May 26, 2023

NCDOT STIP Project U-5307 (Capital Boulevard) Freeway Upgrade

Environmental Assessment Appendix B

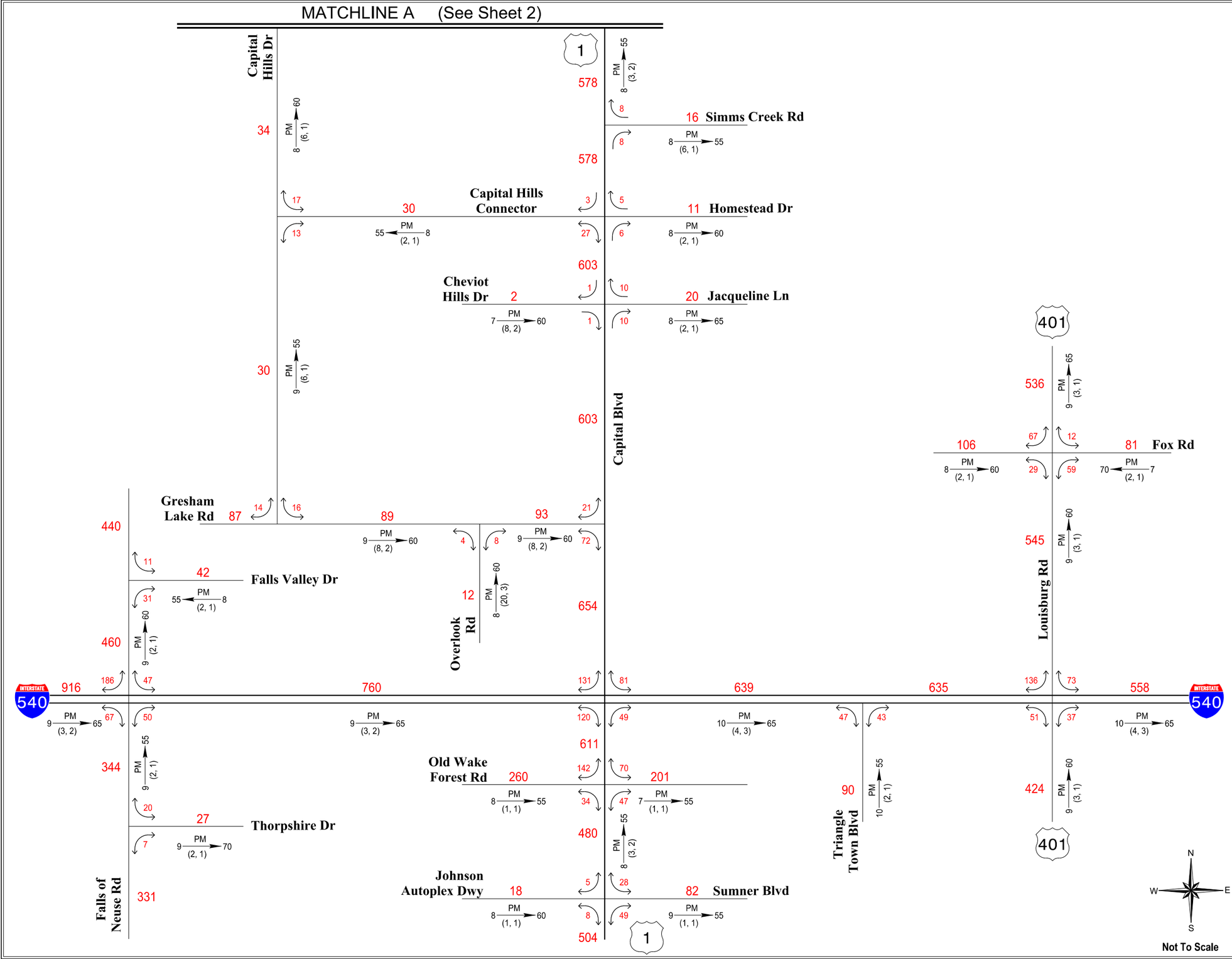
Appendix B – Supplemental Traffic Information

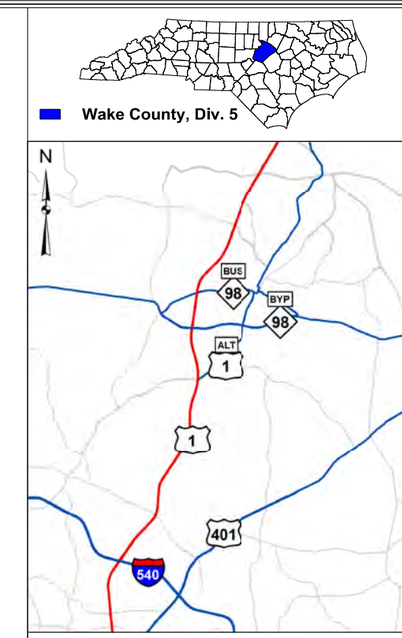
U-5307 Project Level Traffic Forecast Report (June 2017) – Traffic Volume Diagrams

- Figure 2, 2015 Base Year No-Build Conditions
- Figure 3, 2040 Future Year No-Build Conditions
- Figure 5, 2040 Future Year Build Conditions, Scenario A
- Figure 6, 2040 Future Year Build Conditions, Scenario B
- Figure 7, 2040 Future Year Build Conditions, Scenario C
- Figure 8, 2040 Future Year Build Conditions, Scenario D
- Figure 9, 2040 Future Year Build Conditions, Scenario E

U-5307 Typical Section Documentation Memorandum (February 1, 2023) – US 1 Mainline Proposed Lanes Graphics

- Figure 1, Segment D – US 1 Mainline Proposed Lanes Graphic
- Figure 2, Segment C – US 1 Mainline Proposed Lanes Graphic
- Figure 3, Segment B – US 1 Mainline Proposed Lanes Graphic
- Figure 4, Segment A – US 1 Mainline Proposed Lanes Graphic





2015

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

BASE YEAR
NO BUILD CONDITIONS

FIGURE 2 SHEET 1 of 7

LEGEND

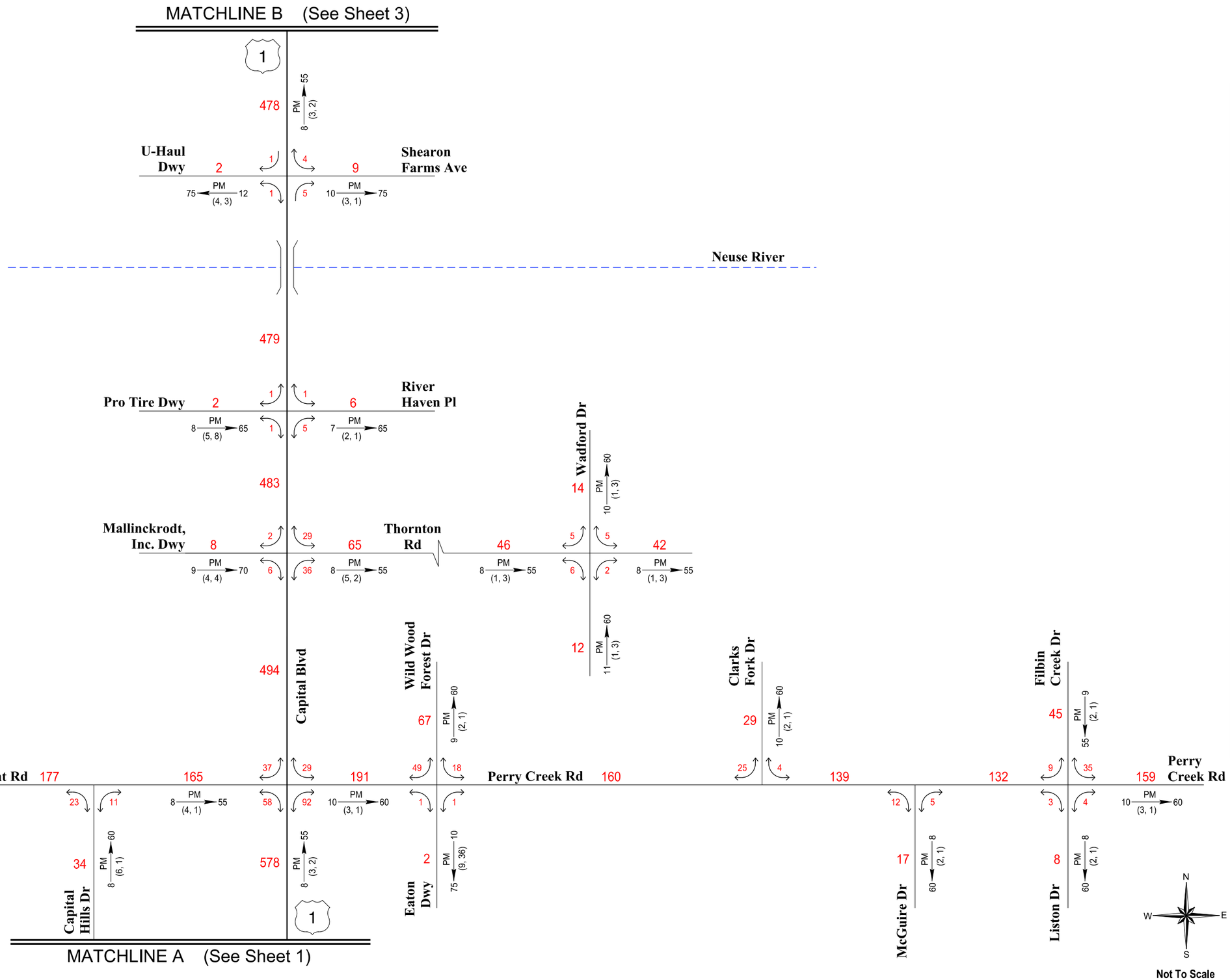
DHV $\xrightarrow[(d,t)]{PM}$ D

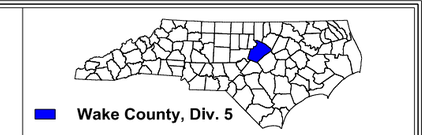
000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

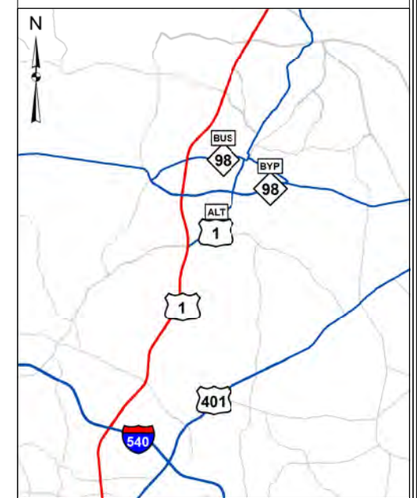
TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

LOCATION:
US 1 (Capital Blvd) from I-540 to
SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade







2015

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

BASE YEAR
NO BUILD CONDITIONS

FIGURE 2 SHEET 2 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
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PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307	**WBS:** 47027.1.1
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LOCATION:
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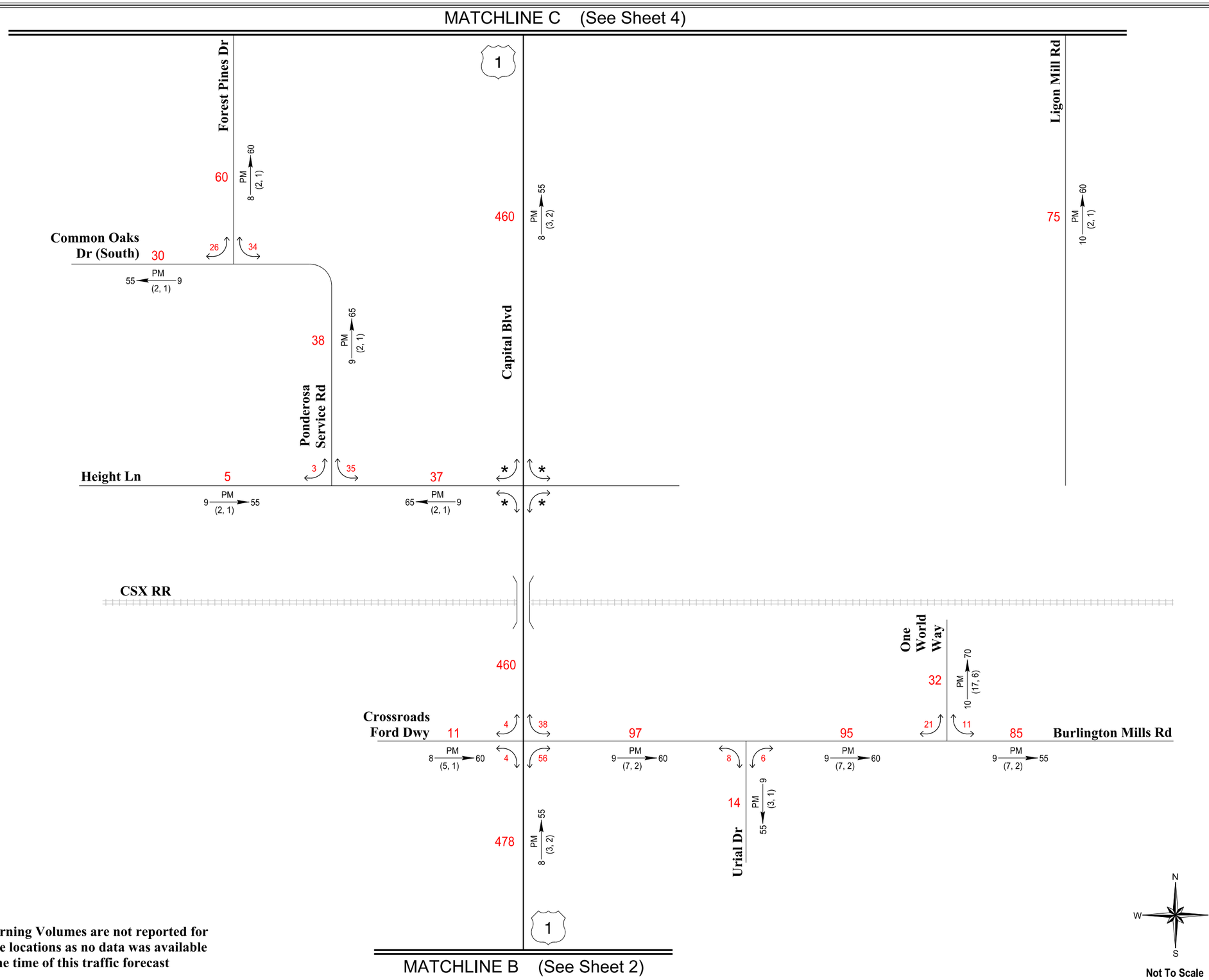
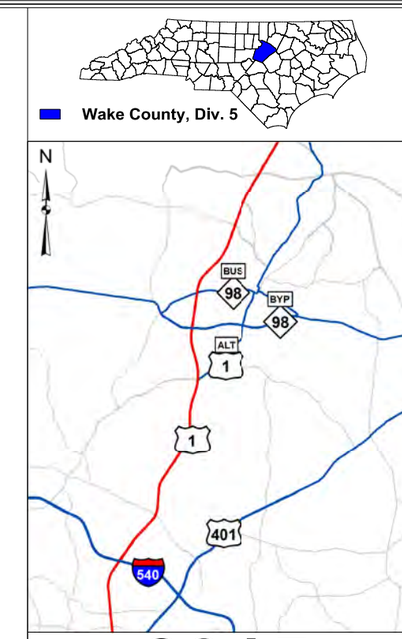


*Turning Volumes are not reported for these locations as no data was available at the time of this traffic forecast



2015

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

BASE YEAR
NO BUILD CONDITIONS

FIGURE 2 SHEET 3 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

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→	Direction of D
(d,t)	Duals, TT-ST's (%)

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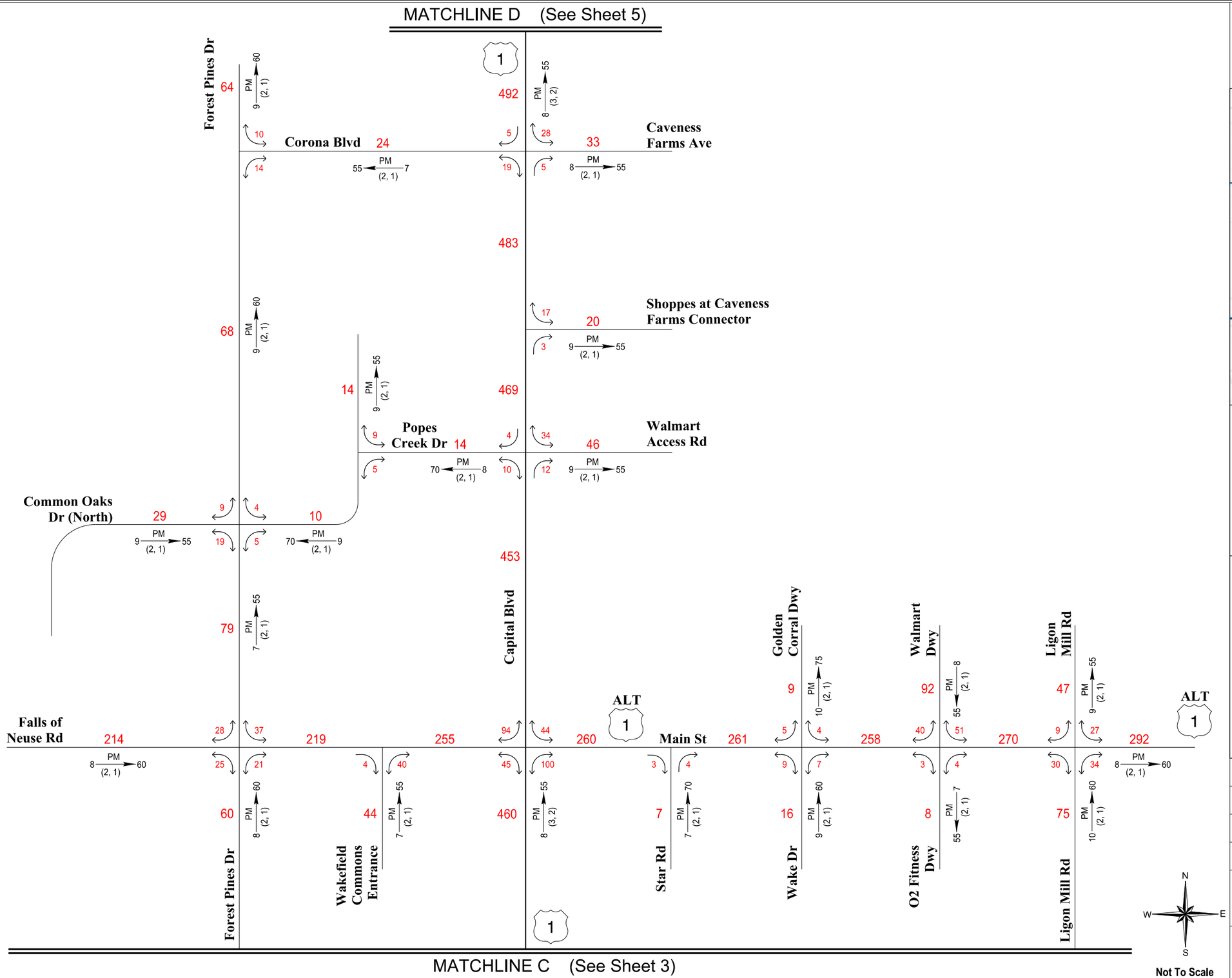

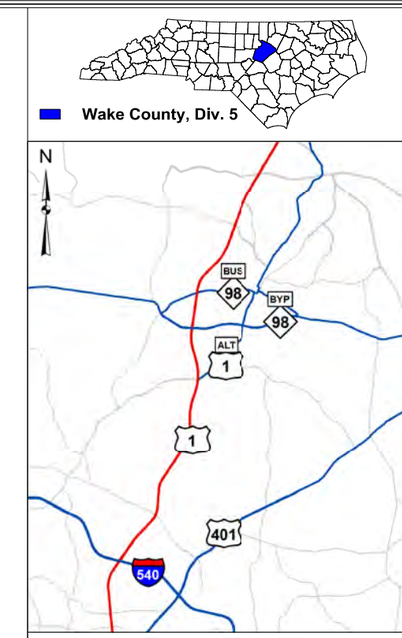

2015

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

BASE YEAR
NO BUILD CONDITIONS

FIGURE 2 SHEET 4 of 7

LEGEND

DHV —PM (d,t)→ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

LOCATION:
US 1 (Capital Blvd) from I-540 to
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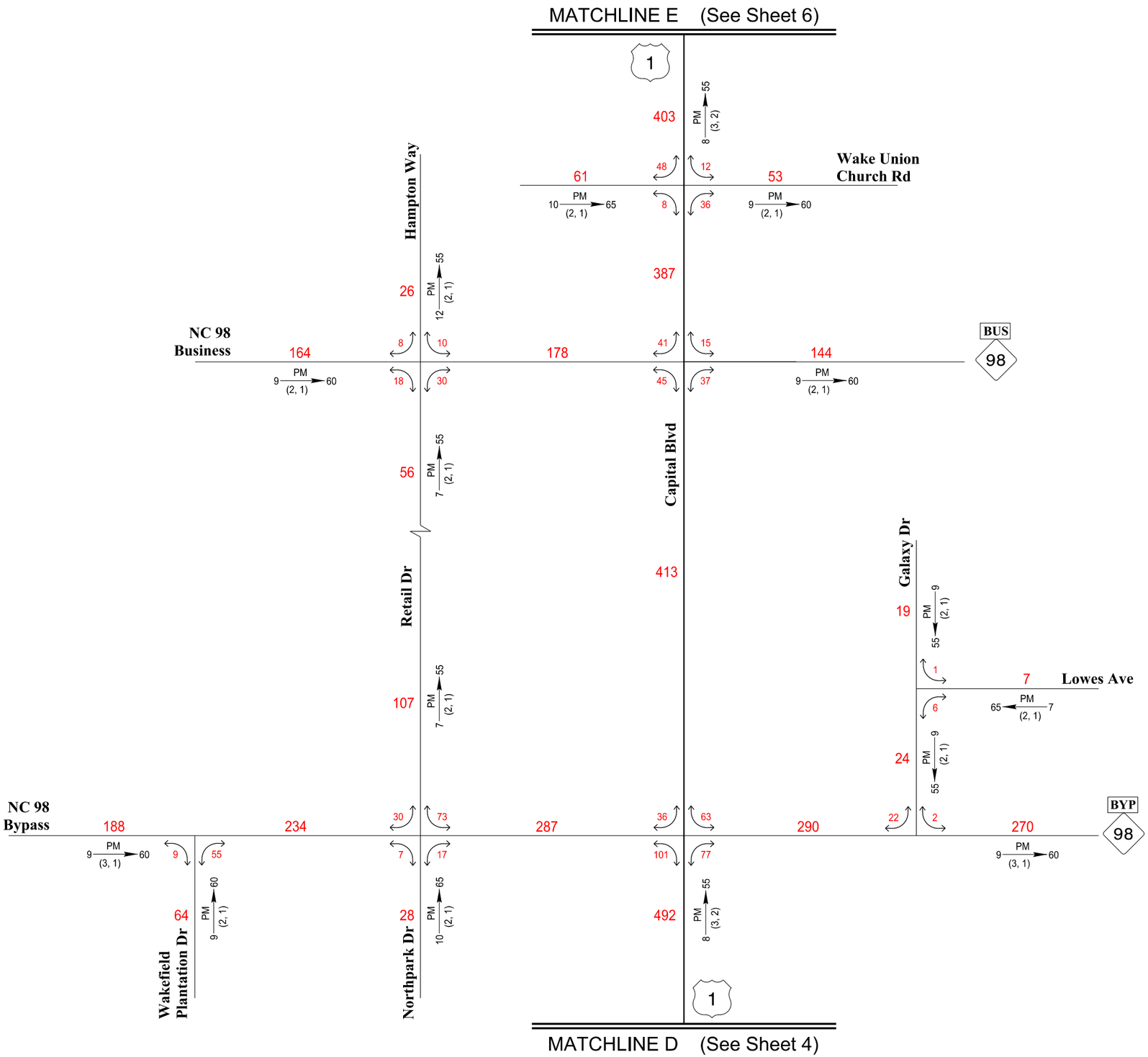

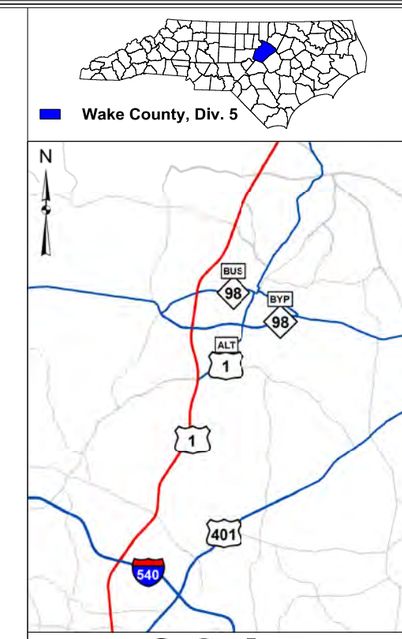

2015

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

BASE YEAR
NO BUILD CONDITIONS

FIGURE 2 SHEET 5 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
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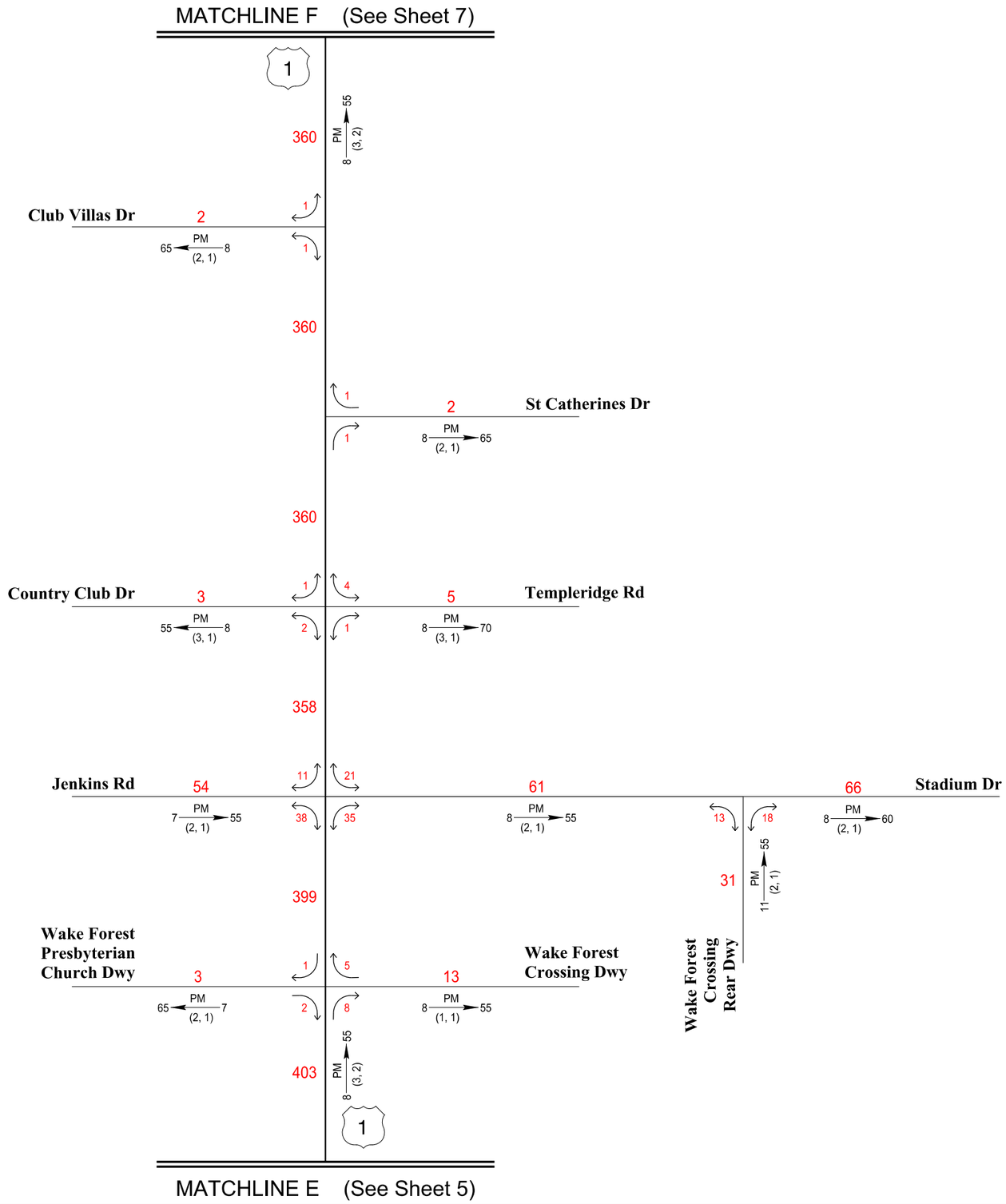
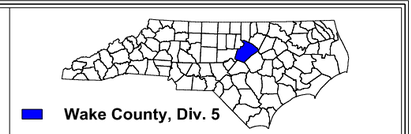
PROJECT:
US 1 (Capital Blvd) Freeway Upgrade

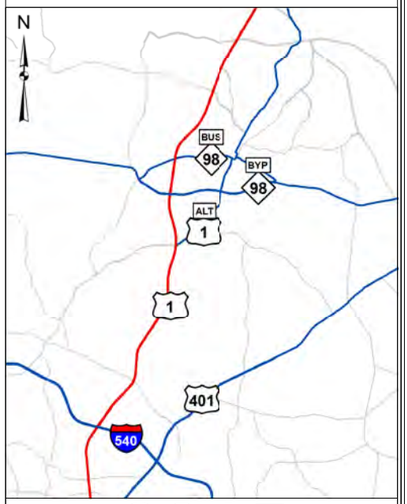
N W E S

Not To Scale



Locations added in the Extended Study Area





2015

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

BASE YEAR NO BUILD CONDITIONS

FIGURE 2 SHEET 6 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

LOCATION:
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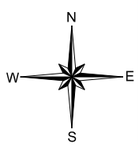
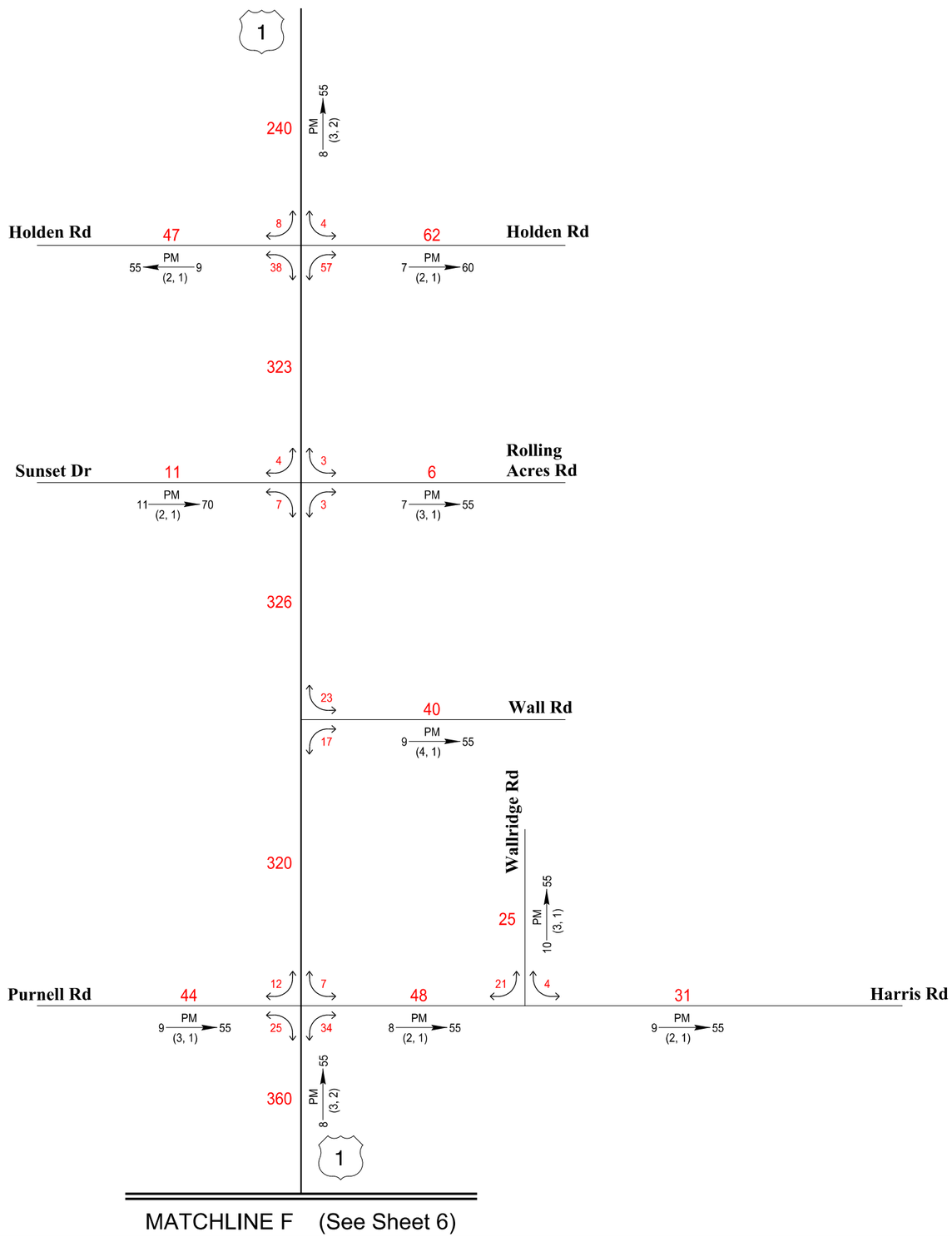
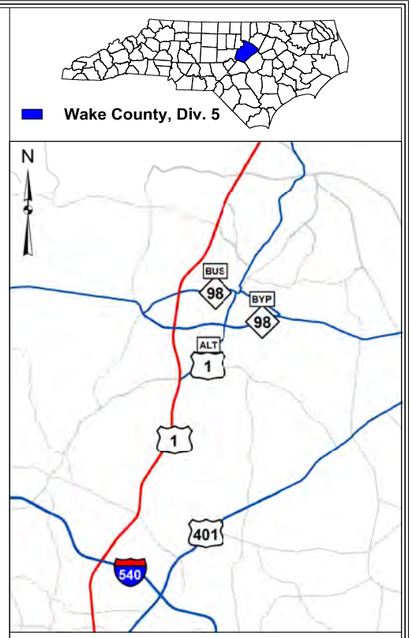


Not To Scale

Locations added in the Extended Study Area





2015

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

BASE YEAR
NO BUILD CONDITIONS

FIGURE 2 SHEET 7 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

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DHV	Design Hourly Volume (%)
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N
W E
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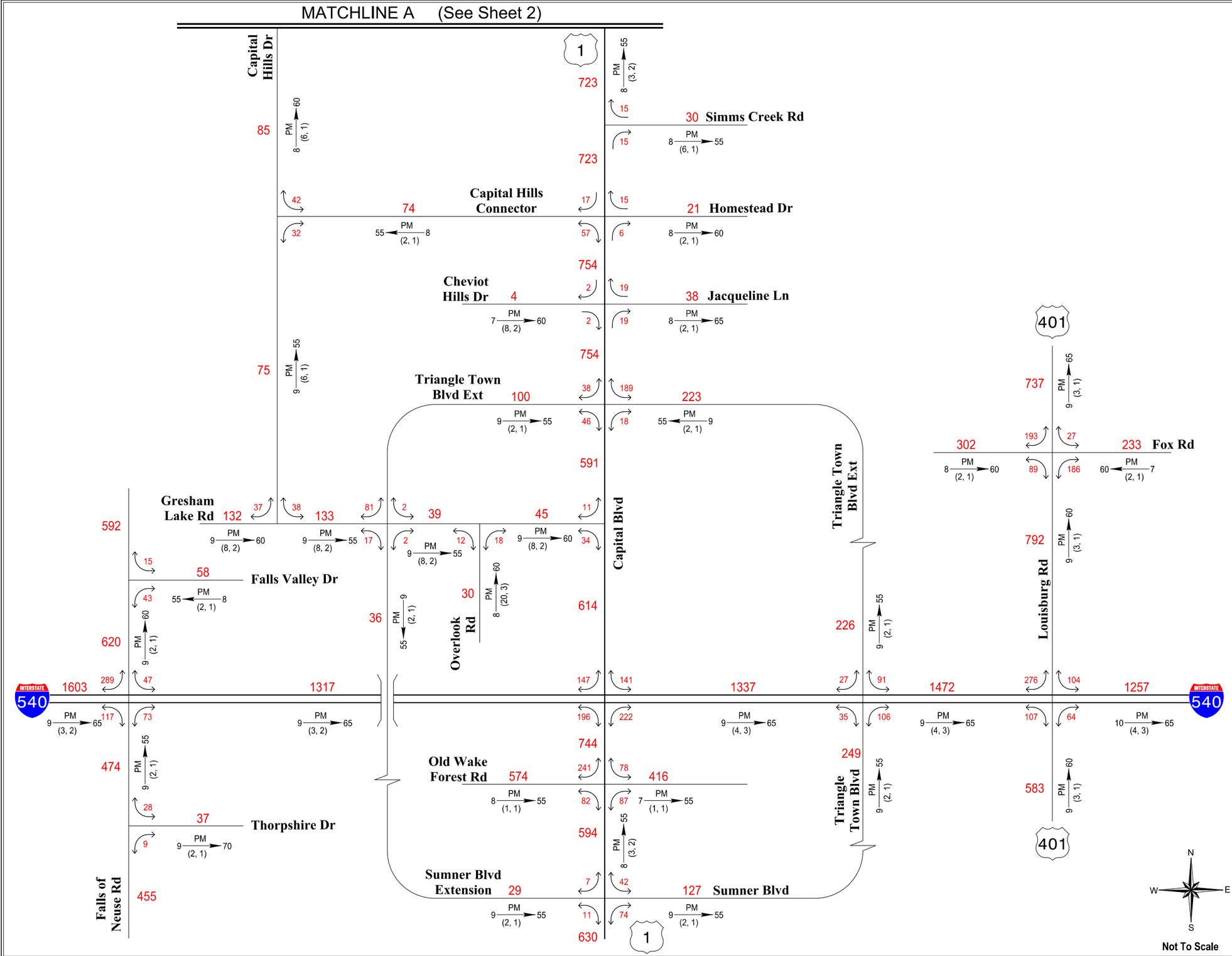

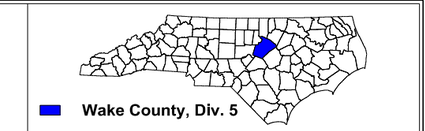

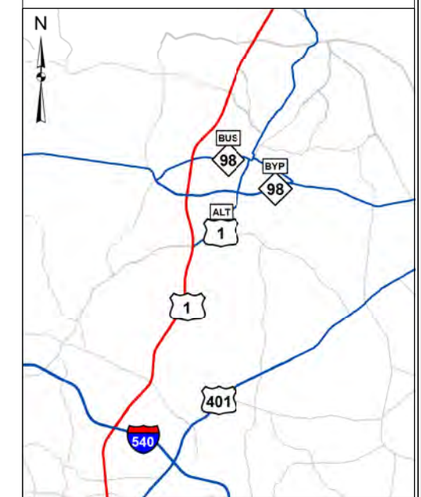

2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

FUTURE YEAR
NO BUILD CONDITIONS

FIGURE 3 SHEET 1 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

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PROJECT:
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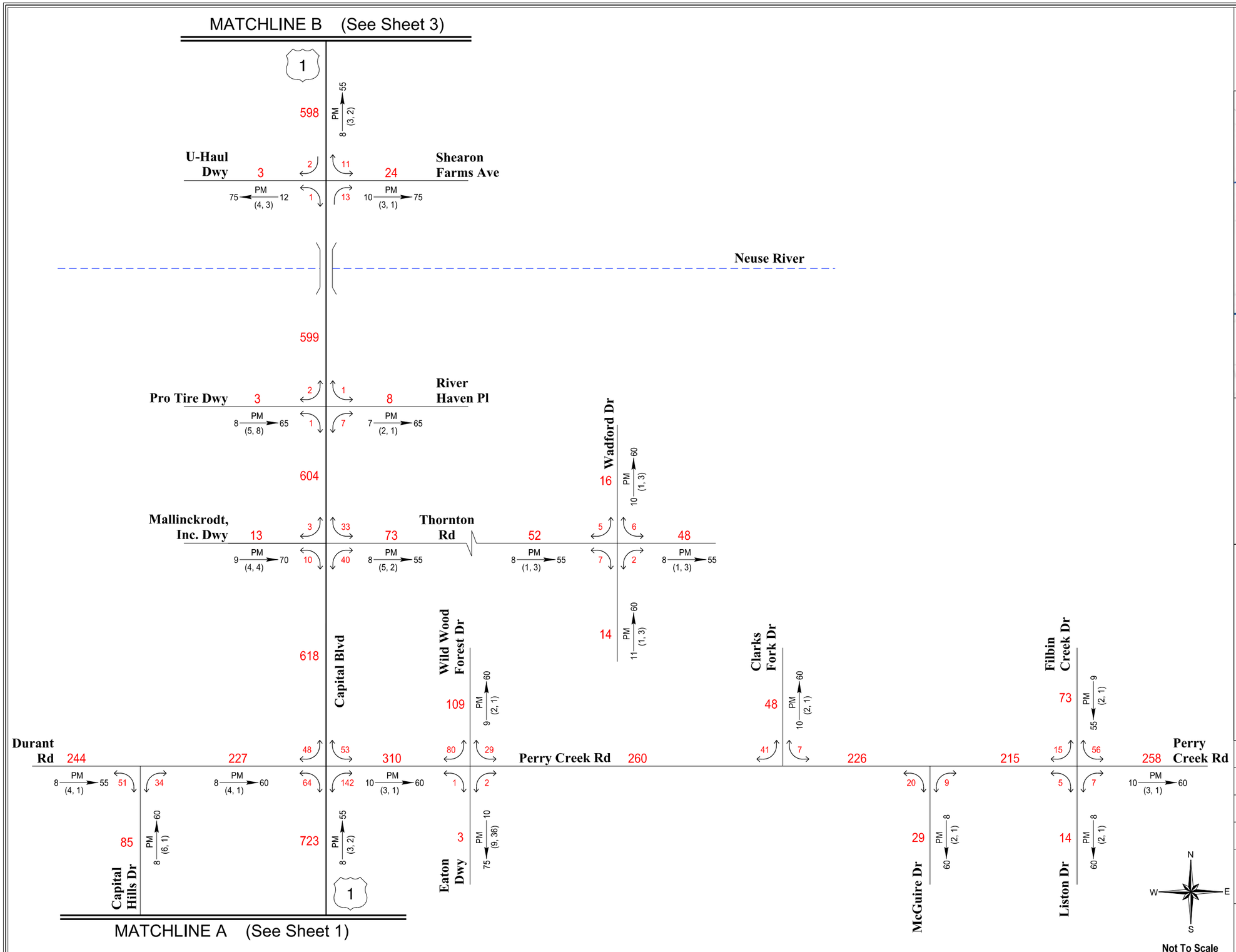

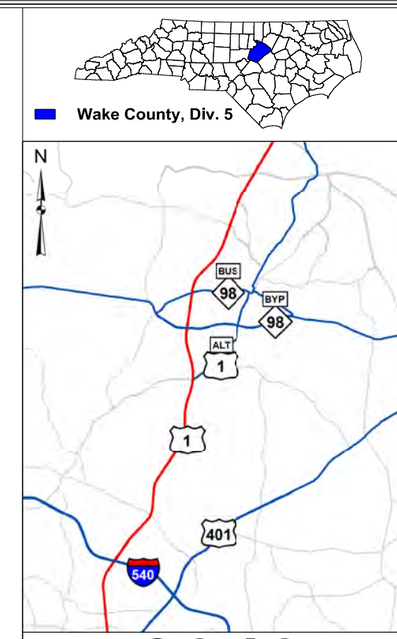

2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

FUTURE YEAR
NO BUILD CONDITIONS

FIGURE 3 SHEET 2 of 7

LEGEND

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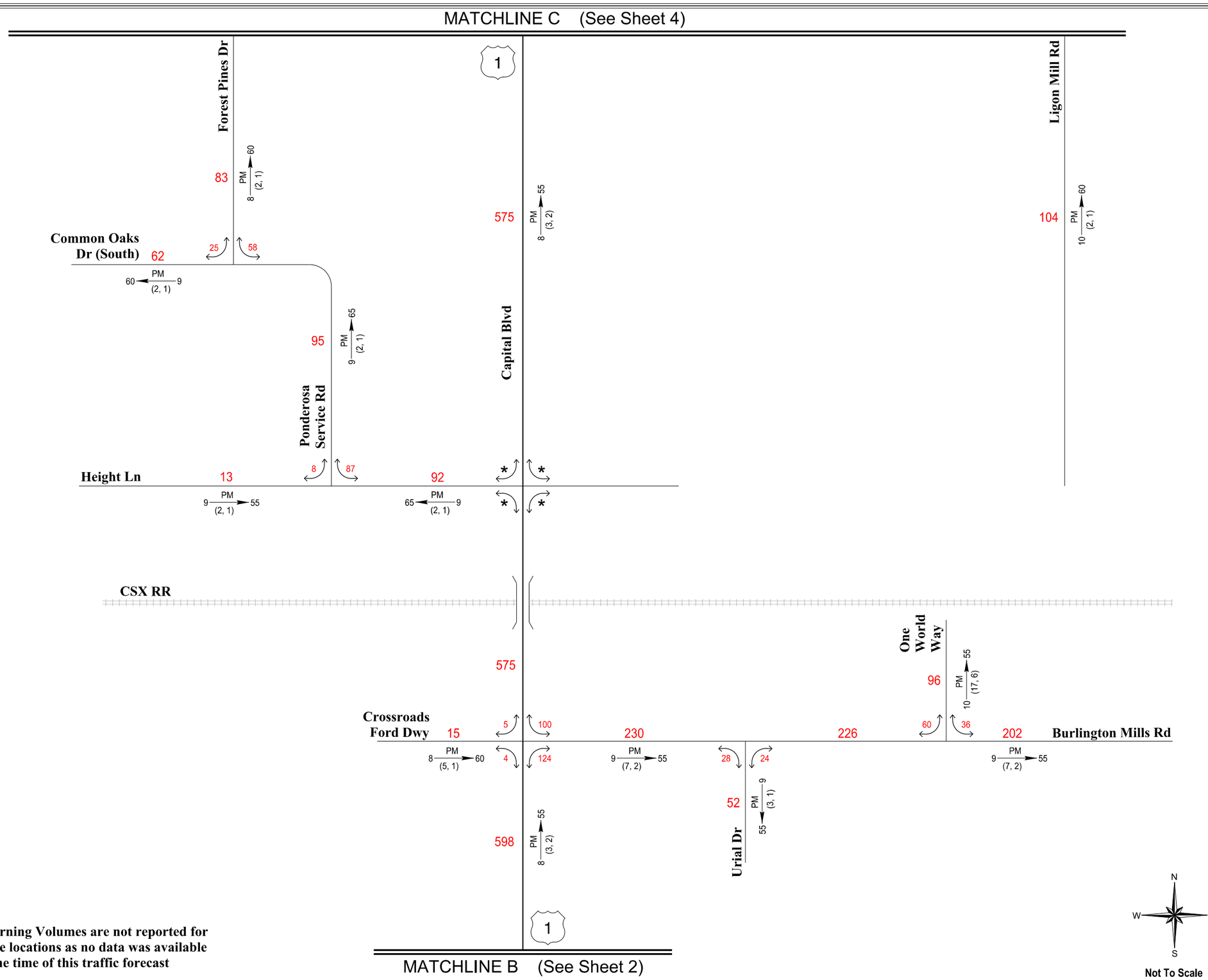

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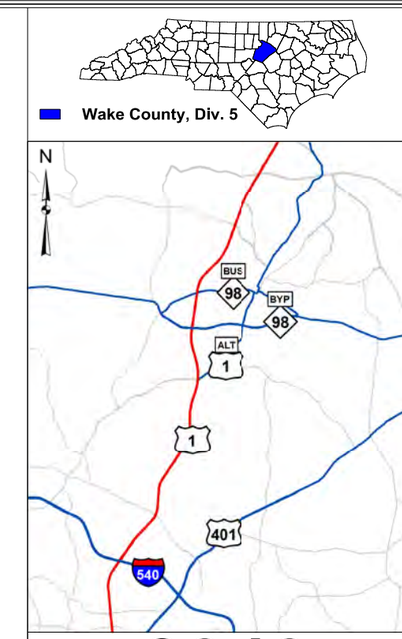

2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

FUTURE YEAR
NO BUILD CONDITIONS

FIGURE 3 SHEET 3 of 7

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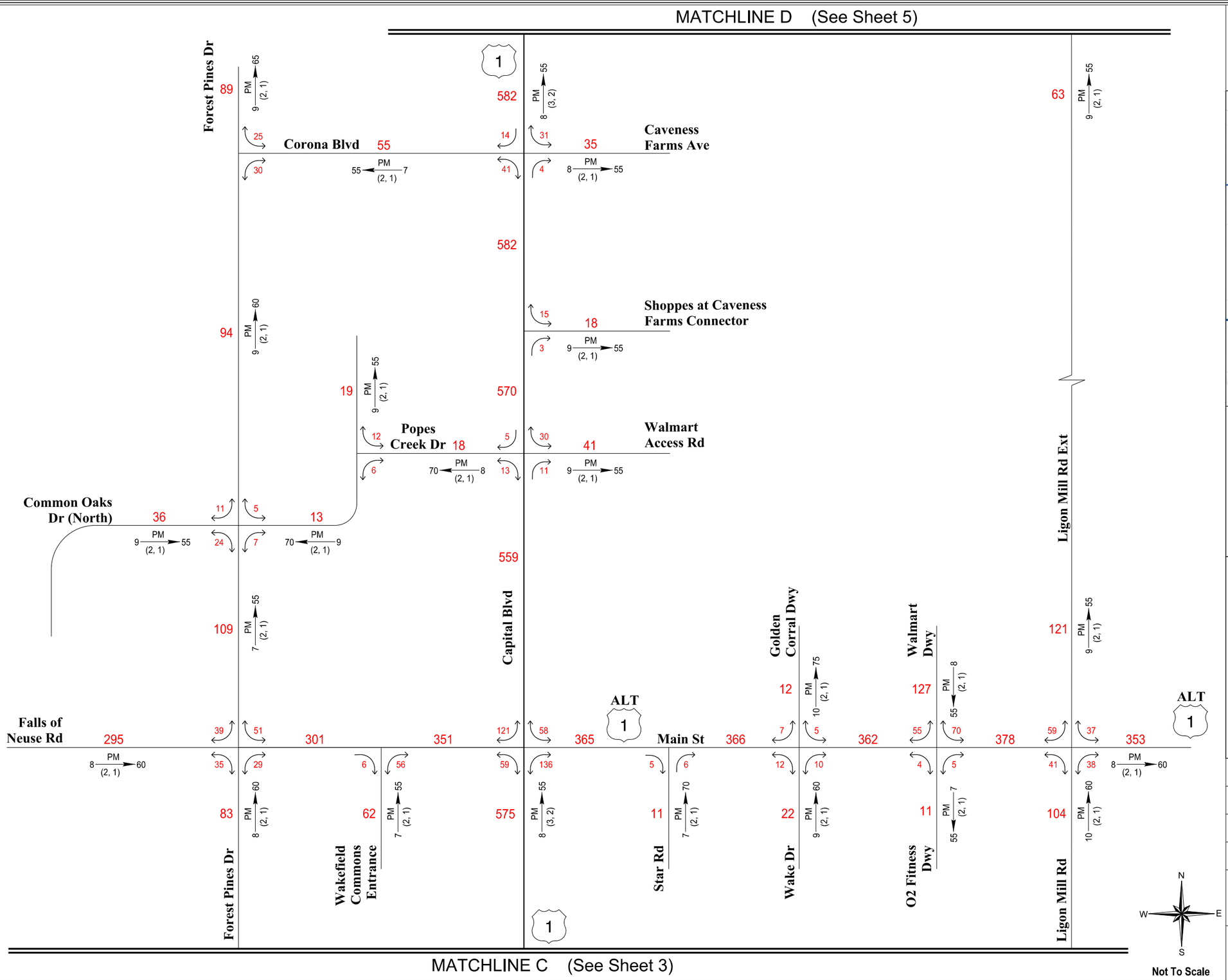

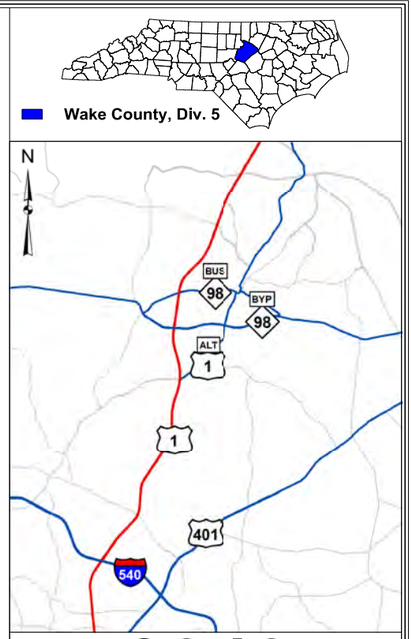

2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

FUTURE YEAR
NO BUILD CONDITIONS

FIGURE 3 SHEET 4 of 7

LEGEND

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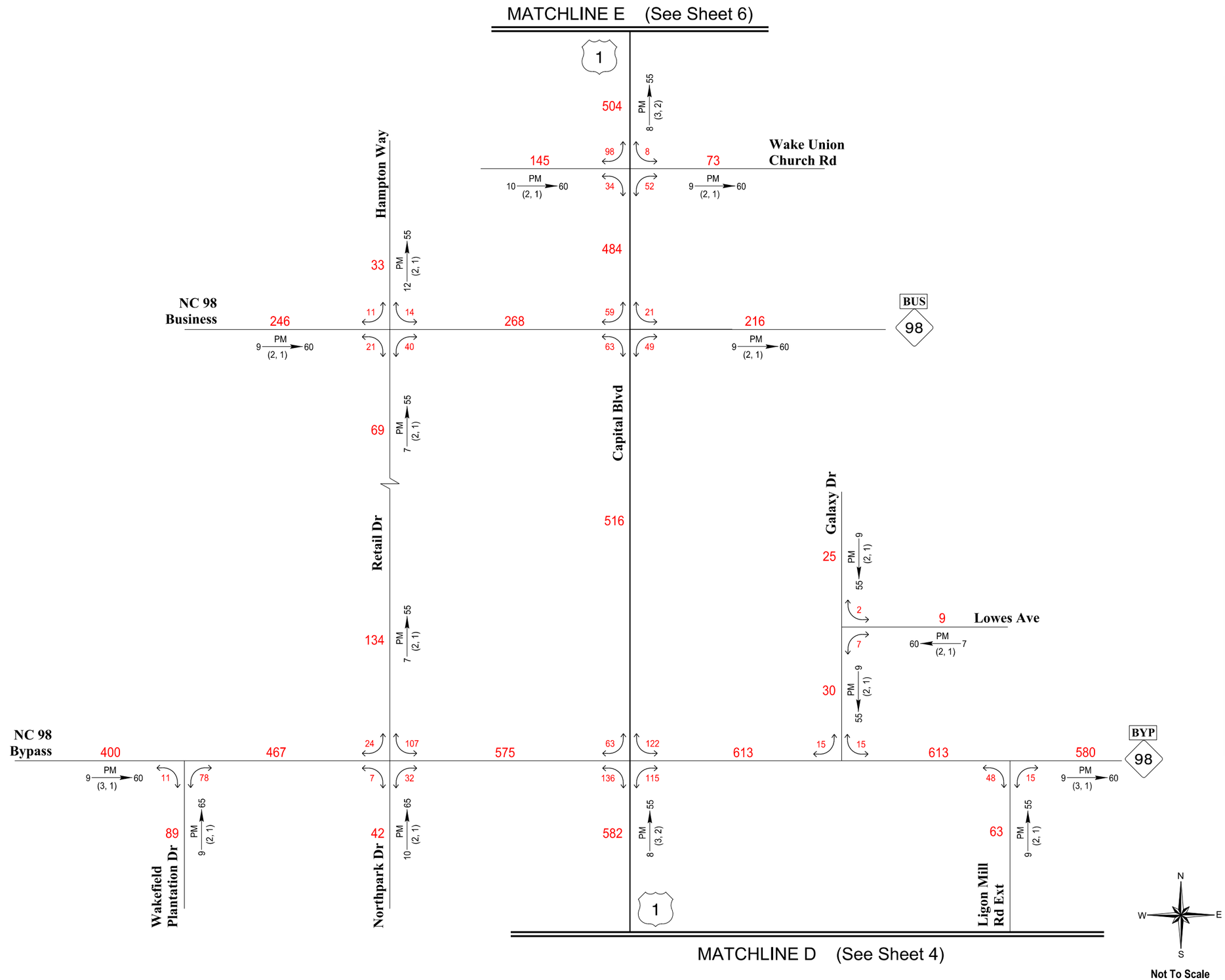

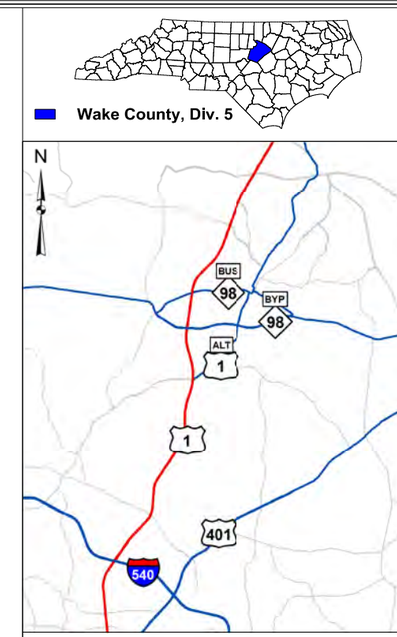

2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

FUTURE YEAR
NO BUILD CONDITIONS

FIGURE 3 SHEET 5 of 7

LEGEND

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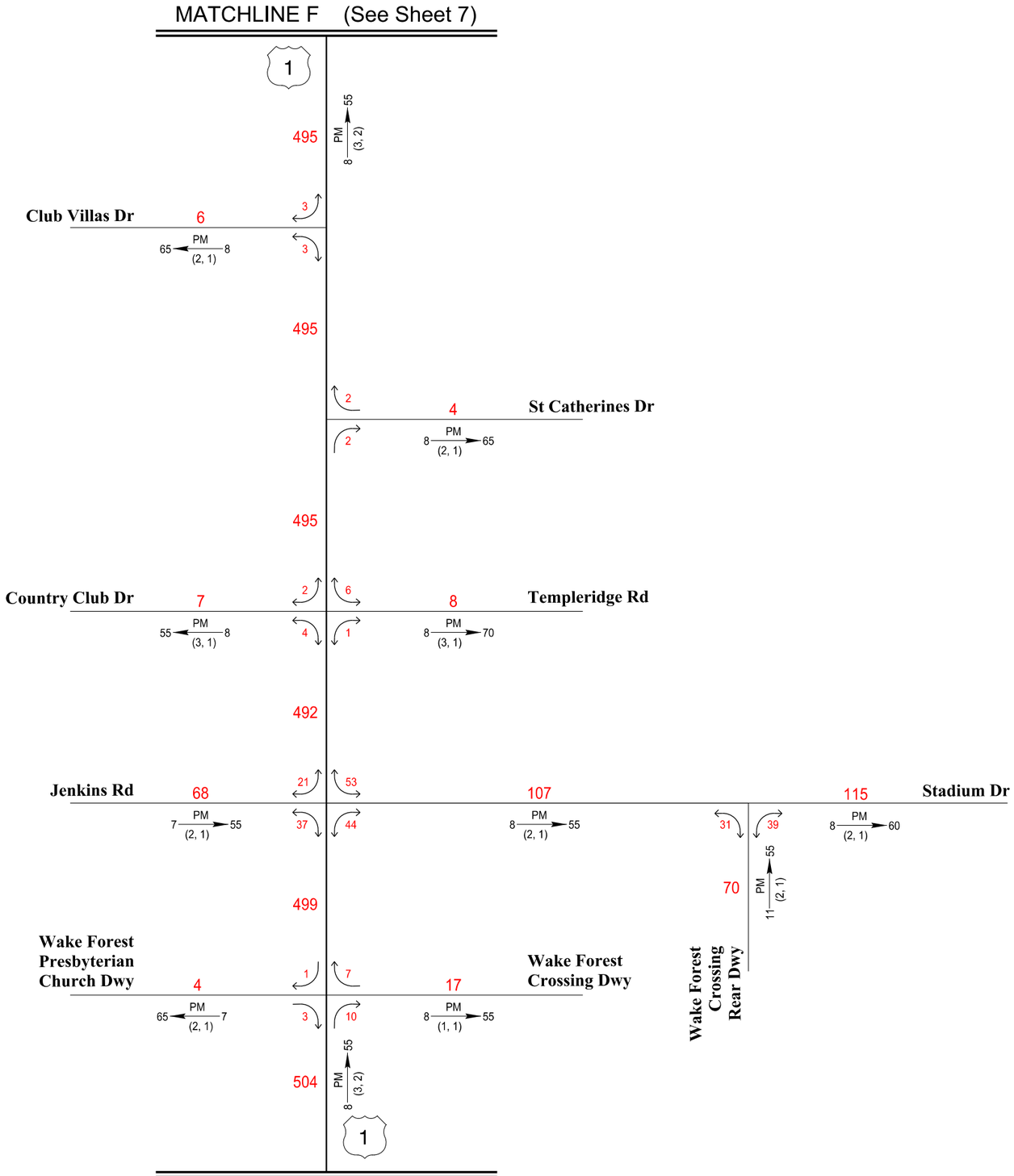
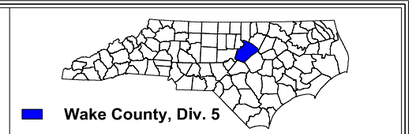
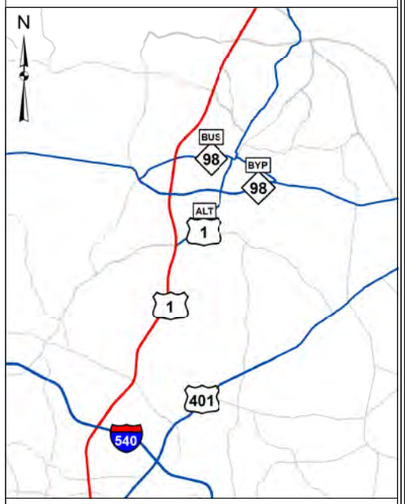


Locations added in the Extended Study Area





2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

FUTURE YEAR
NO BUILD CONDITIONS

FIGURE 3 SHEET 6 of 7

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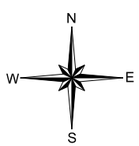
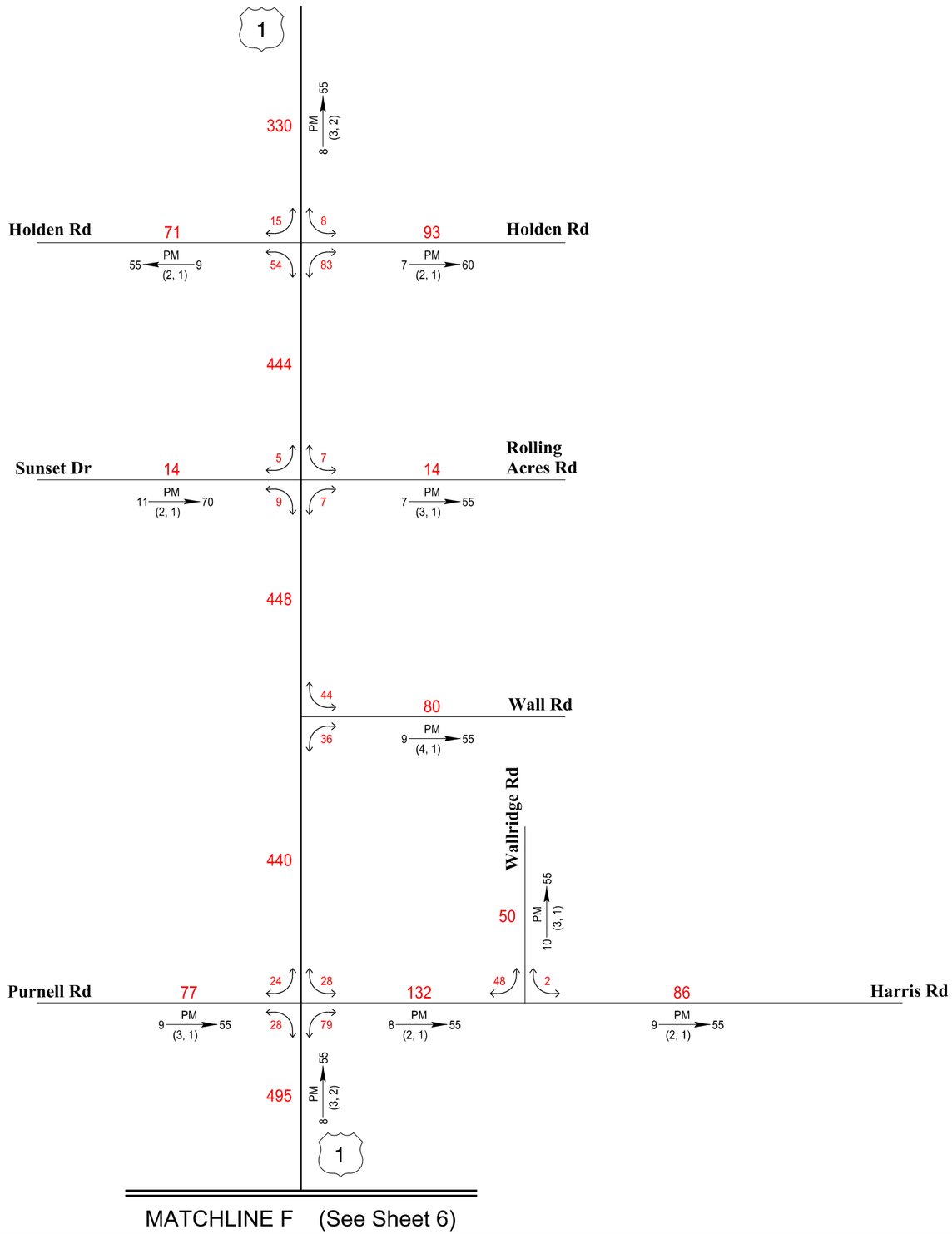
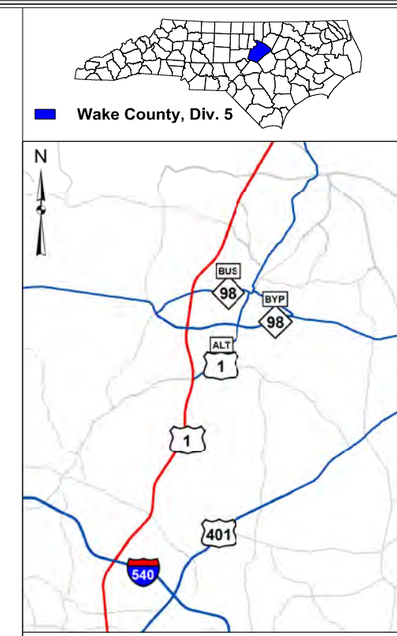


Not To Scale



Locations added in the Extended Study Area



2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

FUTURE YEAR
NO BUILD CONDITIONS

FIGURE 3 SHEET 7 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

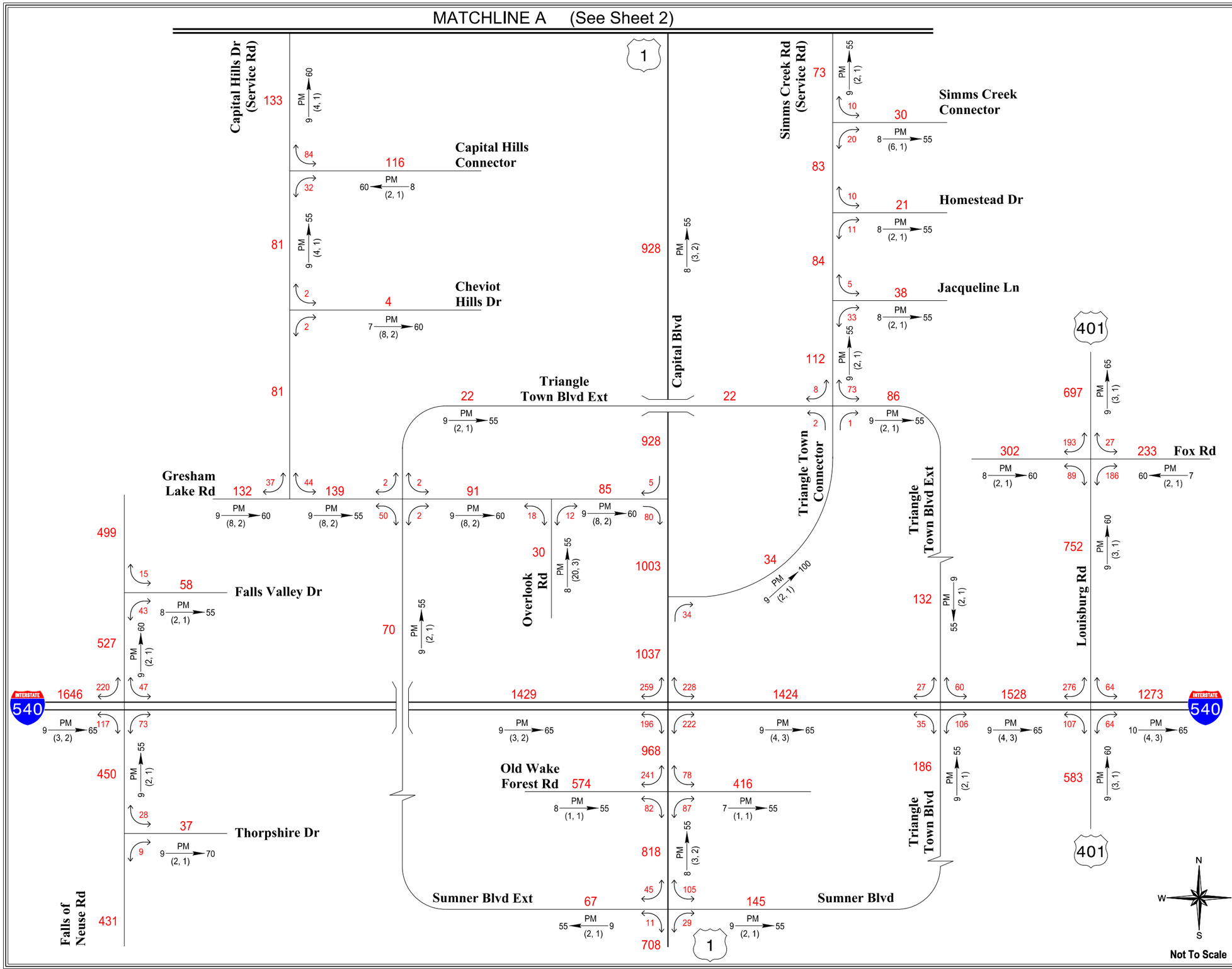
TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

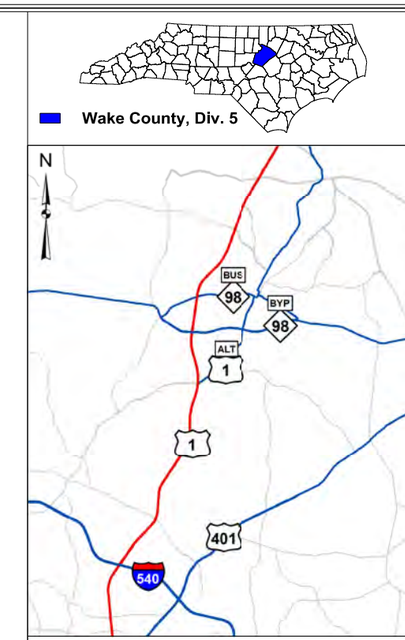
LOCATION:
US 1 (Capital Blvd) from I-540 to
SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade

N W E S

Not To Scale





2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario A

FIGURE 5 SHEET 1 of 7

LEGEND

DHV $\xrightarrow{\text{PM}}$ D
(d,t)

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

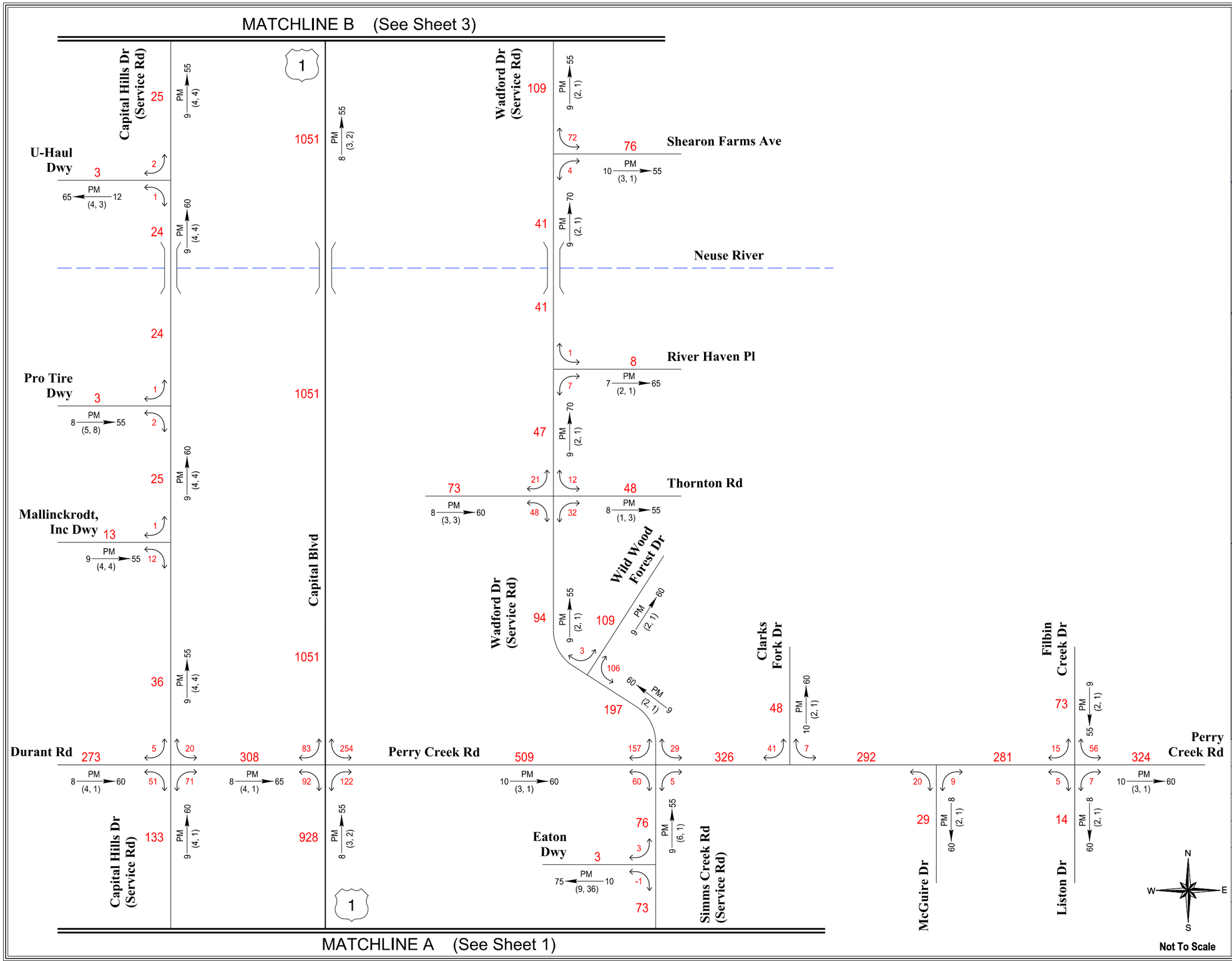
TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5

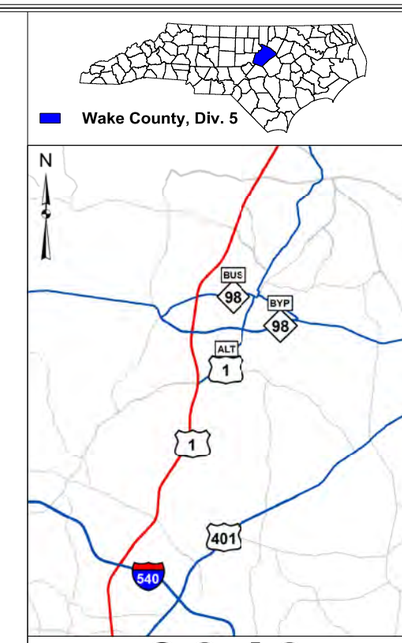
DATE: June 2017

PREPARED BY: RS&H

LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade





2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario A

FIGURE 5 SHEET 2 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307 **WBS:** 47027.1.1

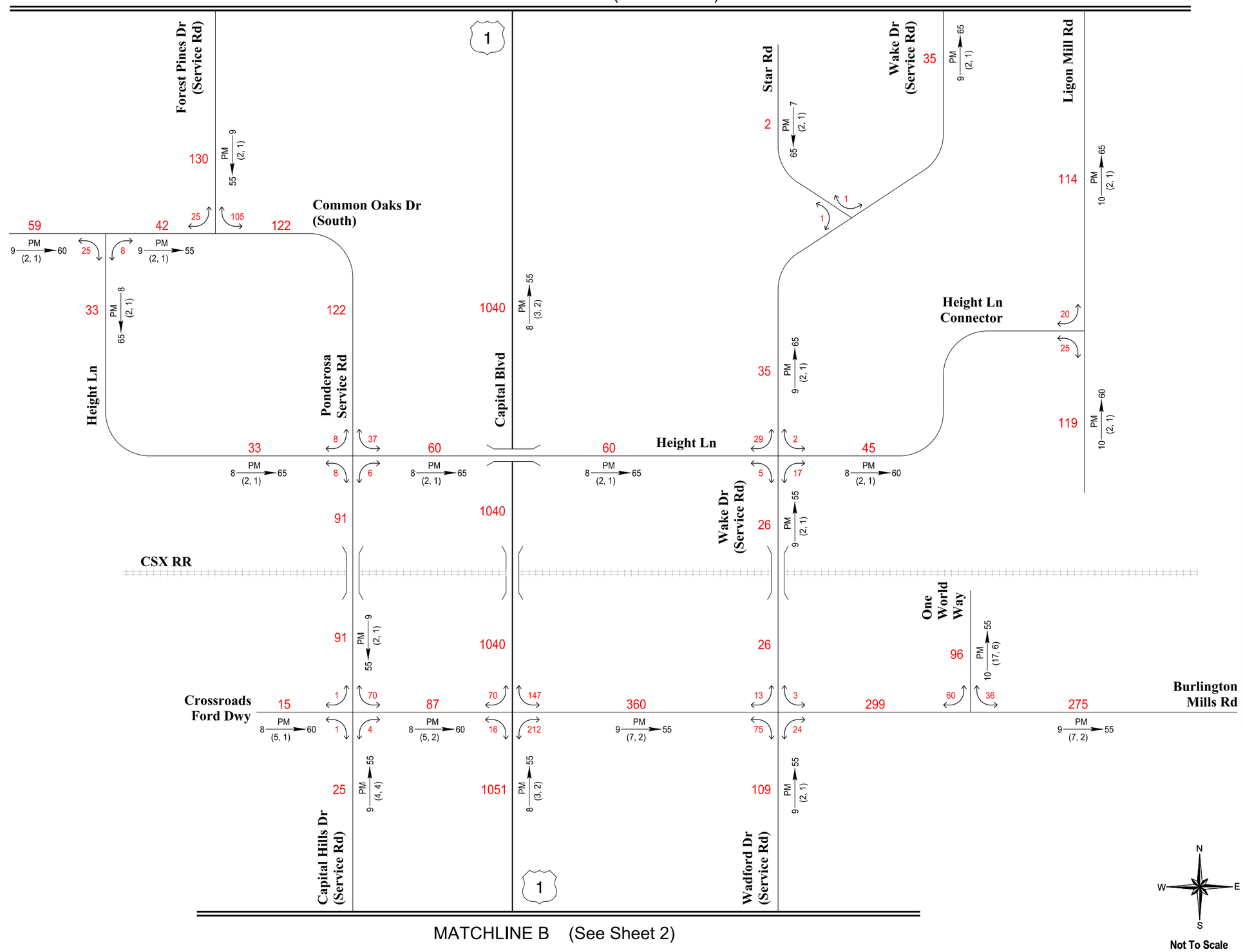
COUNTY: Wake **DIVISION:** 5

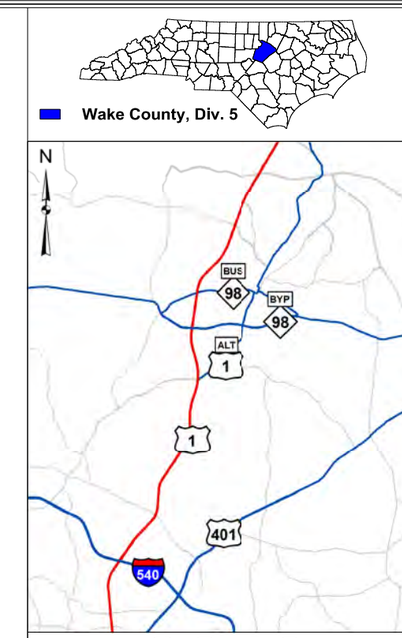
DATE: June 2017

PREPARED BY: RS&H

LOCATION:
US 1 (Capital Blvd) from I-540 to
SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade





2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario A

FIGURE 5 SHEET 3 of 7

LEGEND

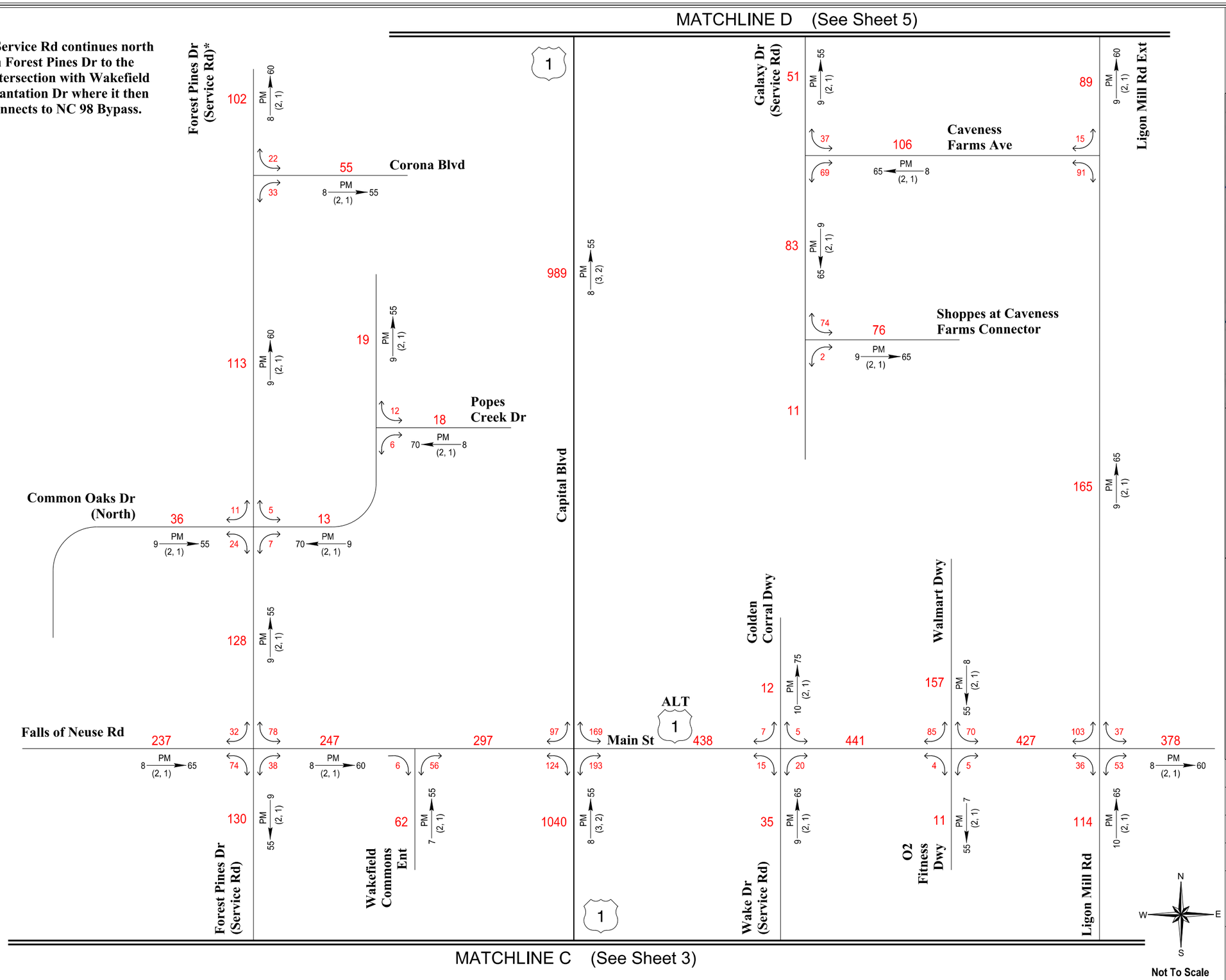
DHV $\xrightarrow[(d,t)]{PM}$ D

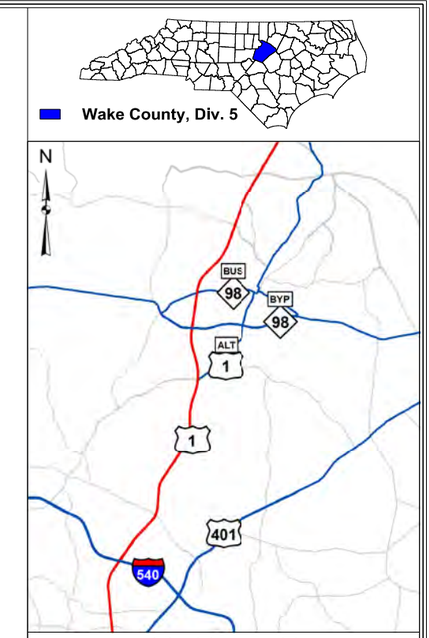
000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade





2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario A

FIGURE 5 SHEET 4 of 7

LEGEND

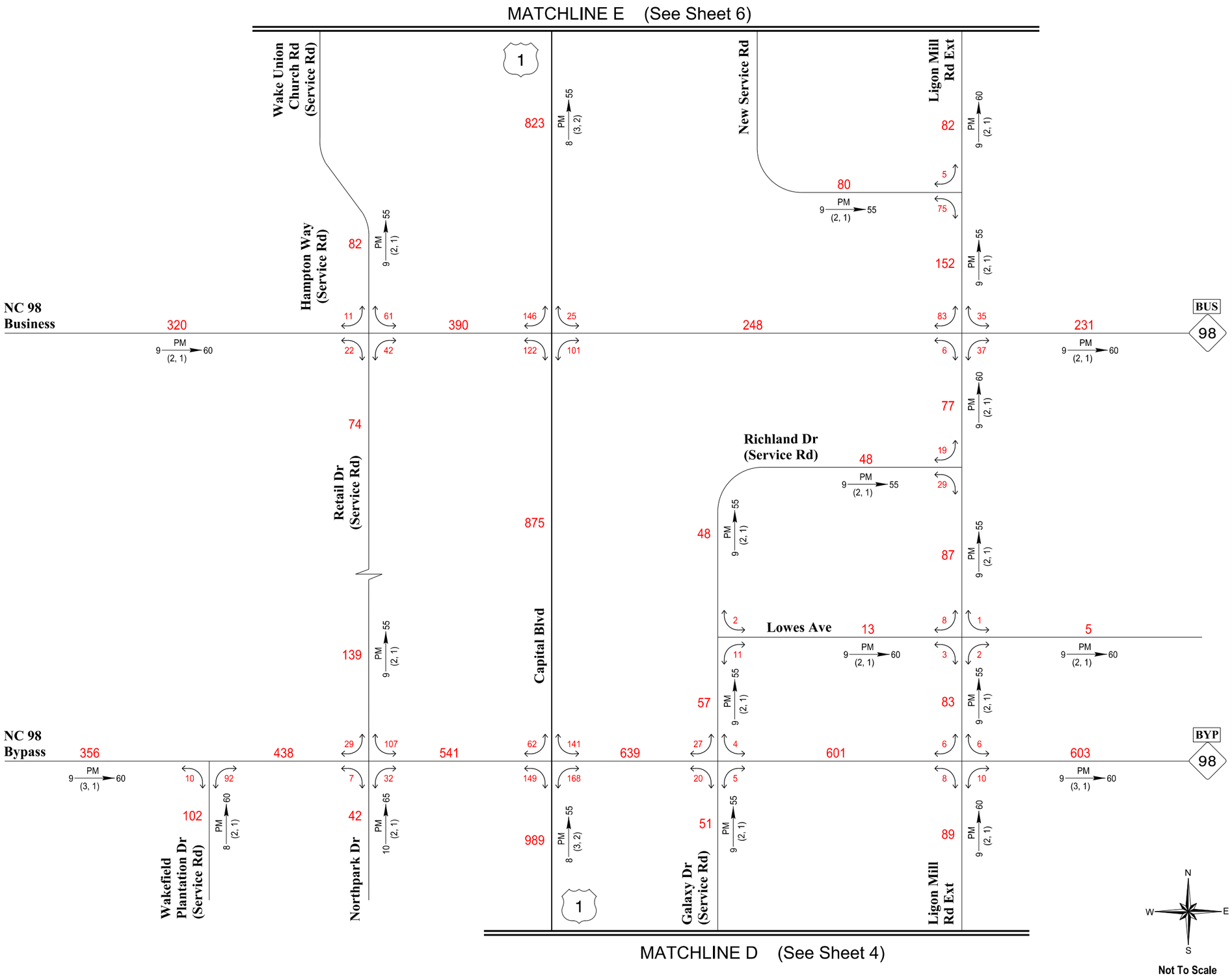
DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

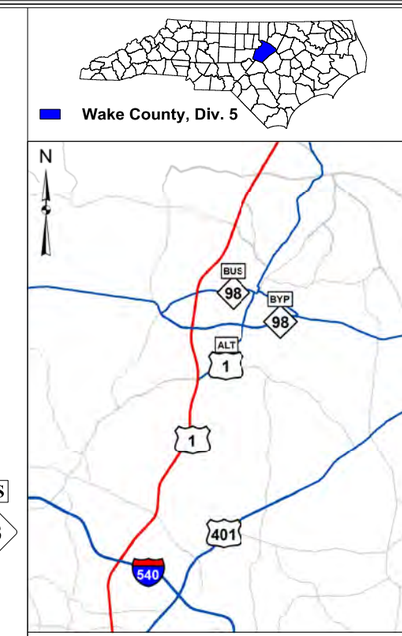
TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade



MATCHLINE D (See Sheet 4)



2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario A

FIGURE 5 SHEET 5 of 7

LEGEND

DHV —PM→ D (d,t)

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307 **WBS:** 47027.1.1

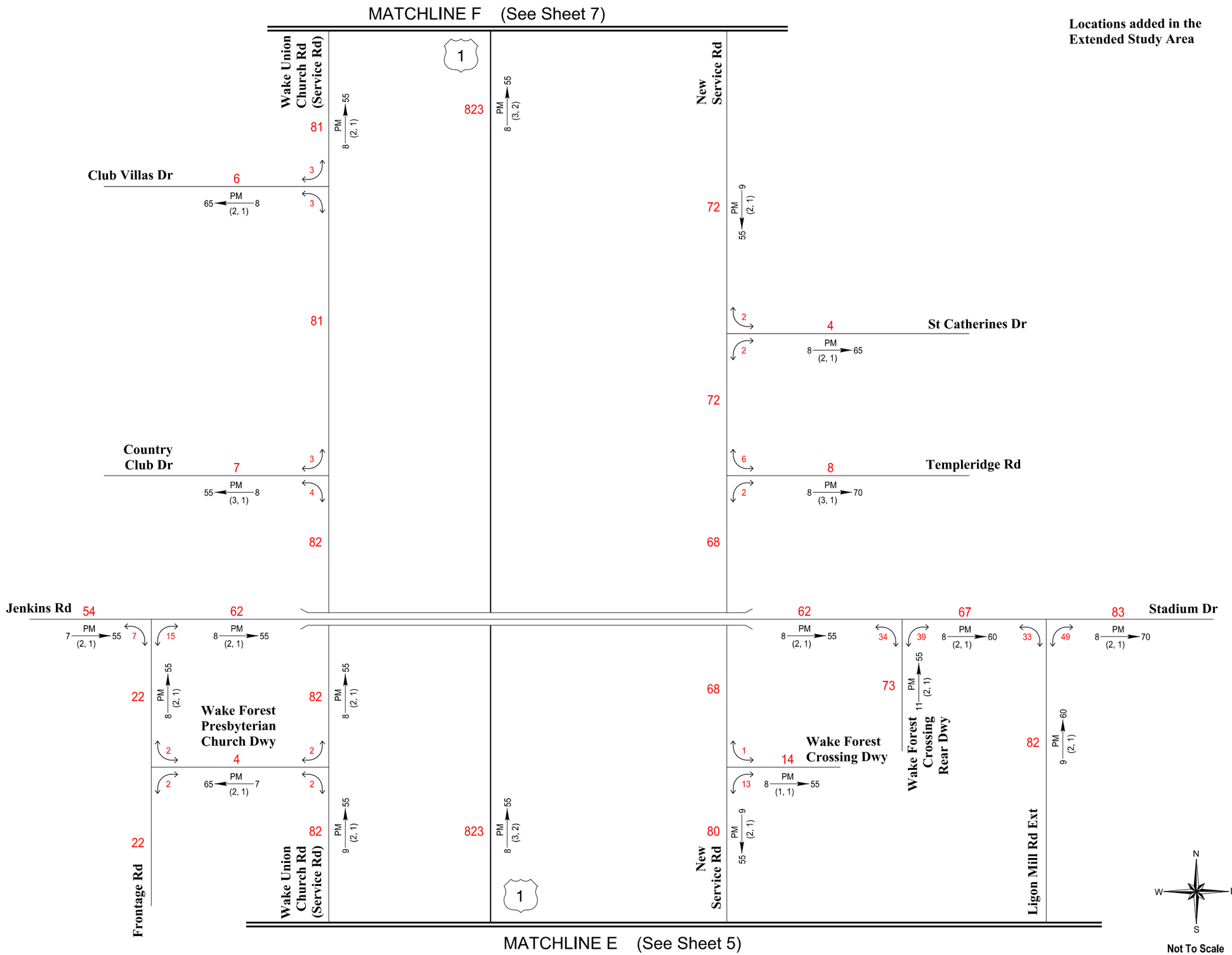
COUNTY: Wake **DIVISION:** 5

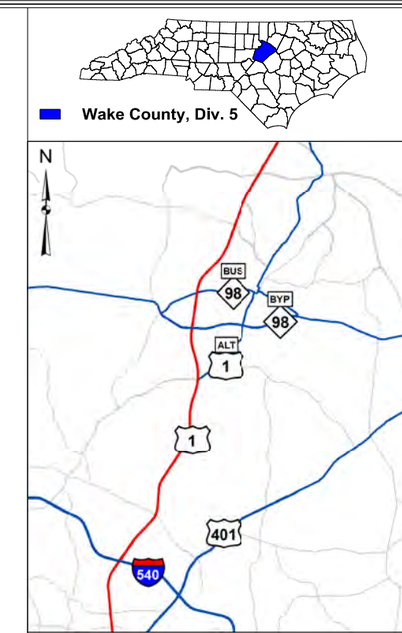
DATE: June 2017

PREPARED BY: RS&H

LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade





2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario A

FIGURE 5 SHEET 6 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

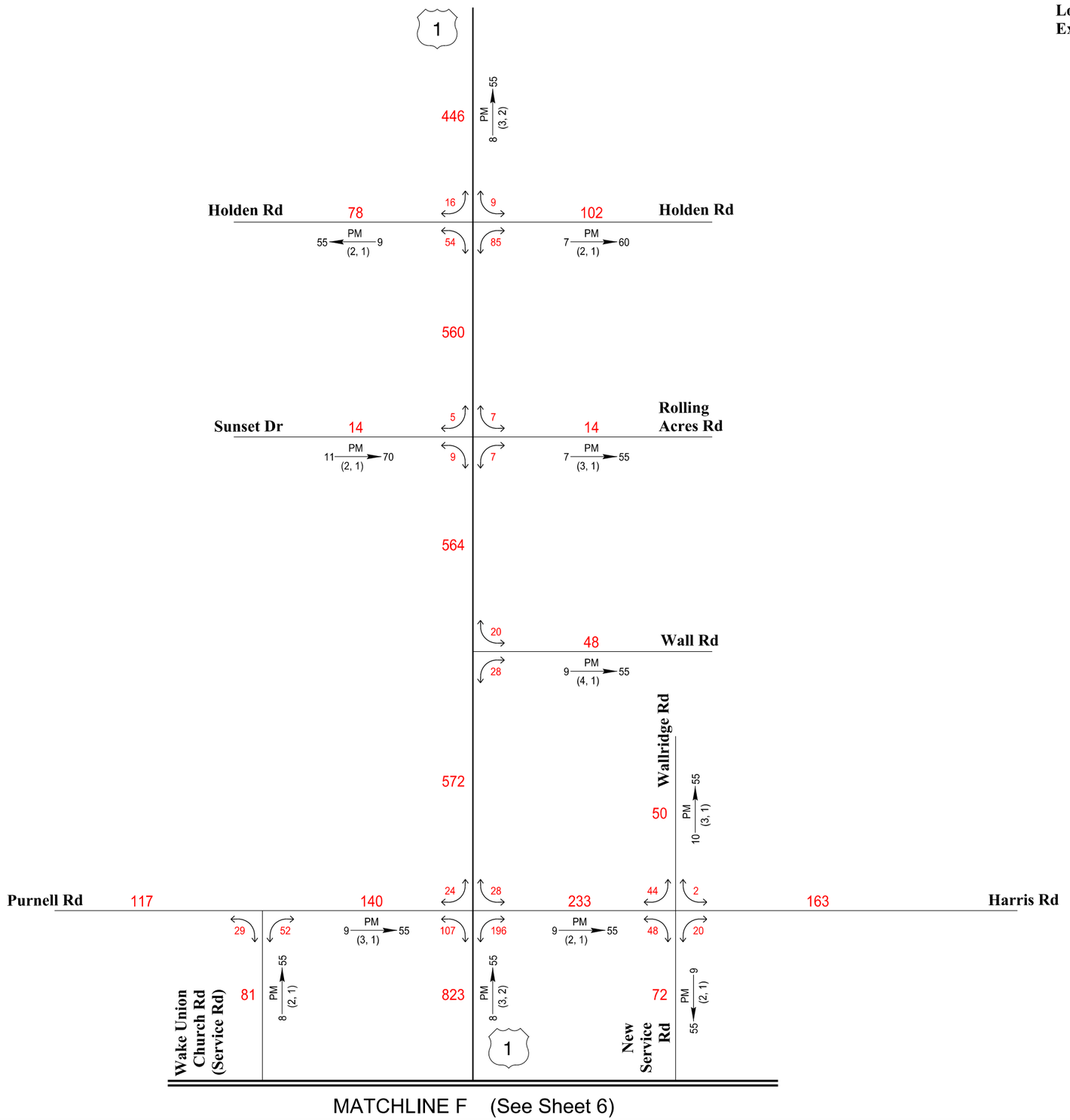
000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

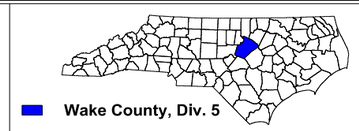
LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

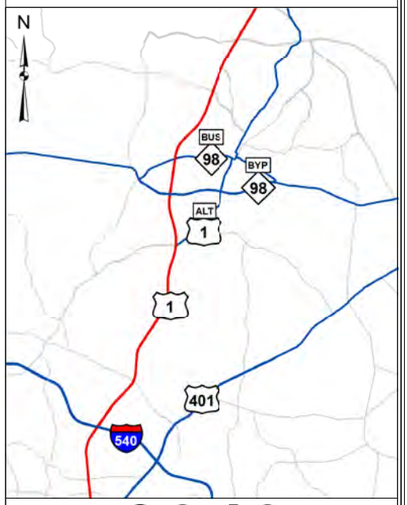
PROJECT:
US 1 (Capital Blvd) Freeway Upgrade

Locations added in the Extended Study Area



MATCHLINE F (See Sheet 6)





2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario A

FIGURE 5 SHEET 7 of 7

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

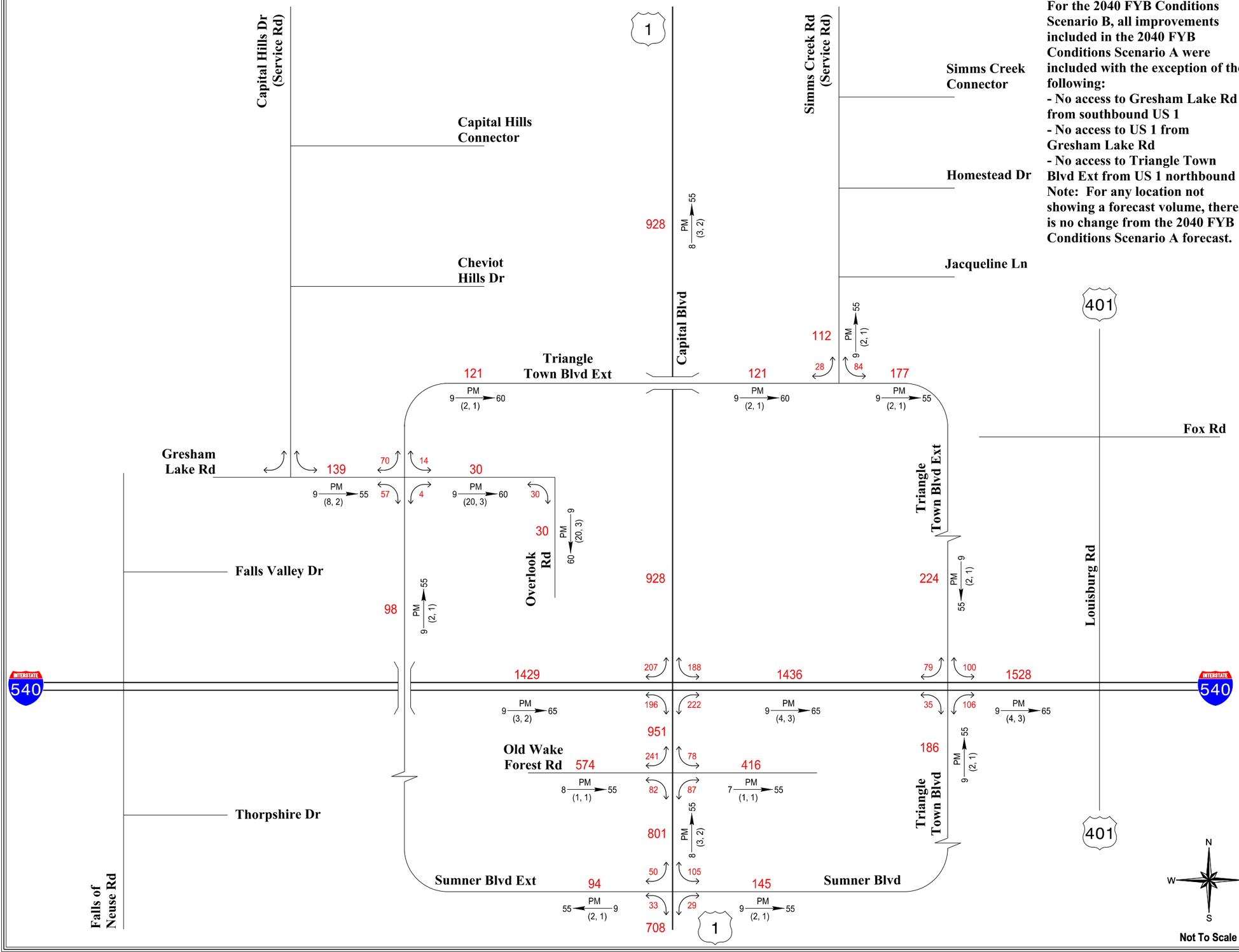
LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

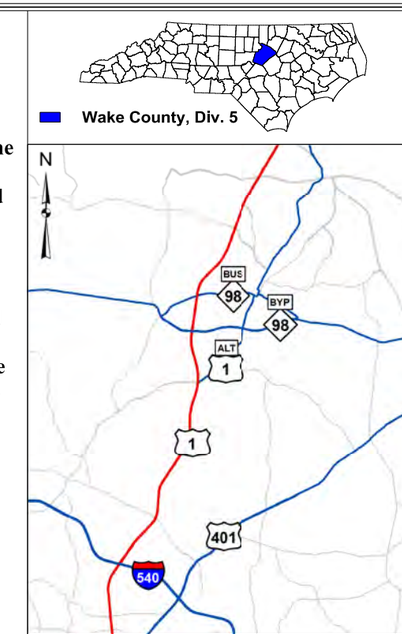
PROJECT:
US 1 (Capital Blvd) Freeway Upgrade

Not To Scale

For the 2040 FYB Conditions Scenario B, all improvements included in the 2040 FYB Conditions Scenario A were included with the exception of the following:
- No access to Gresham Lake Rd from southbound US 1
- No access to US 1 from Gresham Lake Rd
- No access to Triangle Town Blvd Ext from US 1 northbound

Note: For any location not showing a forecast volume, there is no change from the 2040 FYB Conditions Scenario A forecast.





2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario B

FIGURE 6 SHEET 1 of 1

LEGEND

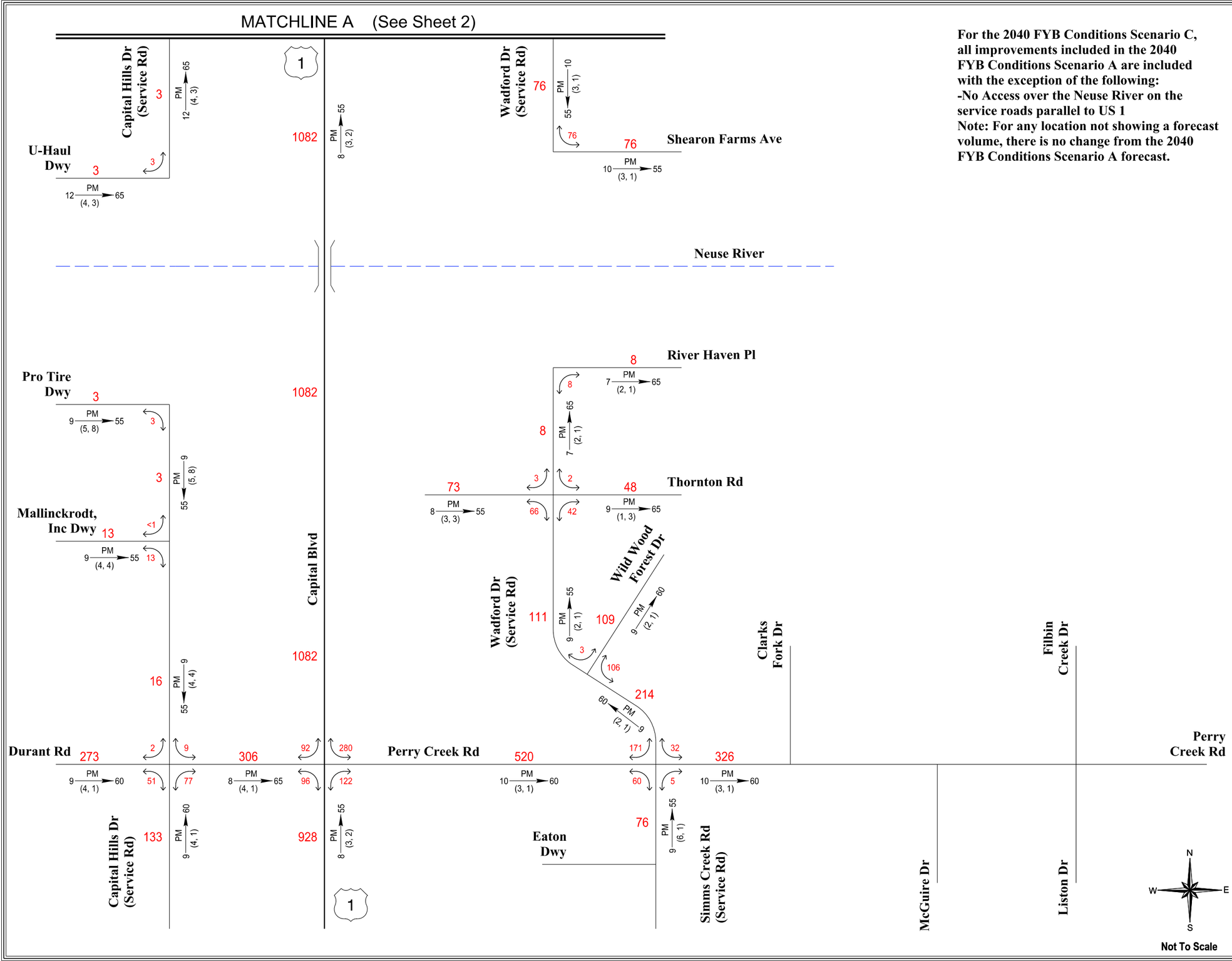
DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

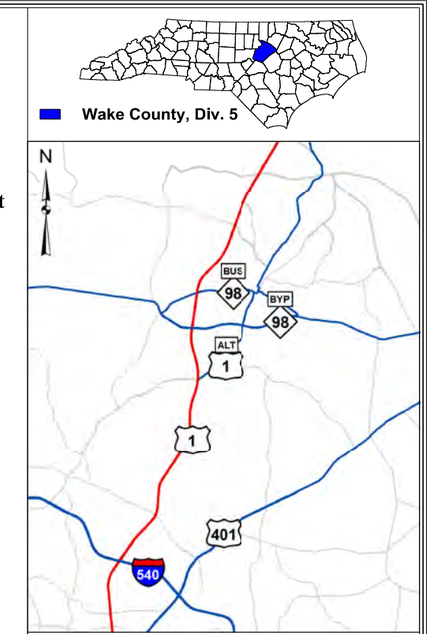
TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade



For the 2040 FYB Conditions Scenario C, all improvements included in the 2040 FYB Conditions Scenario A are included with the exception of the following:
-No Access over the Neuse River on the service roads parallel to US 1
Note: For any location not showing a forecast volume, there is no change from the 2040 FYB Conditions Scenario A forecast.



2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario C

FIGURE 7 SHEET 1 of 2

LEGEND

DHV —PM (d,t)→ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307 **WBS:** 47027.1.1

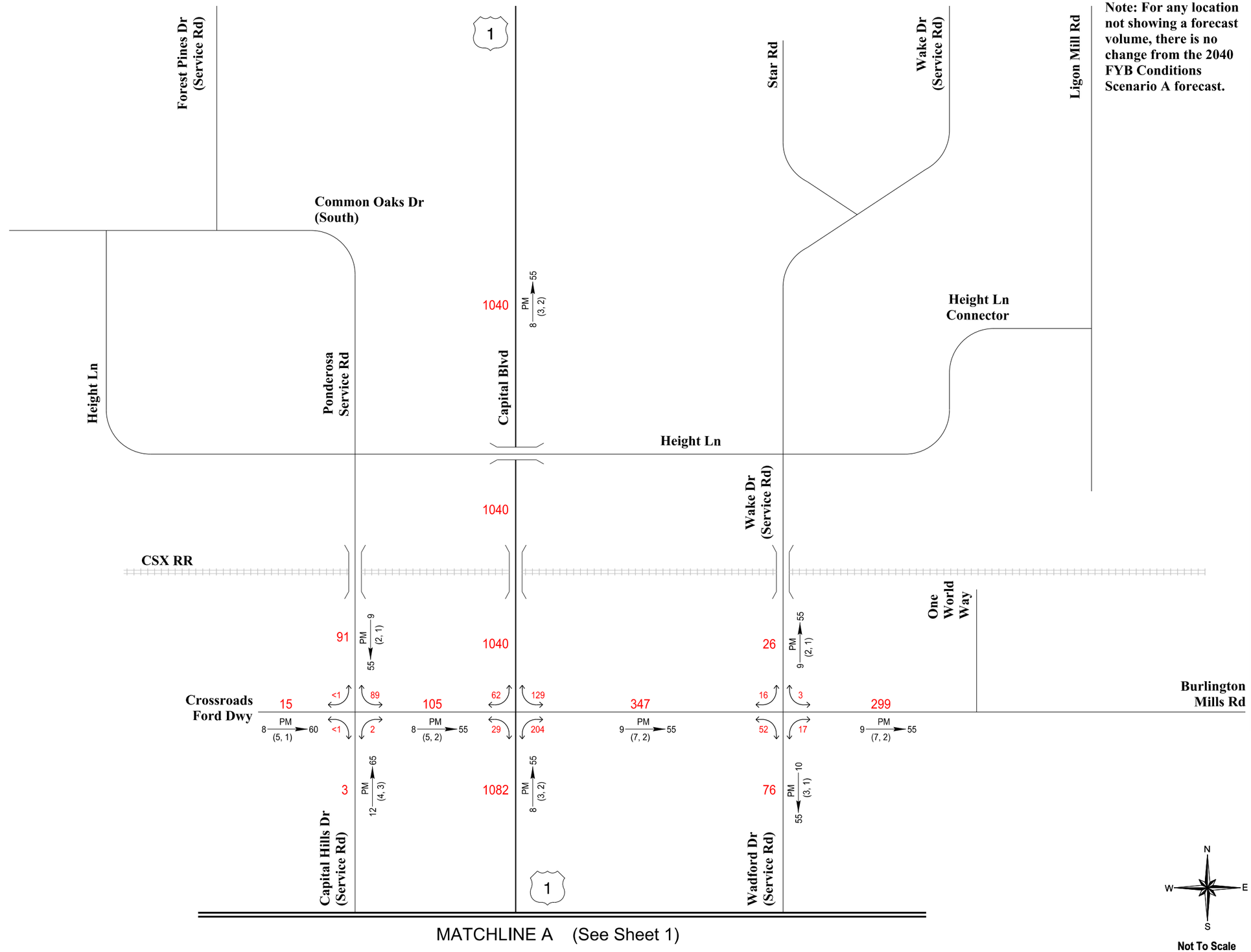
COUNTY: Wake **DIVISION:** 5

DATE: June 2017

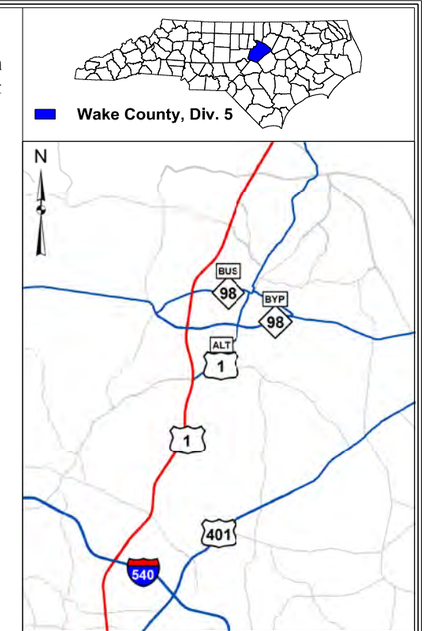
PREPARED BY: RS&H

LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade



Note: For any location not showing a forecast volume, there is no change from the 2040 FYB Conditions Scenario A forecast.



2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario C

FIGURE 7

SHEET 2 of 2

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

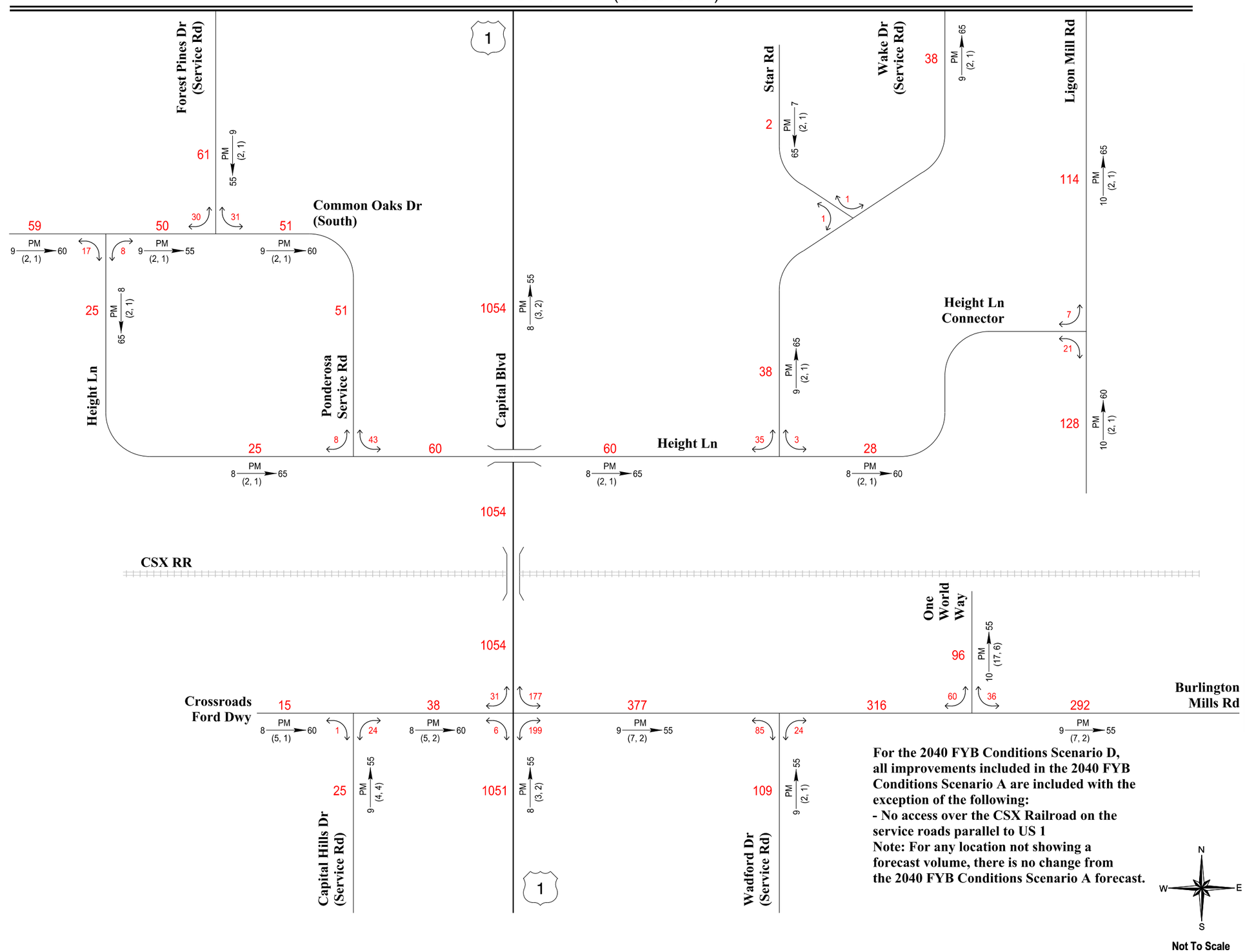
TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5

DATE: June 2017

PREPARED BY: RS&H

LOCATION:
US 1 (Capital Blvd) from I-540 to
SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade

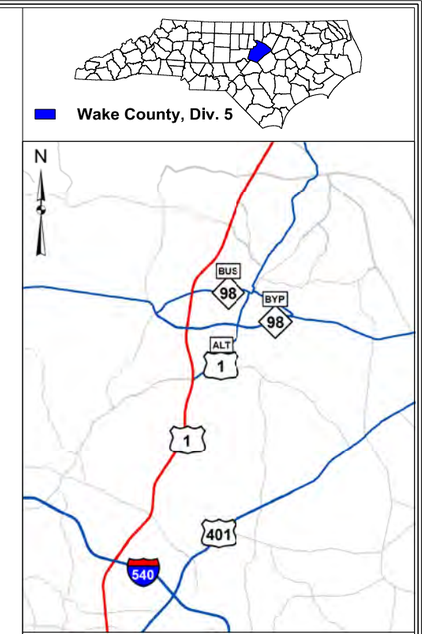


For the 2040 FYB Conditions Scenario D, all improvements included in the 2040 FYB Conditions Scenario A are included with the exception of the following:
- No access over the CSX Railroad on the service roads parallel to US 1

Note: For any location not showing a forecast volume, there is no change from the 2040 FYB Conditions Scenario A forecast.

N W E S

Not To Scale



2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario D

FIGURE 8 SHEET 1 of 2

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

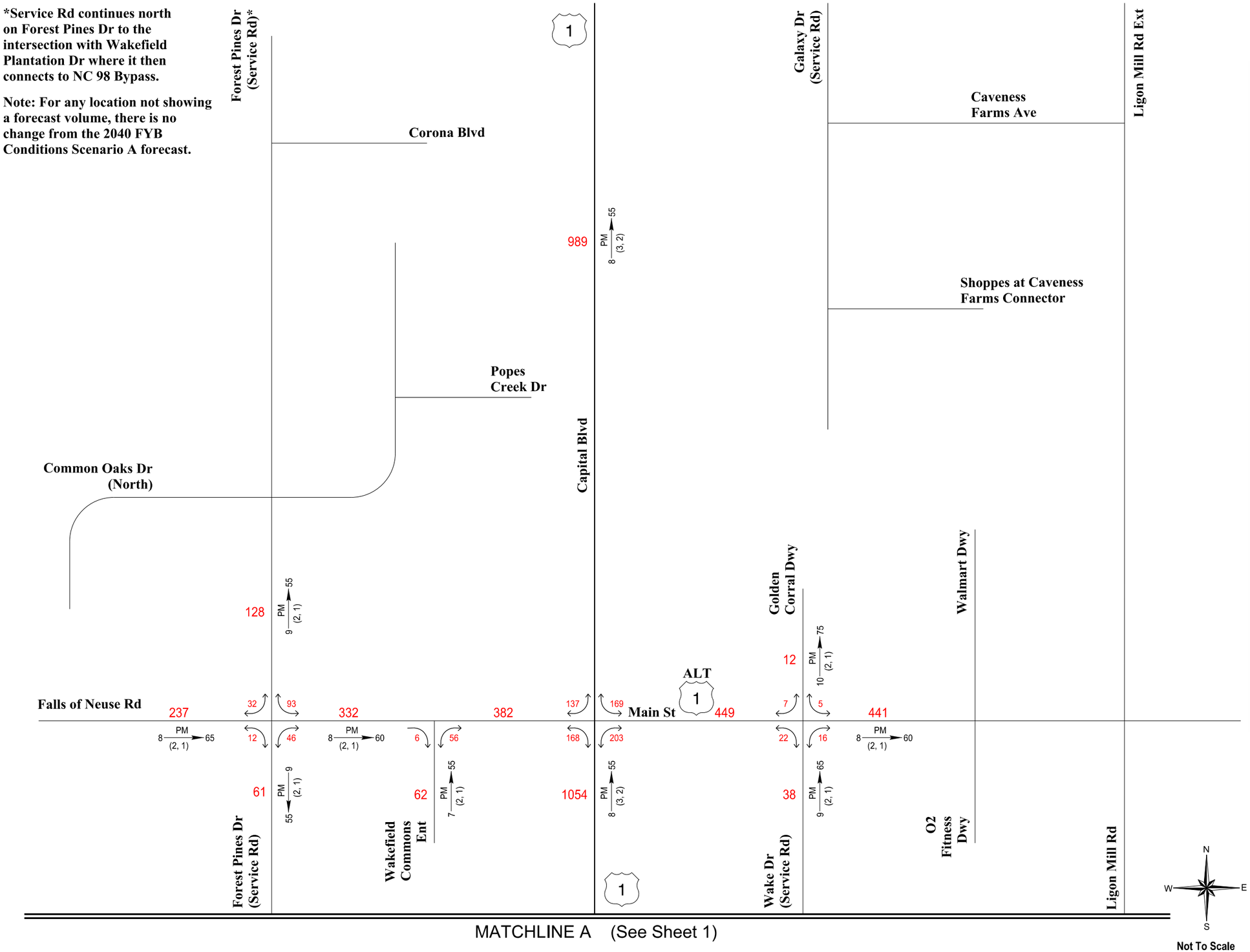
TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

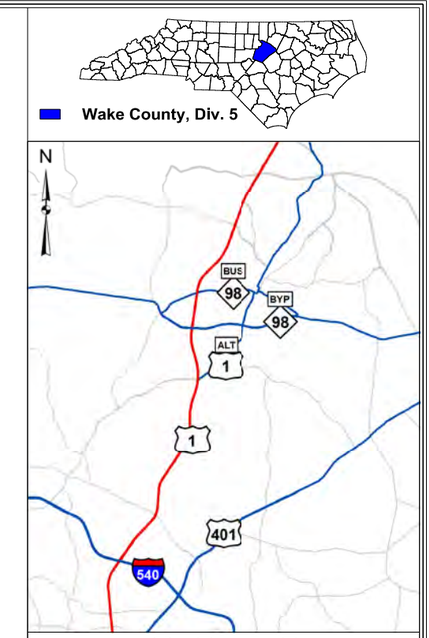
LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade

*Service Rd continues north on Forest Pines Dr to the intersection with Wakefield Plantation Dr where it then connects to NC 98 Bypass.

Note: For any location not showing a forecast volume, there is no change from the 2040 FYB Conditions Scenario A forecast.





2040

ANNUAL AVERAGE
DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario D

FIGURE 8 SHEET 2 of 2

LEGEND

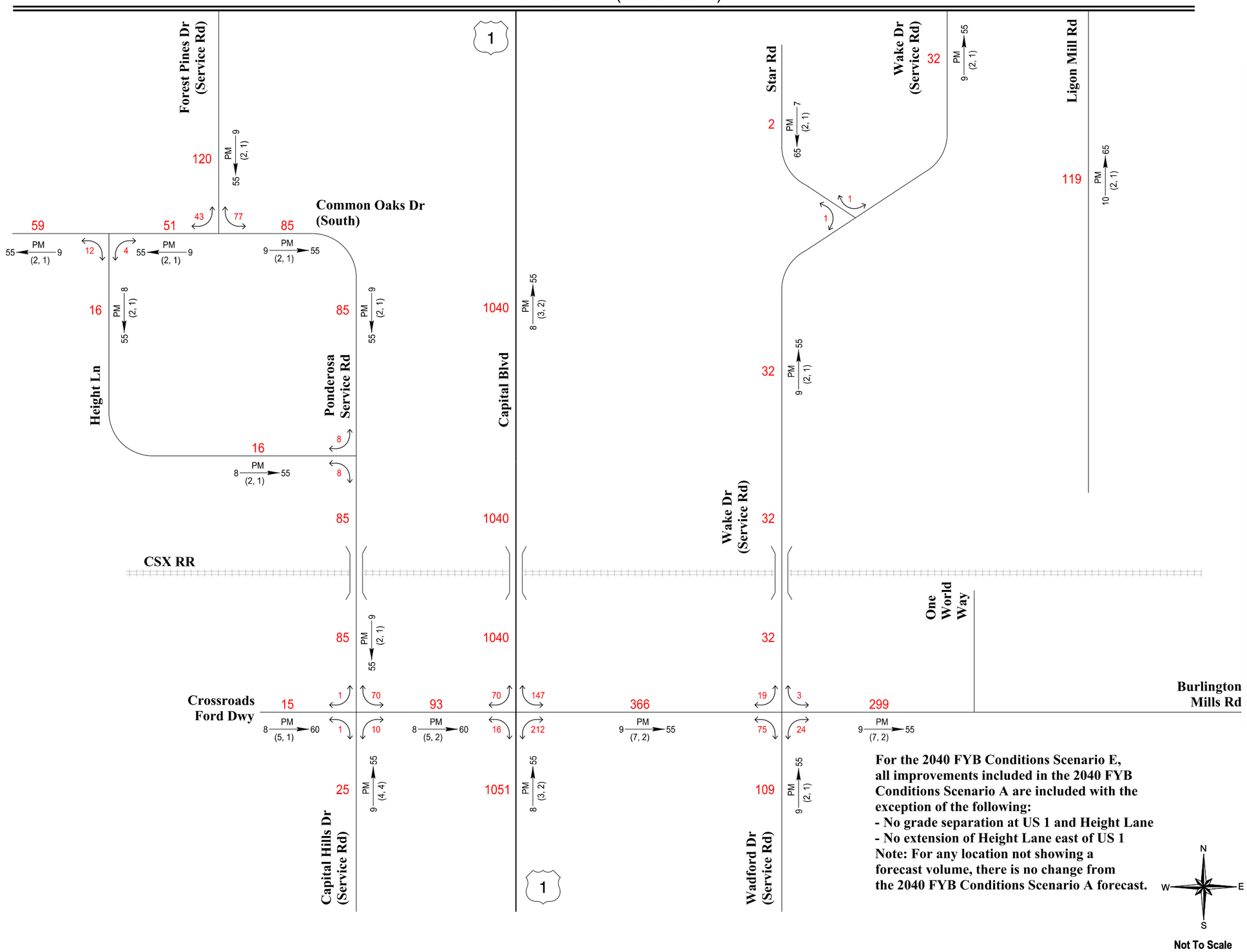
DHV $\xrightarrow[(d,t)]{PM}$ D

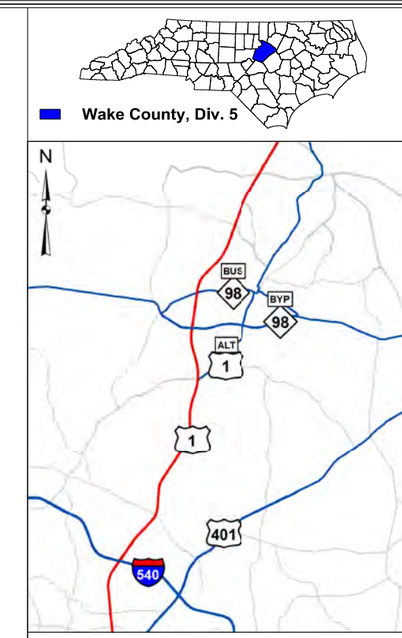
000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade





2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario E

FIGURE 9 SHEET 1 of 2

LEGEND

DHV PM (d,t) → D

000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

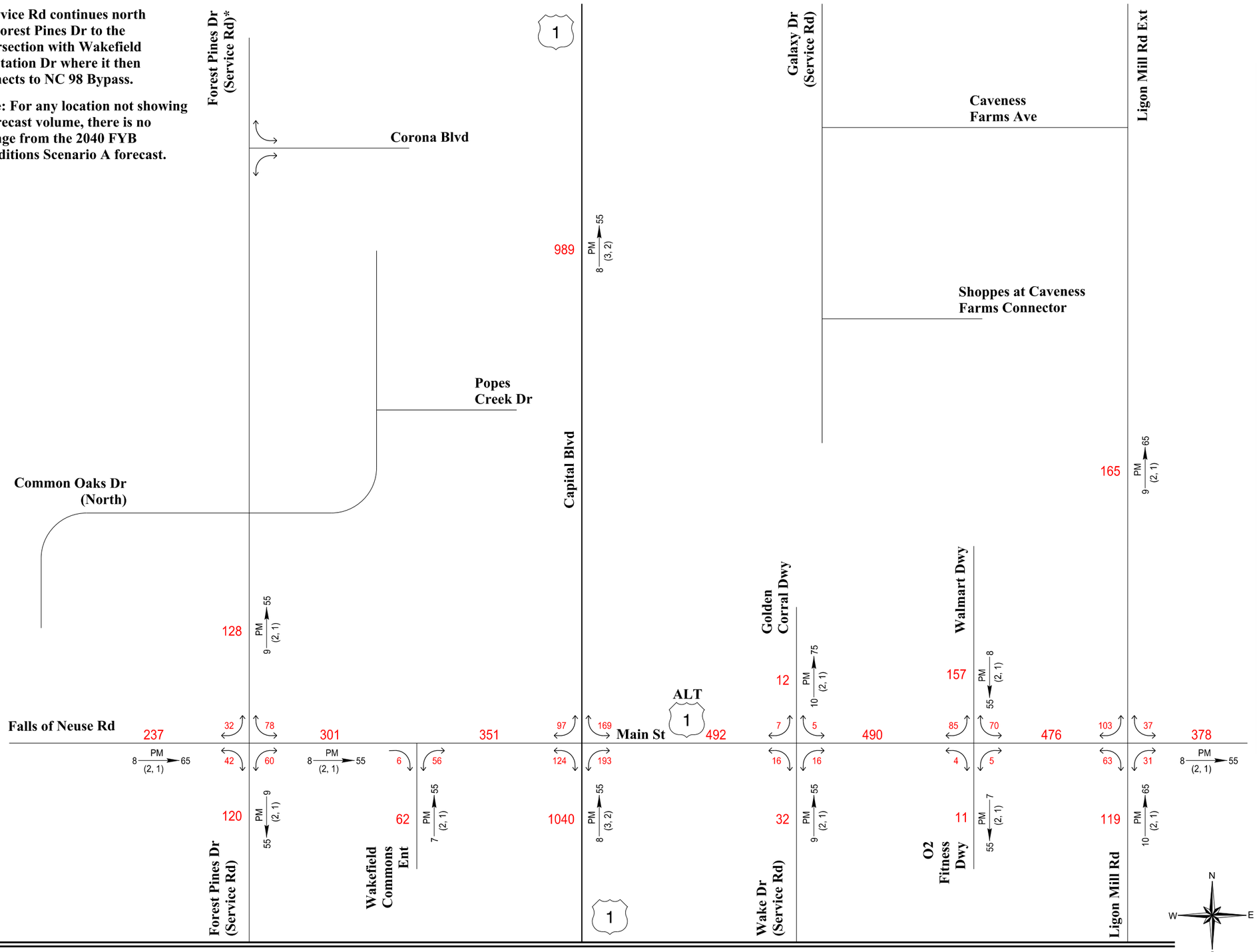
TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

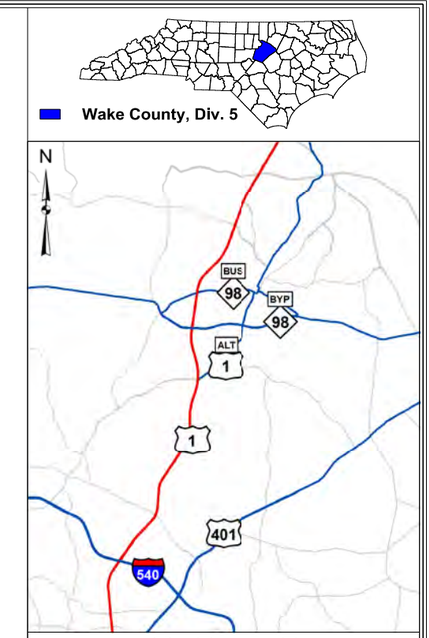
PROJECT:
US 1 (Capital Blvd) Freeway Upgrade

*Service Rd continues north on Forest Pines Dr to the intersection with Wakefield Plantation Dr where it then connects to NC 98 Bypass.

Note: For any location not showing a forecast volume, there is no change from the 2040 FYB Conditions Scenario A forecast.



MATCHLINE A (See Sheet 1)



2040

ANNUAL AVERAGE DAILY TRAFFIC FORECASTS

Future Year Build Conditions Scenario E

FIGURE 9 SHEET 2 of 2

LEGEND

DHV $\xrightarrow[(d,t)]{PM}$ D

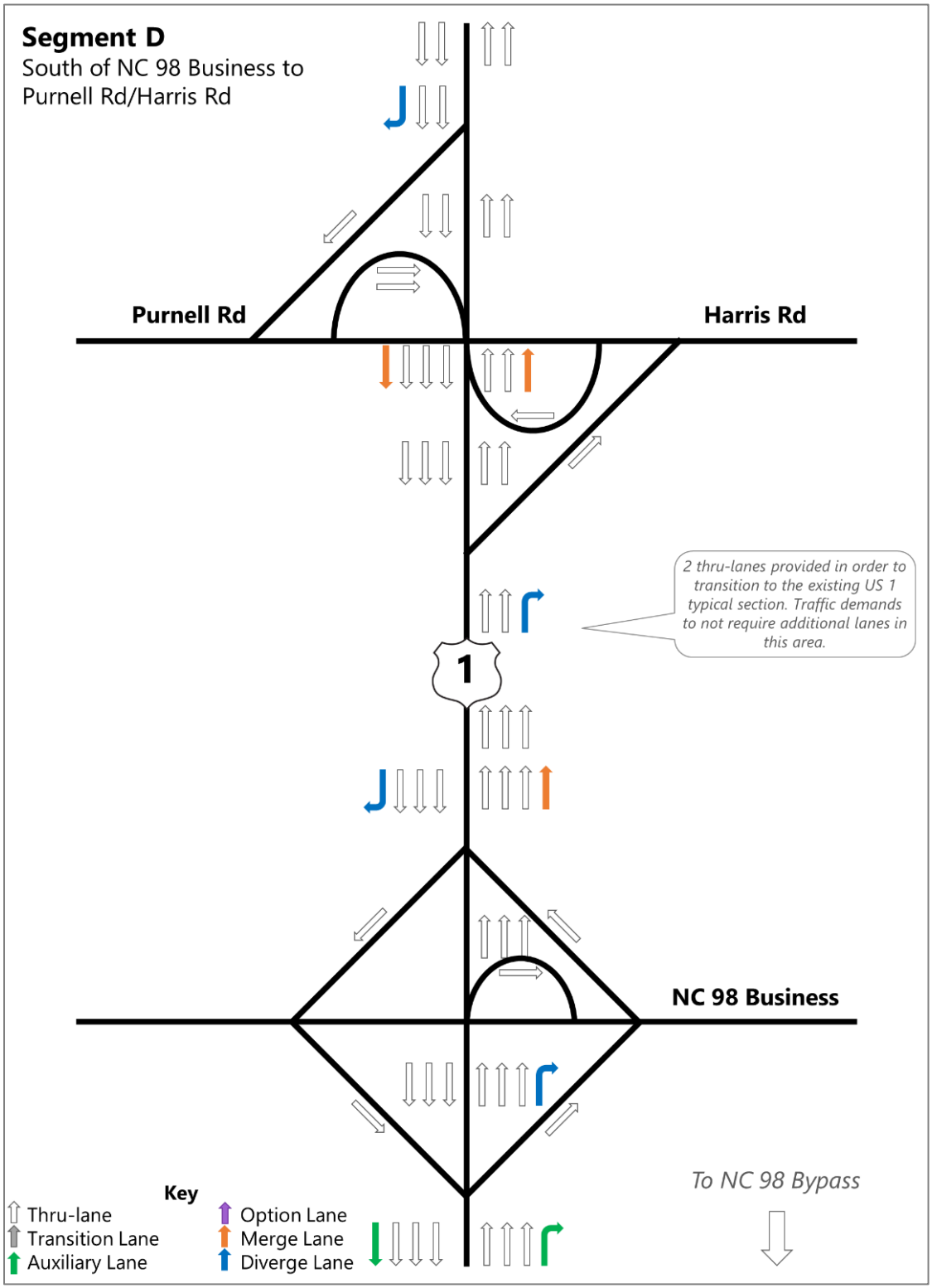
000	No. of Vehicles Per Day in 100's
DHV	Design Hourly Volume (%)
D	Peak Hour Directional Split (%)
PM	PM Peak Period
→	Direction of D
(d,t)	Duals, TT-ST's (%)

TIP: U-5307	**WBS:** 47027.1.1
COUNTY: Wake	**DIVISION:** 5
DATE: June 2017	
PREPARED BY: RS&H	

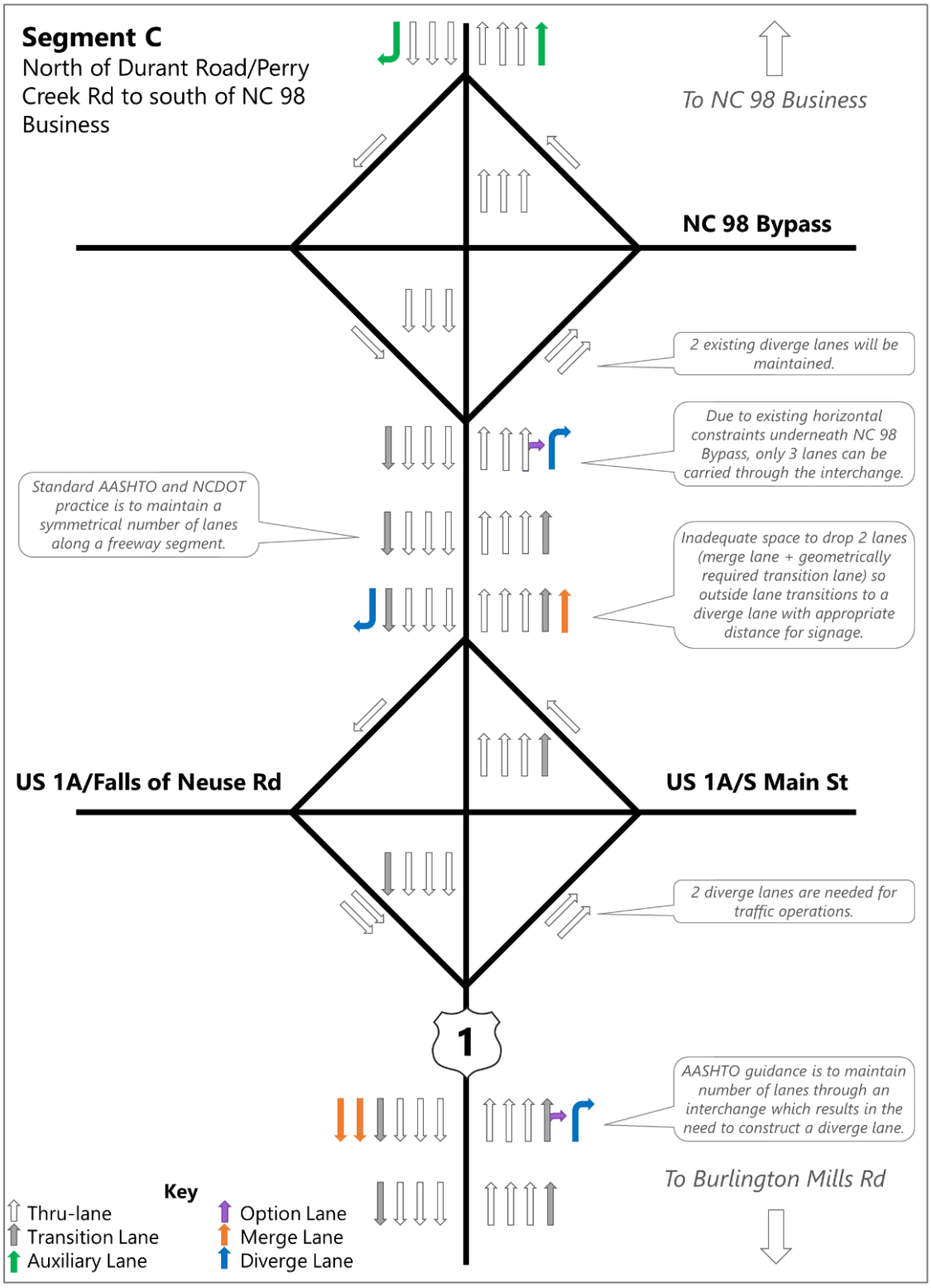
LOCATION:
US 1 (Capital Blvd) from I-540 to SR 1909 (Purnell Rd)/SR 1931 (Harris Rd)

PROJECT:
US 1 (Capital Blvd) Freeway Upgrade

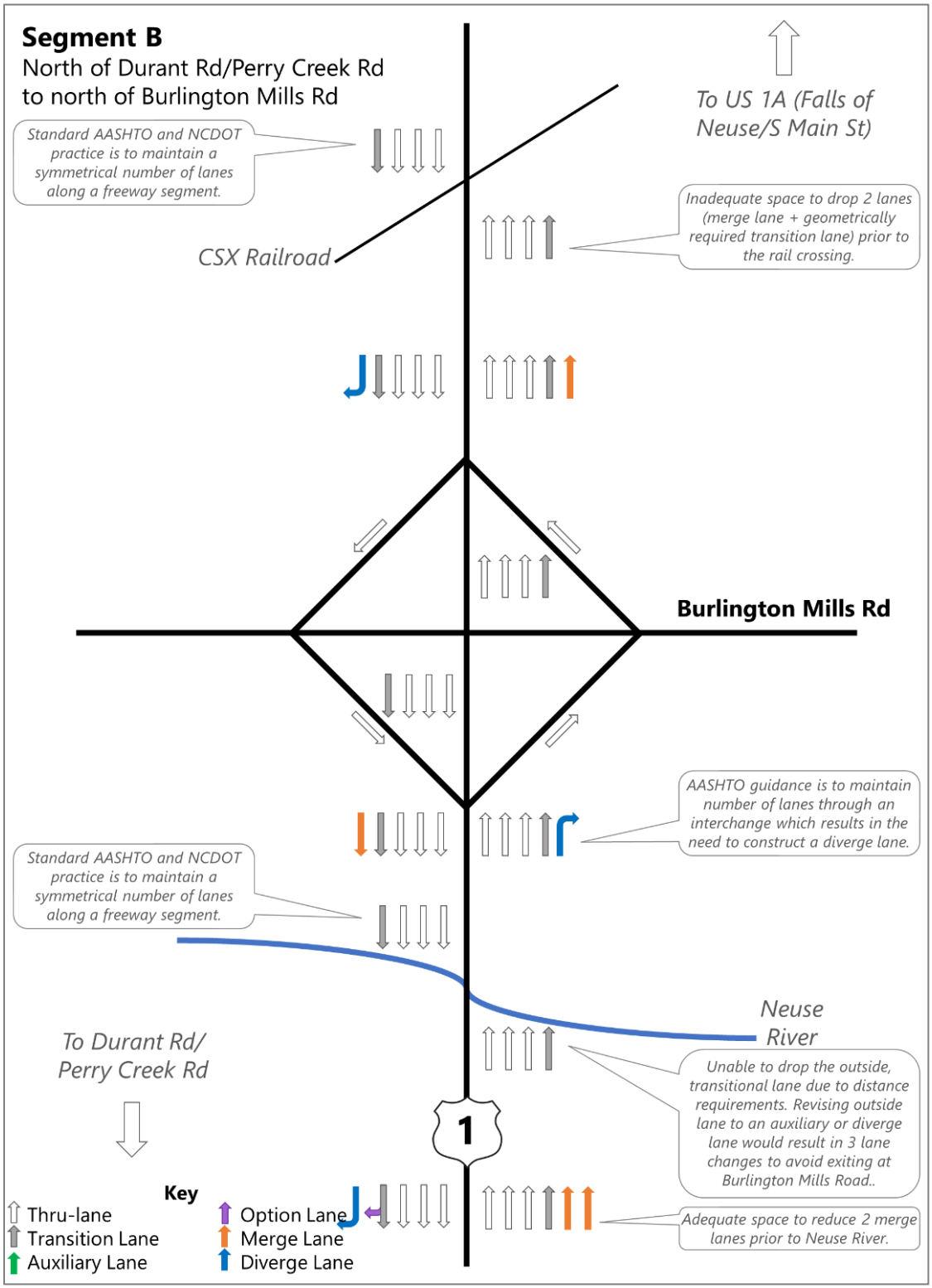
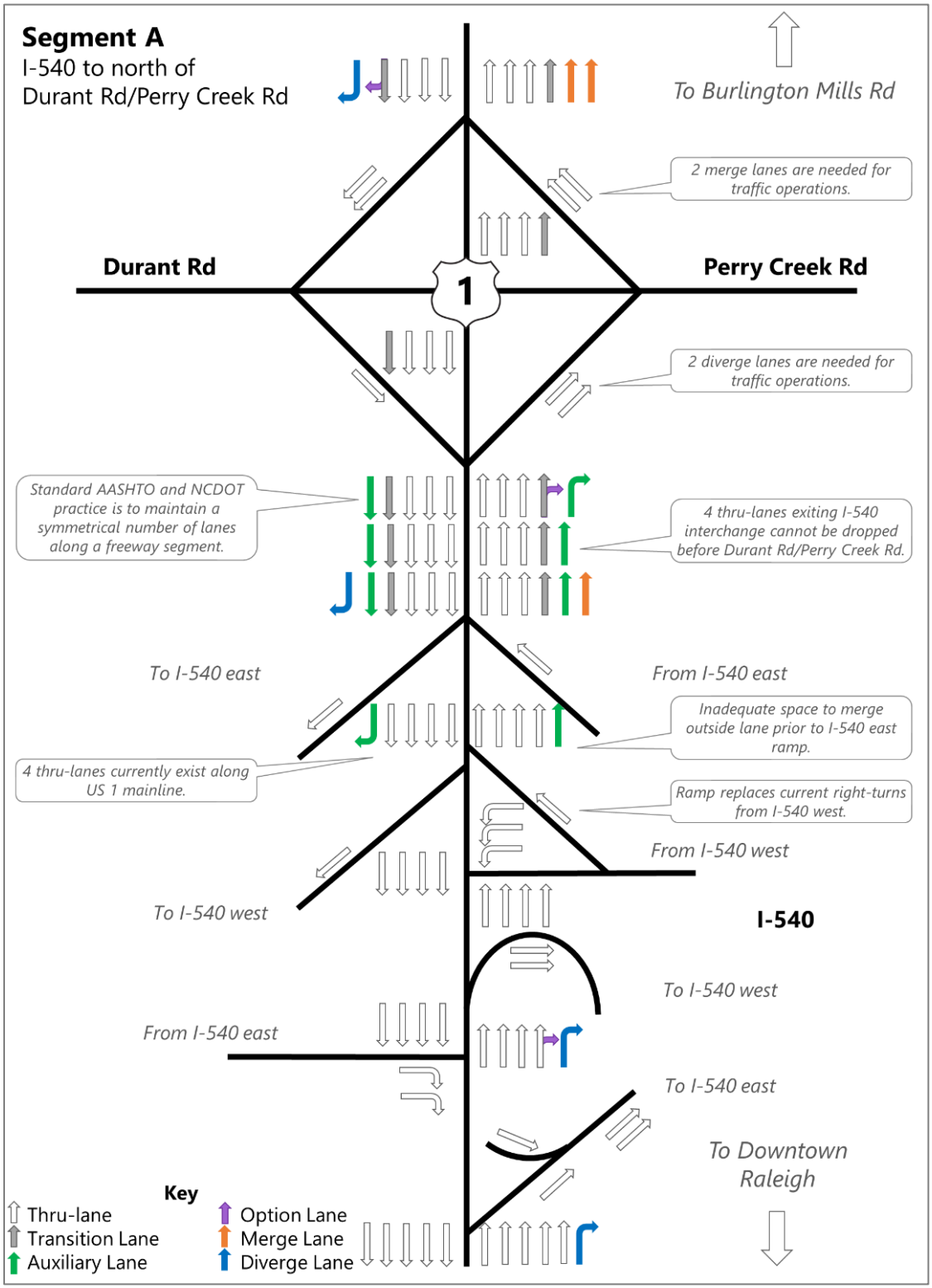
Appendix B, Figure 1. Segment D – US 1 Mainline Proposed Lanes Graphic (from *U-5307 Typical Section Documentation Memo*, February 2023)



Appendix B, Figure 2. Segment C – US 1 Mainline Proposed Lanes Graphic (from *U-5307 Typical Section Documentation Memo*, February 2023)



Appendix B, Figure 3. Segment B – US 1 Mainline Proposed Lanes Graphic (from *U-5307 Typical Section Documentation Memo*, February 2023)



Appendix B, Figure 4. Segment A – US 1 Mainline Proposed Lanes Graphic (from *U-5307 Typical Section Documentation Memo*, February 2023)