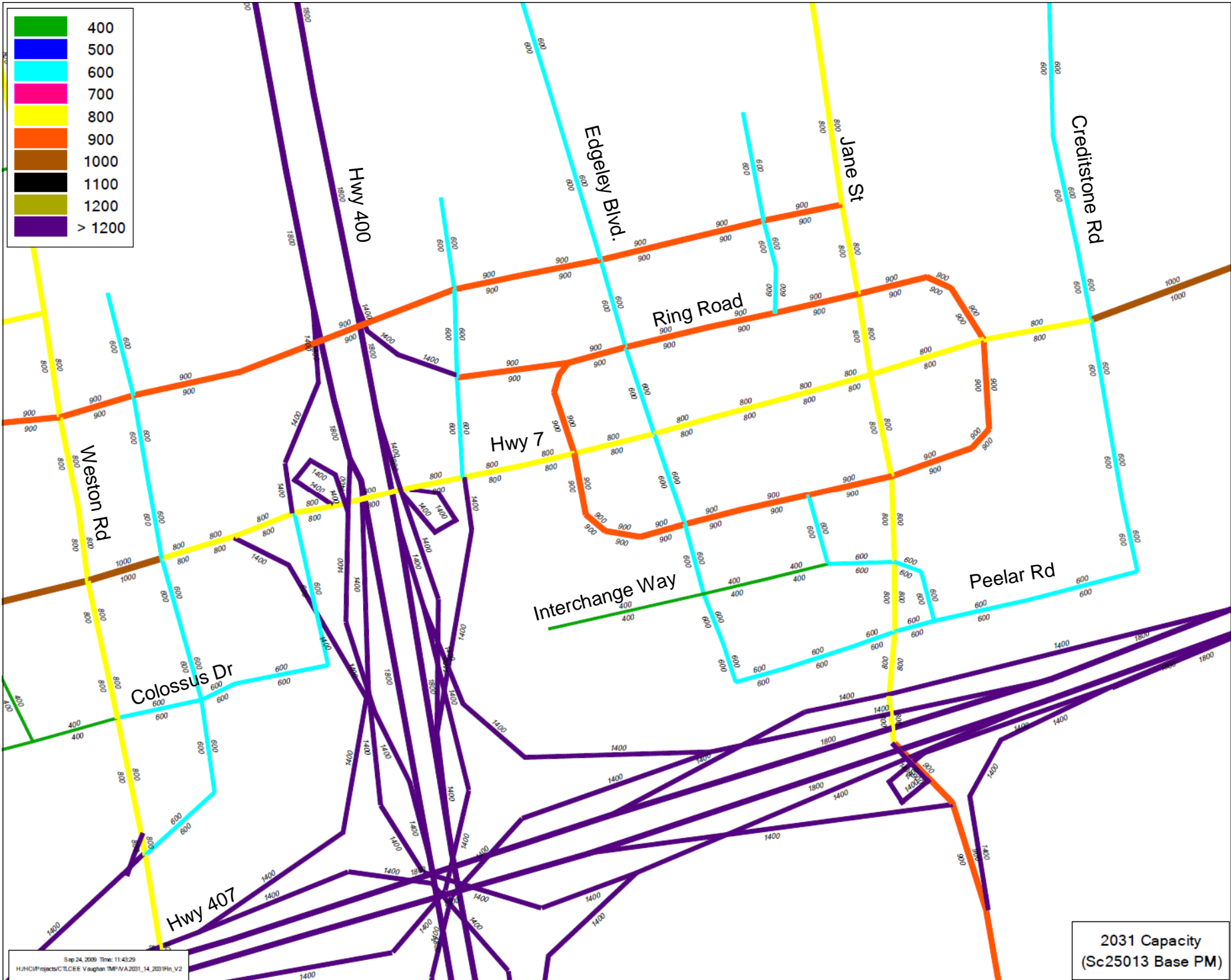
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Sept 24, 2009 Time: 11:43:29
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2031 Capacity
 (Sc25013 Base PM)

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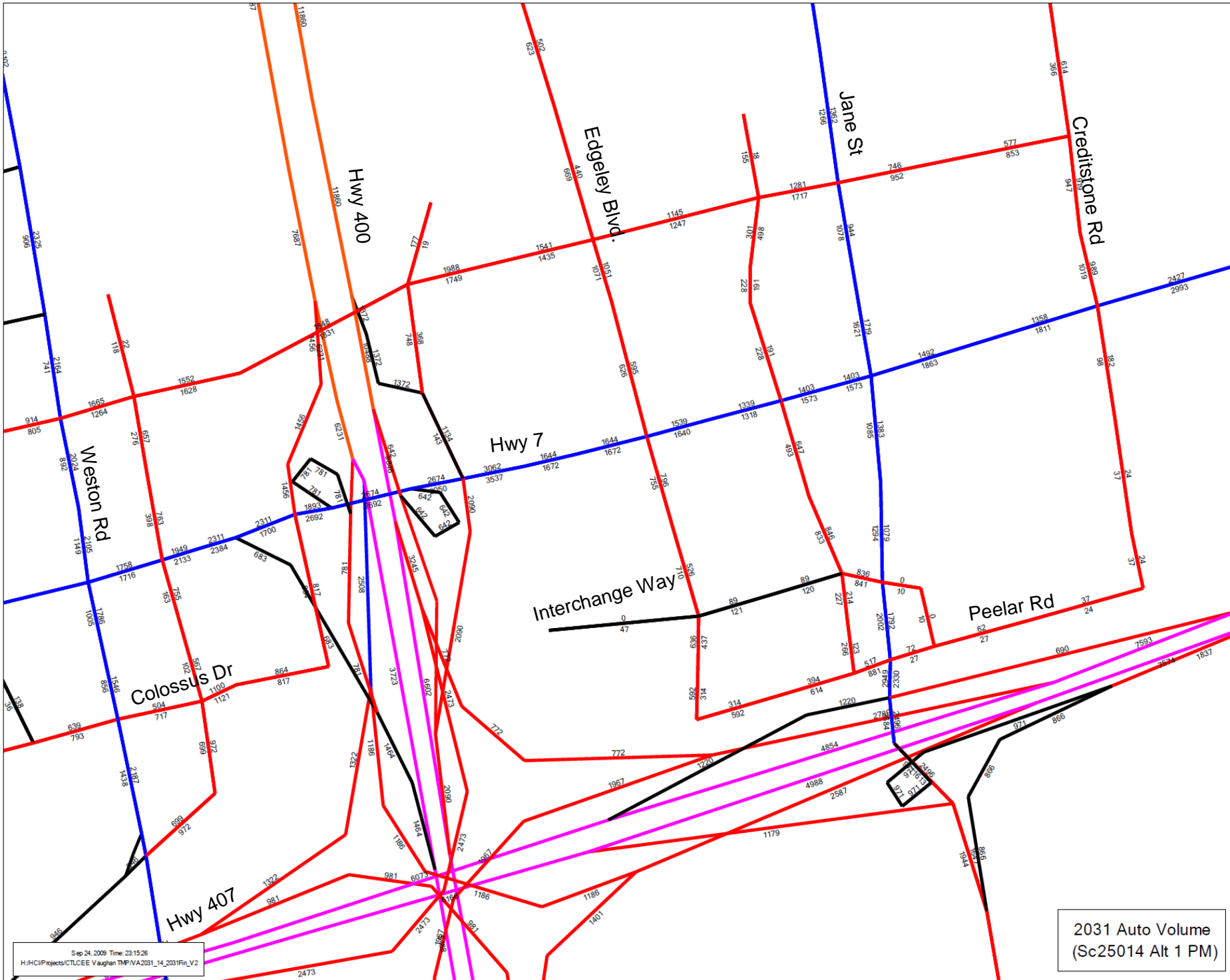
Sc 25014

2031 Horizon Year

PM Peak

Alternative 1

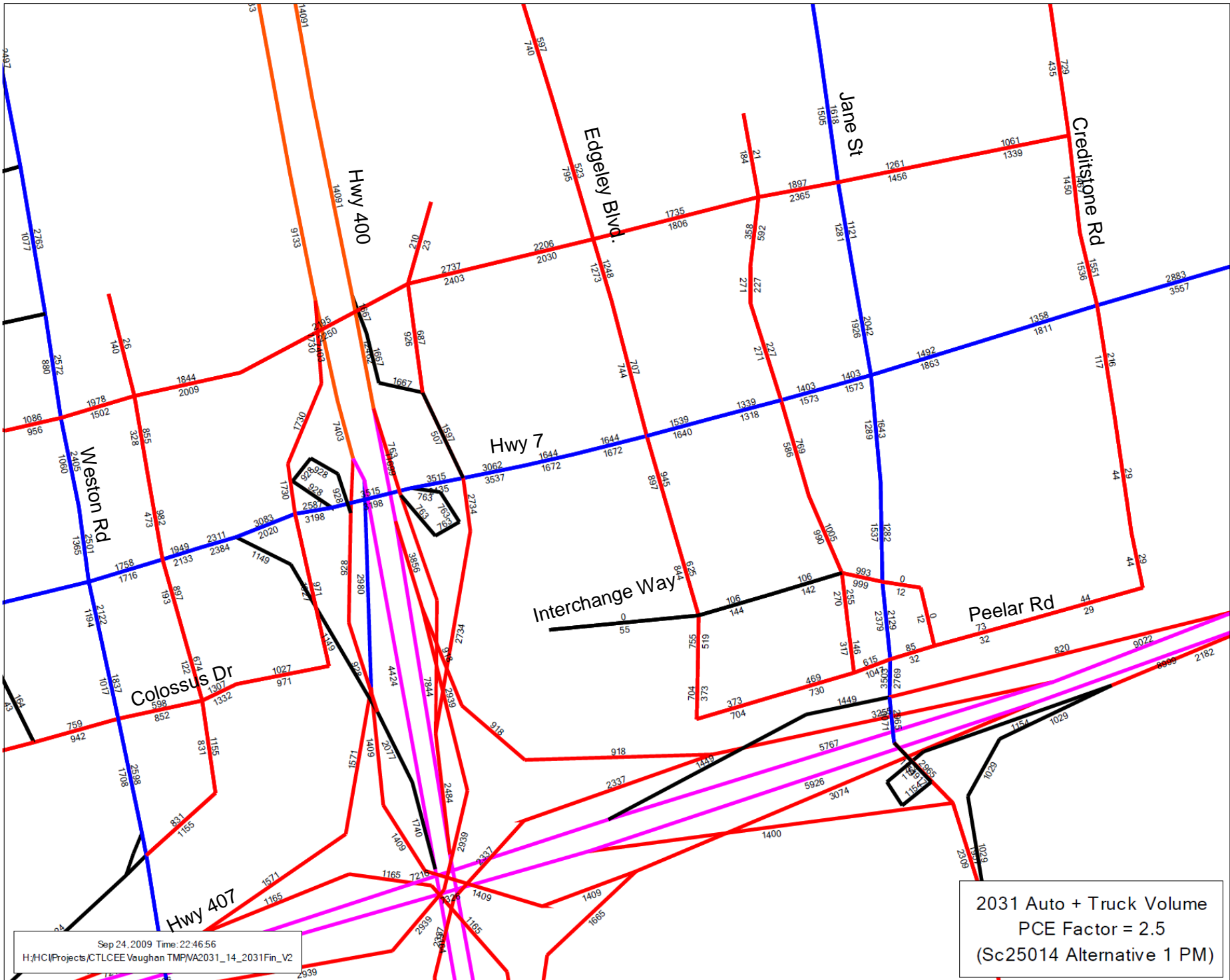
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2031 Auto Volume
(Sc25014 Alt 1 PM)

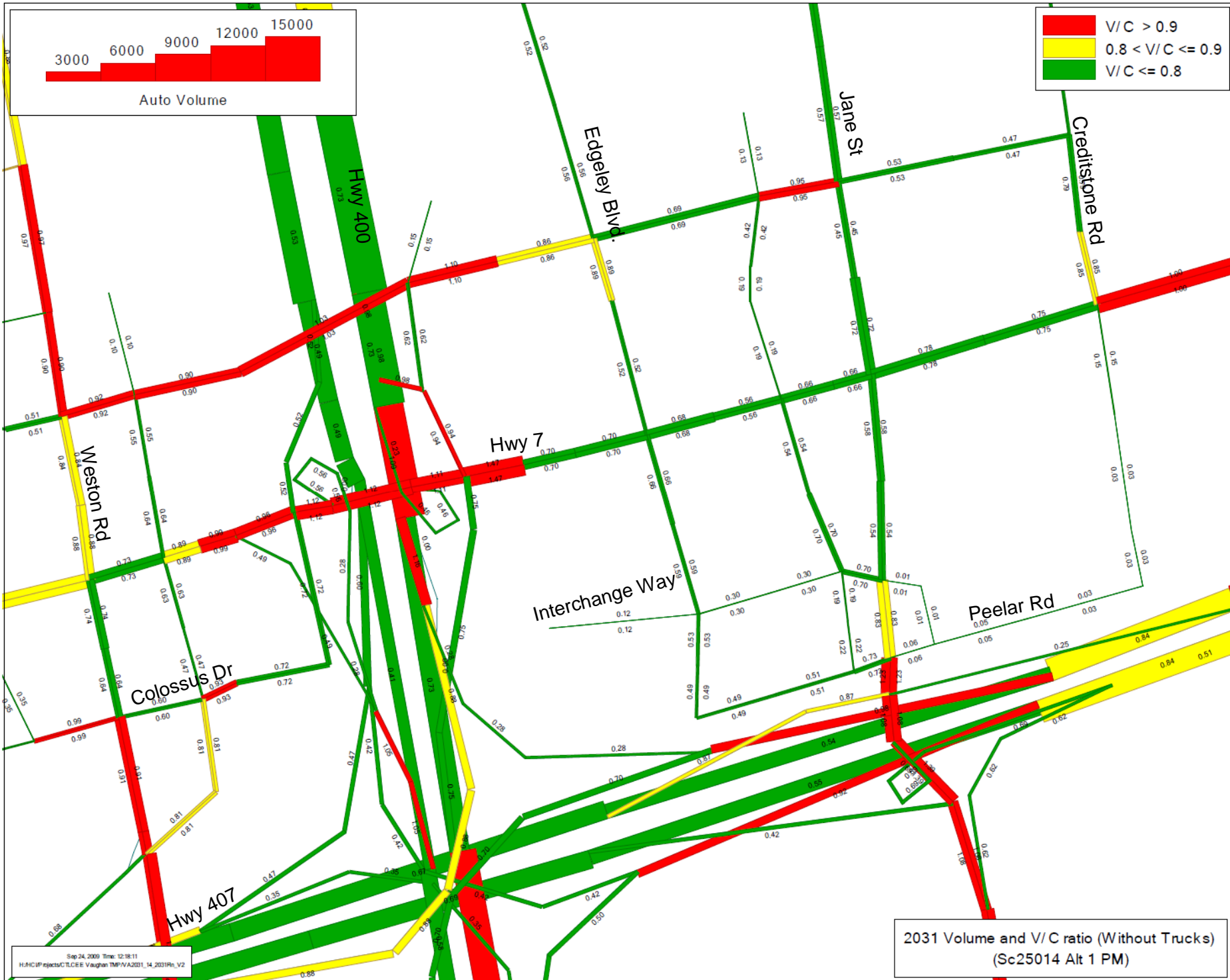
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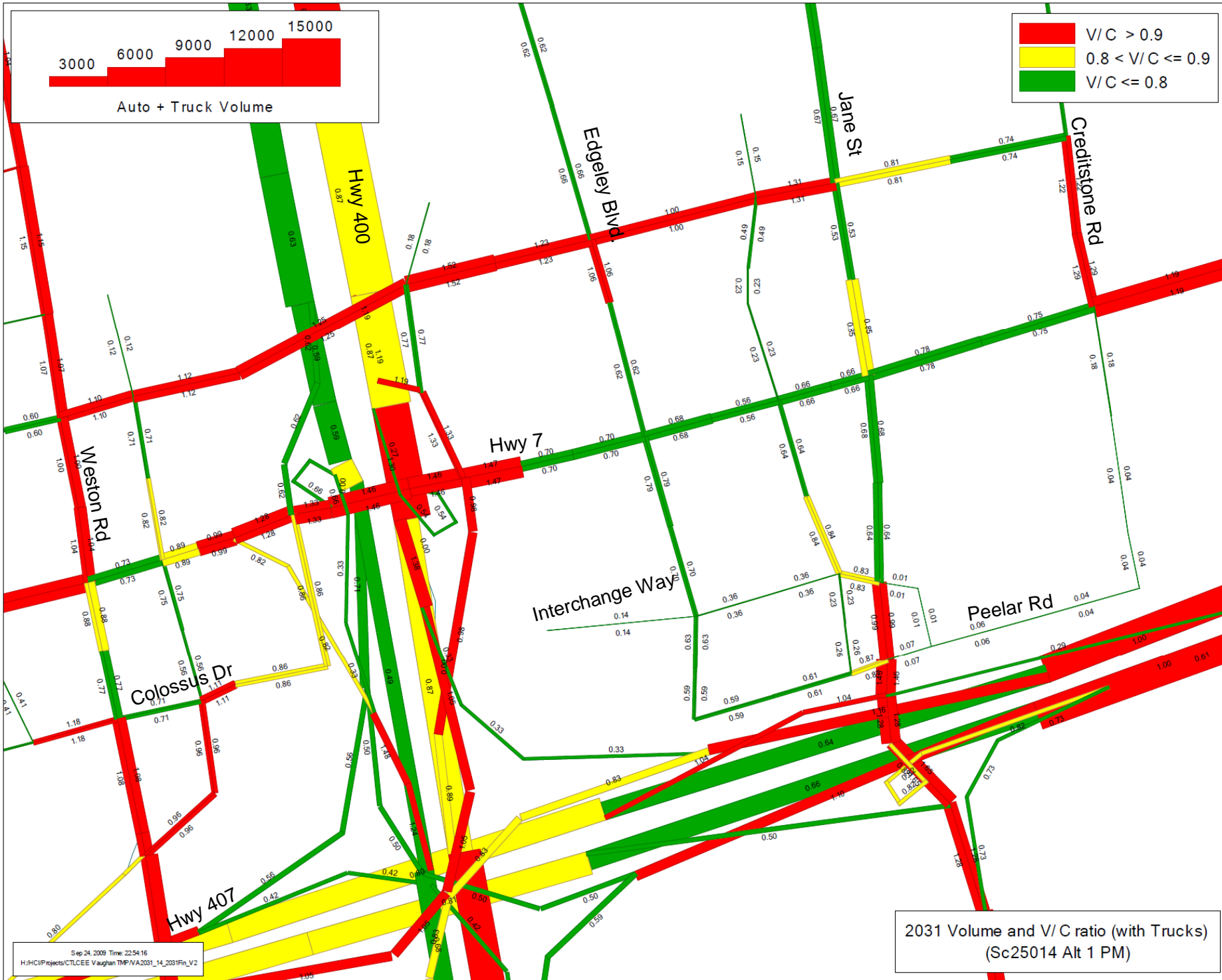
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2031 Auto + Truck Volume
 PCE Factor = 2.5
 (Sc25014 Alternative 1 PM)



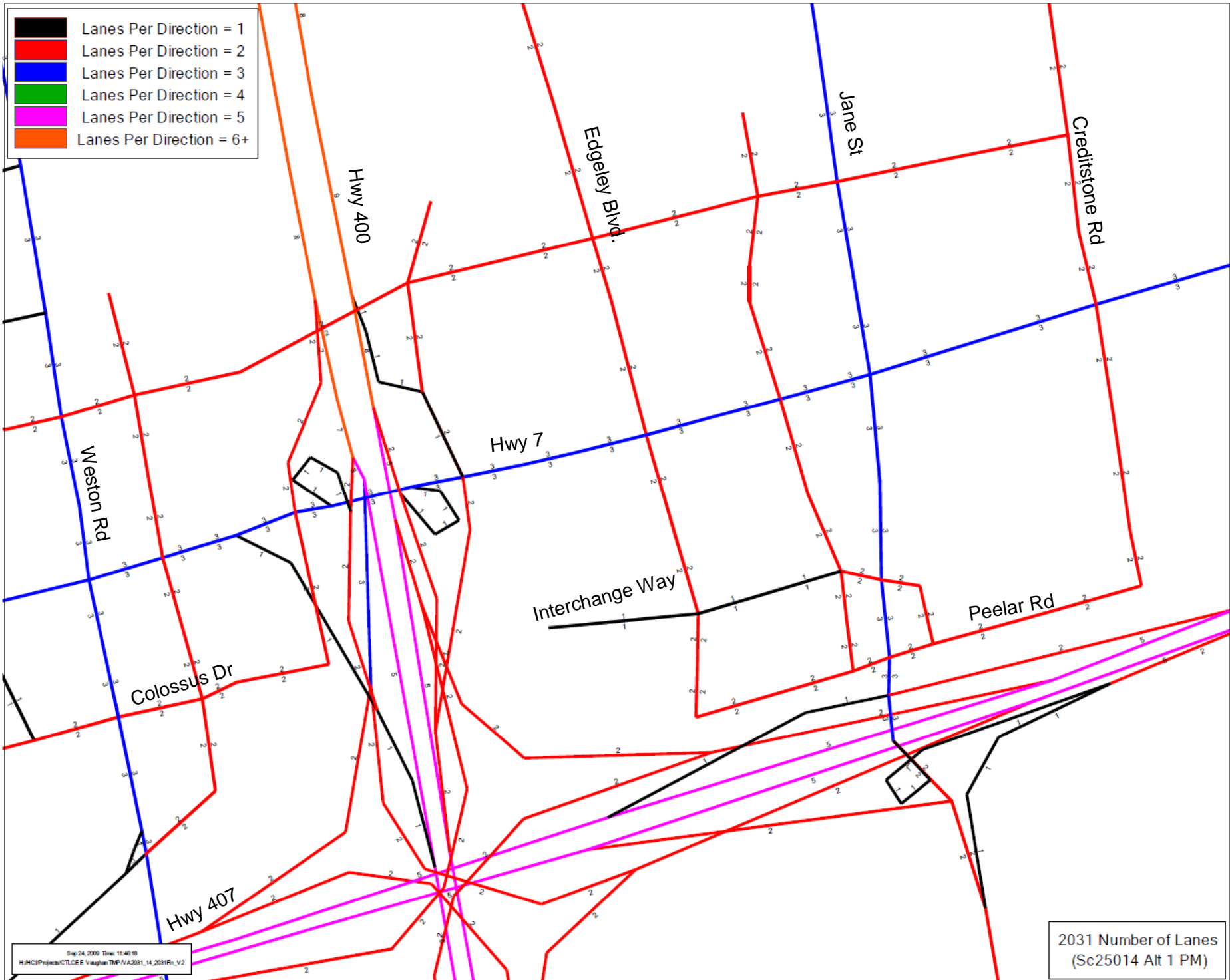
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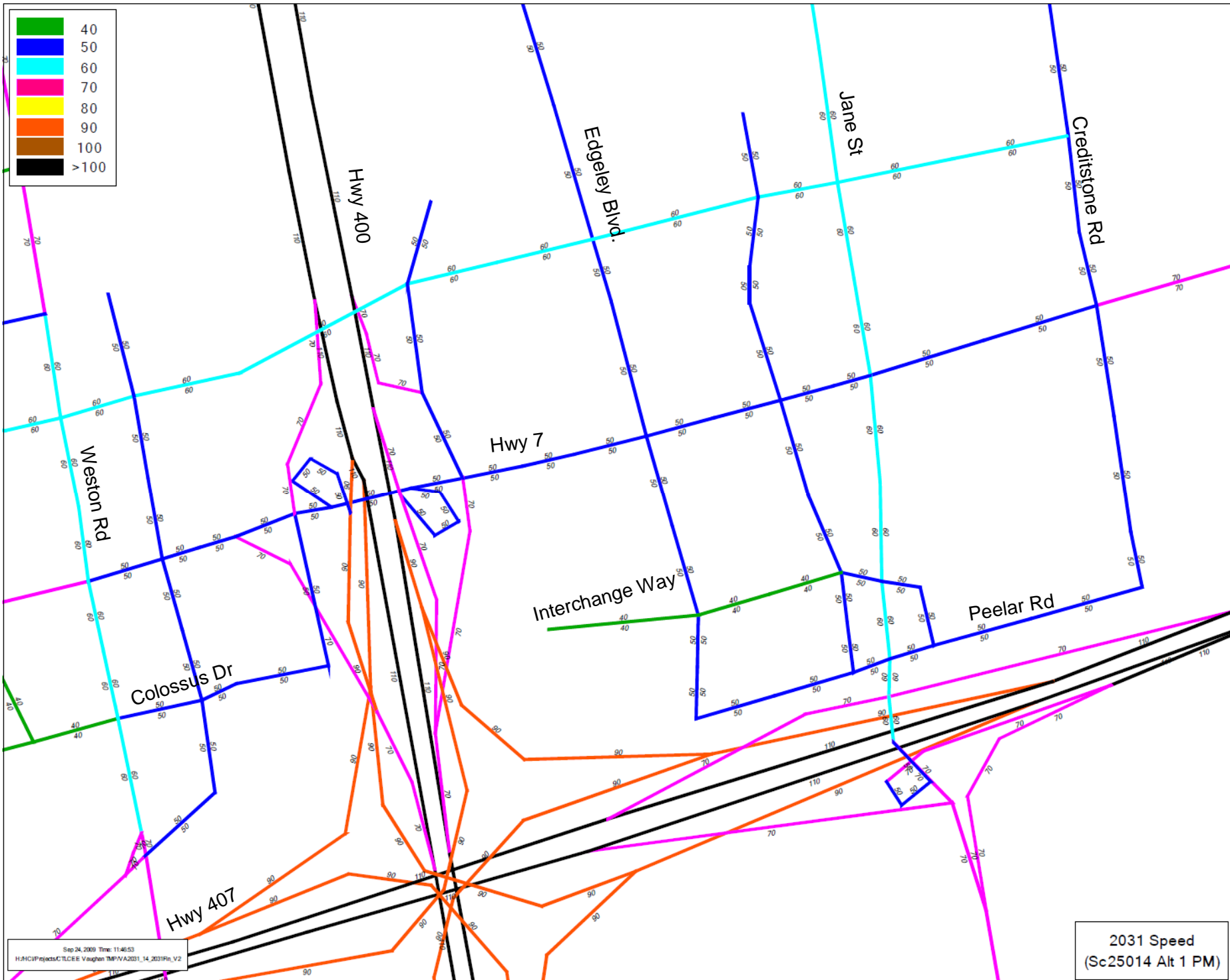
2031 Volume and V/C ratio (with Trucks)
 (Sc25014 Alt 1 PM)



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2031 Number of Lanes
 (Sc25014 Alt 1 PM)

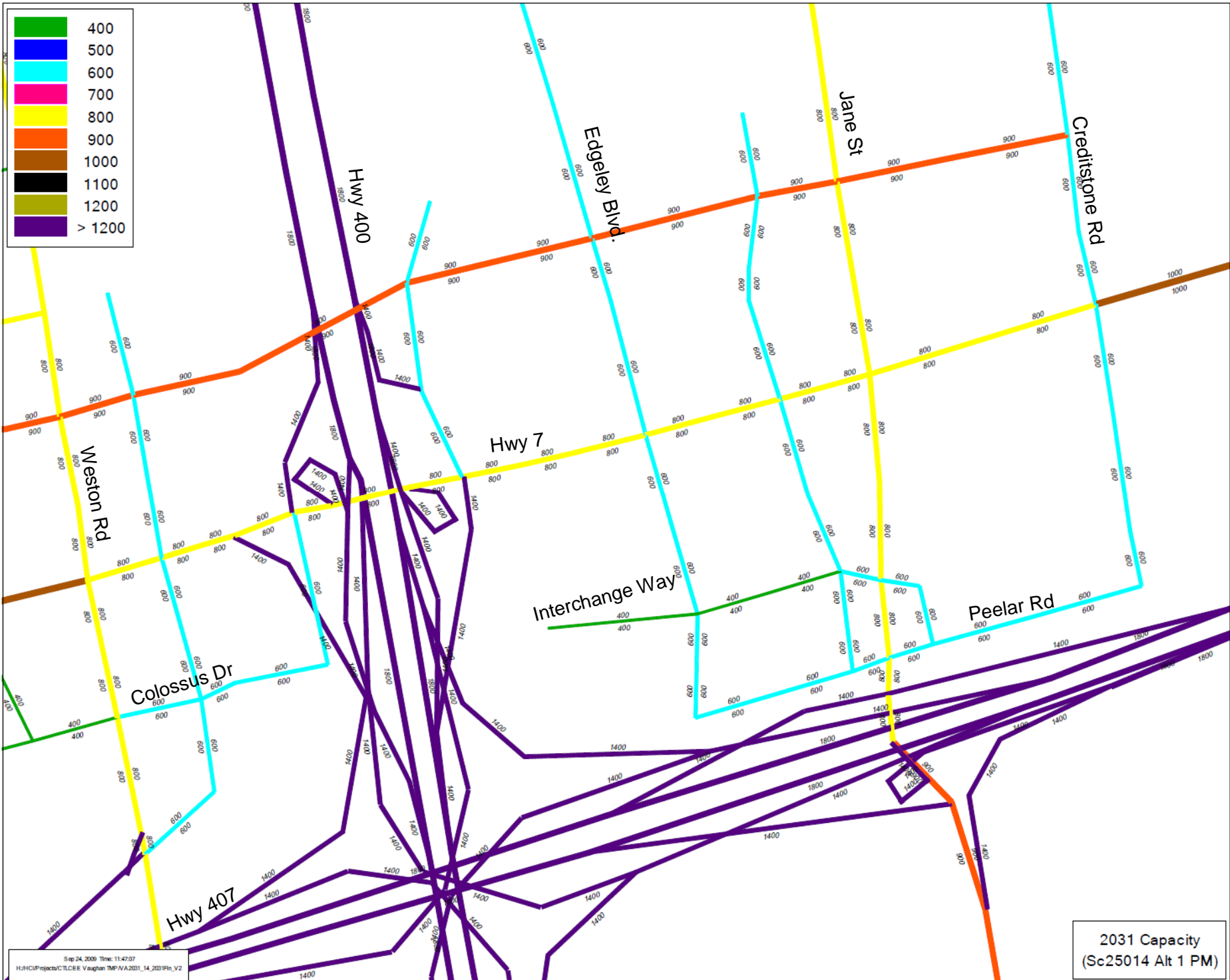
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2031 Speed
(Sc25014 Alt 1 PM)

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2031 Capacity
 (Sc25014 Alt 1 PM)

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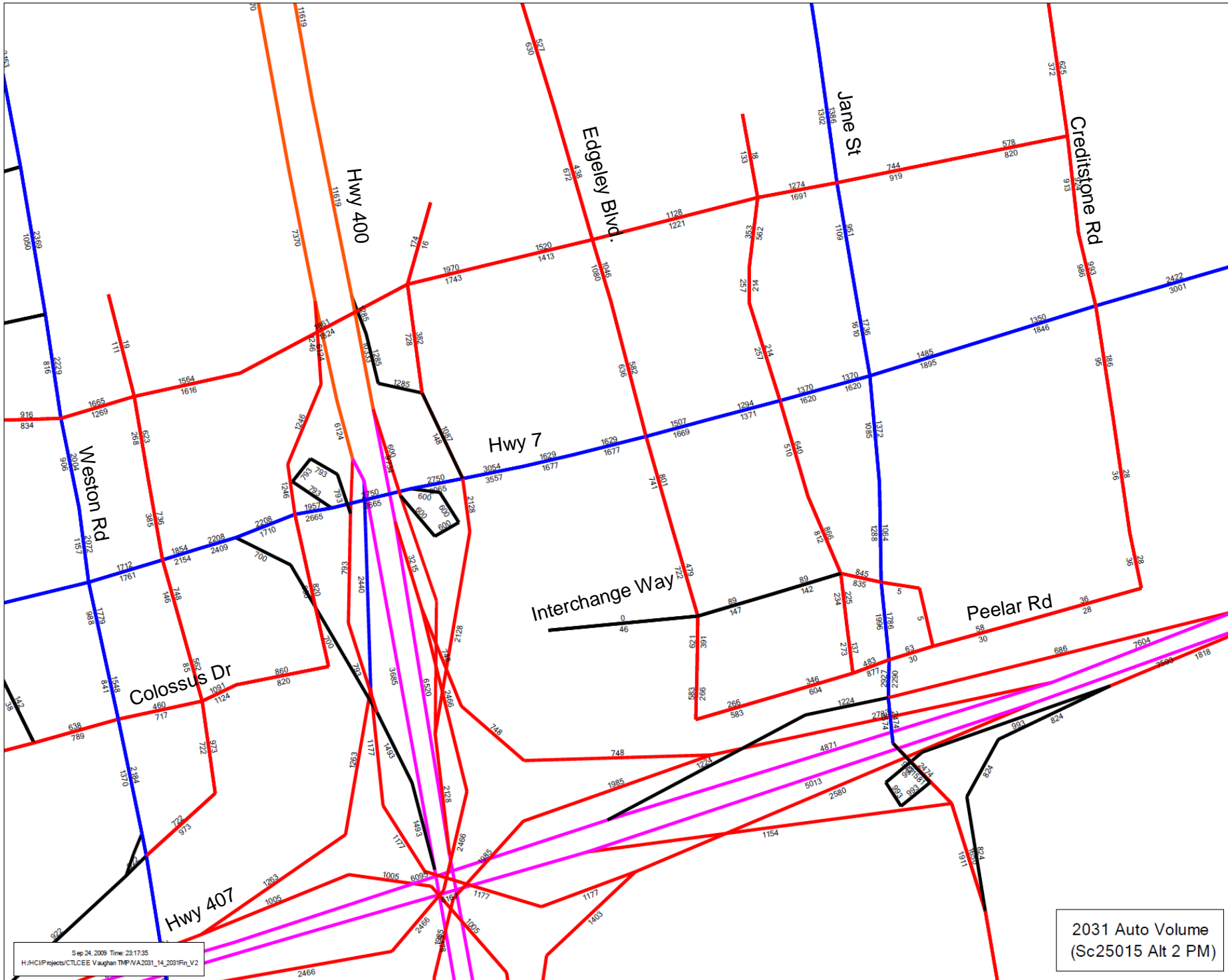
Sc 25015

2031 Horizon Year

PM Peak

Alternative 2

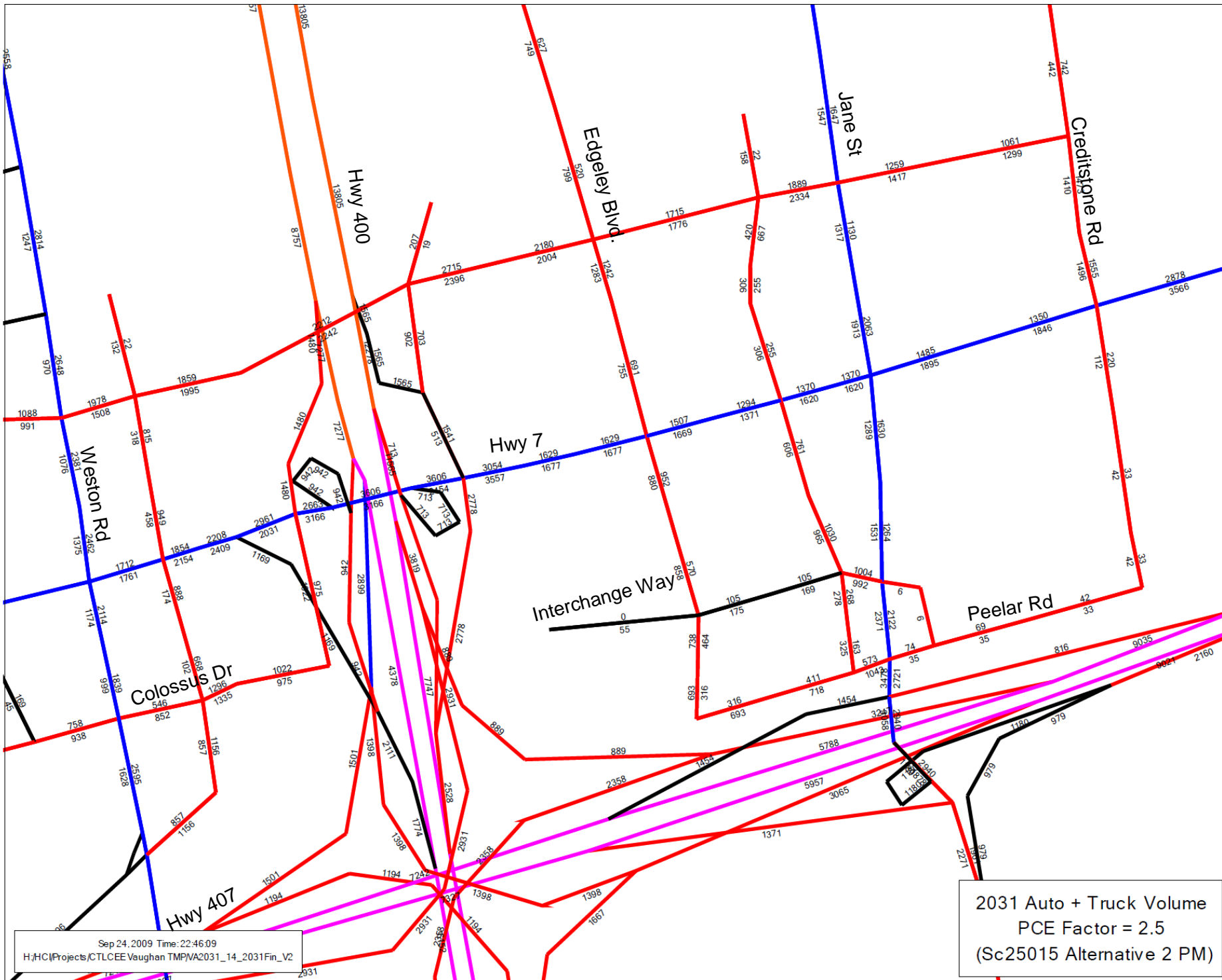
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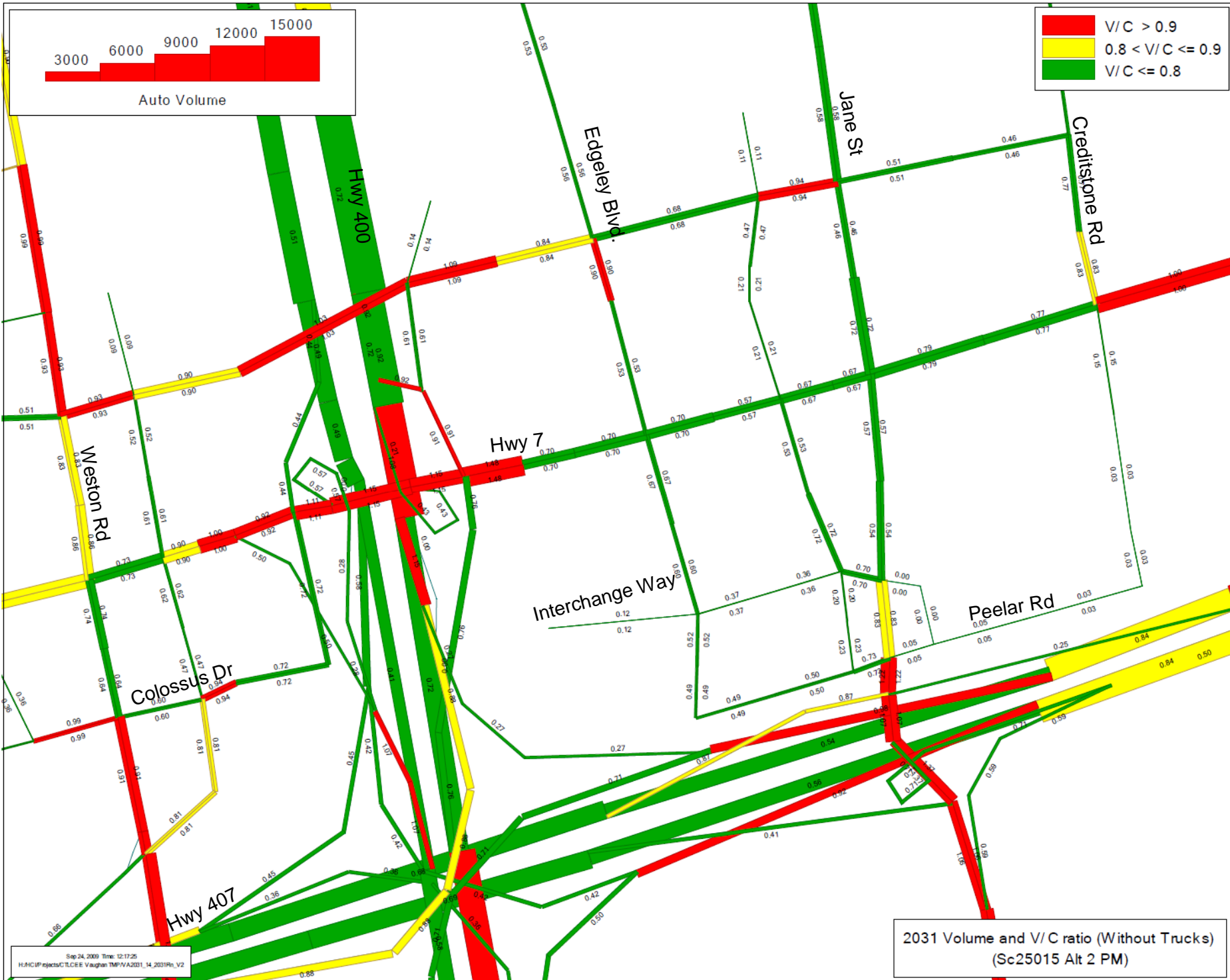
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2031 Auto Volume
(Sc25015 Alt 2 PM)

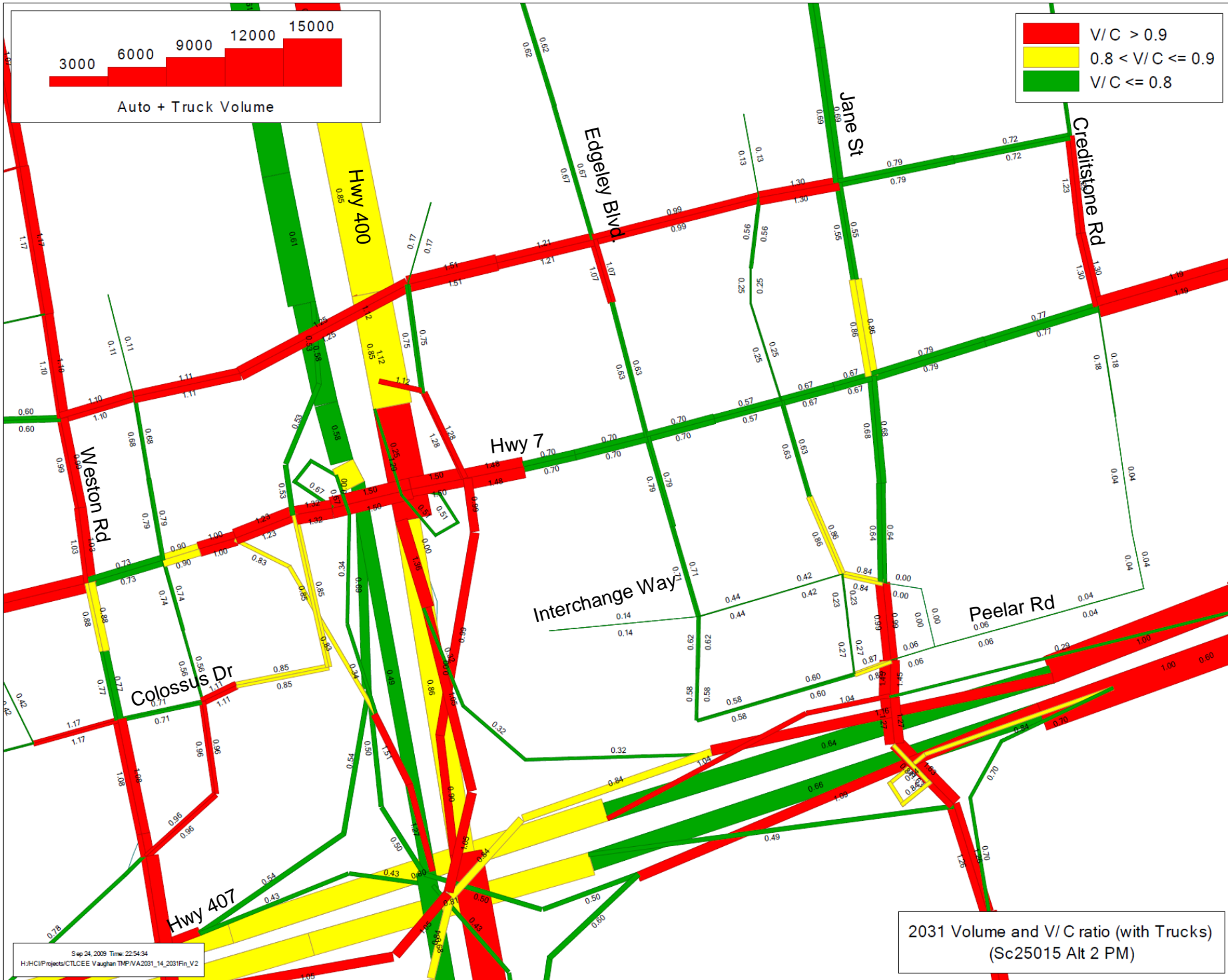
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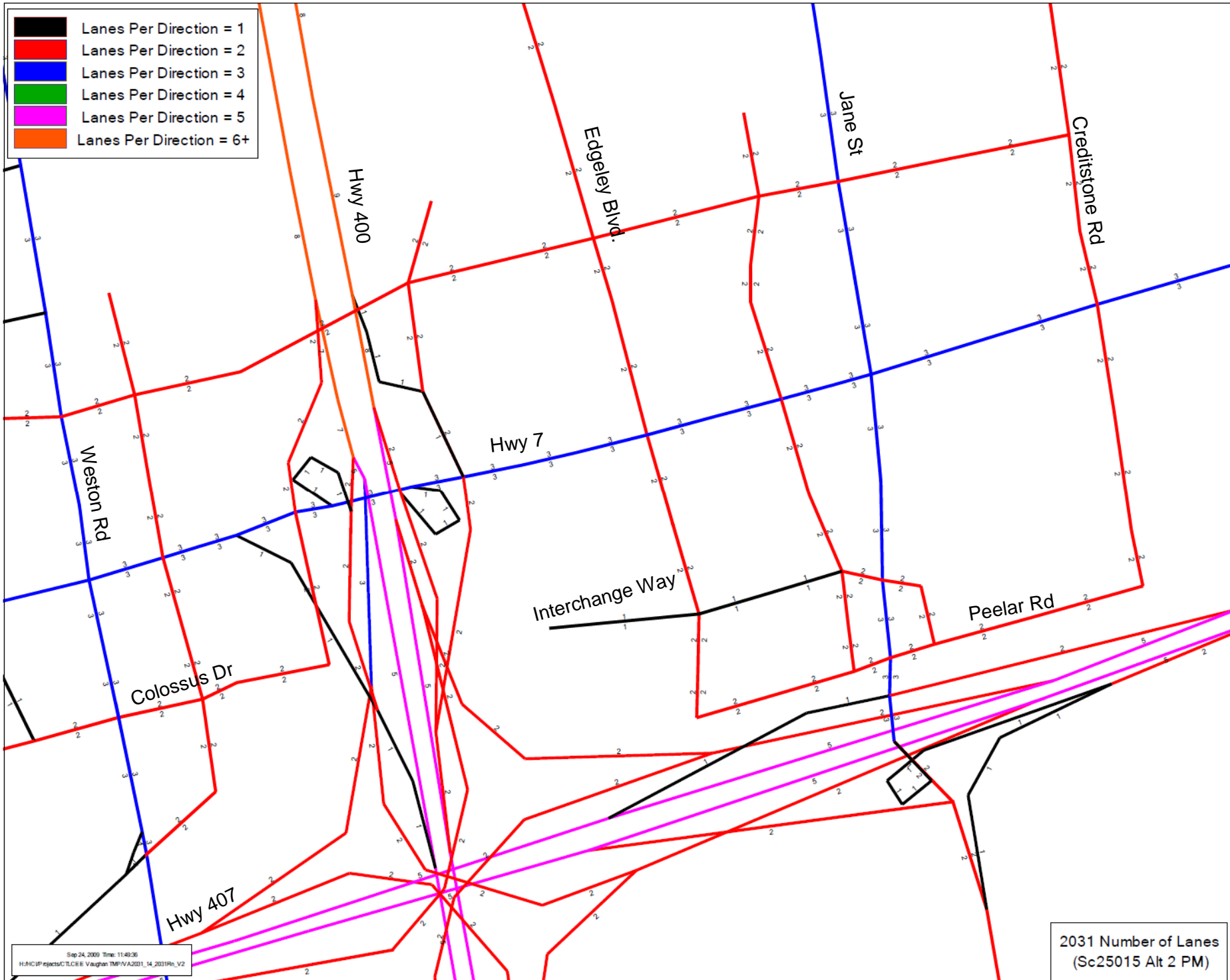
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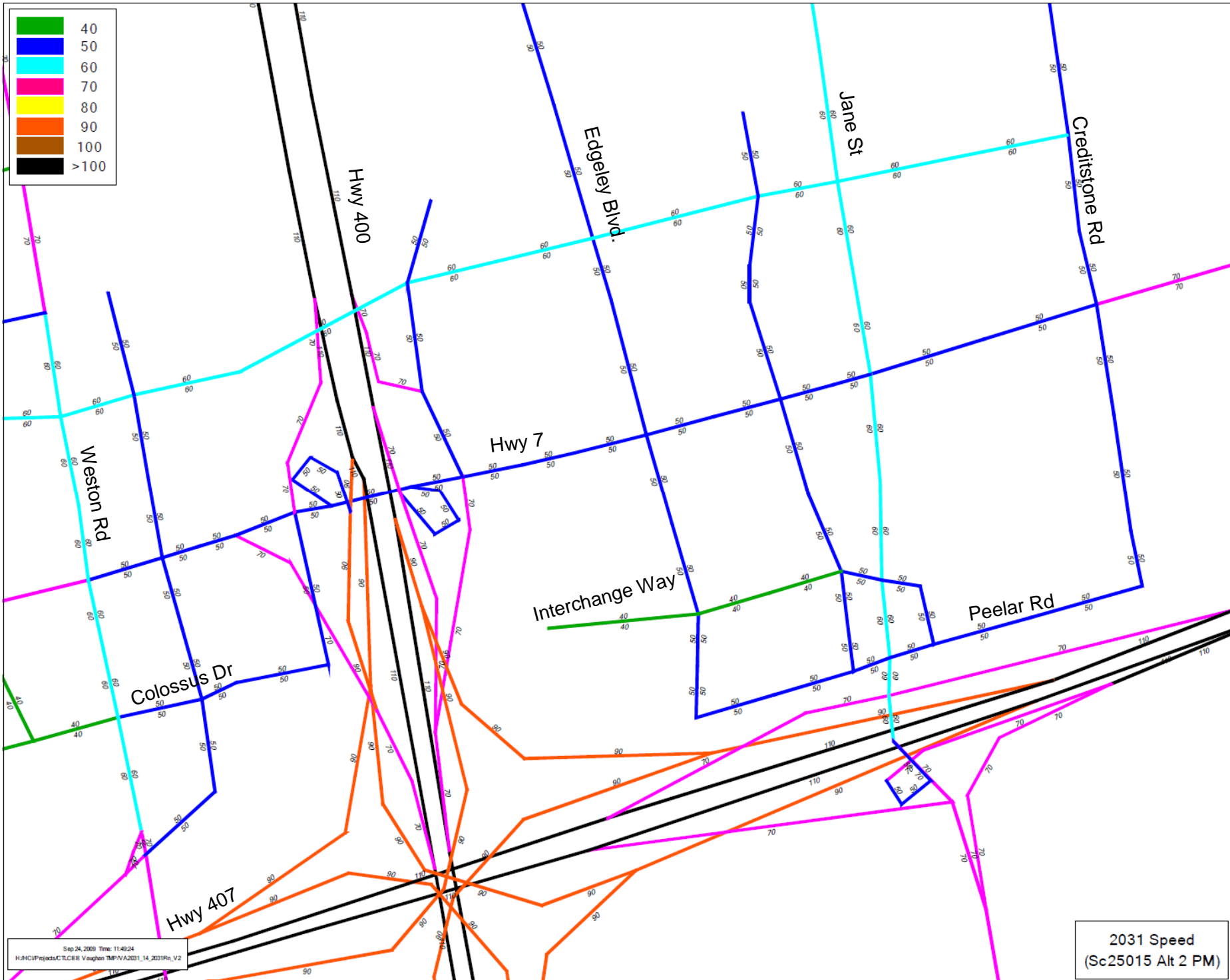
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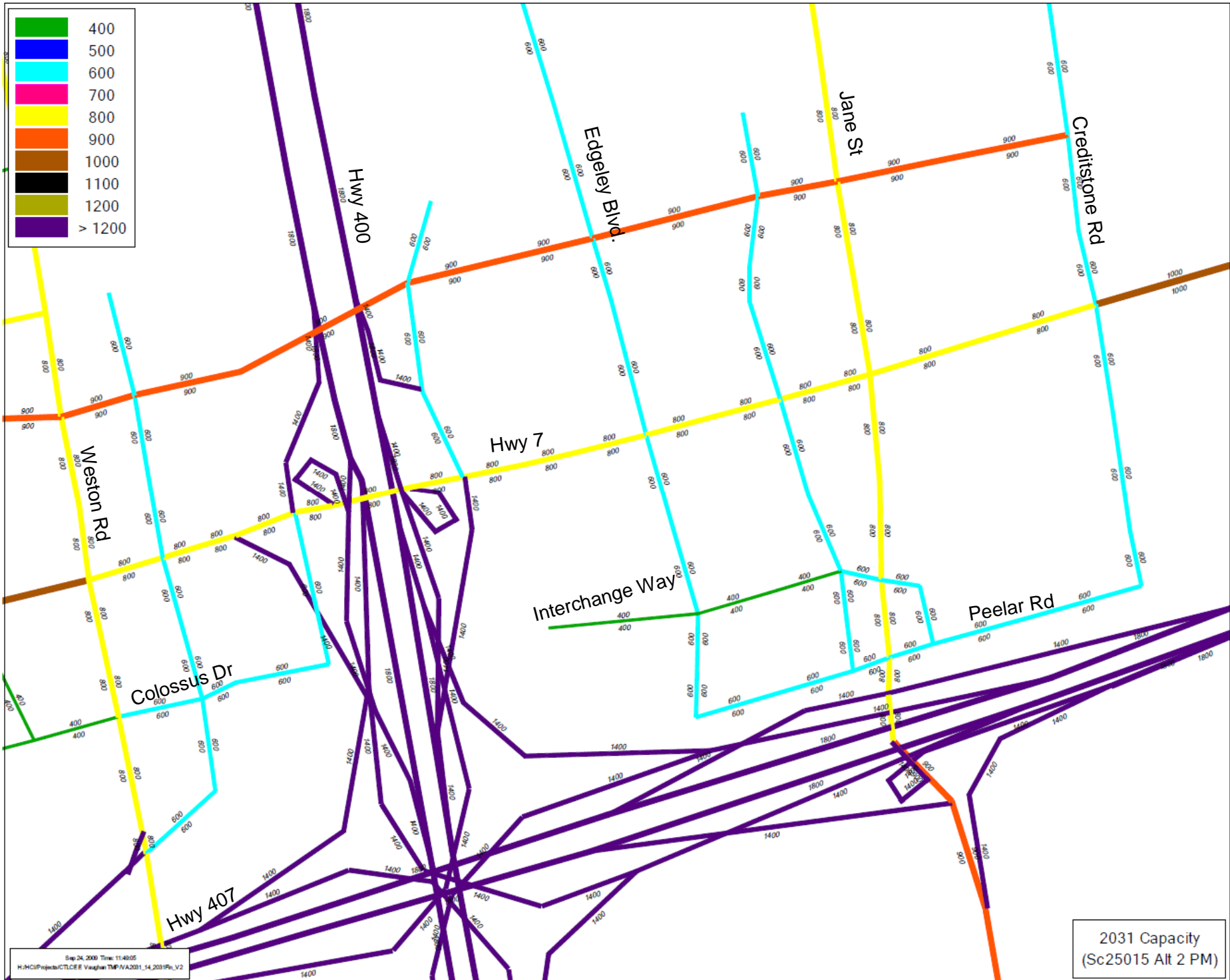
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2031 Number of Lanes
 (Sc25015 Alt 2 PM)

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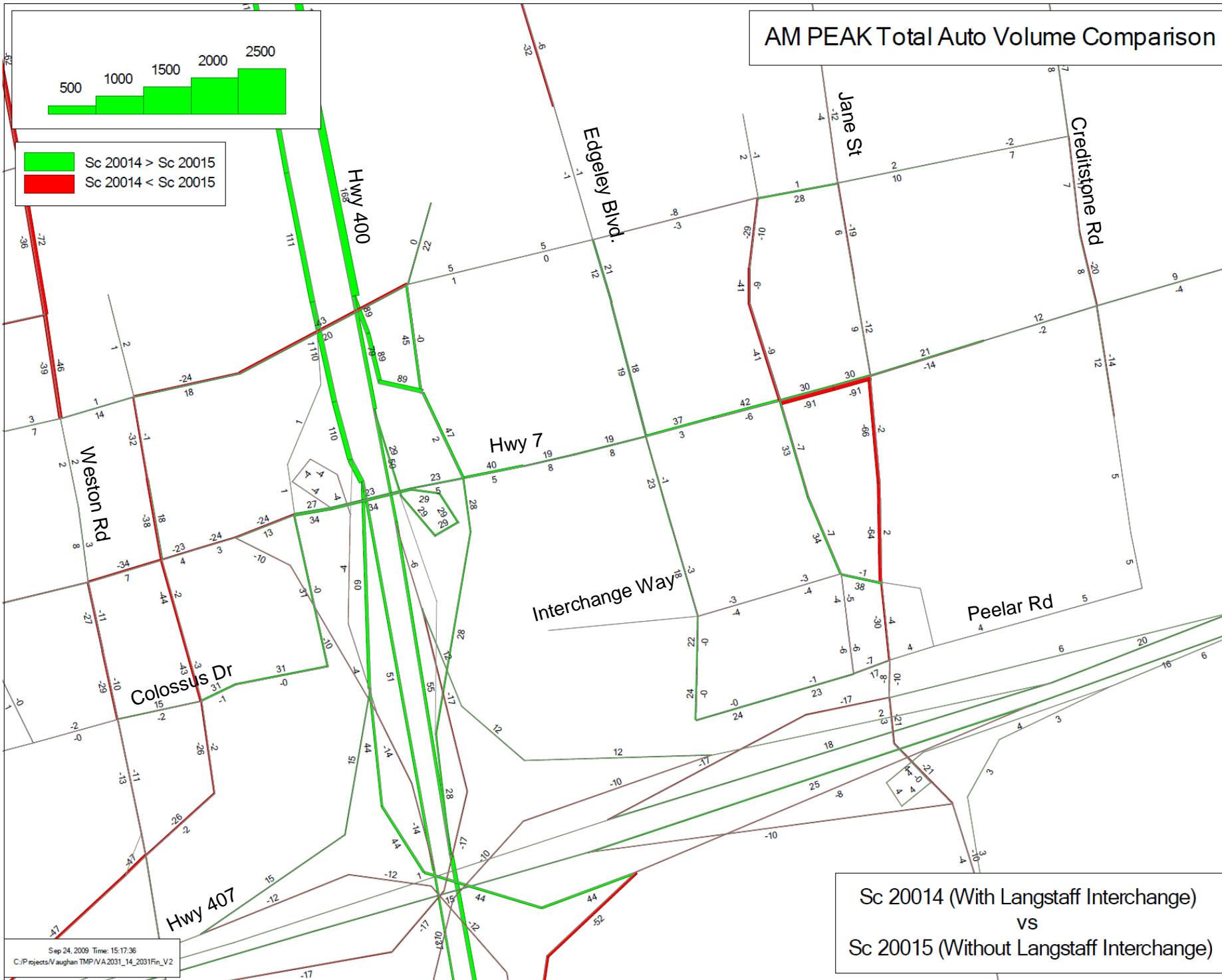
2031 Capacity
(Sc25015 Alt 2 PM)

Difference Plots

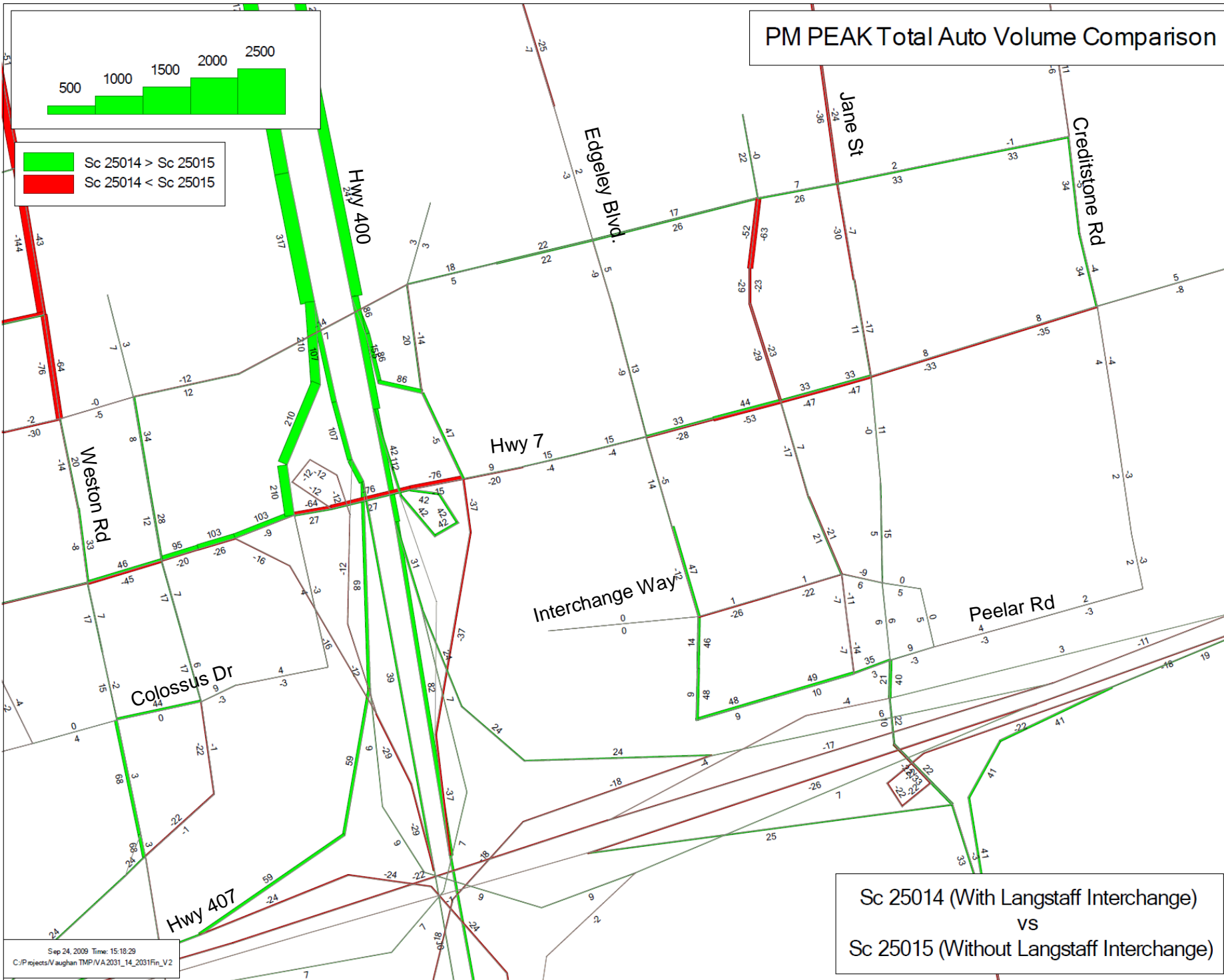
Sc20014 v Sc20015 (AM Peak: Alternative 1 v Alternative 2)

Sc25014 v Sc25015 (PM Peak: Alternative 1 v Alternative 2)

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Difference Plots

2031 AM PEAK

Sc20115 v 20015 (Alt 2 with Langstaff Bridge v. Alt 2)

Sc20215 v 20015 (Alt 2 with Colossus Bridge v. Alt 2)

Sc20315 v 20015 (Alt 2 with Langstaff & Colossus Bridge v. Alt 2)

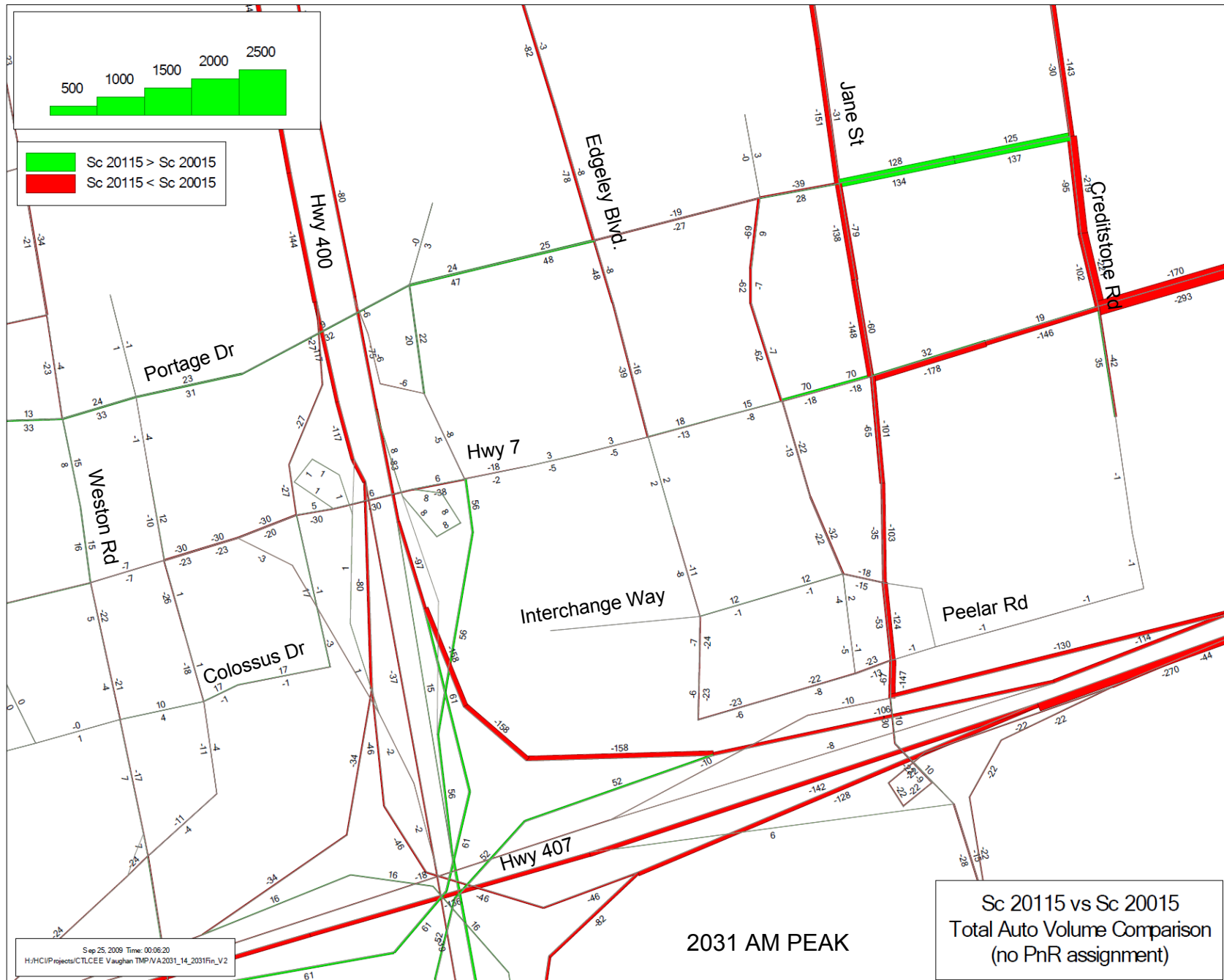
2031 PM PEAK

Sc25115 v 25015 (Alt 2 with Langstaff Bridge v. Alt 2)

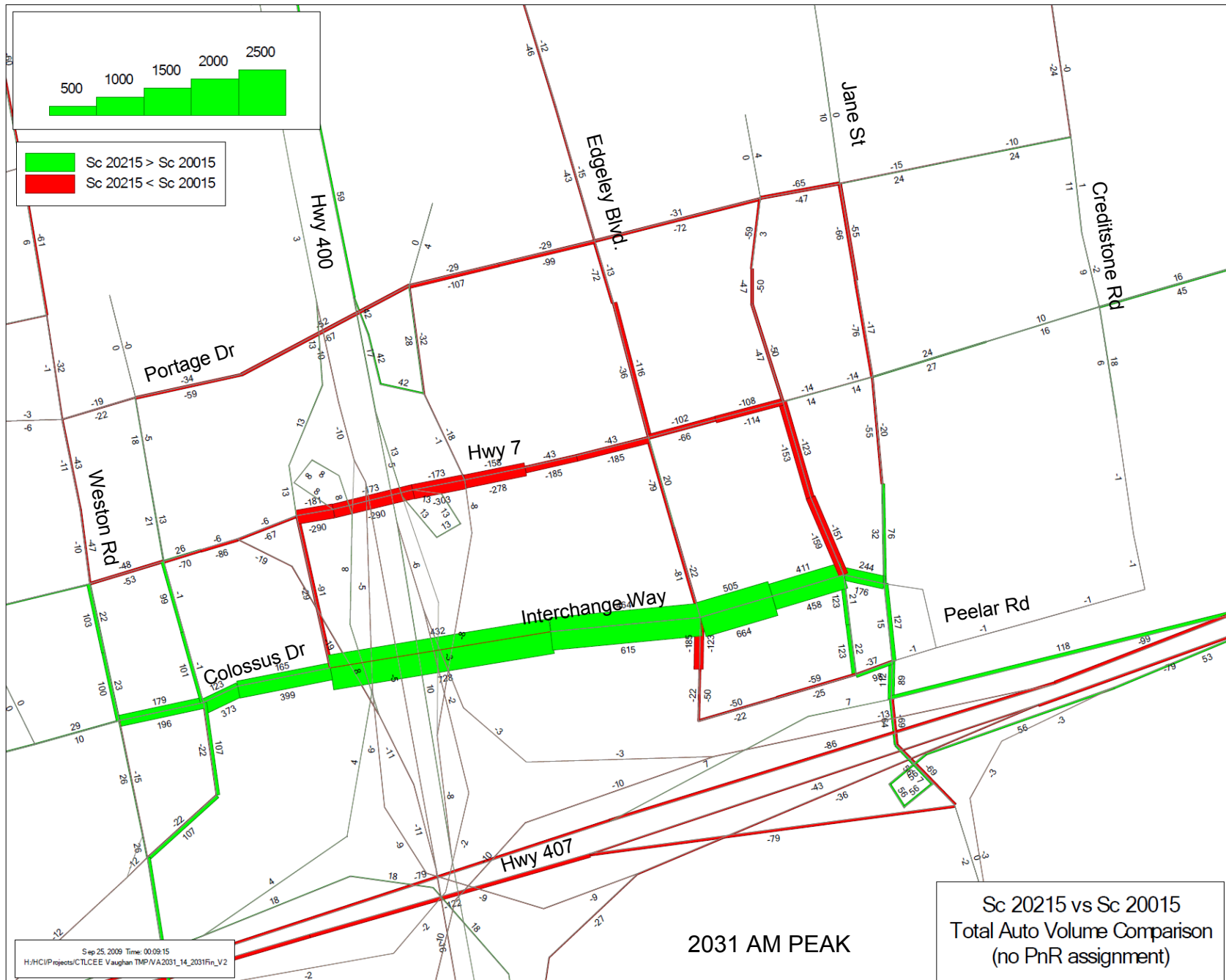
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Sc25315 v 25015 (Alt 2 with Langstaff & Colossus Bridge v. Alt 2)

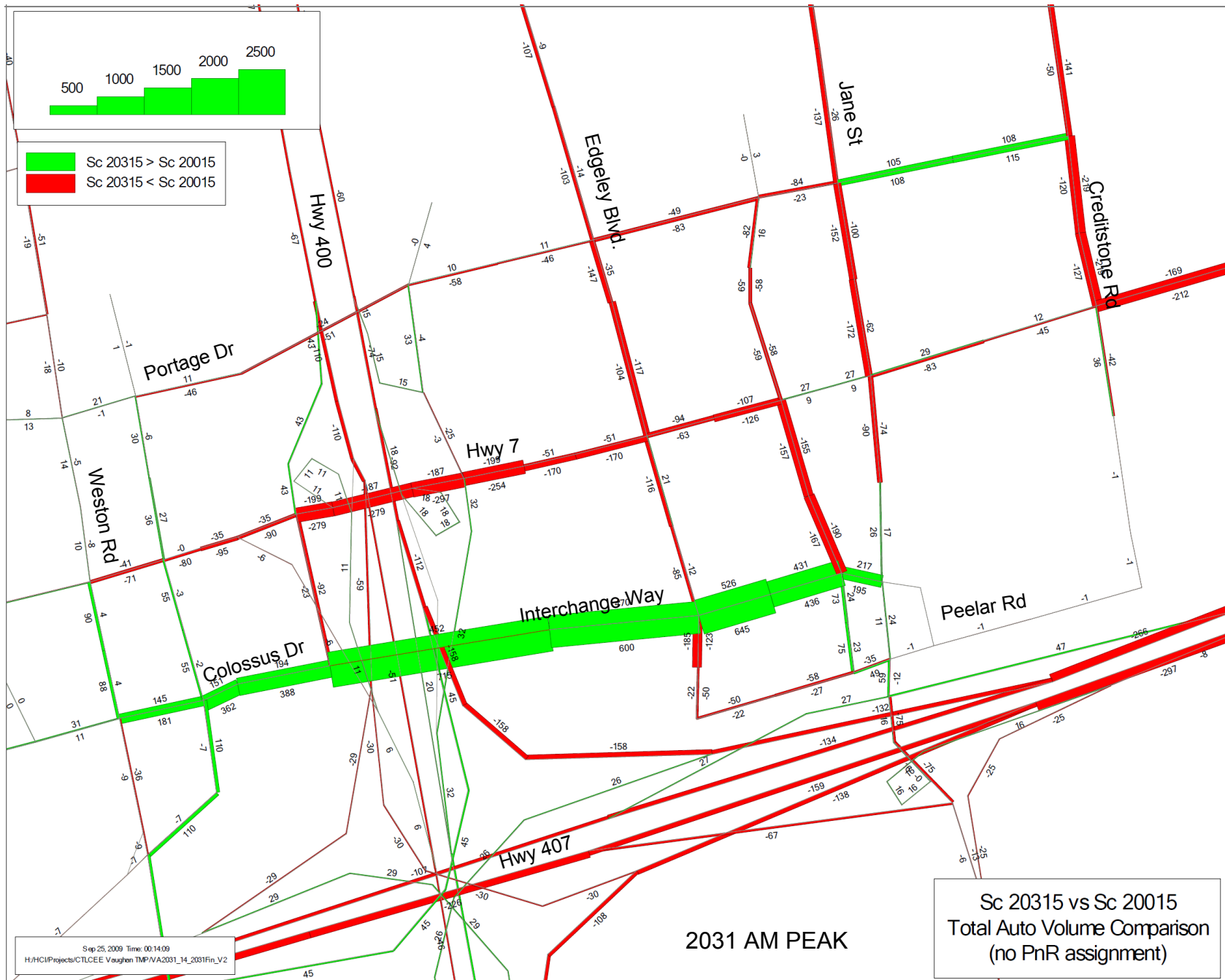
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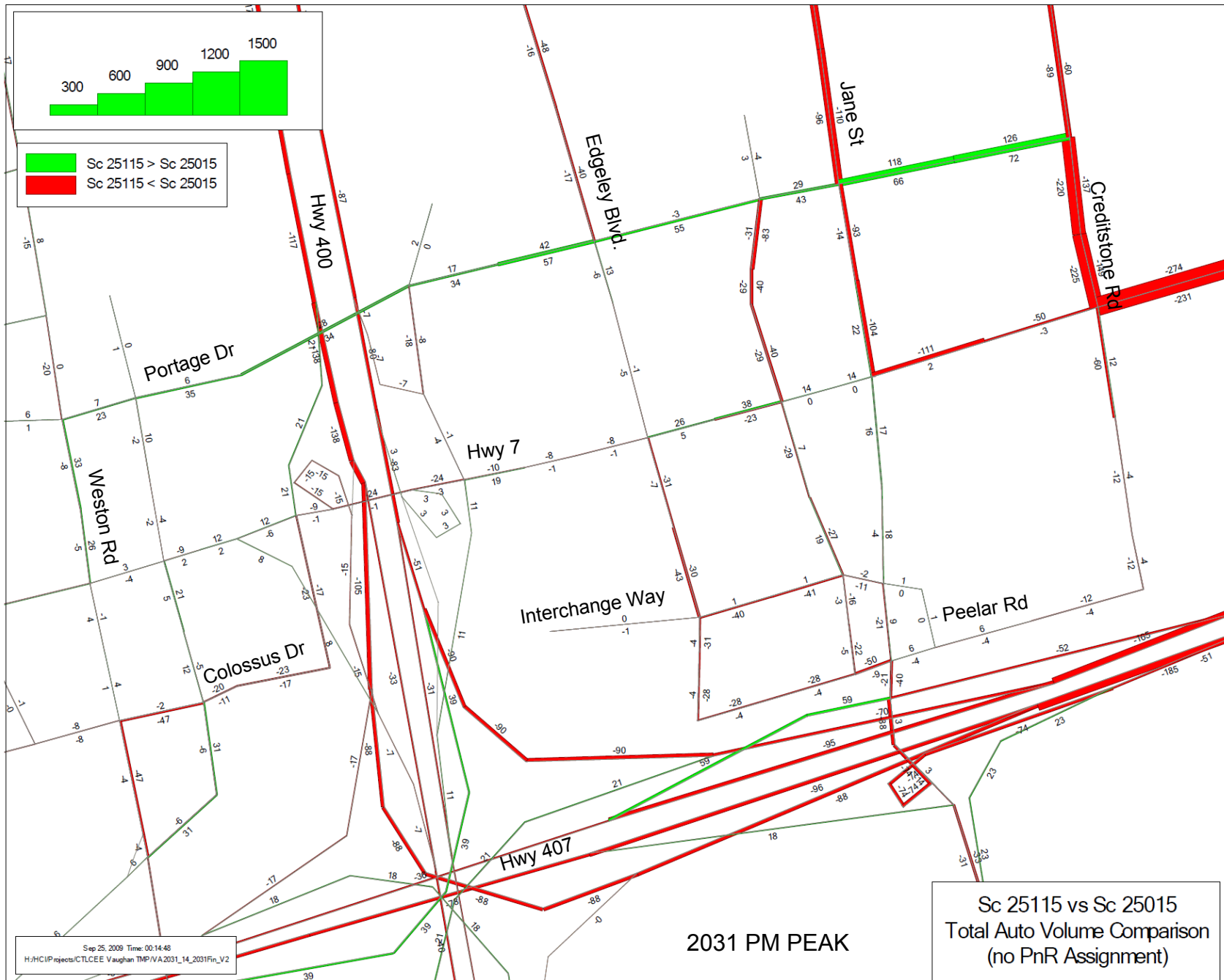
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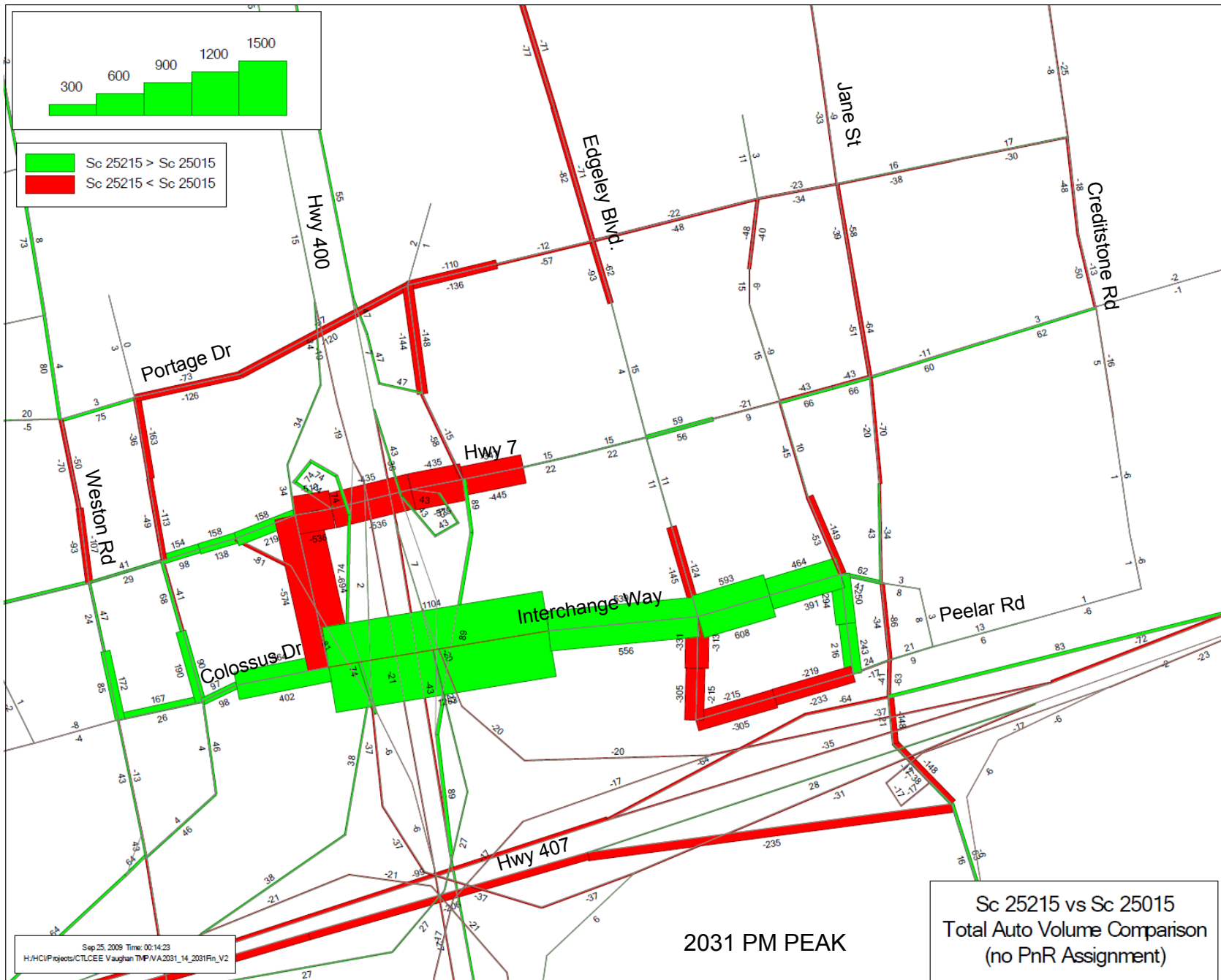
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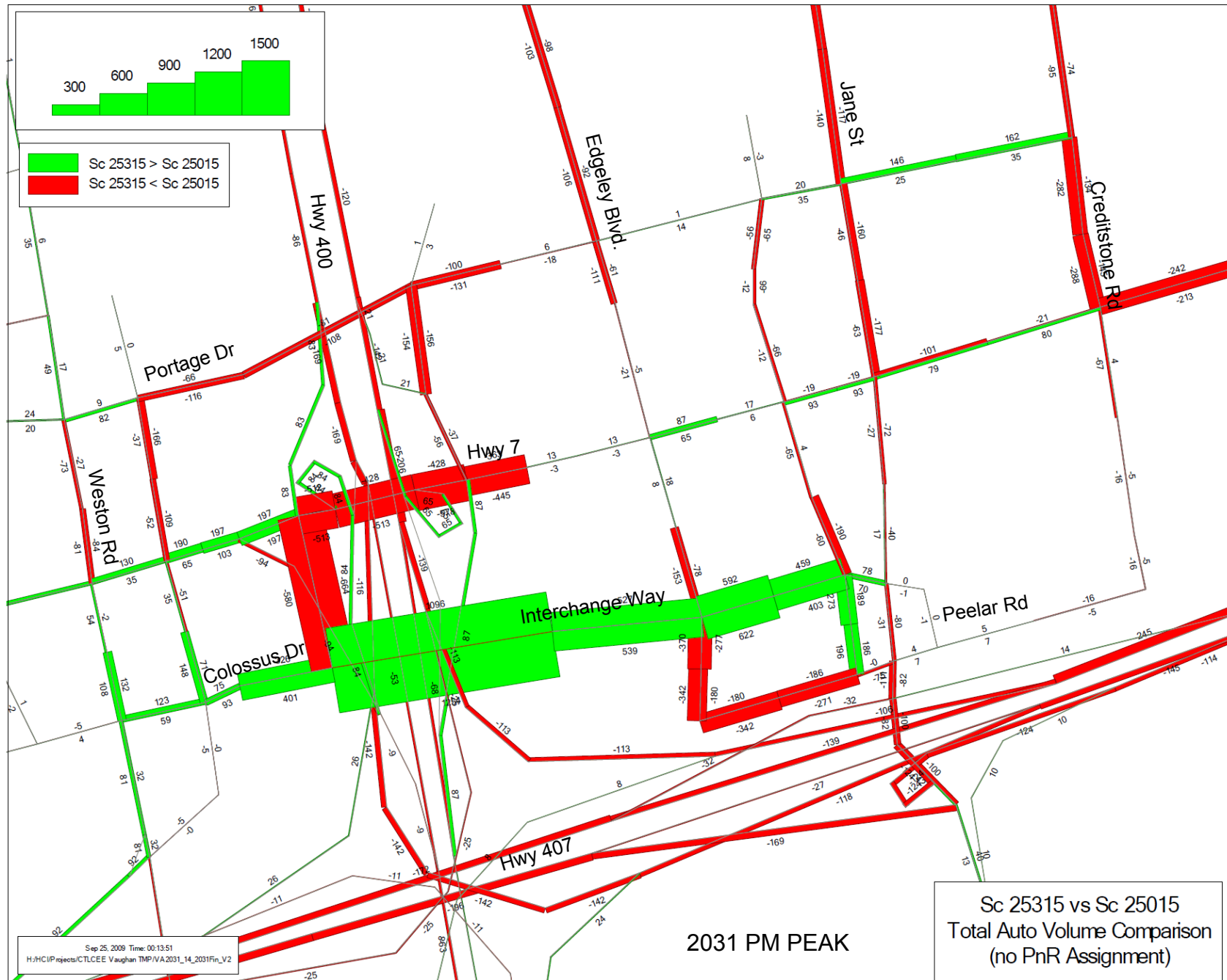
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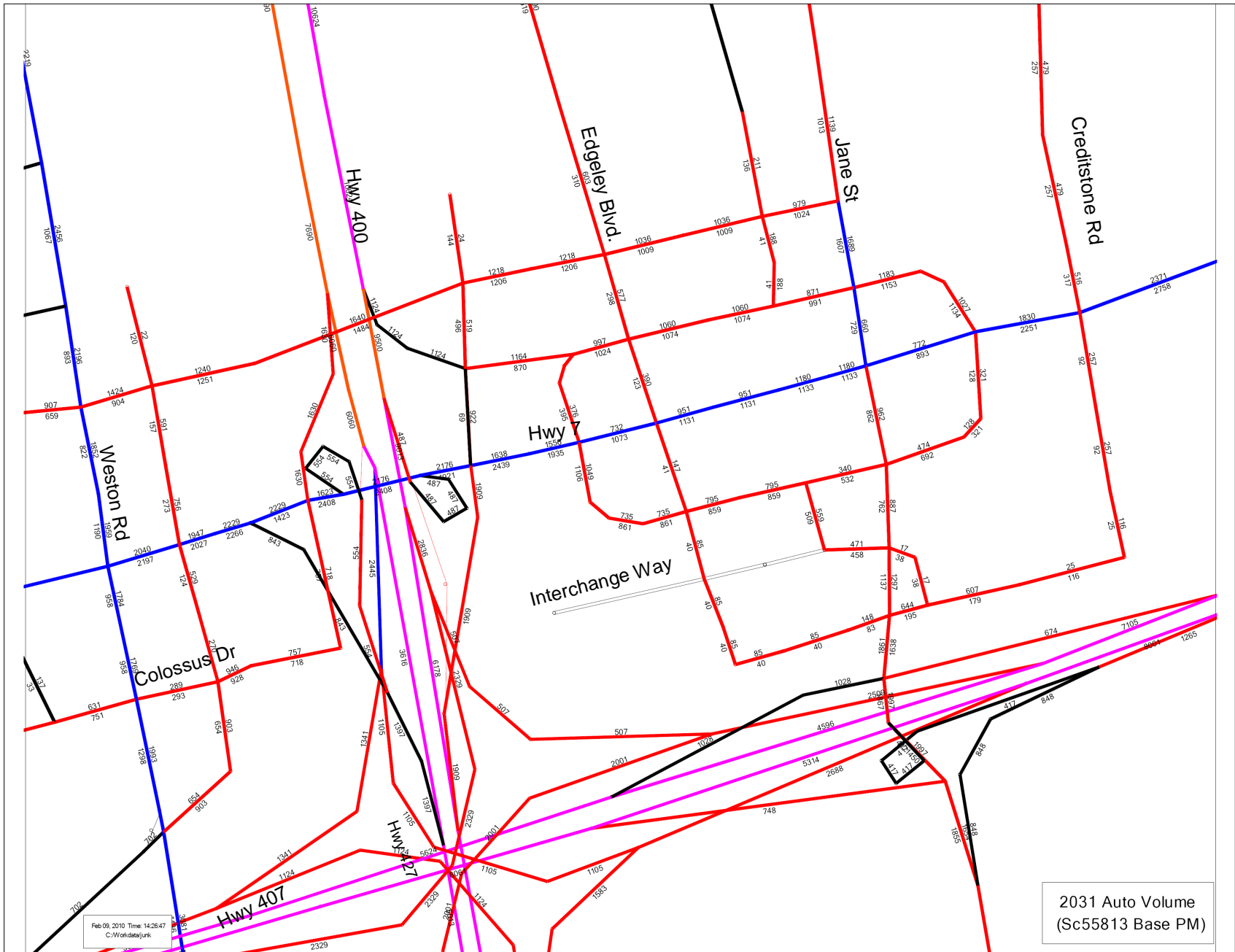


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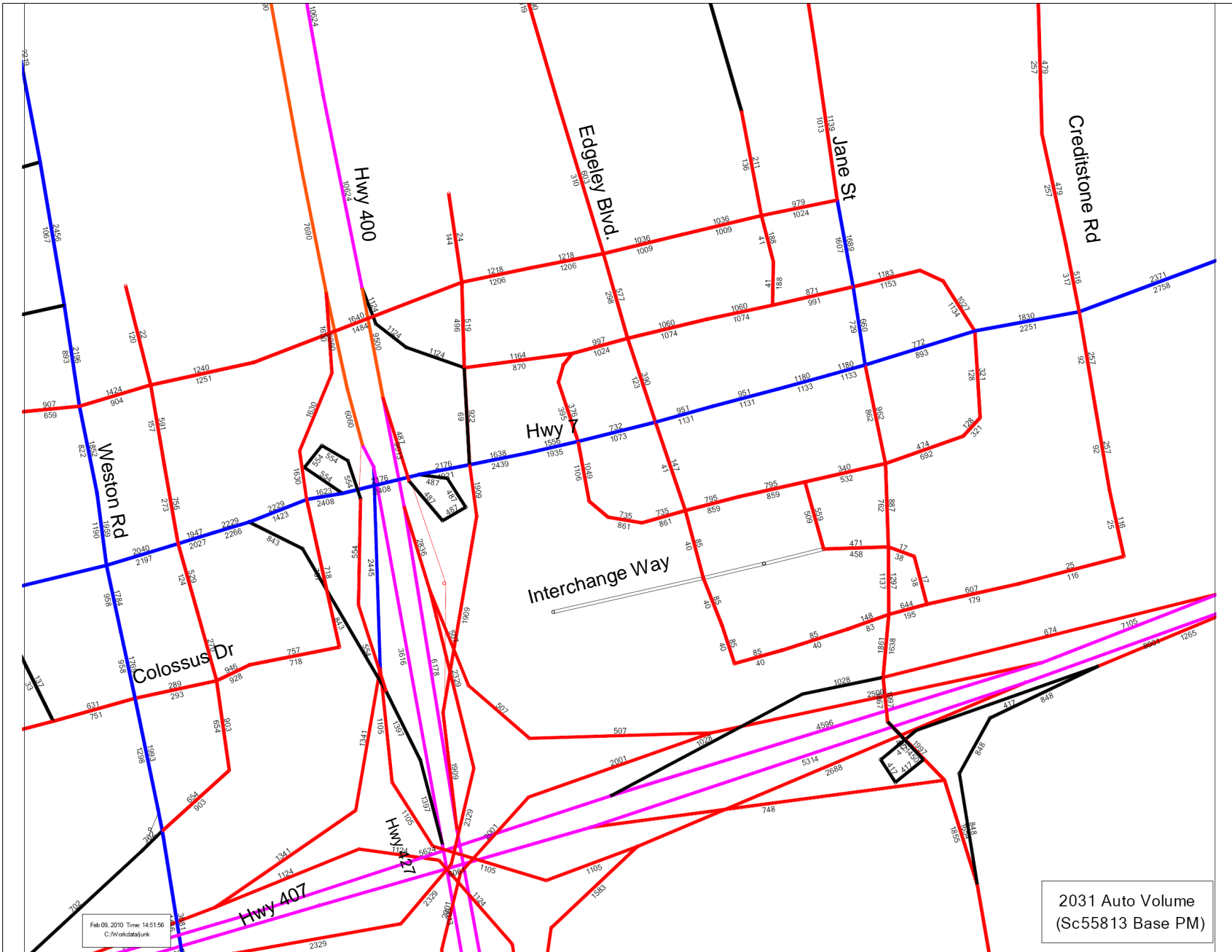


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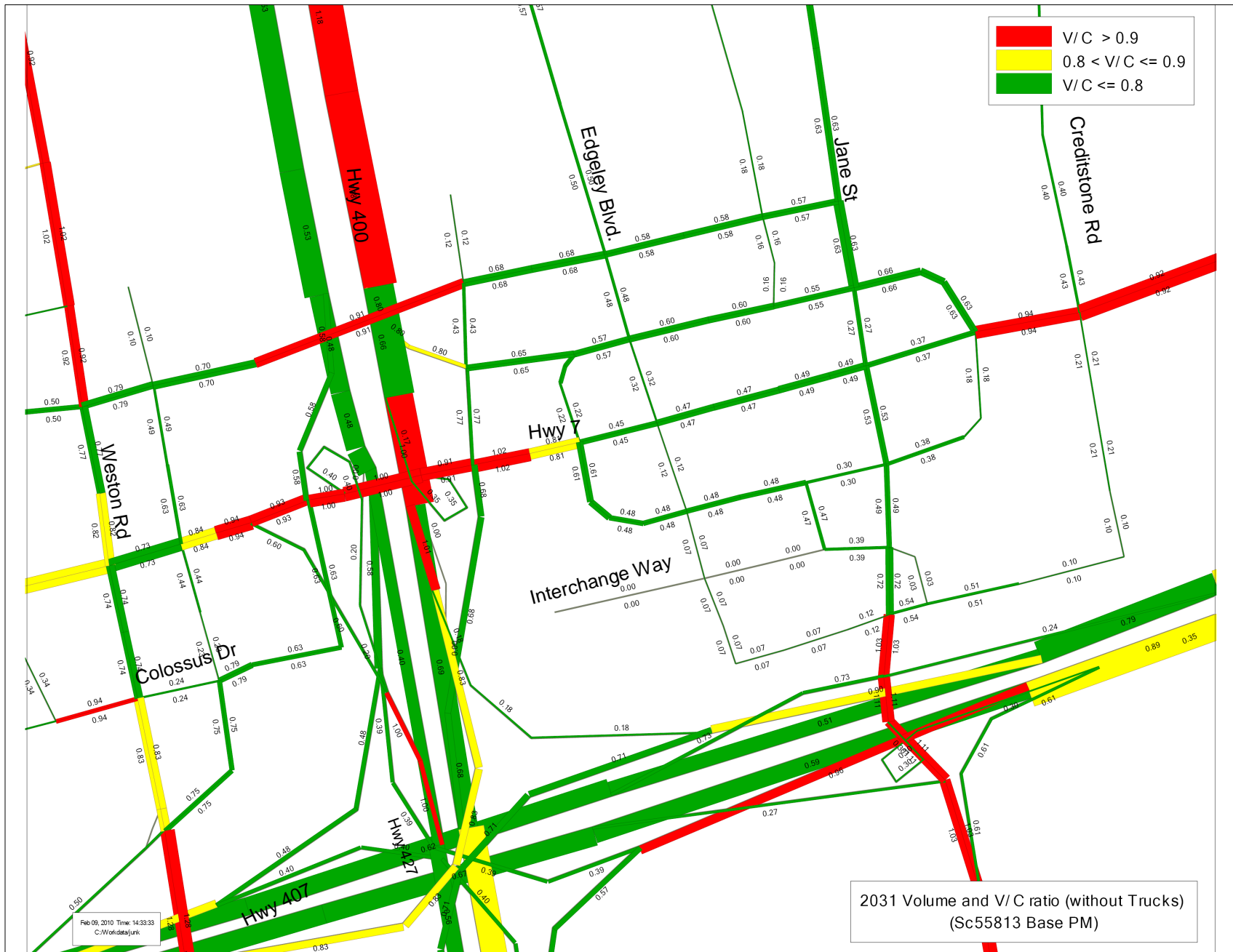
**4. 2031 Base Road Network
EMME Results Package,
AM and PM Peak Hour**



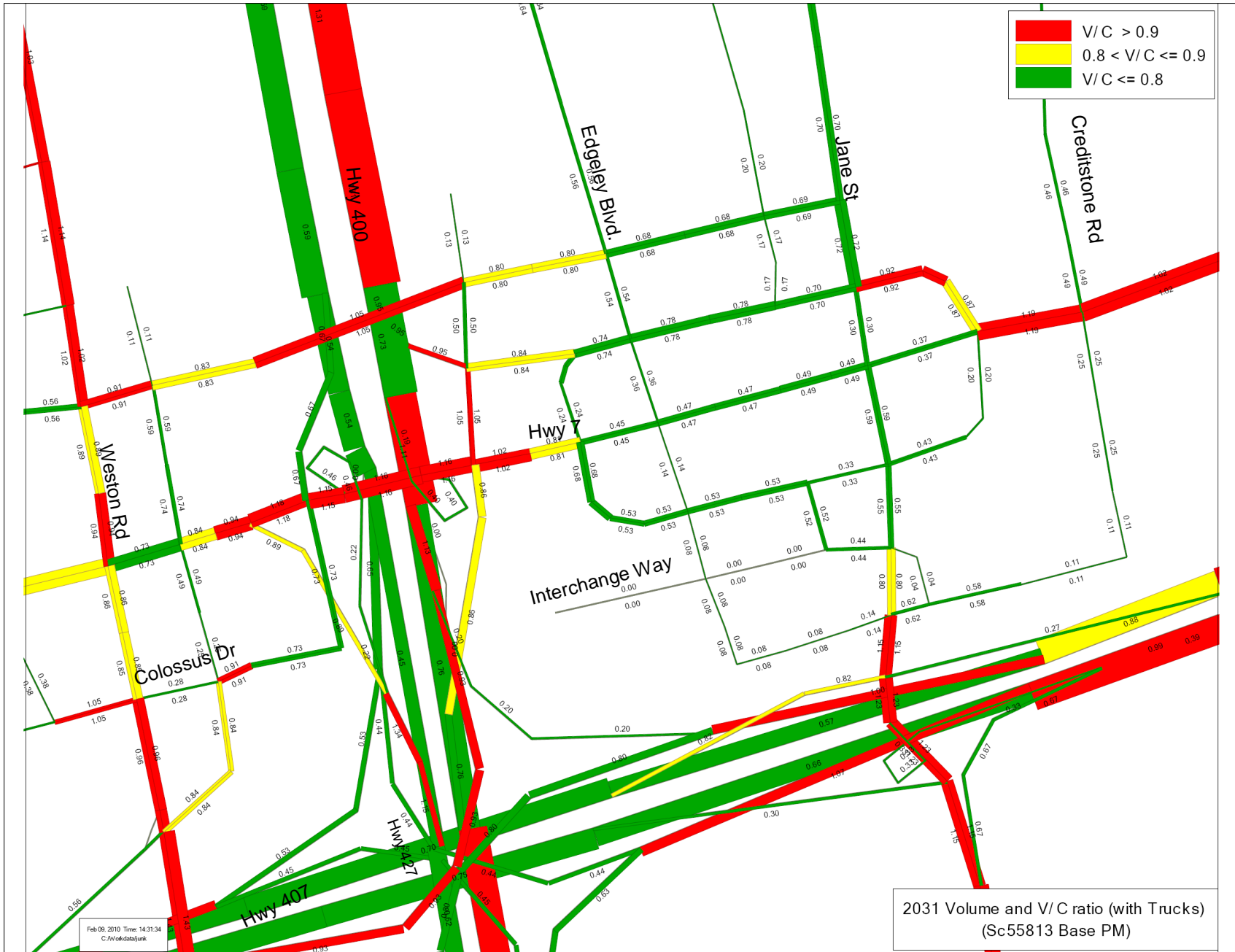
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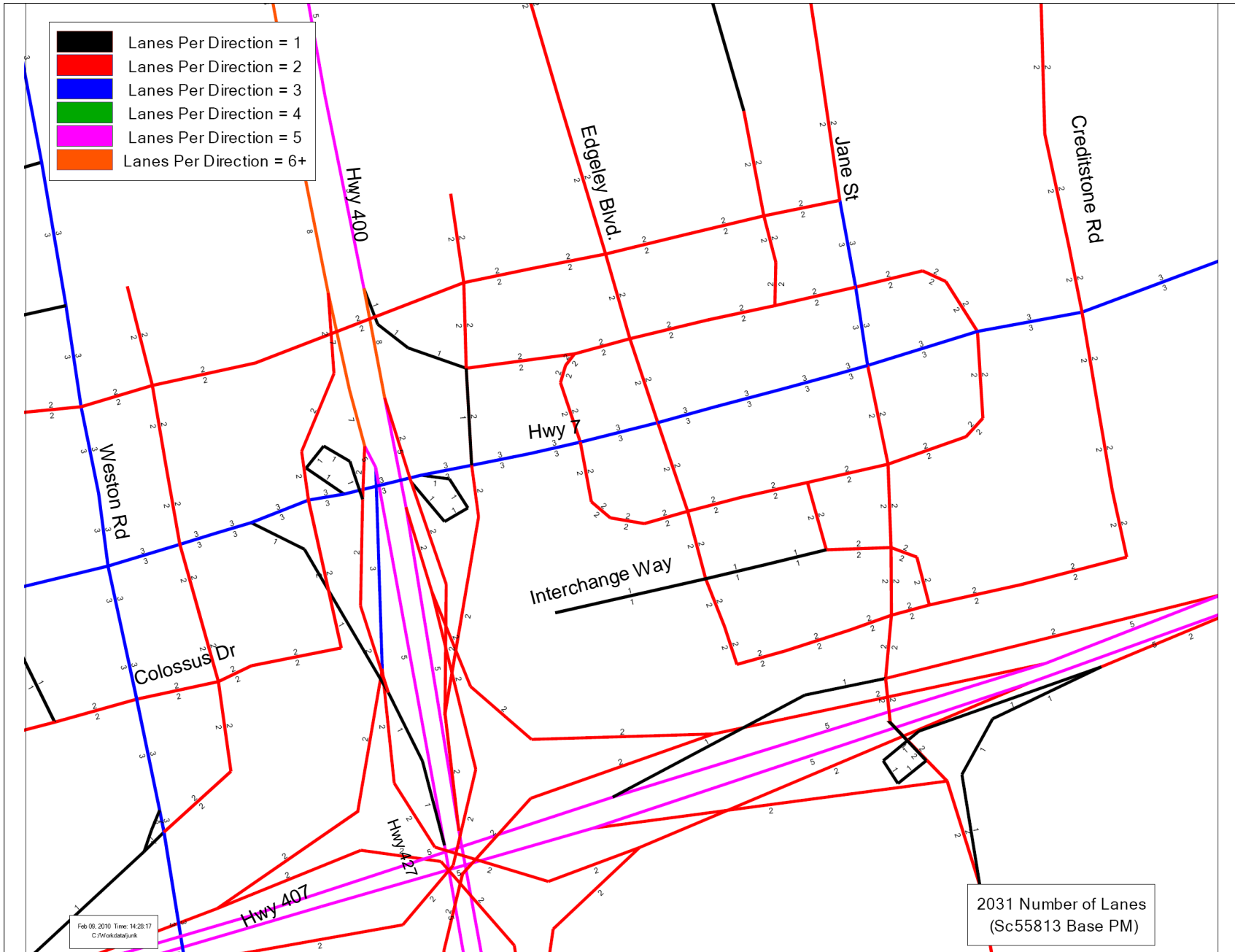
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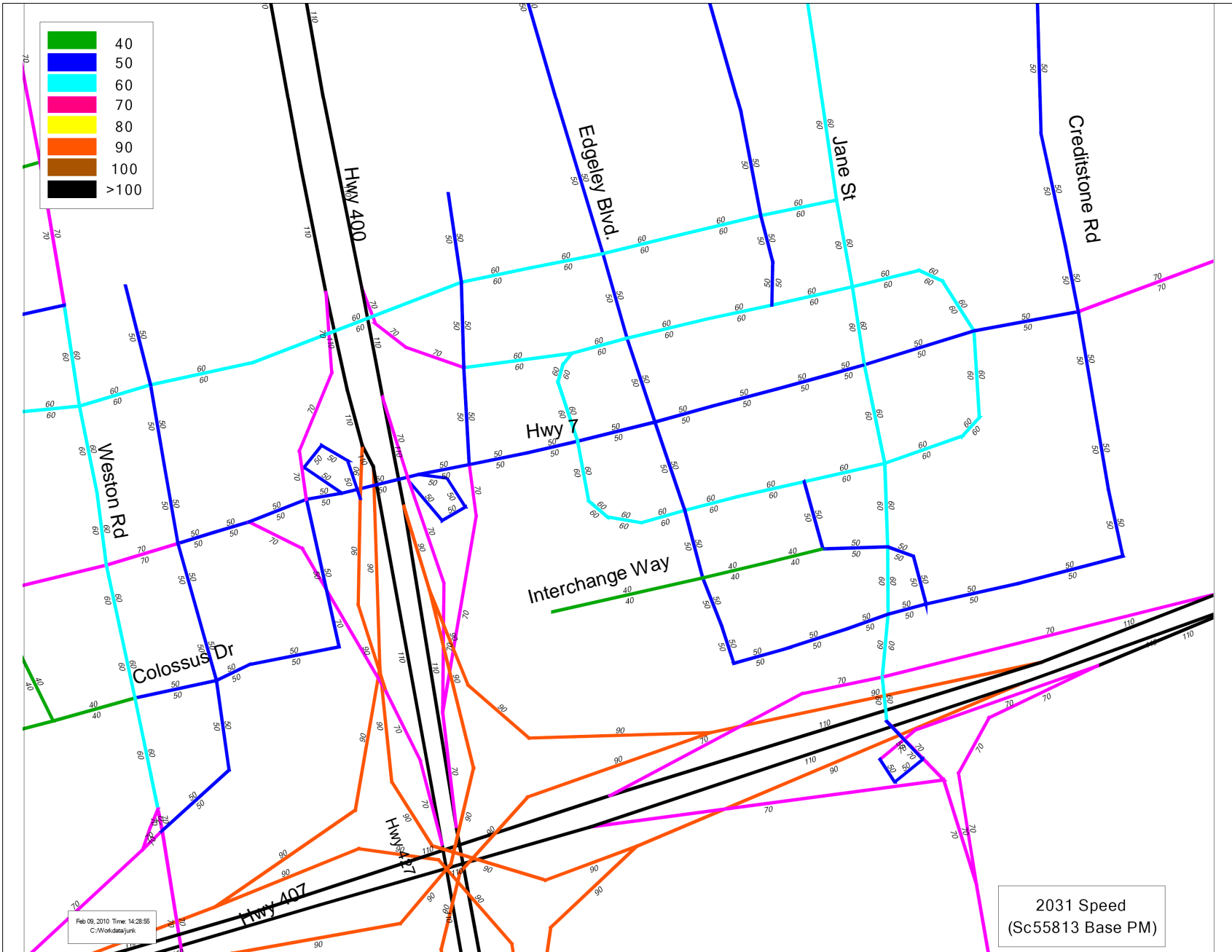
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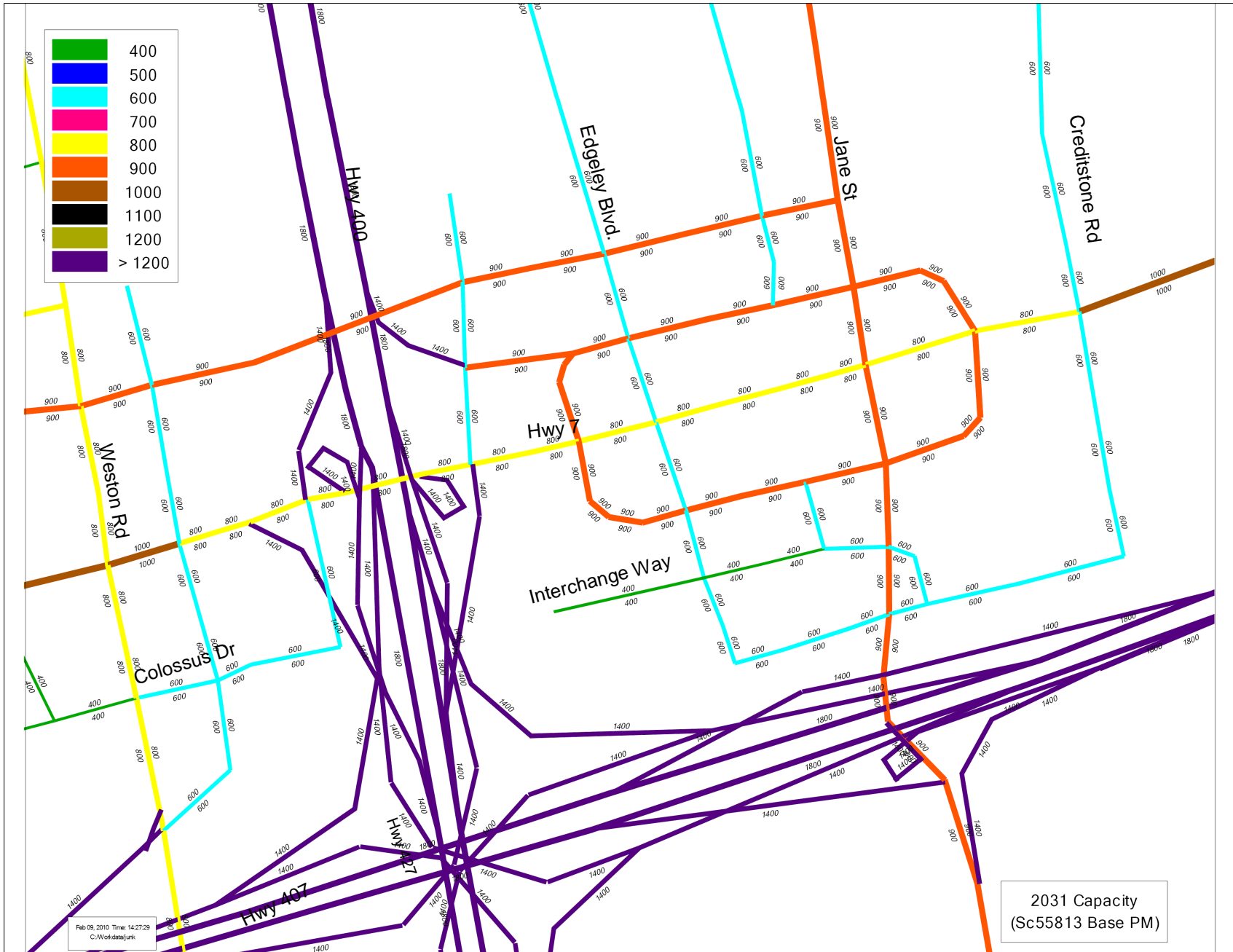
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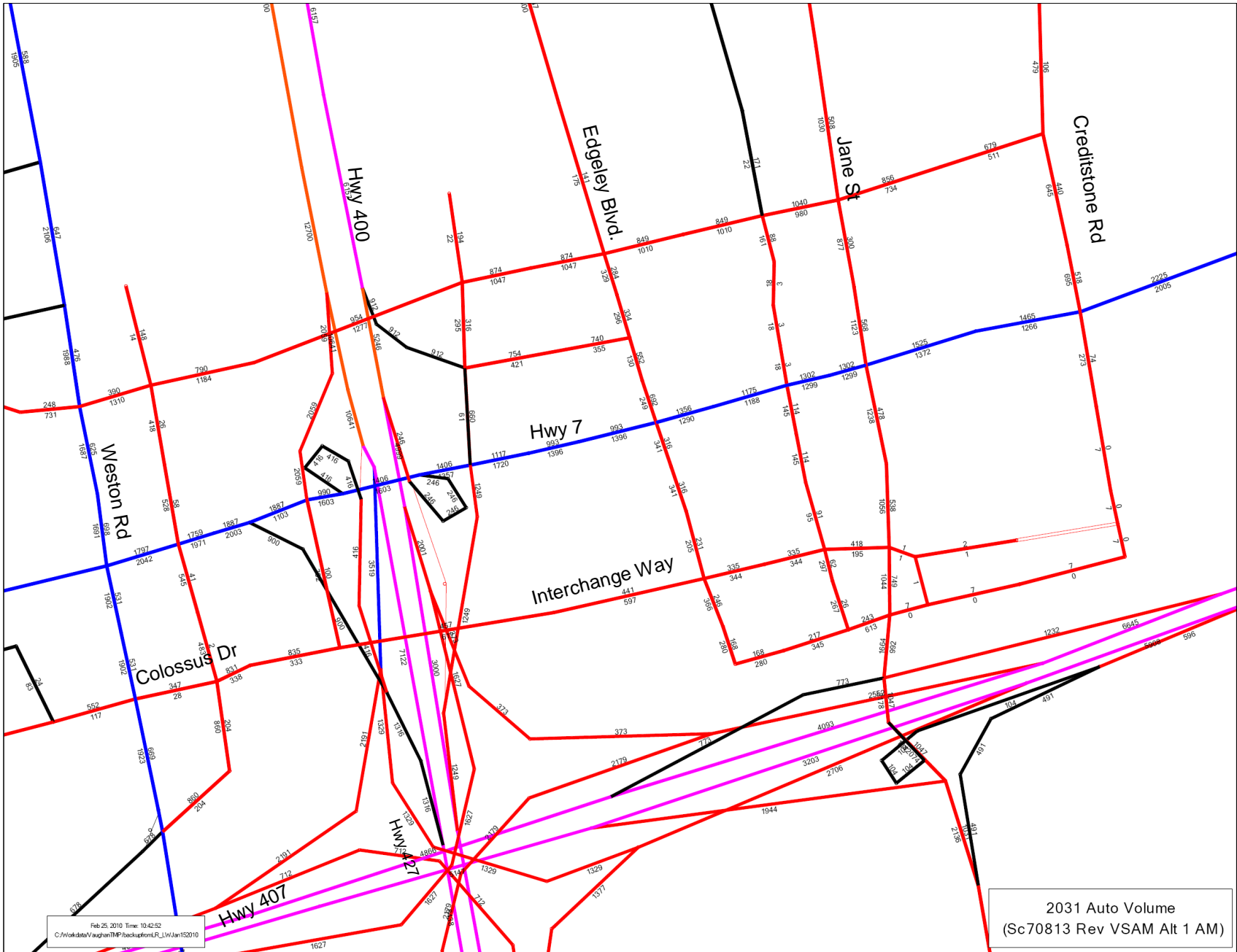


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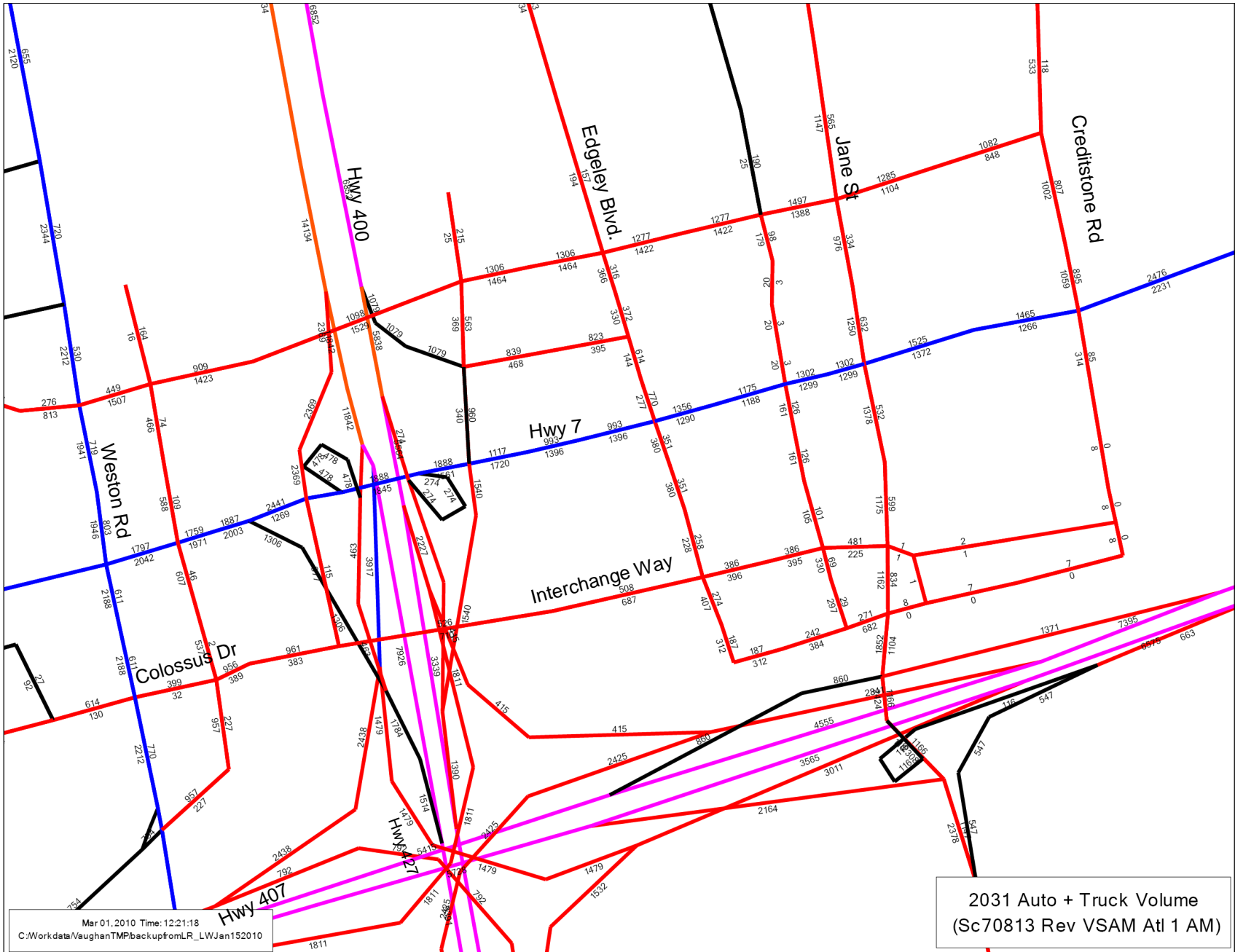


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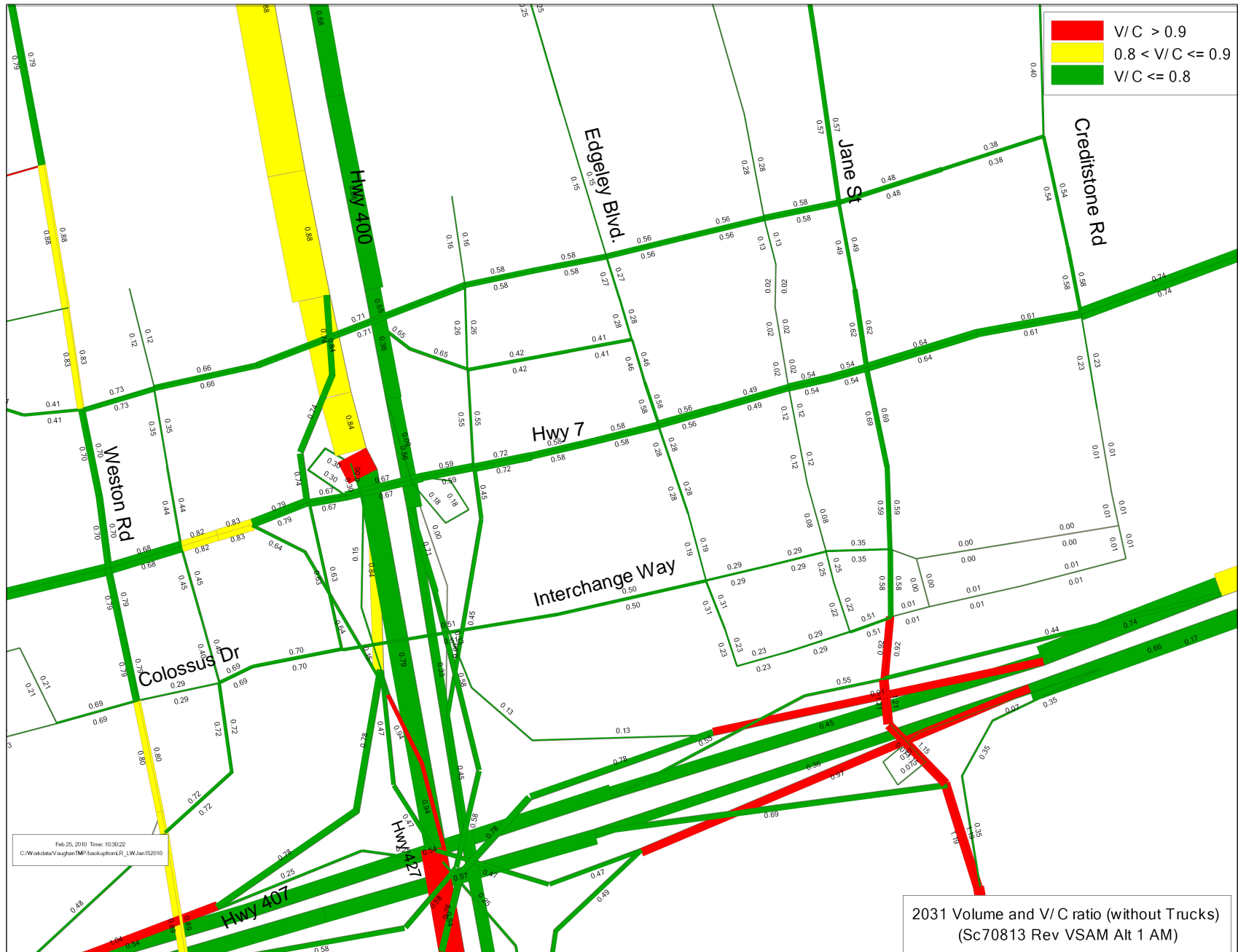
**5. 2031 Road Network Alternative
EMME Results Package,
AM and PM Peak Hour**



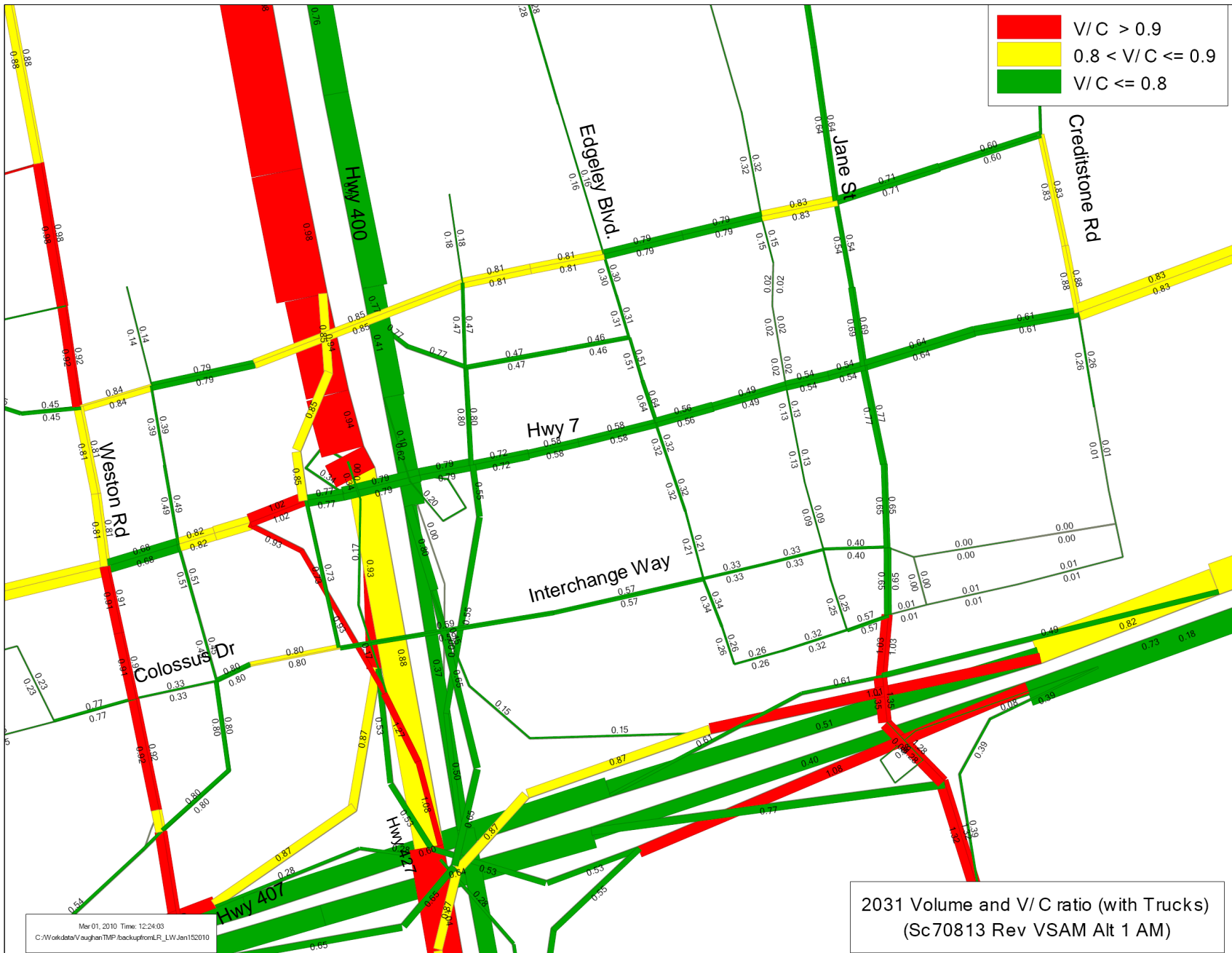
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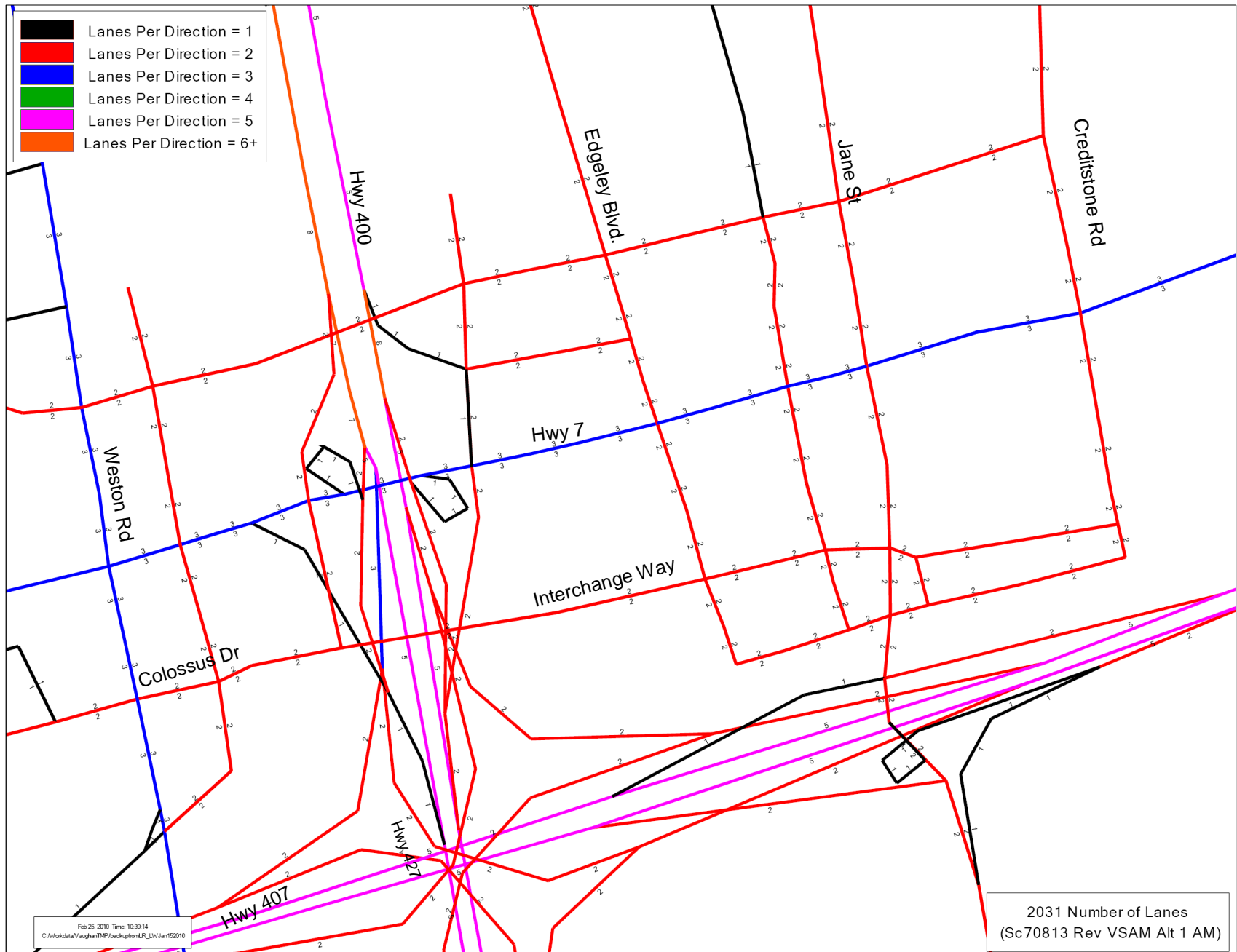
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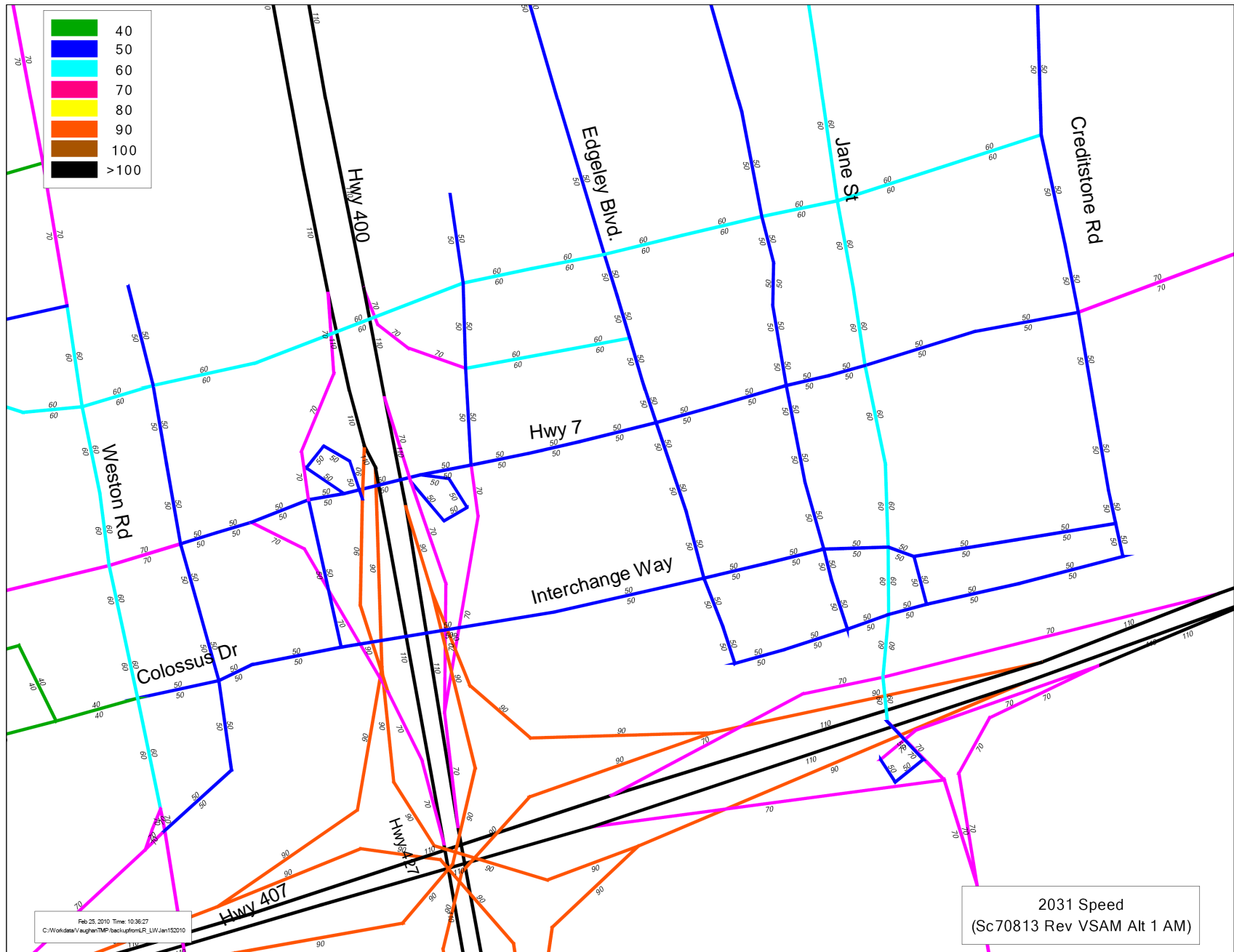
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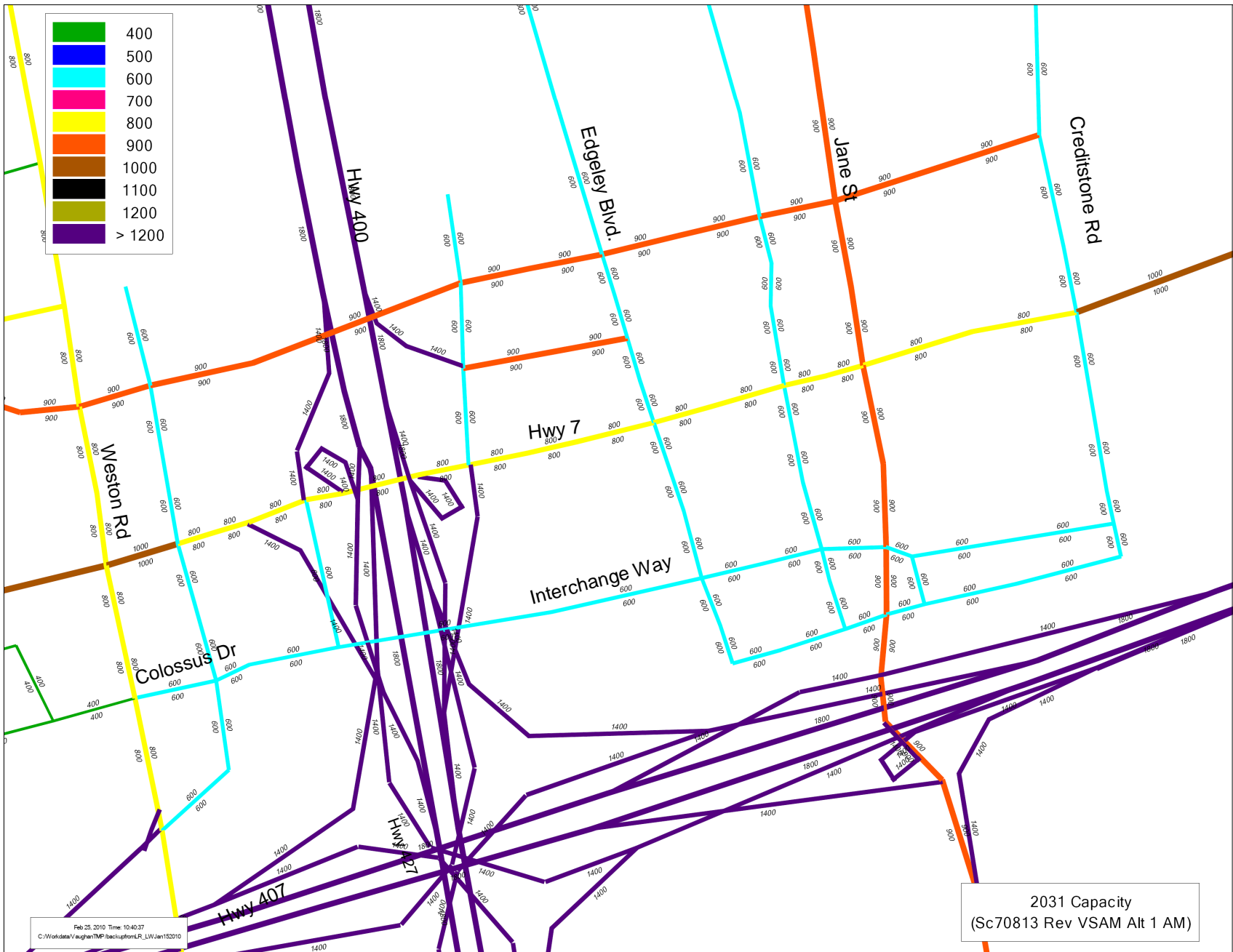
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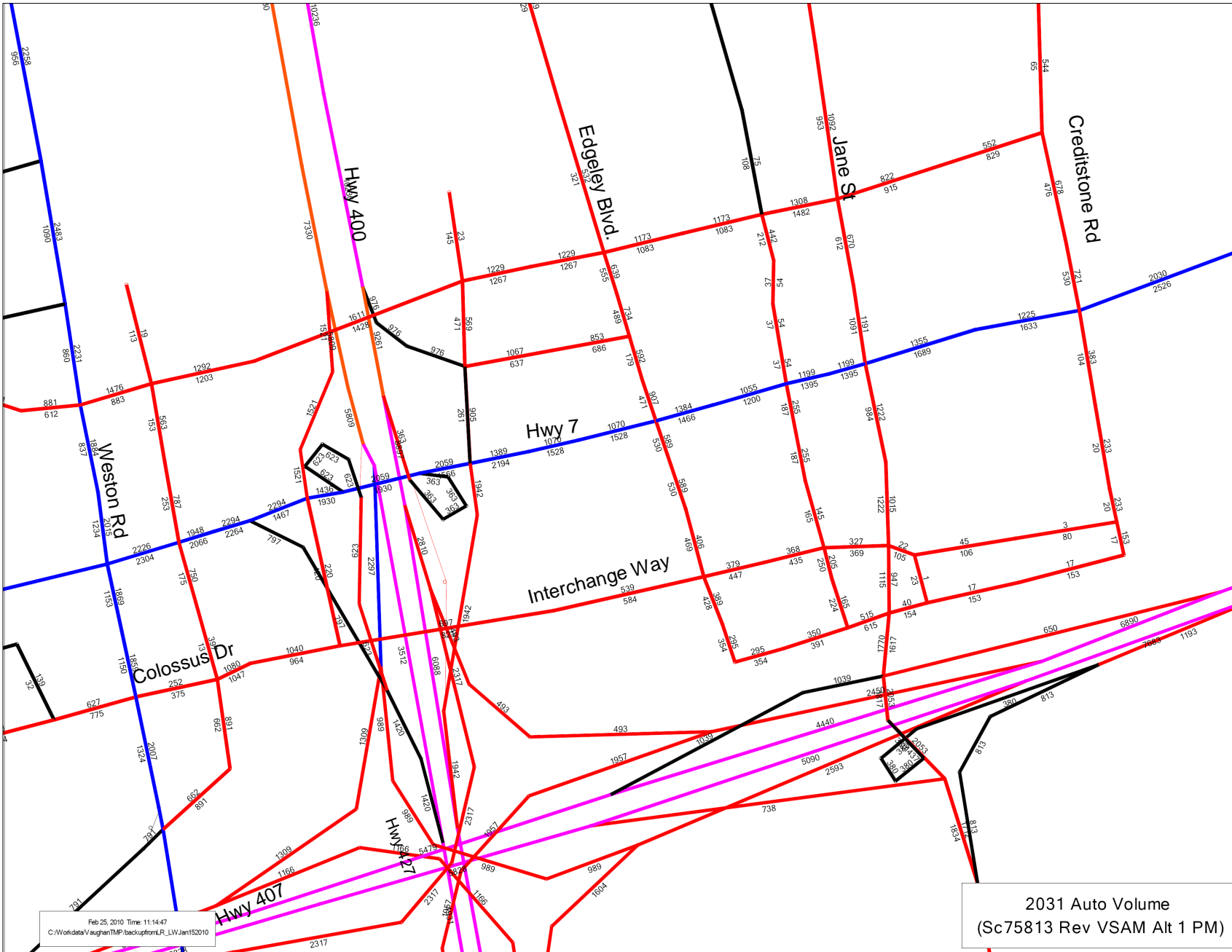
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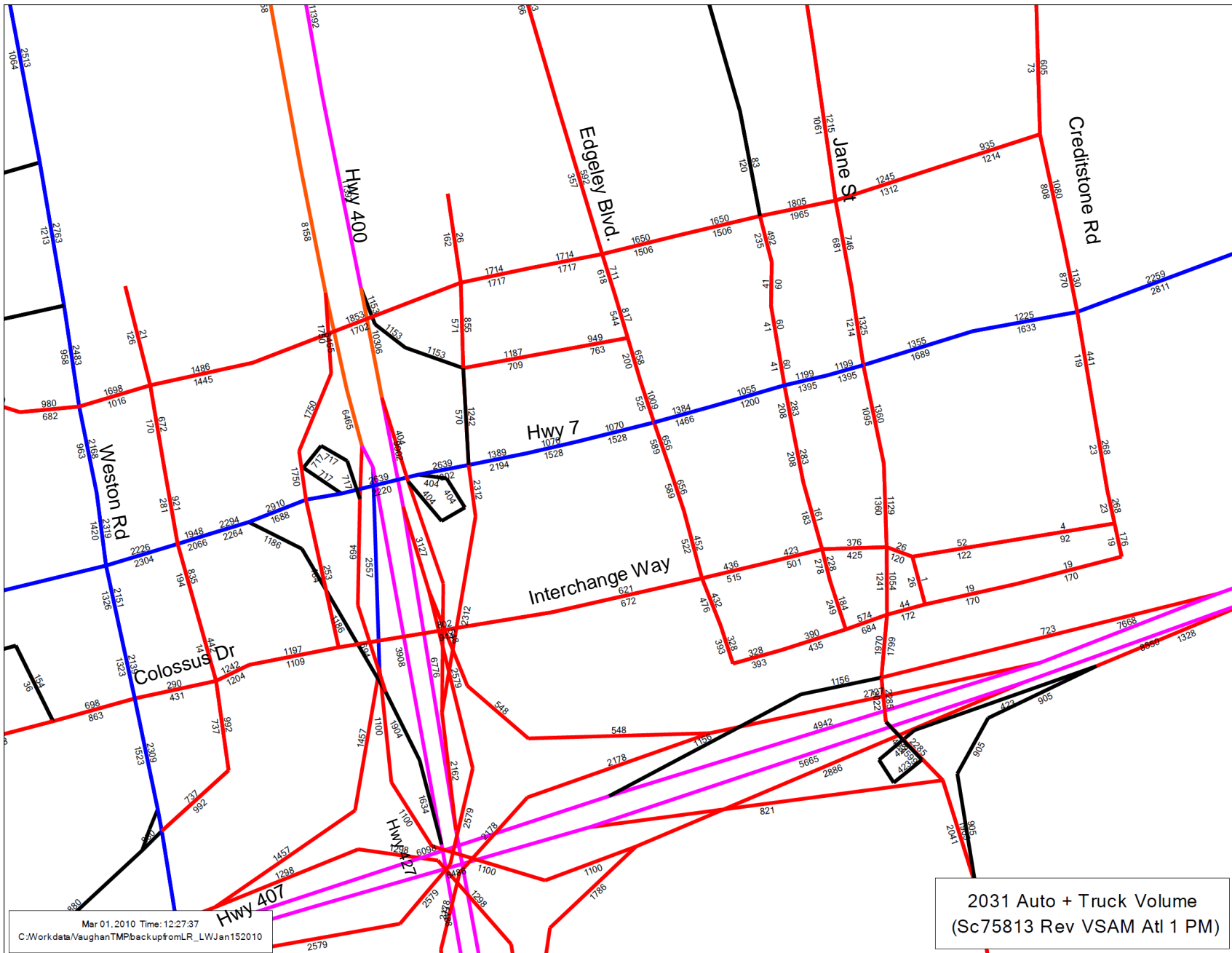
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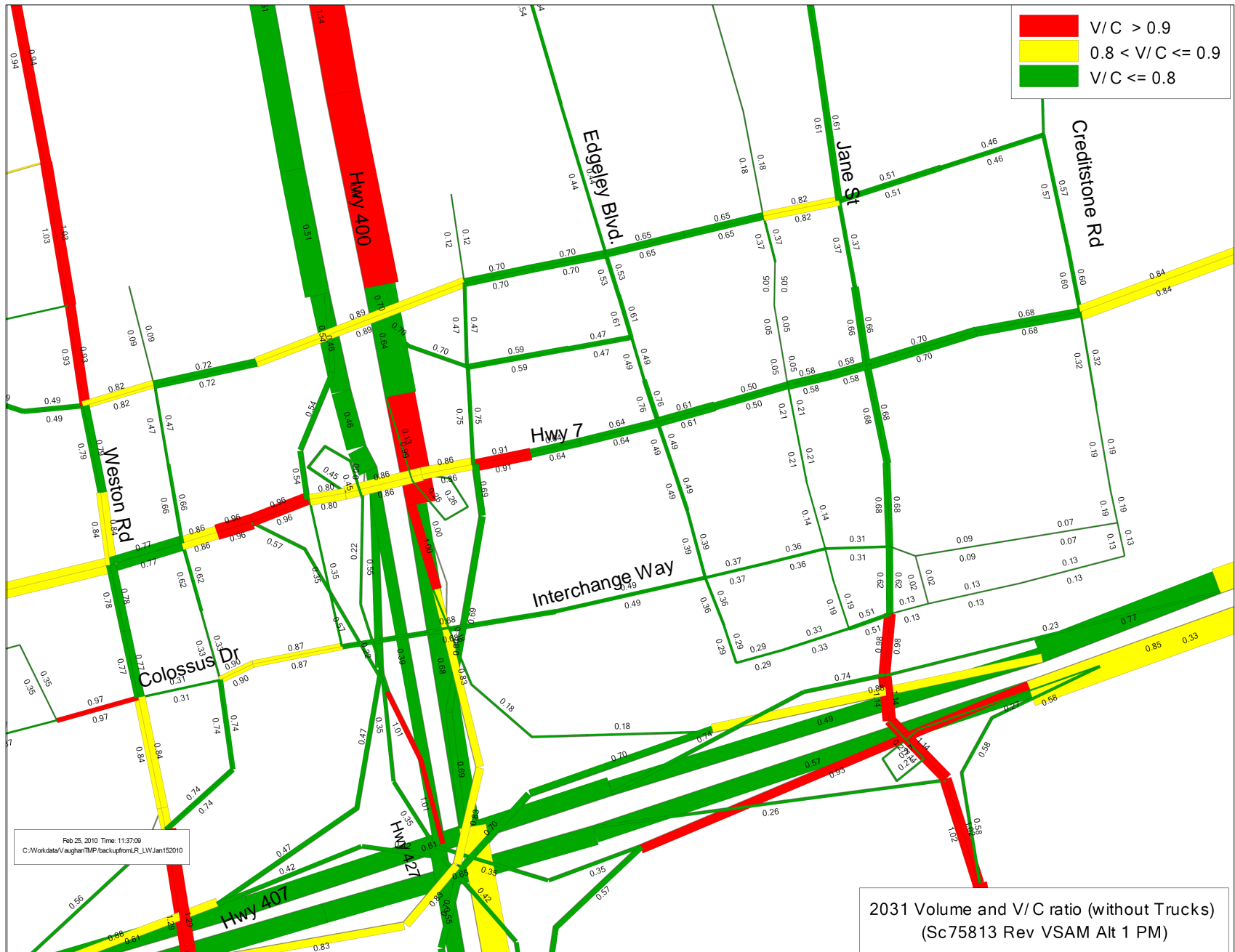
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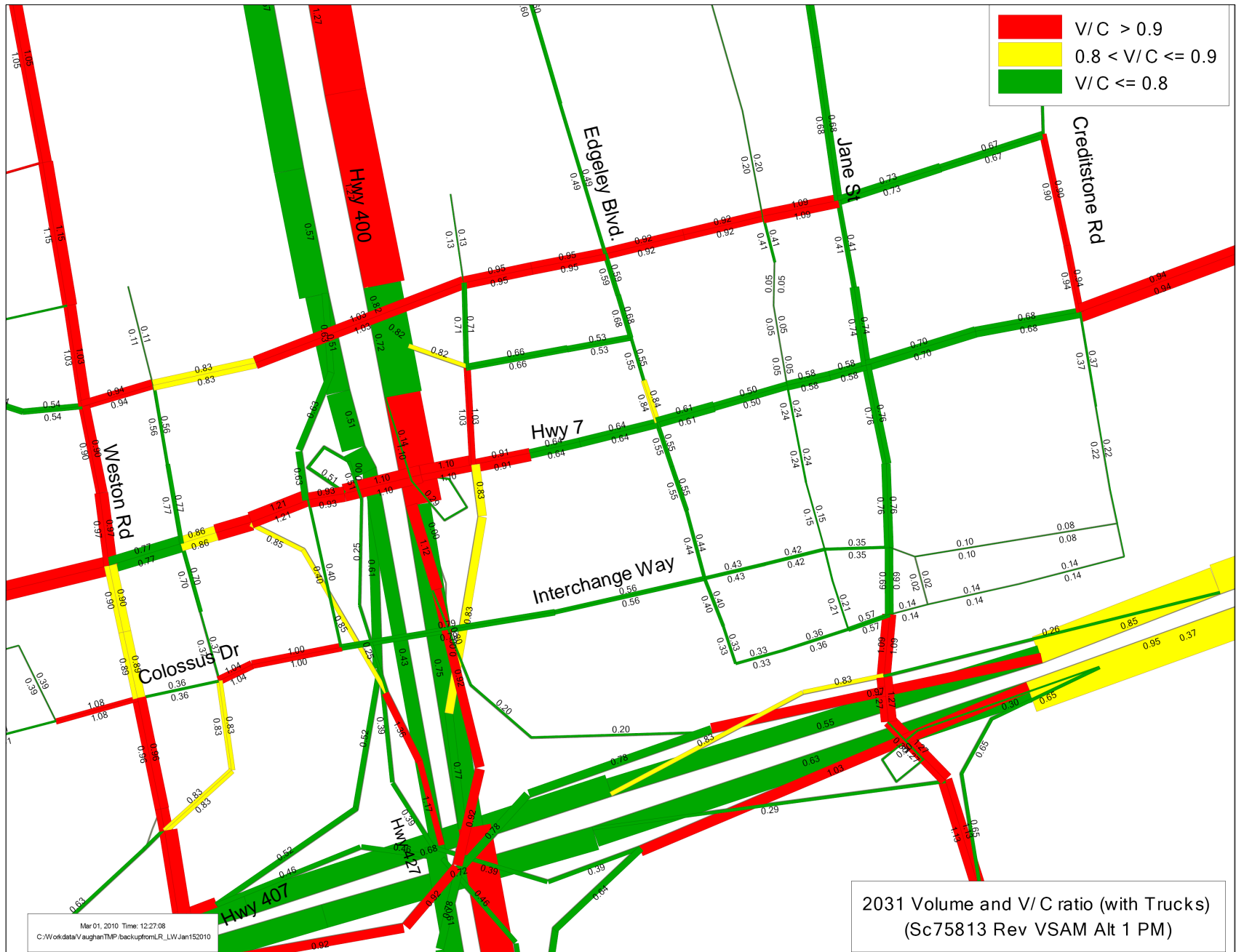
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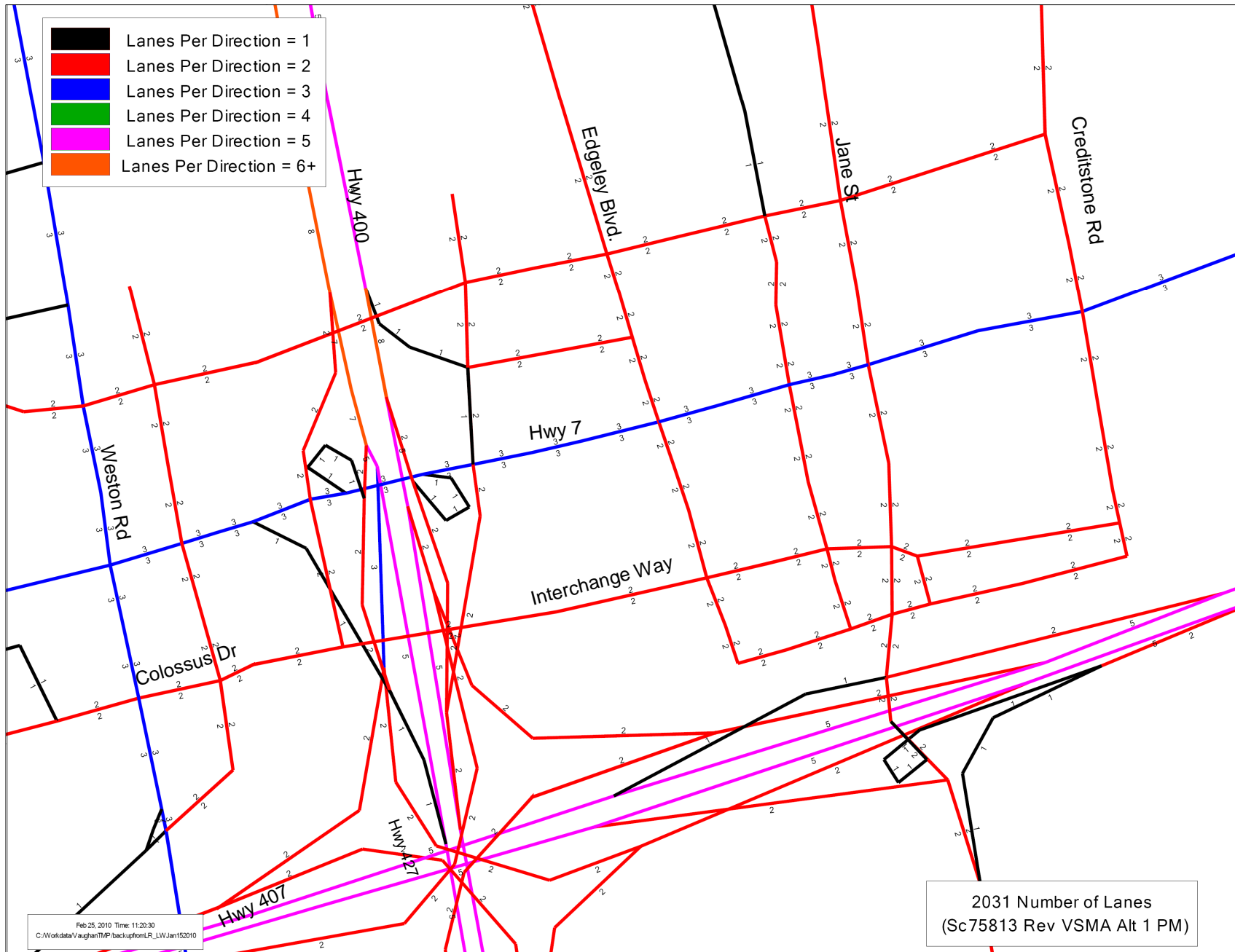
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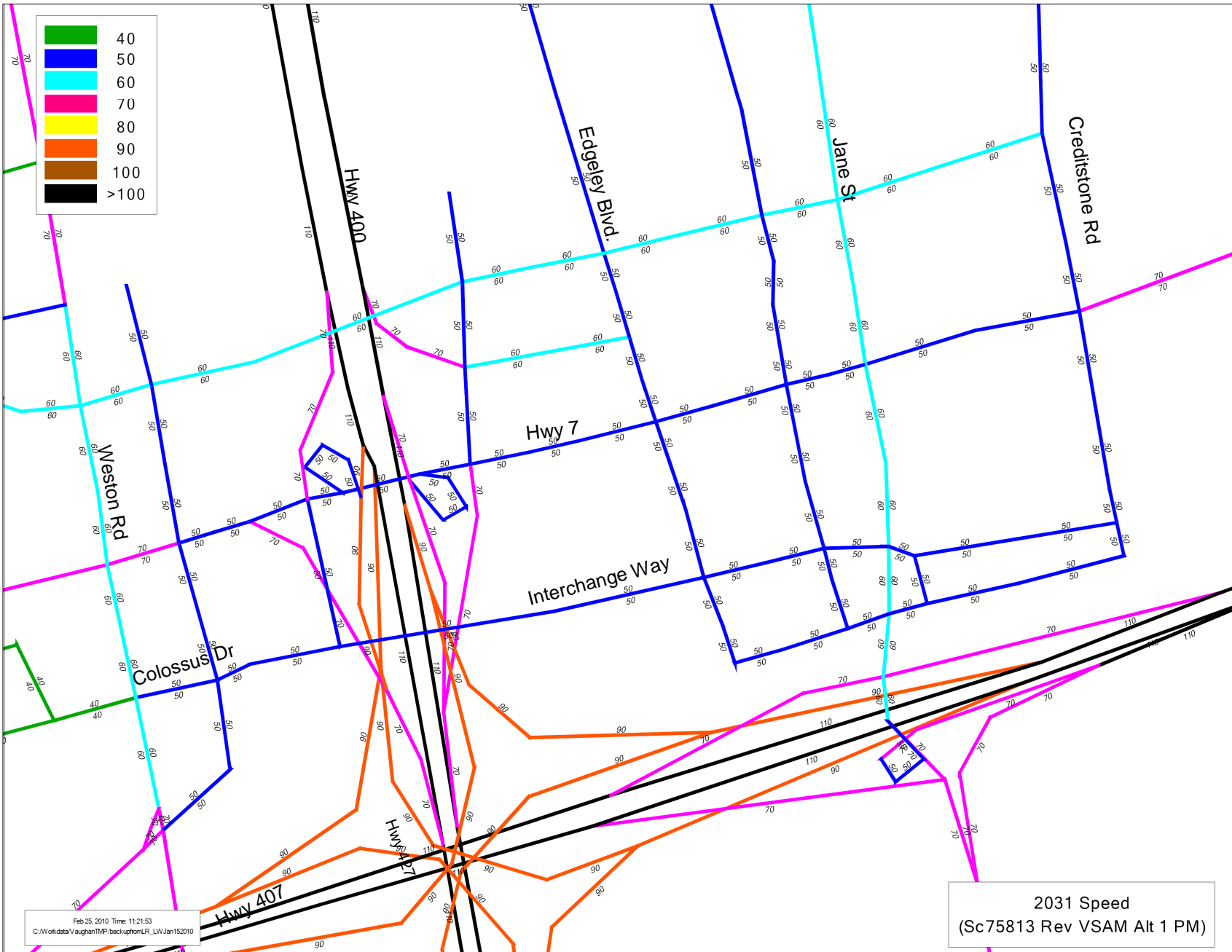
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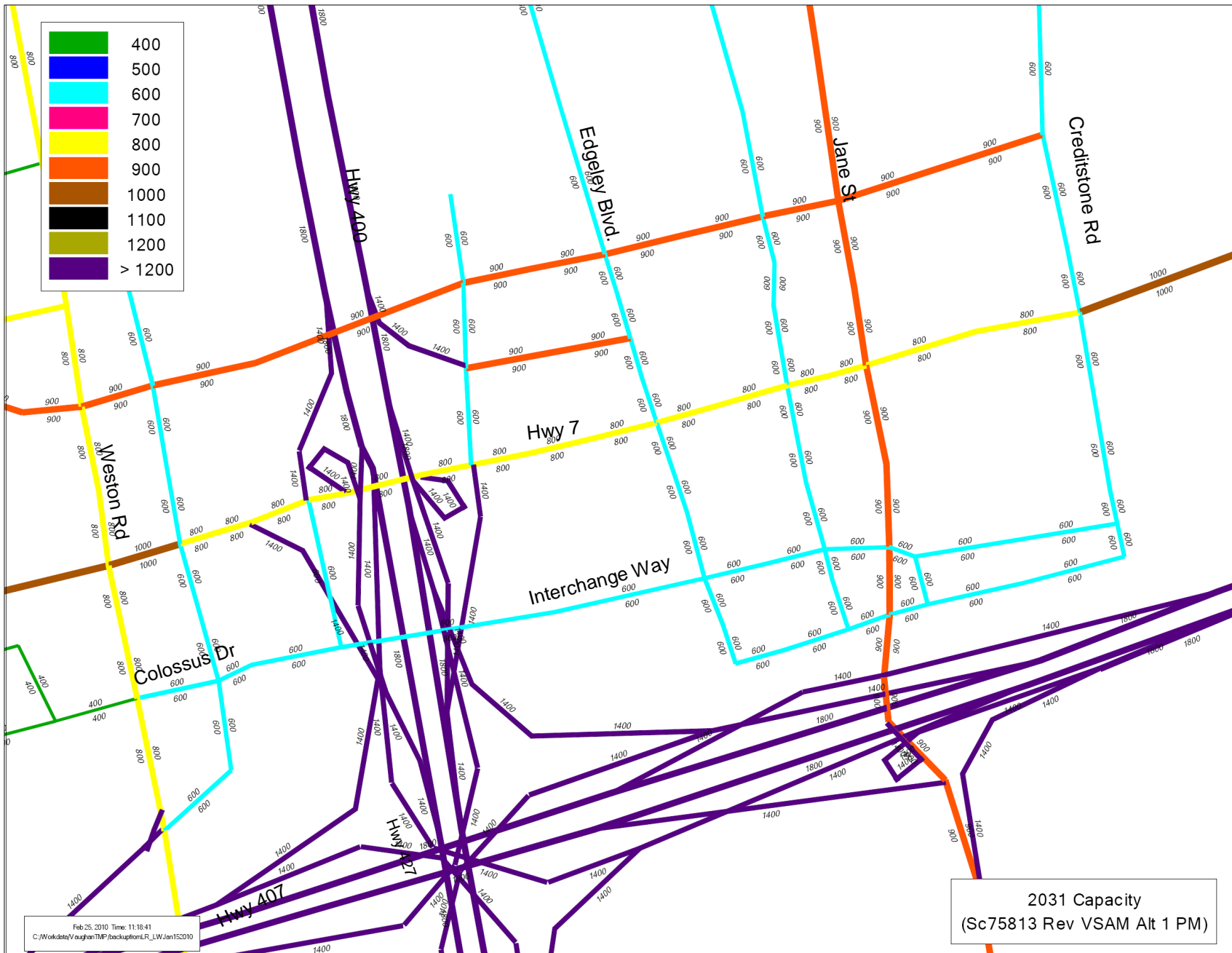
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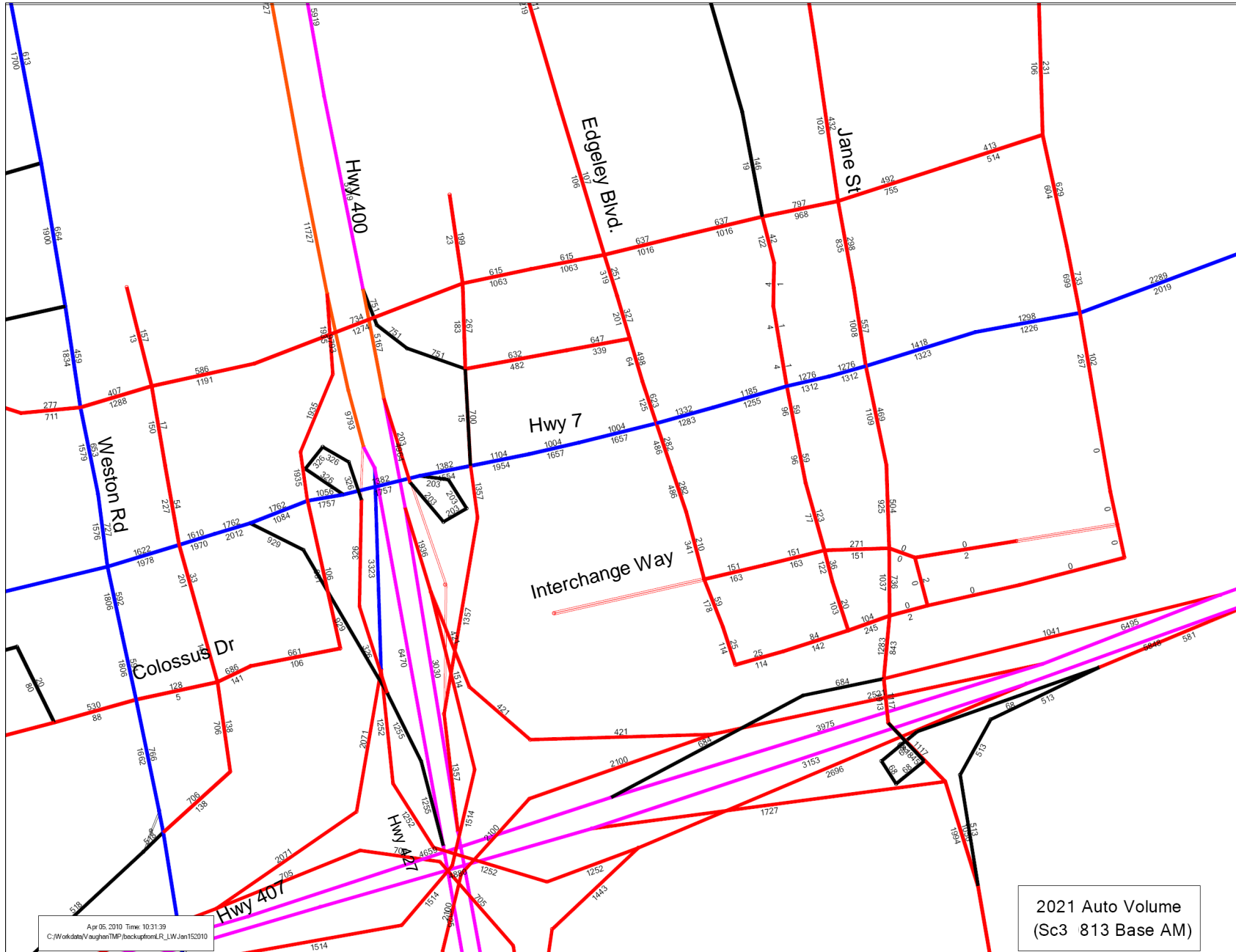


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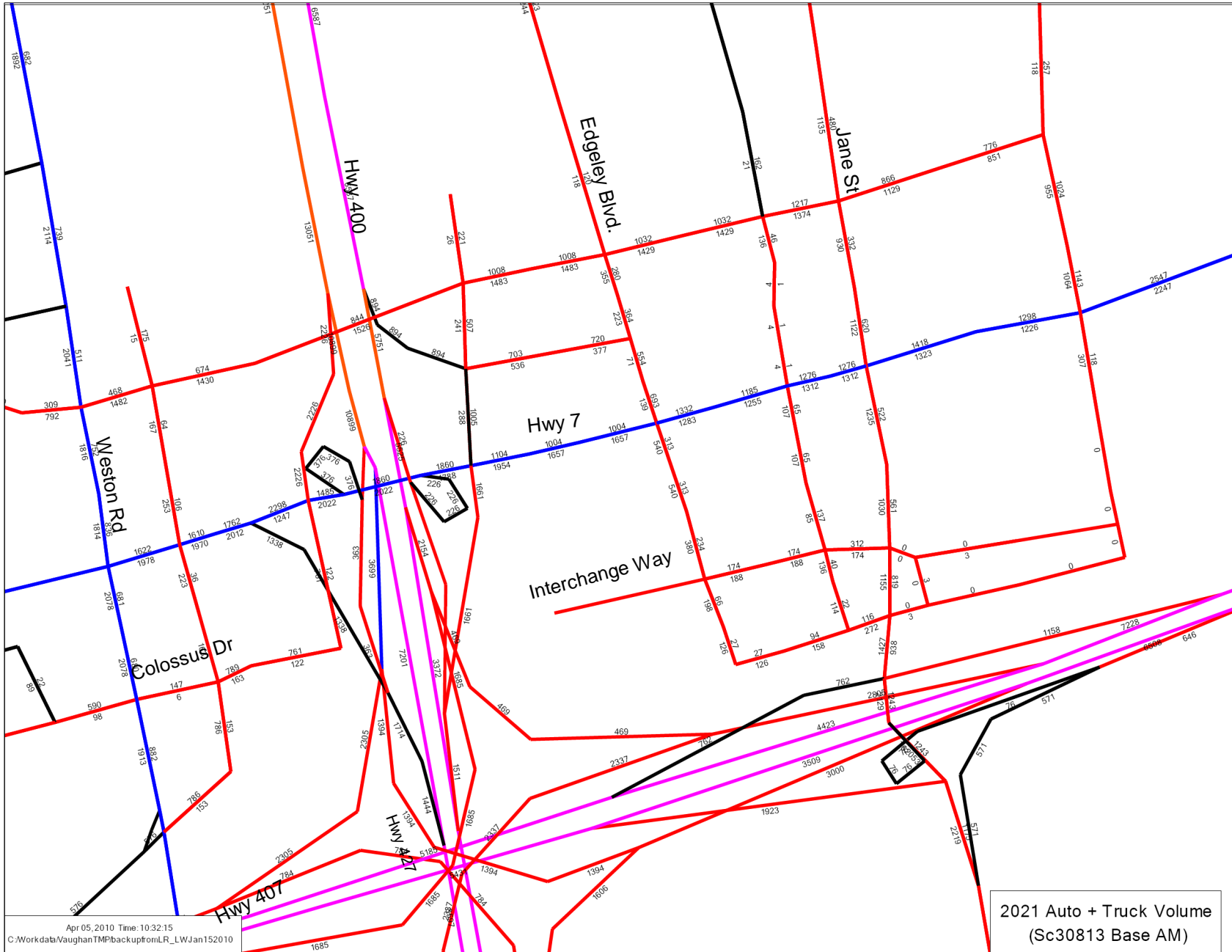


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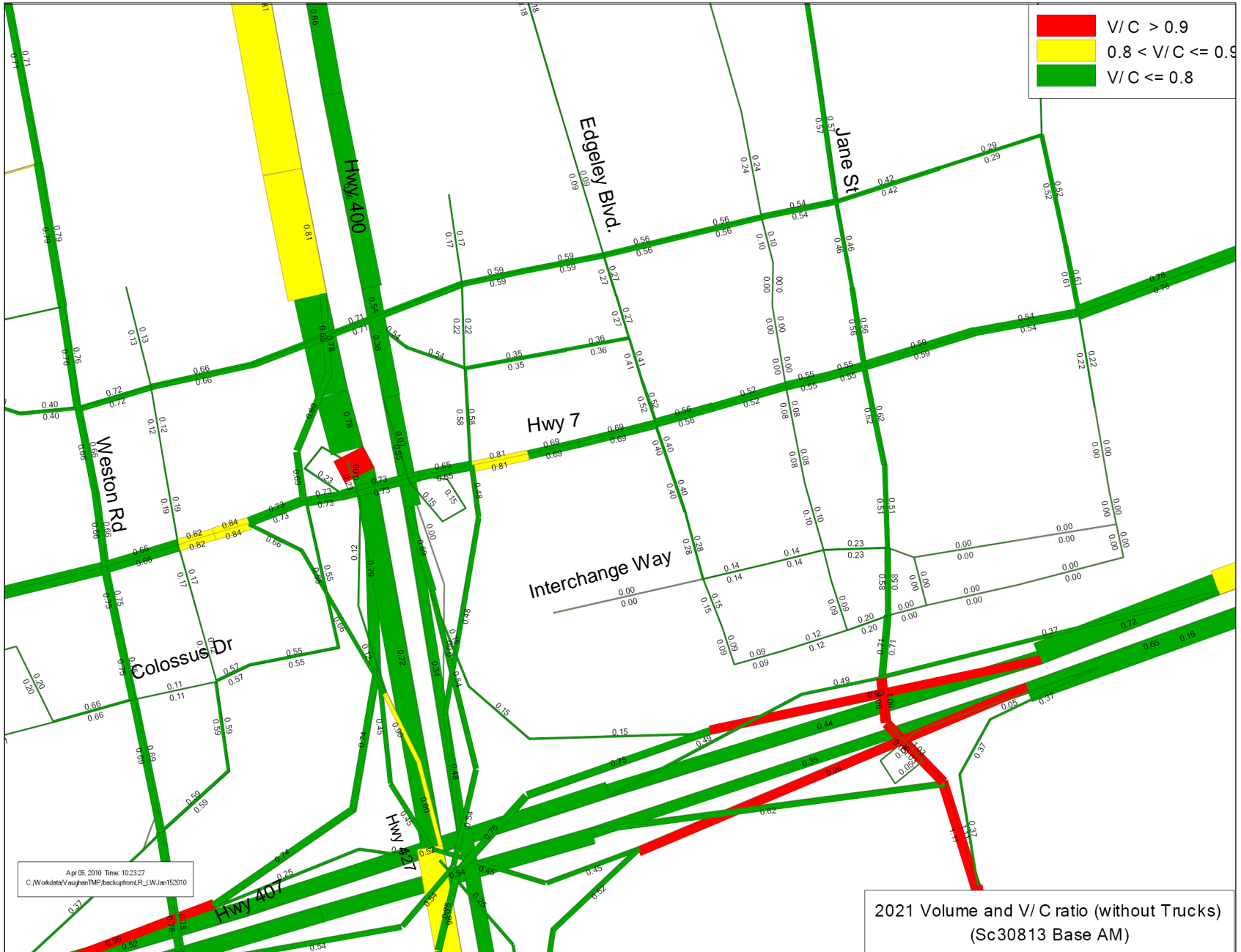
**6. 2021 Base Road Network
EMME Results Package,
AM and PM Peak Hour**



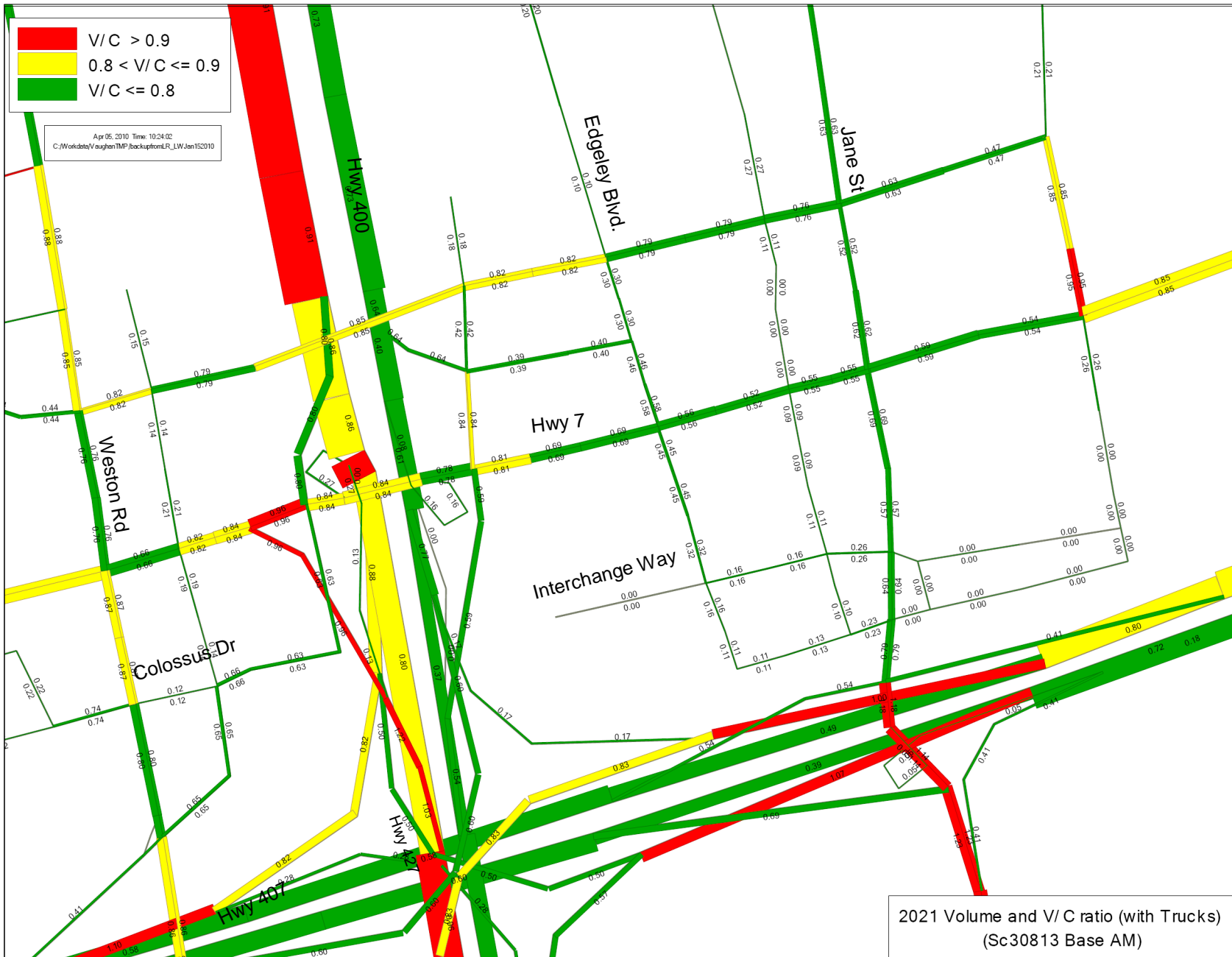
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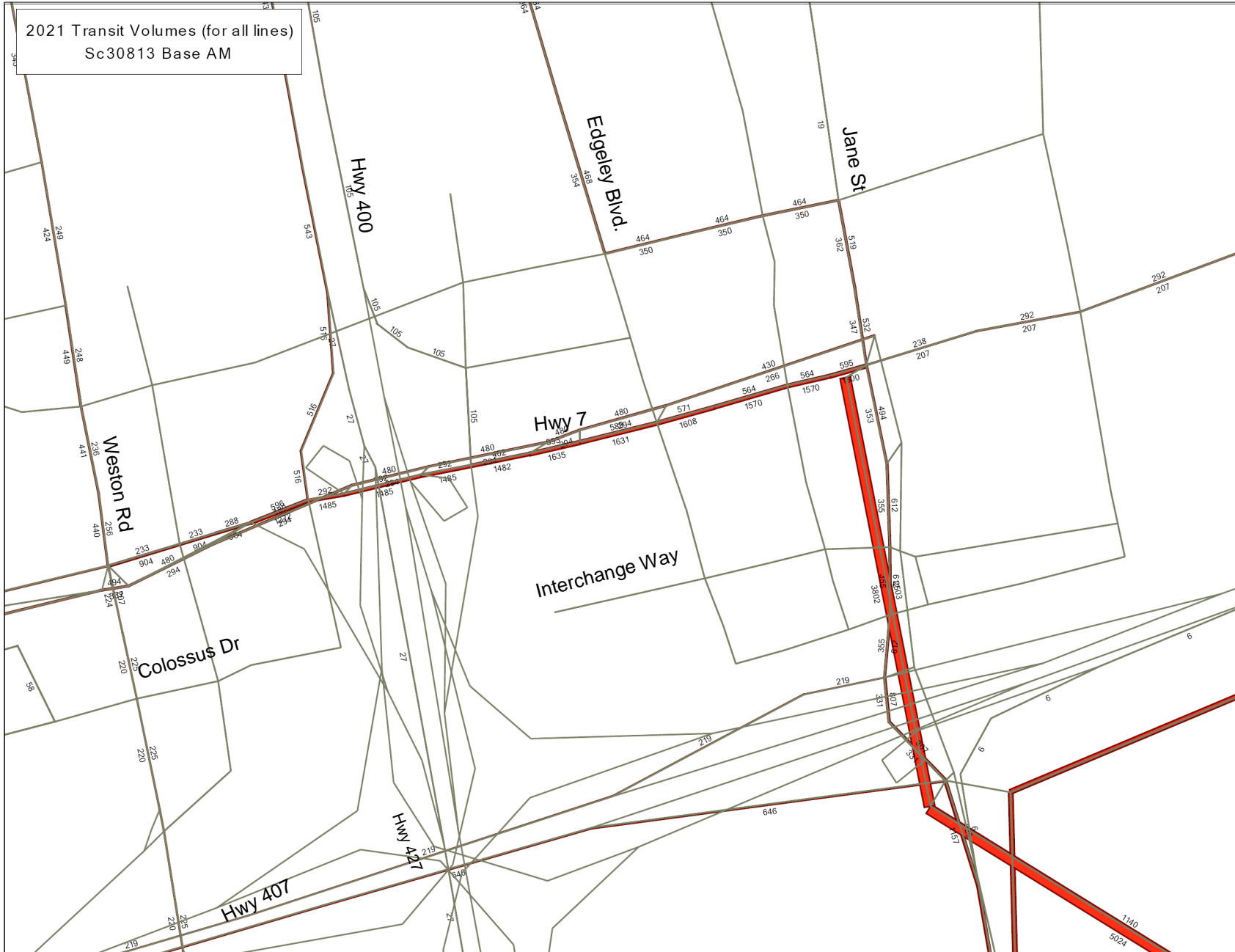
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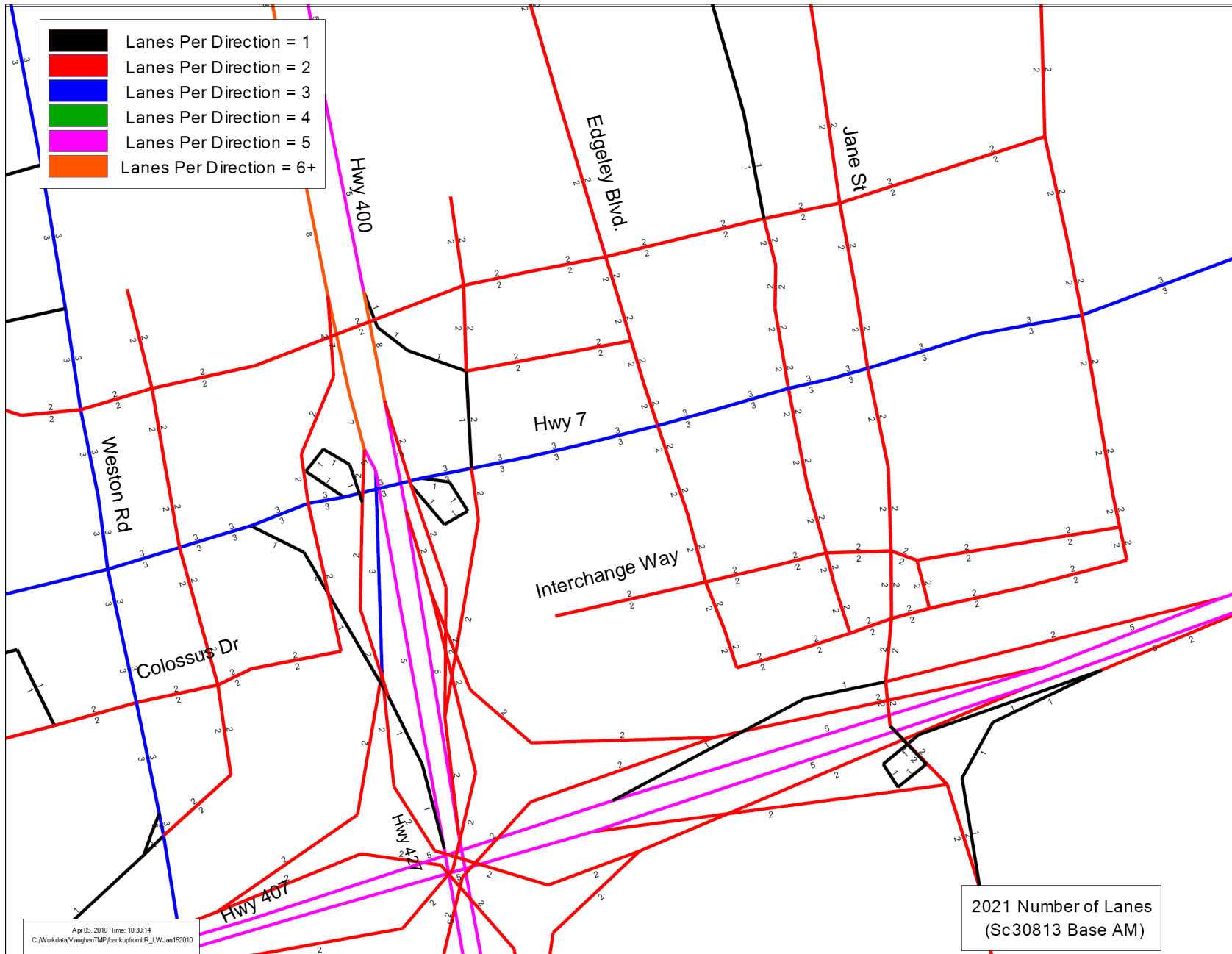
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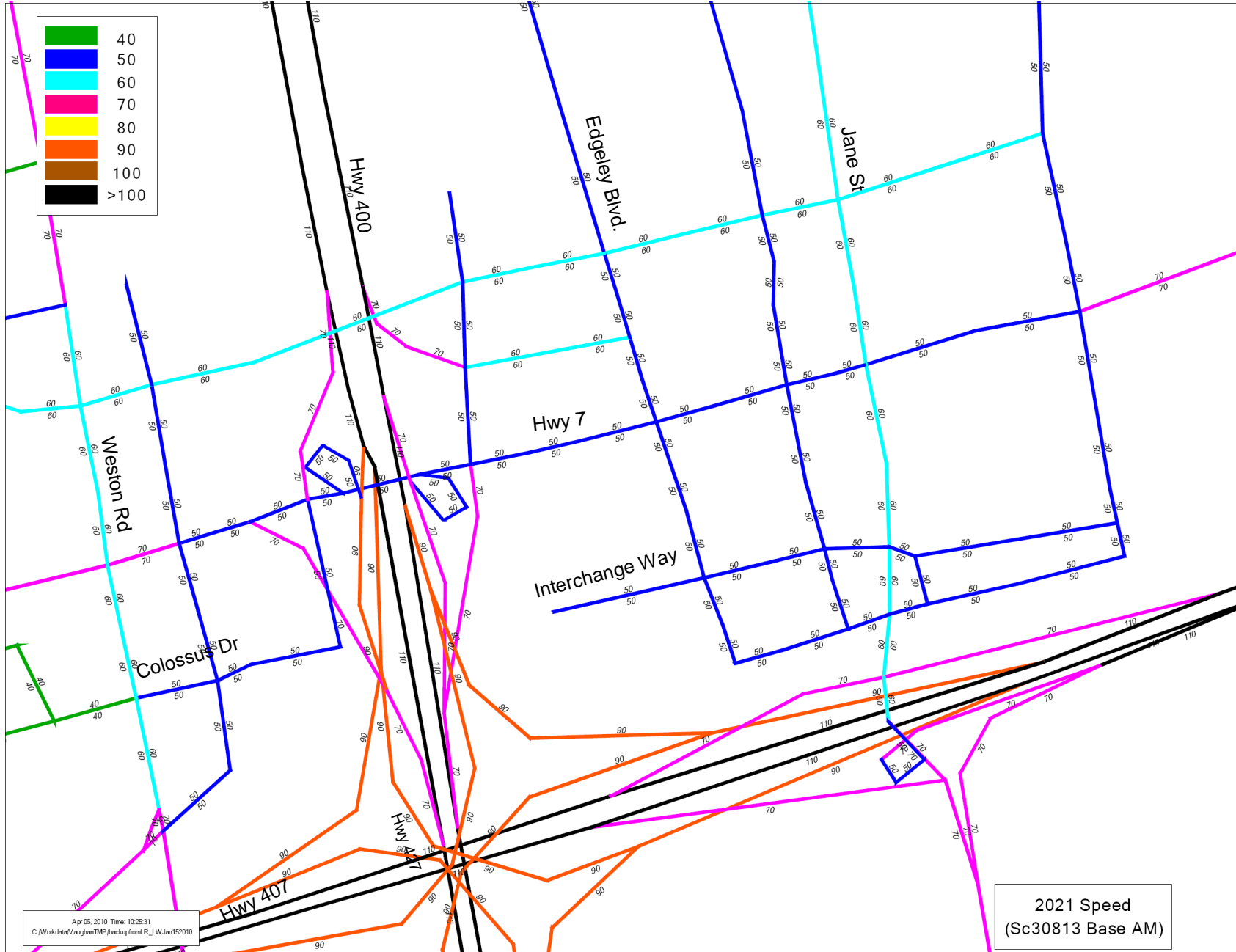
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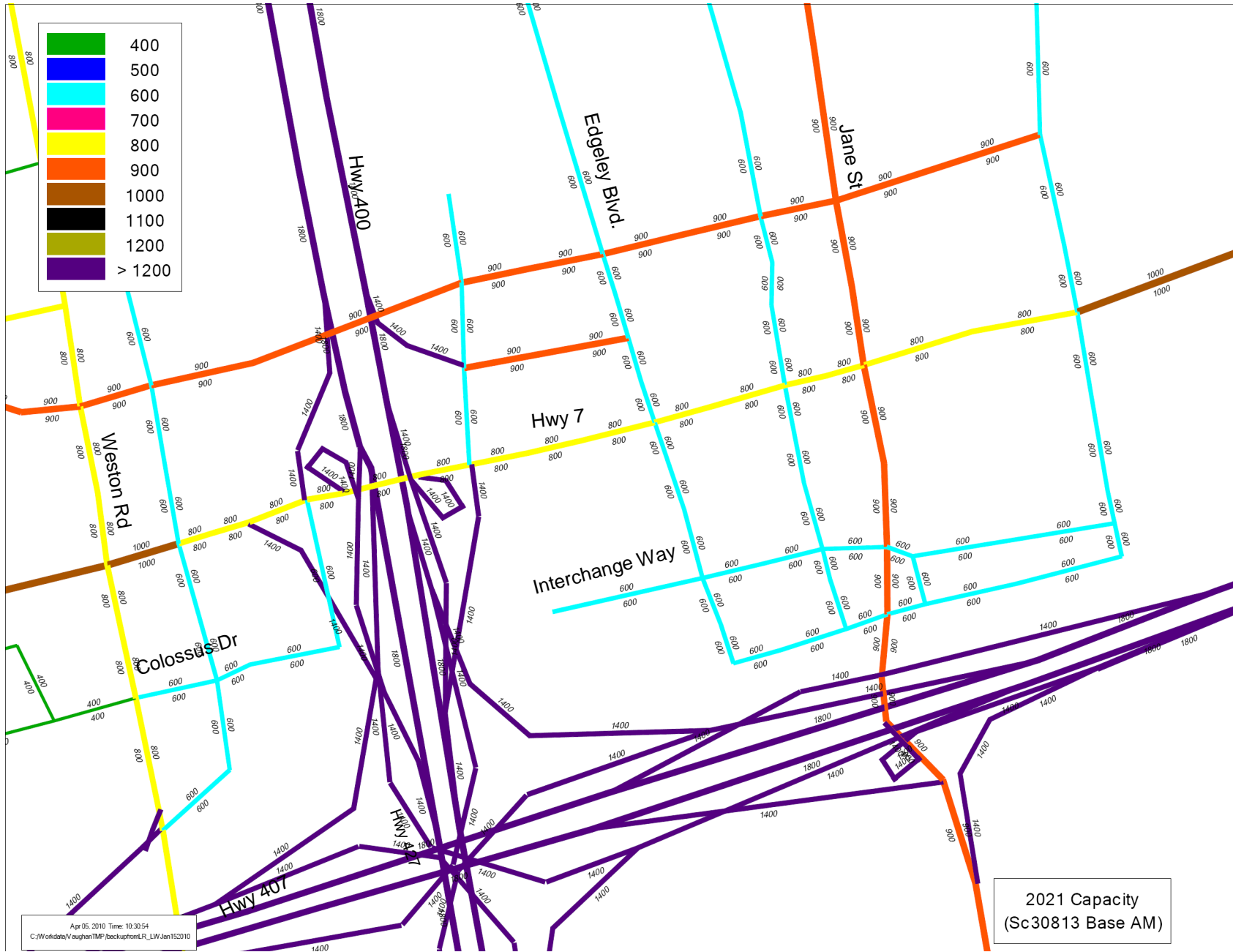
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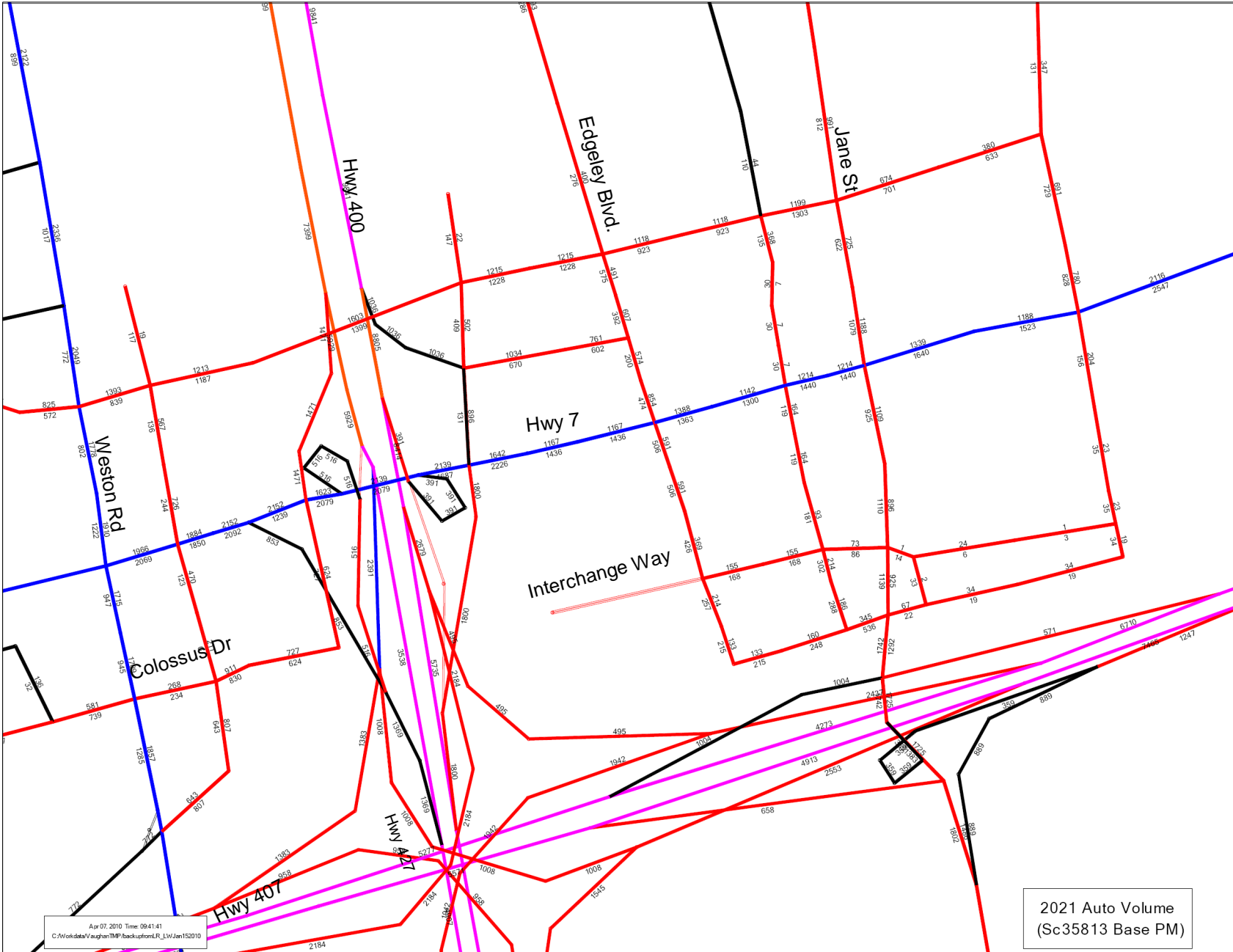
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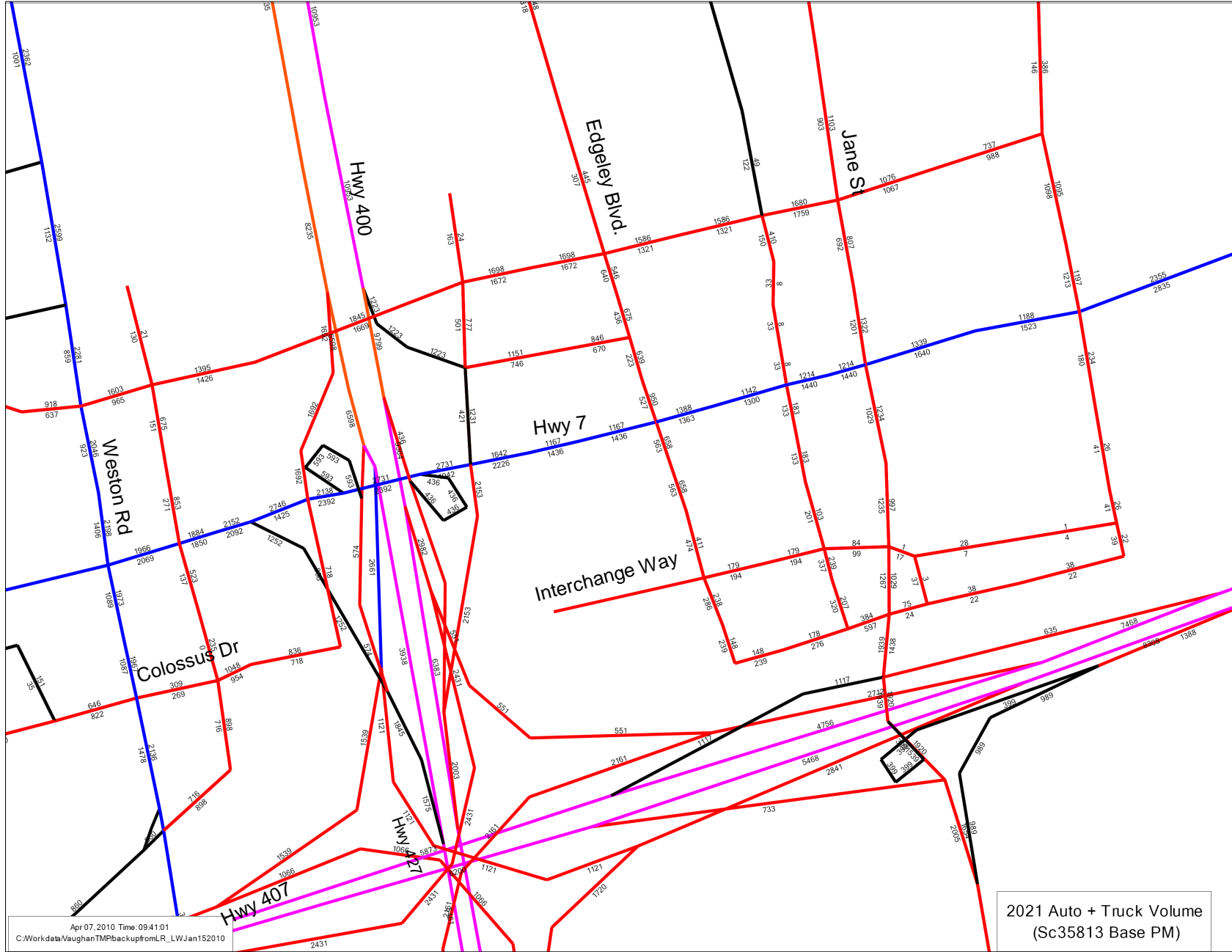
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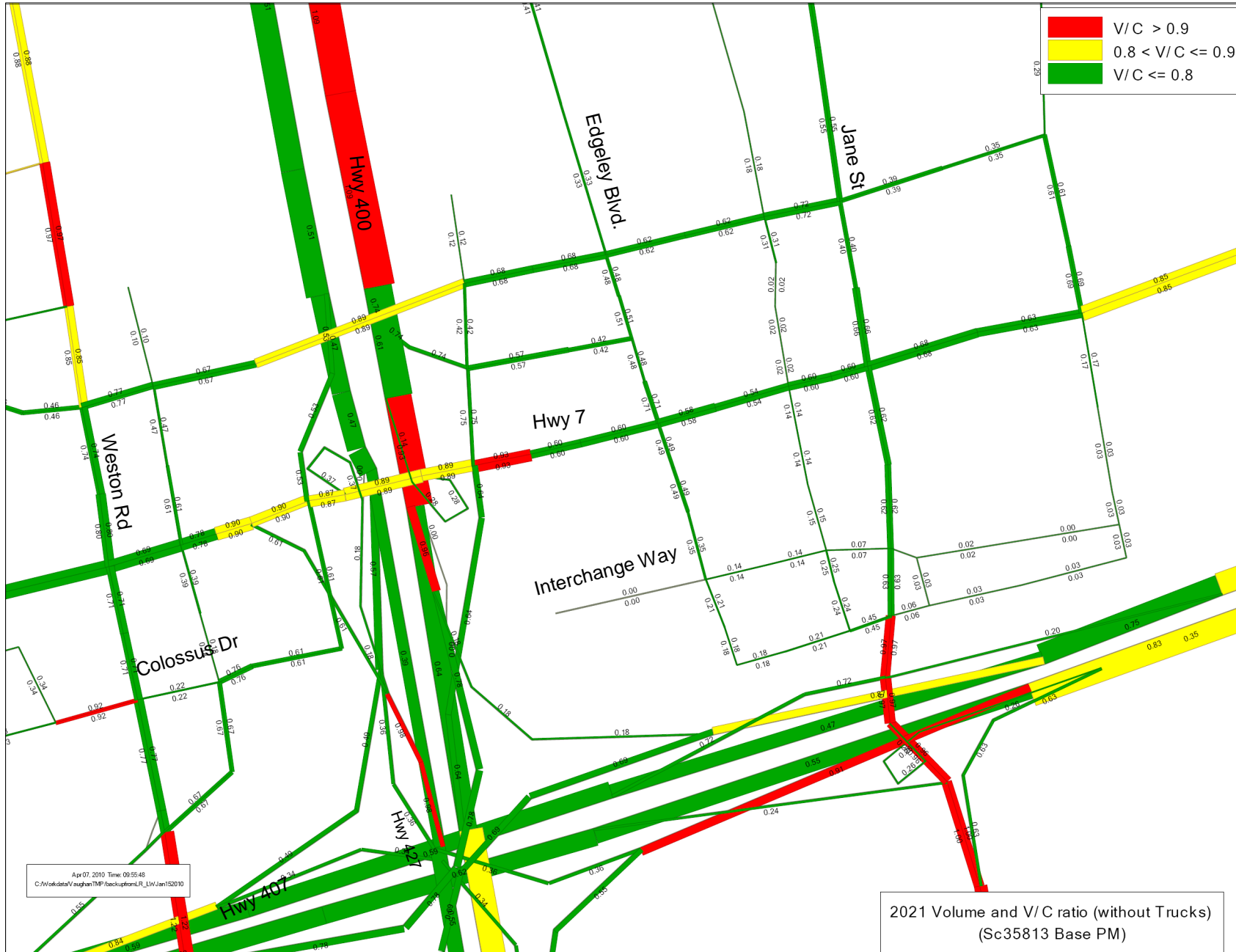


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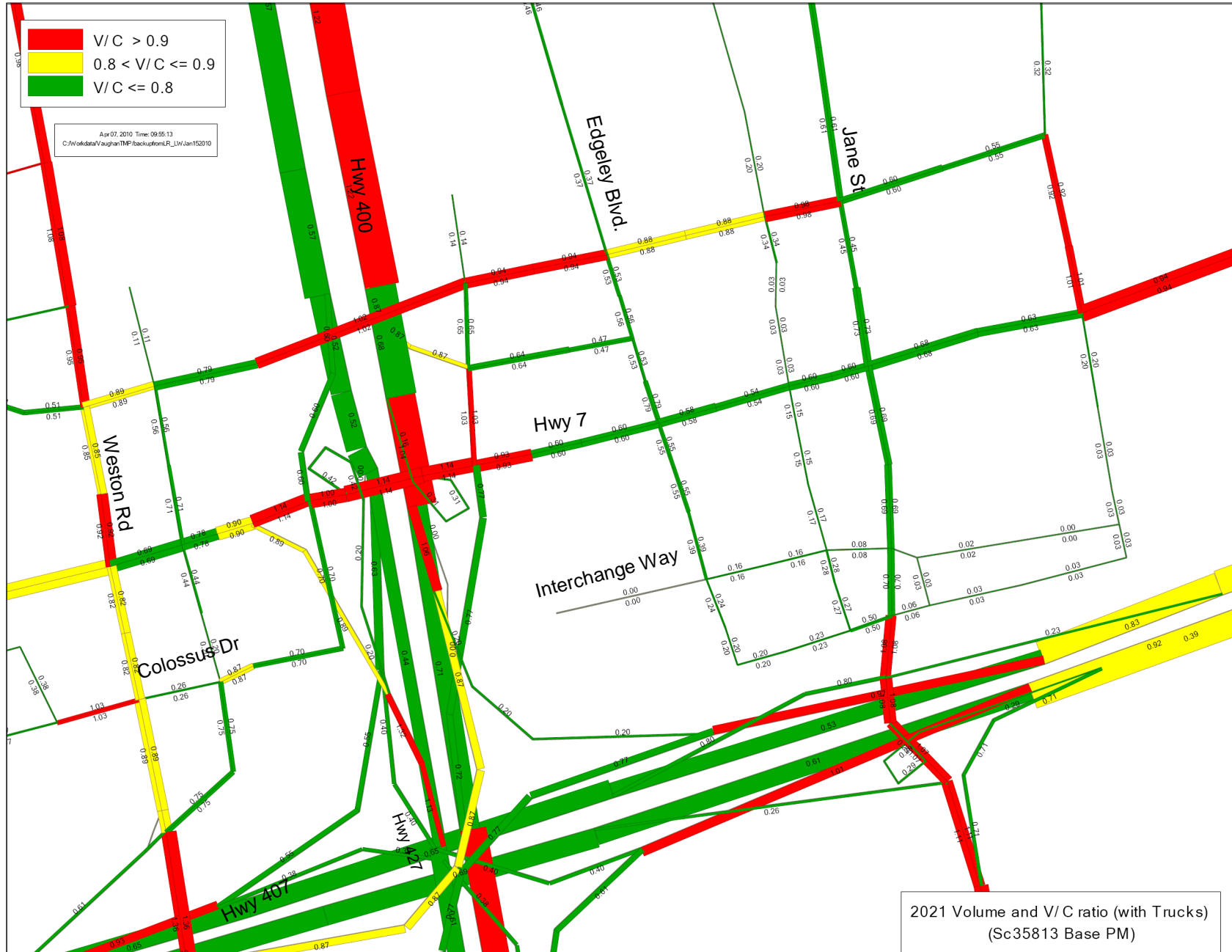


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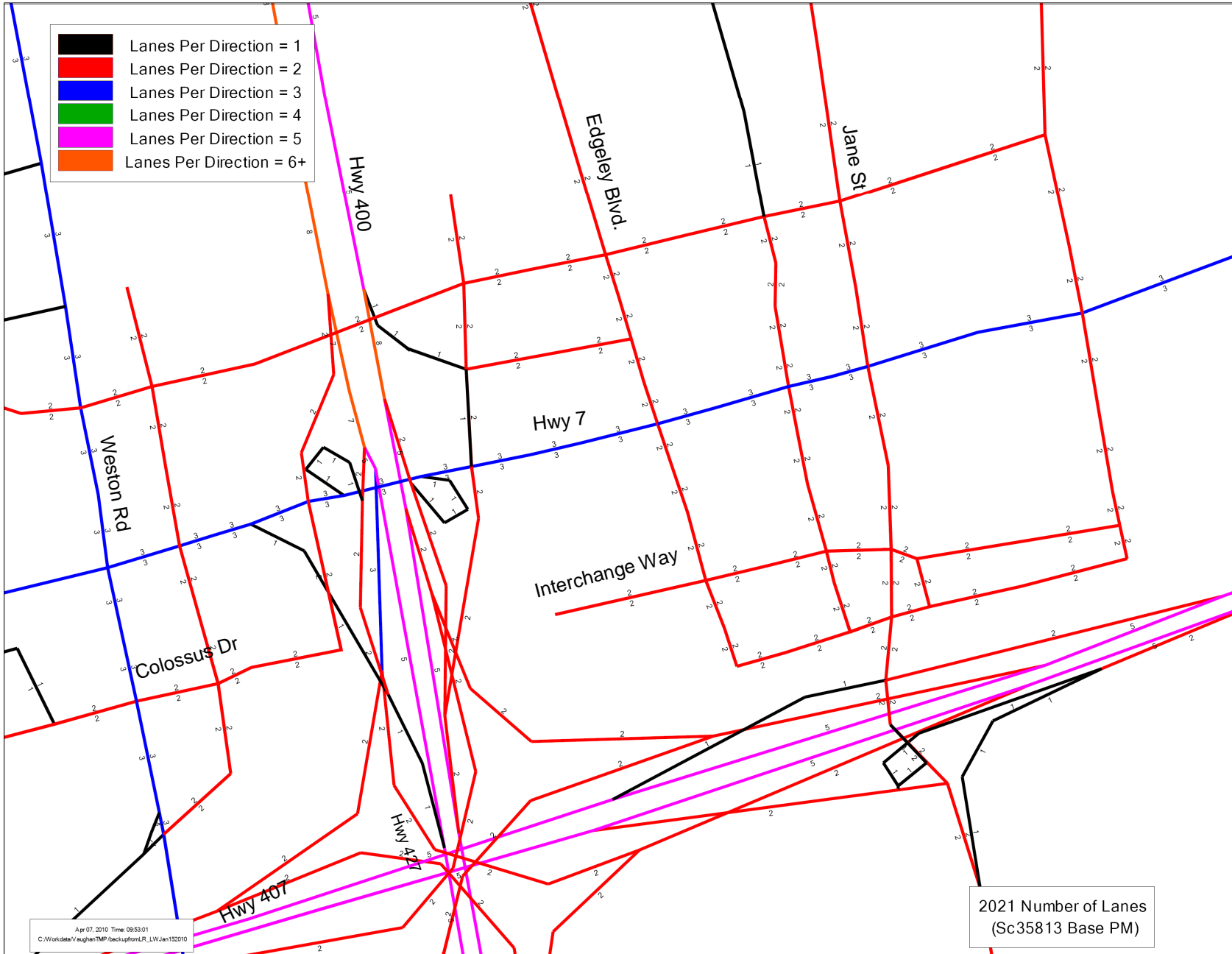
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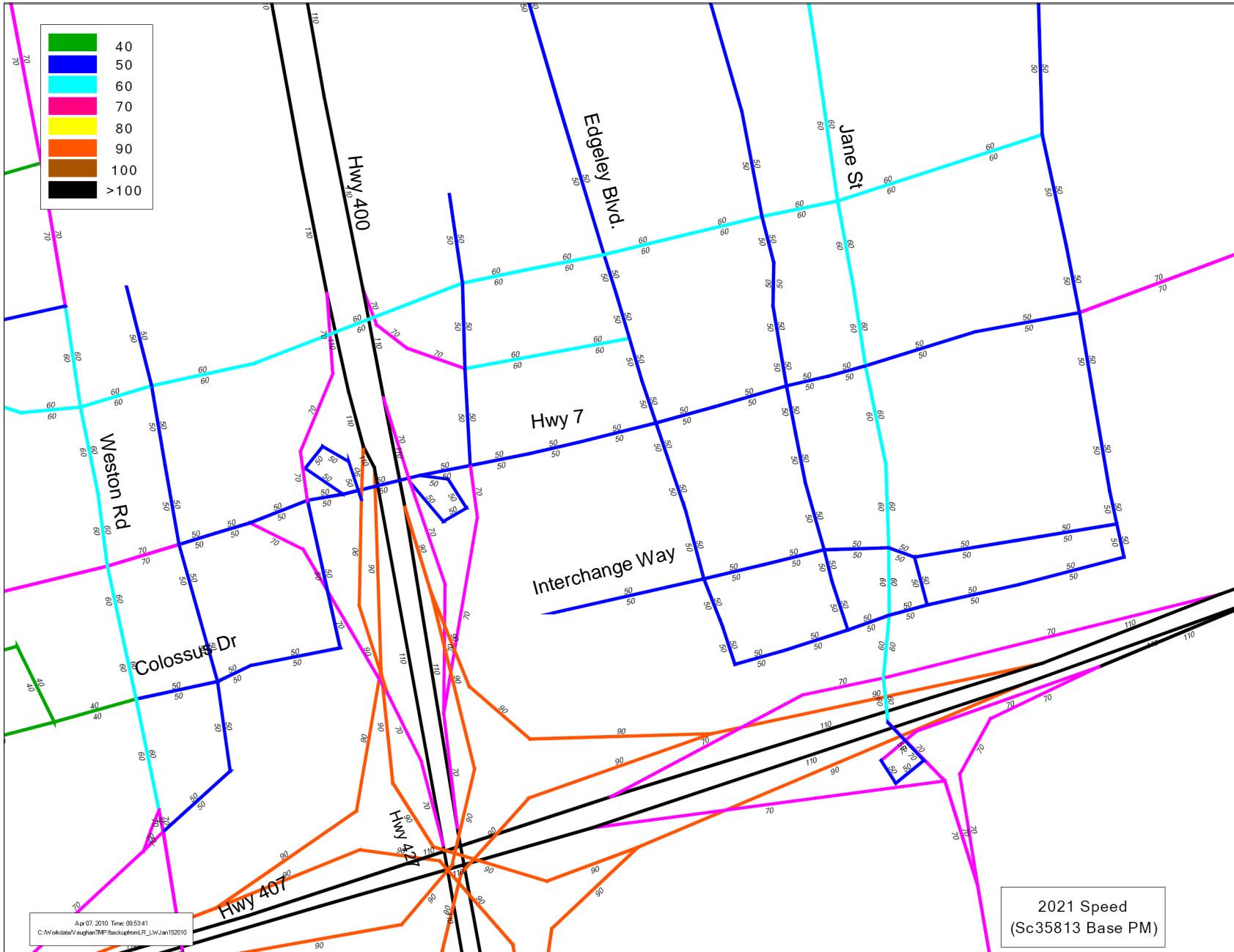
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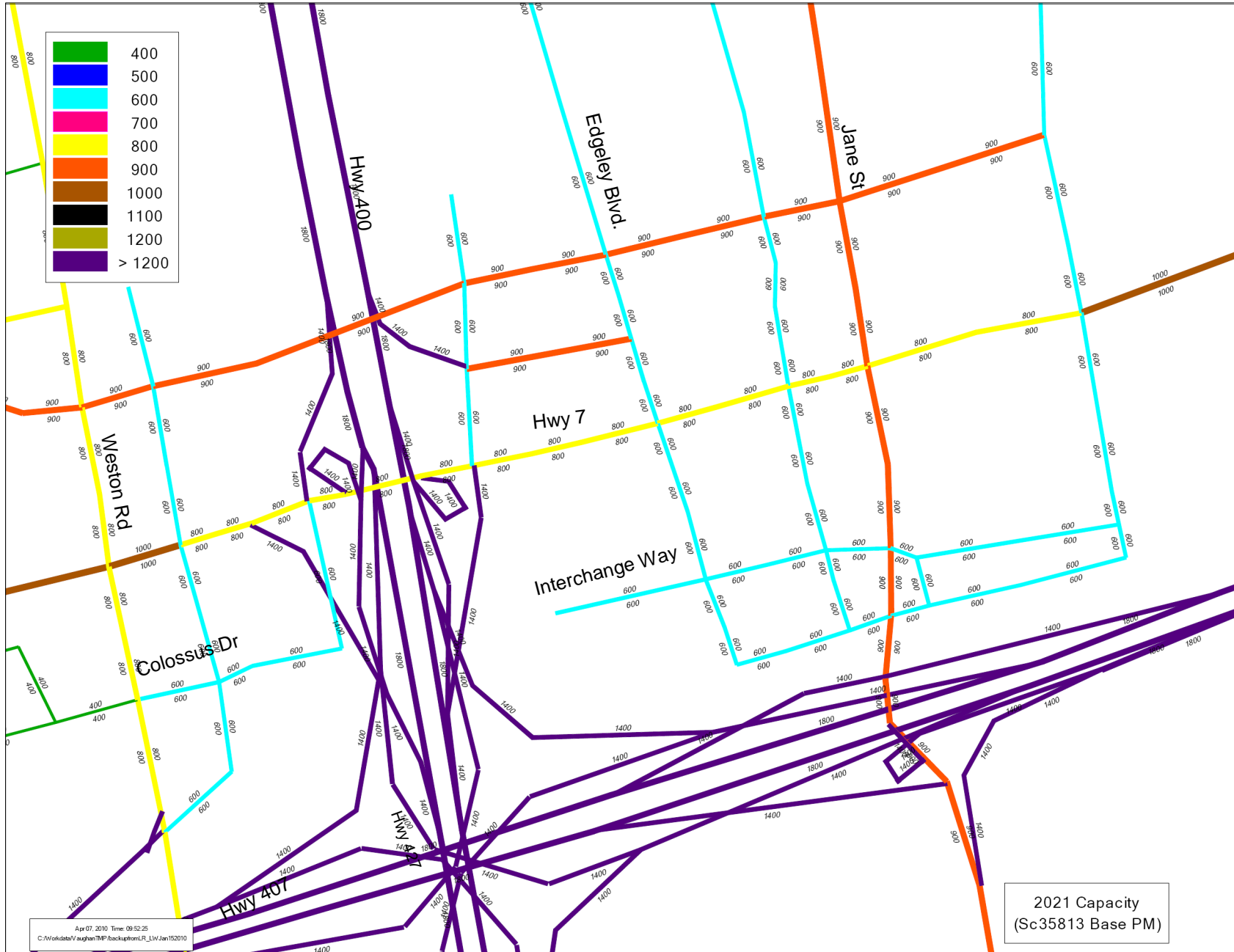
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