



TRIANGLE WEST

Transportation Planning Organization

April 2025 DRAFT

**Triangle West Transportation
Planning Organization**

VISION ZERO ACTION PLAN

Appendix D

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Appendix D: Member Agency Maps & Actions



This appendix includes information that is detailed for specific Triangle West TPO member agencies. The following agencies are included:

Town of Carrboro Town of Chapel Hill

City of Durham Town of Hillsborough

Durham County Orange County

Chatham County

For each of these agencies, results from data analysis have been mapped to the respective jurisdiction. Additionally, some action items have been updated based on comments from the Technical Advisory Committee (TAC) to include details that are specific to the member agency. This may include a change in wording or an update to the recommended timeframe for the action. Only the modified actions are included in this appendix. The proposed actions in the Vision Zero Plan should be used by the jurisdiction.

A series of maps are included for each member agency followed by the updated action table (if applicable). The maps included in this appendix for each member agency are the following:

- Crash Map: illustrating fatal and serious injury crashes
- High Injury Network (HIN)
- High Injury Intersections
- Vulnerable Roadway User (VRU) High Injury corridors and intersections
- High Risk Corridors

- » Pedestrian Risk
- » Bicycle Risk
- » Motorcycle Risk
- » Speed Risk
- » Lane Departure Risk
- High Risk Intersections
- Indicators of Potential Disadvantage and HIN
- Priority Corridors
- Priority Intersections

Town of Carrboro



Source: Town of Carrboro

Community Data

The following information is provided as a resource for the Town of Carrboro and can be used to support grant applications. Content specific to risk analysis should be used in conjunction with data from the Triangle West TPO Vision Zero Action Plan and is unique to Carrboro.

Population

20,240 (2020)

Roadway Fatalities and Serious Injuries

- 2017-2023
 - » 4 fatalities
 - » Fatality rate per 100K: 2.82
 - » 5 serious injuries
- 2018-2022
 - » 3 fatalities
 - » Fatality rate per 100K: 2.96
 - » 3 serious injuries

High Injury Network Coverage

13.52% of roadway miles cover 100% of fatal and serious injury crashes (2017-2023)

Risk Analysis Thresholds

The following provide information related to the data for each community and applicable attributes.

Pedestrian Risk

- Top 5% = “prob_ped” > 0.13
- Top 15% = “prob_ped” > 0.05 and < 0.13

Bicycle Risk

- Top 5% = “prob_bike” > 0.13
- Top 15% = “prob_bike” > 0.04 and < 0.13

Motorcycle Risk

- Top 5% = “prob_MC” > 0.08
- Top 15% = “prob_MC” > 0.02 and < 0.08

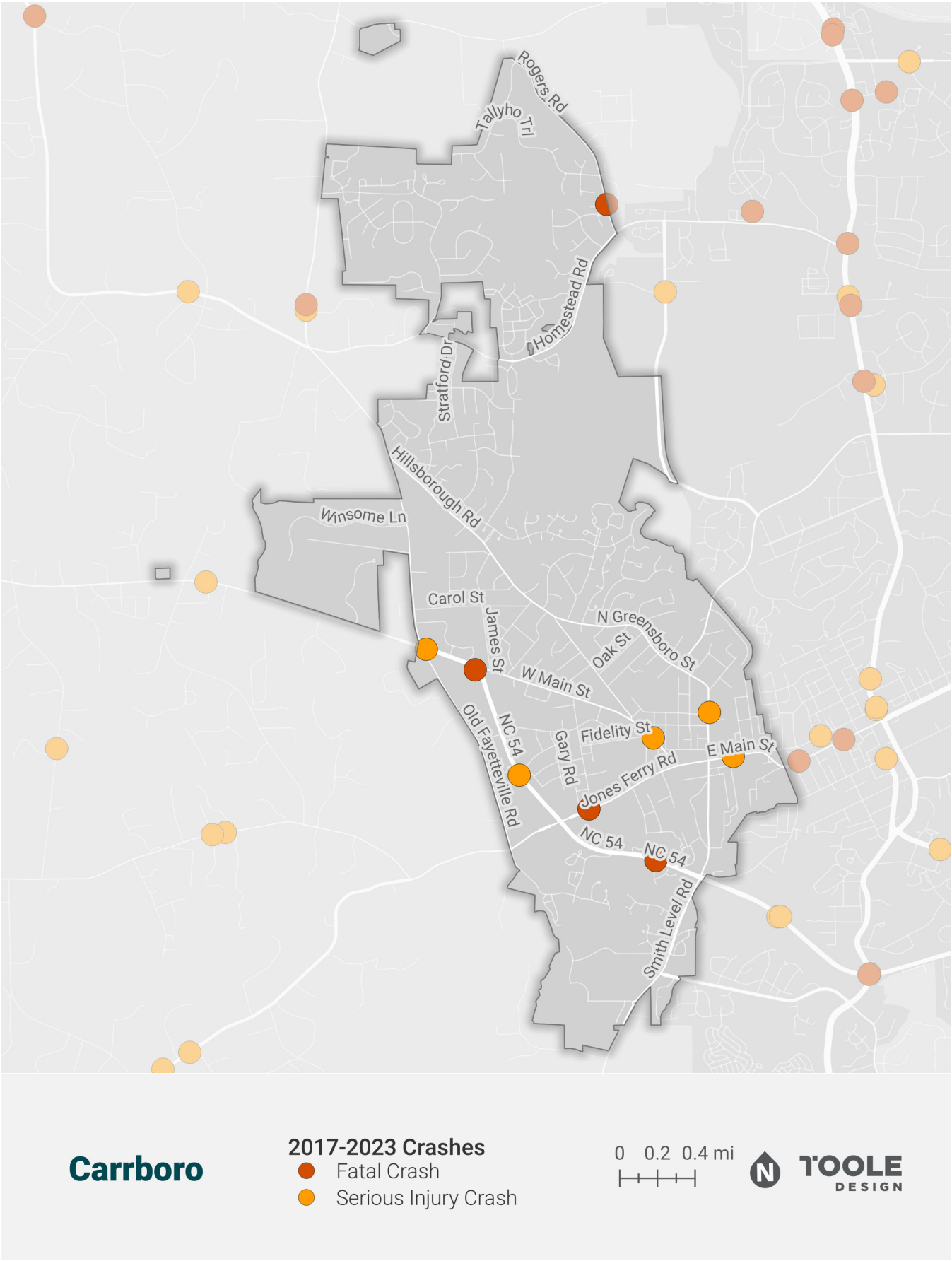
Speed Risk

- Top 5% = “prob_speed” > 0.15
- Top 15% = “prob_speed” > 0.04 and < 0.15

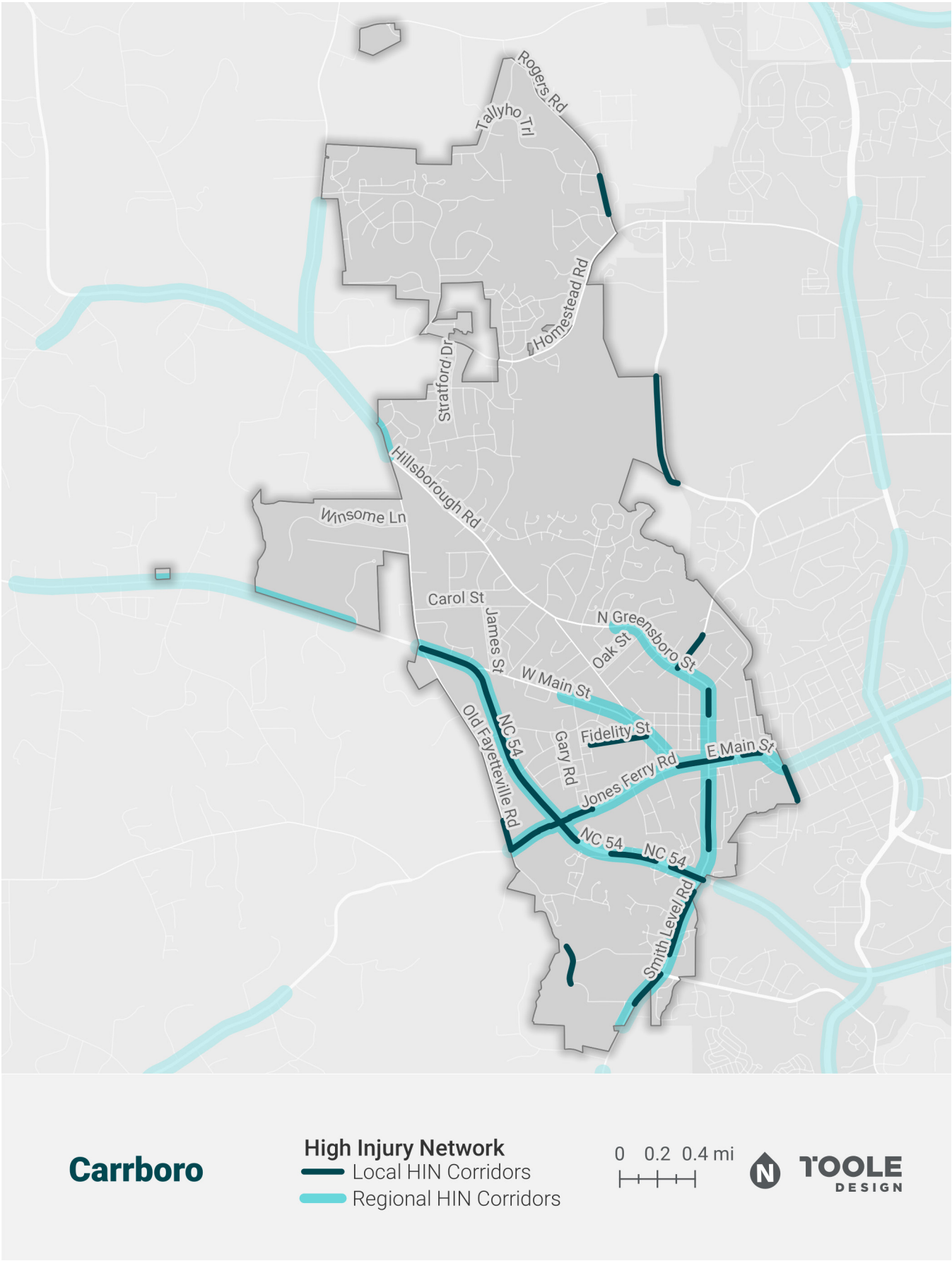
Lane Departure Risk

- Top 5% = “prob_LD” > 0.36
- Top 15% = “prob_LD” > 0.13 and < 0.36

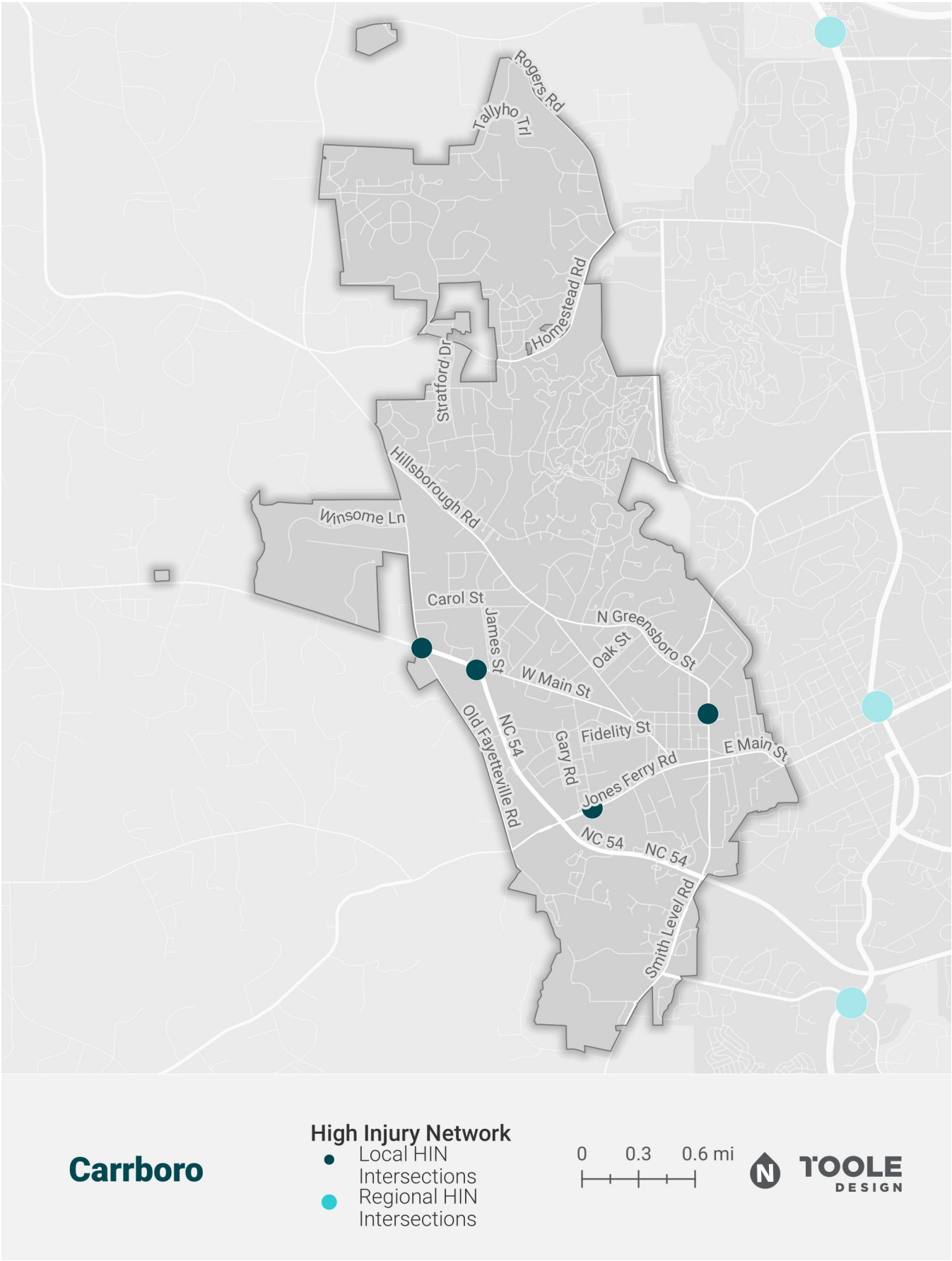
MAP 1 Carrboro Crash Map



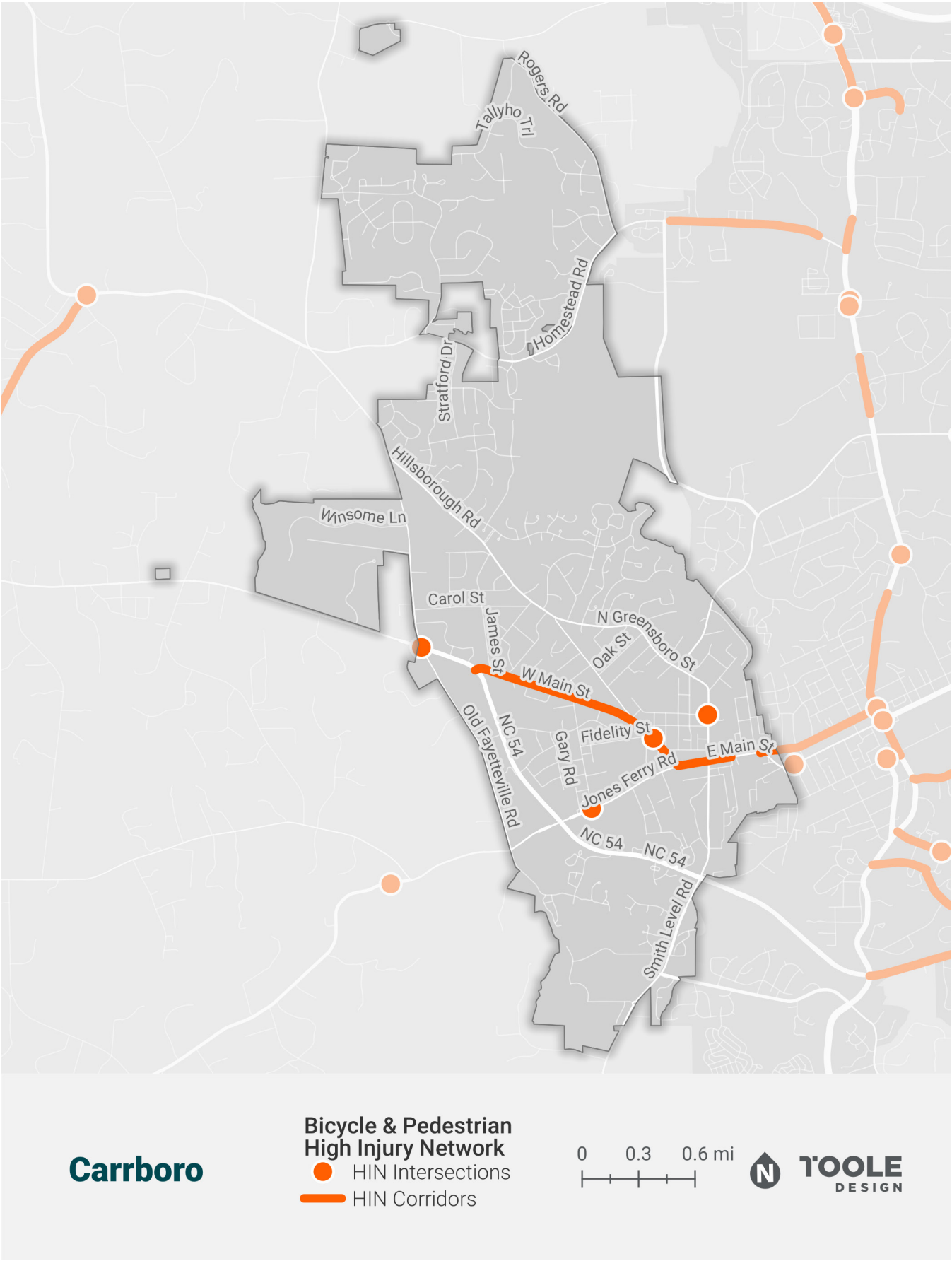
MAP 2 Carrboro High Injury Network Map



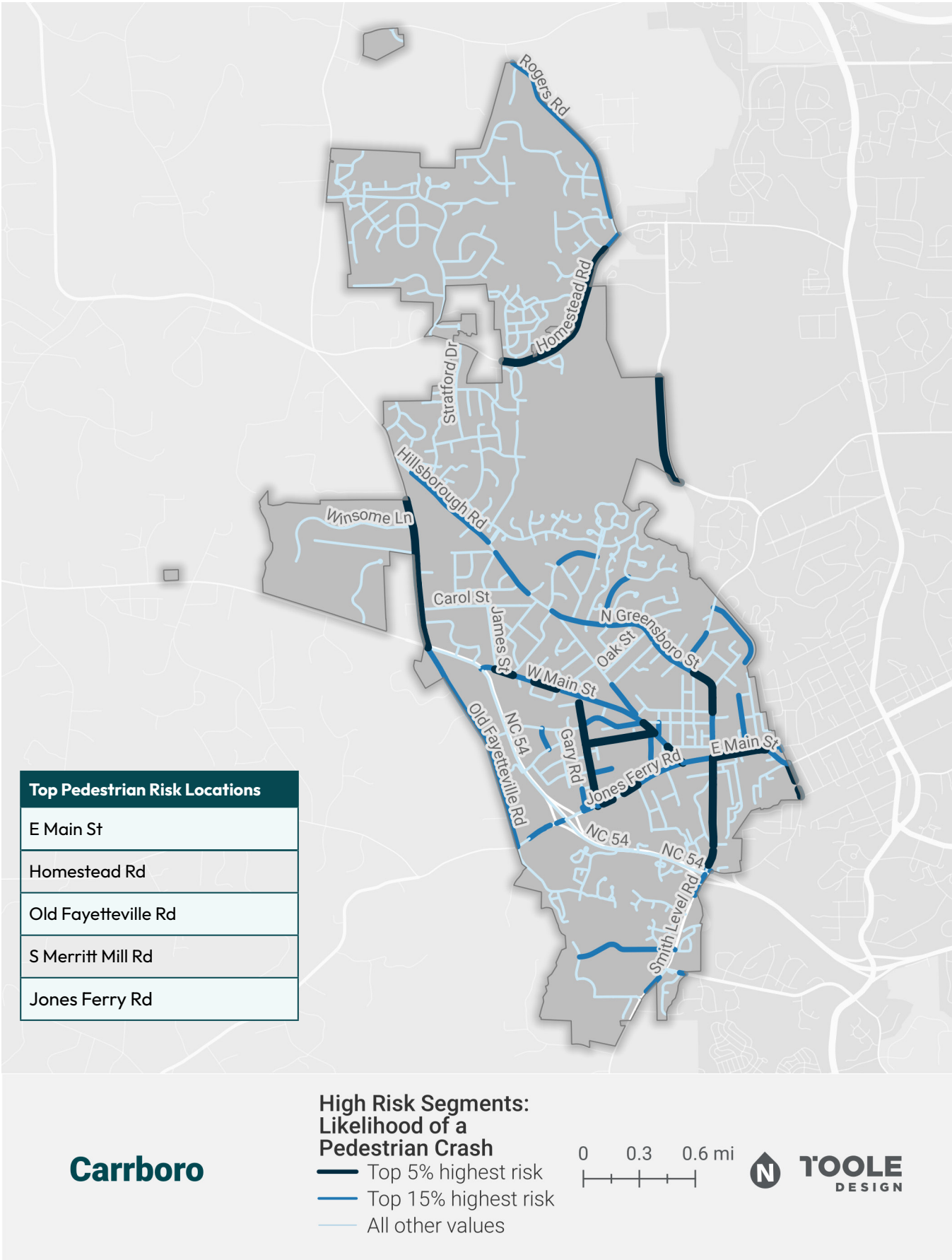
MAP 3 Carrboro High Injury Intersections Map



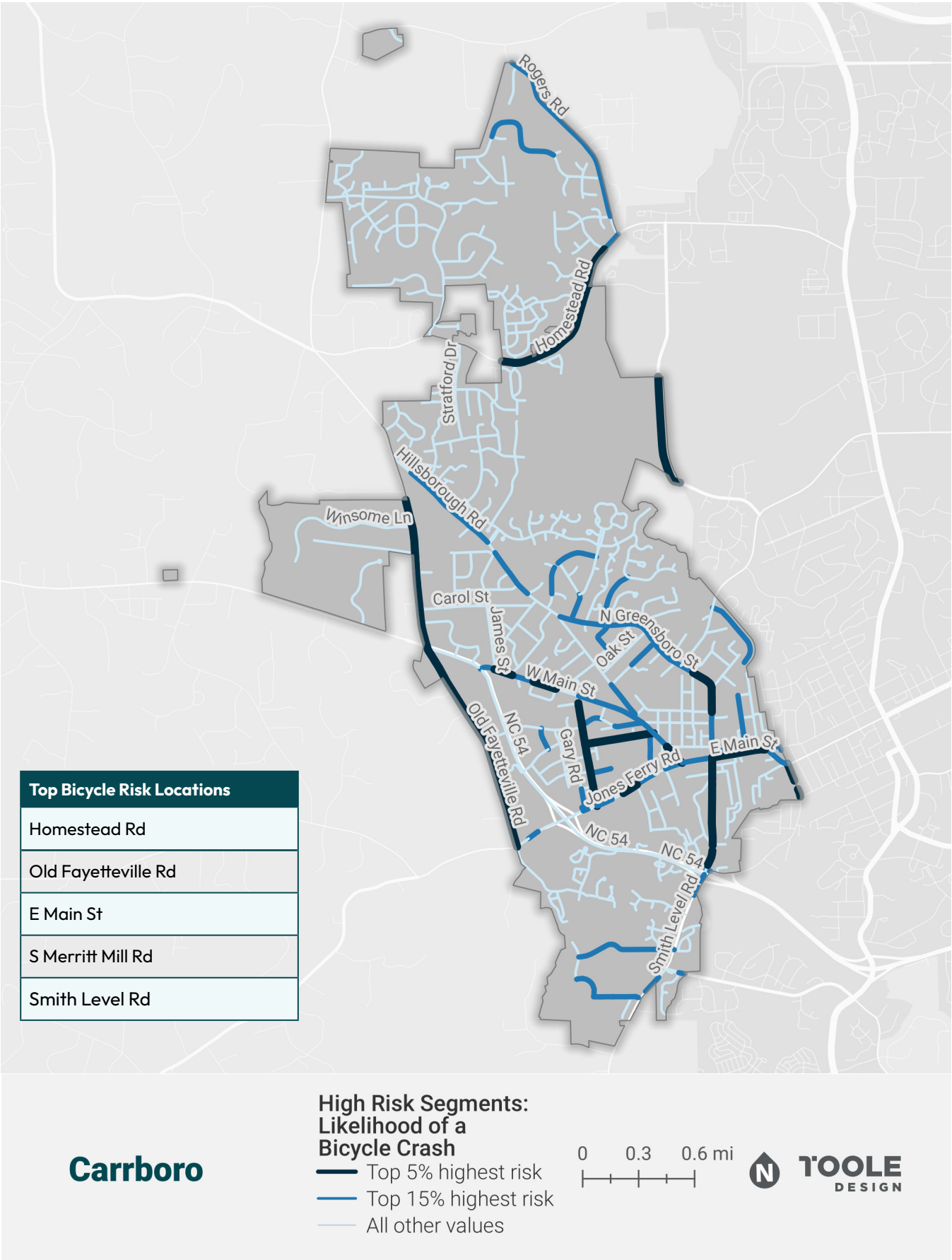
MAP 4 Carrboro VRU High Injury Corridors and Intersections Map



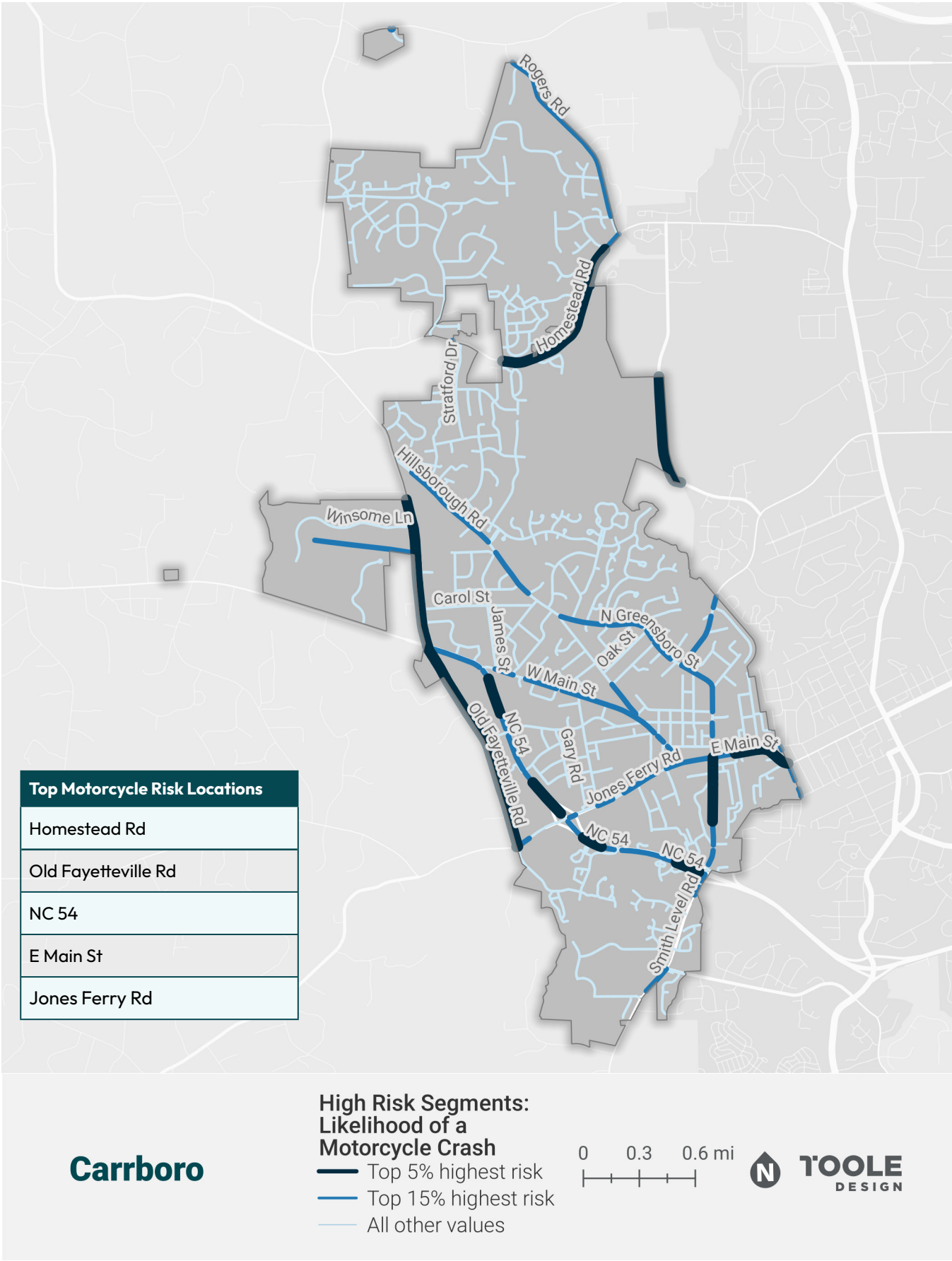
MAP 5 Carrboro High Risk Corridors : Pedestrian Risk



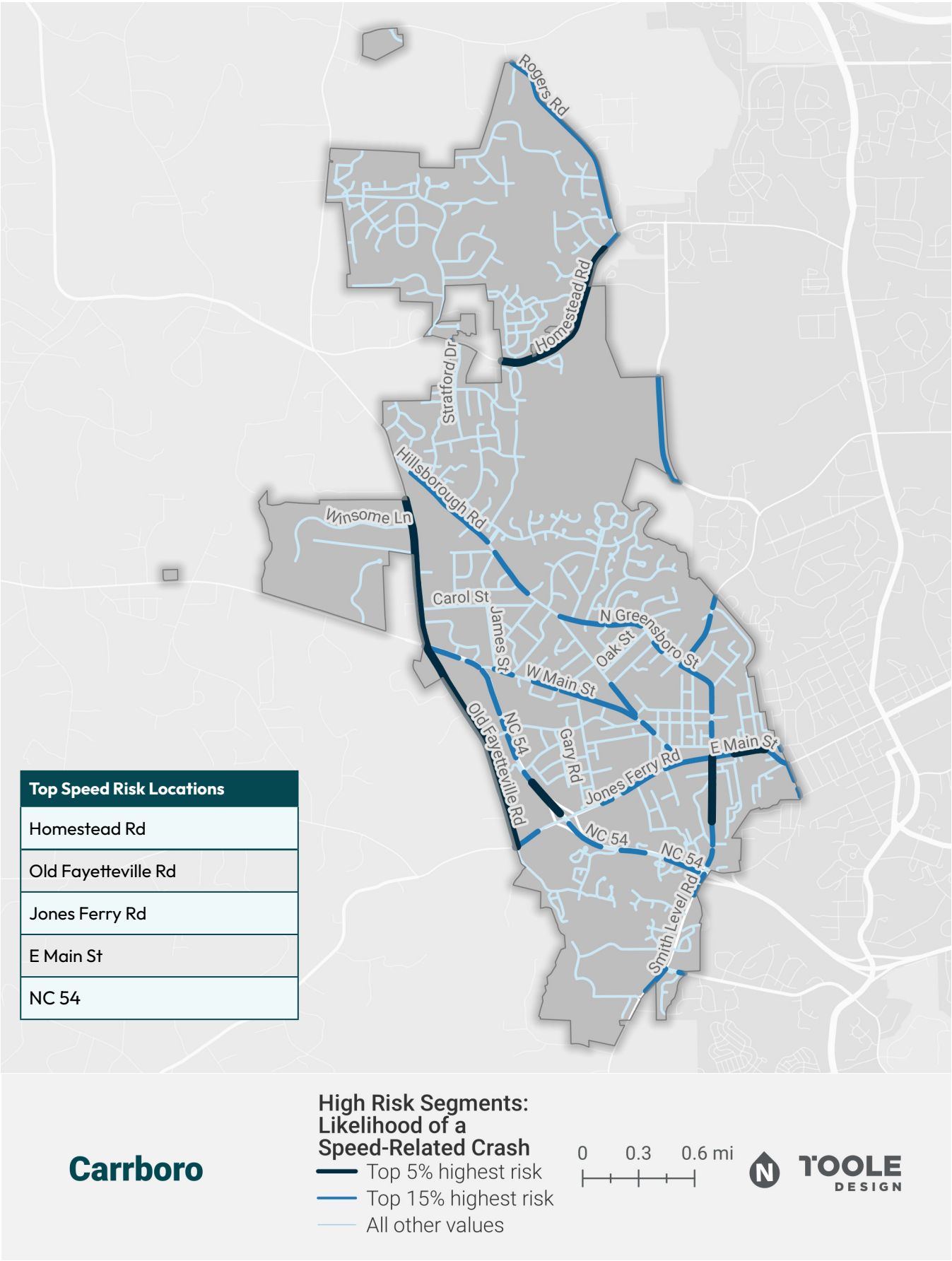
MAP 6 Carrboro High Risk Corridors Map: Bicycle Risk



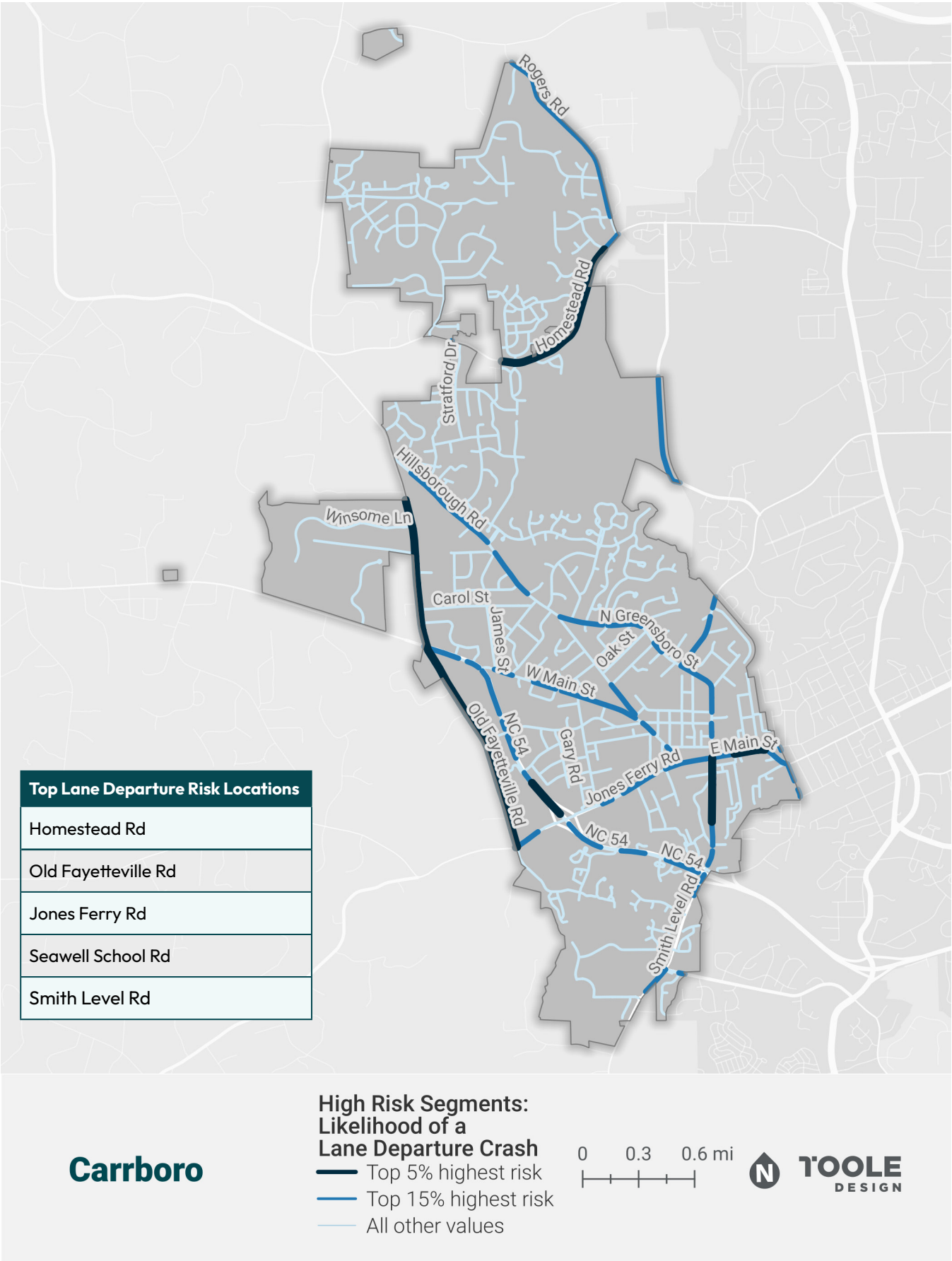
MAP 7 Carrboro High Risk Corridors Map: Motorcycle Risk



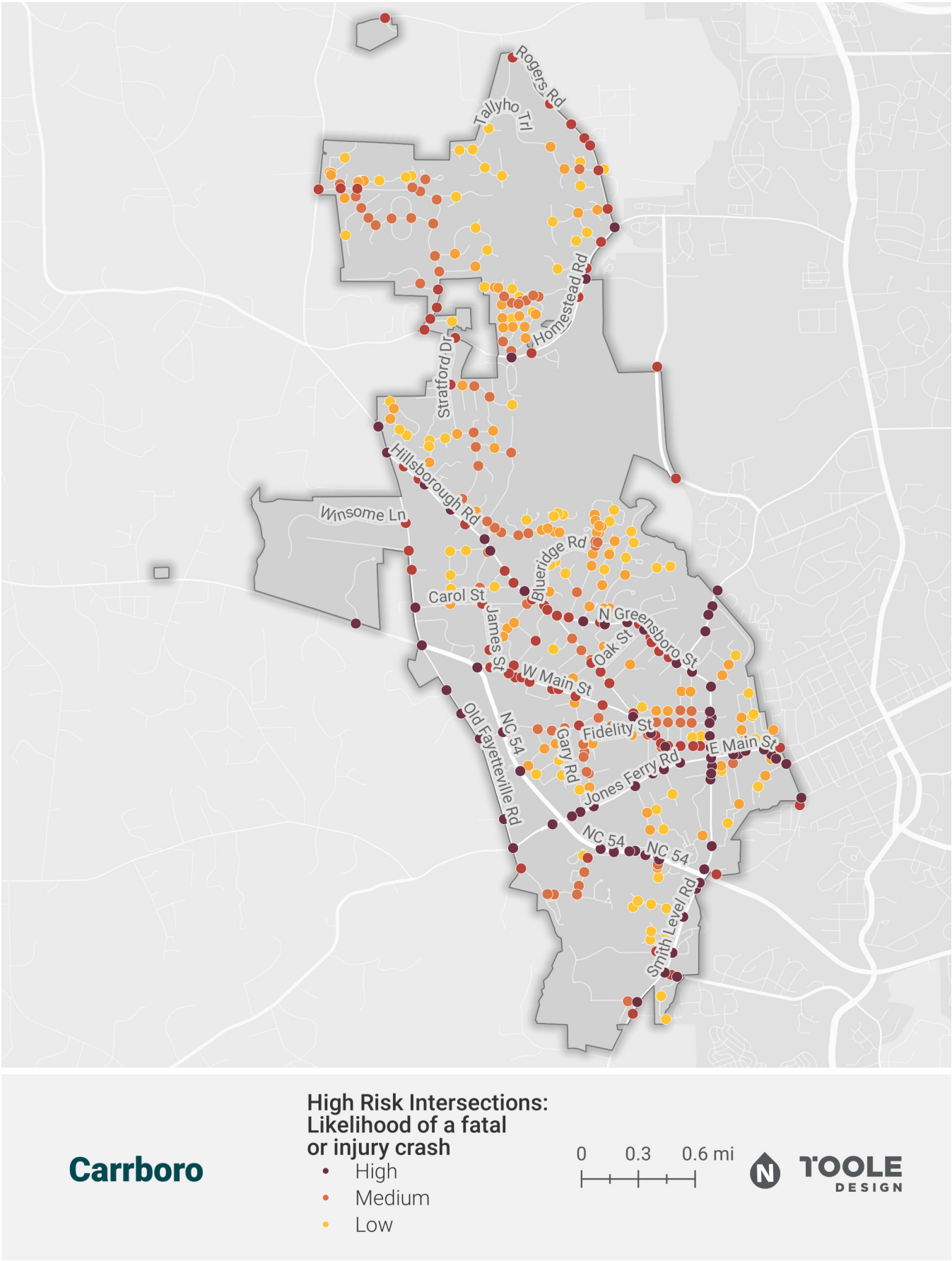
MAP 8 Carrboro High Risk Corridors Map: Speed Risk



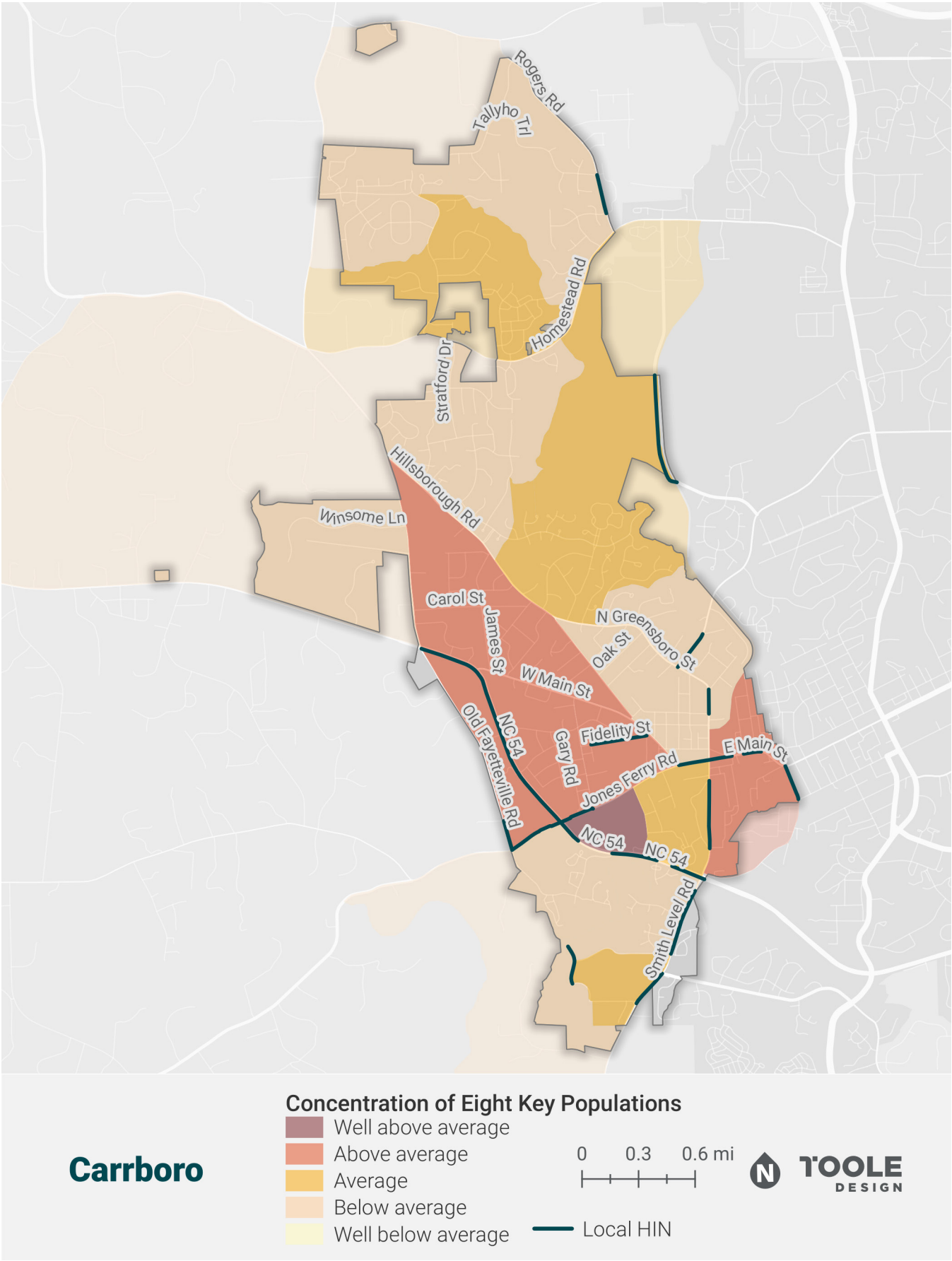
MAP 9 Carrboro High Risk Corridors Map: Lane Departure Risk



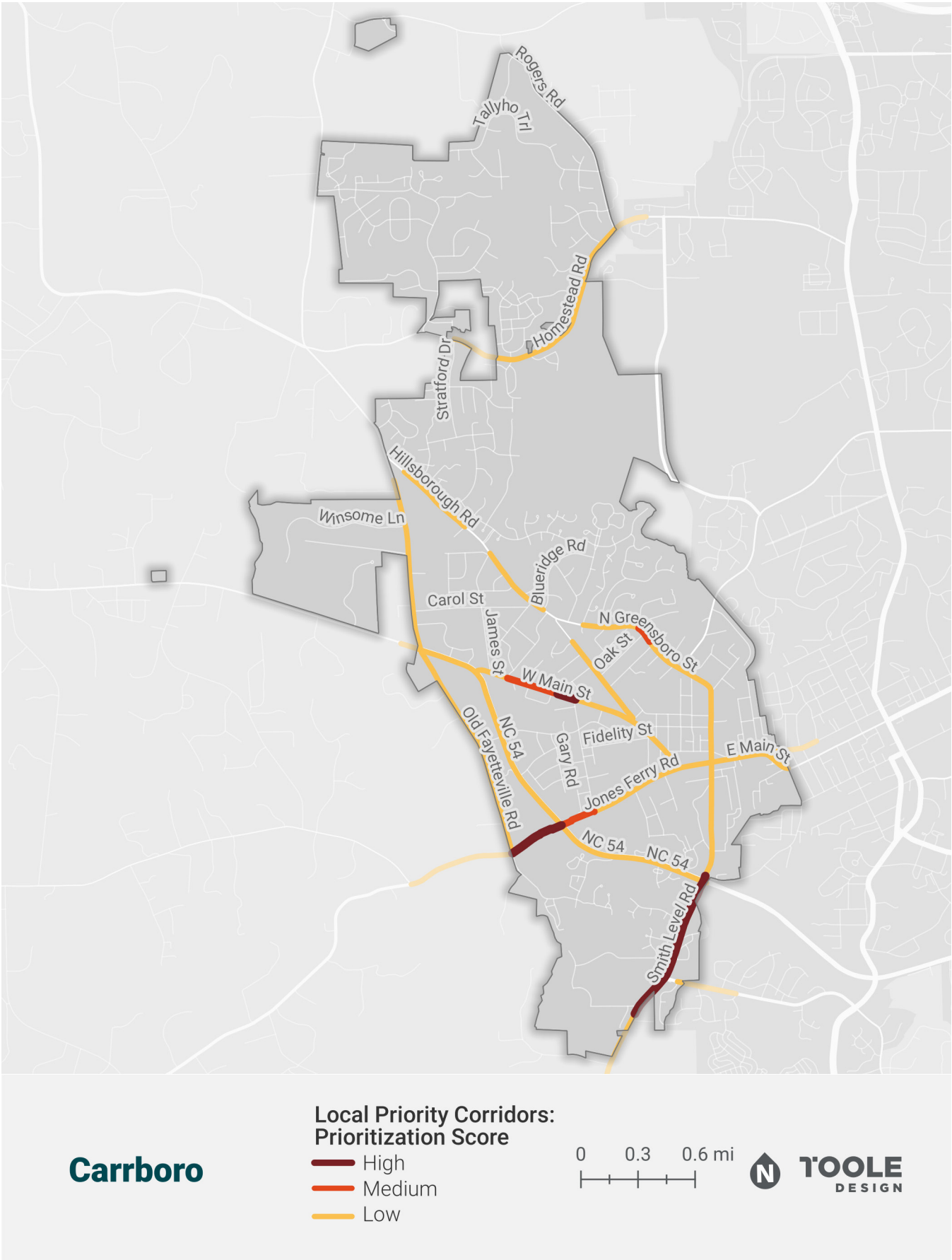
MAP 10 Carrboro High Risk Intersections Map



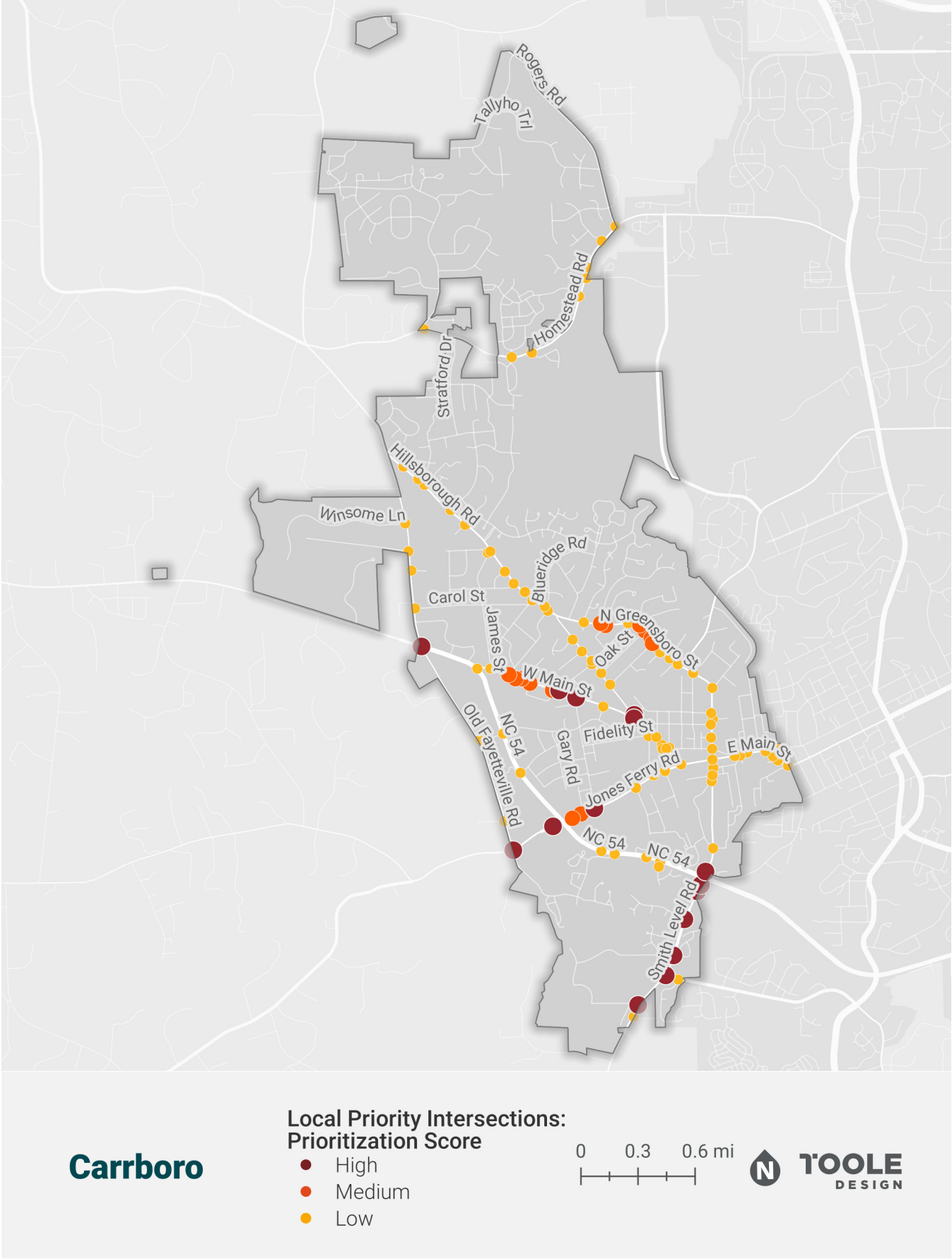
MAP 11 Carrboro Indicators of Potential Disadvantage and HIN Map



MAP 12 Carrboro Priority Corridors Map



MAP 13 Carrboro Priority Intersections Map



Town of Chapel Hill



Estes Drive, Chapel Hill

Credit: Ryanbee Photoworks

Community Data

The following information is provided as a resource for the Town of Chapel Hill and can be used to support grant applications. Content specific to risk analysis should be used in conjunction with data from the Triangle West TPO Vision Zero Action Plan and is unique to Chapel Hill.

Population

62,000 (2020)

Roadway Fatalities and Serious Injuries

- 2017-2023
 - » 17 fatalities
 - » Fatality rate per 100K: 3.92
 - » 34 serious injuries
- 2018-2022
 - » 12 fatalities
 - » Fatality rate per 100K: 3.87
 - » 24 serious injuries

High Injury Network Coverage

13.74% of roadway miles cover 88% of fatal and serious injury crashes (2017-2023)

Risk Analysis Thresholds

The following provides information related to the data for each community and applicable attributes.

Pedestrian Risk

- Top 5% = “prob_ped” > 0.15
- Top 15% = “prob_ped” > 0.05 and < 0.15

Bicycle Risk

- Top 5% = “prob_bike” > 0.12
- Top 15% = “prob_bike” > 0.04 and < 0.12

Motorcycle Risk

- Top 5% = “prob_MC” > 0.08
- Top 15% = “prob_MC” > 0.02 and < 0.08

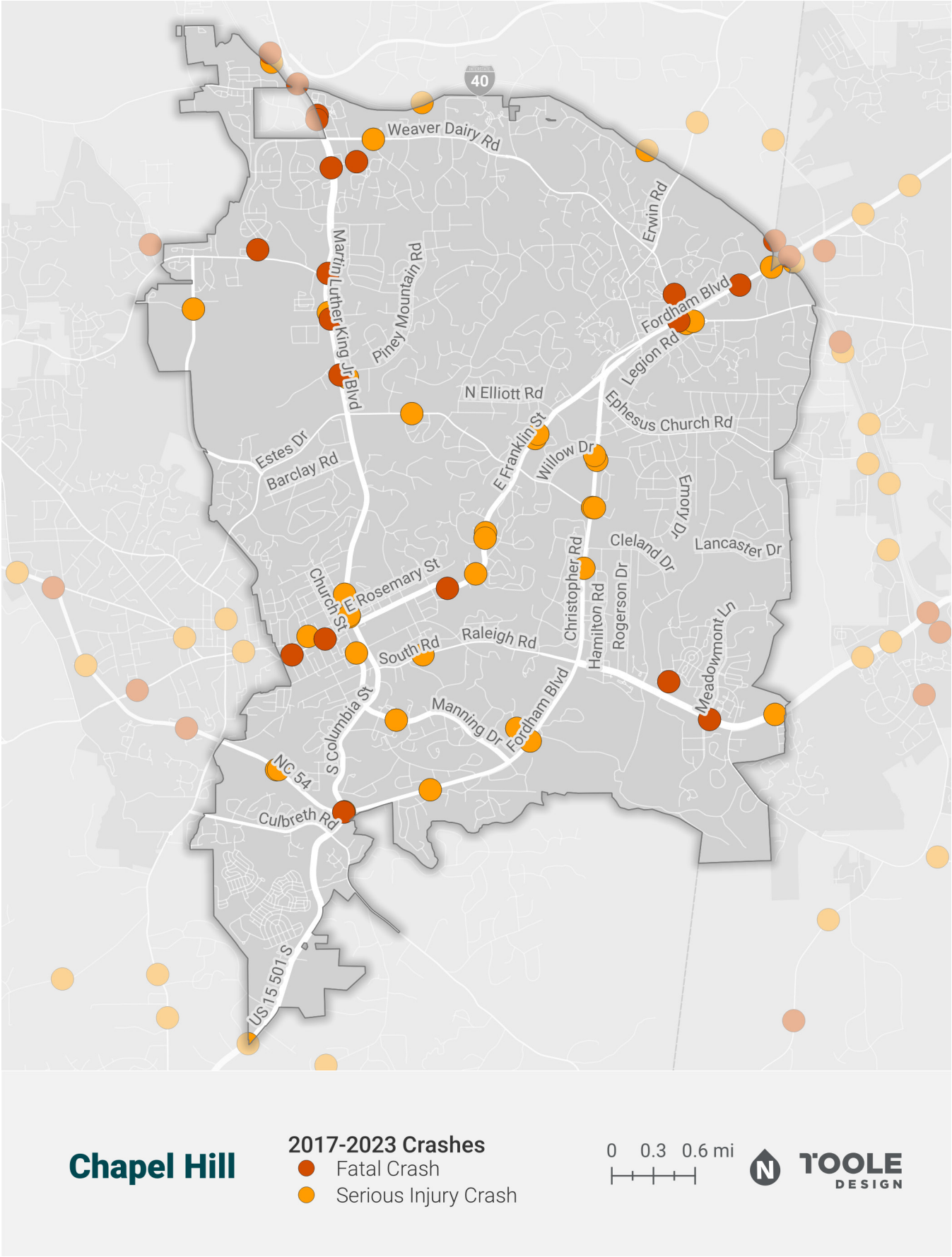
Speed Risk

- Top 5% = “prob_speed” > 0.13
- Top 15% = “prob_speed” > 0.04 and < 0.13

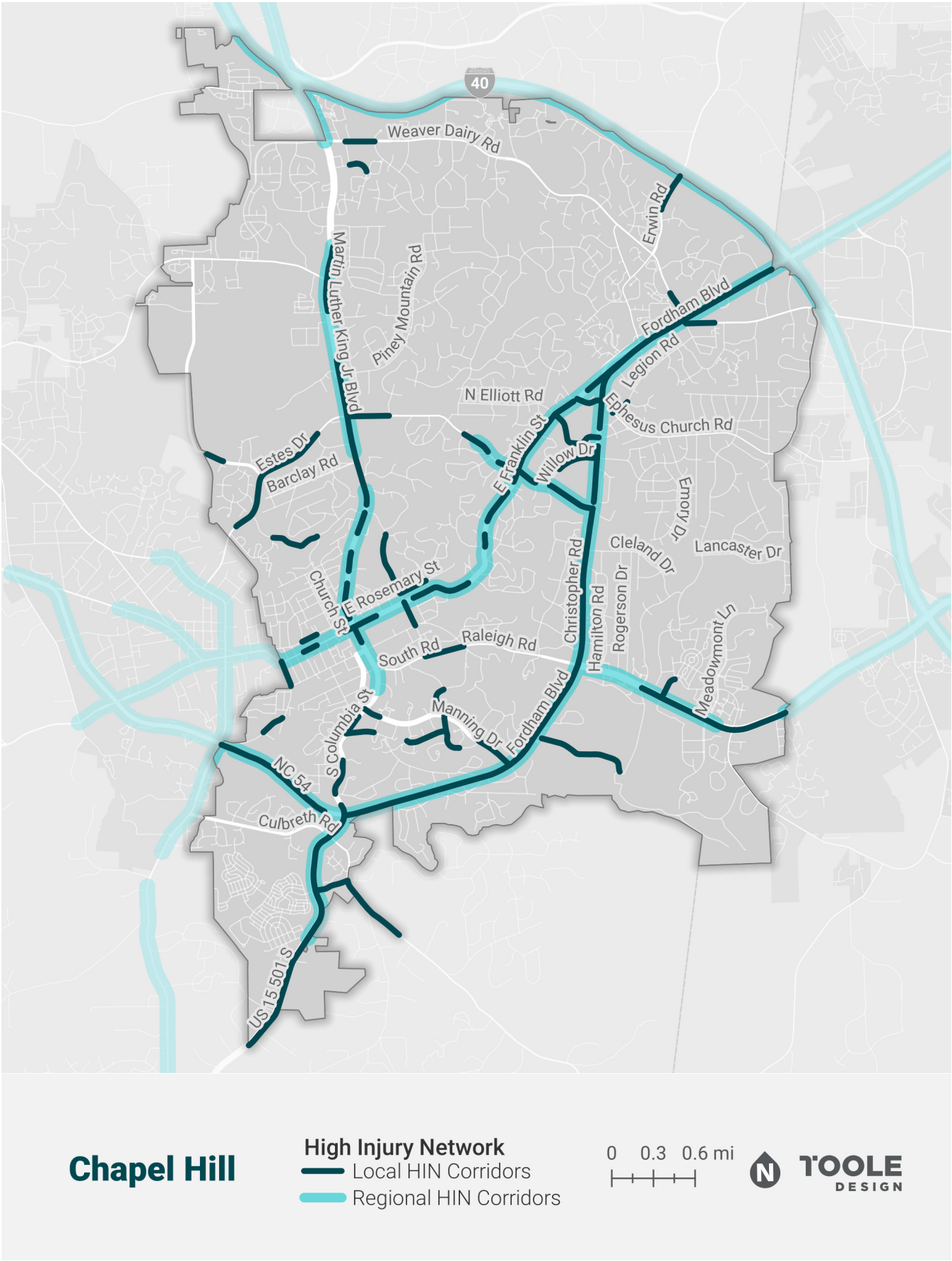
Lane Departure Risk

- Top 5% = “prob_LD” > 0.33
- Top 15% = “prob_LD” > 0.10 and < 0.30

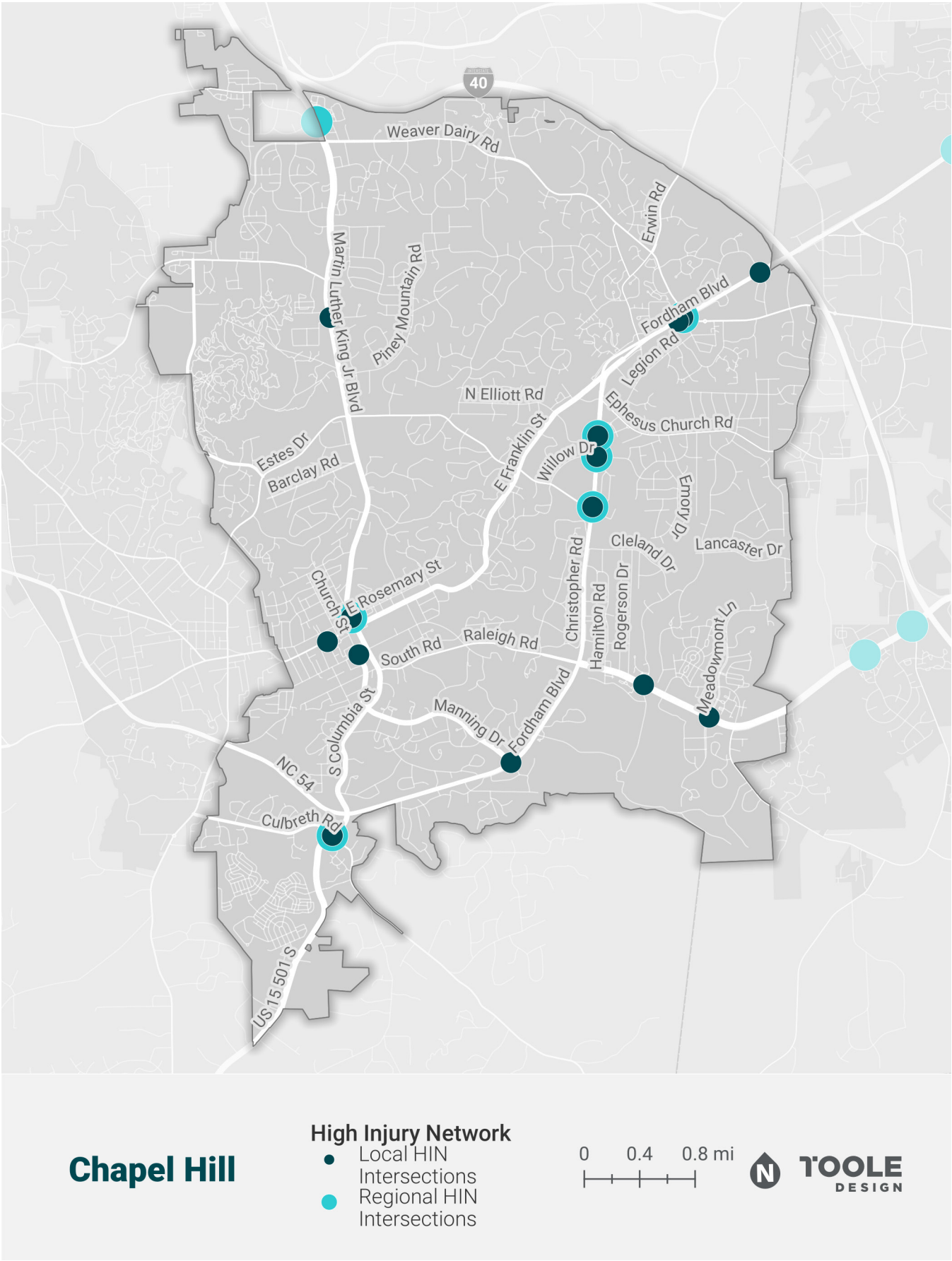
MAP 14 Chapel Hill Crash Map



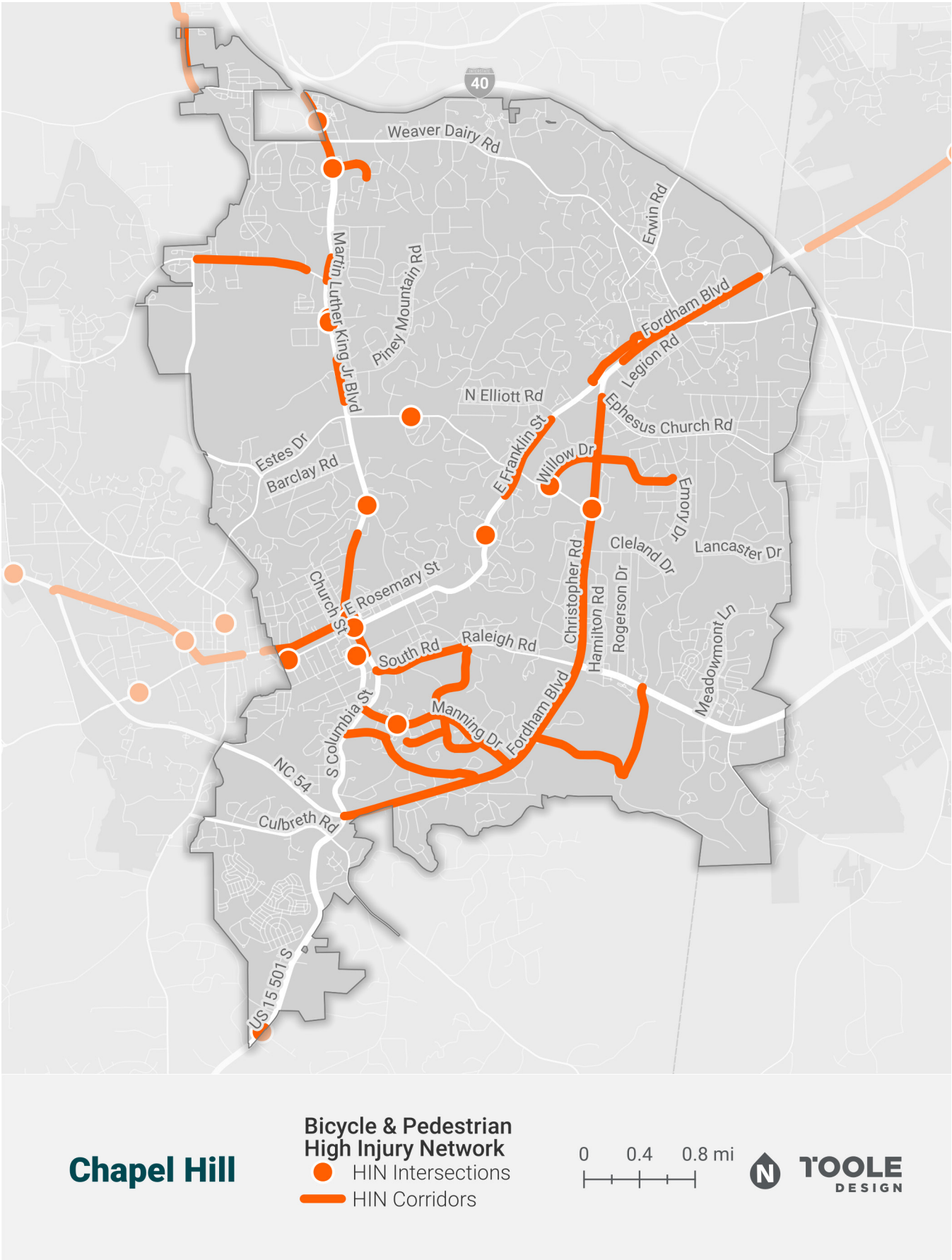
MAP 15 Chapel Hill High Injury Network Map



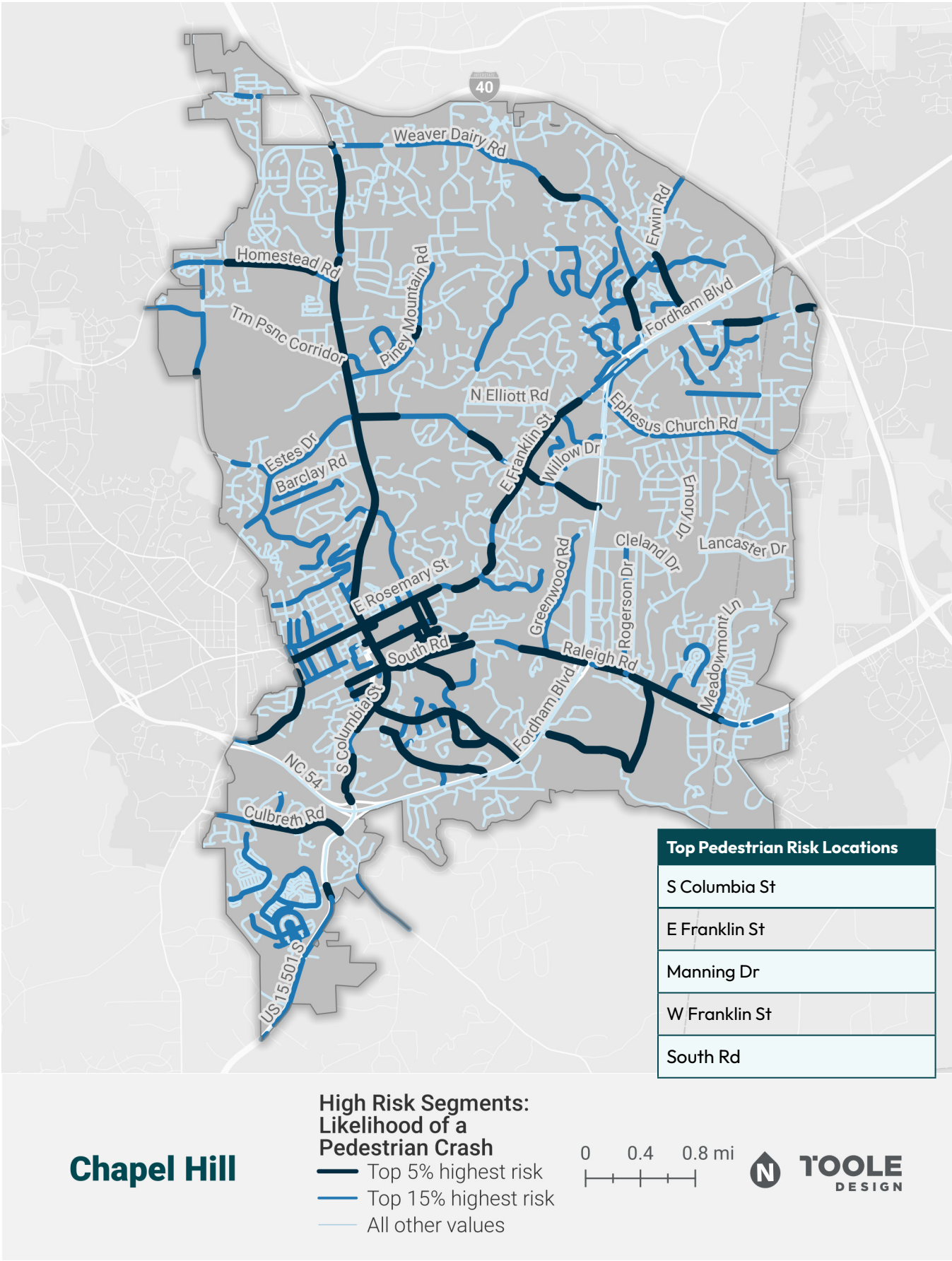
MAP 16 Chapel Hill High Injury Intersections Map



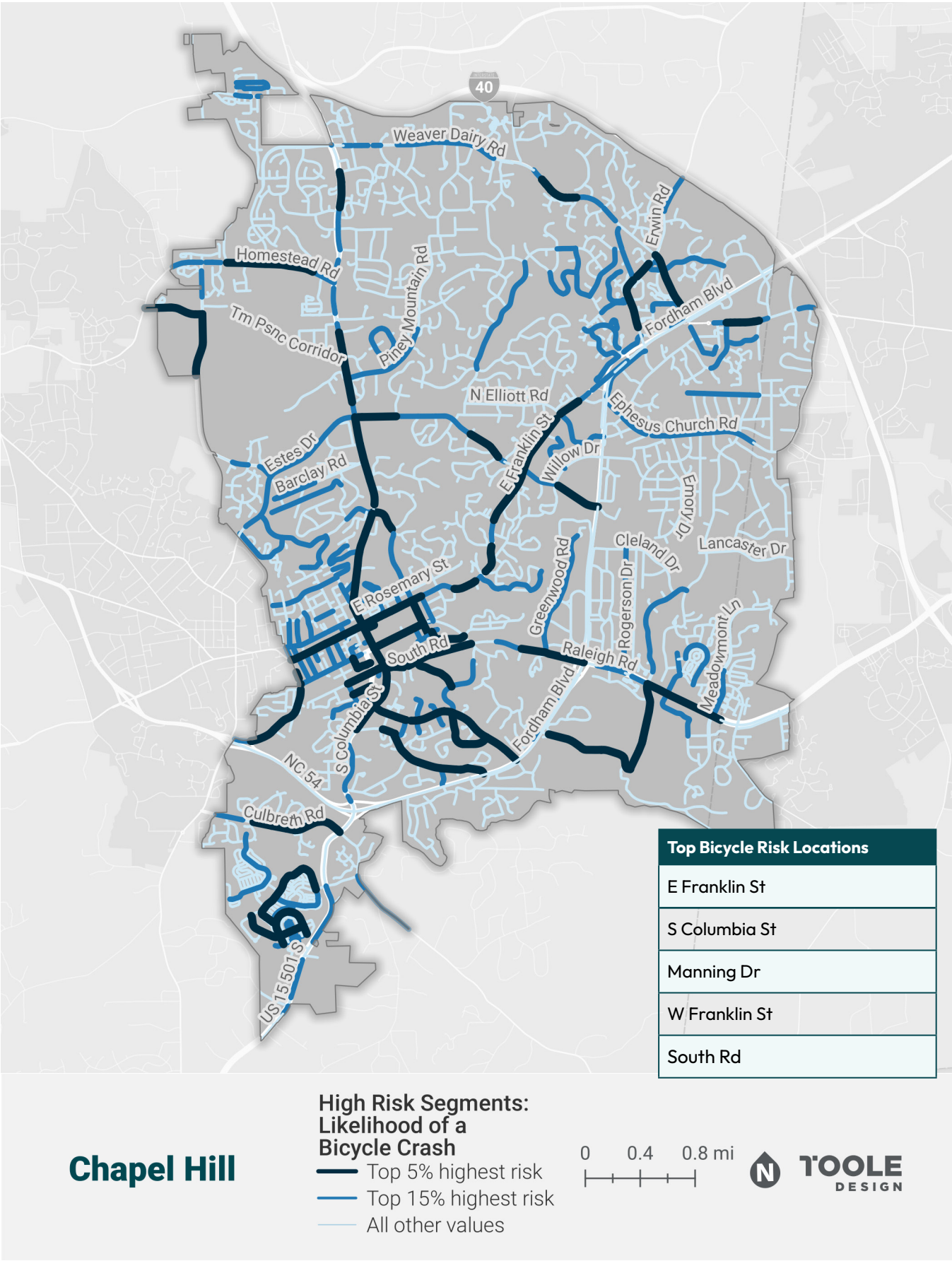
MAP 17 Chapel Hill VRU High Injury Corridors and Intersections Map



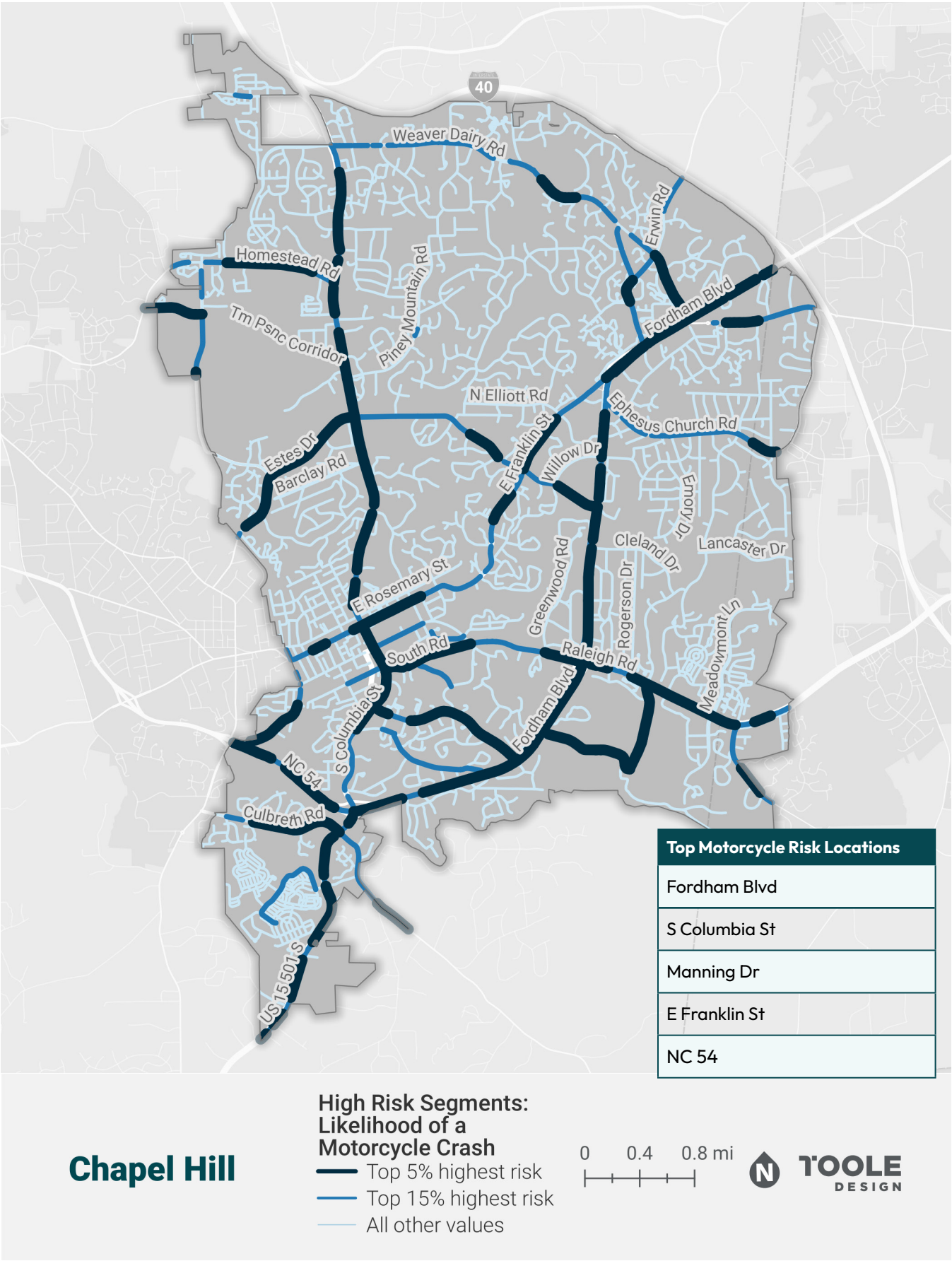
MAP 18 Chapel Hill High Risk Corridors Map: Pedestrian Risk



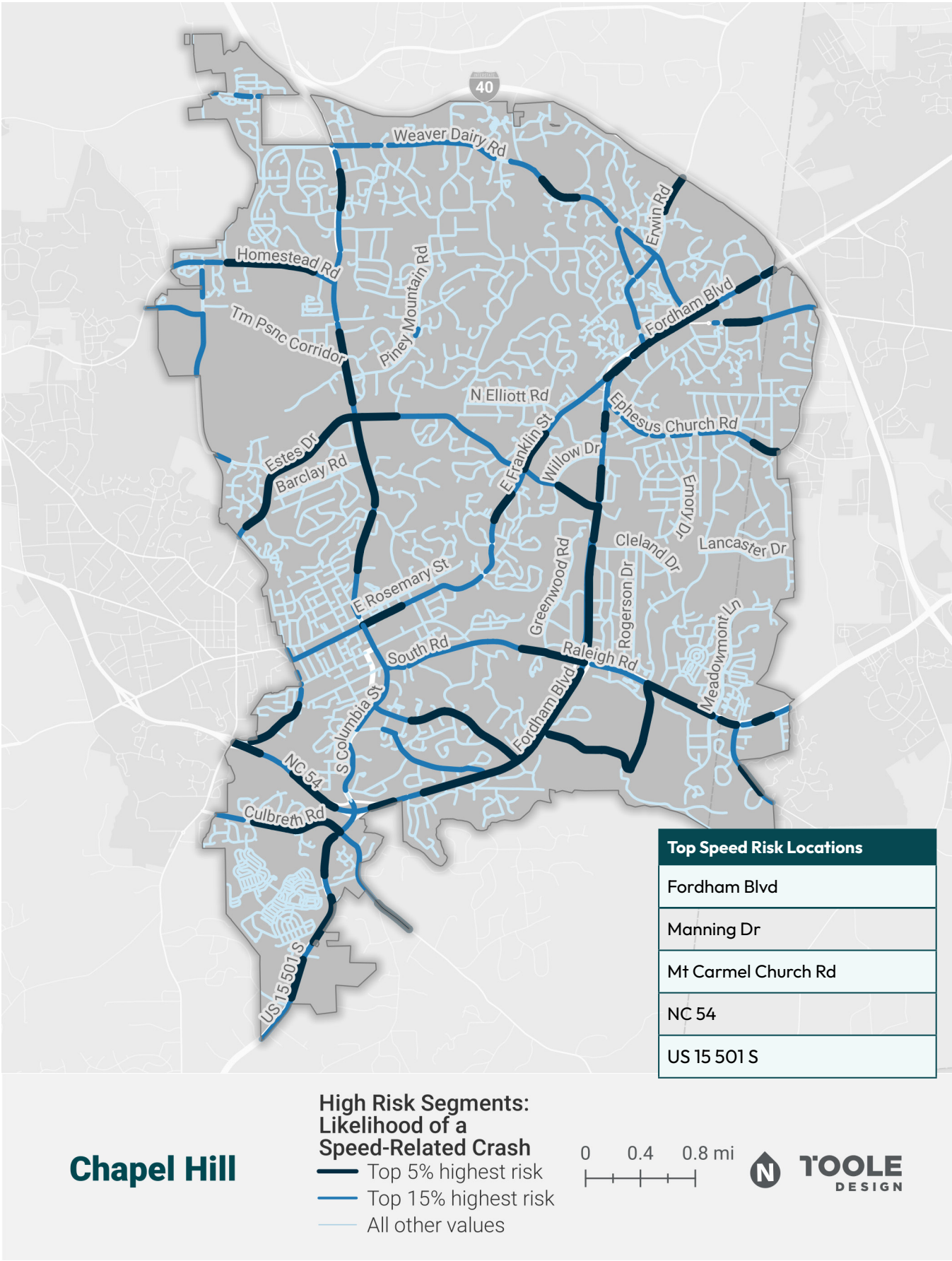
MAP 19 Chapel Hill High Risk Corridors Map: Bicycle Risk



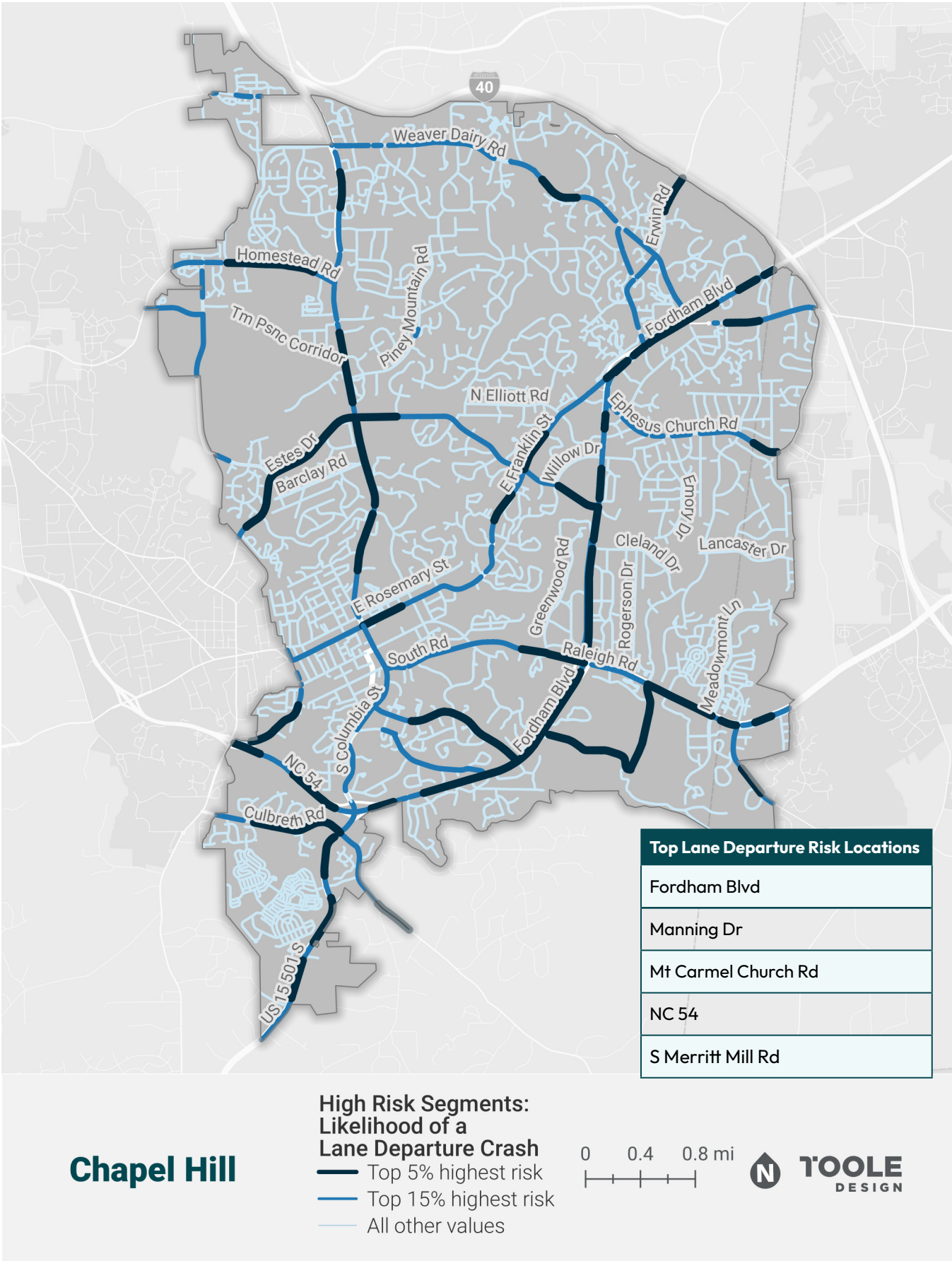
MAP 20 Chapel Hill High Risk Corridors Map: Motorcycle Risk



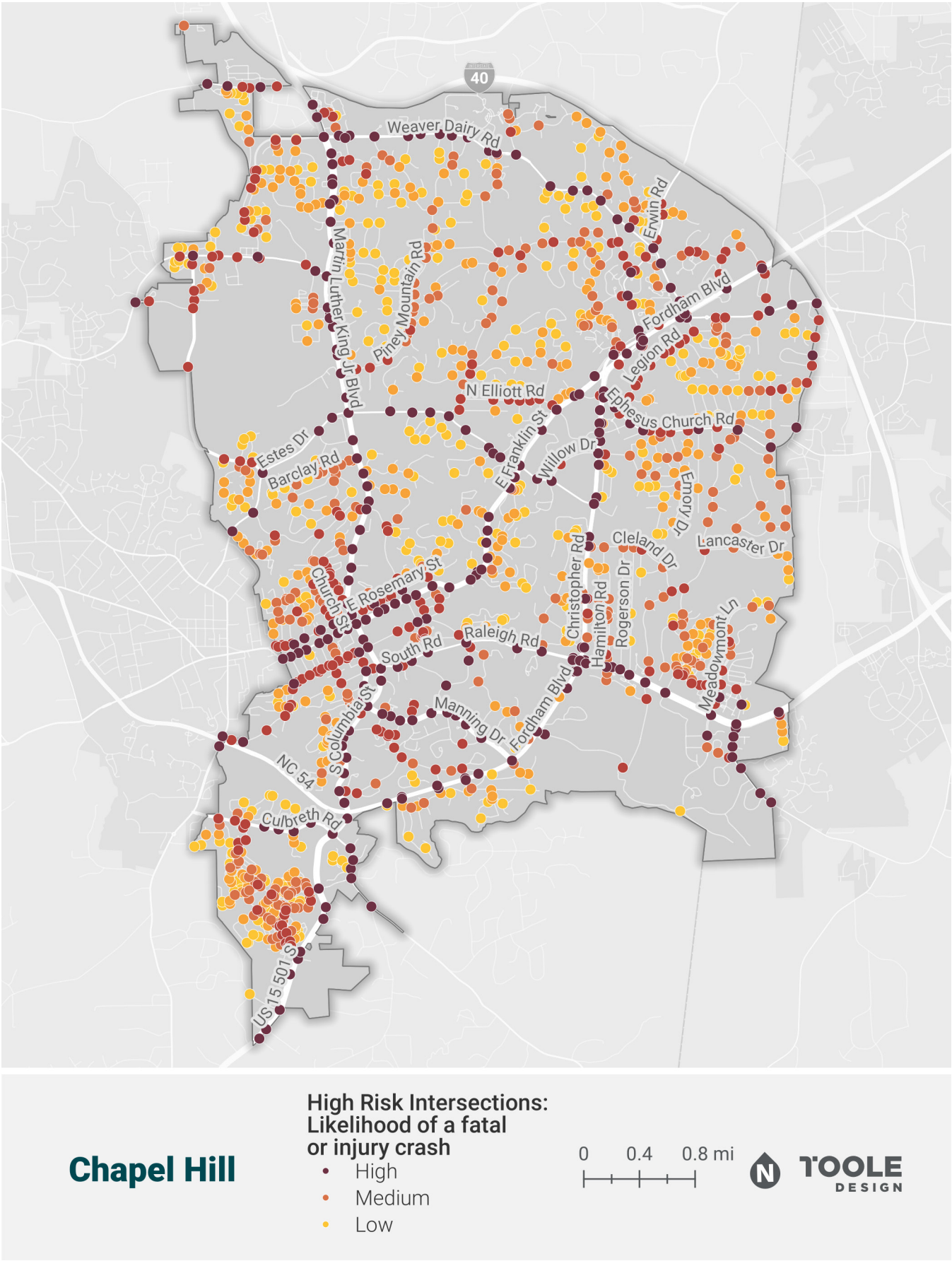
MAP 21 Chapel Hill High Risk Corridors Map: Speed Risk



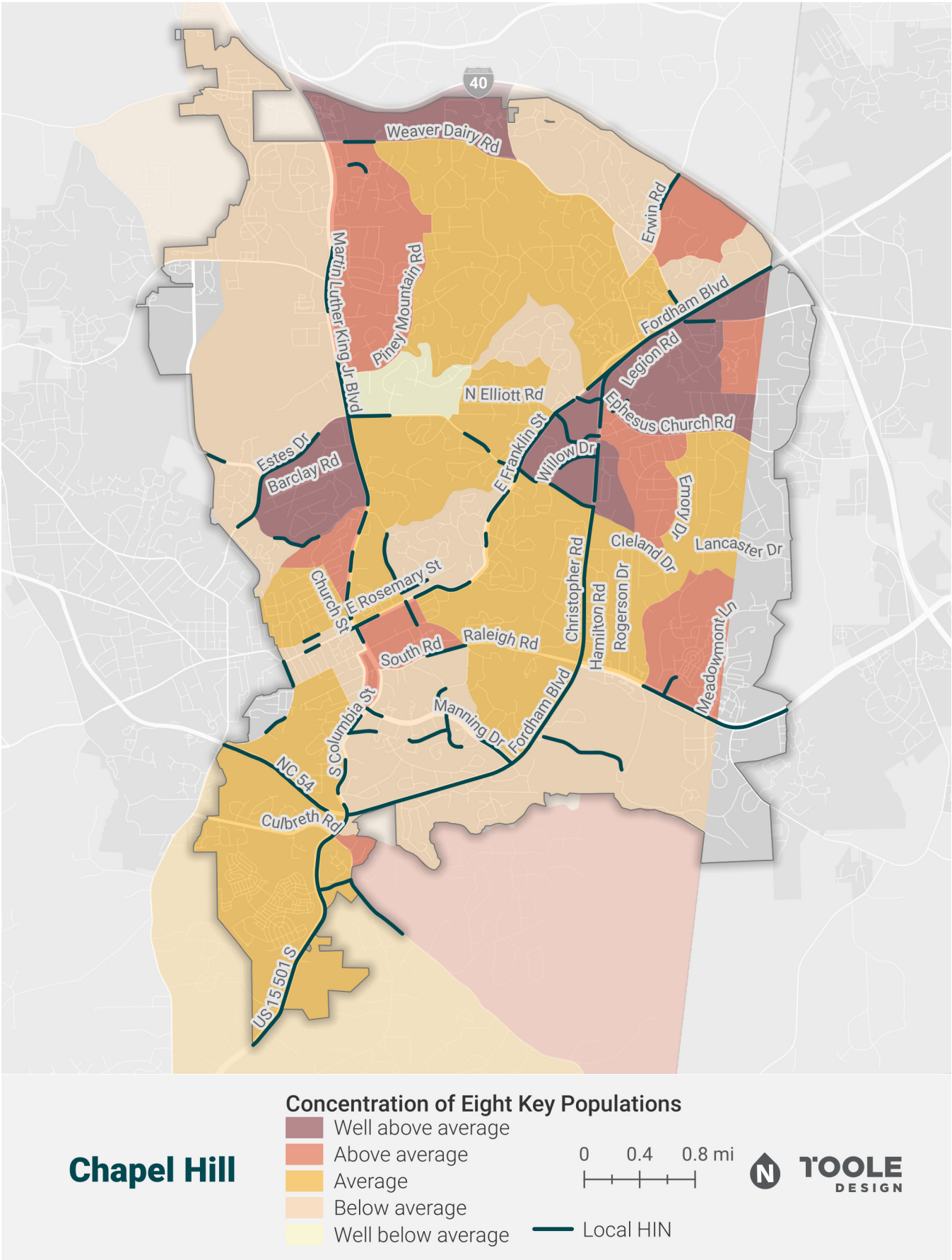
MAP 22 Chapel Hill High Risk Corridors Map: Lane Departure Risk



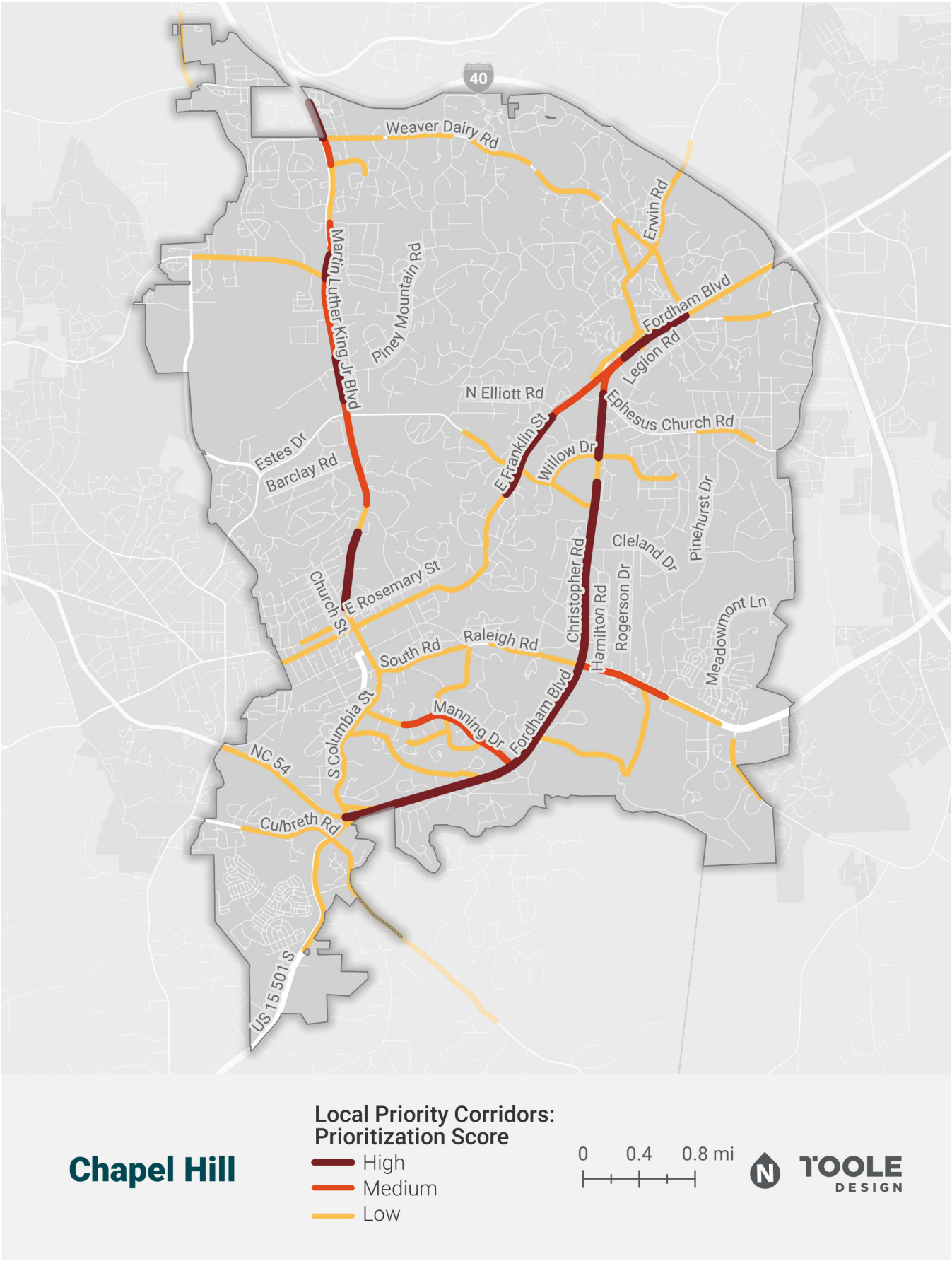
MAP 23 Chapel Hill High Risk Intersections Map



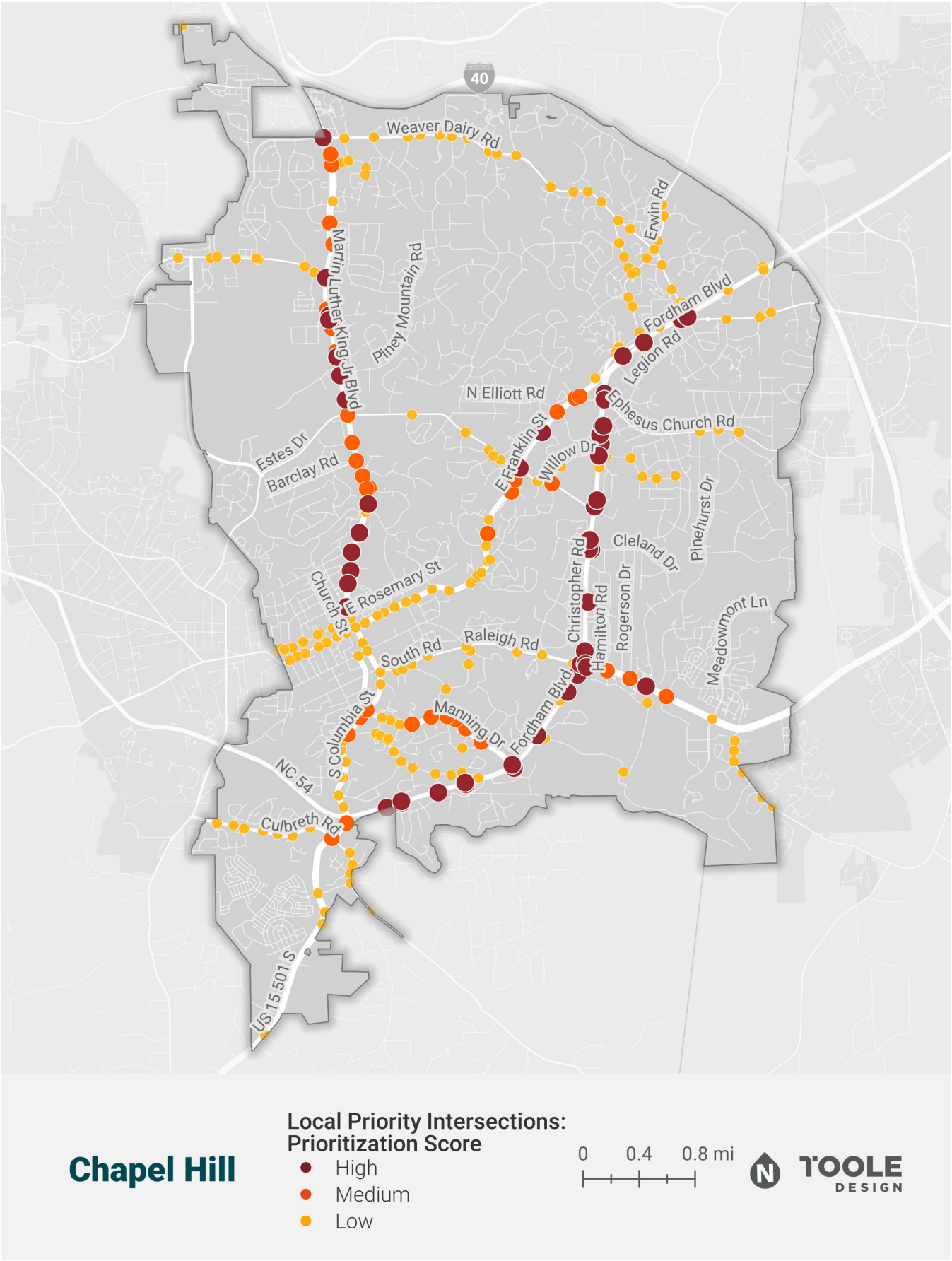
MAP 24 Chapel Hill Indicators of Potential Disadvantage and HIN Map



MAP 25 Chapel Hill Priority Corridors Map



MAP 26 Chapel Hill Priority Intersections Map



City of Durham



Source: City of Durham

Community Data

The following information is provided as a resource for the City of Durham and can be used to support grant applications. Content specific to risk analysis should be used in conjunction with data from the Triangle West TPO Vision Zero Action Plan and is unique to Durham.

Population

270,522 (2020)

Roadway Fatalities and Serious Injuries

- 2017-2023
 - » 174 fatalities
 - » Fatality rate per 100K: 9.19
 - » 390 serious injuries
- 2018-2022
 - » 119 fatalities
 - » Fatality rate per 100K: 8.80
 - » 314 serious injuries

High Injury Network Coverage

10.02% of roadway miles cover 74% of fatal and serious injury crashes (2017-2023)

Risk Analysis Thresholds

The following provides information related to the data for each community and applicable attributes.

Pedestrian Risk

- Top 5% = “prob_ped” > 0.25
- Top 15% = “prob_ped” > 0.09 and < 0.25

Bicycle Risk

- Top 5% = “prob_bike” > 0.08
- Top 15% = “prob_bike” > 0.03 and < 0.08

Motorcycle Risk

- Top 5% = “prob_MC” > 0.17
- Top 15% = “prob_MC” > 0.05 and < 0.17

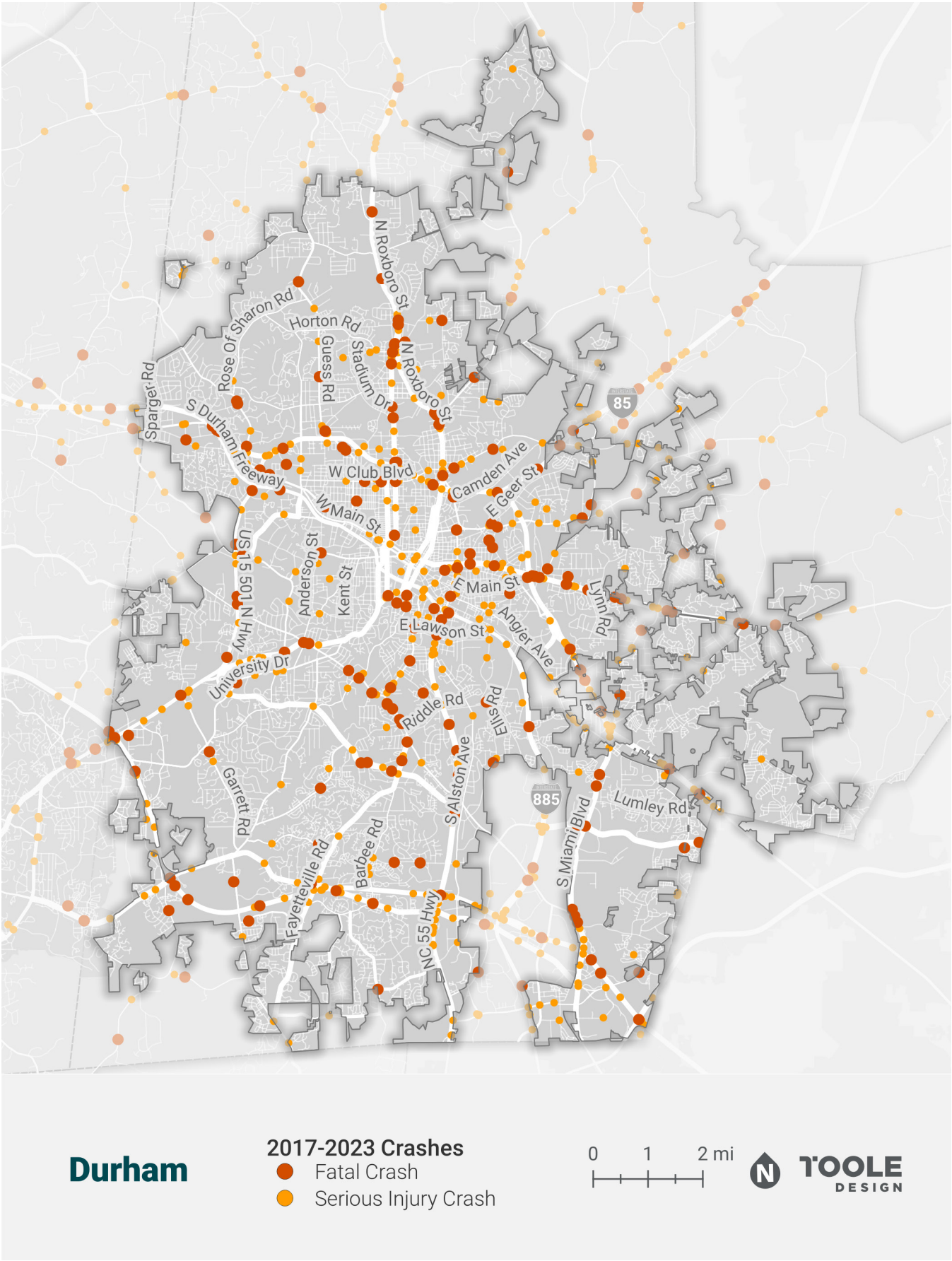
Speed Risk

- Top 5% = “prob_speed” > 0.30
- Top 15% = “prob_speed” > 0.09 and < 0.30

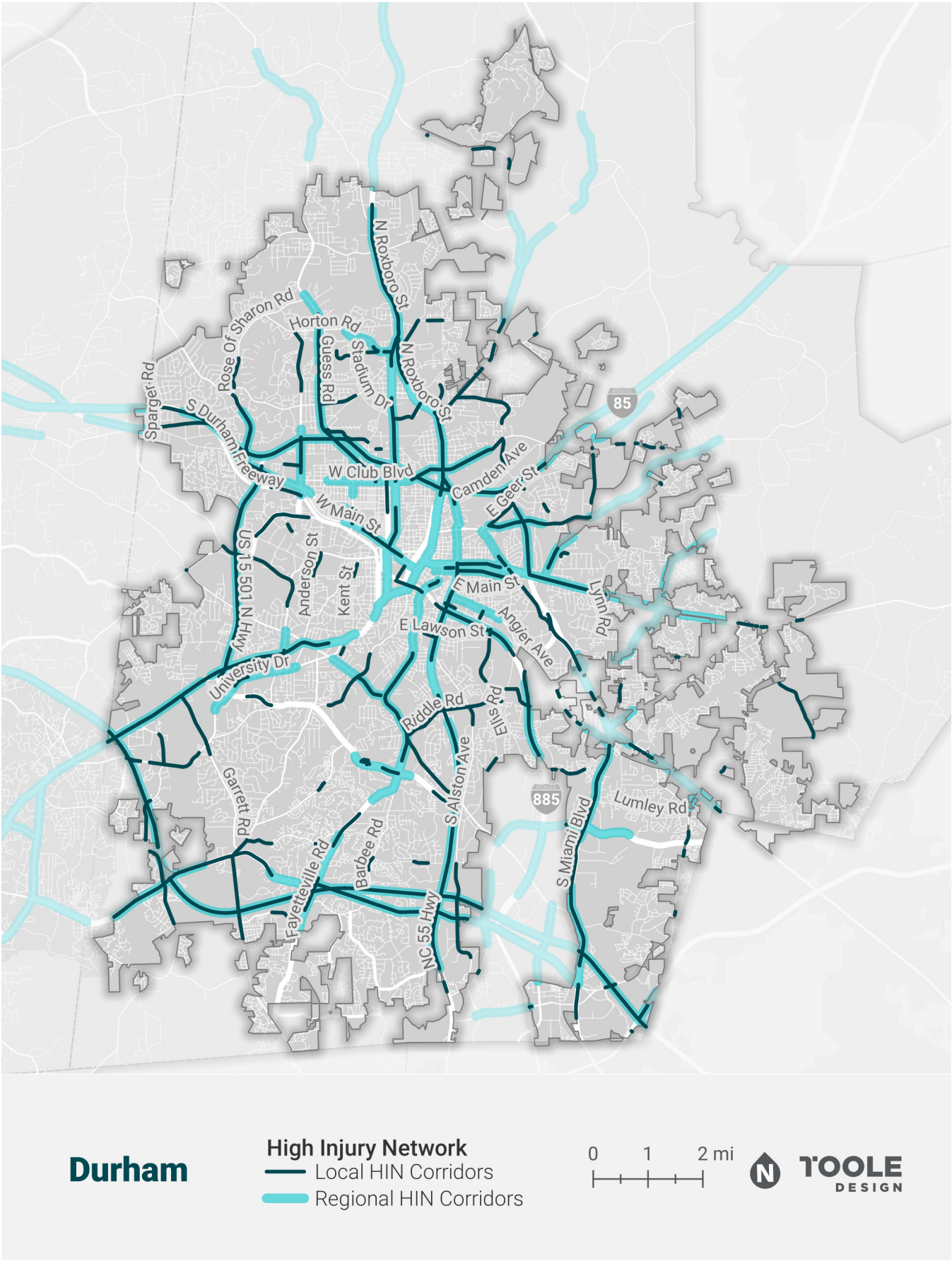
Lane Departure Risk

- Top 5% = “prob_LD” > 0.54
- Top 15% = “prob_LD” > 0.21 and < 0.54

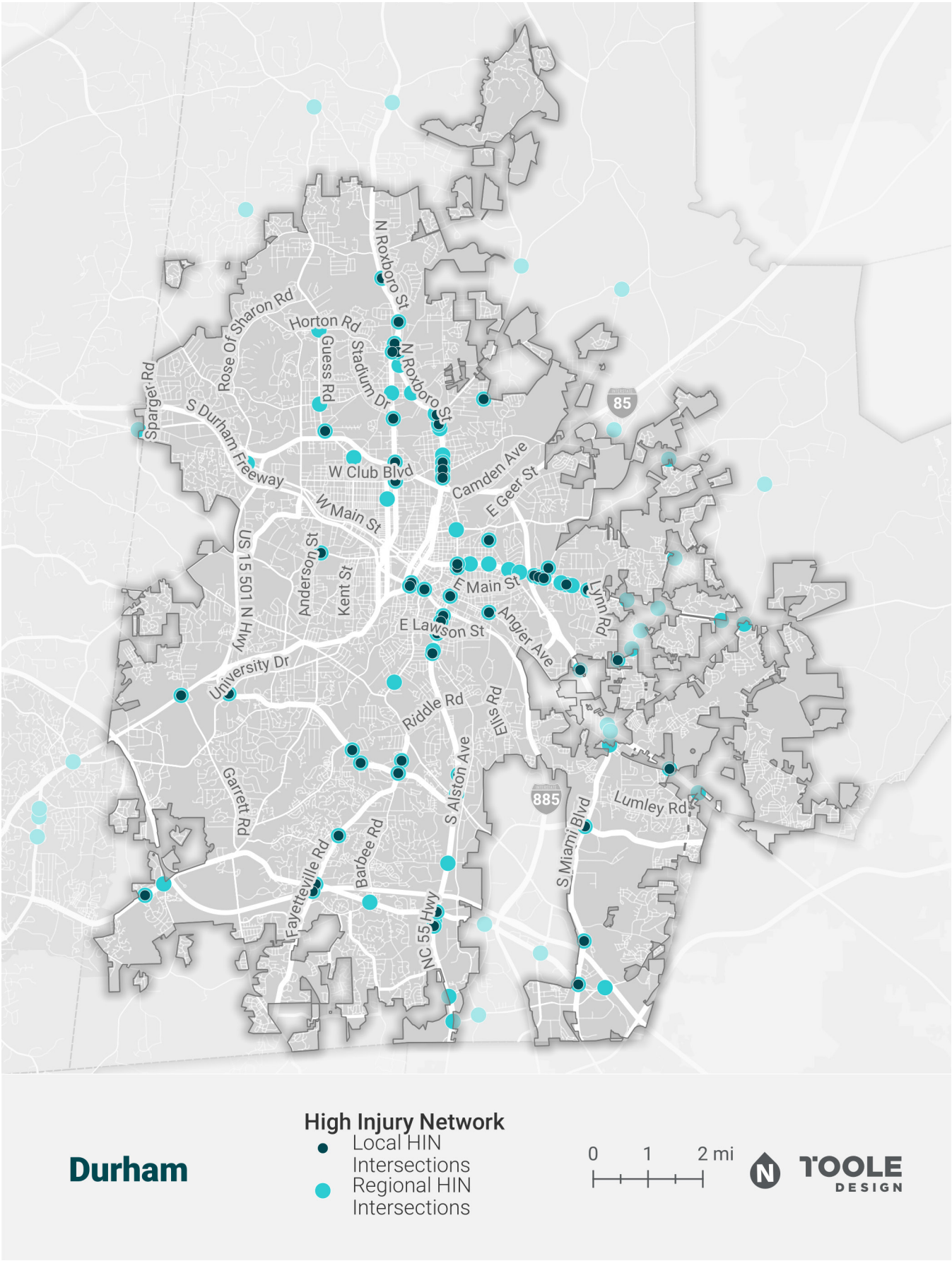
MAP 27 City of Durham Crash Map



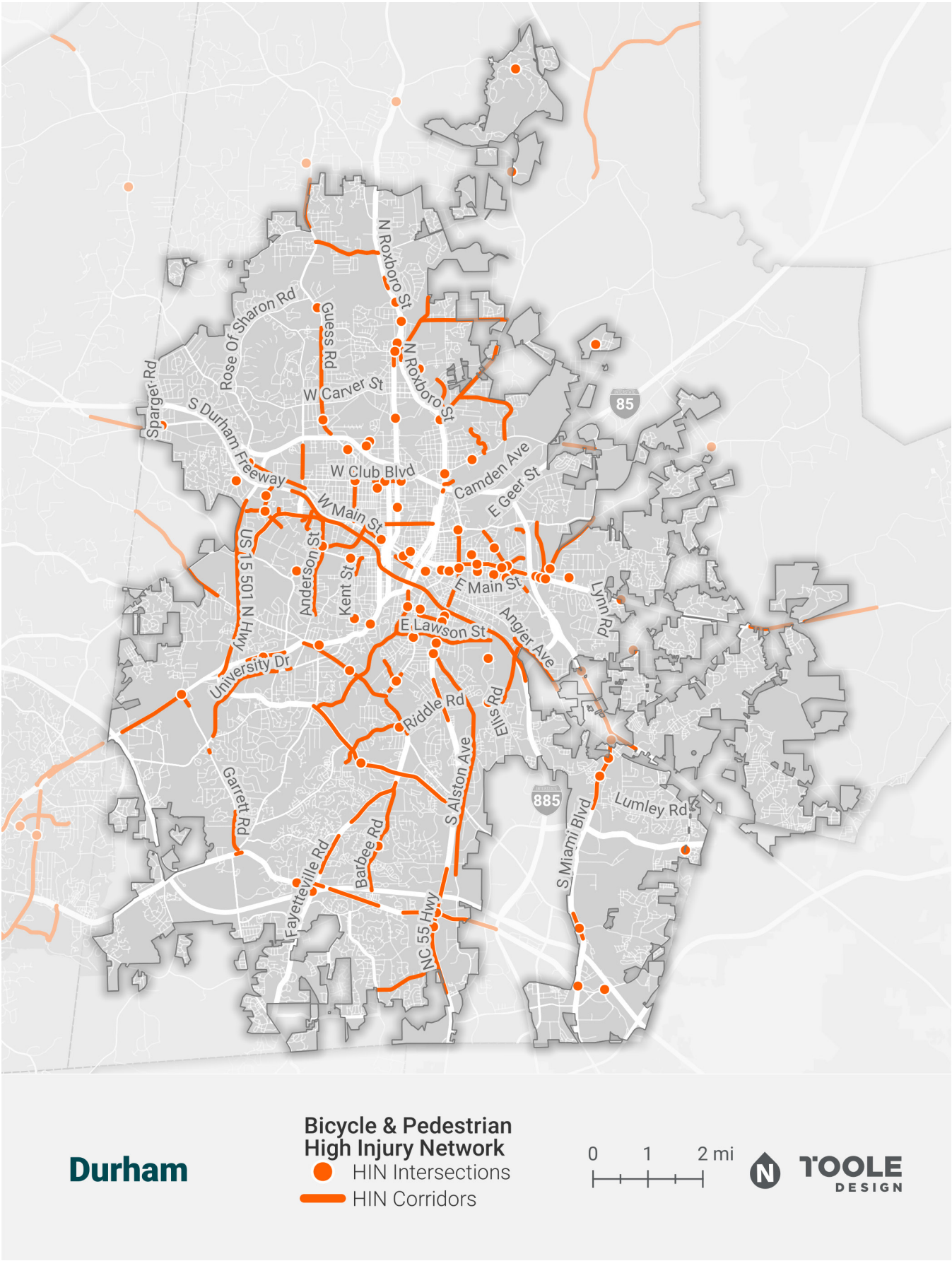
MAP 28 City of Durham High Injury Network Map



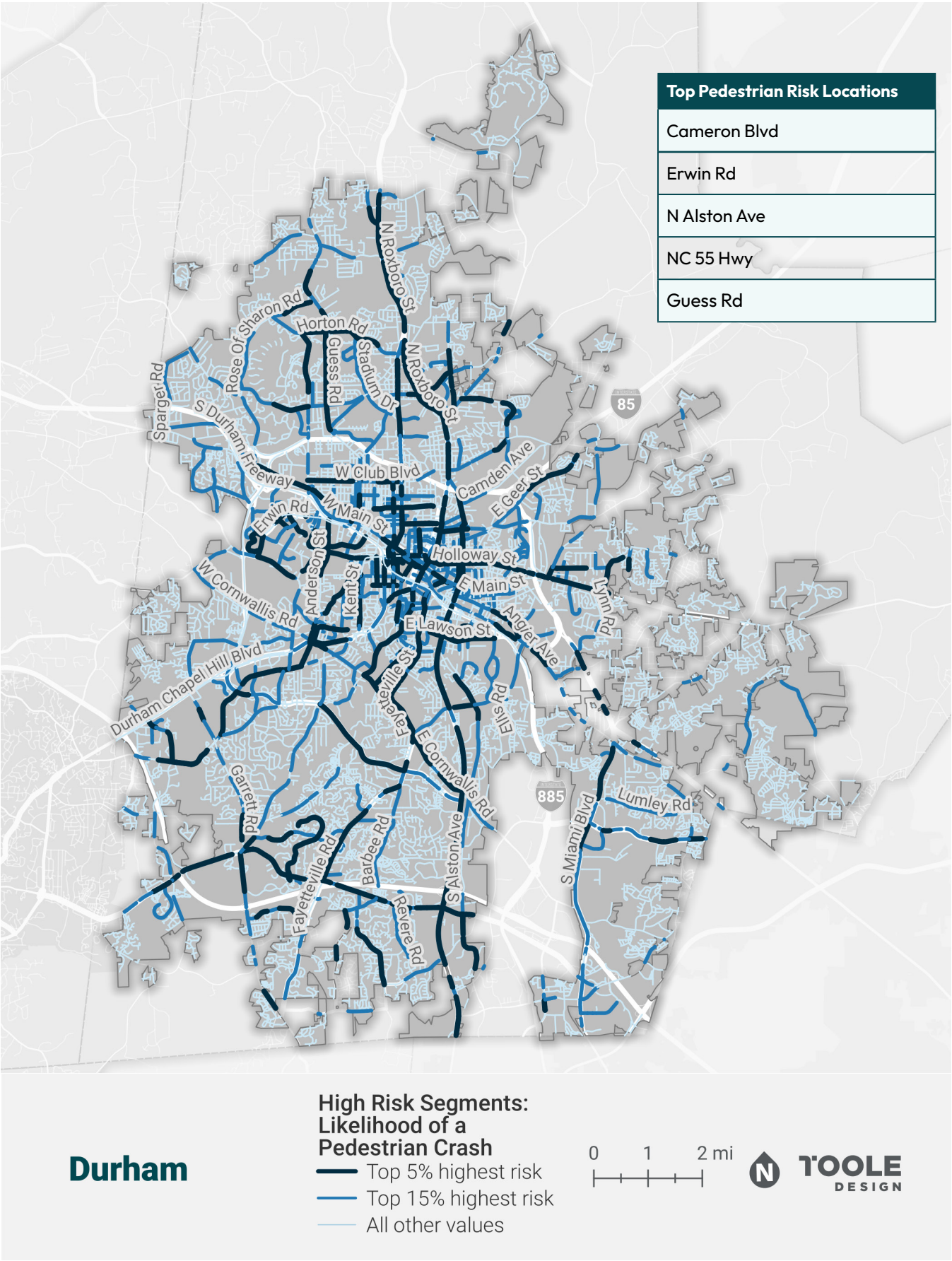
MAP 29 City of Durham High Injury Intersections Map



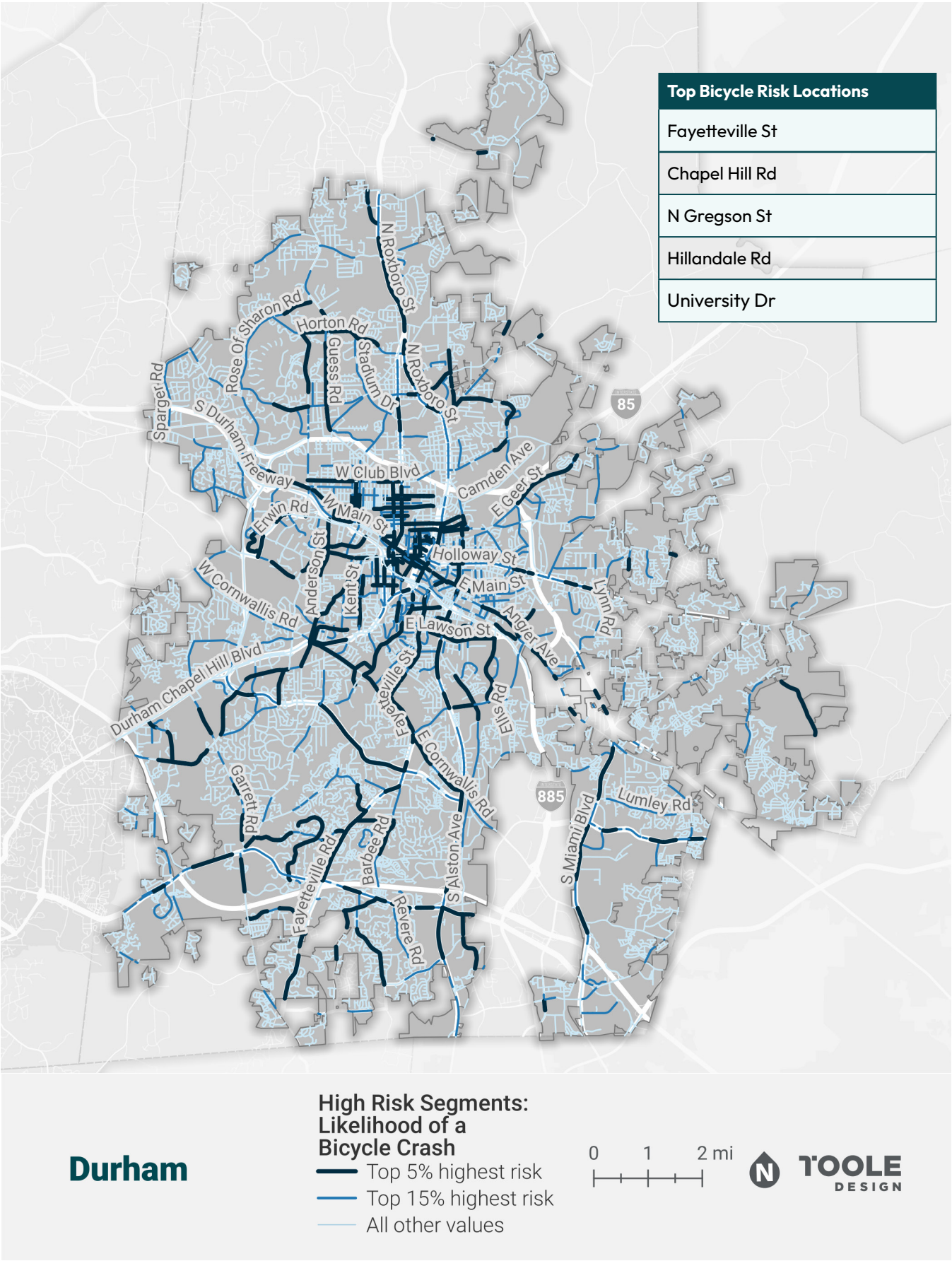
MAP 30 City of Durham VRU High Injury Corridors and Intersections Map



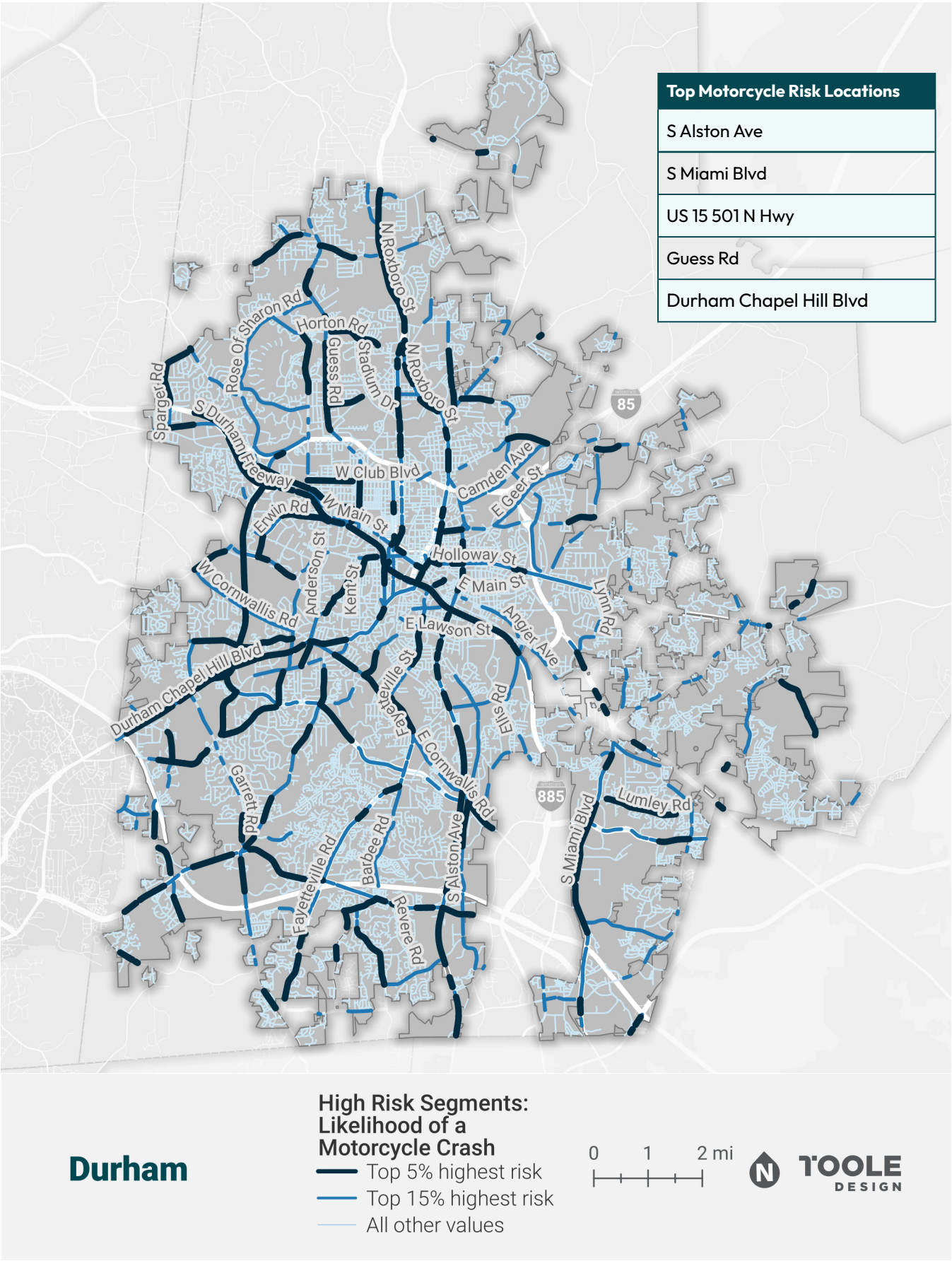
MAP 31 City of Durham High Risk Corridors Map: Pedestrian Risk



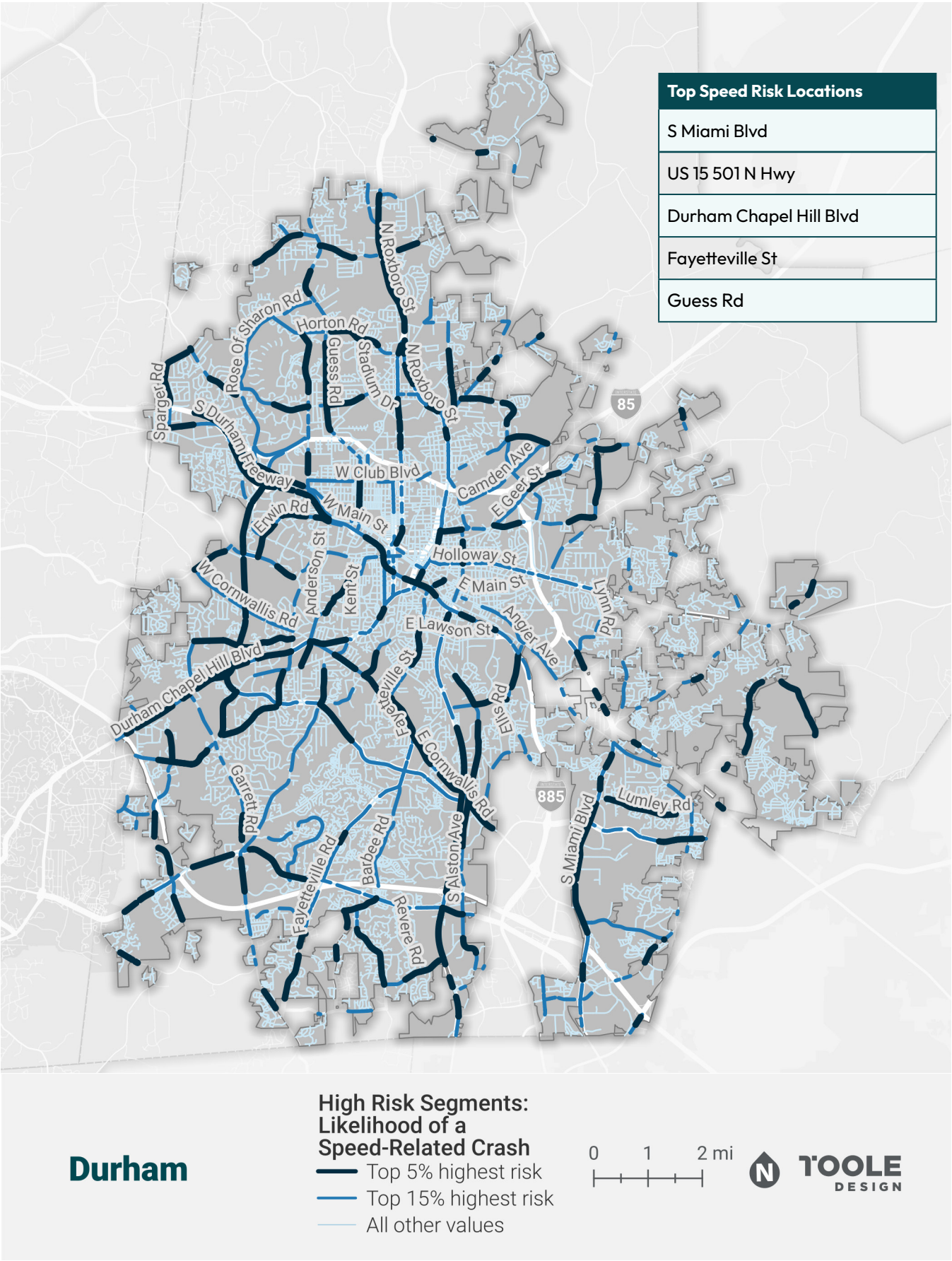
MAP 32 City of Durham High Risk Corridors Map: Bicycle Risk



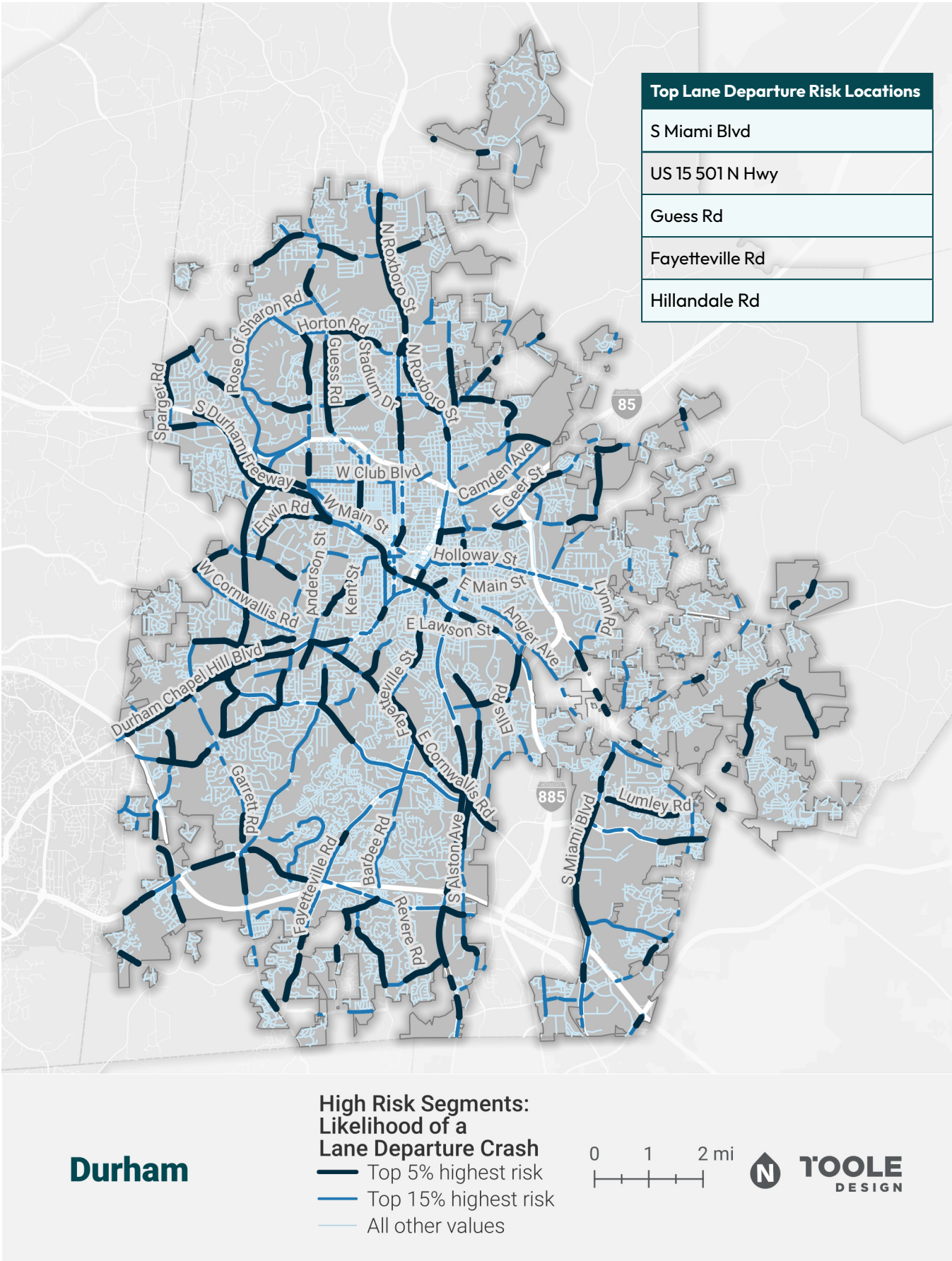
MAP 33 City of Durham High Risk Corridors Map: Motorcycle Risk



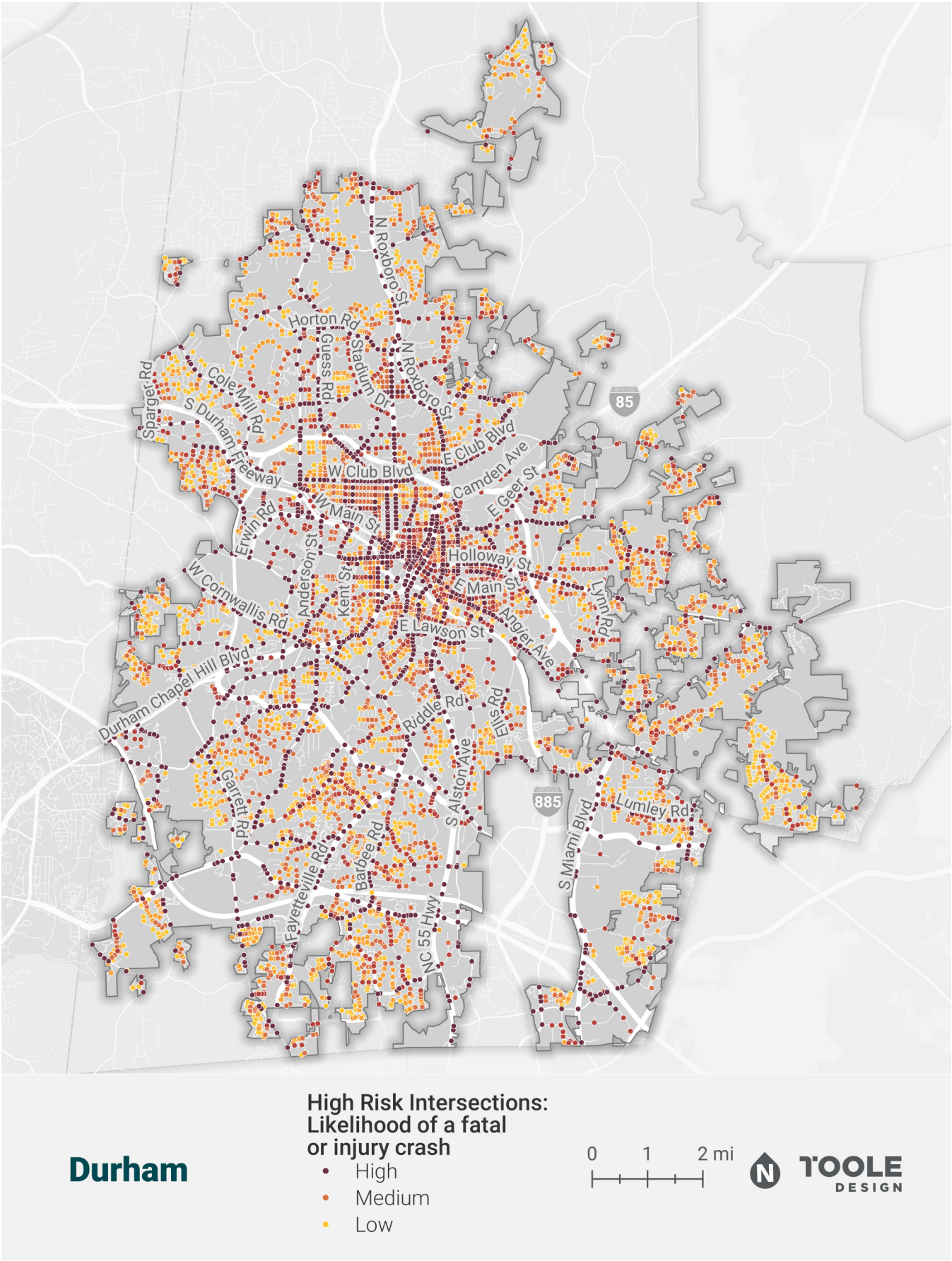
MAP 34 City of Durham High Risk Corridors Map: Speed Risk



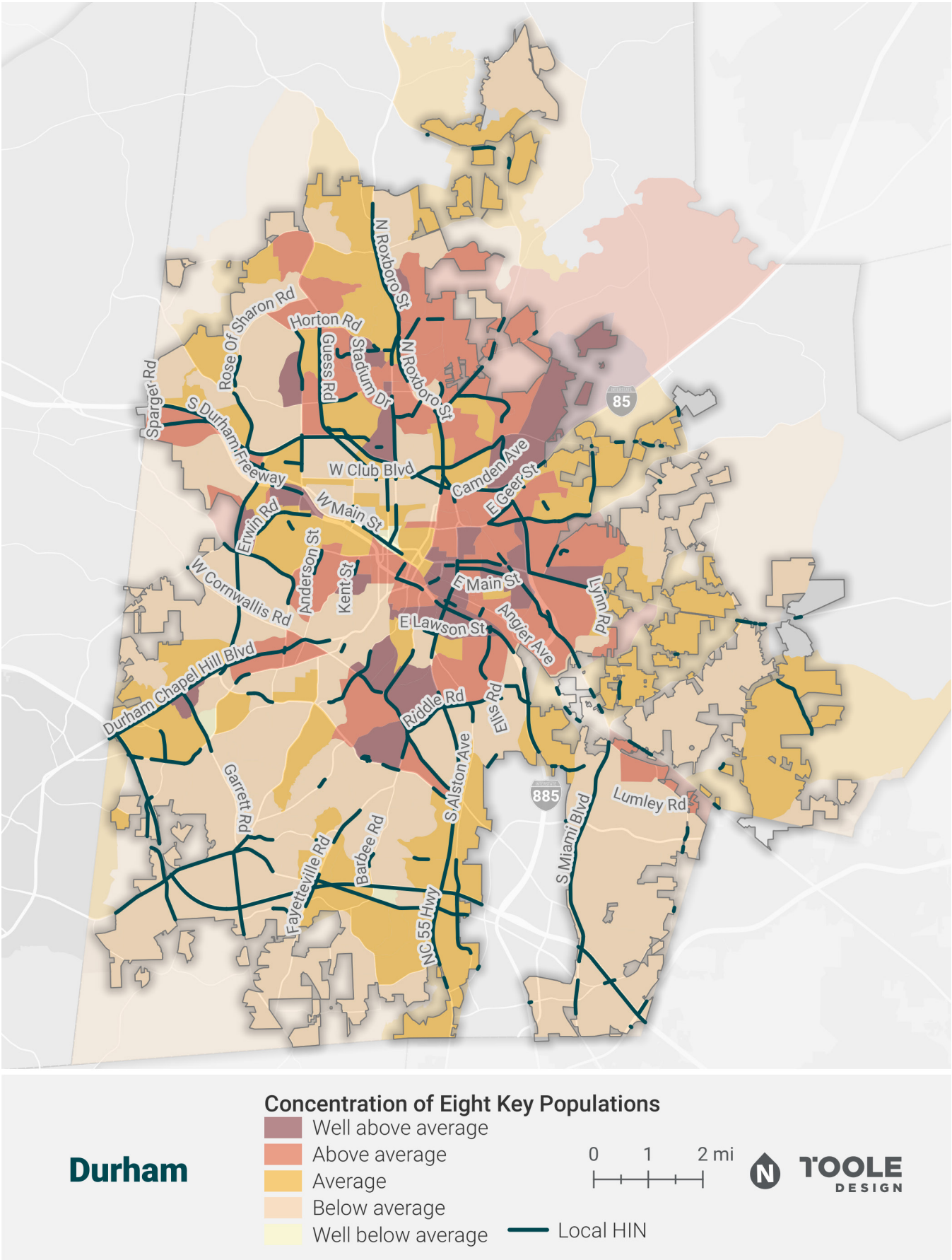
MAP 35 City of Durham High Risk Corridors Map: Lane Departure Risk



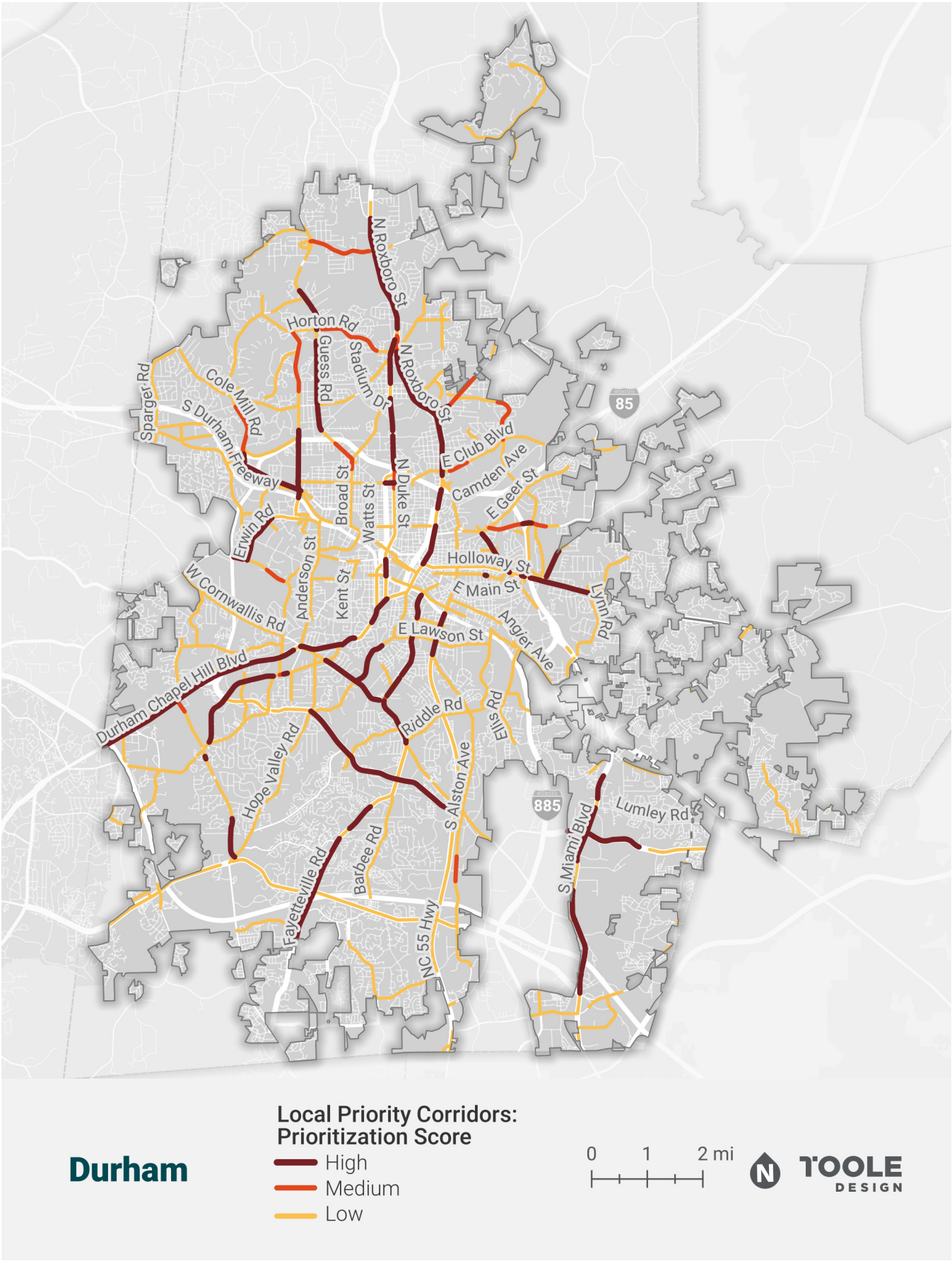
MAP 36 City of Durham High Risk Intersections Map



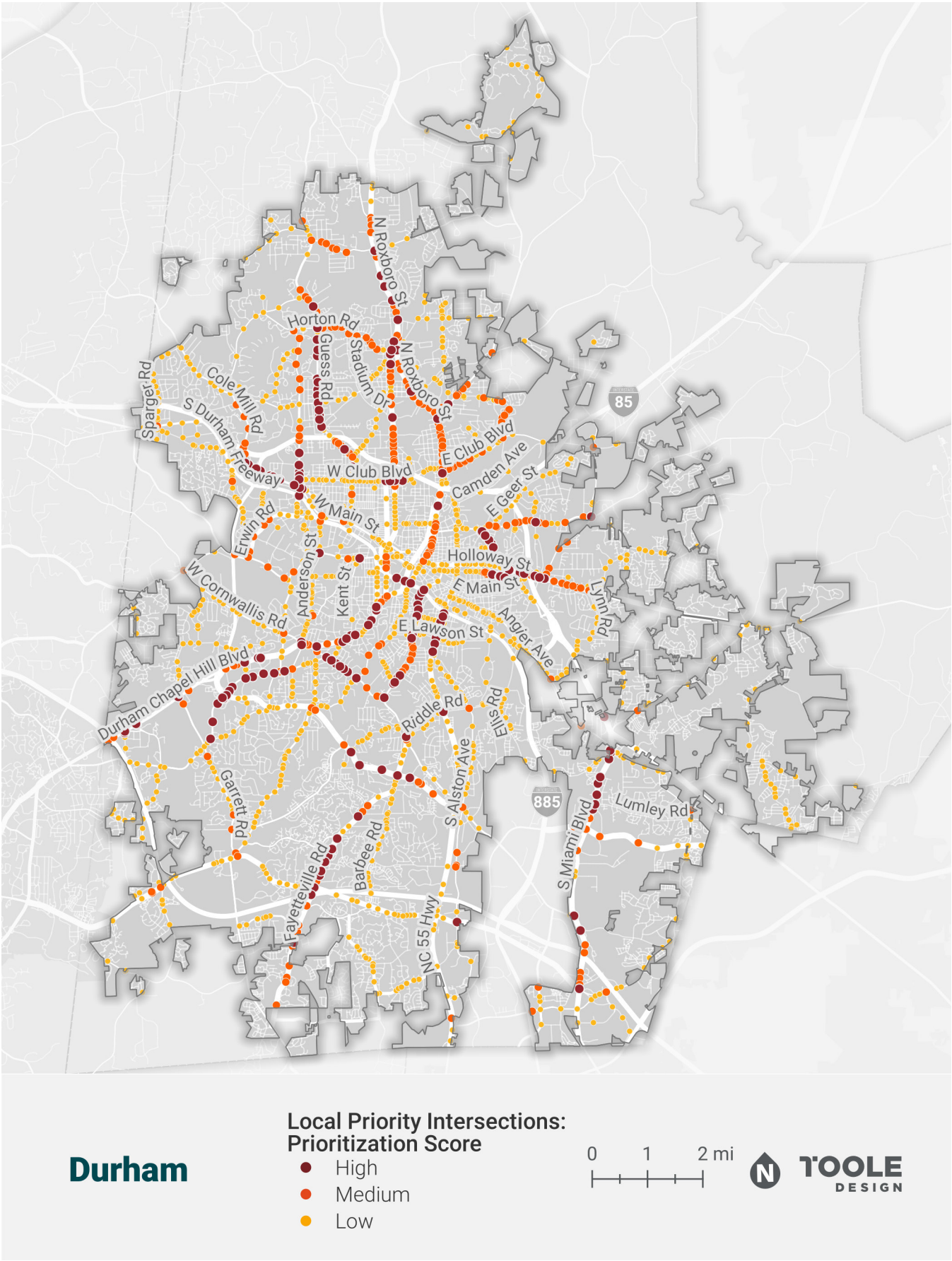
MAP 37 City of Durham Indicators of Potential Disadvantage and HIN Map



MAP 38 City of Durham Priority Corridors Map



MAP 39 City of Durham Priority Intersections Map



Town of Hillsborough

TOWN OF
HILLSBOROUGH
IMAGE
PLACEHOLDER

Source: Town of Hillsborough

Community Data

The following information is provided as a resource for the Town of Hillsborough and can be used to support grant applications. Content specific to risk analysis should be used in conjunction with data from the Triangle West TPO Vision Zero Action Plan and is unique to Hillsborough.

Population

9,143 (2020)

Roadway Fatalities and Serious Injuries

- 2017-2023
 - » 1 fatality
 - » Fatality rate per 100K: 1.56
 - » 4 serious injuries
- 2018-2022
 - » 1 fatality
 - » Fatality rate per 100K: 2.19
 - » 4 serious injuries

High Injury Network Coverage

16.12% of roadway miles cover 100% of fatal and serious injury crashes (2017-2023)

Risk Analysis Thresholds

The following provides information related to the data for each community and applicable attributes.

Pedestrian Risk

- Top 5% = “prob_ped” > 0.07
- Top 15% = “prob_ped” > 0.02 and < 0.07

Bicycle Risk

- Top 5% = “prob_bike” > 0.06
- Top 15% = “prob_bike” > 0.02 and < 0.06

Motorcycle Risk

- Top 5% = “prob_MC” > 0.06
- Top 15% = “prob_MC” > 0.02 and < 0.06

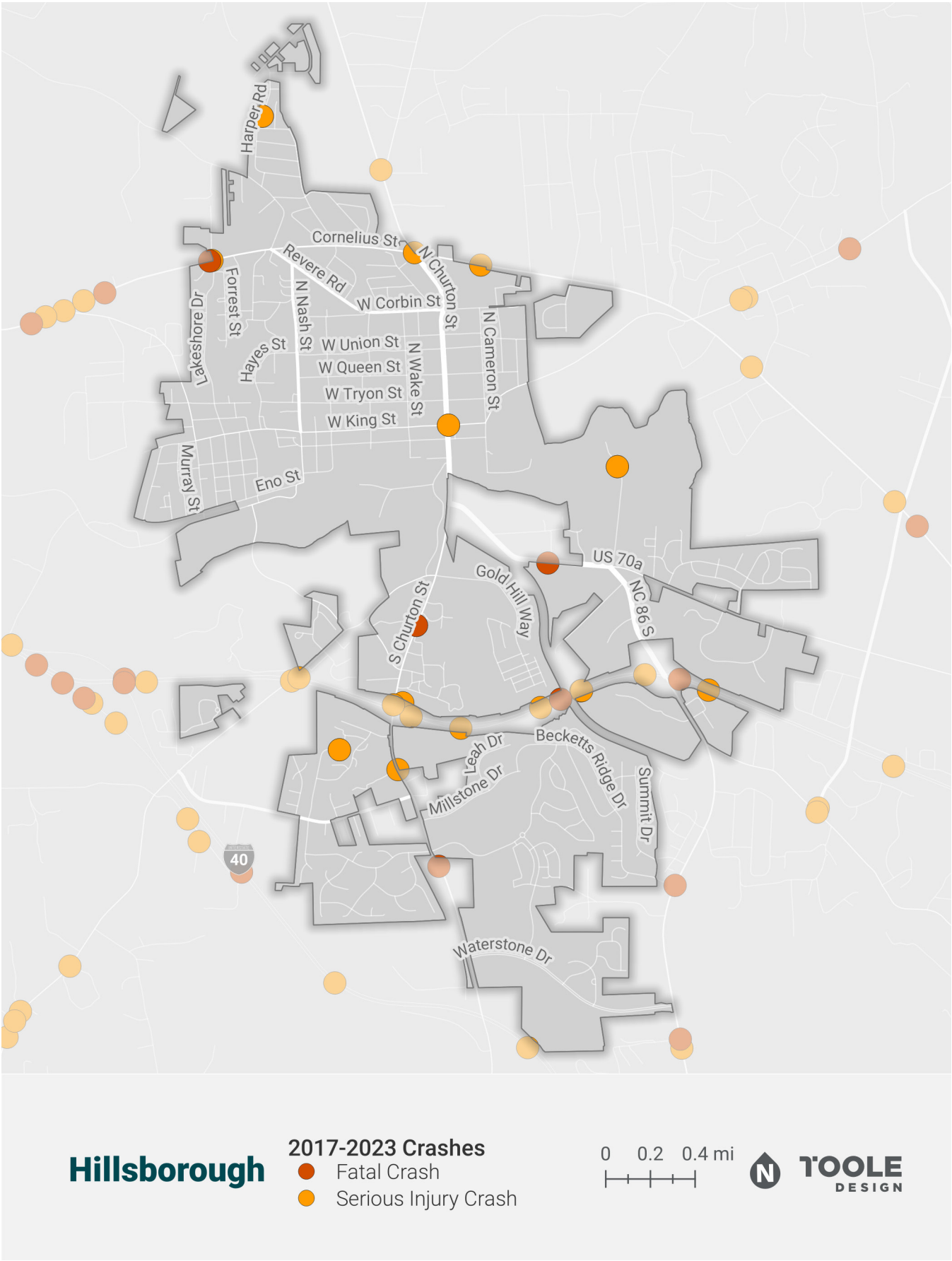
Speed Risk

- Top 5% = “prob_speed” > 0.15
- Top 15% = “prob_speed” > 0.03 and < 0.15

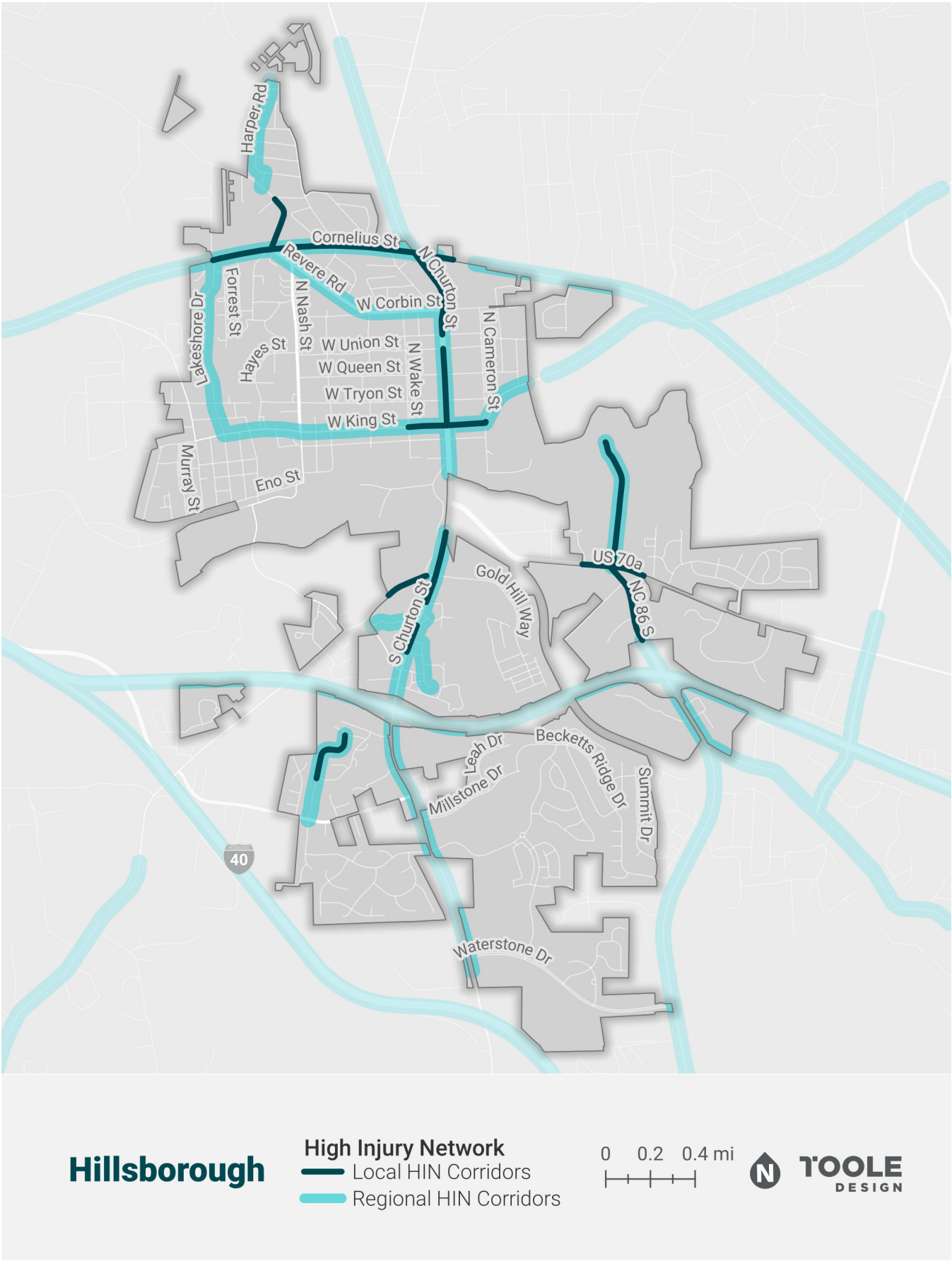
Lane Departure Risk

- Top 5% = “prob_LD” > 0.37
- Top 15% = “prob_LD” > 0.09 and < 0.37

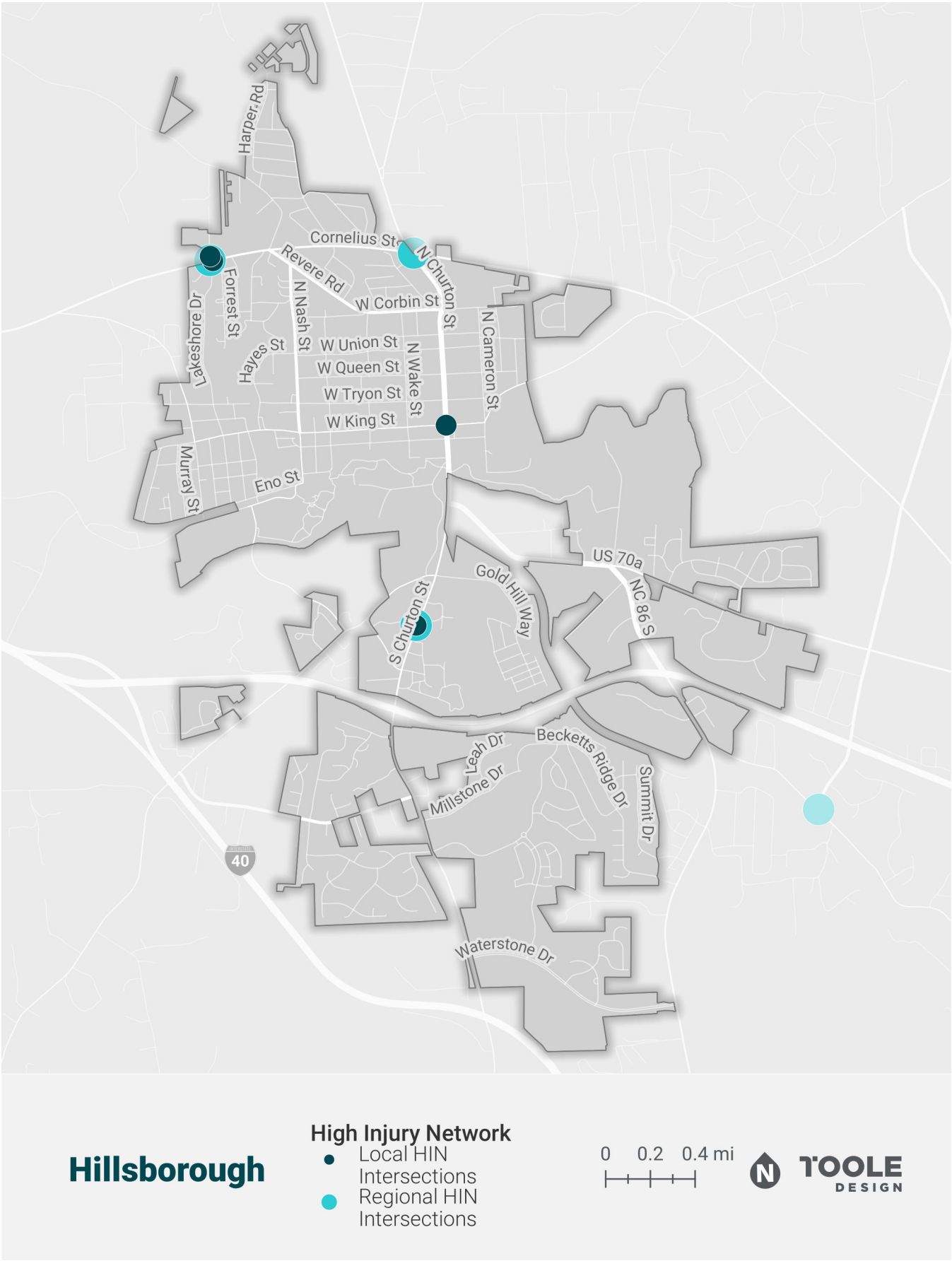
MAP 40 Town of Hillsborough Crash Map



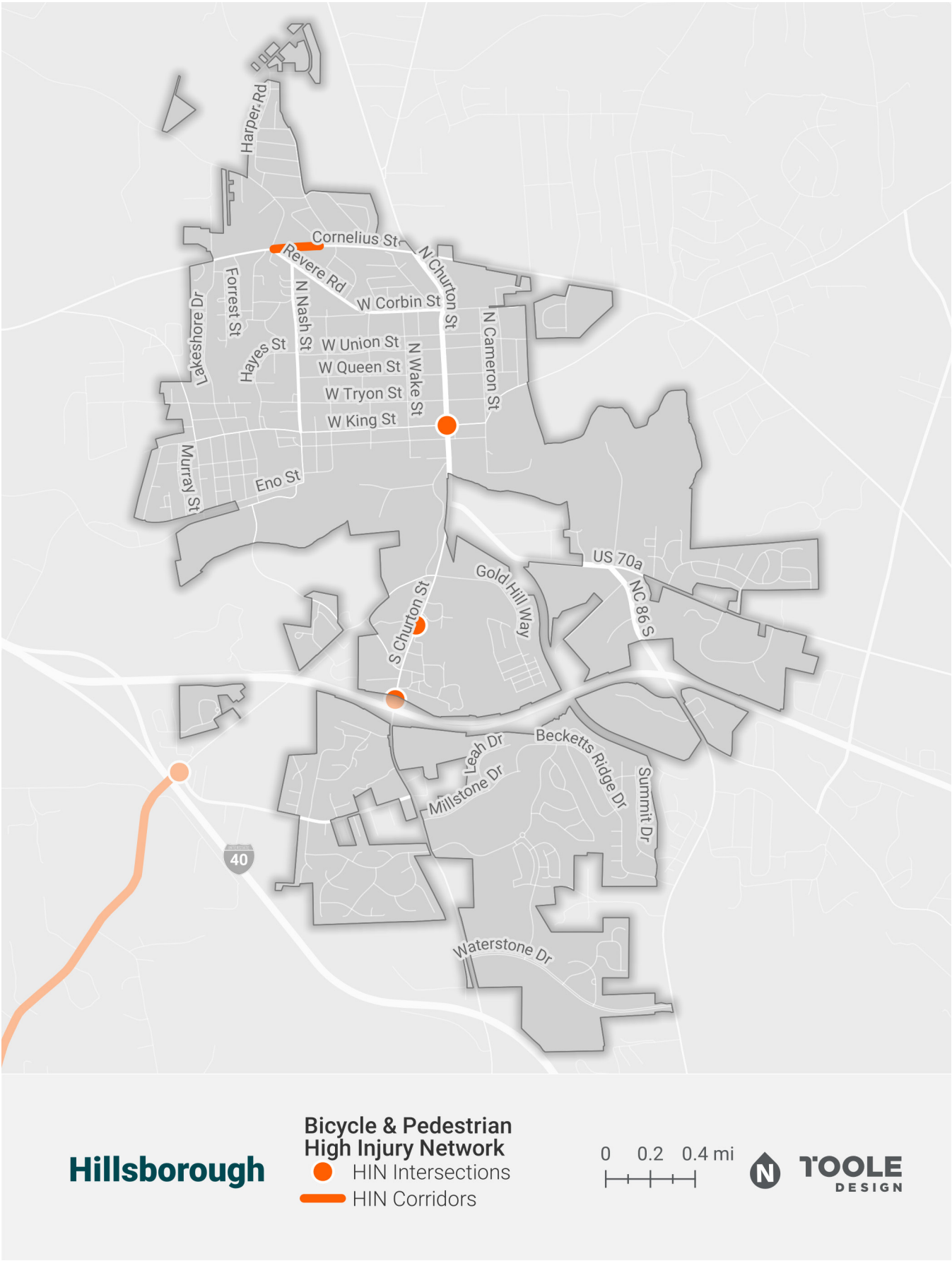
MAP 41 Town of Hillsborough High Injury Network Map



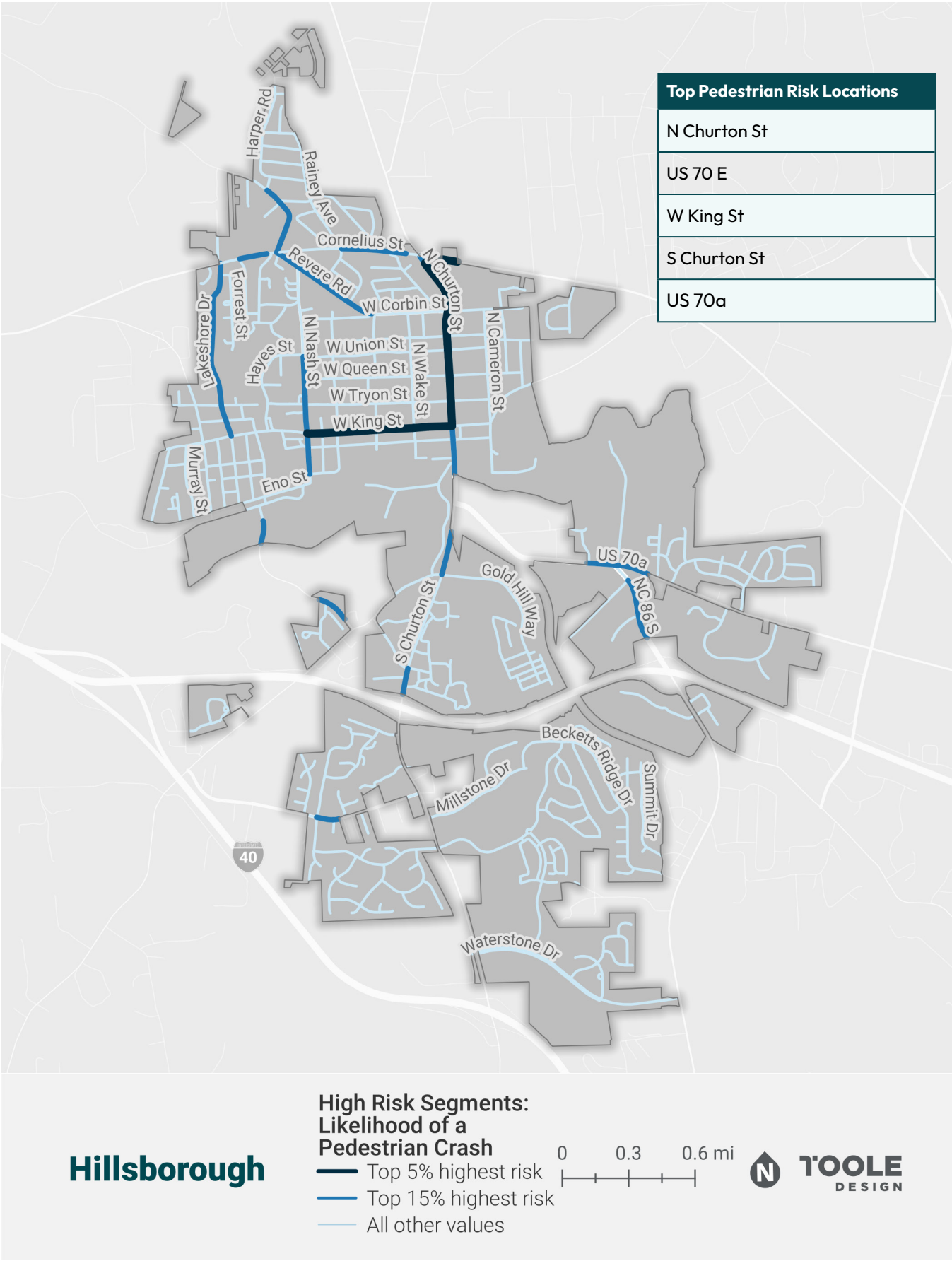
MAP 42 Town of Hillsborough High Injury Intersections Map



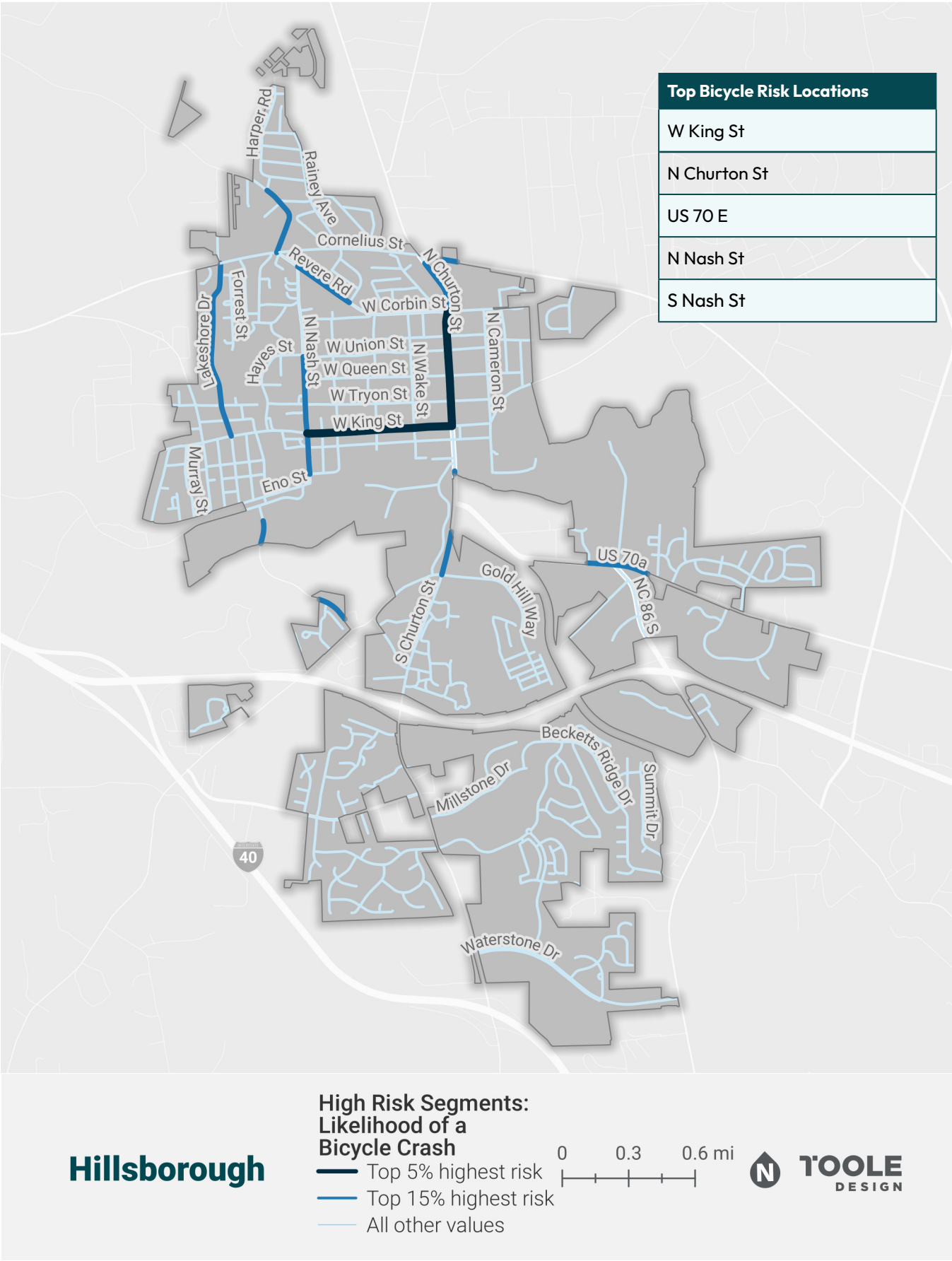
MAP 43 Town of Hillsborough VRU High Injury Corridors and Intersections Map



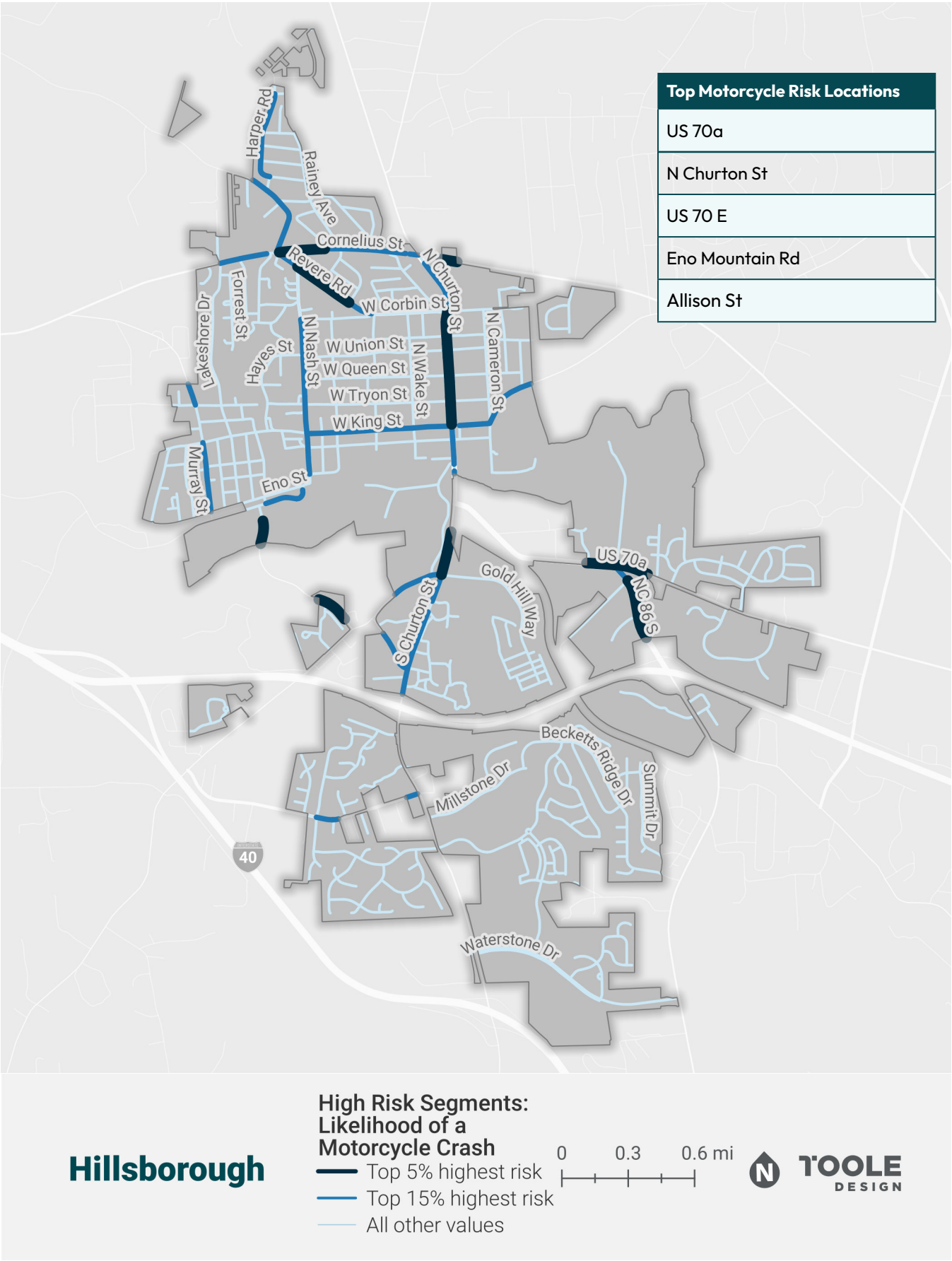
MAP 44 Town of Hillsborough High Risk Corridors Map: Pedestrian Risk



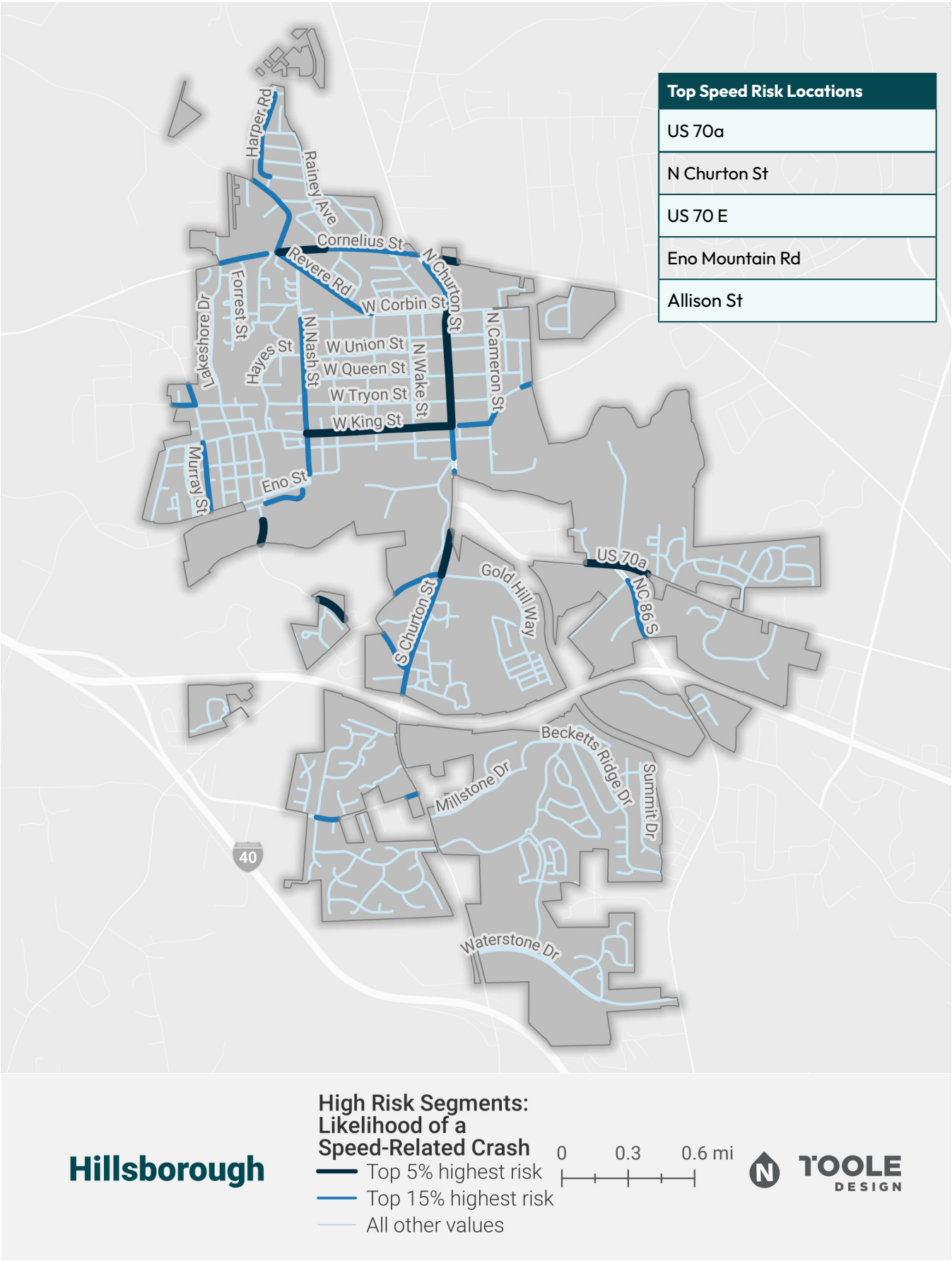
MAP 45 Town of Hillsborough High Risk Corridors Map: Bicycle Risk



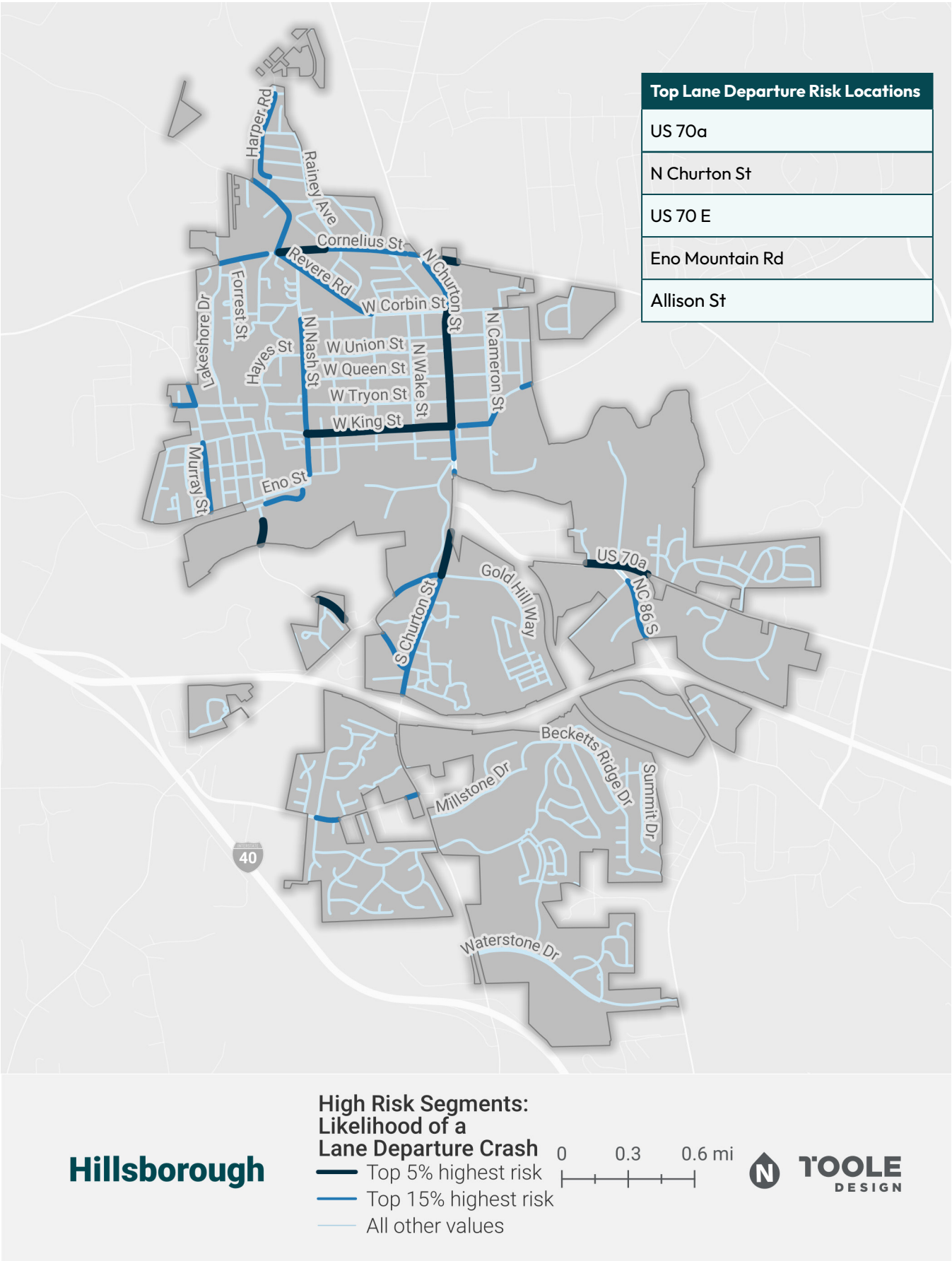
MAP 46 Town of Hillsborough High Risk Corridors Map: Motorcycle Risk



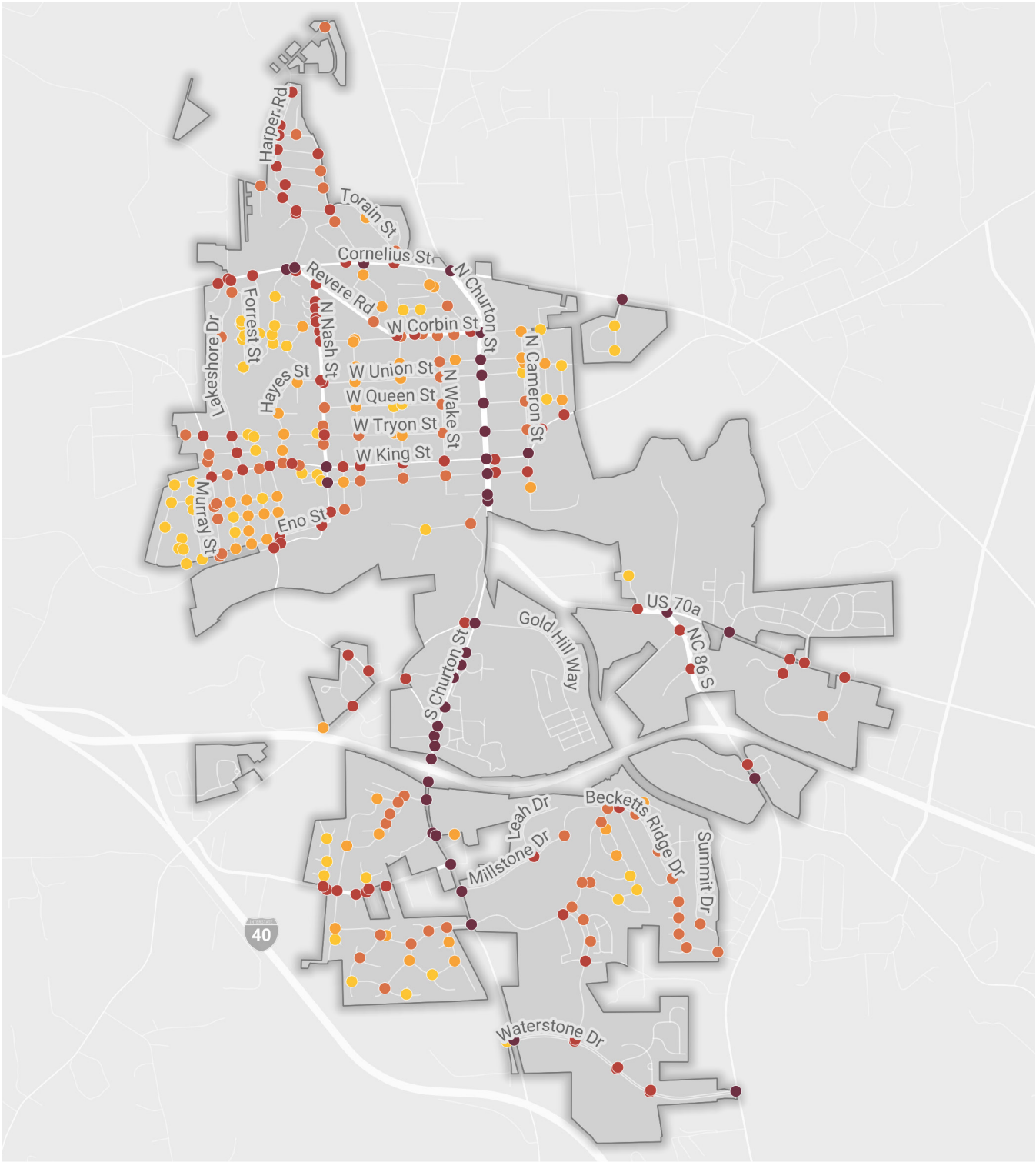
MAP 47 Town of Hillsborough High Risk Corridors Map: Speed Risk



MAP 48 Town of Hillsborough High Risk Corridors Map: Lane Departure Risk



MAP 49 Town of Hillsborough High Risk Intersections Map



Hillsborough

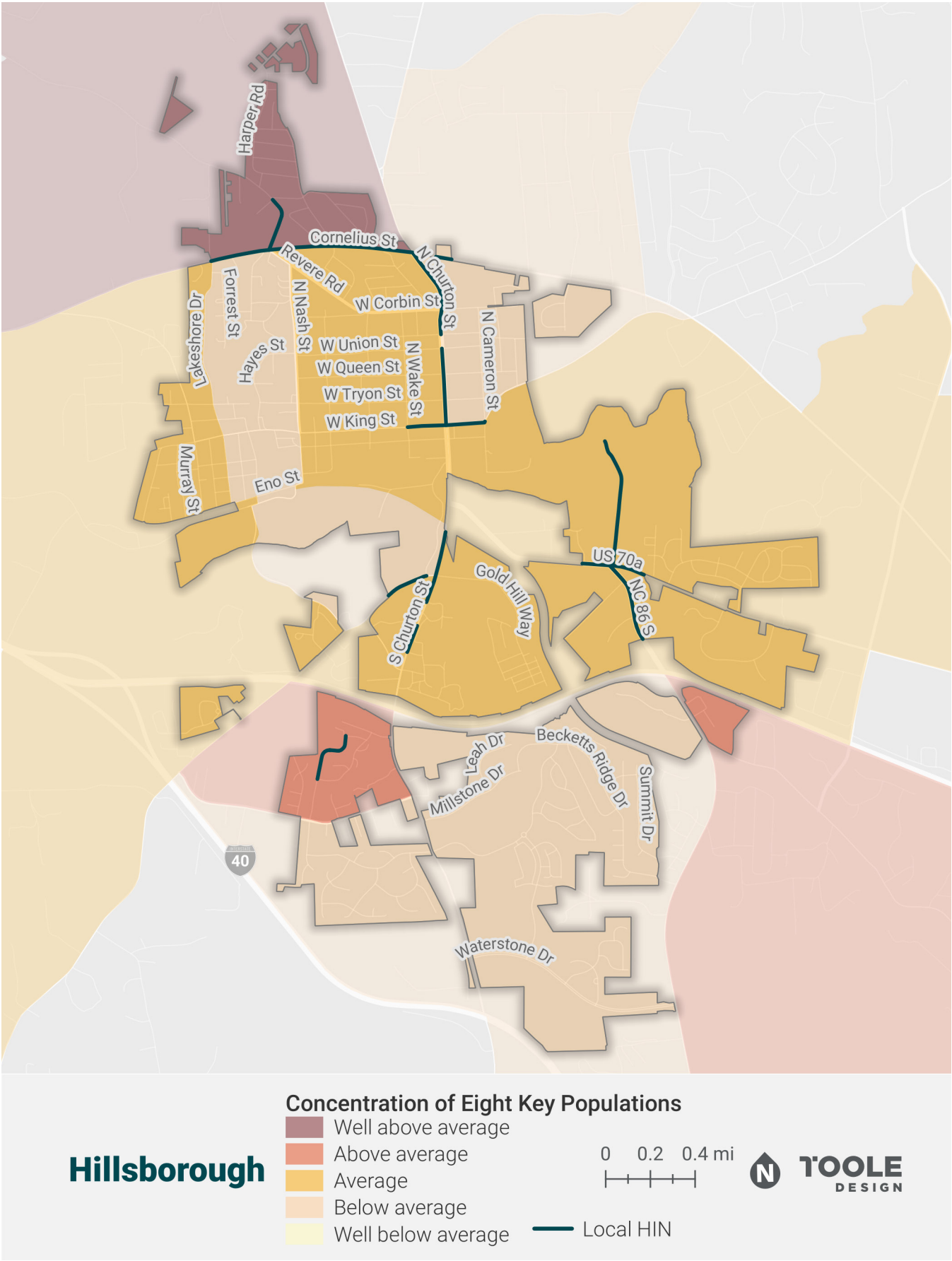
**High Risk Intersections:
Likelihood of a fatal
or injury crash**

- High
- Medium
- Low

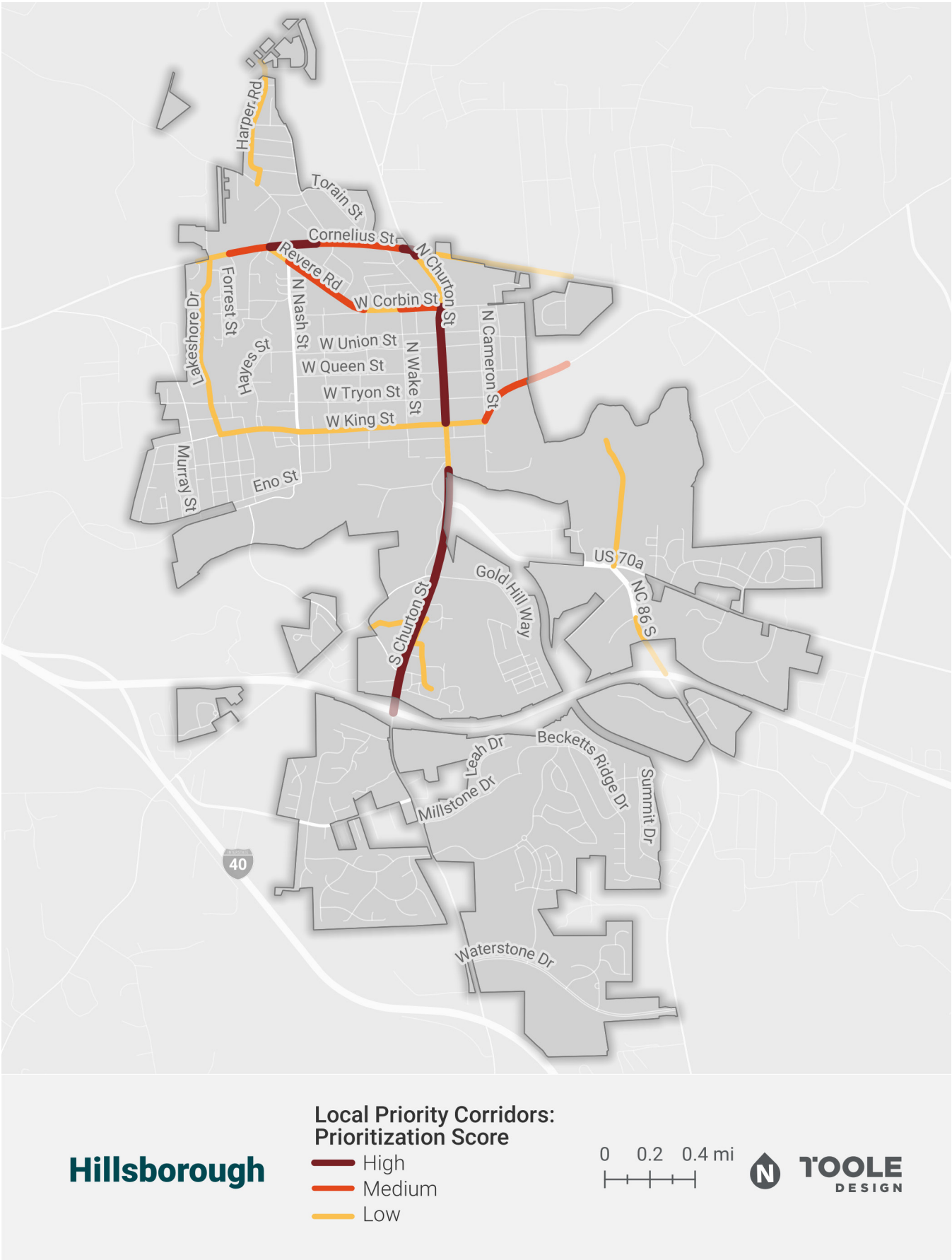
0 0.2 0.4 mi
+ + + +



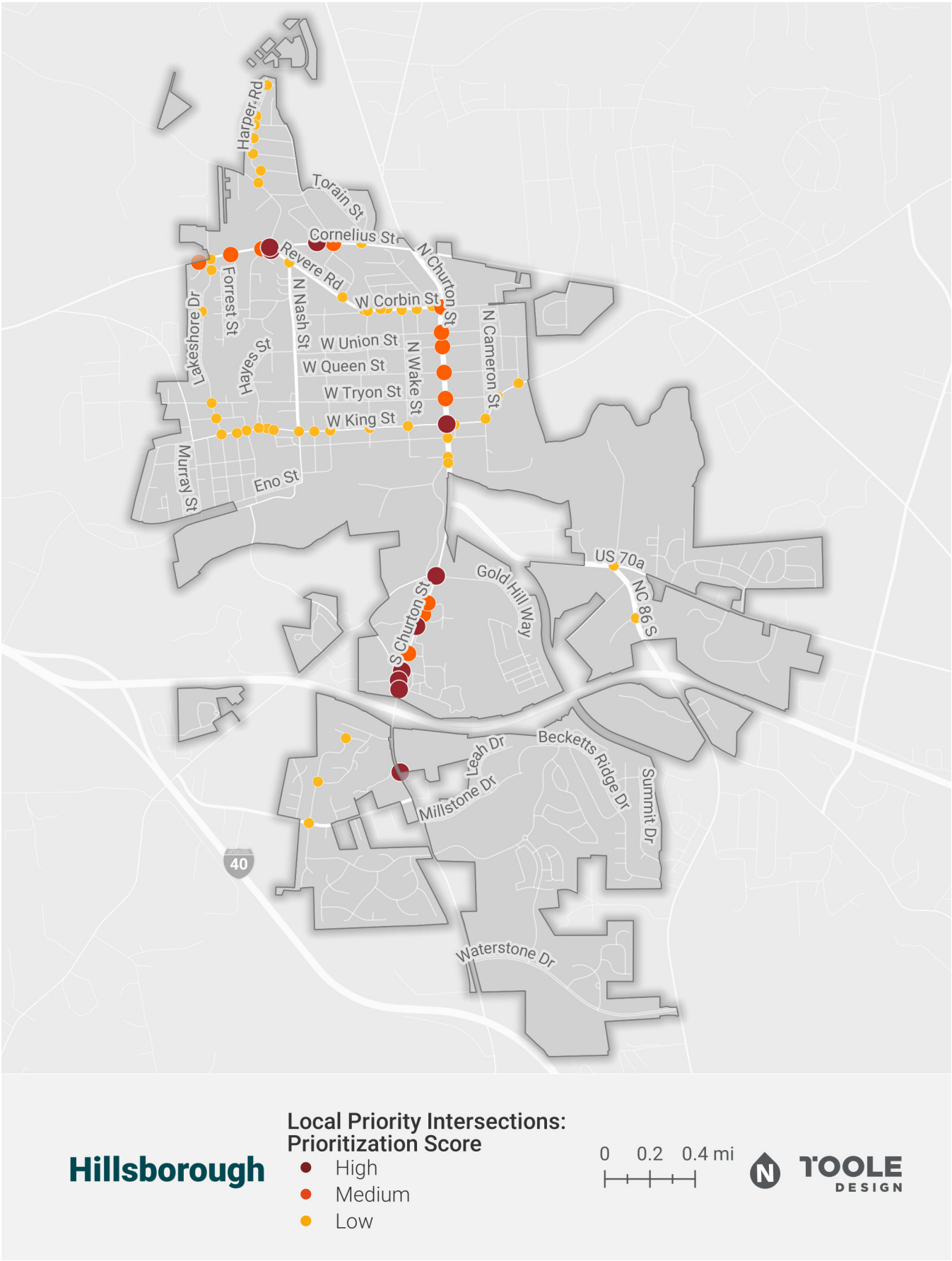
MAP 50 Town of Hillsborough Indicators of Potential Disadvantage and HIN Map



MAP 51 Town of Hillsborough Priority Corridors Map



MAP 52 Town of Hillsborough Priority Intersections Map



Durham County

DURHAM COUNTY

IMAGE
PLACEHOLDER

Source: Durham County

Community Data

The following information is provided as a resource for Durham County and can be used to support grant applications. Content specific to risk analysis should be used in conjunction with data from the Triangle West TPO Vision Zero Action Plan and is unique to Durham County.

Population

324,841 (2020)

Roadway Fatalities and Serious Injuries

- 2017-2023
 - » 233 fatalities
 - » Fatality rate per 100K: 10.25
 - » 695 serious injuries
- 2018-2022
 - » 160 fatalities
 - » Fatality rate per 100K: 9.85
 - » 517 serious injuries

High Injury Network Coverage

13.35% of roadway miles cover 72% of fatal and serious injury crashes (2017-2023)

Risk Analysis Thresholds

The following provides information related to the data for each community and applicable attributes.

Pedestrian Risk

- Top 5% = “prob_ped” > 0.21
- Top 15% = “prob_ped” > 0.08 and < 0.21

Bicycle Risk

- Top 5% = “prob_bike” > 0.07
- Top 15% = “prob_bike” > 0.03 and < 0.07

Motorcycle Risk

- Top 5% = “prob_MC” > 0.17
- Top 15% = “prob_MC” > 0.06 and < 0.17

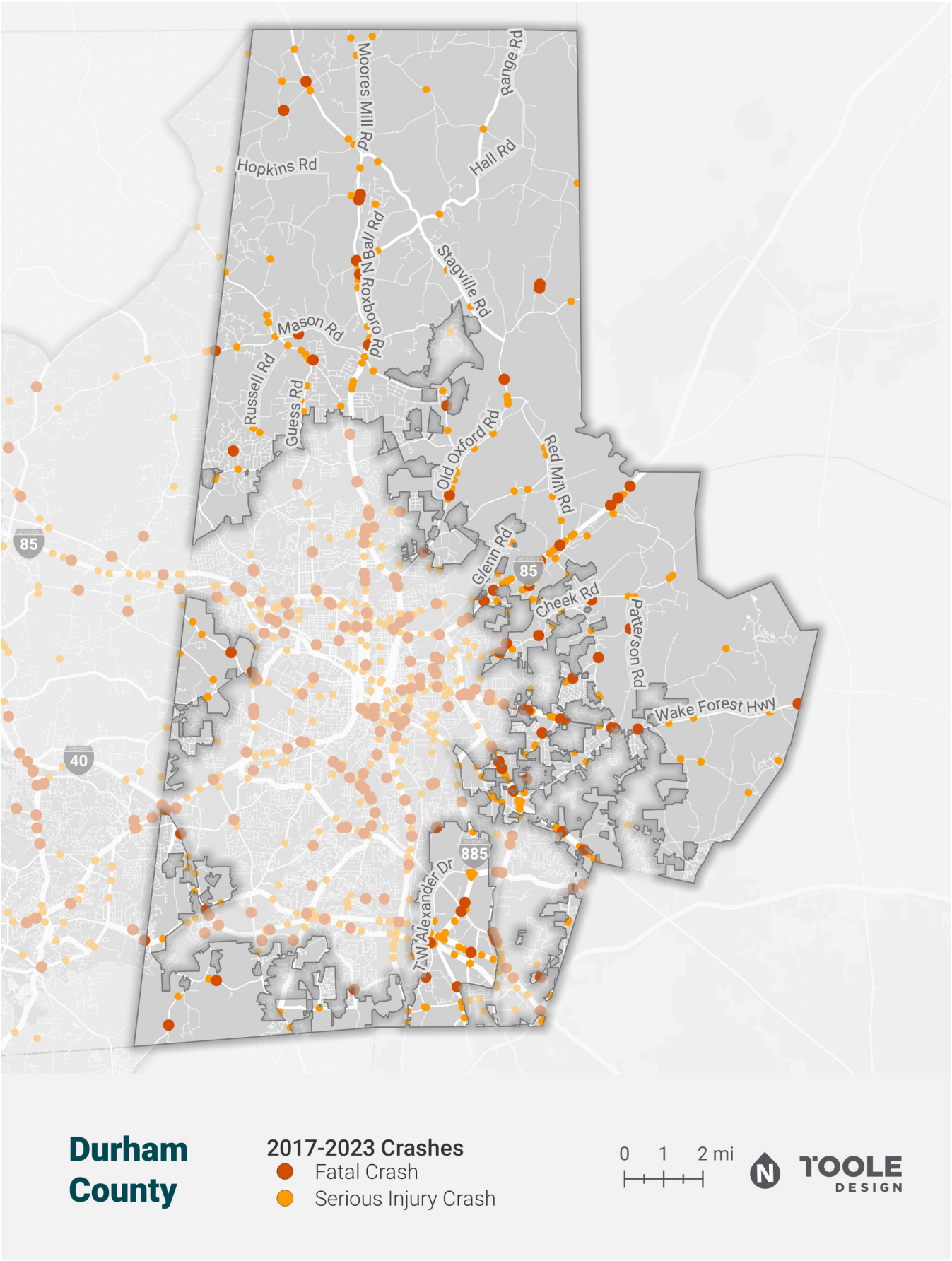
Speed Risk

- Top 5% = “prob_speed” > 0.31
- Top 15% = “prob_speed” > 0.10 and < 0.31

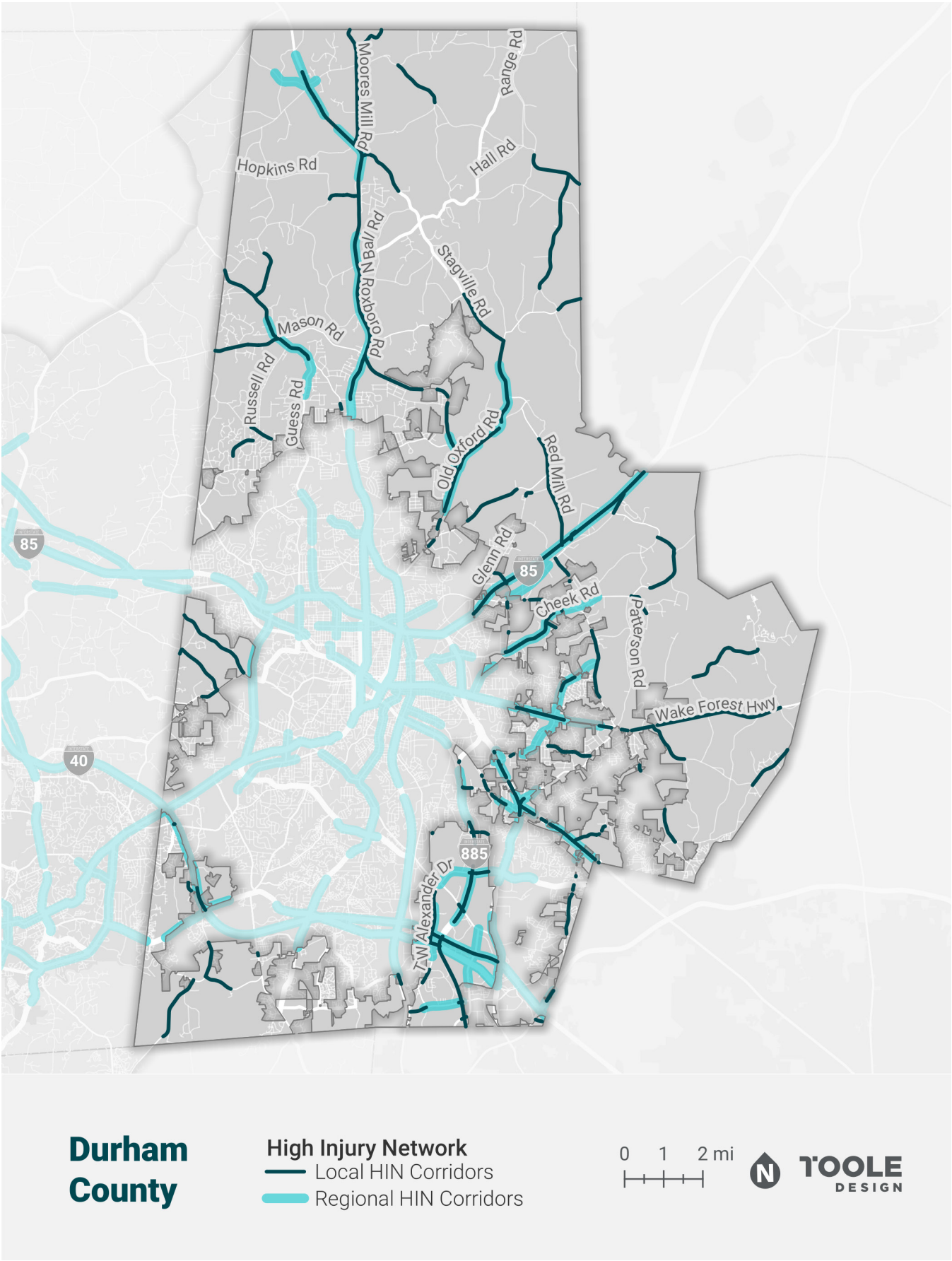
Lane Departure Risk

- Top 5% = “prob_LD” > 0.57
- Top 15% = “prob_LD” > 0.25 and < 0.57

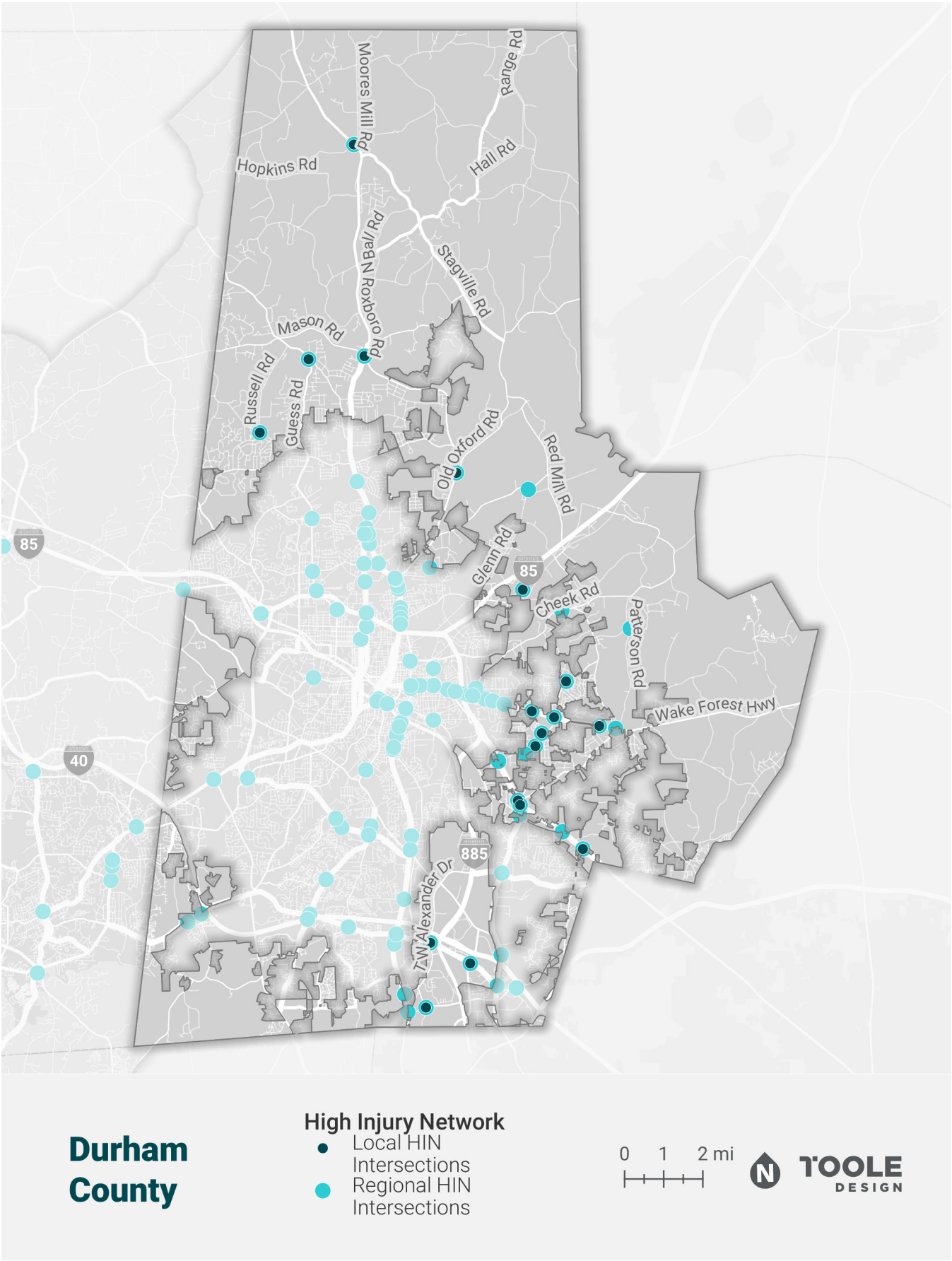
MAP 53 Durham County Crash Map



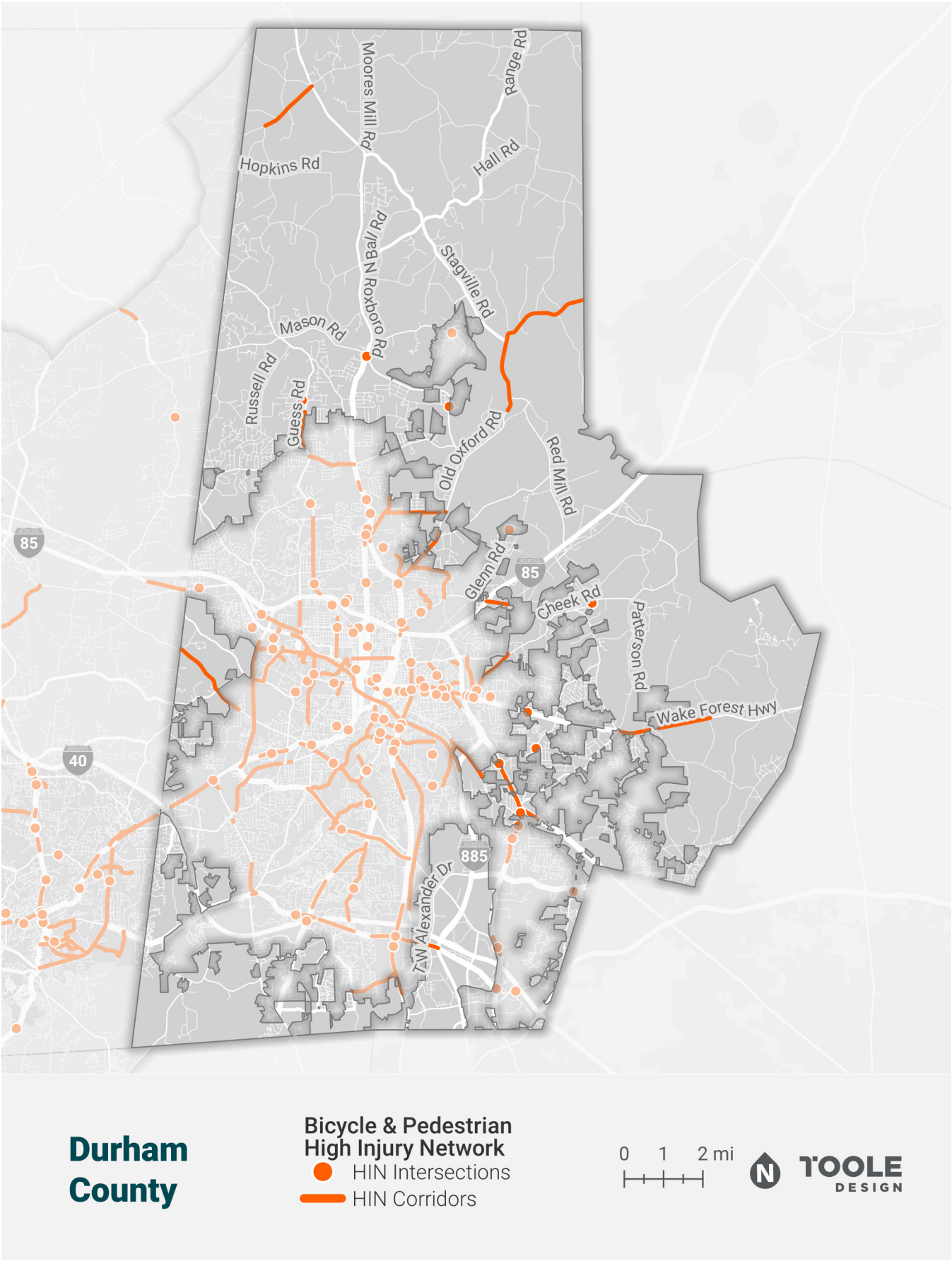
MAP 54 Durham County High Injury Network Map



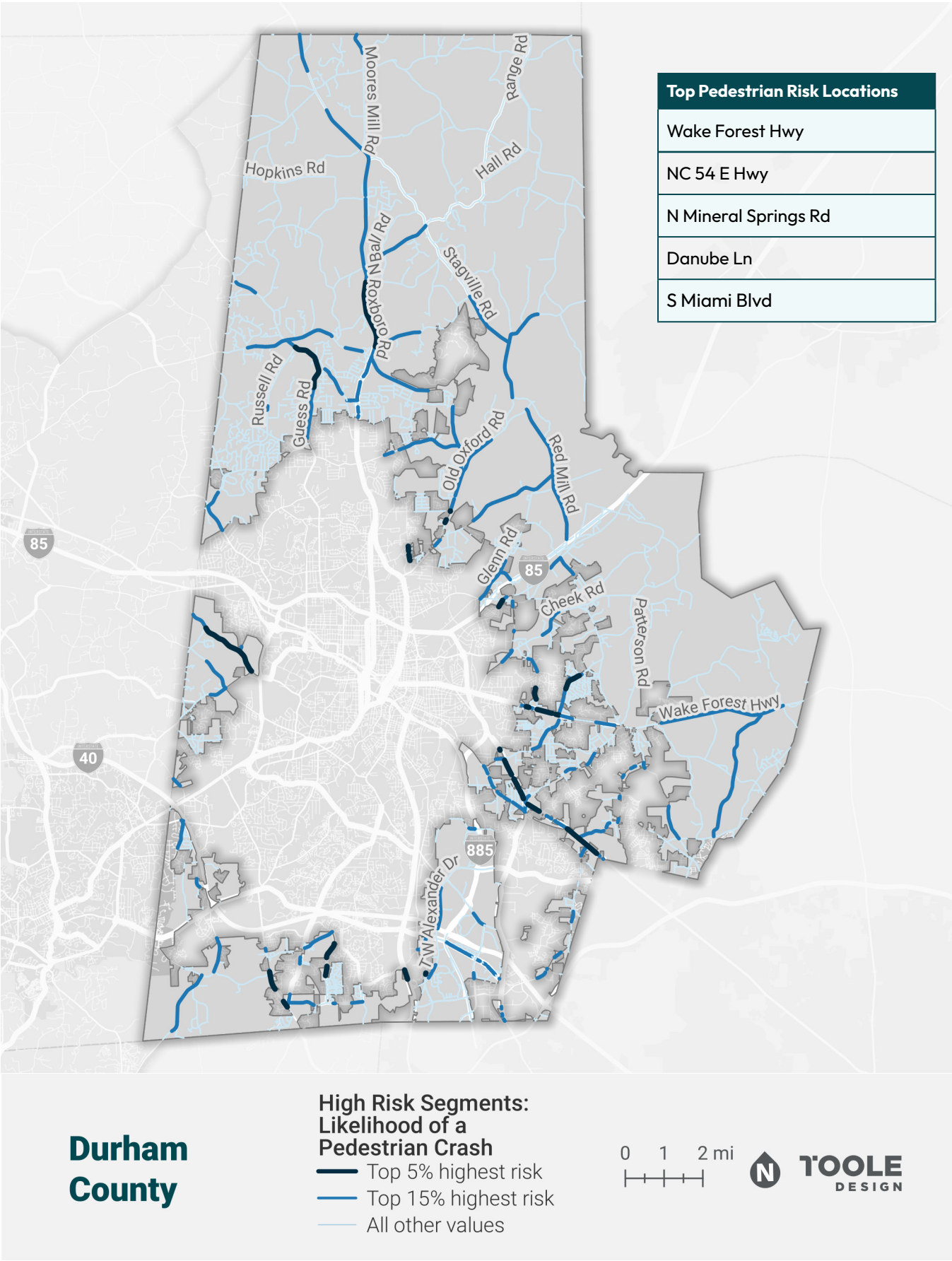
MAP 55 Durham County High Injury Intersections Map



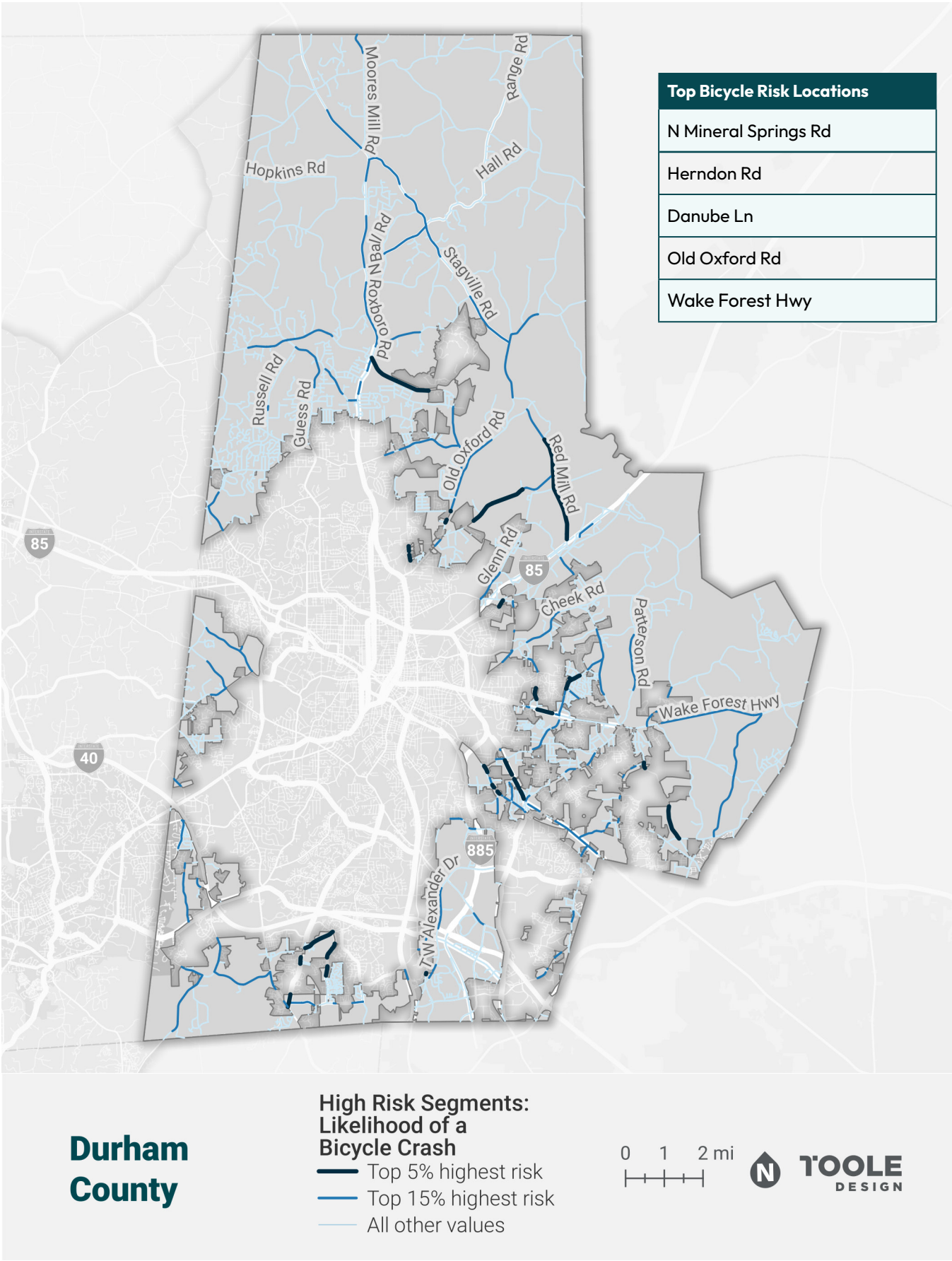
MAP 56 Durham County VRU High Injury Corridors and Intersections Map



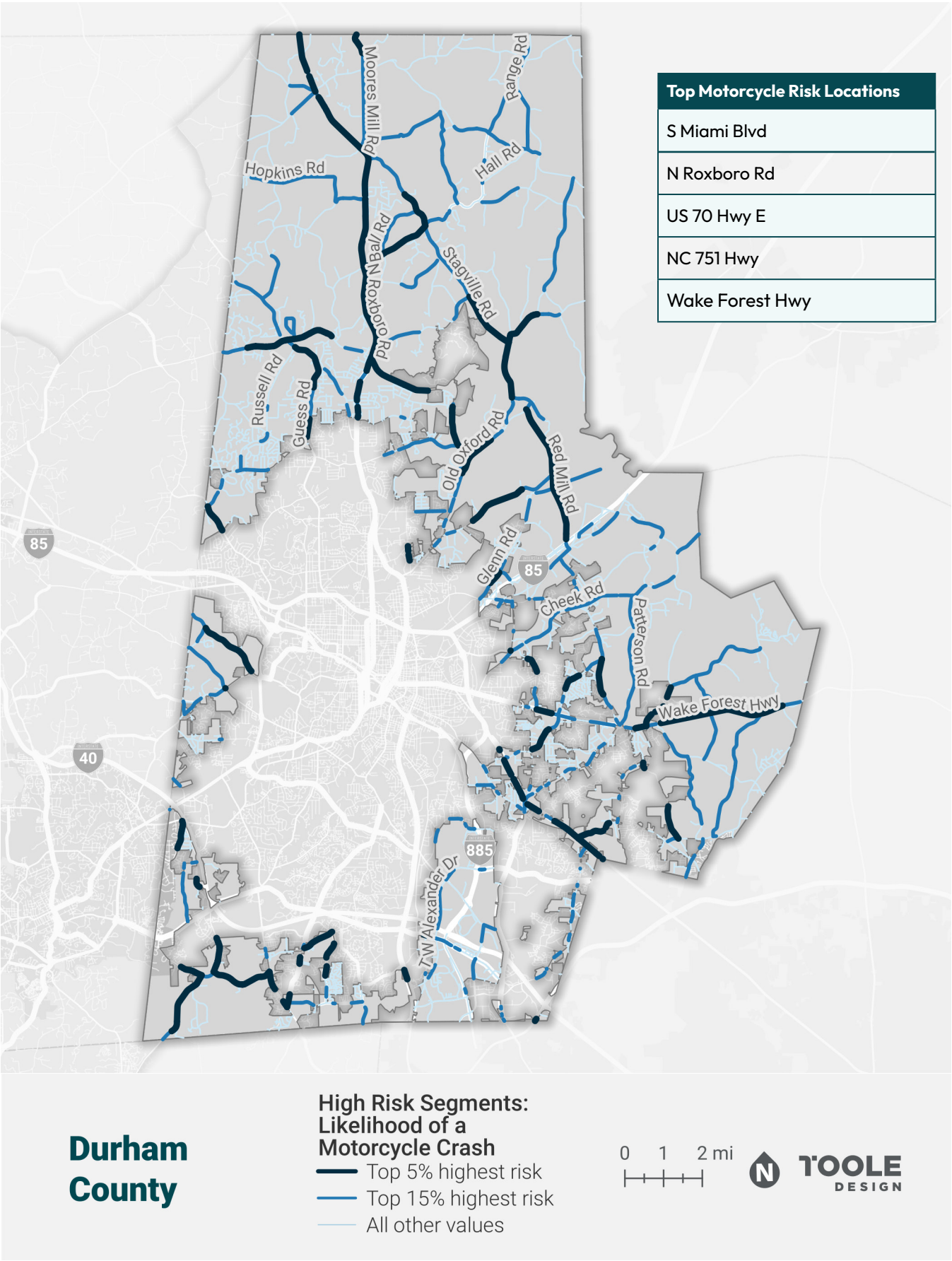
MAP 57 Durham County High Risk Corridors Map: Pedestrian Ris



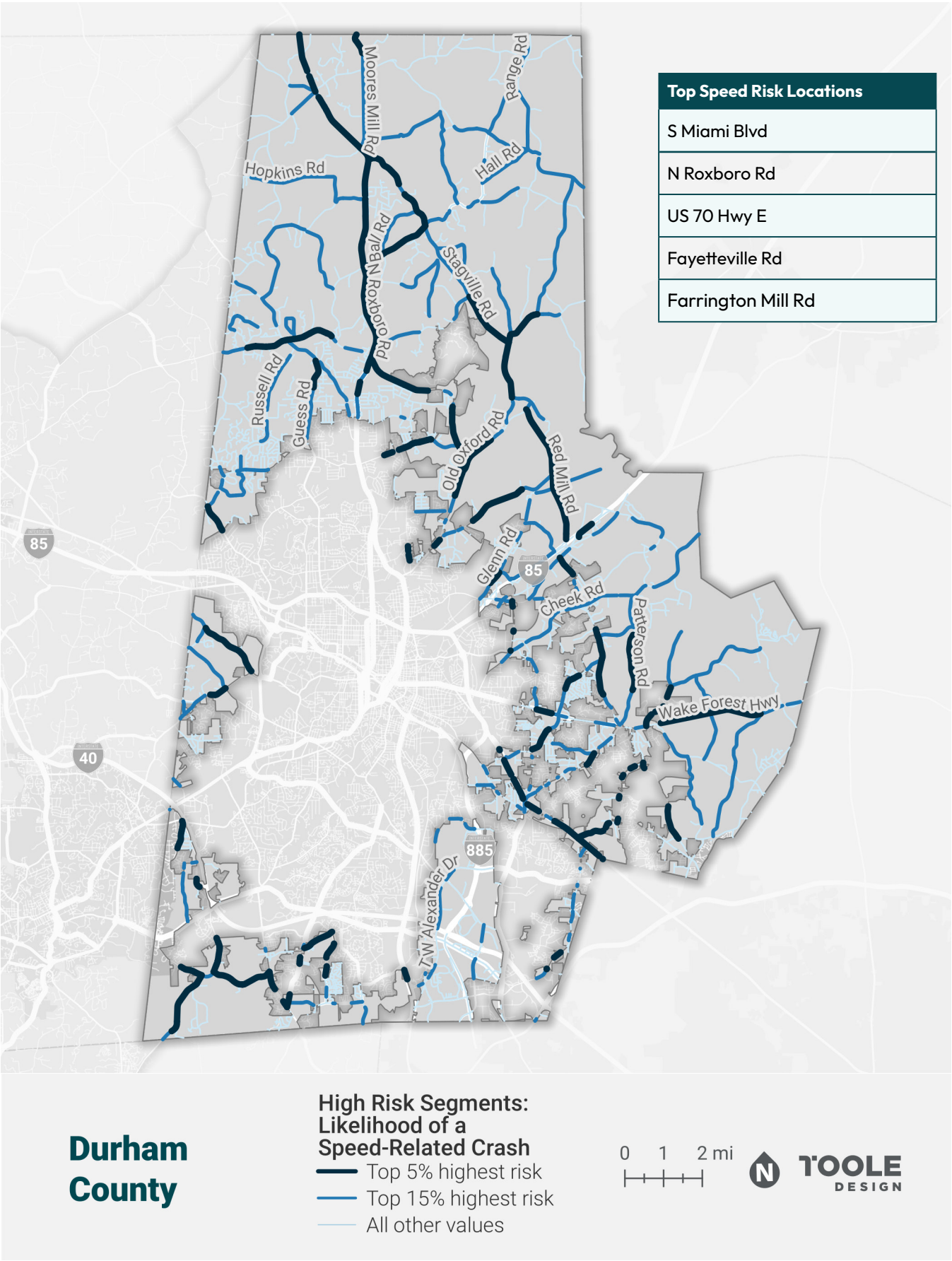
MAP 58 Durham County High Risk Corridors Map: Bicycle Risk



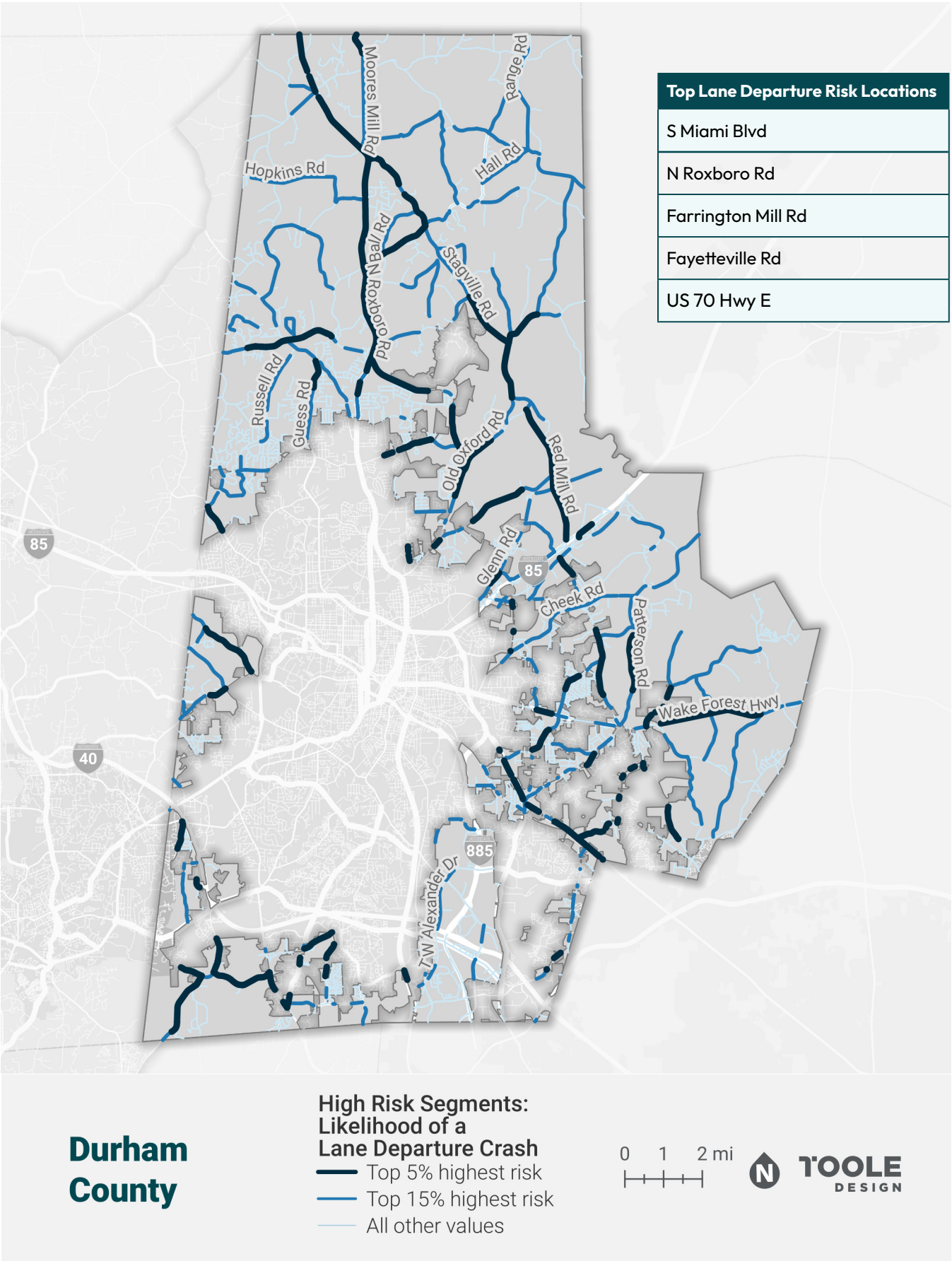
MAP 59 Durham County High Risk Corridors Map: Motorcycle Risk



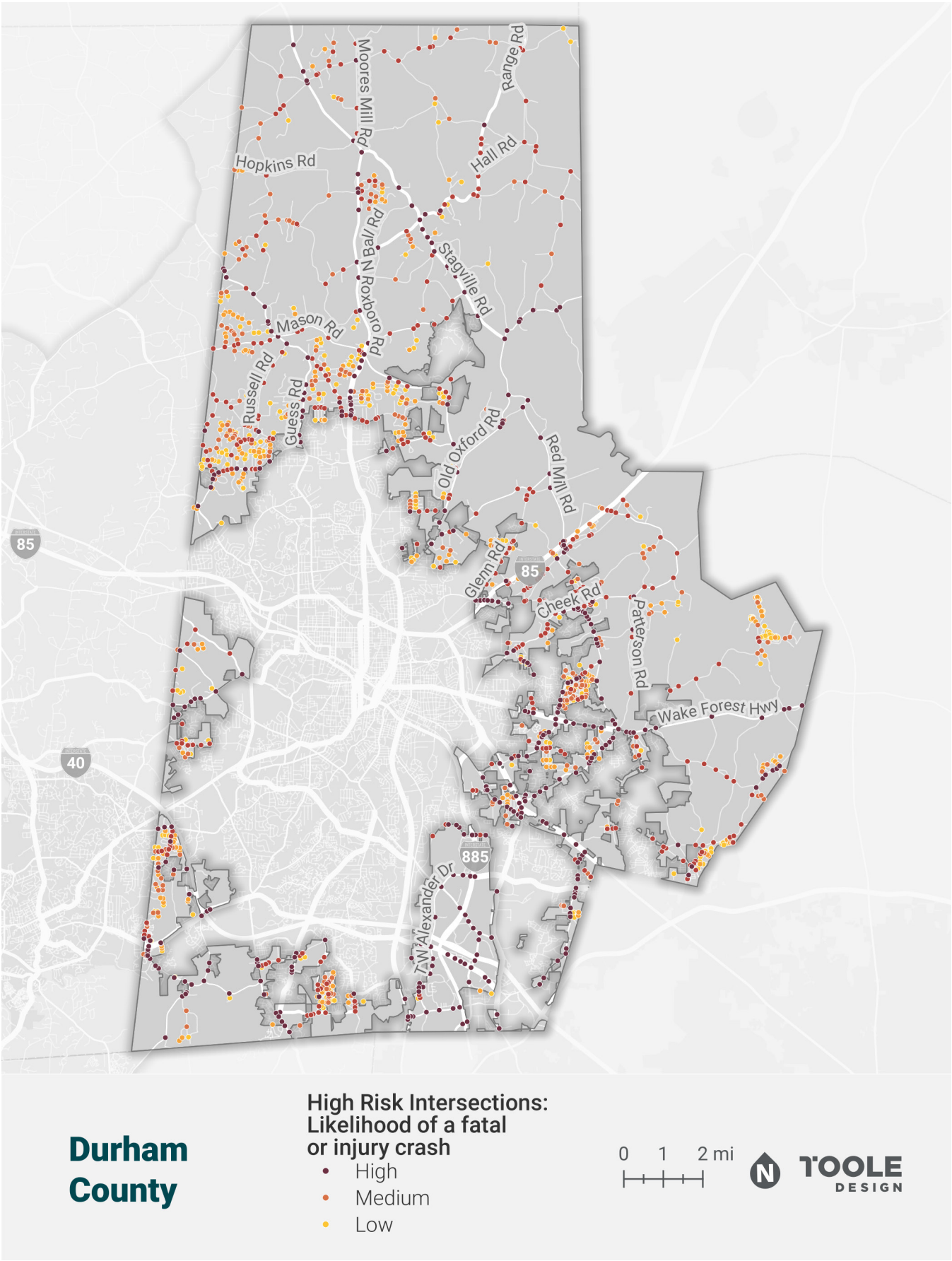
MAP 60 Durham County High Risk Corridors Map: Speed Risk



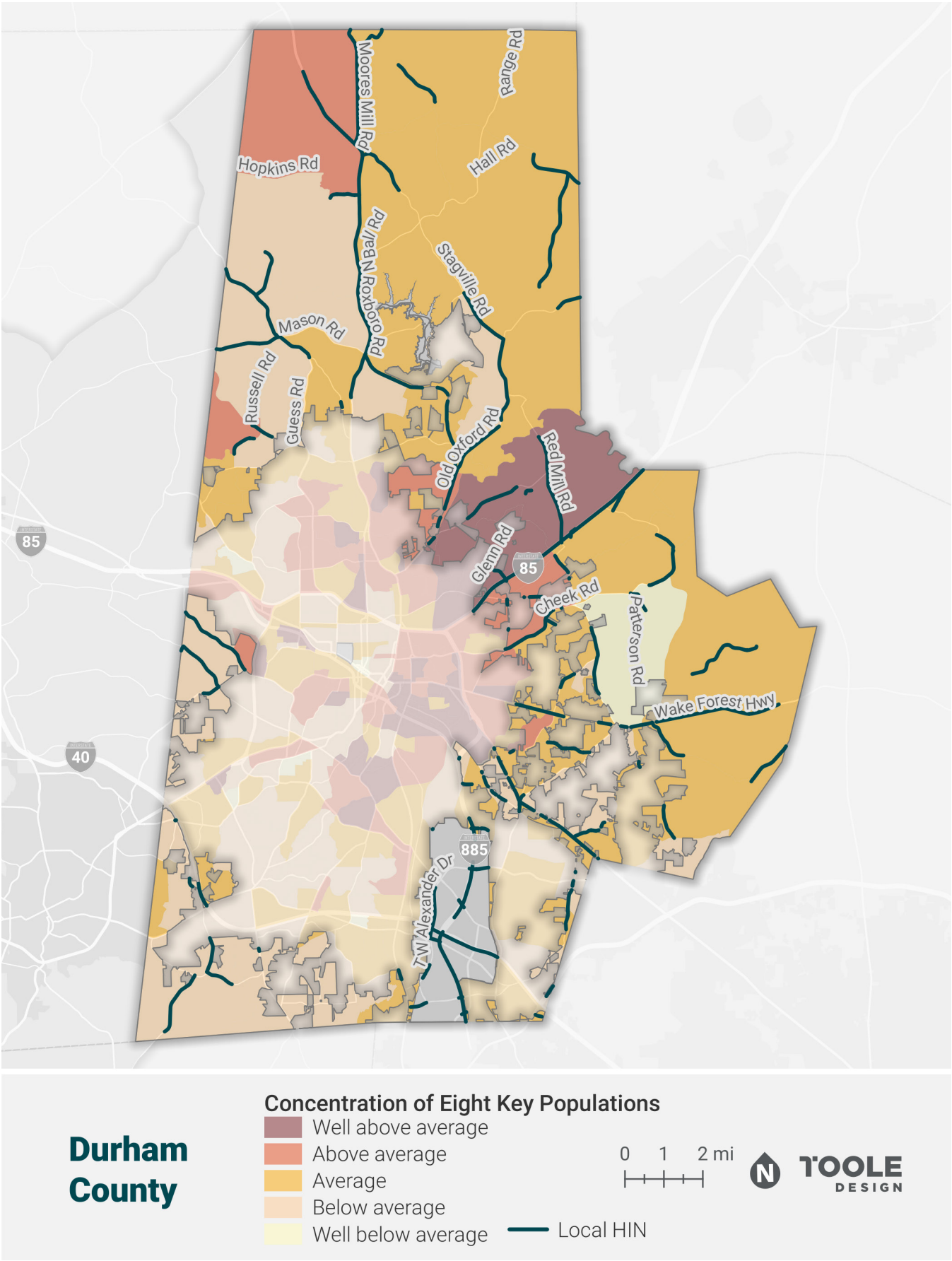
MAP 61 Durham County High Risk Corridors Map: Lane Departure Risk



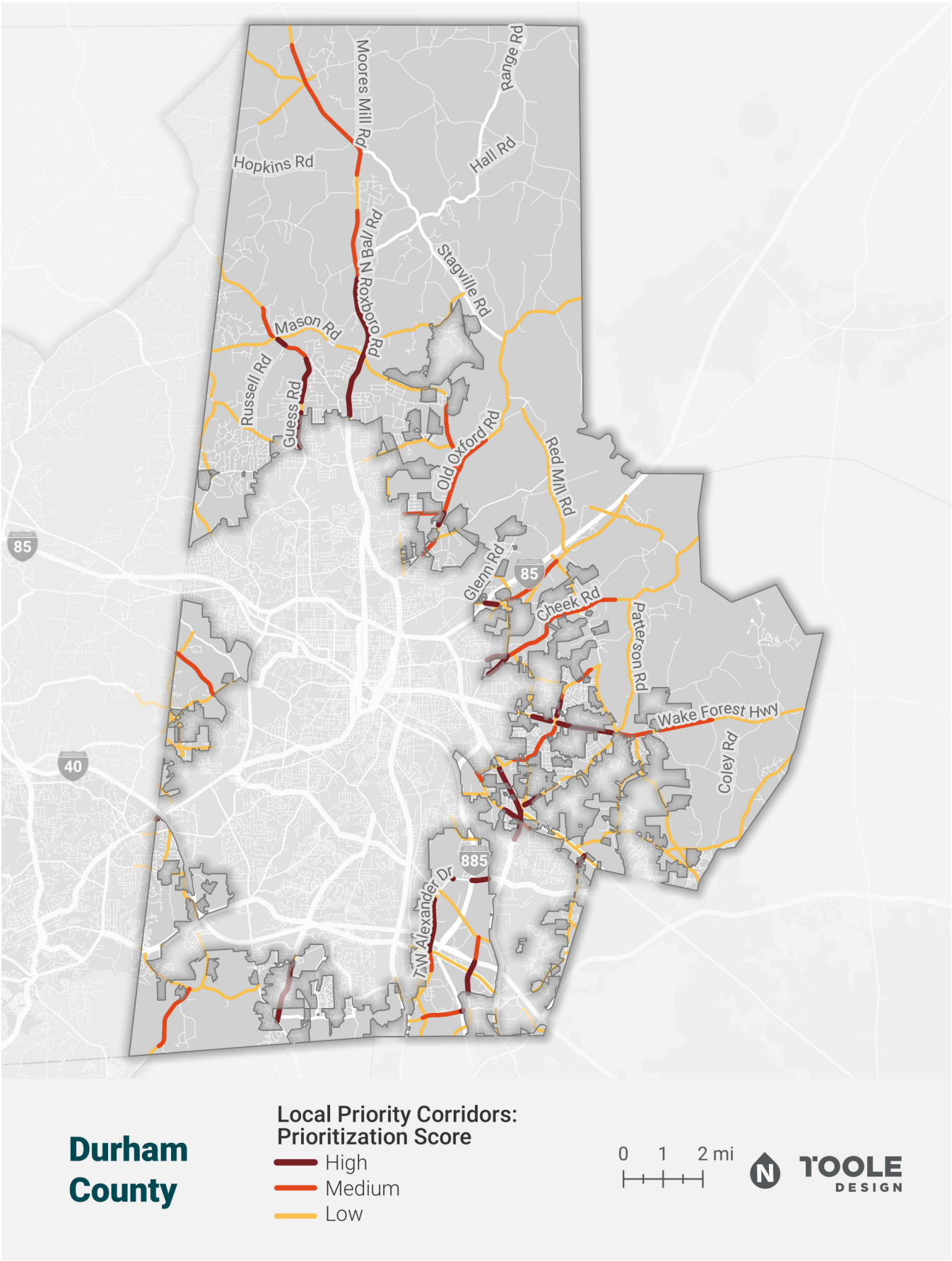
MAP 62 Durham County High Risk Intersections Map



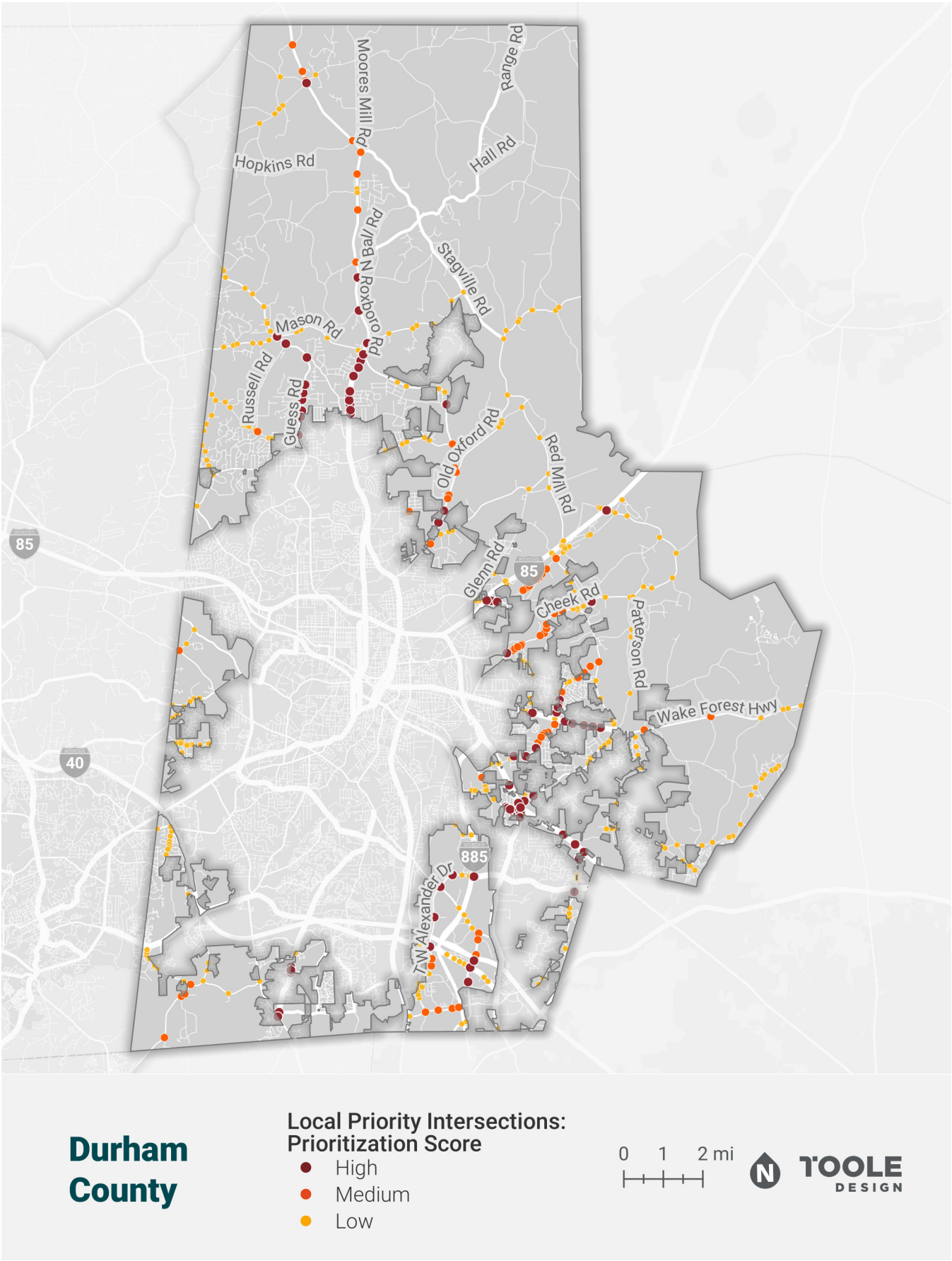
MAP 63 Durham County Indicators of Potential Disadvantage and HIN Map



MAP 64 Durham County Priority Corridors Map



MAP 65 Durham County Priority Intersections Map



Orange County

ORANGE COUNTY

IMAGE
PLACEHOLDER

Source: Orange County

Community Data

The following information is provided as a resource for Orange County and can be used to support grant applications. Content specific to risk analysis should be used in conjunction with data from the Triangle West TPO Vision Zero Action Plan and is unique to Orange County.

Population

148,696 (2020)

Roadway Fatalities and Serious Injuries

- 2017-2023
 - » 69 fatalities
 - » Fatality rate per 100K: 6.63
 - » 236 serious injuries
- 2018-2022
 - » 48 fatalities
 - » Fatality rate per 100K: 6.46
 - » 134 serious injuries

High Injury Network Coverage

10.07% of roadway miles cover 78% of fatal and serious injury crashes (2017-2023)

Risk Analysis Thresholds

The following provides information related to the data for each community and applicable attributes.

Pedestrian Risk

- Top 5% = “prob_ped” > 0.09
- Top 15% = “prob_ped” > 0.04 and < 0.09

Bicycle Risk

- Top 5% = “prob_bike” > 0.07
- Top 15% = “prob_bike” > 0.03 and < 0.07

Motorcycle Risk

- Top 5% = “prob_MC” > 0.09
- Top 15% = “prob_MC” > 0.03 and < 0.09

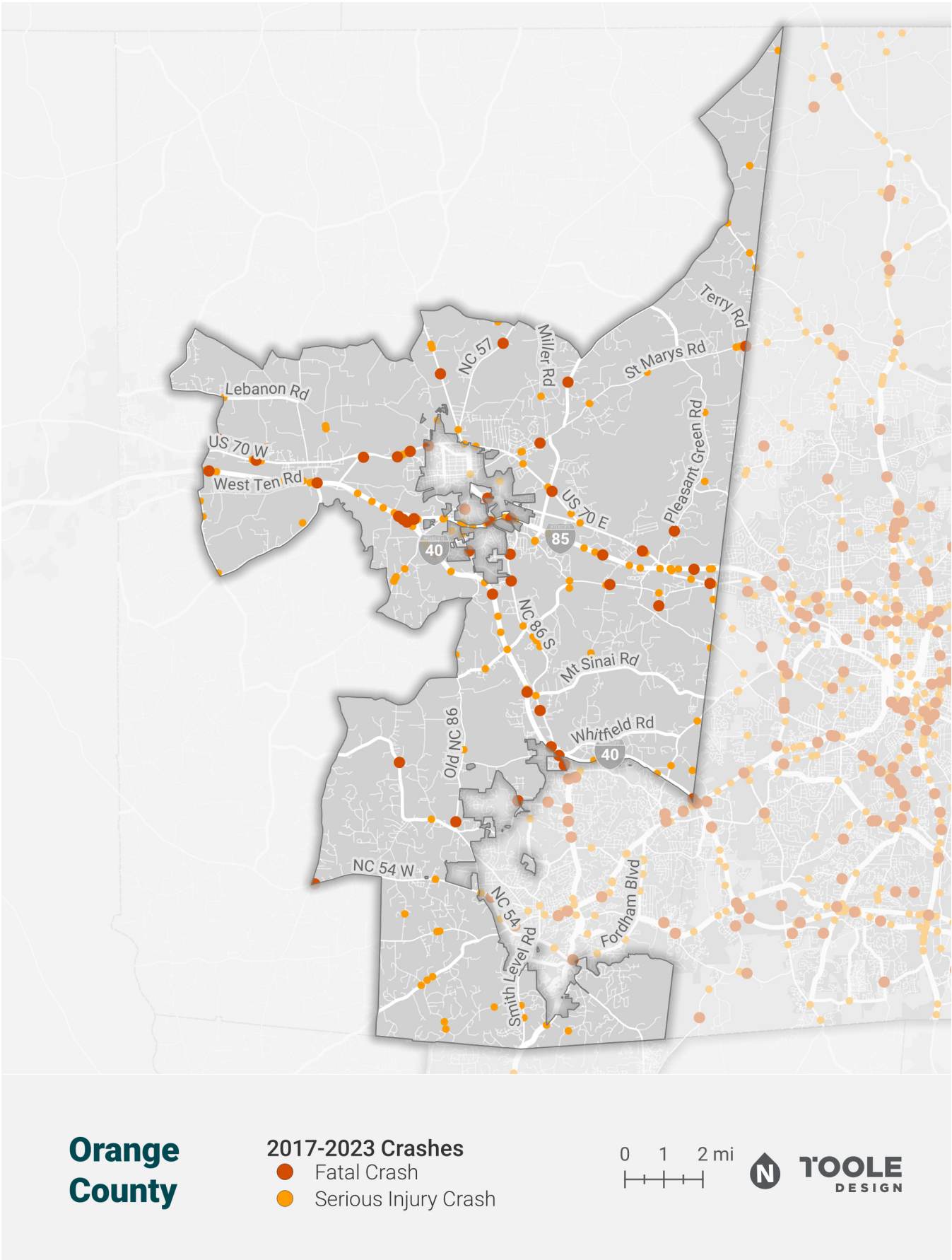
Speed Risk

- Top 5% = “prob_speed” > 0.18
- Top 15% = “prob_speed” > 0.06 and < 0.18

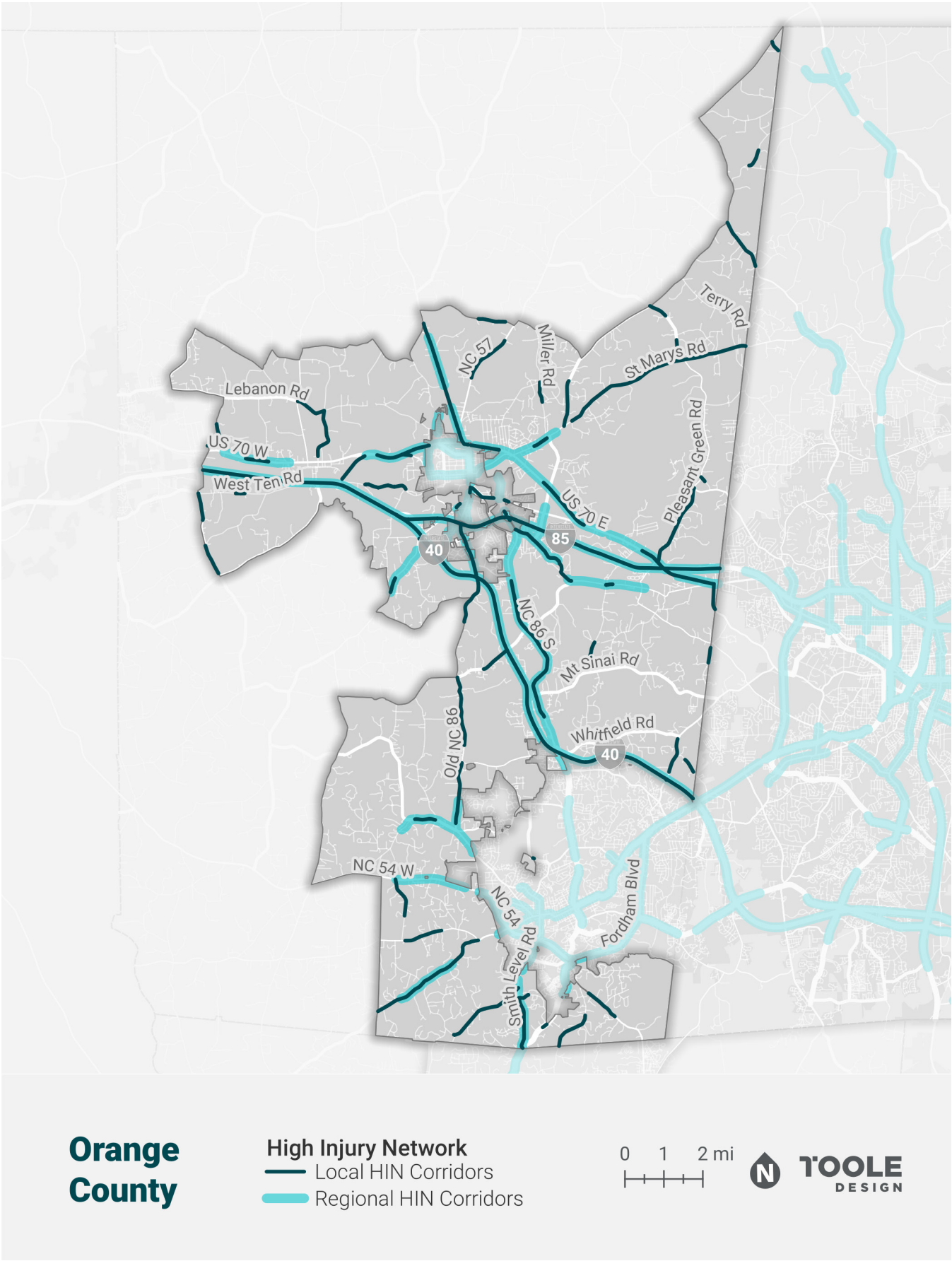
Lane Departure Risk

- Top 5% = “prob_LD” > 0.42
- Top 15% = “prob_LD” > 0.16 and < 0.42

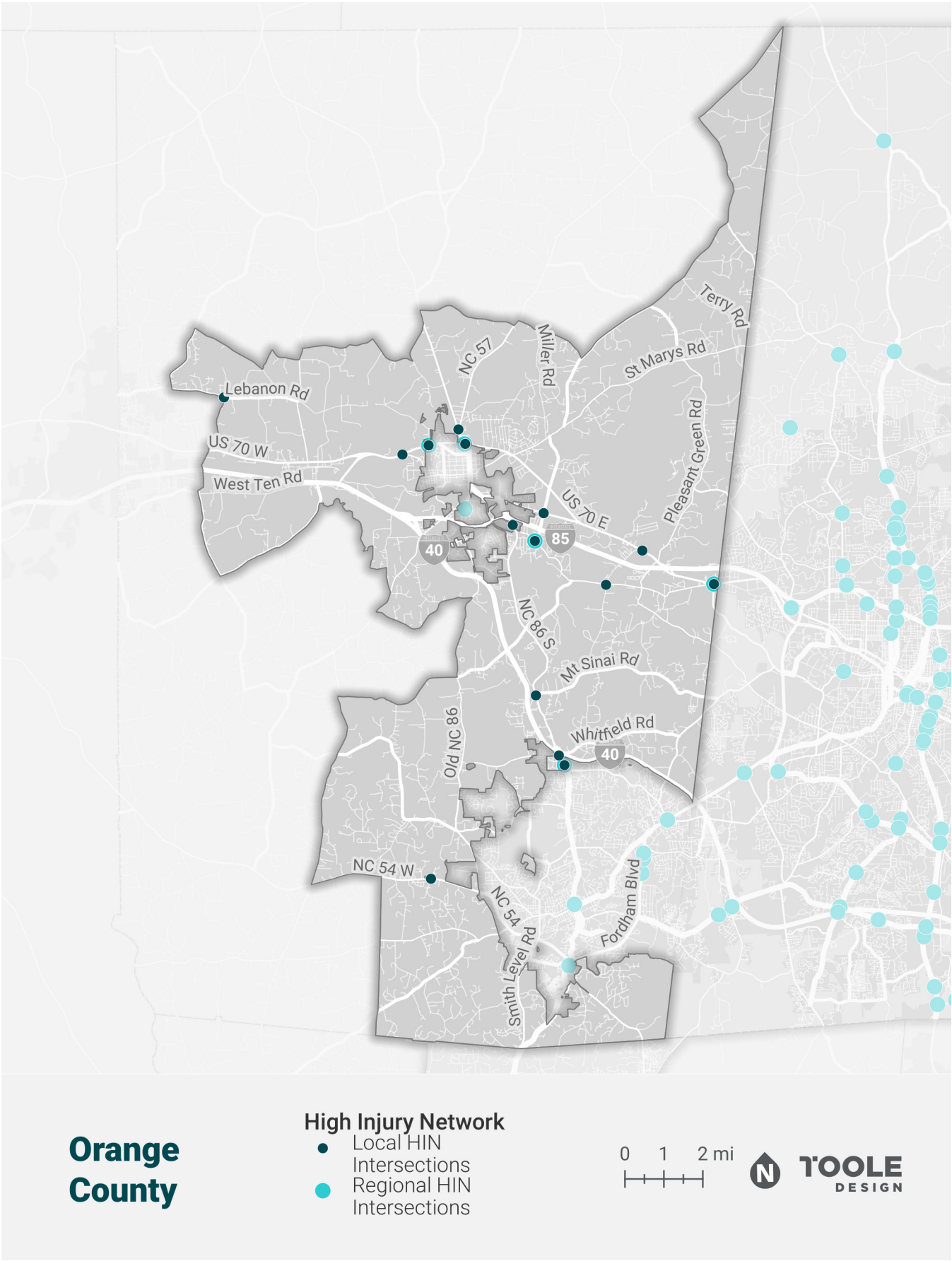
MAP 66 Orange County Crash Map



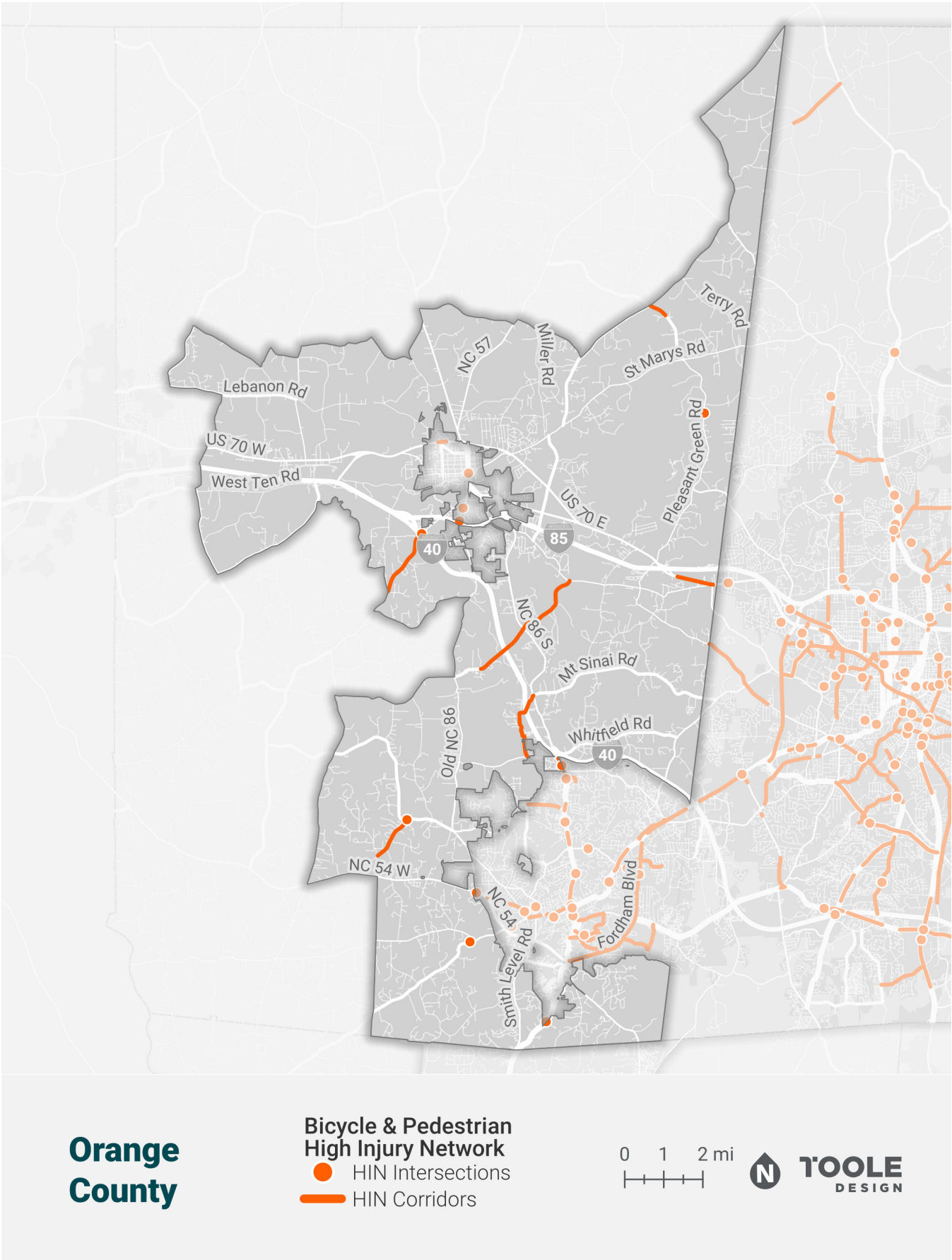
MAP 67 Orange County High Injury Network Map



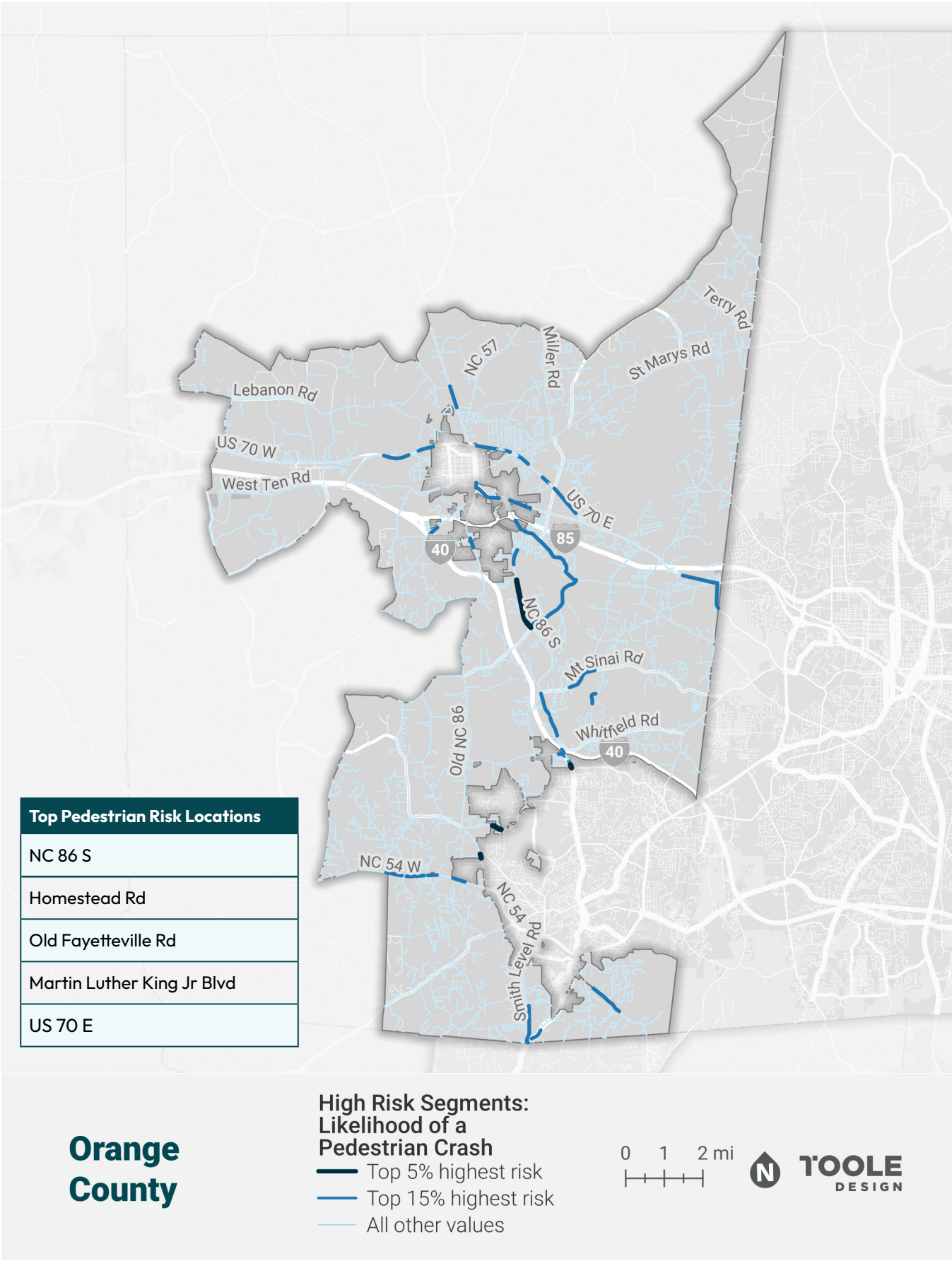
MAP 68 Orange County High Injury Intersections Map



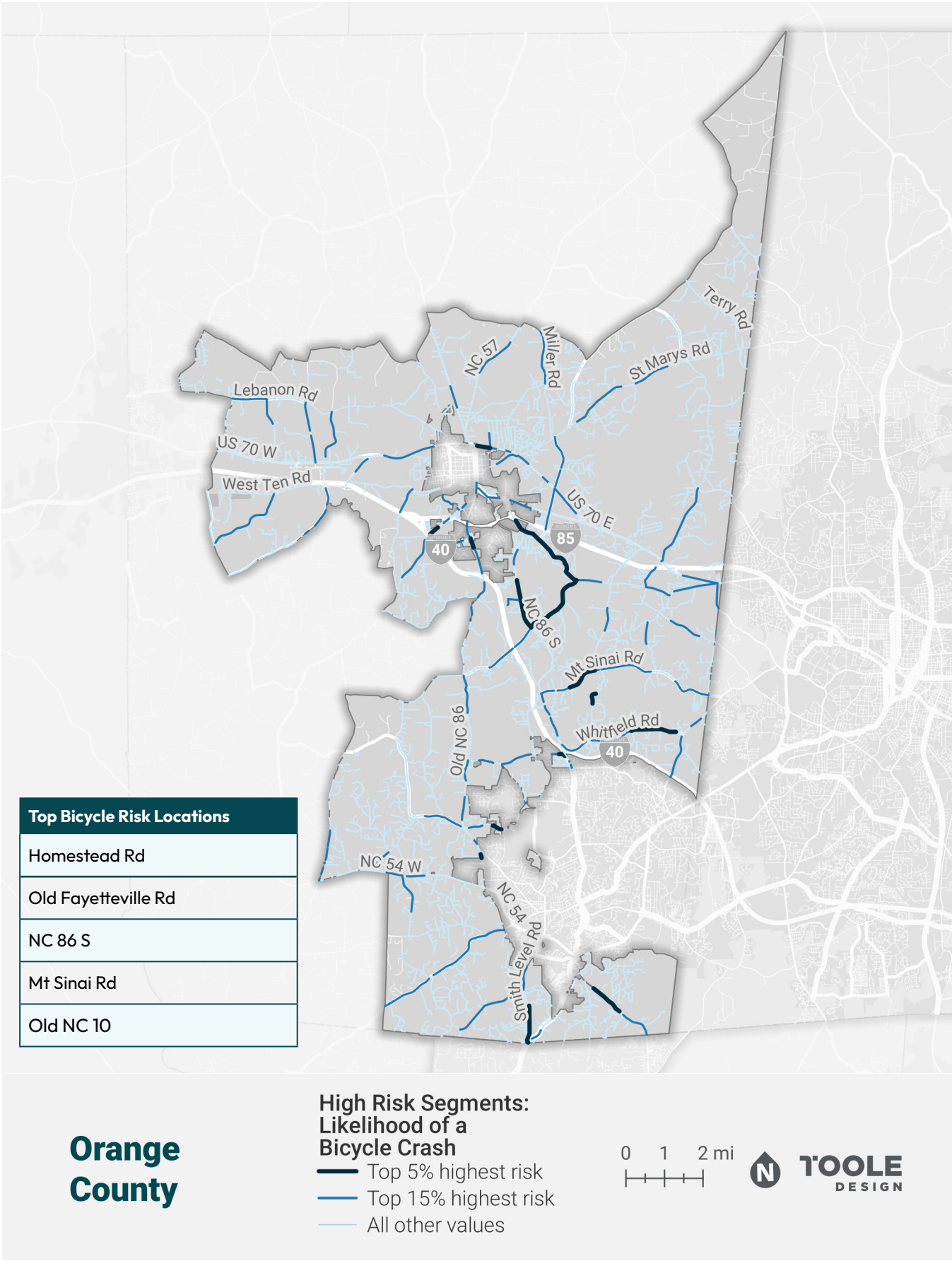
MAP 69 Orange County VRU High Injury Corridors and Intersections Map



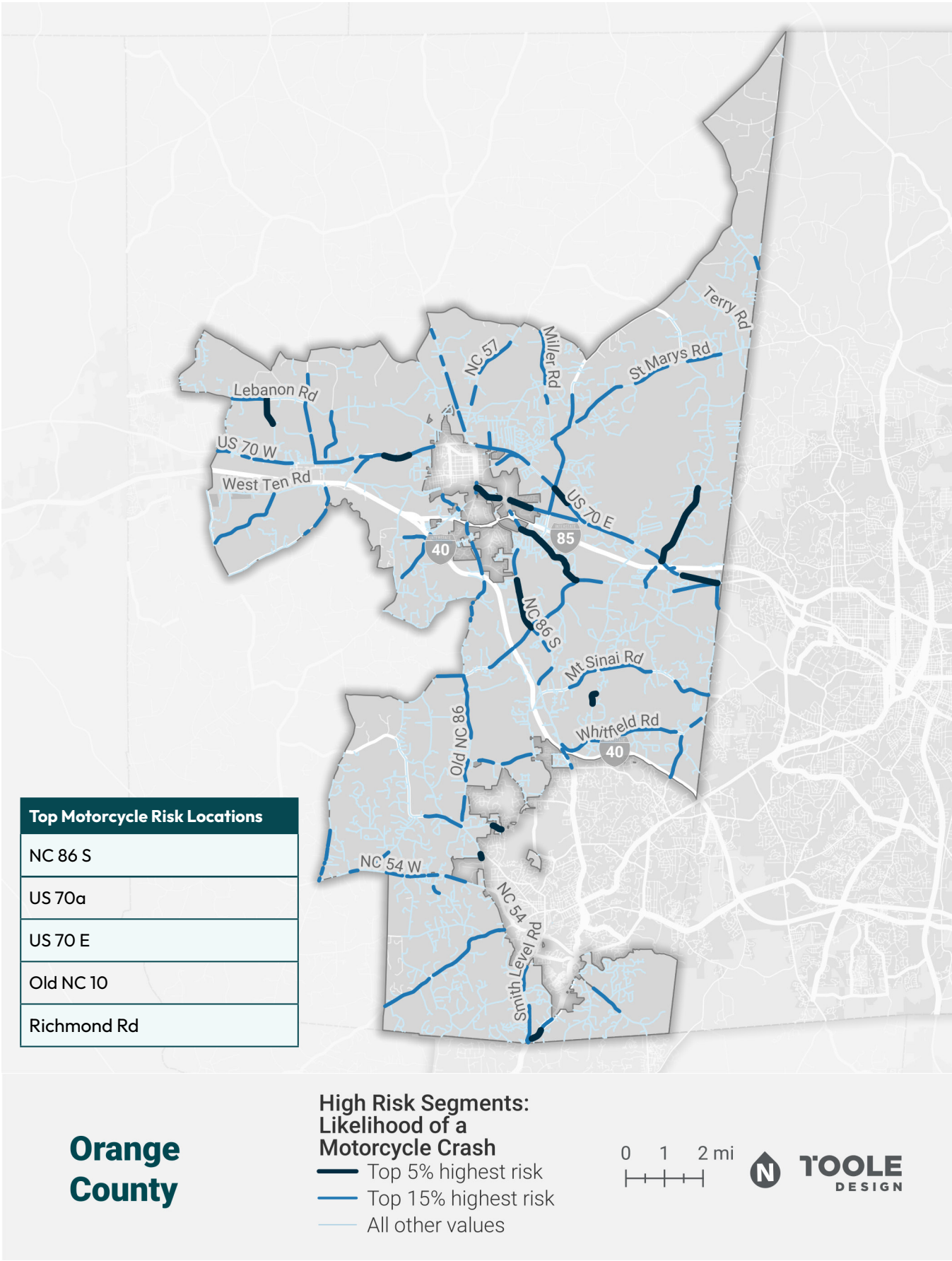
MAP 70 Orange County High Risk Corridors Map: Pedestrian Risk



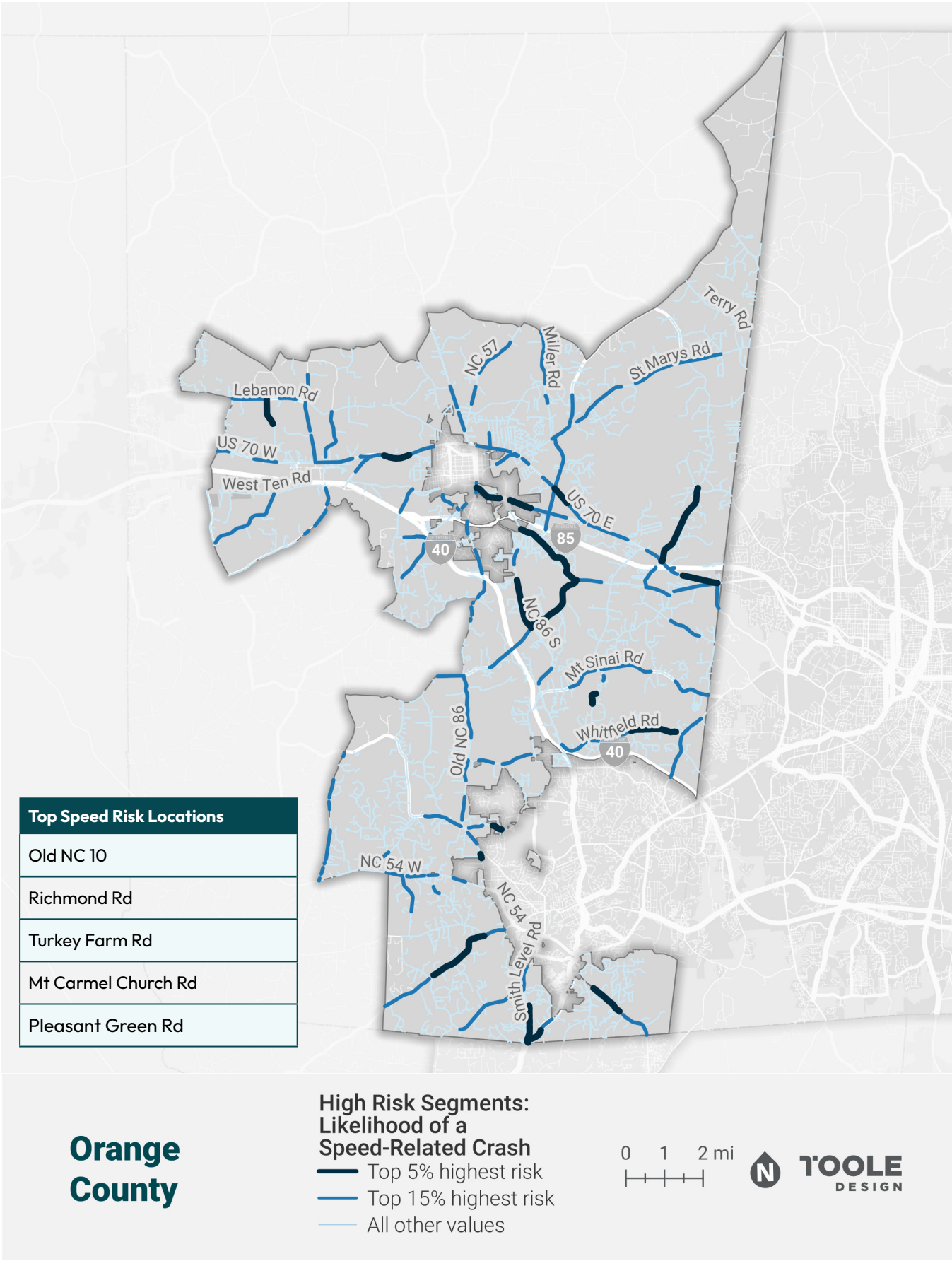
MAP 71 Orange County High Risk Corridors Map: Bicycle Risk



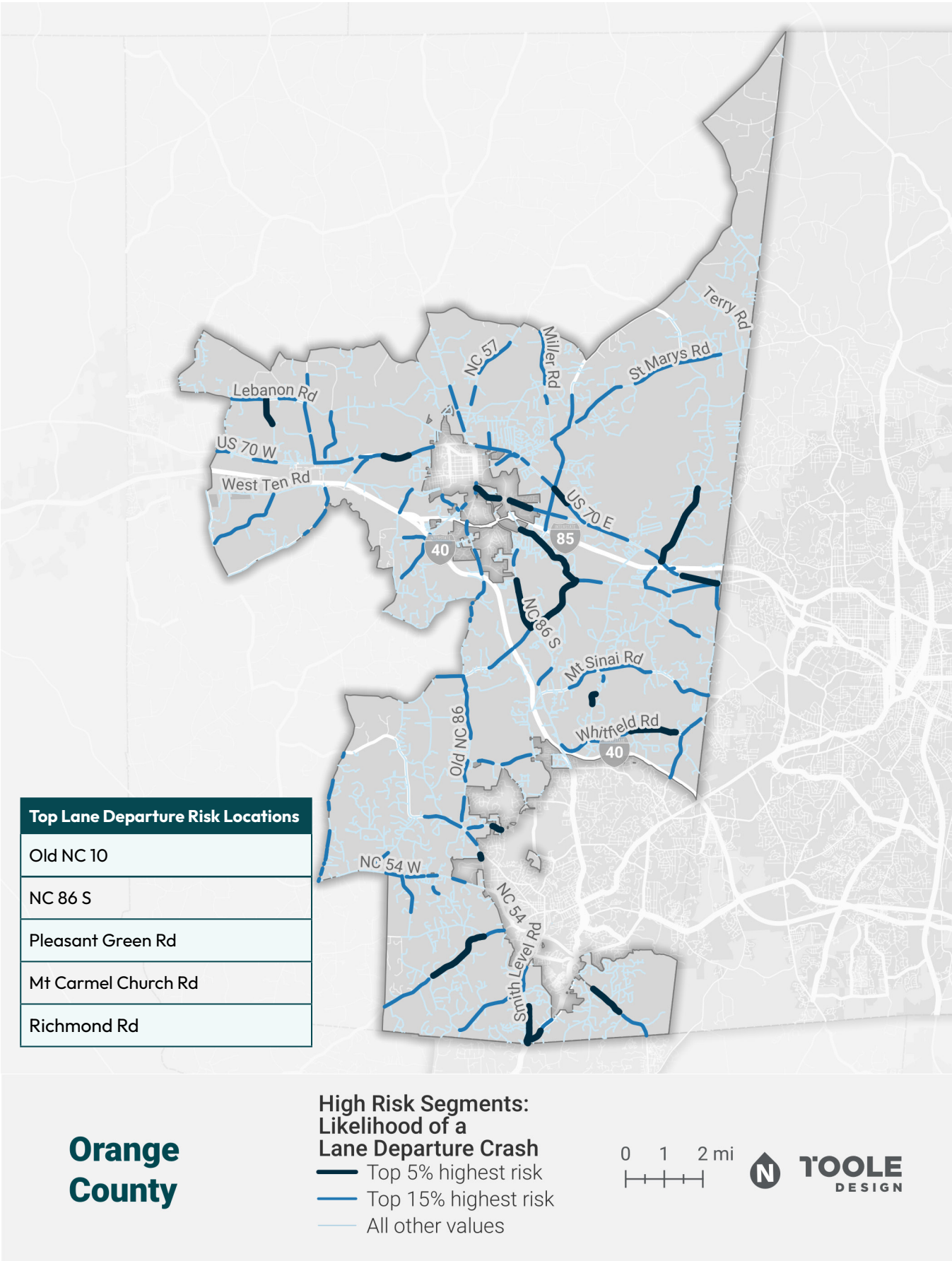
MAP 72 Orange County High Risk Corridors Map: Motorcycle Risk



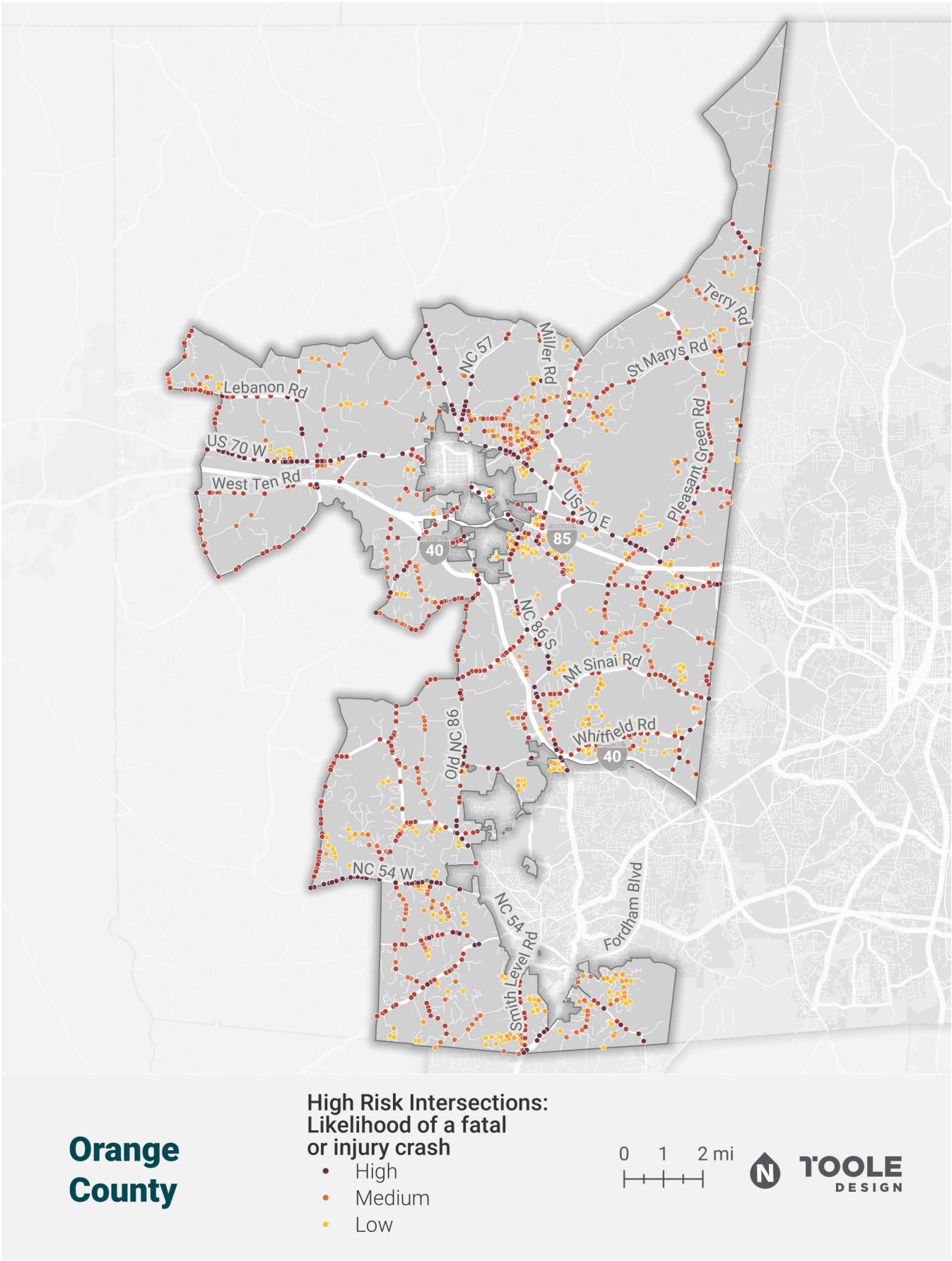
MAP 73 Orange County High Risk Corridors Map: Speed Risk



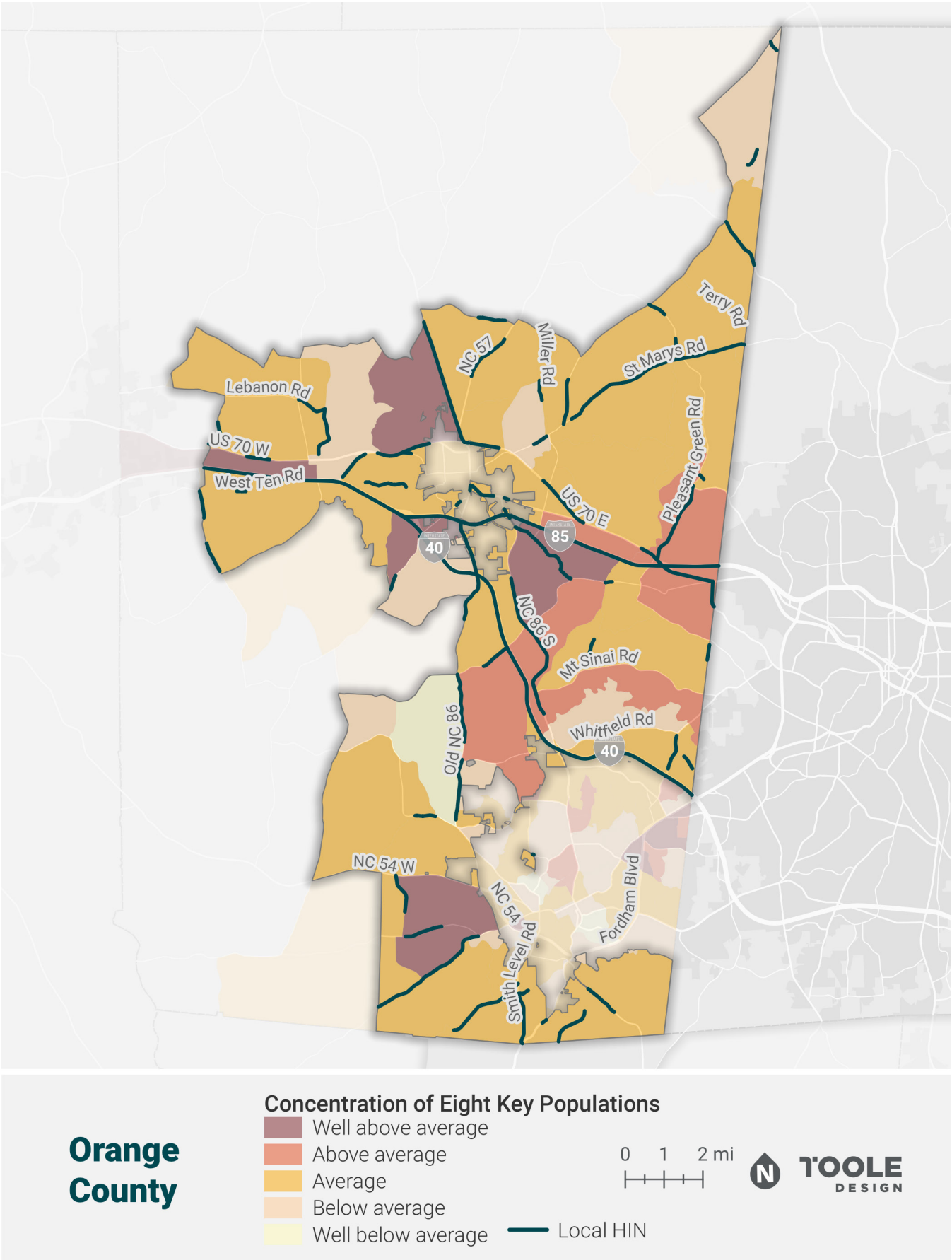
MAP 74 Orange County High Risk Corridors Map: Lane Departure Risk



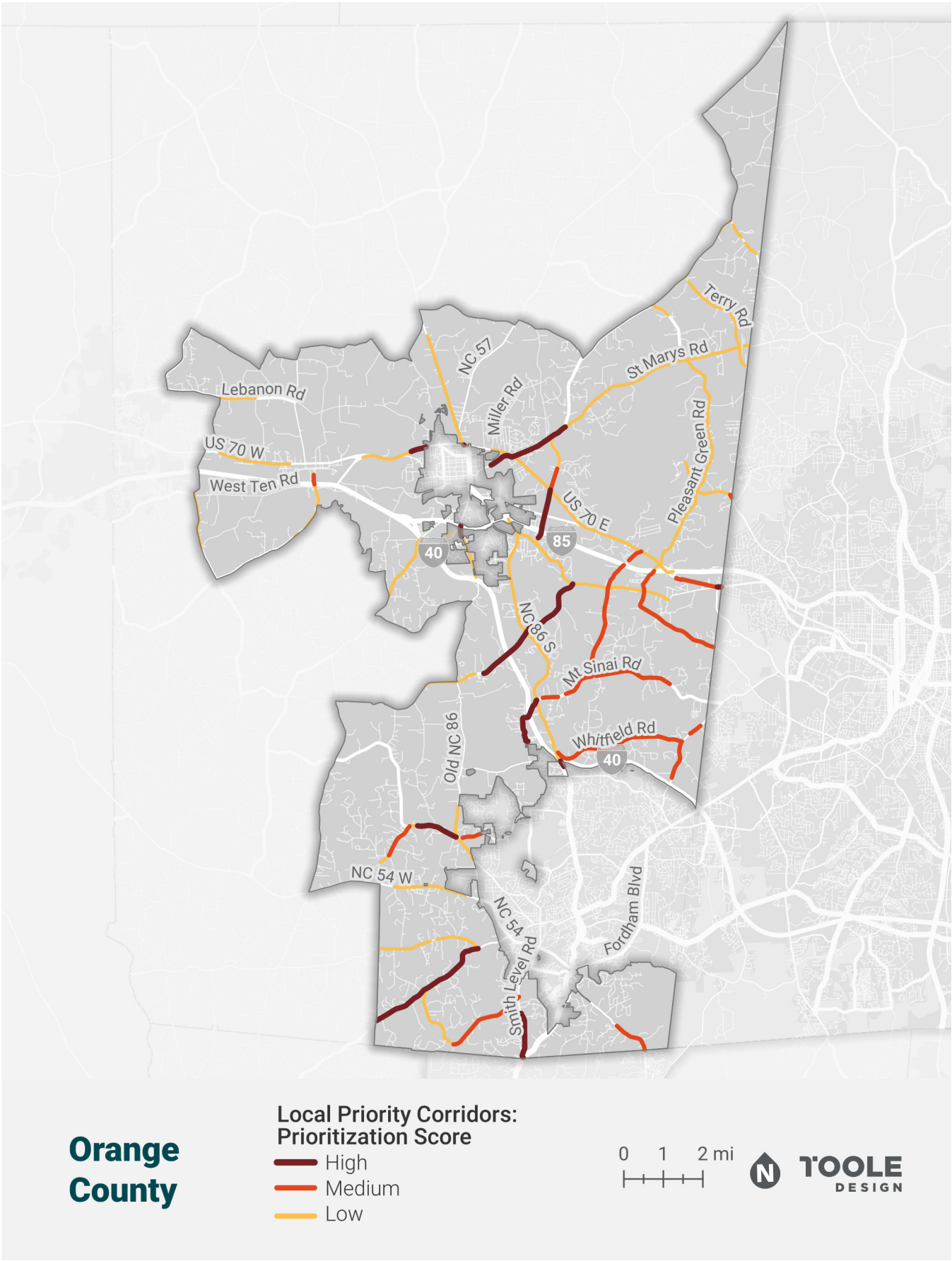
MAP 75 Orange County High Risk Intersections Map



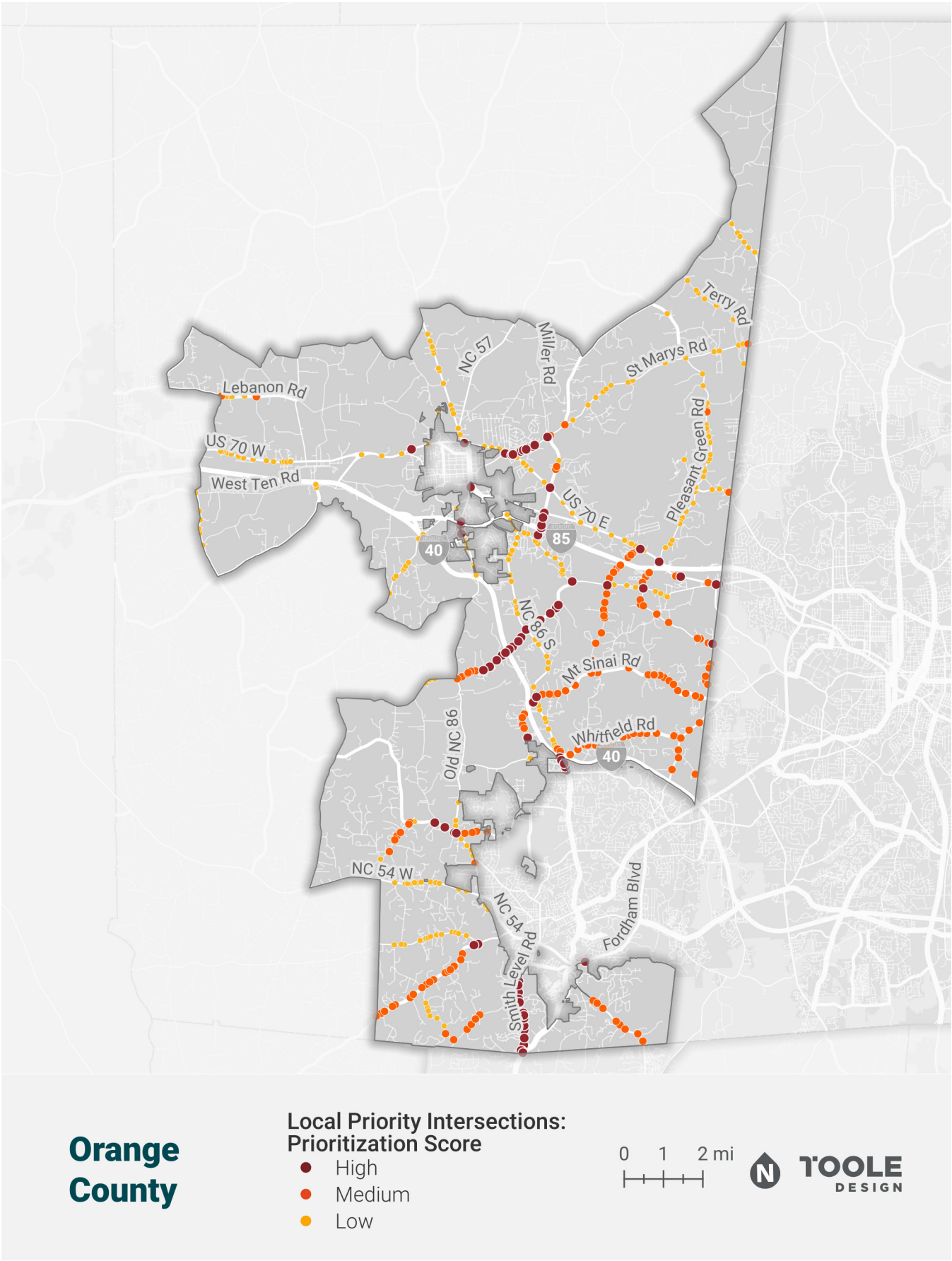
MAP 76 Orange County Indicators of Potential Disadvantage and HIN Map



MAP 77 Orange County Priority Corridors Map



MAP 78 Orange County Priority Intersections Map



Chatham County



Source: Chatham County

Community Data

The following information is provided as a resource for Chatham County and can be used to support grant applications. Content specific to risk analysis should be used in conjunction with data from the Triangle West TPO Vision Zero Action Plan and is unique to Chatham County.

Population

76,194 (2020)

Roadway Fatalities and Serious Injuries

- 2017-2023
 - » 10 fatalities
 - » Fatality rate per 100K: 1.87
 - » 25 serious injuries
- 2018-2022
 - » 9 fatalities
 - » Fatality rate per 100K: 2.36
 - » 21 serious injuries

High Injury Network Coverage

11.72% of roadway miles cover 94% of fatal and serious injury crashes (2017-2023)

Risk Analysis Thresholds

The following provides information related to the data for each community and applicable attributes.

Pedestrian Risk

- Top 5% = “prob_ped” > 0.02
- Top 15% = “prob_ped” > 0.01 and < 0.02

Bicycle Risk

- Top 5% = “prob_bike” > 0.03
- Top 15% = “prob_bike” > 0.01 and < 0.03

Motorcycle Risk

- Top 5% = “prob_MC” > 0.03
- Top 15% = “prob_MC” > 0.00 and < 0.03

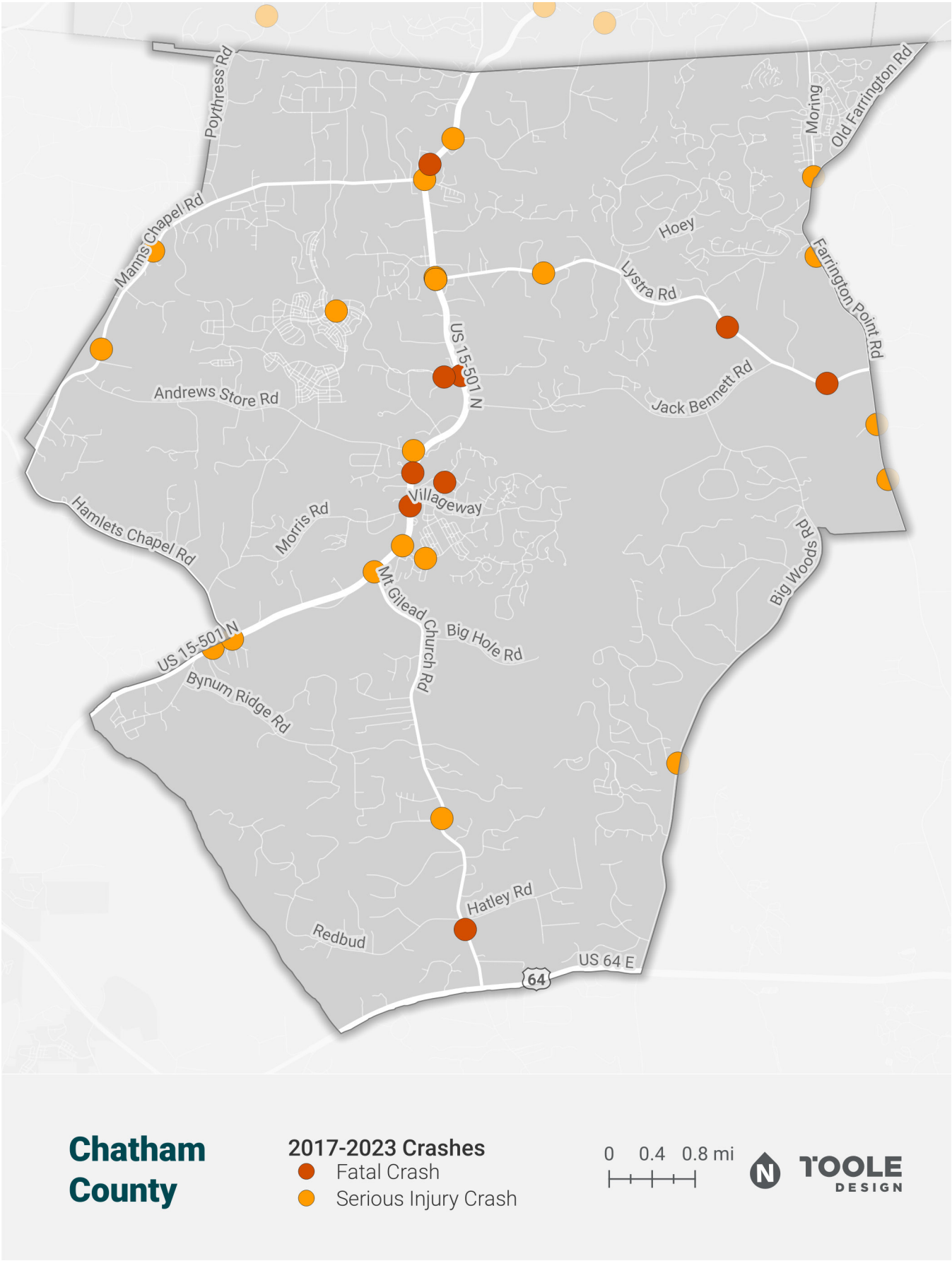
Speed Risk

- Top 5% = “prob_speed” > 0.12
- Top 15% = “prob_speed” > 0.02 and < 0.12

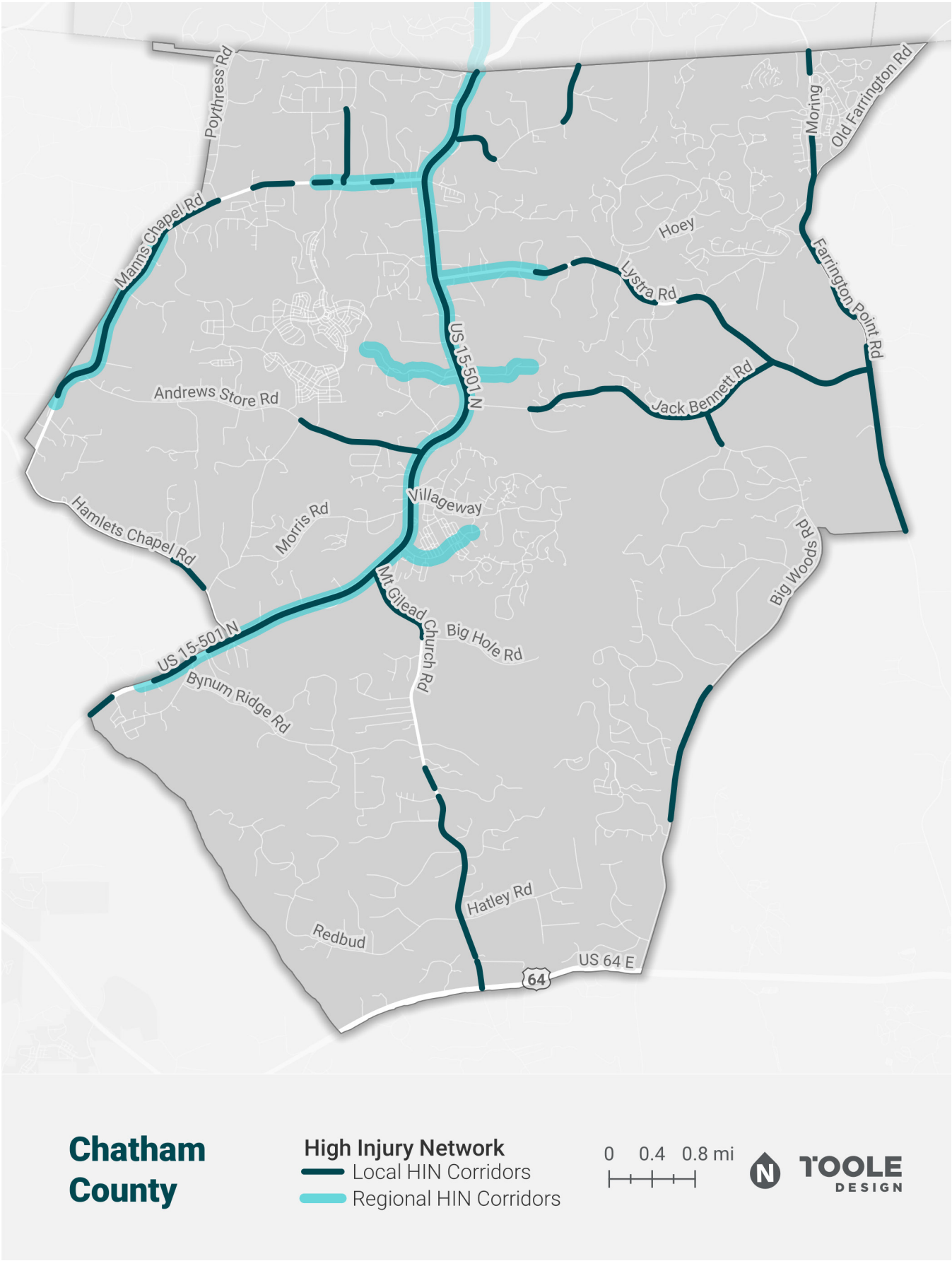
Lane Departure Risk

- Top 5% = “prob_LD” > 0.36
- Top 15% = “prob_LD” > 0.08 and < 0.36

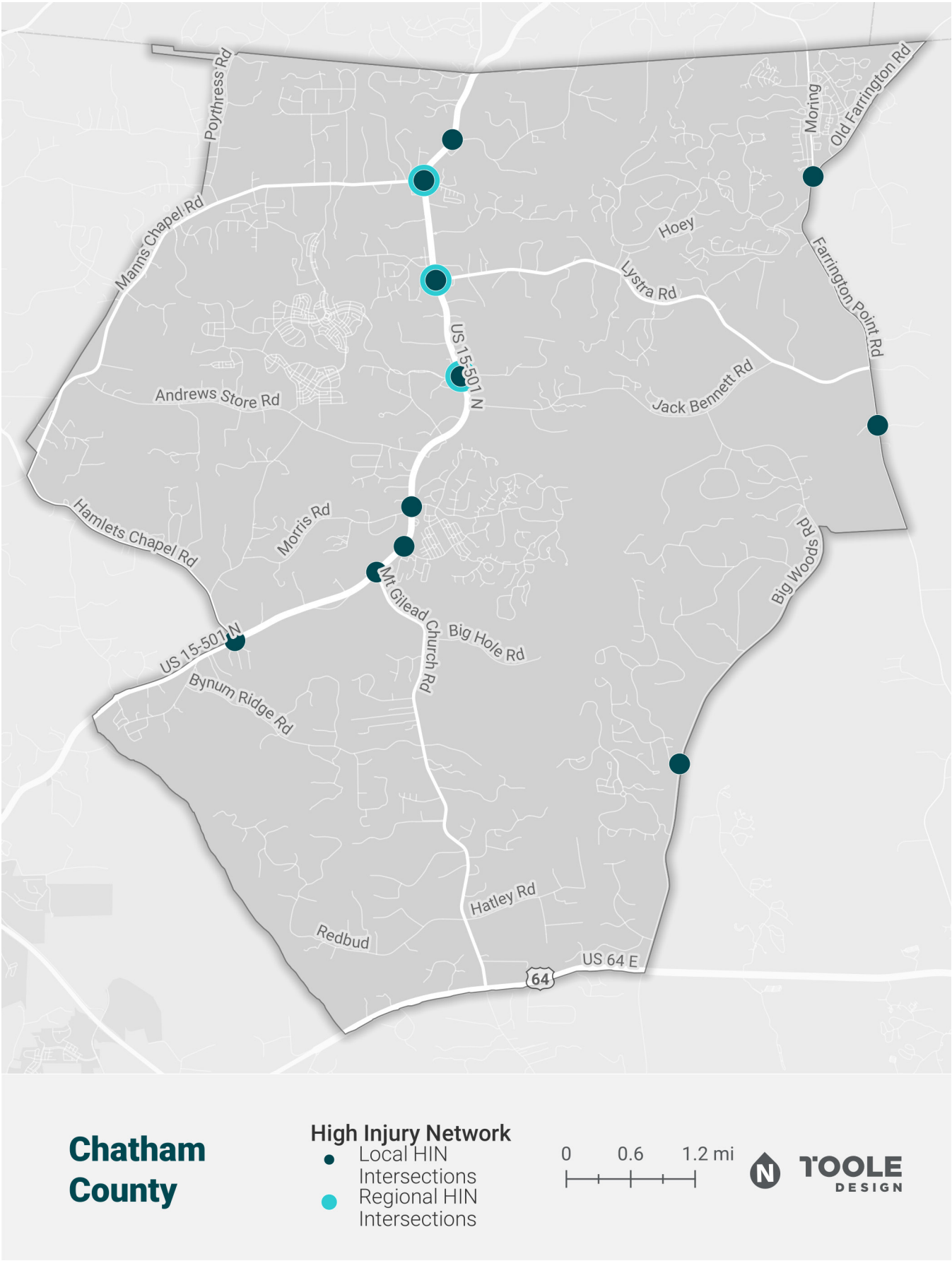
MAP 79 Chatham County Crash Map



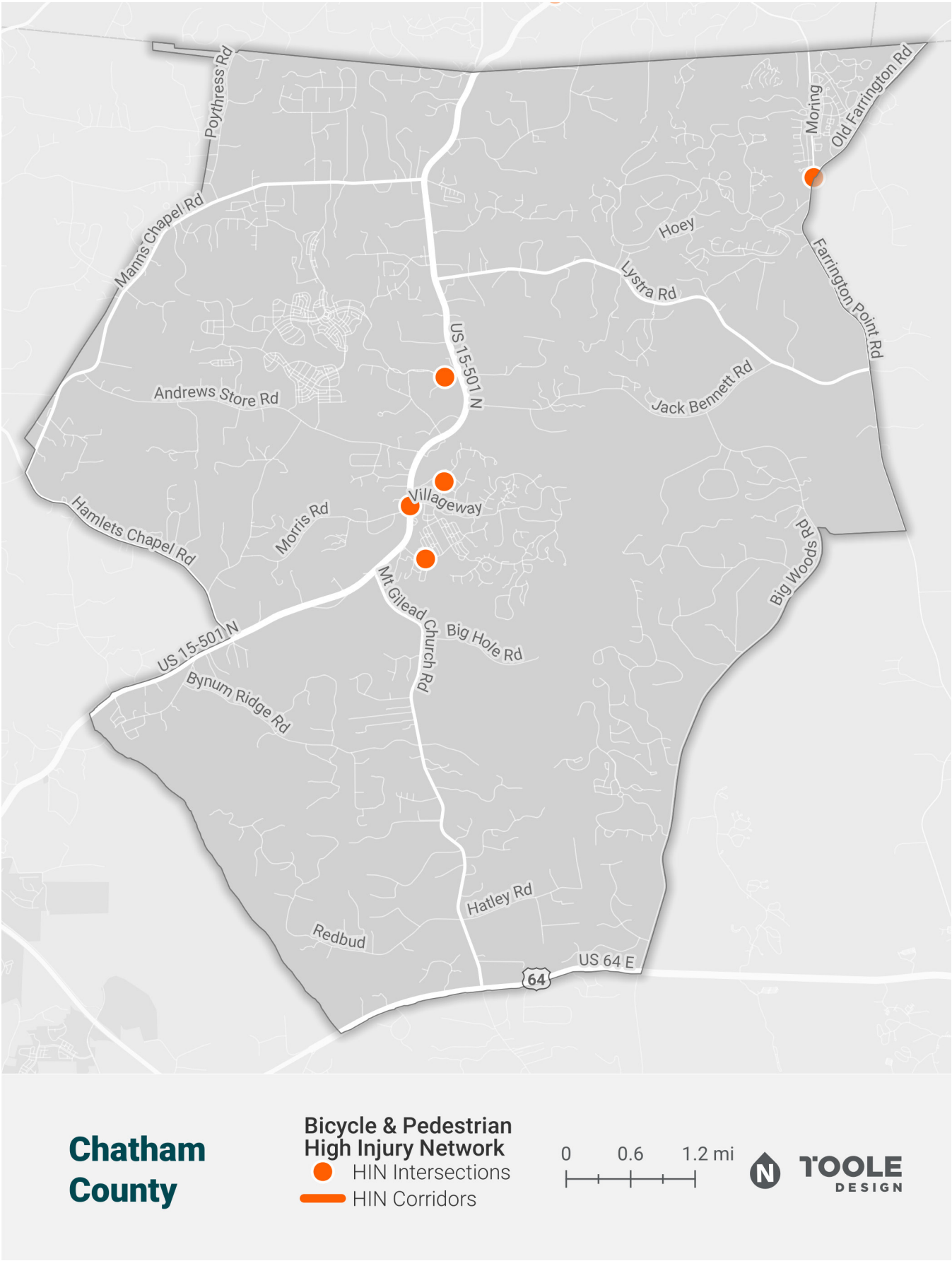
MAP 80 Chatham County High Injury Network Map



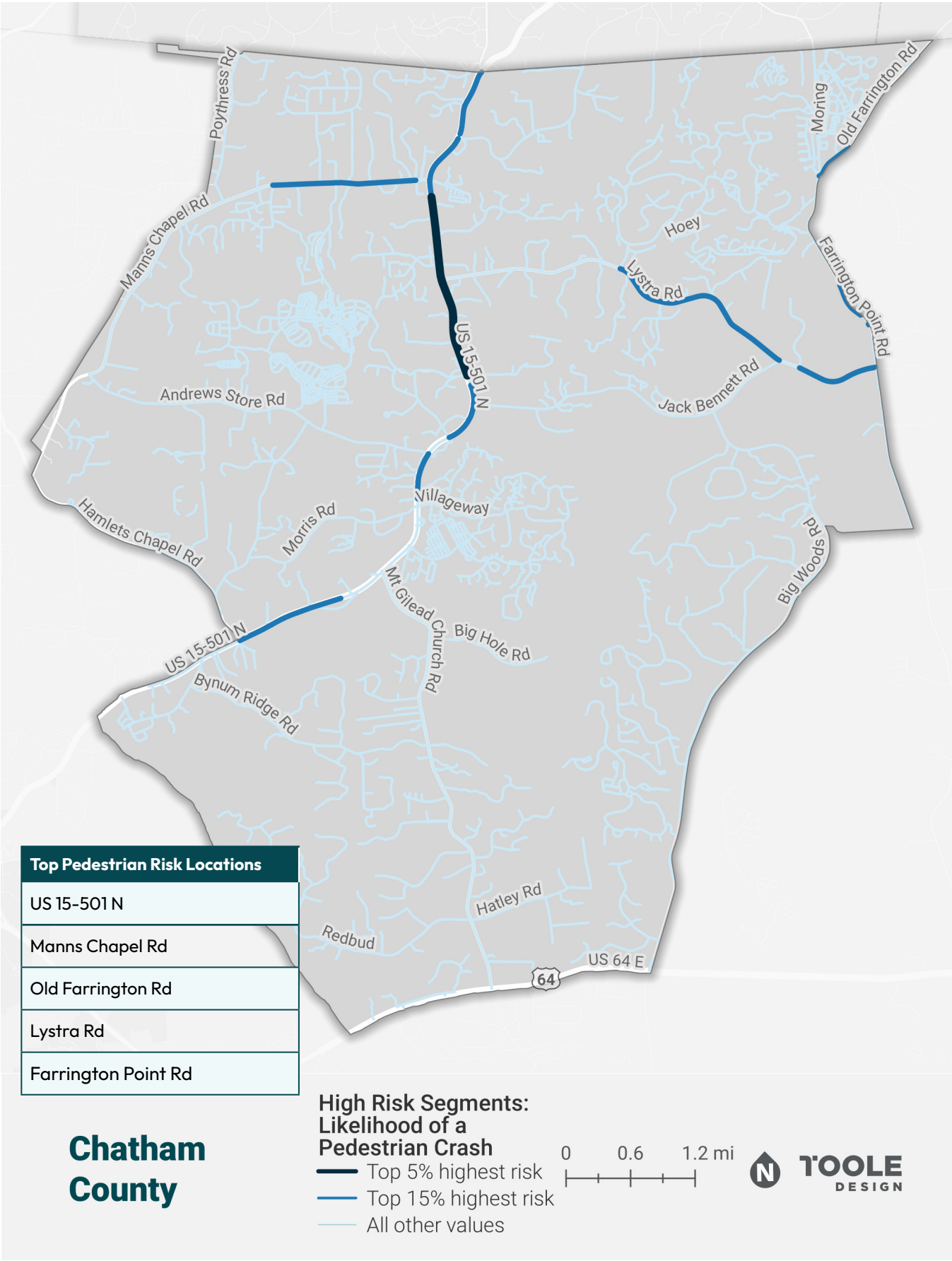
MAP 81 Chatham County High Injury Intersections Map



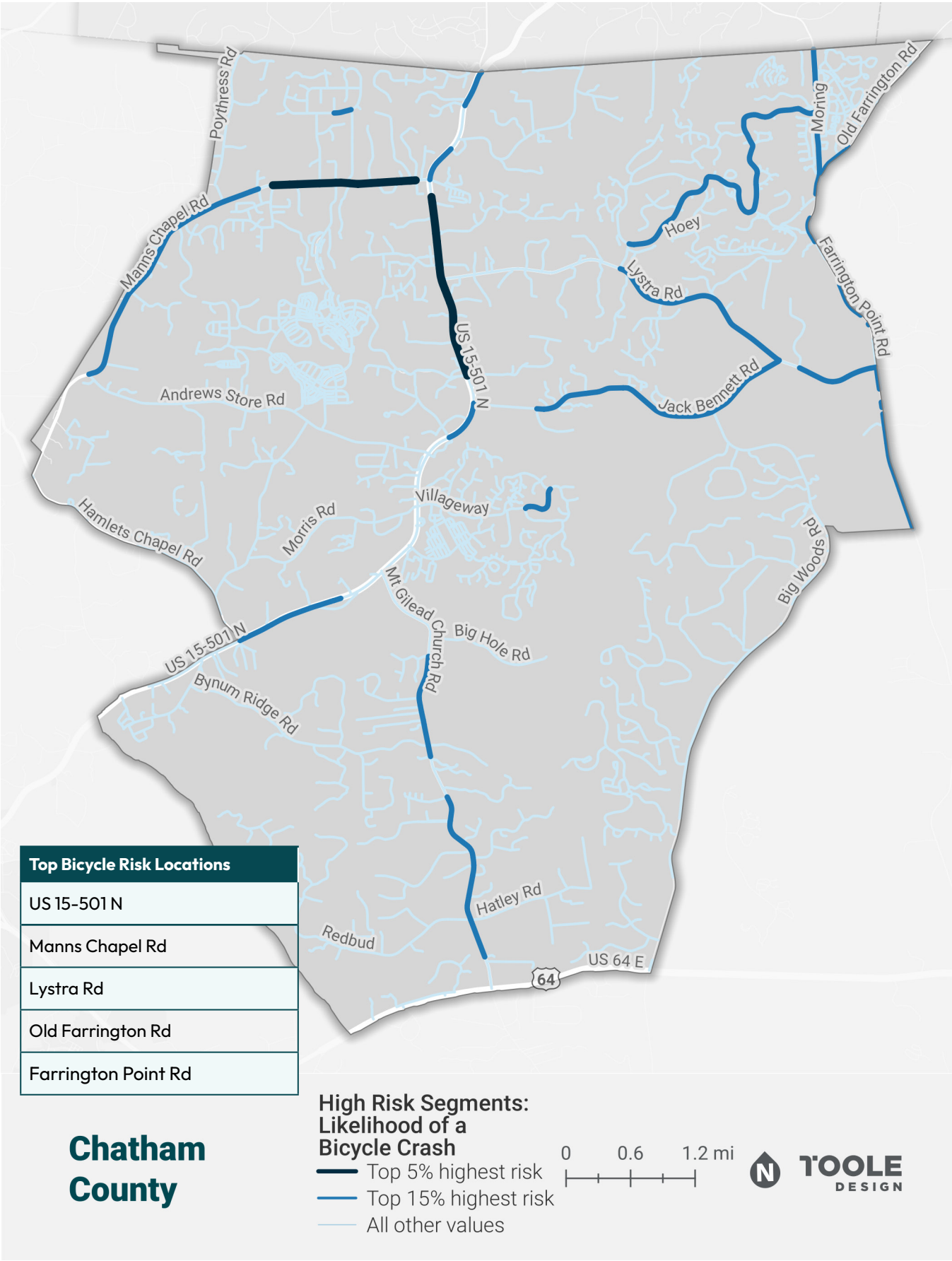
MAP 82 Chatham County VRU High Injury Corridors and Intersections Map



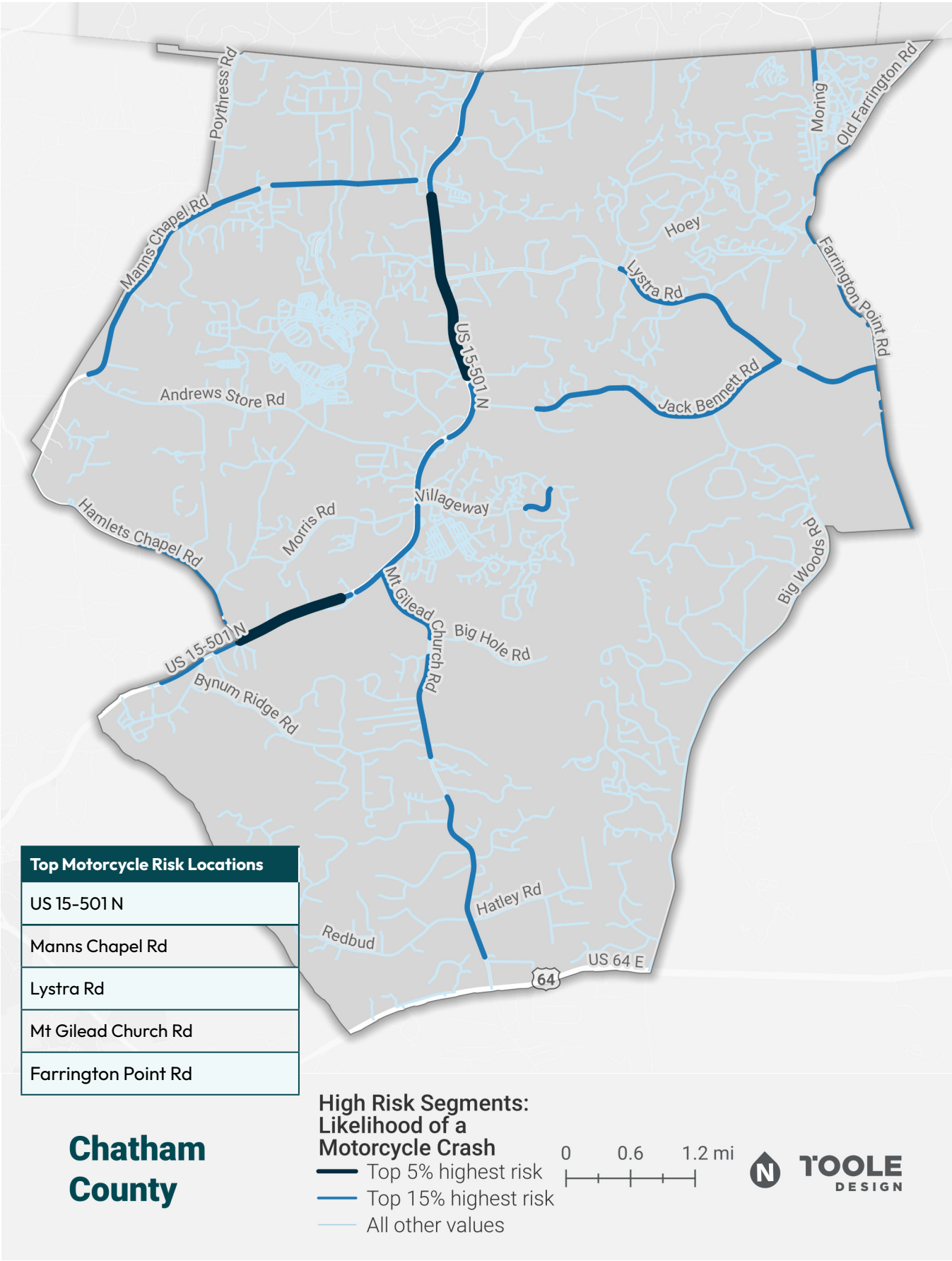
MAP 83 Chatham County High Risk Corridors Map: Pedestrian Risk



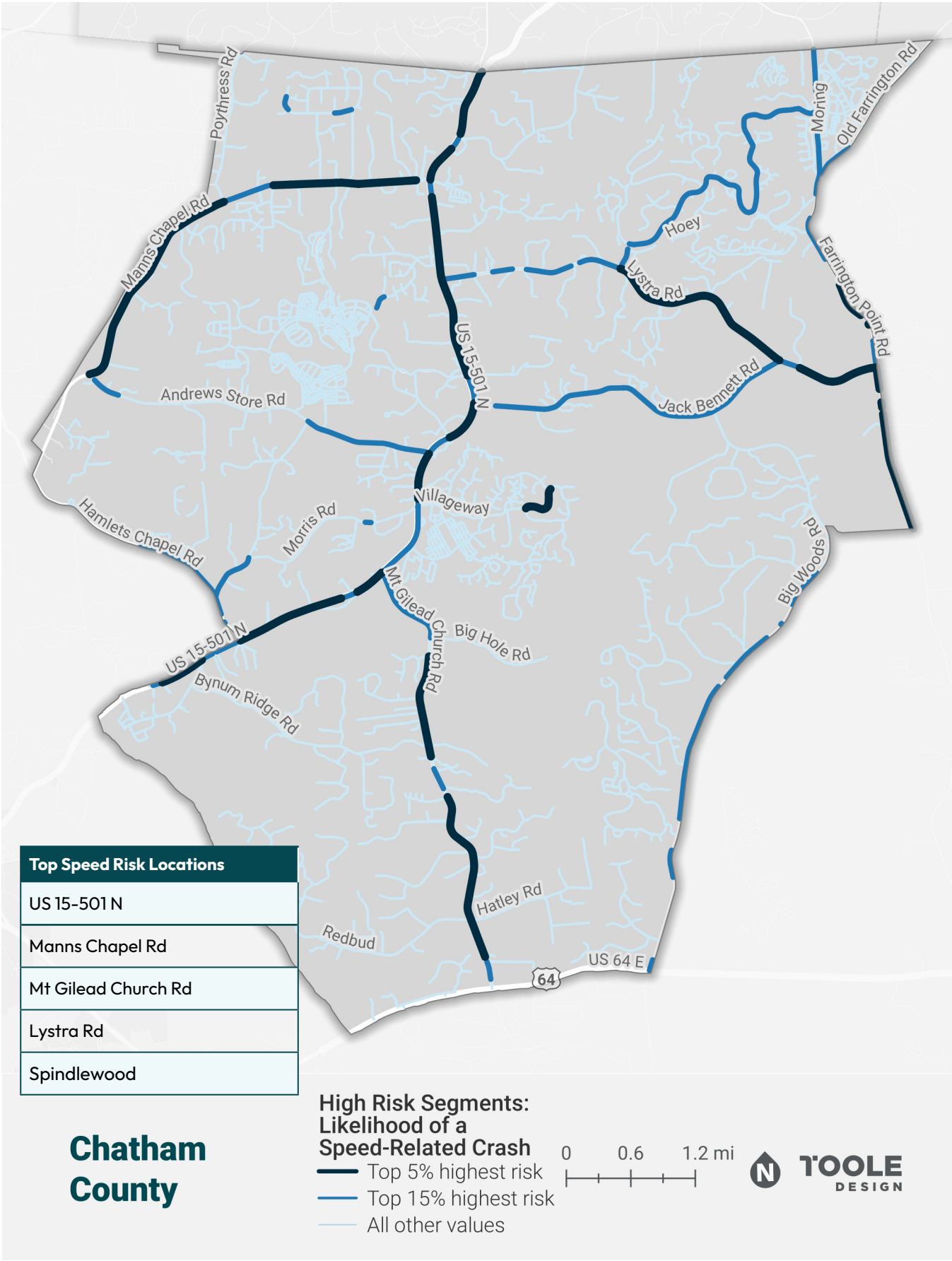
MAP 84 Chatham County High Risk Corridors Map: Bicycle Risk



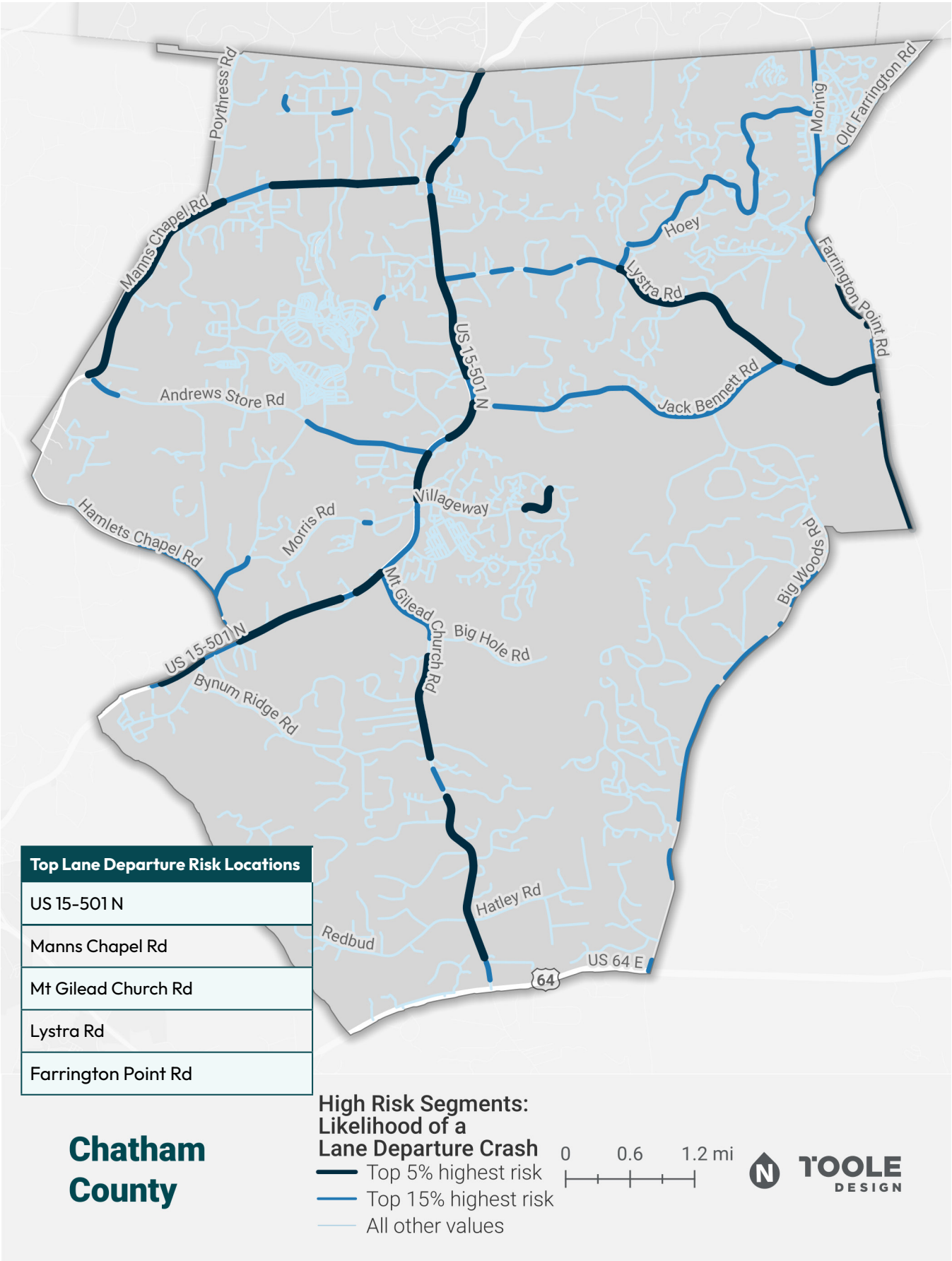
MAP 85 Chatham County High Risk Corridors Map: Motorcycle Risk



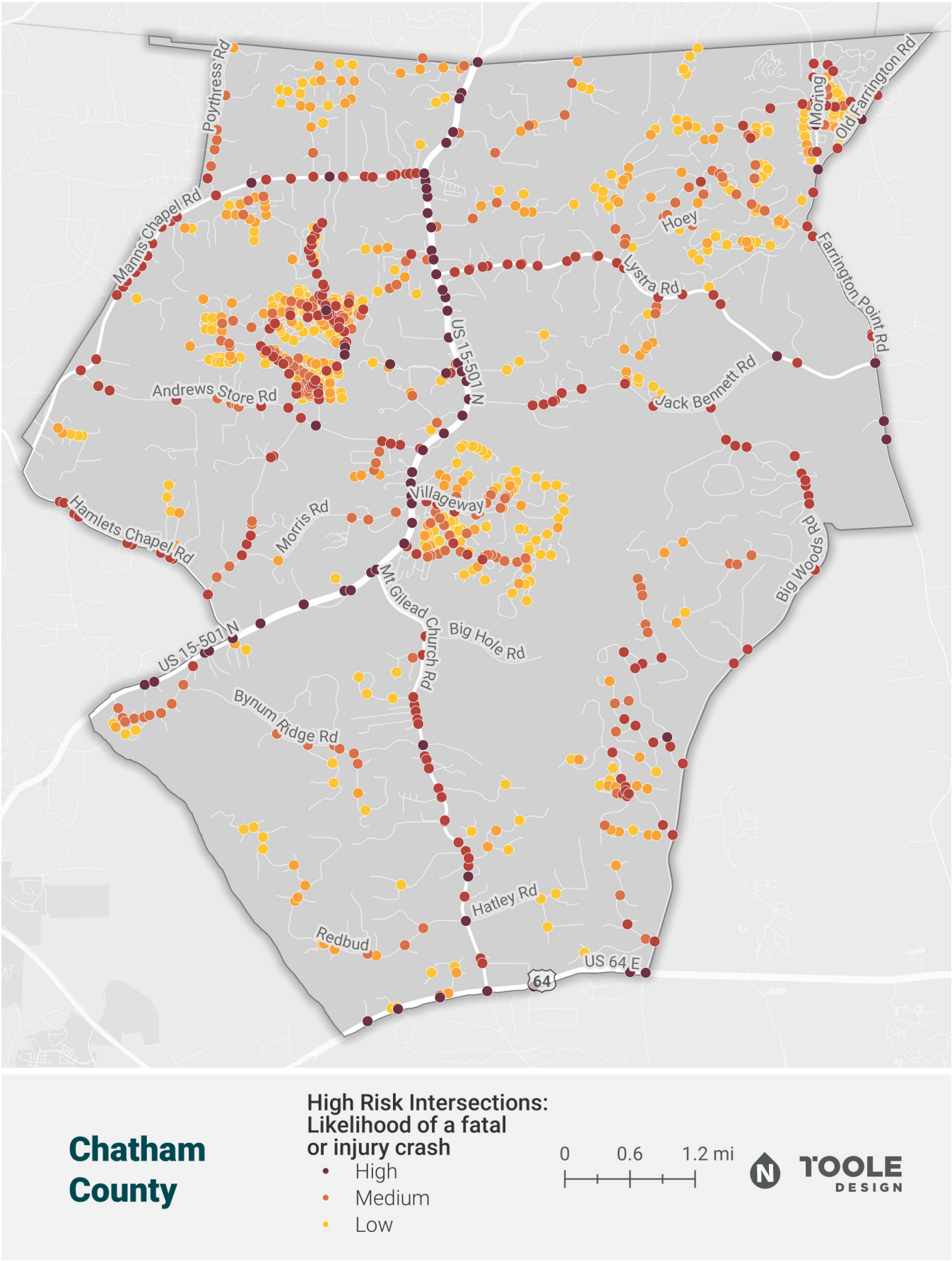
MAP 86 Chatham County High Risk Corridors Map: Speed Risk



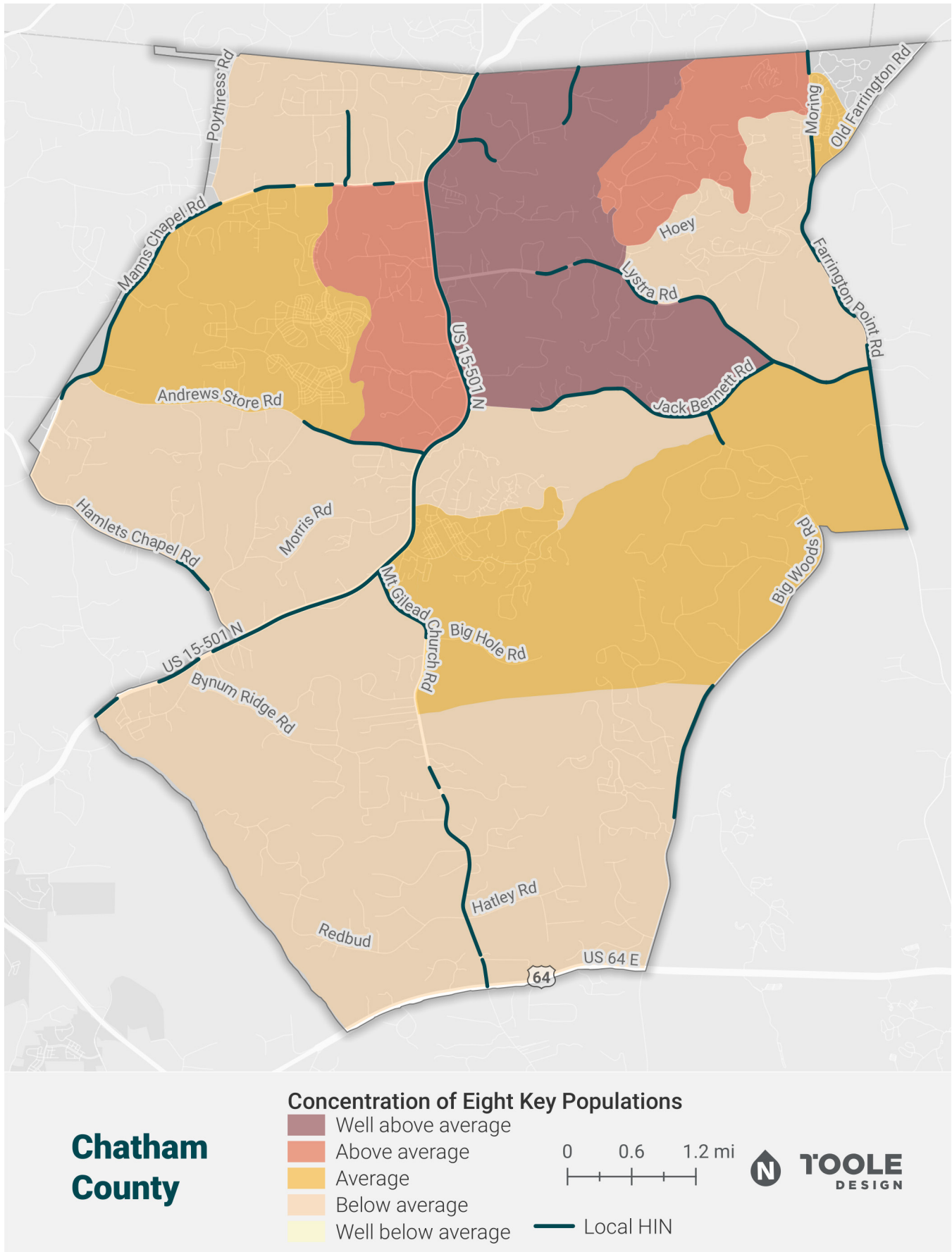
MAP 87 Chatham County High Risk Corridors Map: Lane Departure Risk



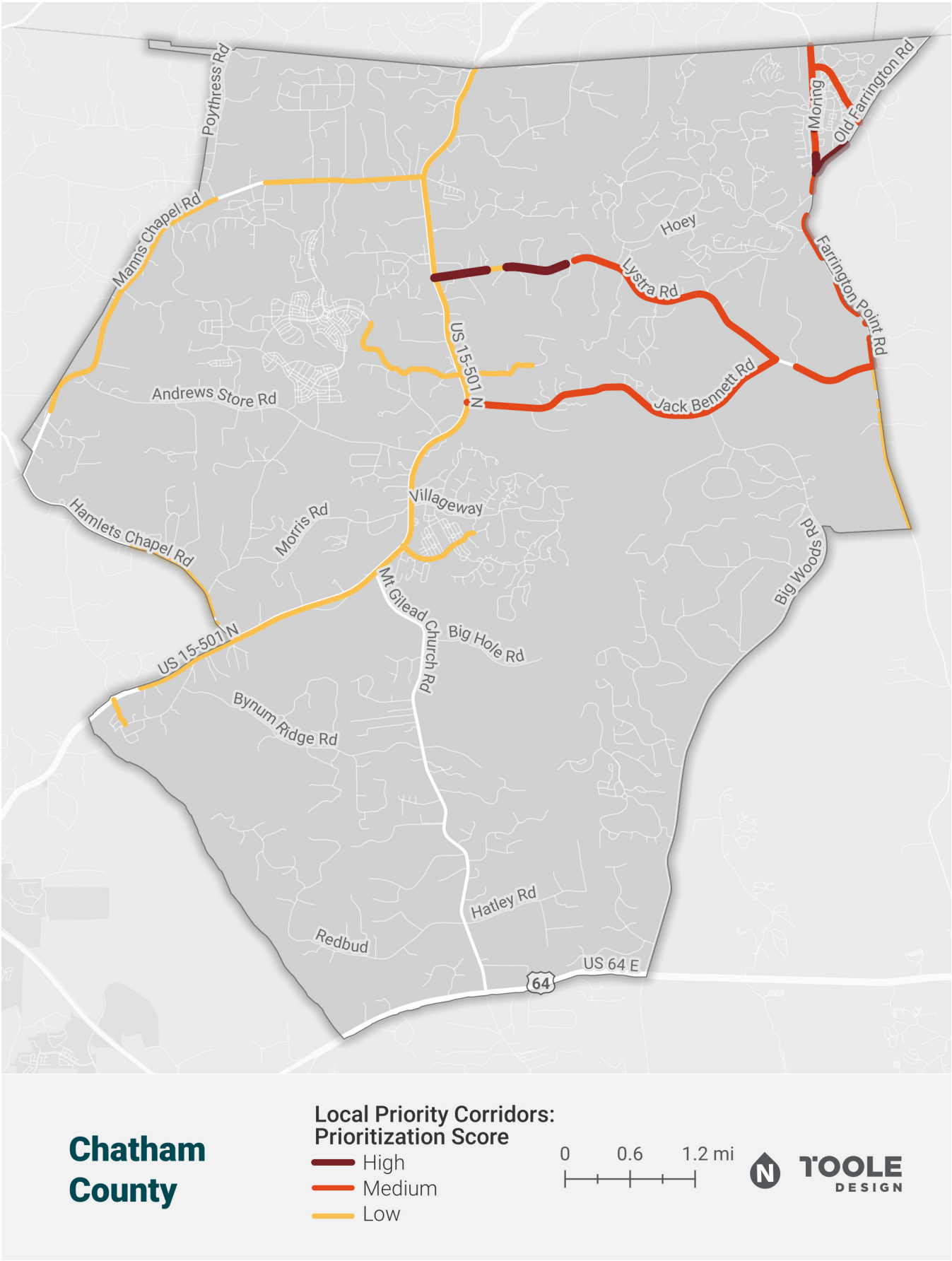
MAP 88 Chatham County High Risk Intersections Map



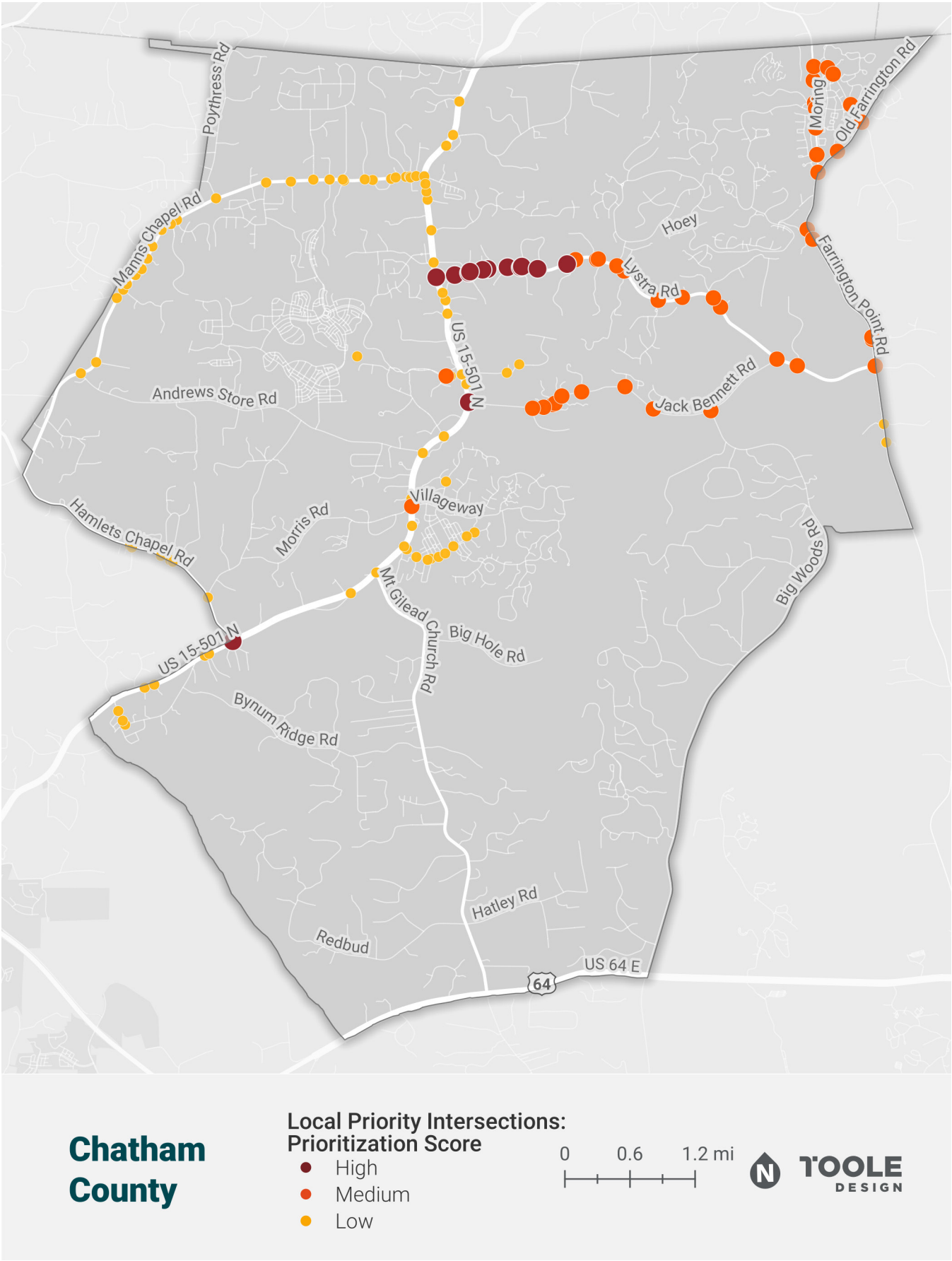
MAP 89 Chatham County Indicators of Potential Disadvantage and HIN Map



MAP 90 Chatham County Priority Corridors Map



MAP 91 Chatham County Priority Intersections Map



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