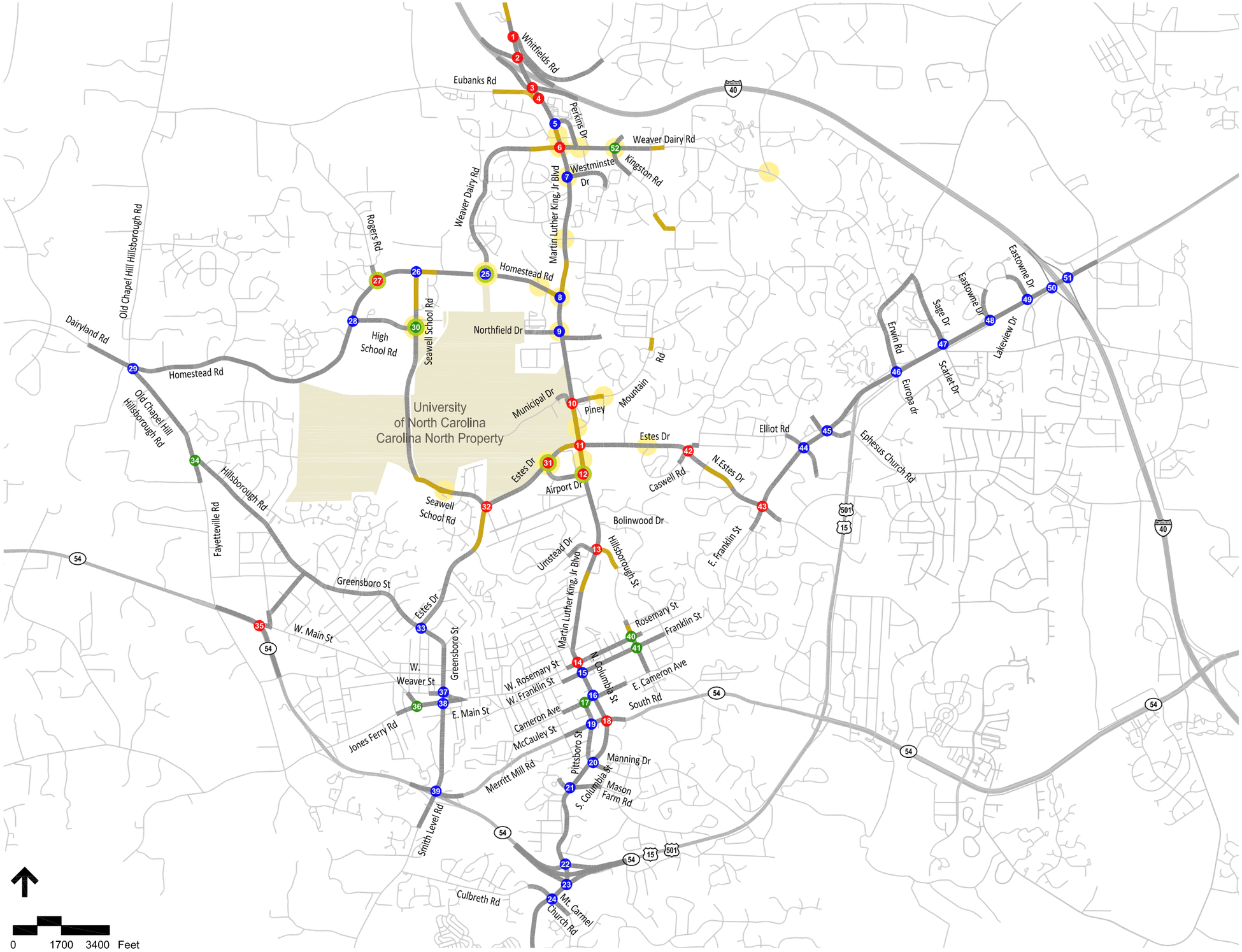


Legend

- 2009, 2015, 2030
- 2009, 2030
- 2009 only
- Unsignalized Intersection
- Pedestrian and Bicycle Count Locations
- Roadway Segment Counts

Note:

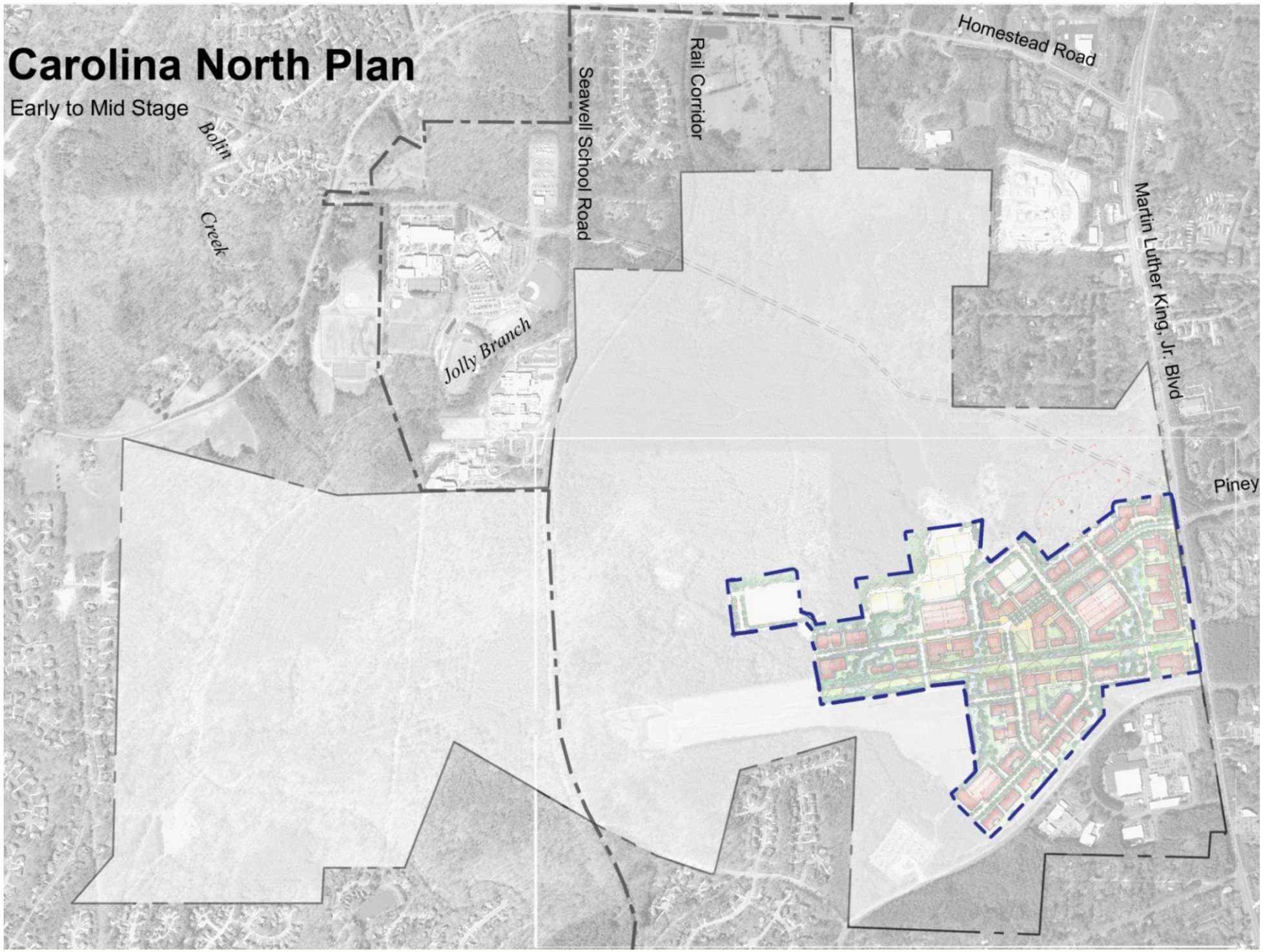
2015 study area intersections are also part of the 2030 study.

CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 1
Transportation Impact Analysis
Study Areas (2009, 2015, and 2030)

Chapel Hill, North Carolina

Vanasse Hangen Brustlin, Inc.



NTS

Source: University of North Carolina at Chapel Hill

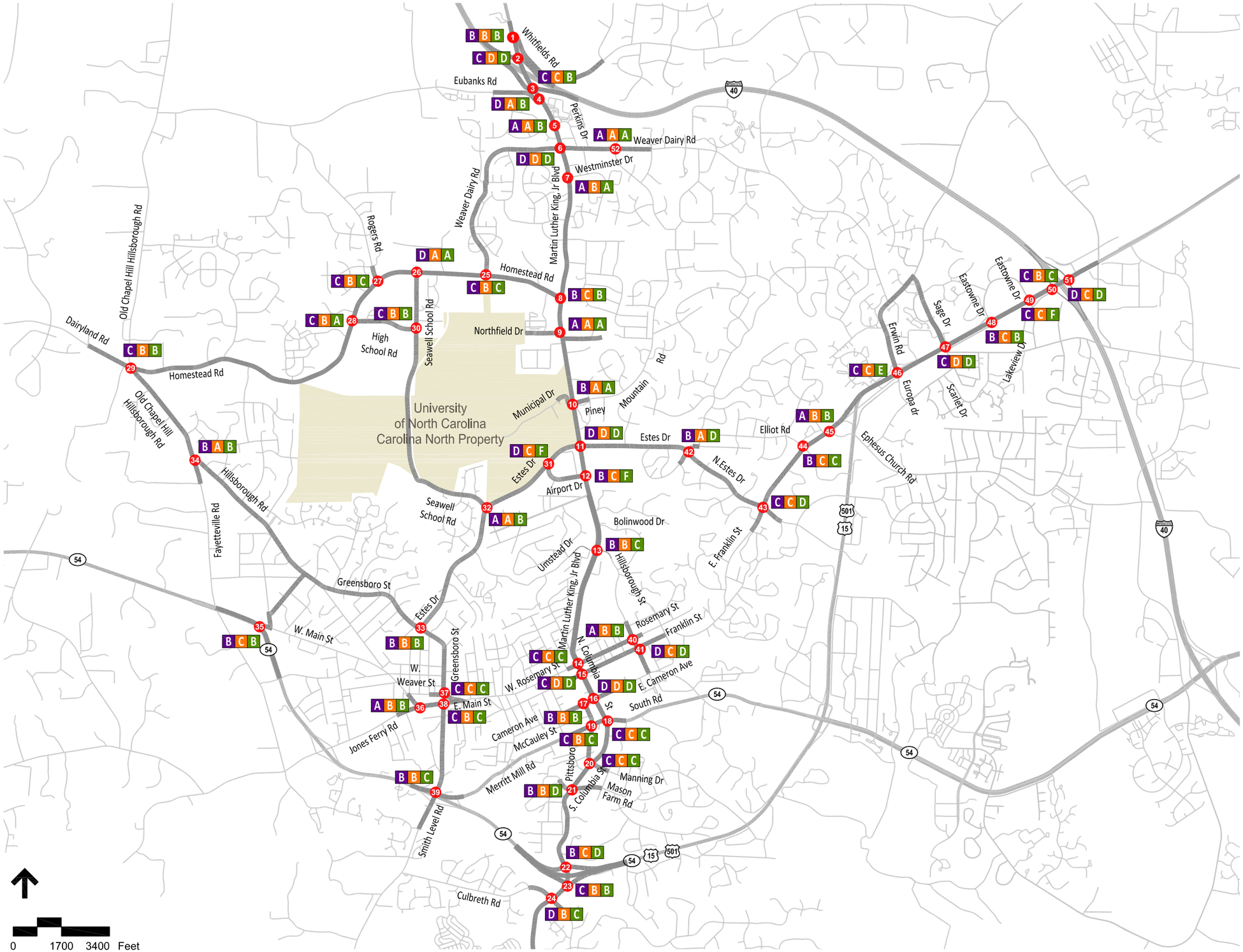
CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 3

Carolina North TIA Development Area

Chapel Hill, North Carolina

Vanasse Hangen Brustlin, Inc.



Legend

- # Study Area Intersections
- A B C Overall Peak Hour LOS
  - PM
  - Midday
  - AM

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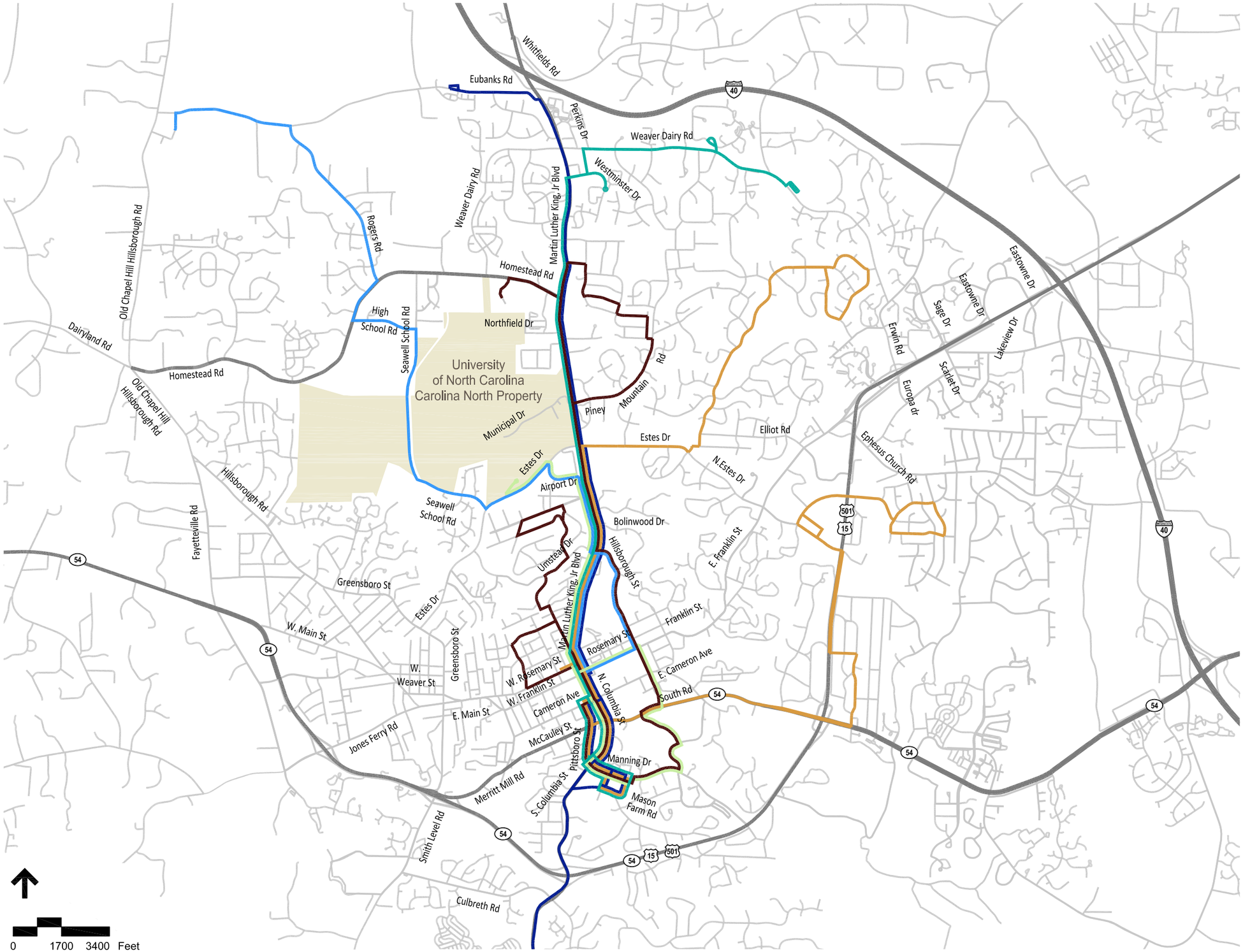
Chapel Hill, North Carolina

Figure 4

Existing Intersection Level of Service at 52 Intersections

Chapel Hill, North Carolina

VHB Vanasse Hangen Brustlin, Inc.

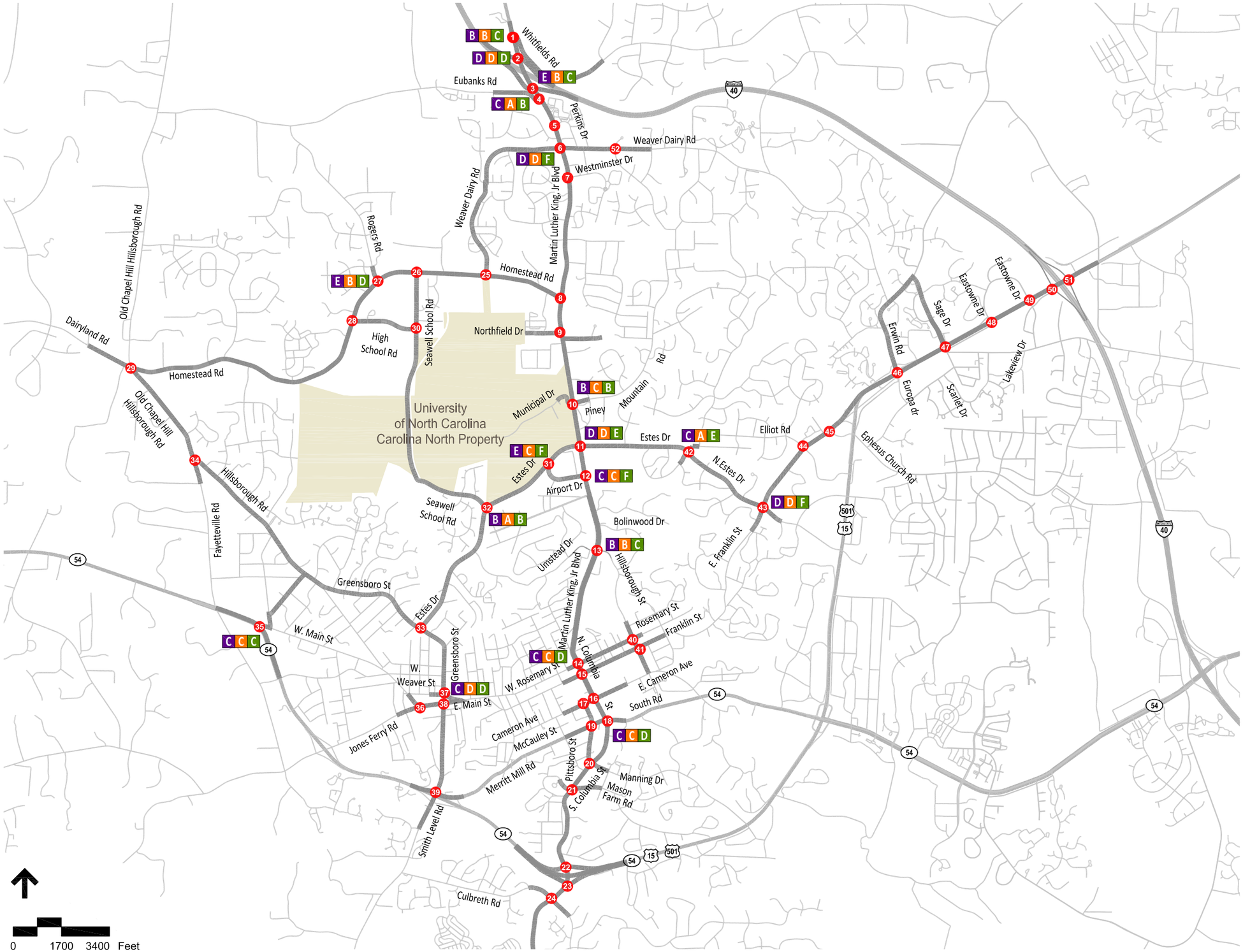


CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 5
Chapel Hill Transit Routes
Serving Carolina North

Chapel Hill, North Carolina

Vanasse Hangen Brustlin, Inc.

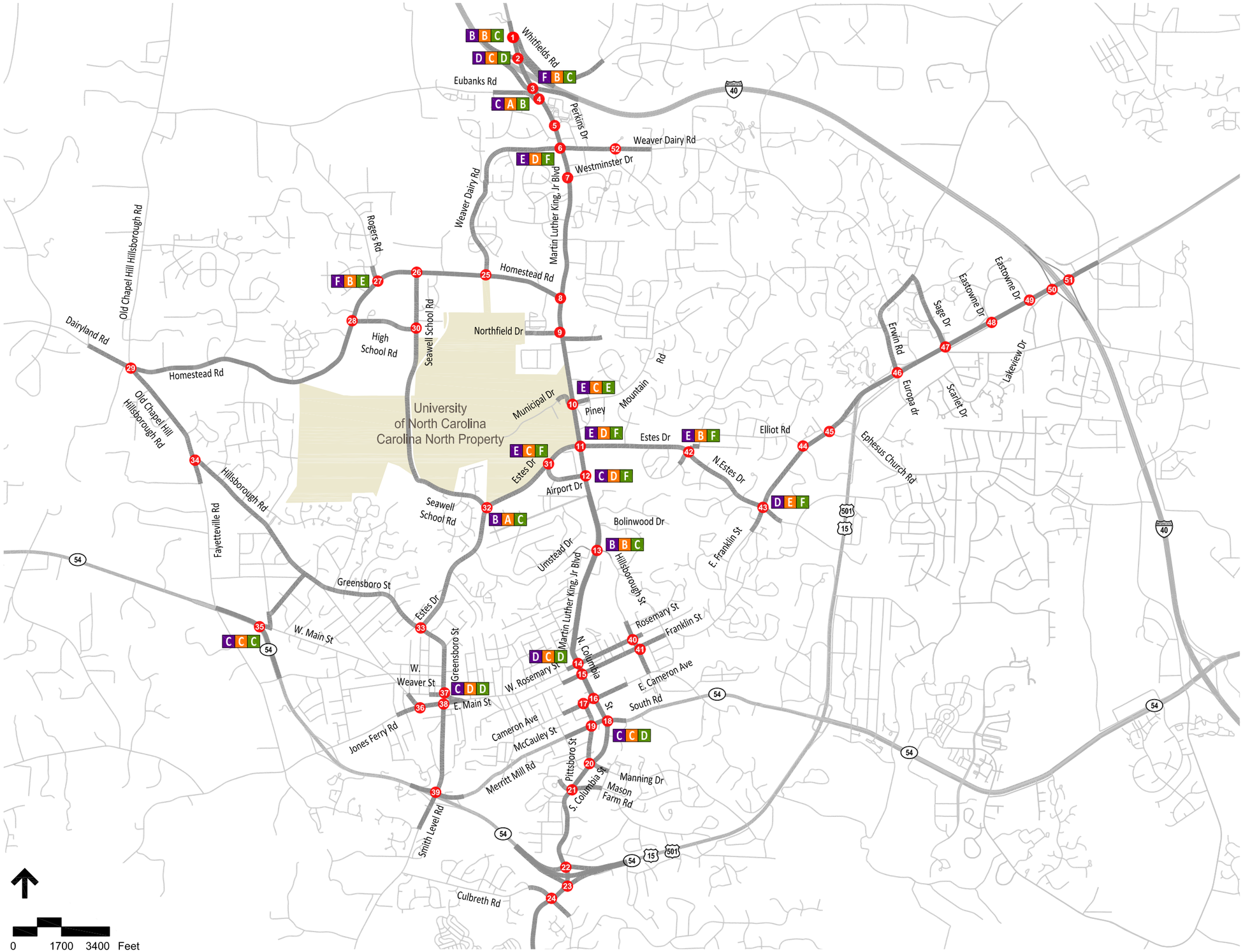


CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 8
2015 No Build Intersection Level of Service

Chapel Hill, North Carolina

VHB Vanasse Hangen Brustlin, Inc.

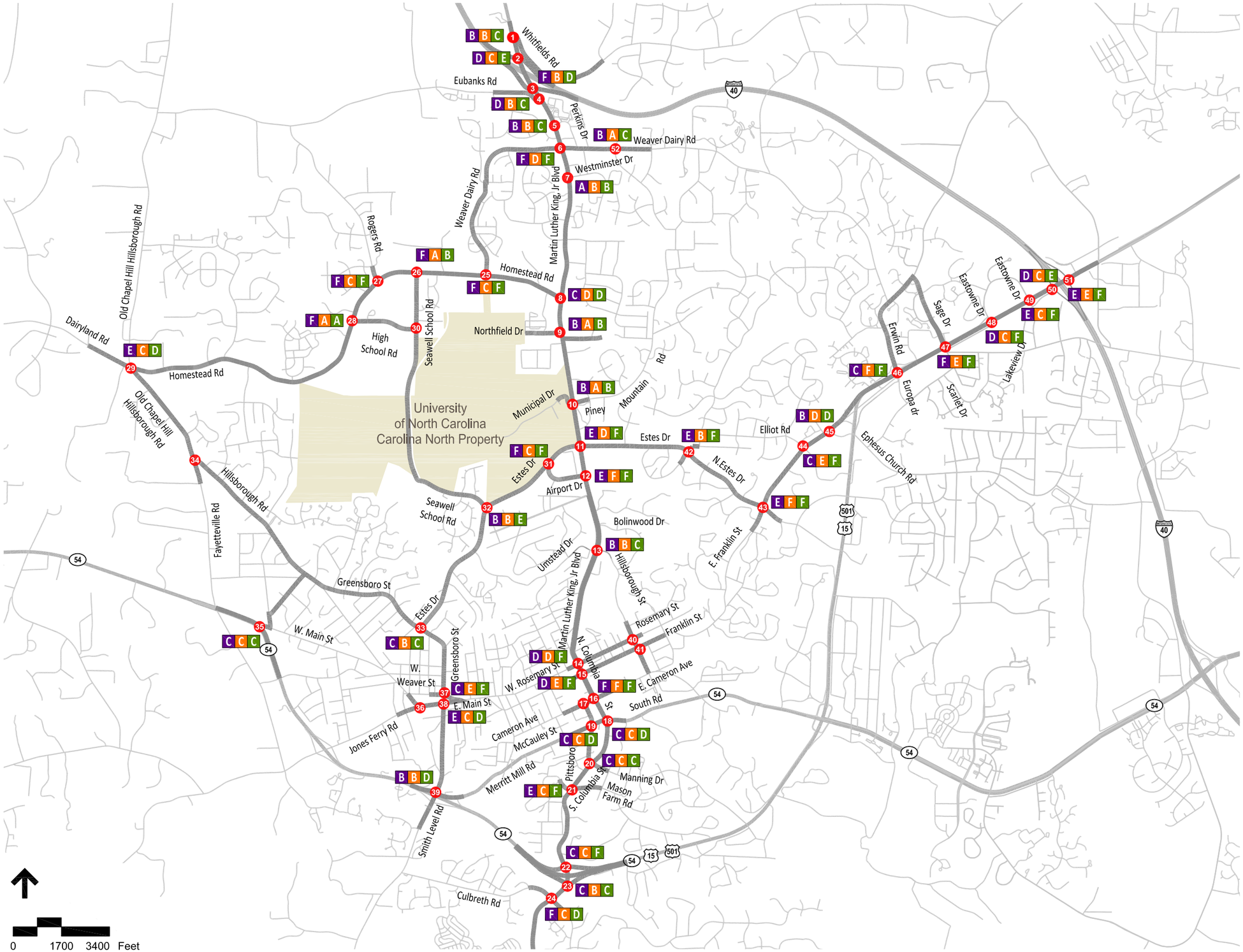


CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 9
2015 Build Intersection Level of Service

Chapel Hill, North Carolina

VHB Vanasse Hangen Brustlin, Inc.



Legend

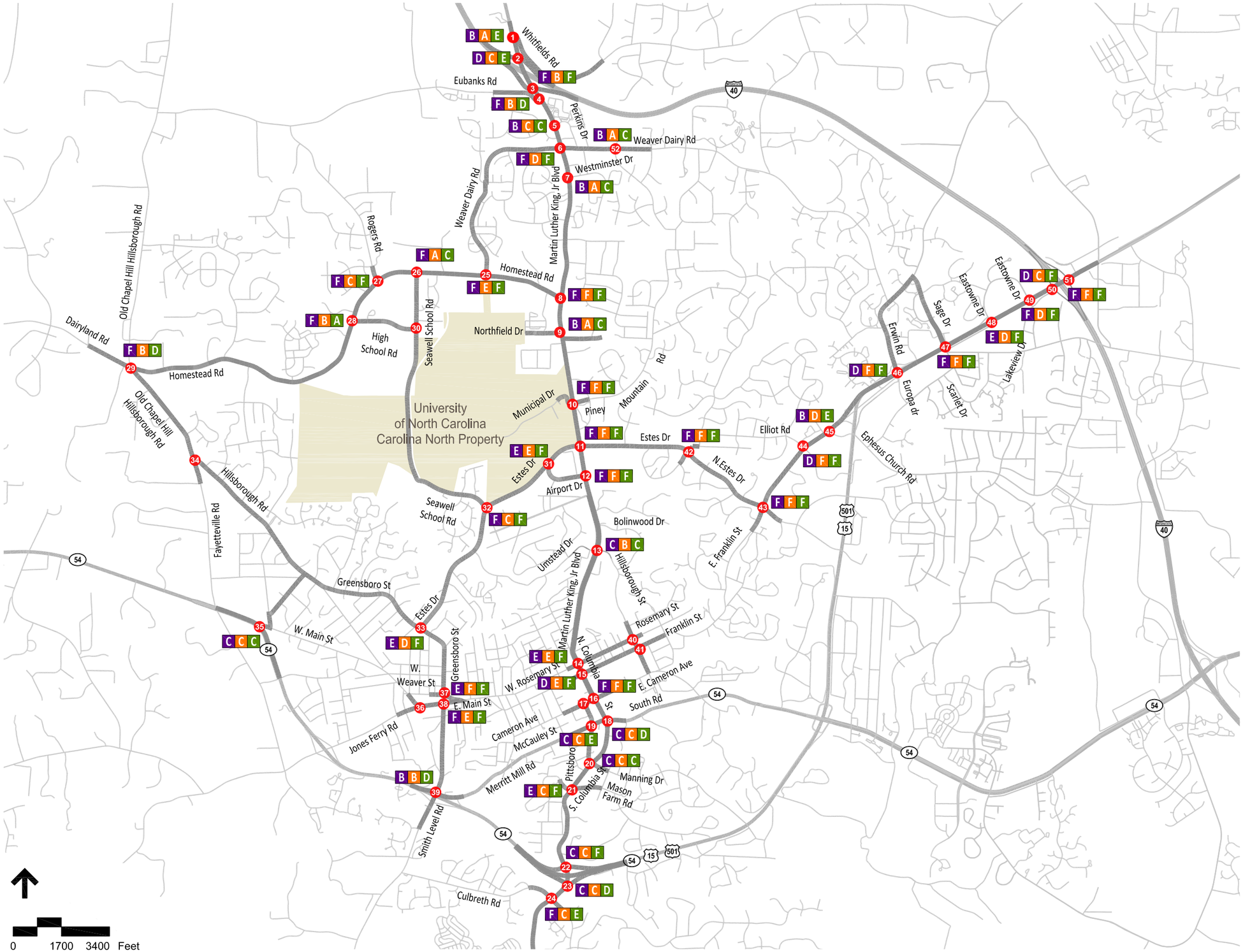
- # Study Area Intersections
- A B C Overall Peak Hour LOS
  - PM
  - Midday
  - AM

CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 10
2030 No Build Intersection Level of Service

Chapel Hill, North Carolina

Vanasse Hangen Brustlin, Inc.



Legend

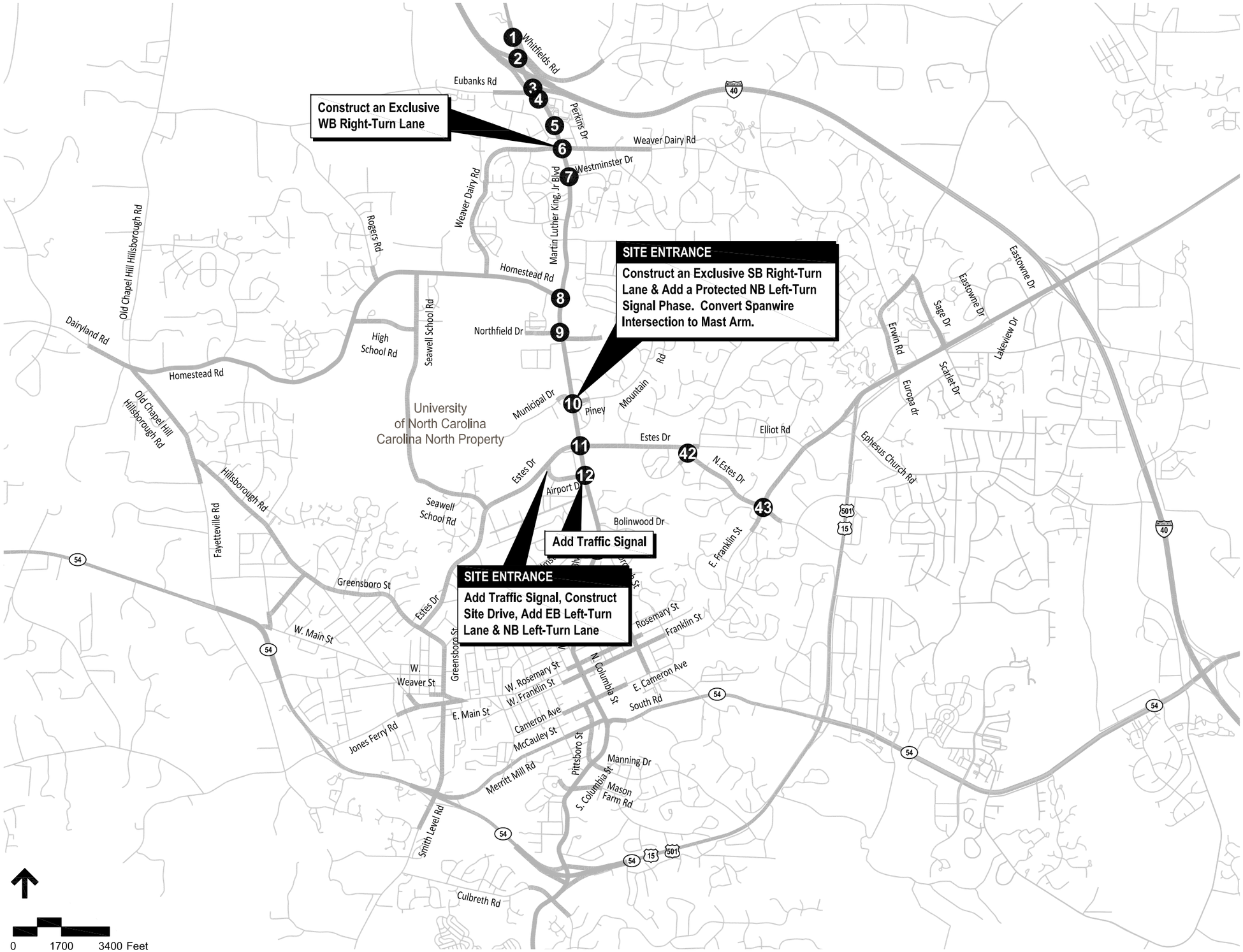
- # Study Area Intersections
- A B C Overall Peak Hour LOS
  - PM
  - Midday
  - AM

CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 11
2030 Build Intersection Level of Service

Chapel Hill, North Carolina

Vanasse Hangen Brustlin, Inc.

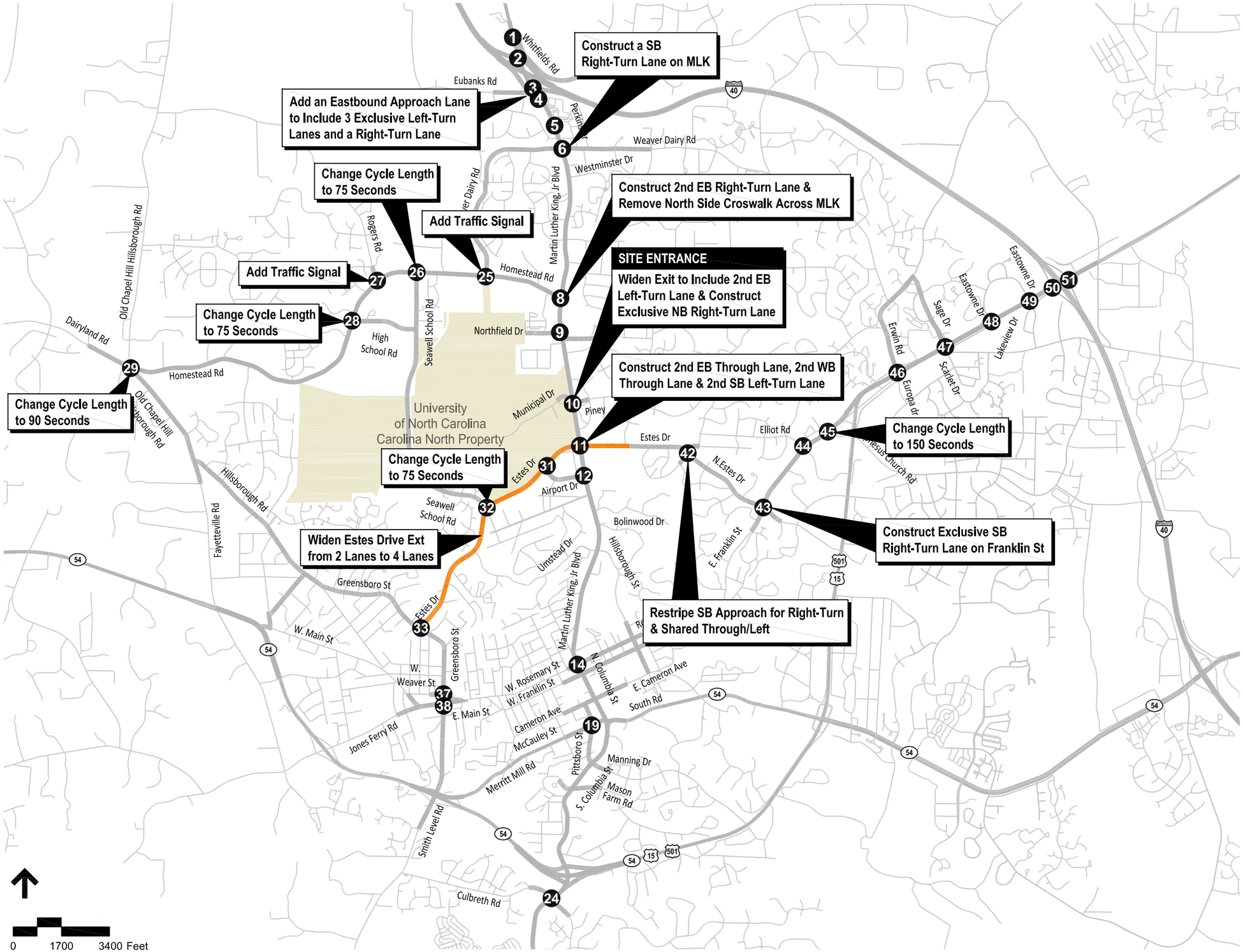


CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 14
2015 (TIA Phase 1) Build Traffic Mitigation

Chapel Hill, North Carolina

Vanasse Hangen Brustlin, Inc.



Legend

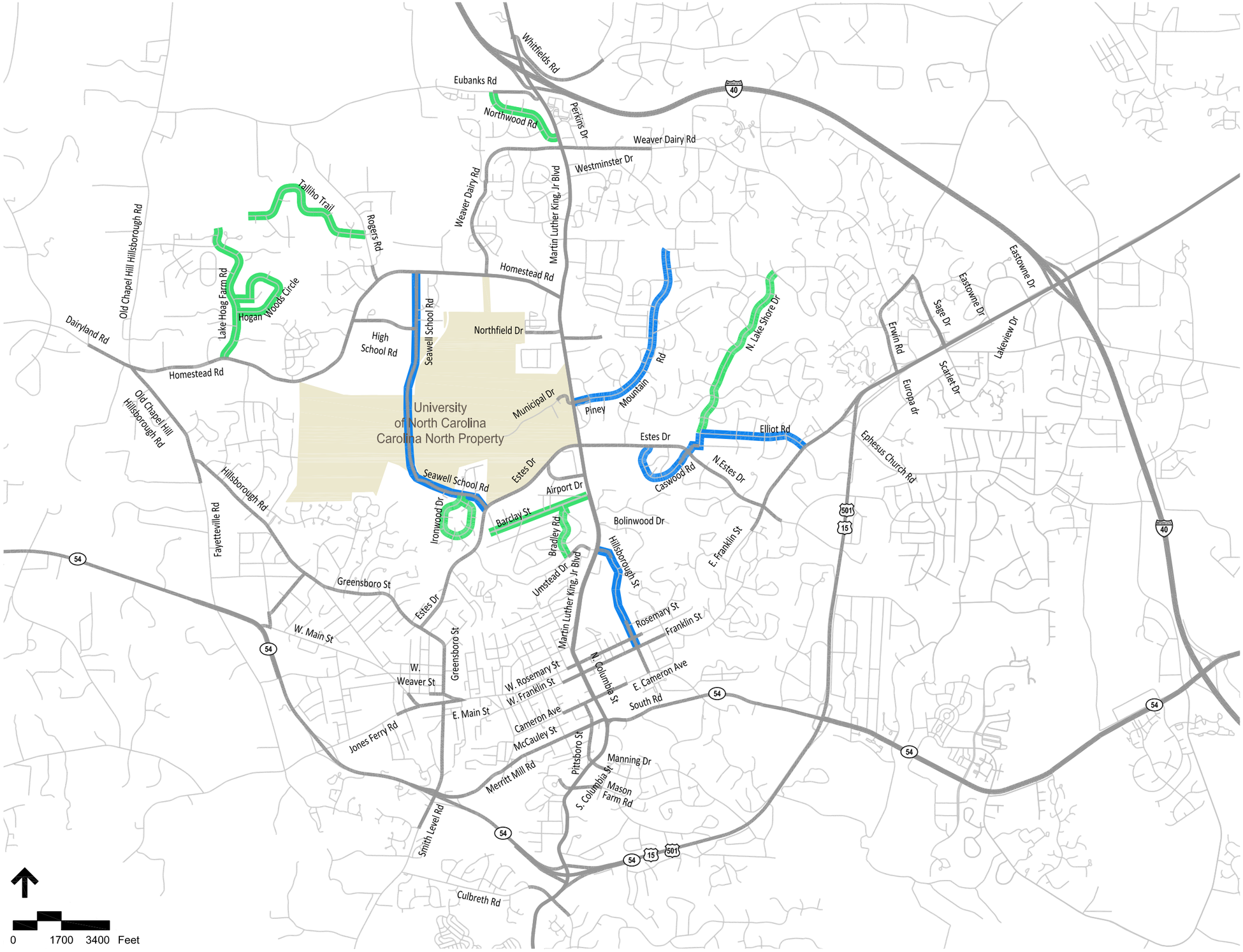
- # Signal Timing Improvements
- Road Widening

CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 15
2030 (TIA Phase 2) Build Traffic Mitigation

Chapel Hill, North Carolina

Vanasse Hangen Brustlin, Inc.



Legend

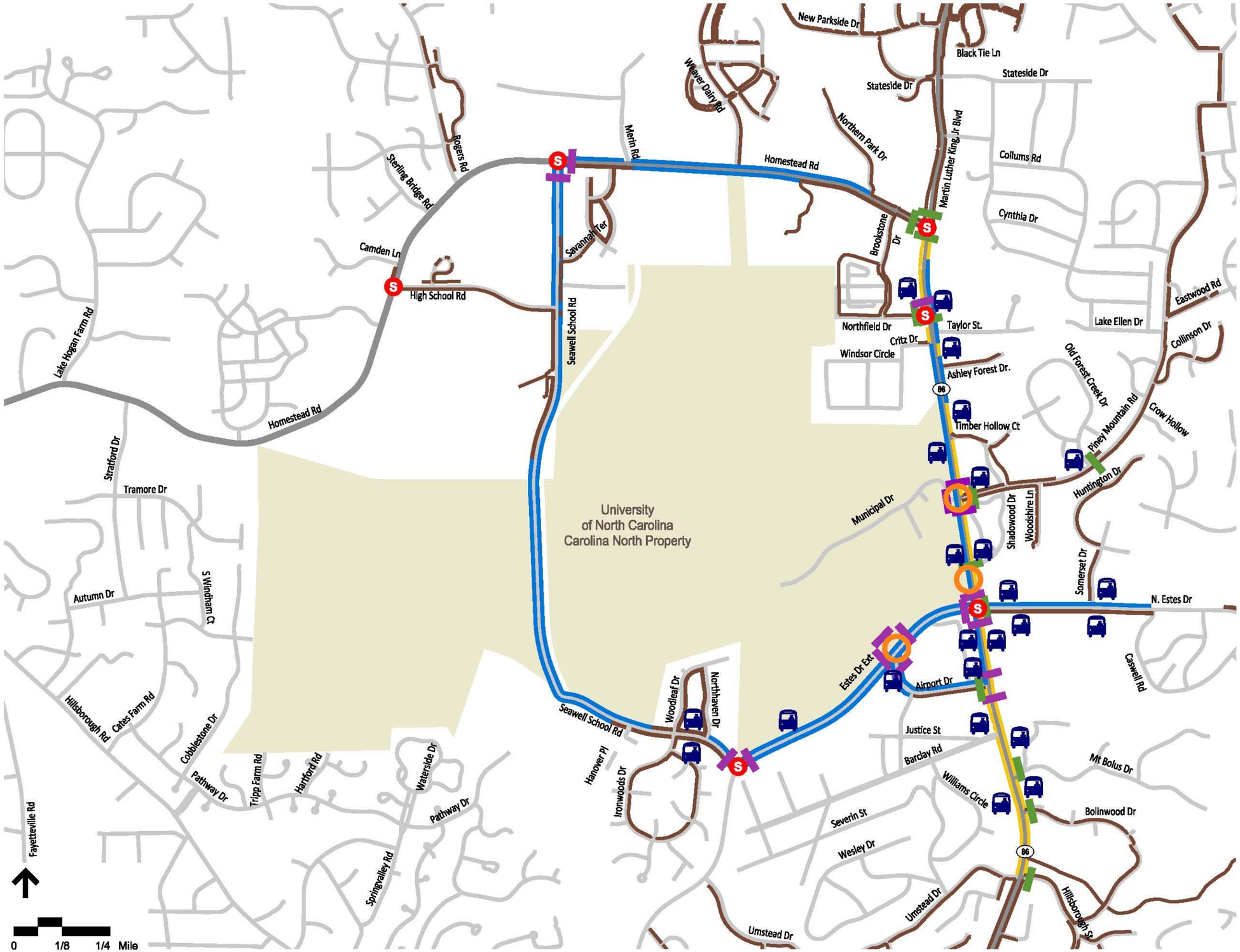
- Roads Identified for Potential Traffic Calming
- Roads Projected to Carry Traffic Generated by Carolina North

CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 16
Traffic Calming Mitigation

Chapel Hill, North Carolina

Vanasse Hangen Brustlin, Inc.



Legend

- Signalized Intersections
- Existing Sidewalk
- Recommended New Sidewalk
- Recommended Reconstruction Existing Sidewalk
- Existing Crosswalk
- Recommended New Crosswalk
- Access Points
- Existing Bus Stop

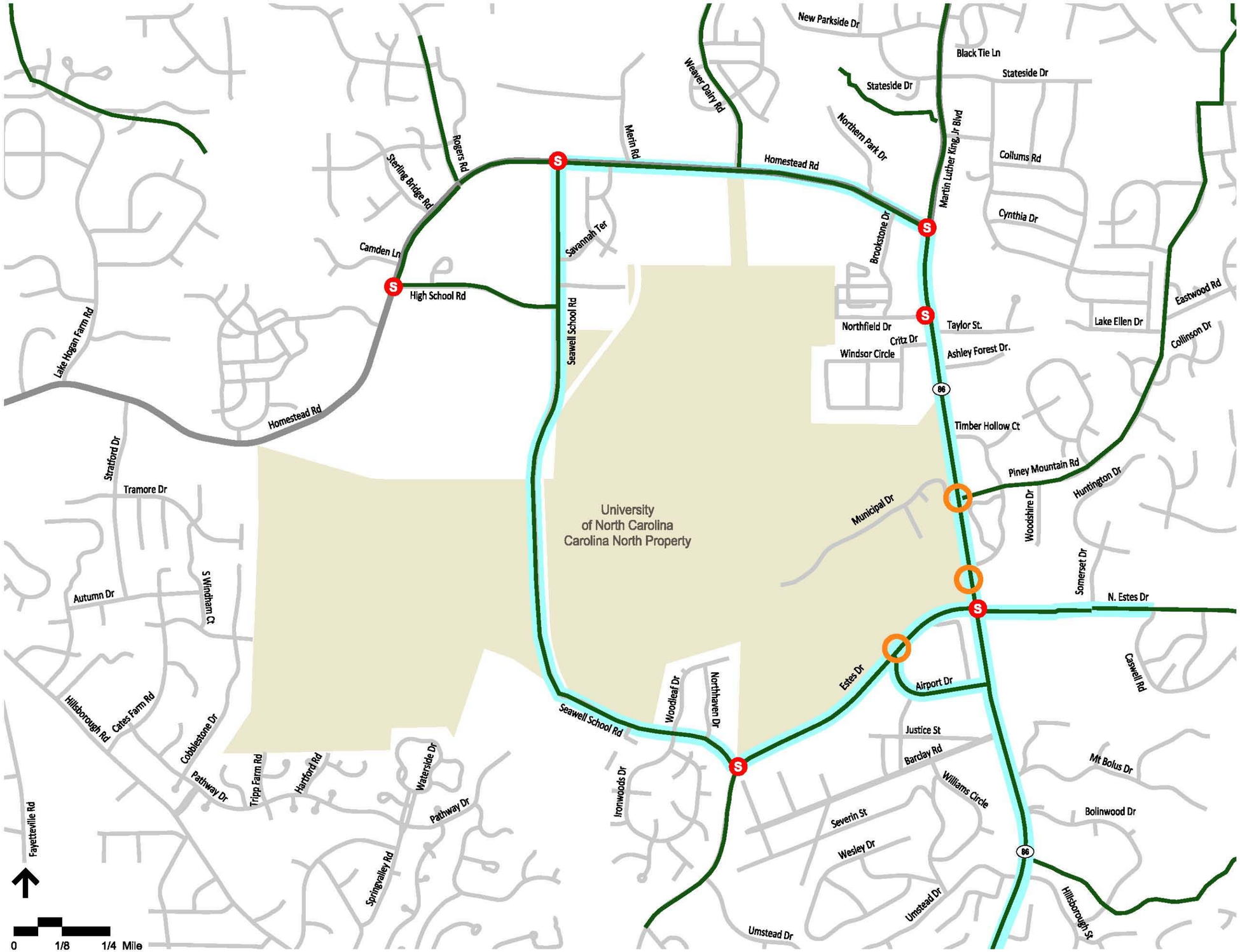
Note: Recommendations are the outcome of LOS analysis, and do not necessarily reflect improvements committed by the Carolina North development.

CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 17
Pedestrian Facility Improvements

Chapel Hill, North Carolina

VHB *Vanasse Hangen Brustlin, Inc.*



Legend

- Study Area Intersections
- Existing Bicycle Network
- Recommended New Bicycle Lanes
- Access Points

Note: Recommendations are the outcome of LOS analysis, and do not necessarily reflect improvements committed by the Carolina North development.

CAROLINA NORTH TIA
Chapel Hill, North Carolina

Figure 18
Bicycle Facility Recommendations

Chapel Hill, North Carolina

VHB *Vanasse Hangen Brustlin, Inc.*