

Figure 1: Estimated NC 54 Travelshed for Trips to Chapel Hill



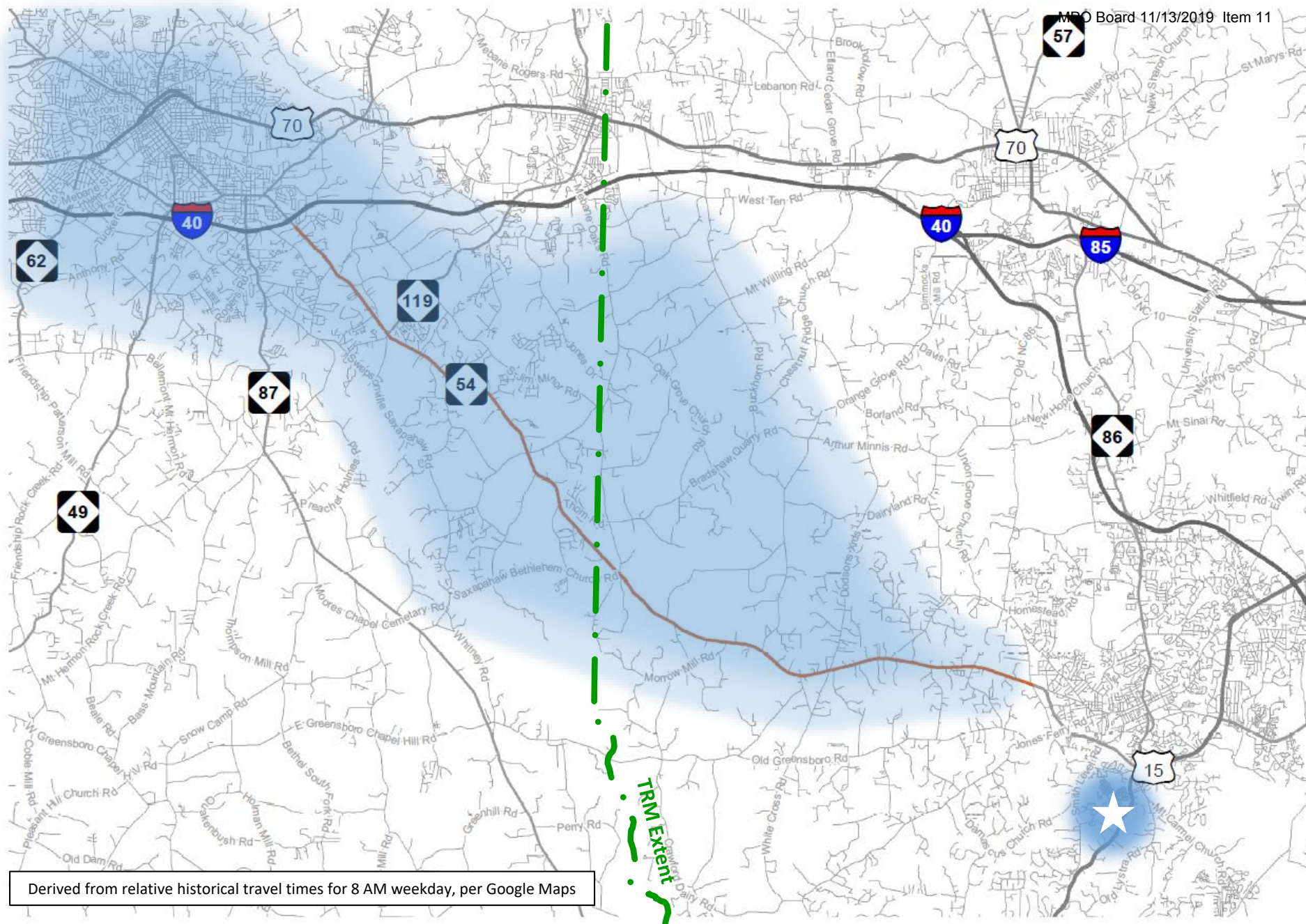


Figure 2: Estimated NC 54 Travelshed for Trips to Southern Village



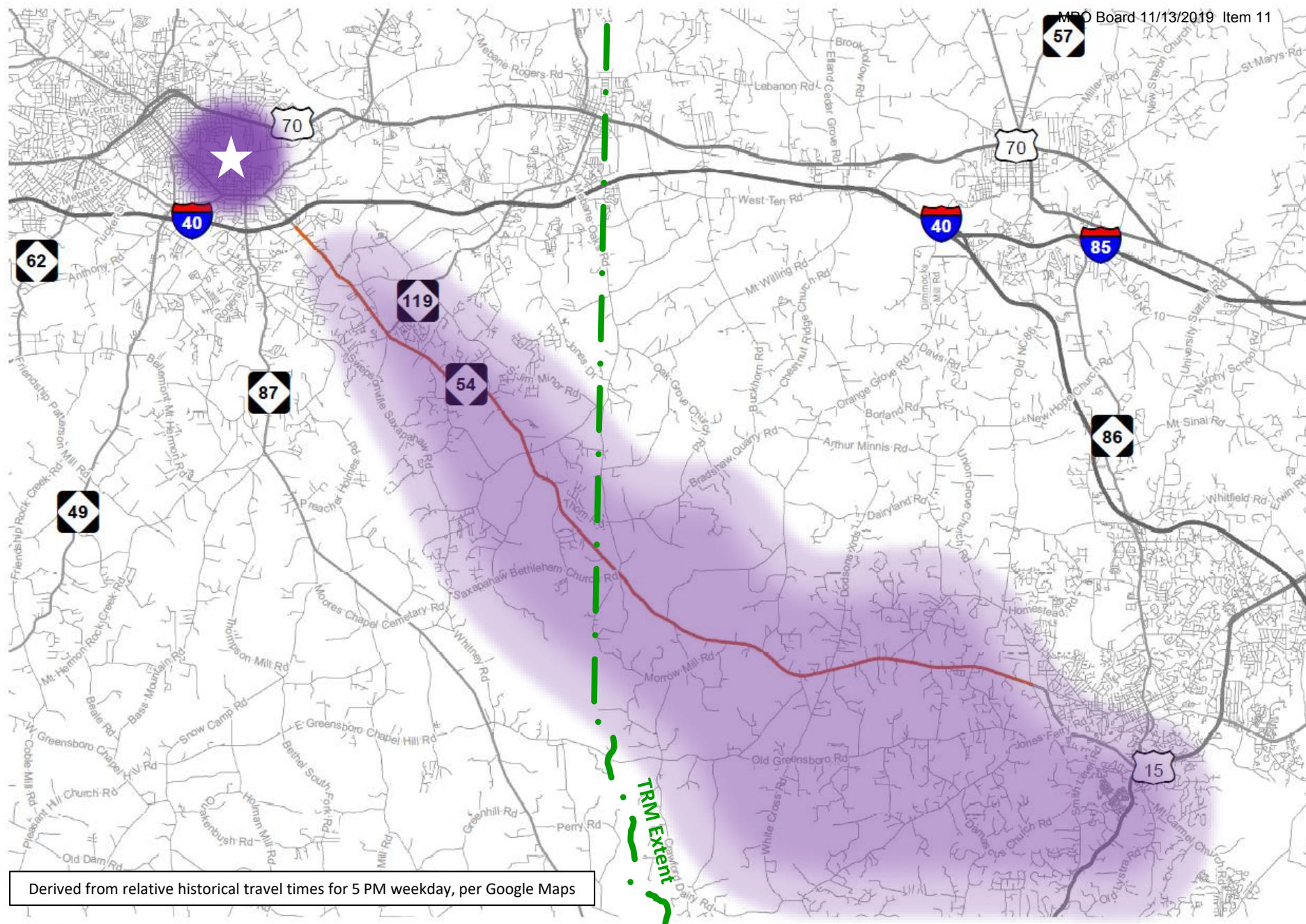
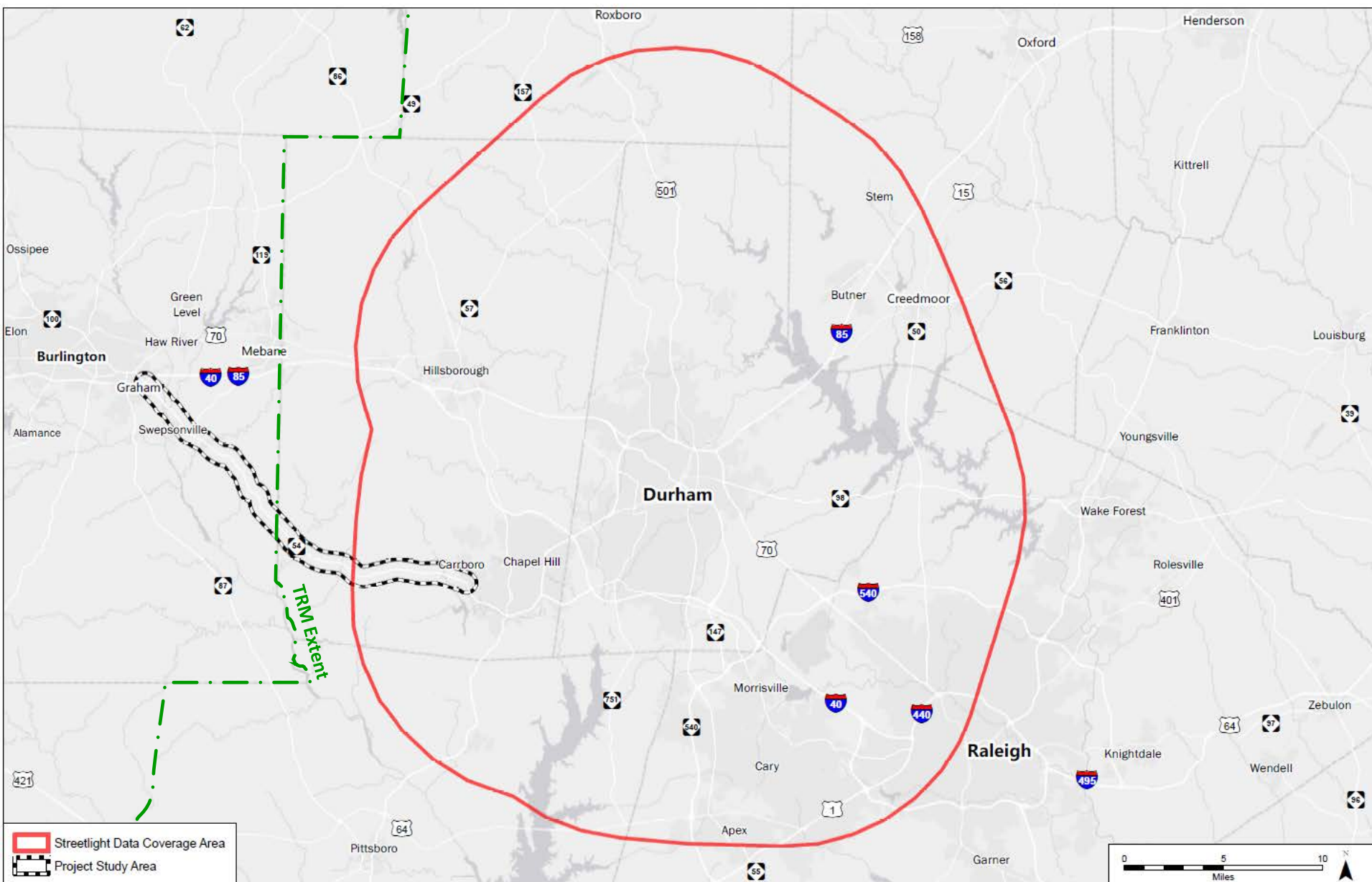


Figure 3: Estimated NC 54 Travelshed for Trips to Burlington





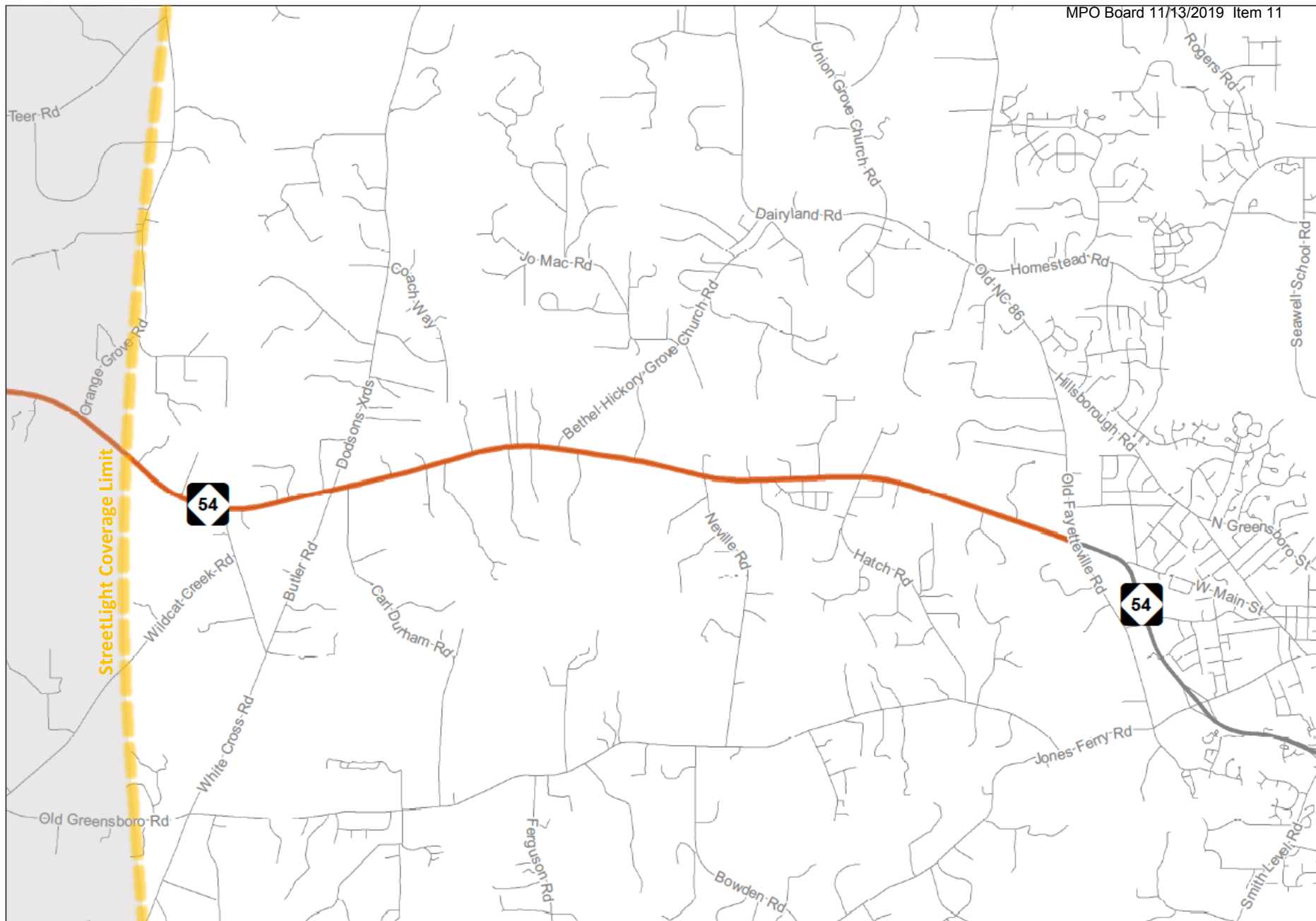
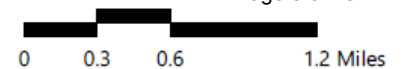


Figure 5: NC 54 Corridor Segment for StreetLight Origin-Destination Analysis



Daily Vehicle-Trip Distribution (StreetLight InSight Data)

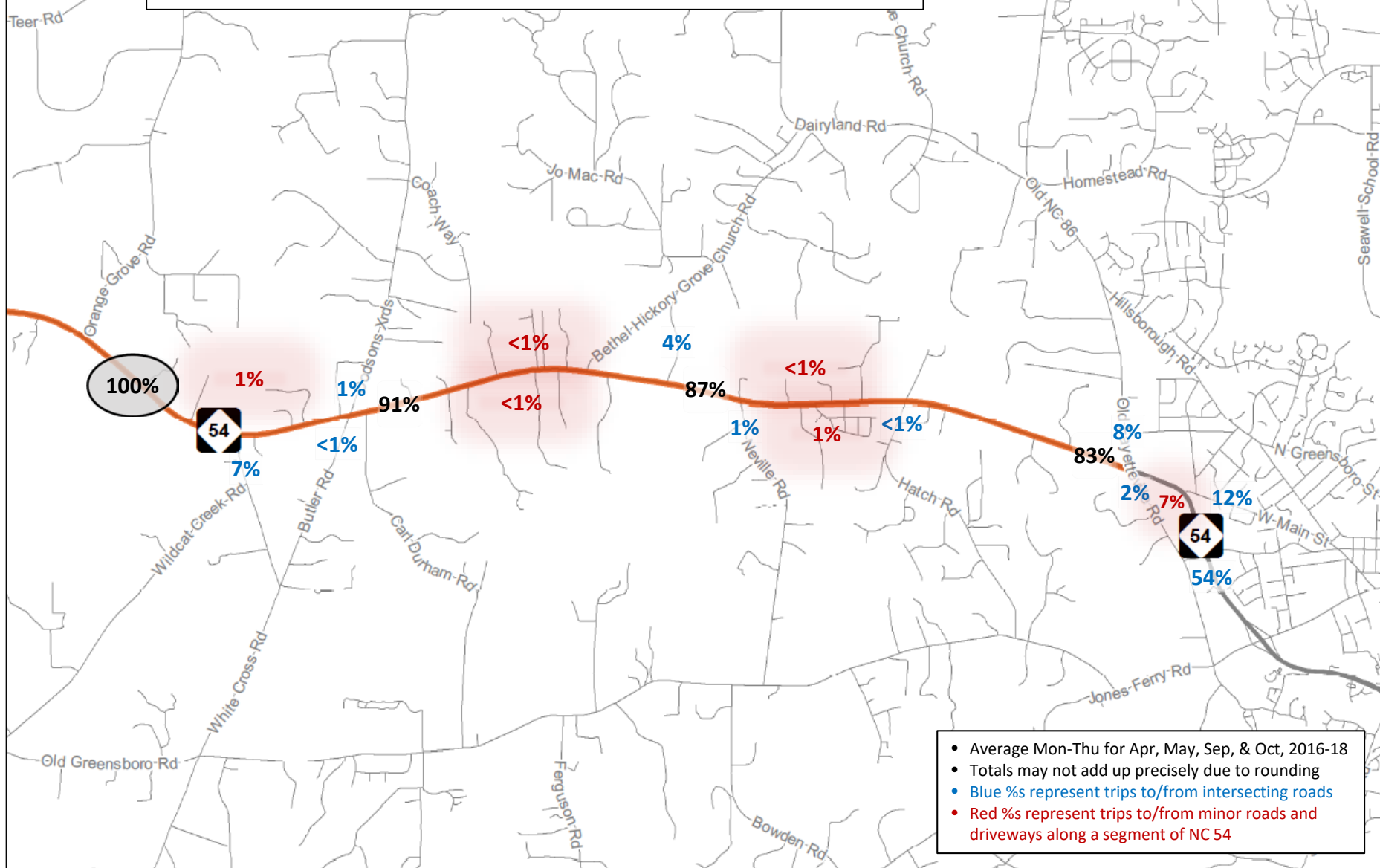


Figure 6: Origin-Destination Analysis – NC 54 East of Orange Grove Road

AM Peak Vehicle-Trip Distribution (StreetLight InSight Data)

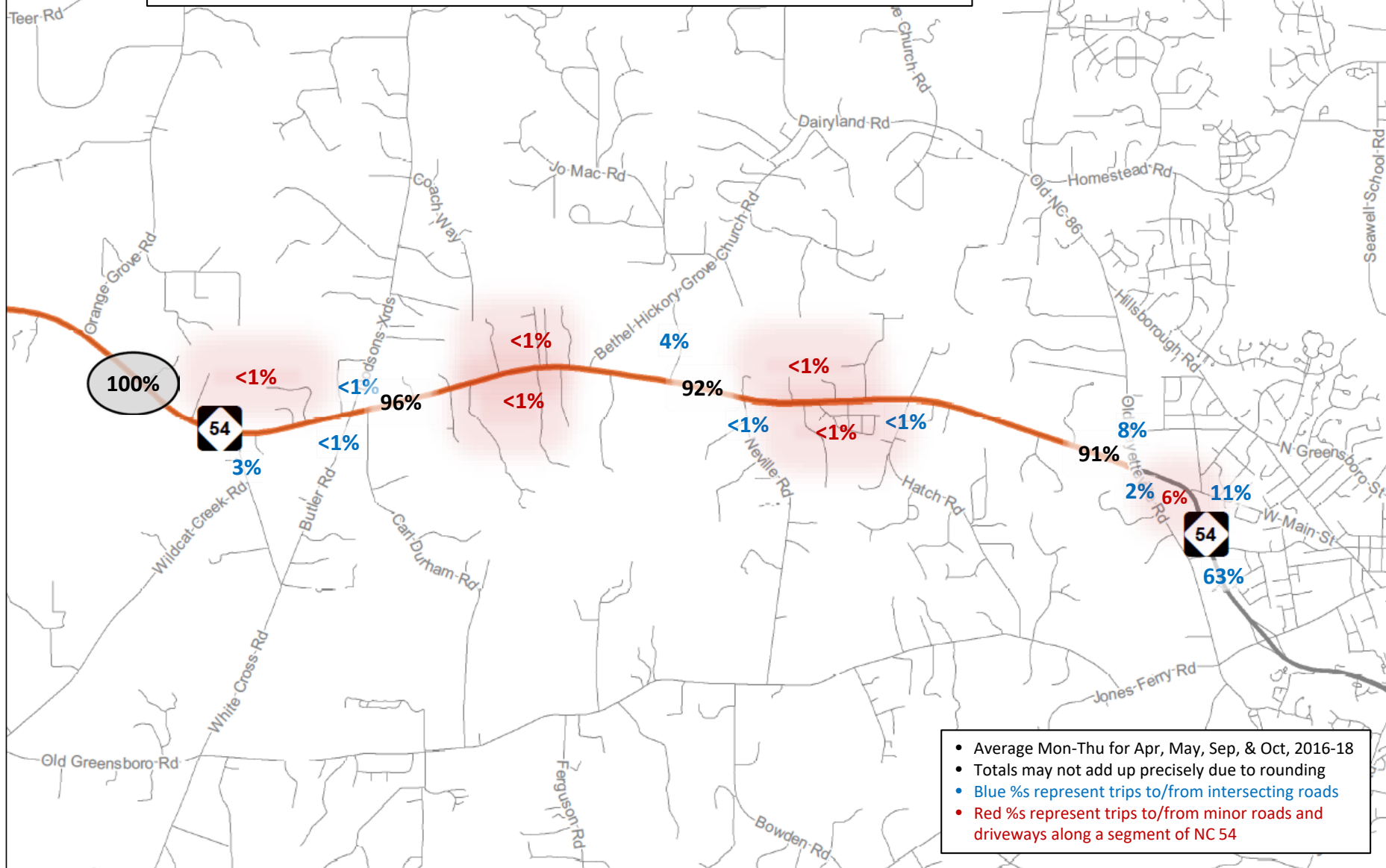


Figure 7: Origin-Destination Analysis – NC 54 East of Orange Grove Road

Daily Vehicle-Trip Distribution (StreetLight InSight Data)

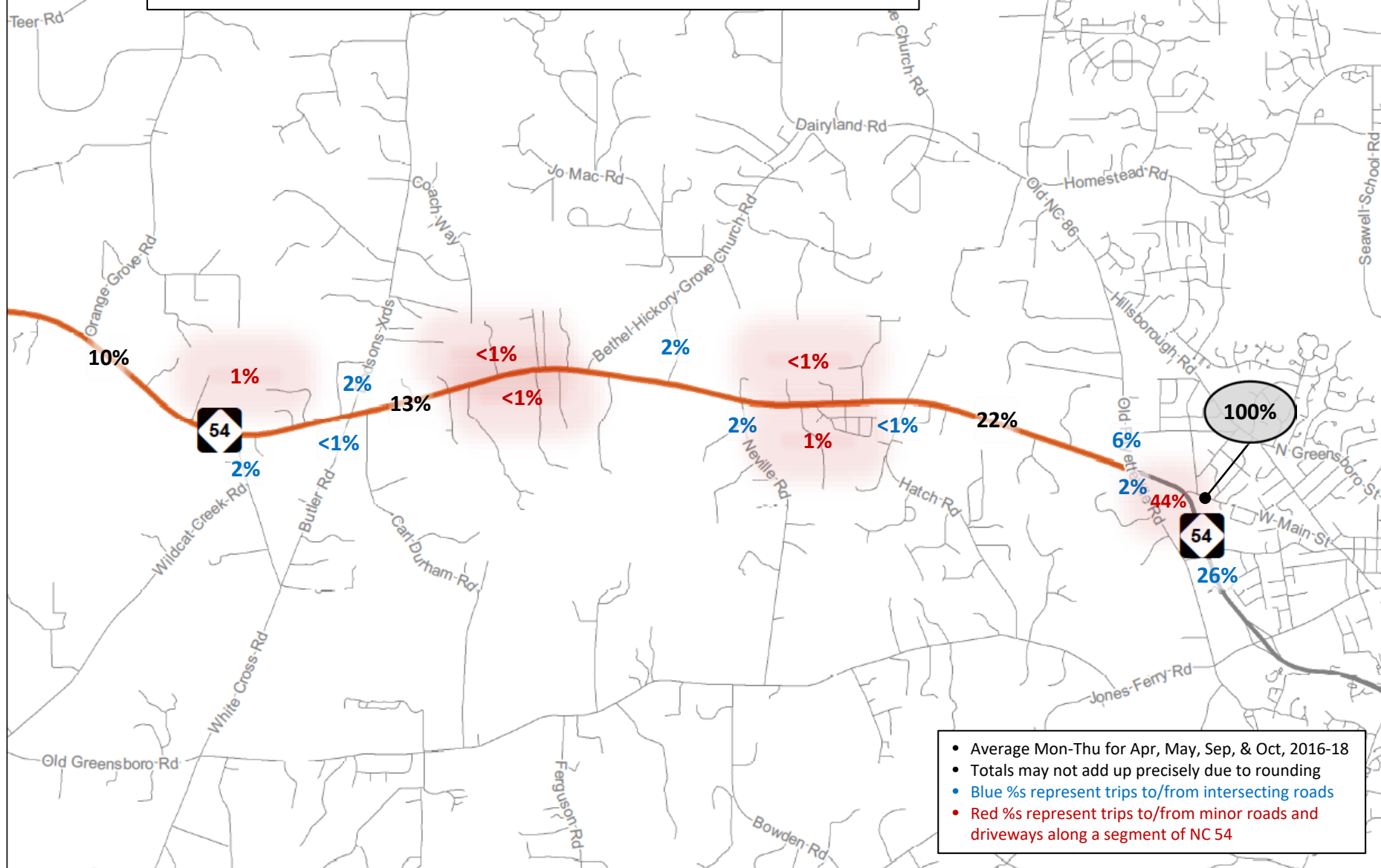


Figure 8: Origin-Destination Analysis – West Main St East of NC 54 Bypass

Daily Vehicle-Trip Distribution (StreetLight InSight Data)

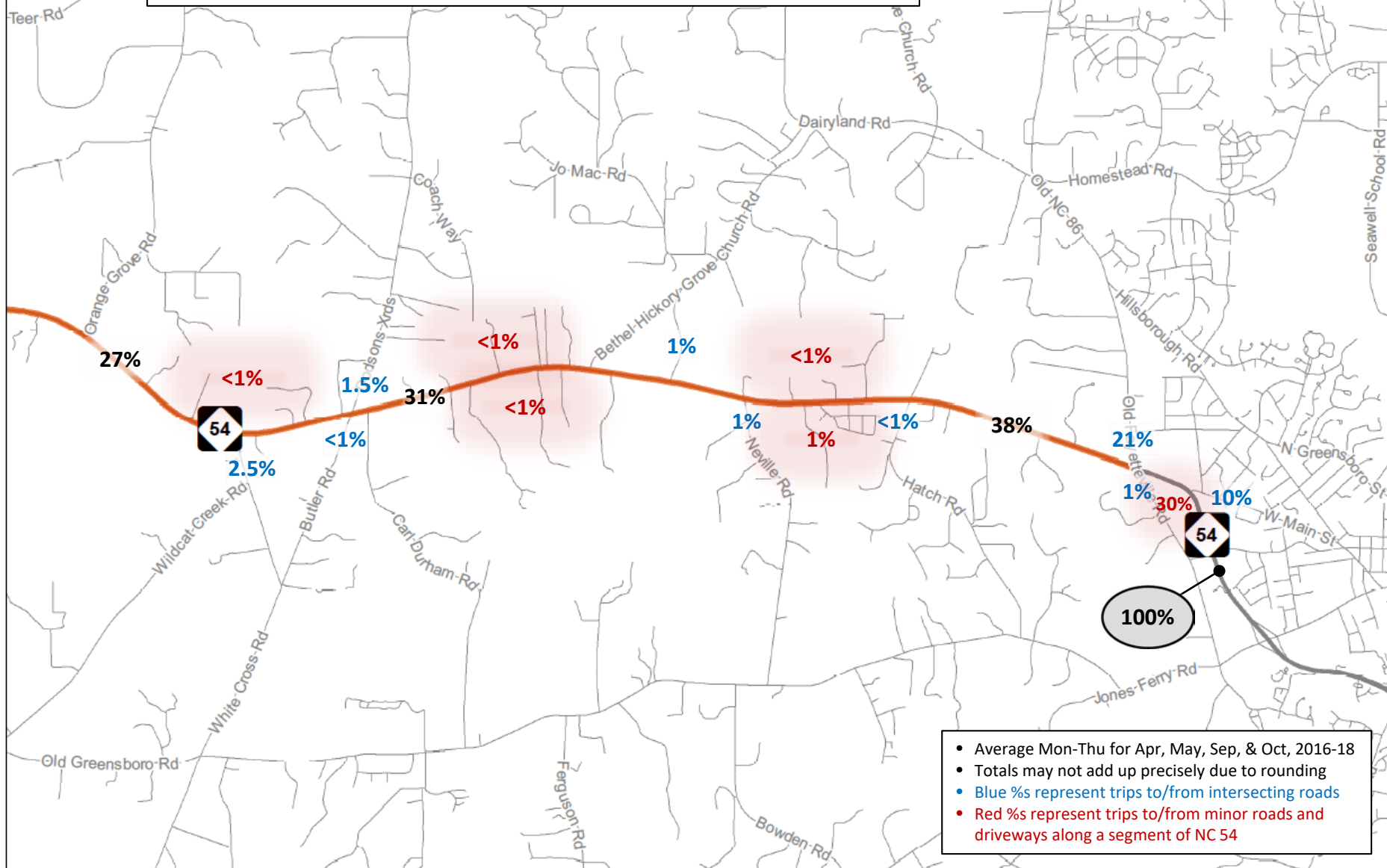


Figure 9: Origin-Destination Analysis –NC 54 Bypass South of West Main St

Figure 10a: TRM & PTRM Population Growth (2013 – 2045)

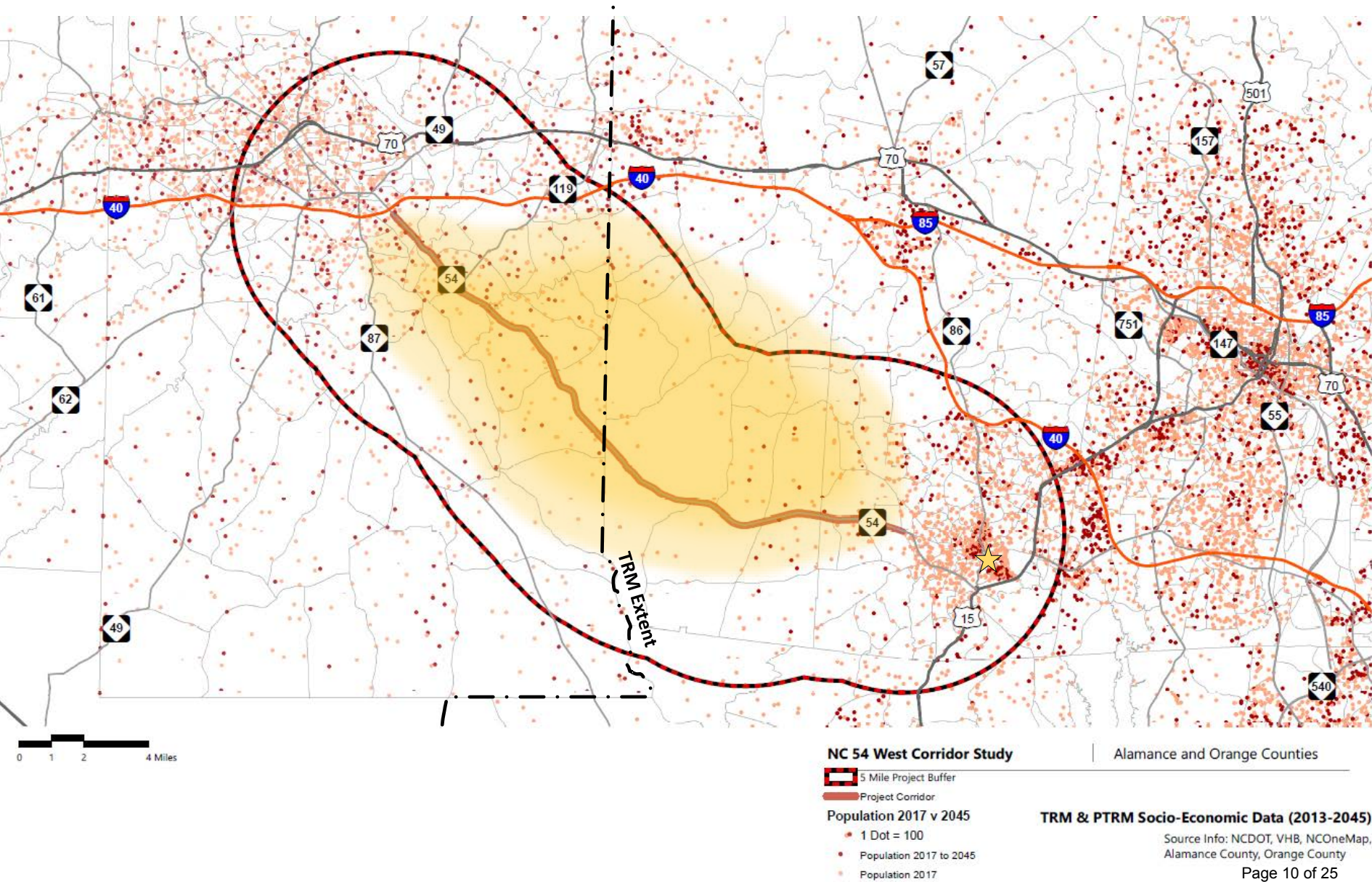
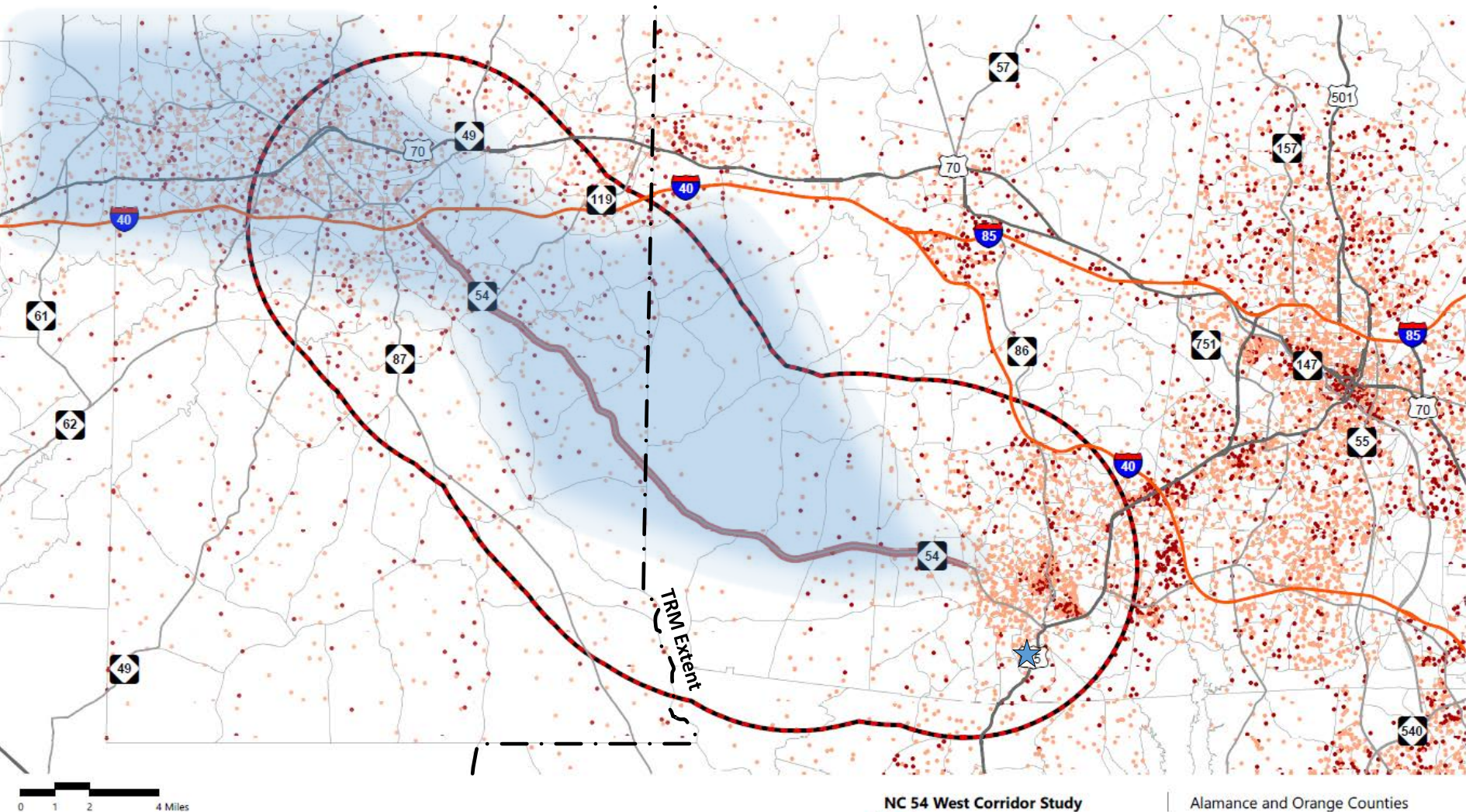


Figure 10b: TRM & PTRM Population Growth (2013 – 2045)



NC 54 West Corridor Study

Alamance and Orange Counties

5 Mile Project Buffer

Project Corridor

Population 2017 v 2045

1 Dot = 100

Population 2017 to 2045

Population 2017

TRM & PTRM Socio-Economic Data (2013-2045)

Source Info: NCDOT, VHB, NCOneMap,
Alamance County, Orange County

Page 11 of 25

Figure 10c: TRM & PTRM Population Growth (2013 – 2045)

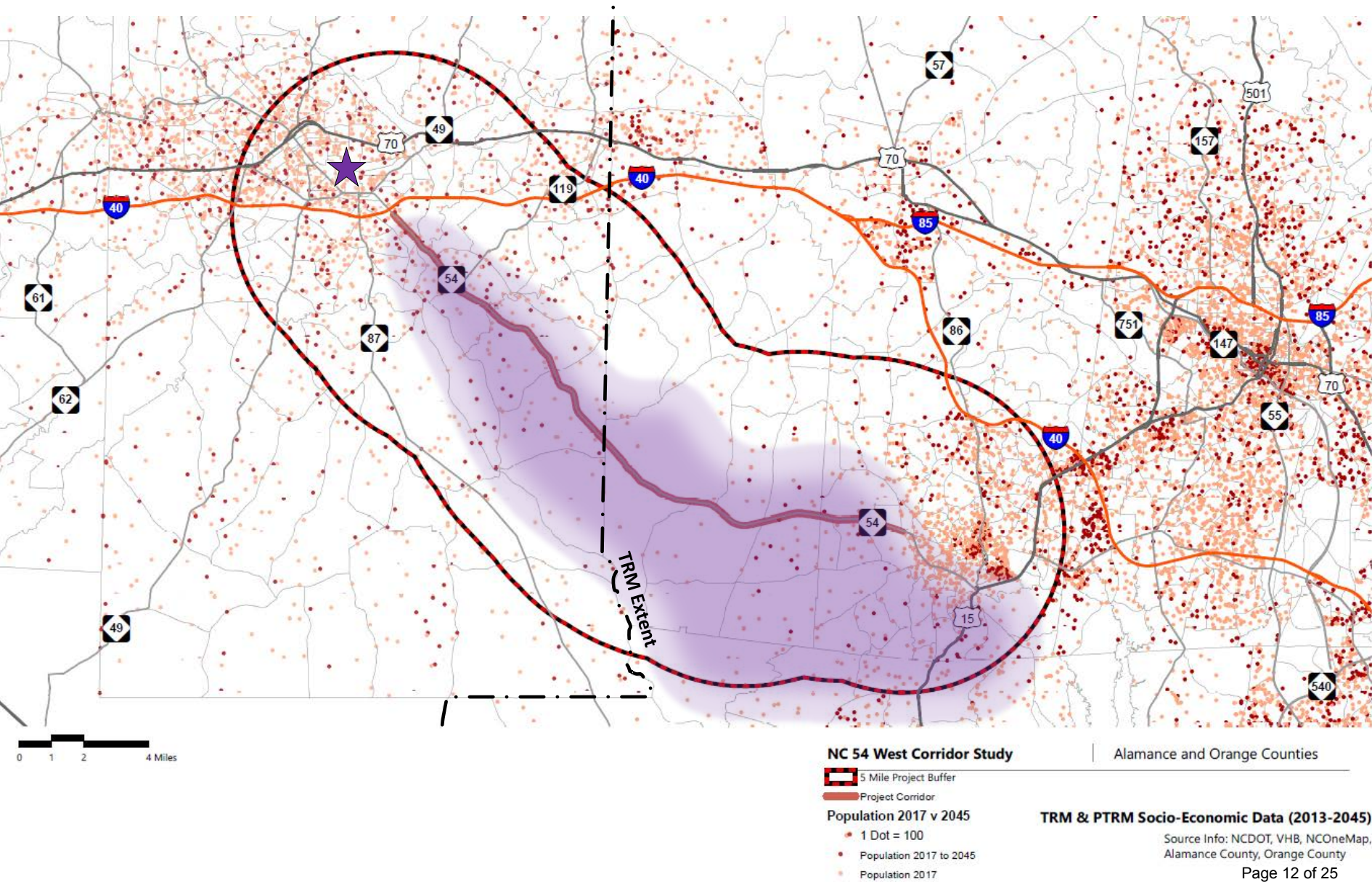


Figure 11a: TRM & PTRM Employment Growth (2013 – 2045)

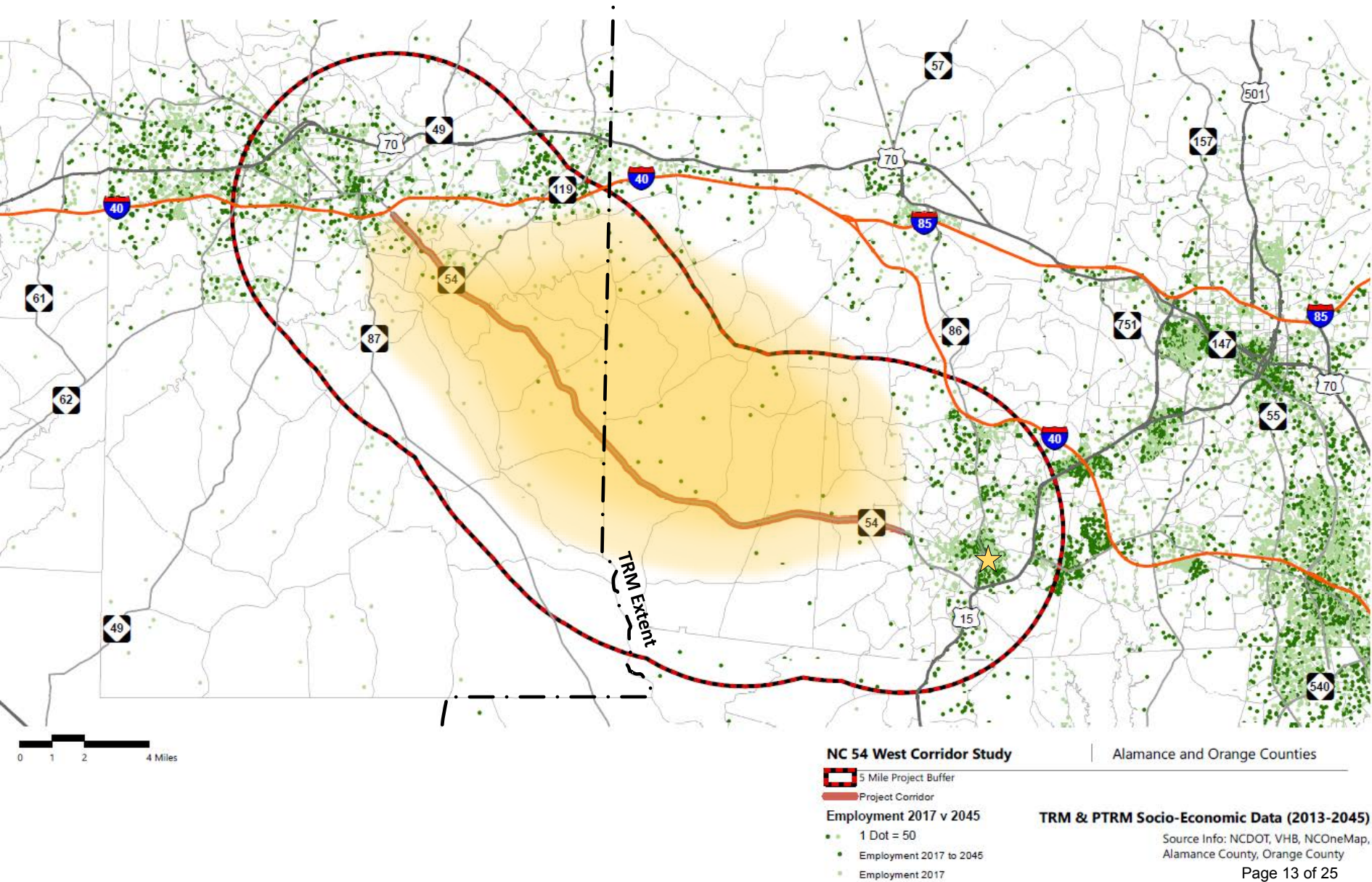


Figure 11b: TRM & PTRM Employment Growth (2013 – 2045)

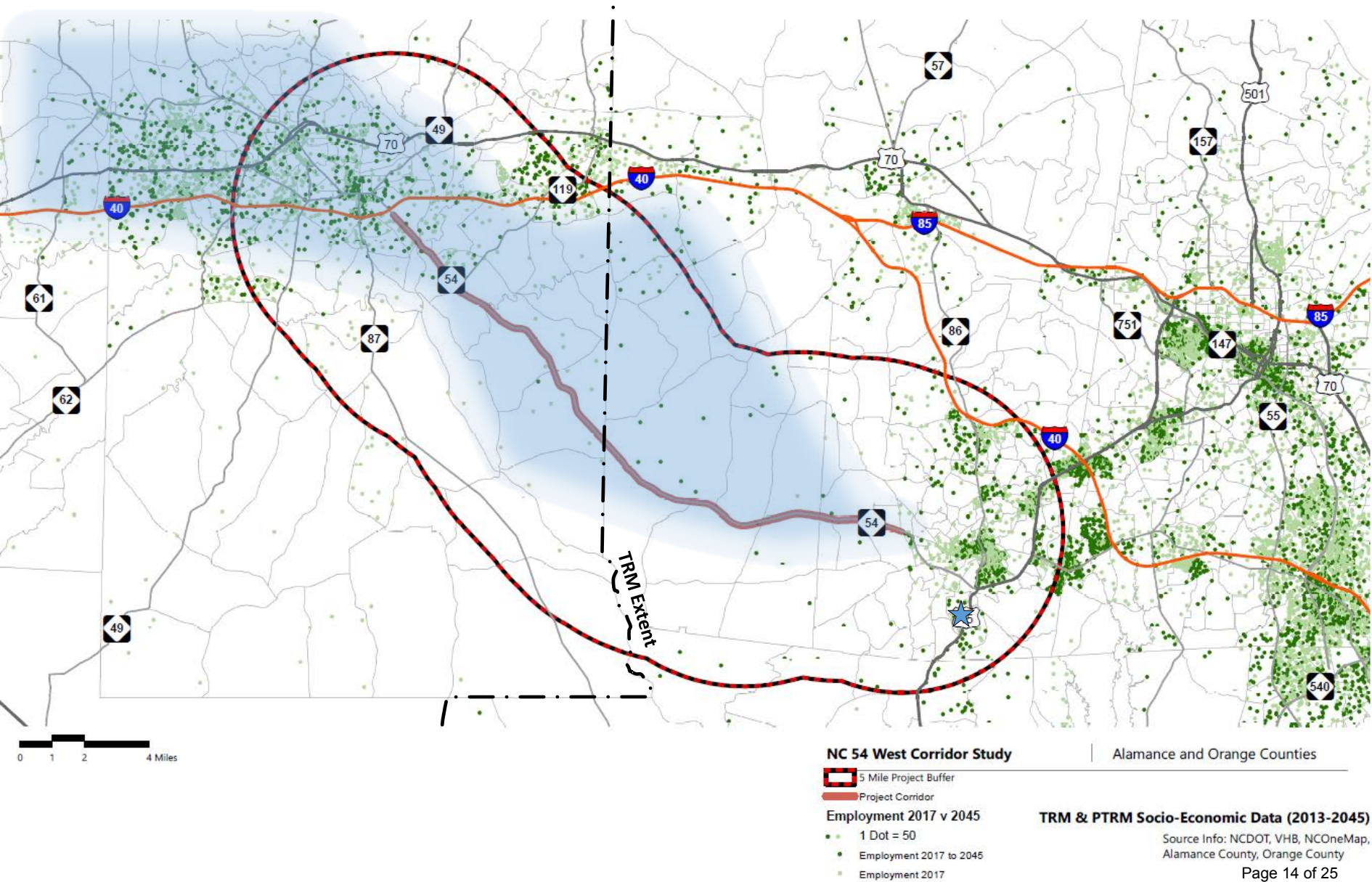
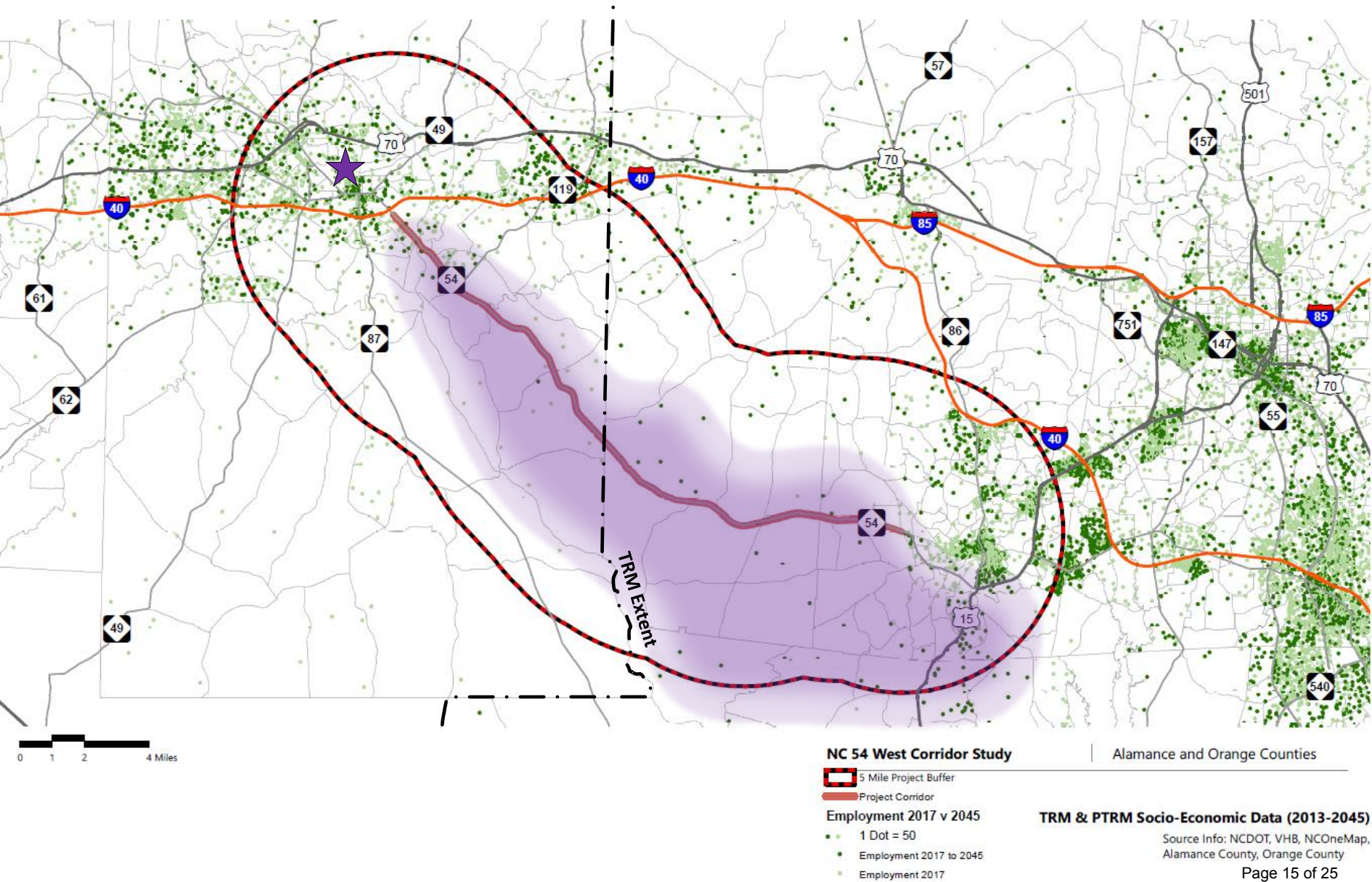


Figure 11c: TRM & PTRM Employment Growth (2013 – 2045)



Daily Vehicle-Trip Distribution (TRM)

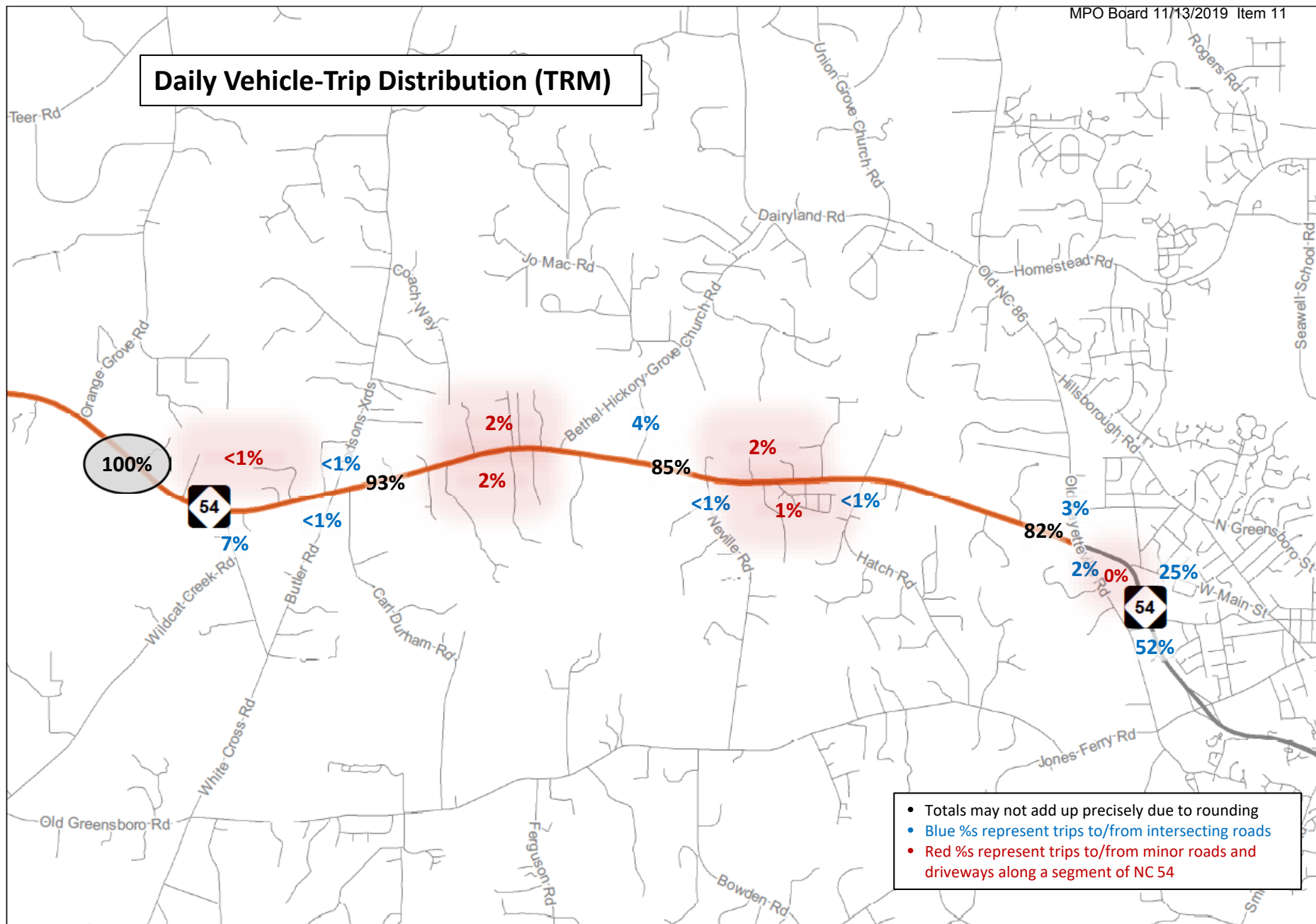


Figure 12: TRM Select Link Analysis – NC 54 East of Orange Grove Road



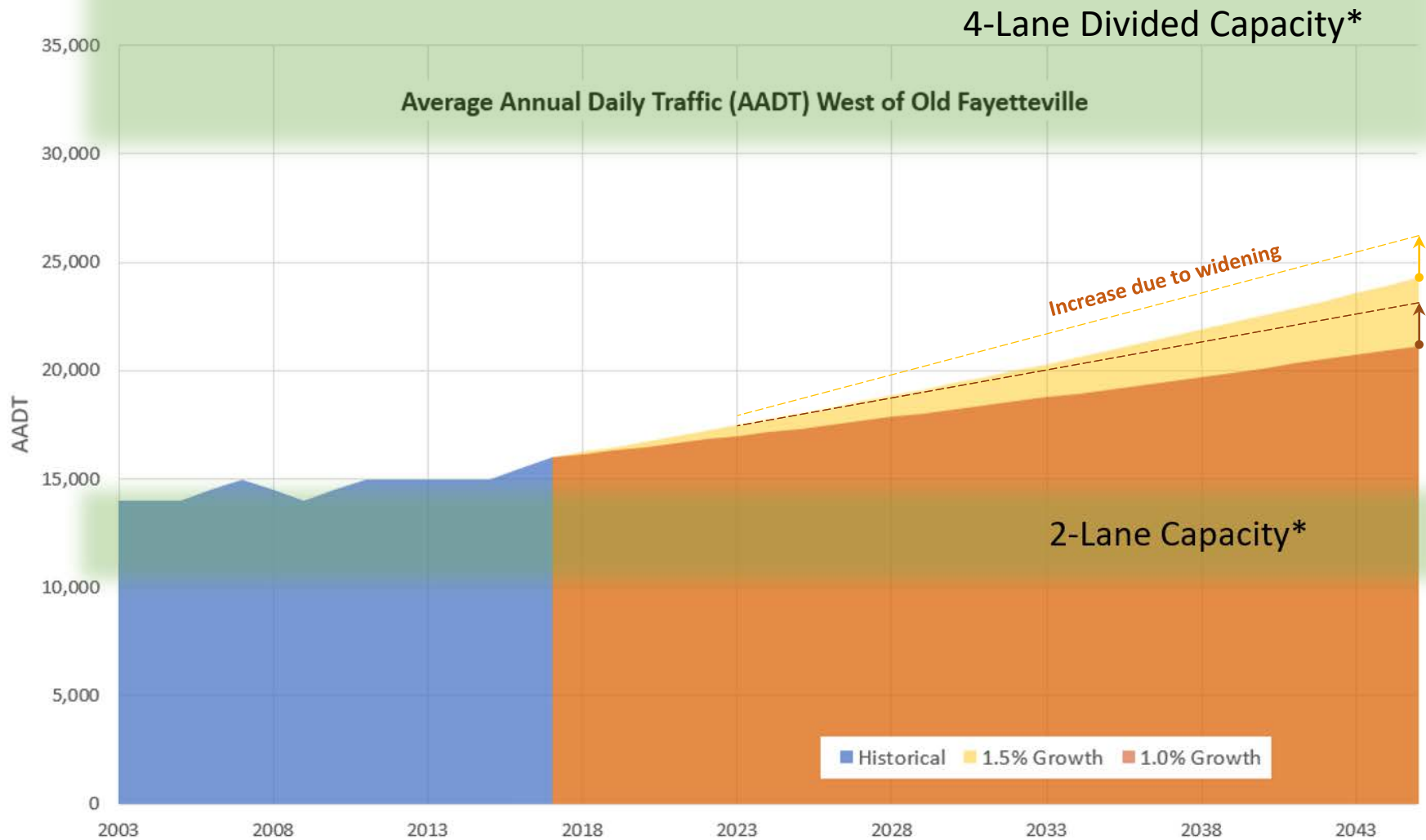
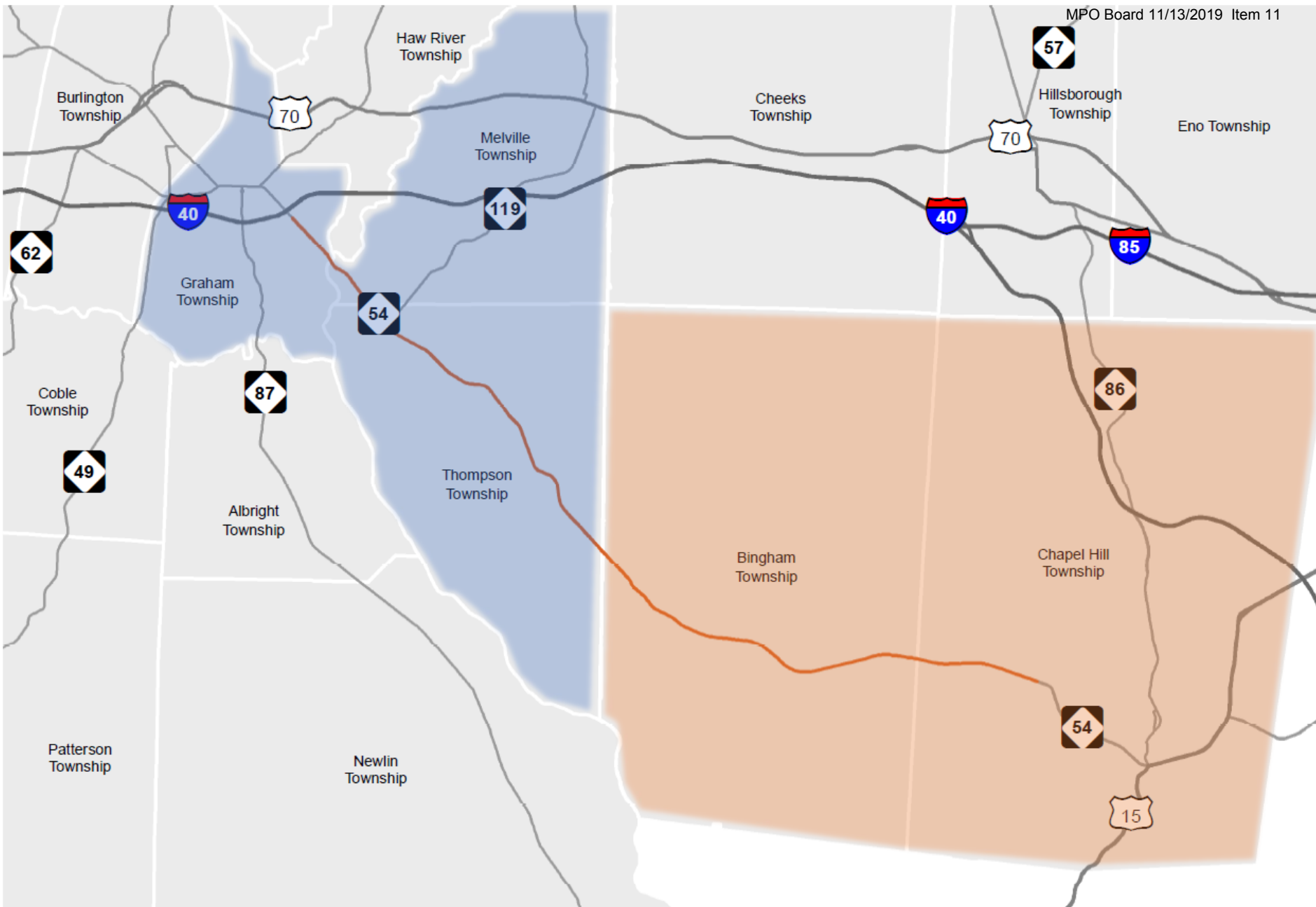


Figure 14: Relative Impacts of Traffic Shifts due to NC 54 Widening



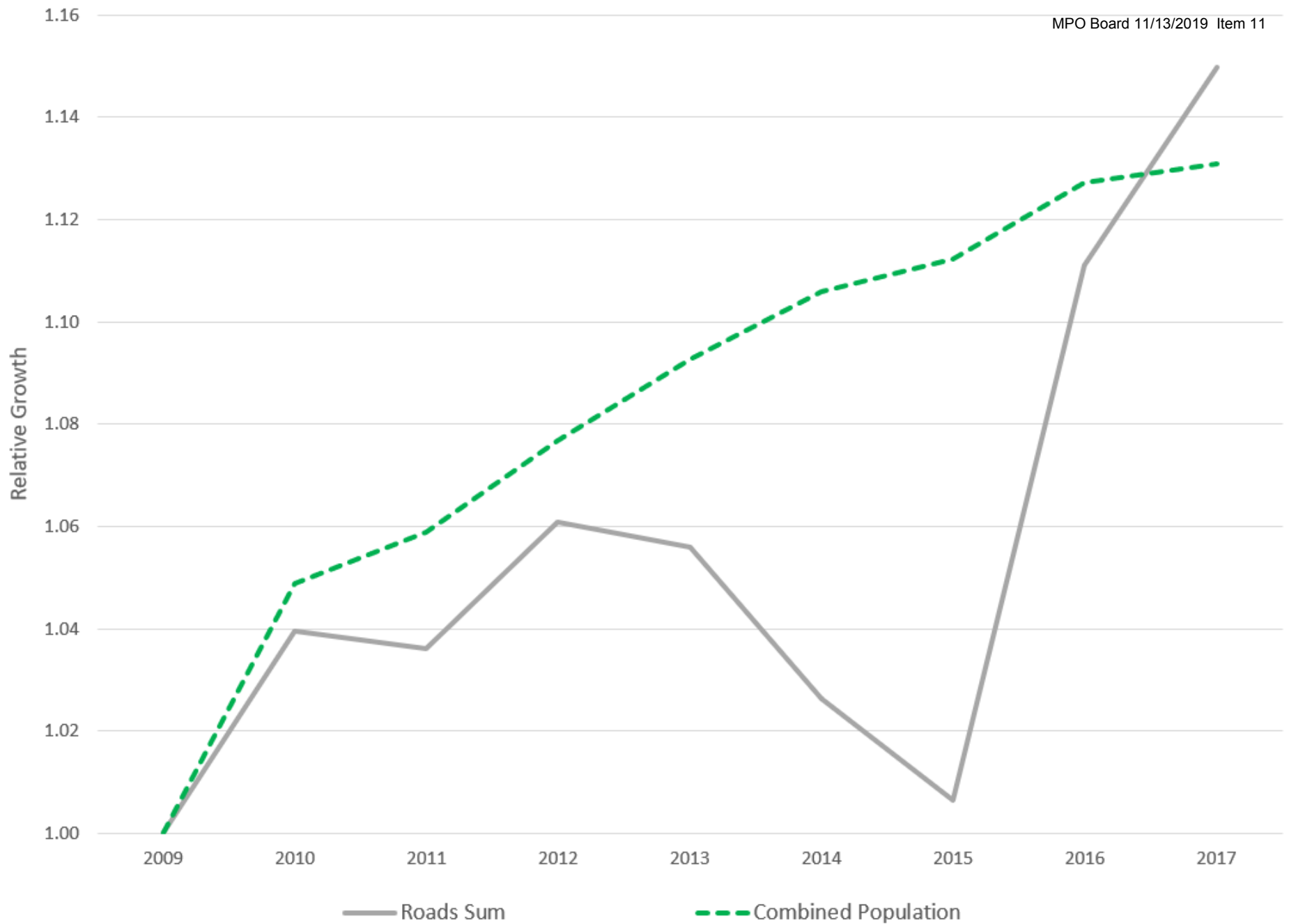


Figure 16: Comparison of Historical Population and AADT Aggregations

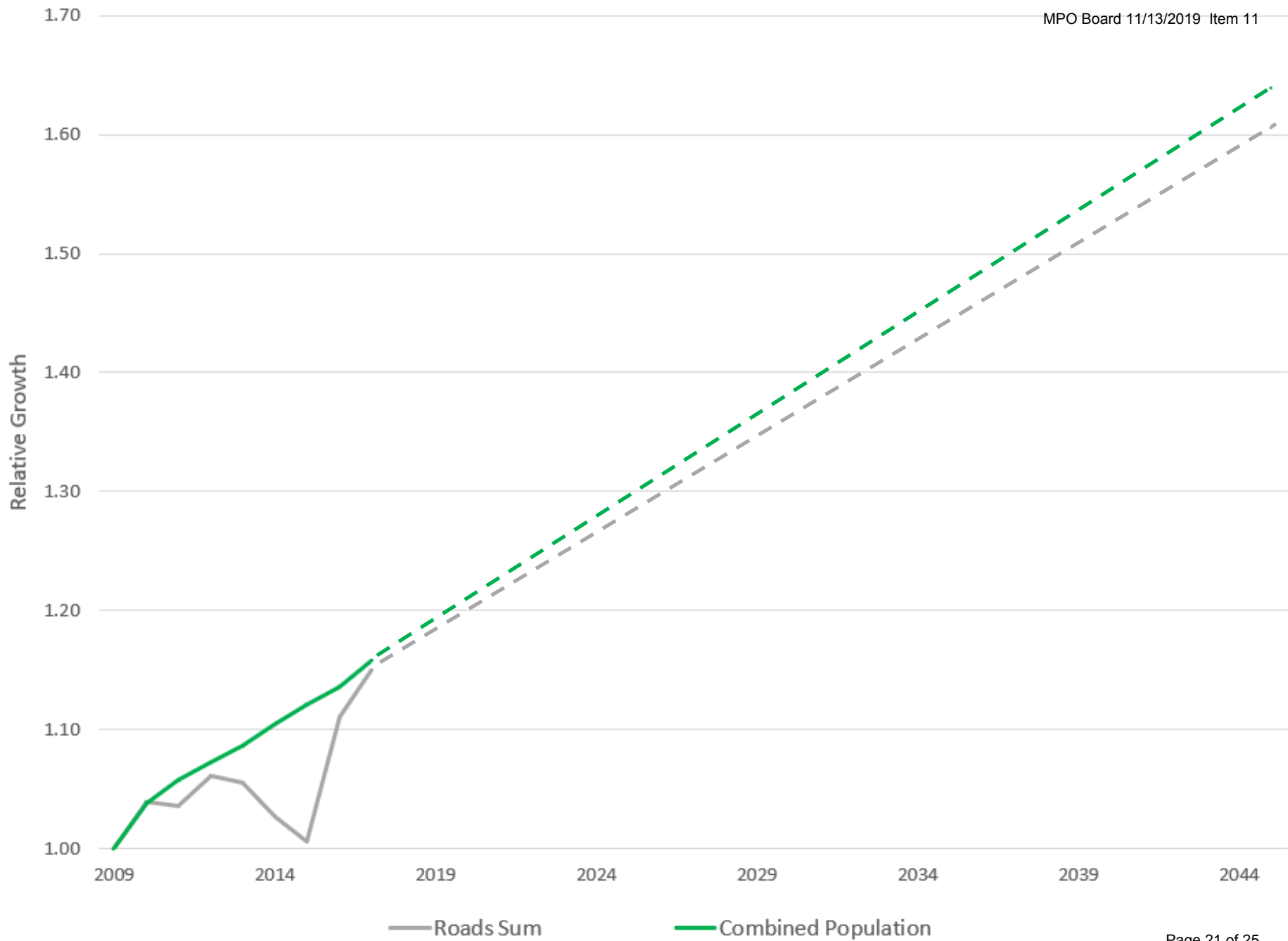


Figure 17: Comparison of Aggregated Population and AADT Forecasts

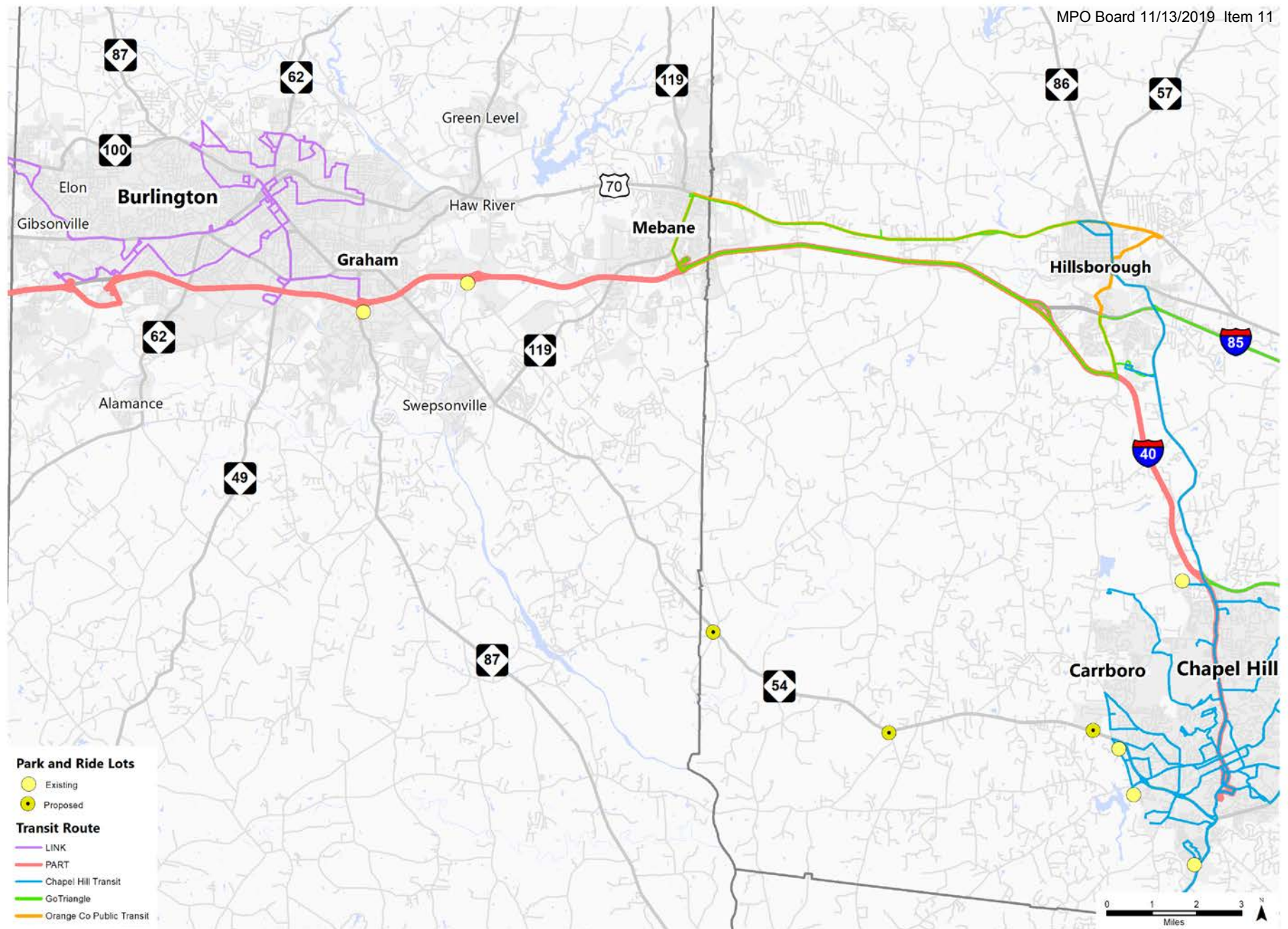
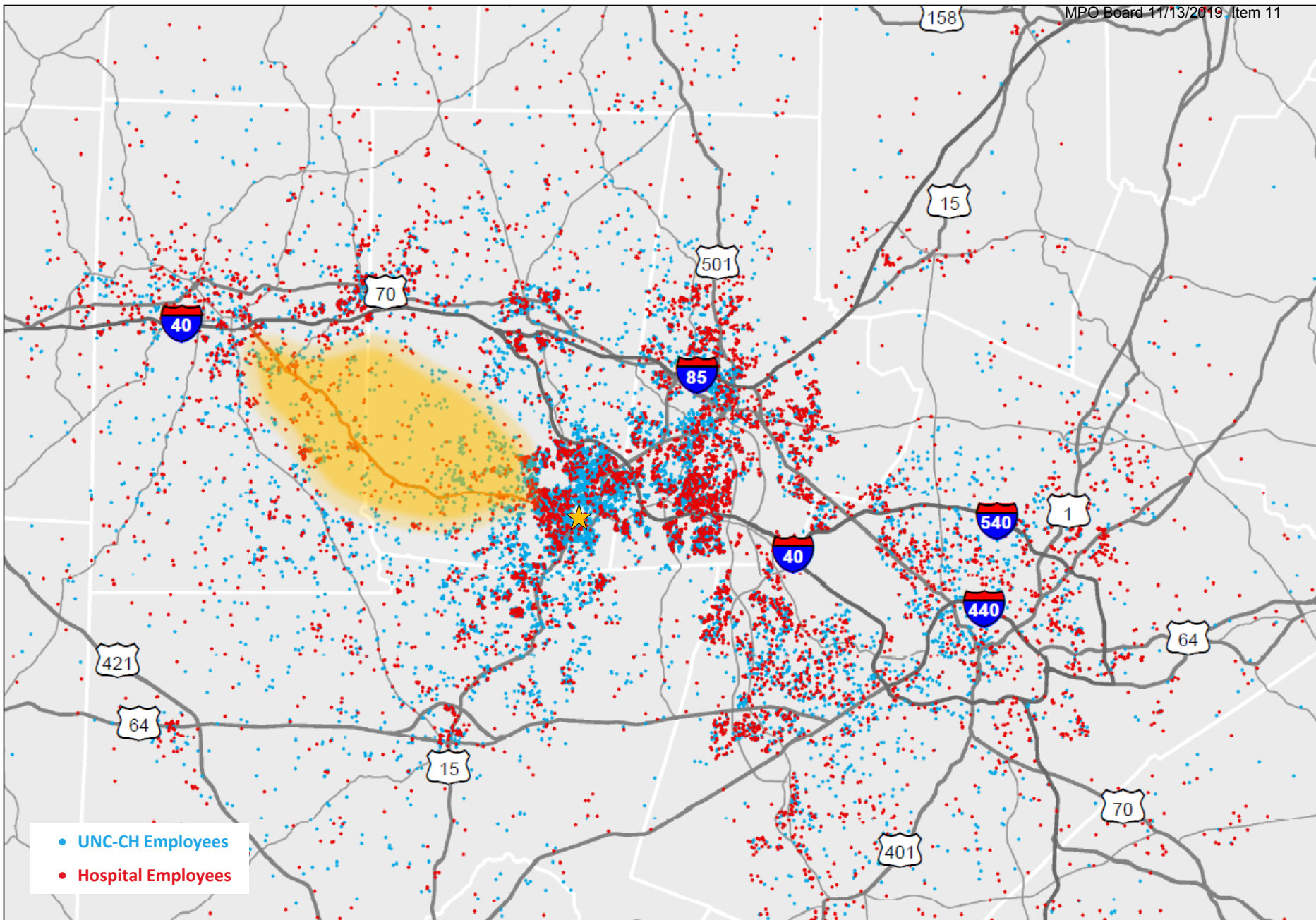
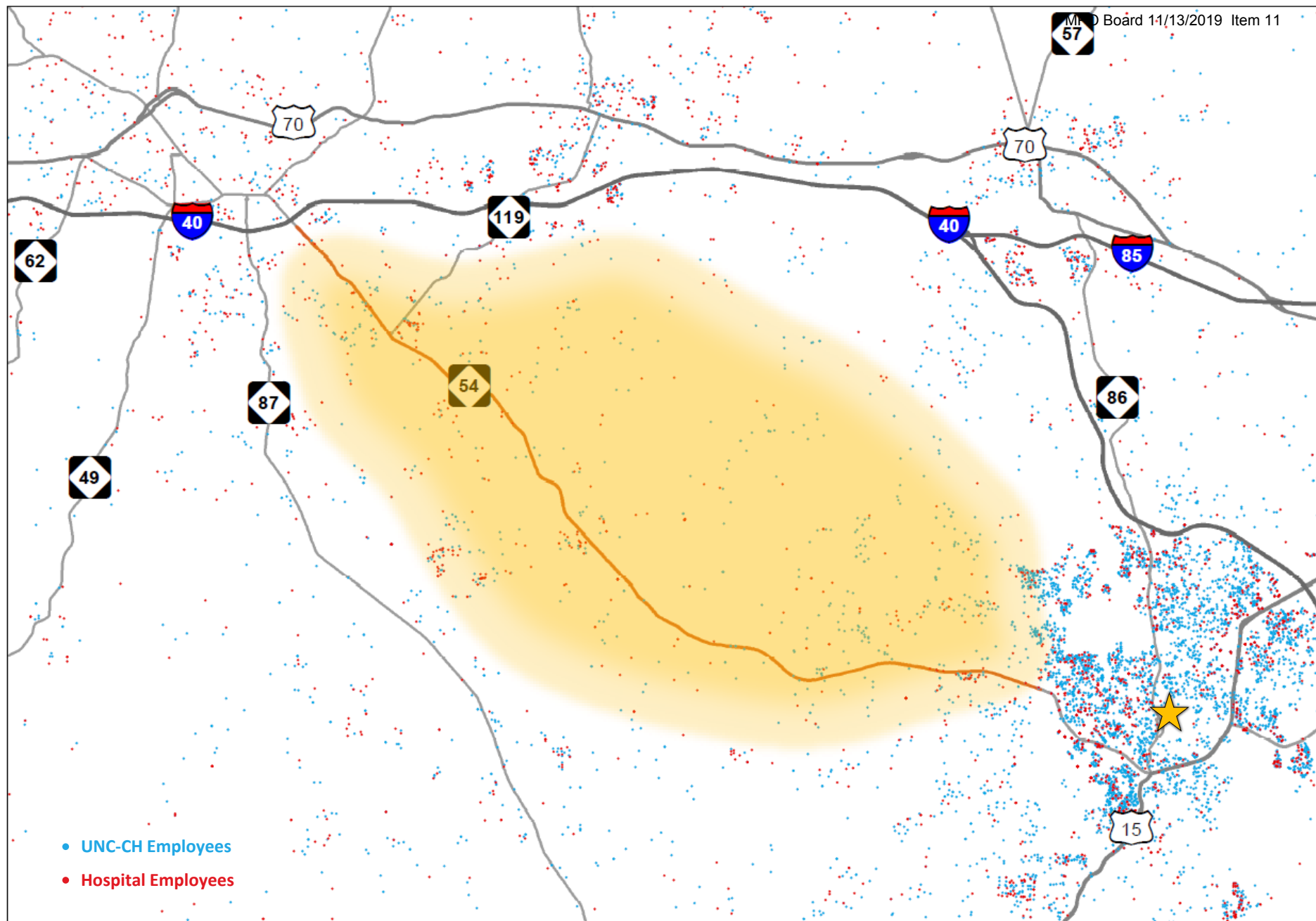


Figure 18: Transit Routes and Park-&-Ride Lots



Source: UNC-CH Development Plan 2017 Update

Figure 19: Regional Distribution of UNC-CH and Hospital Employee Residences (2017)



Source: UNC-CH Development Plan 2017-T14 Update

Figure 20: Study Area Distribution of UNC-CH and Hospital Employee Residences (2017)

