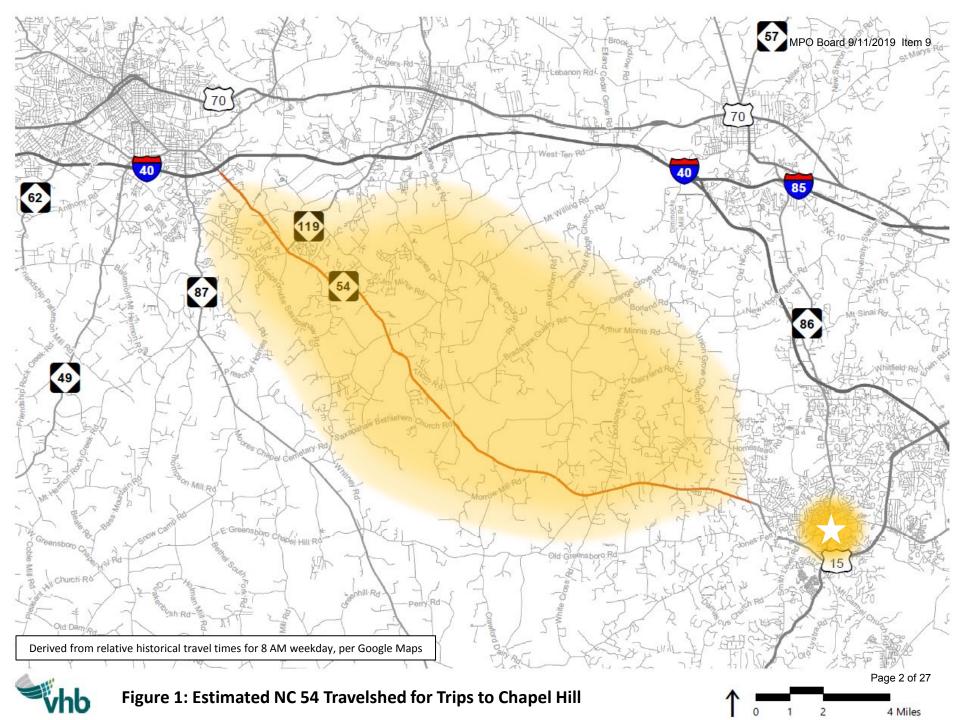


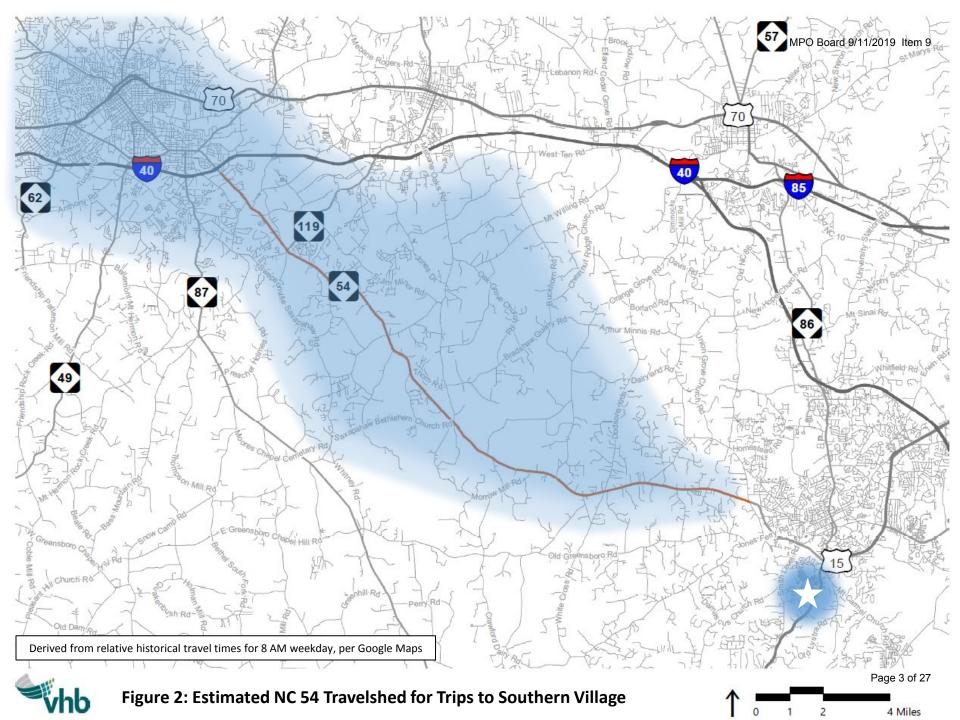
NC 54 West Corridor Study

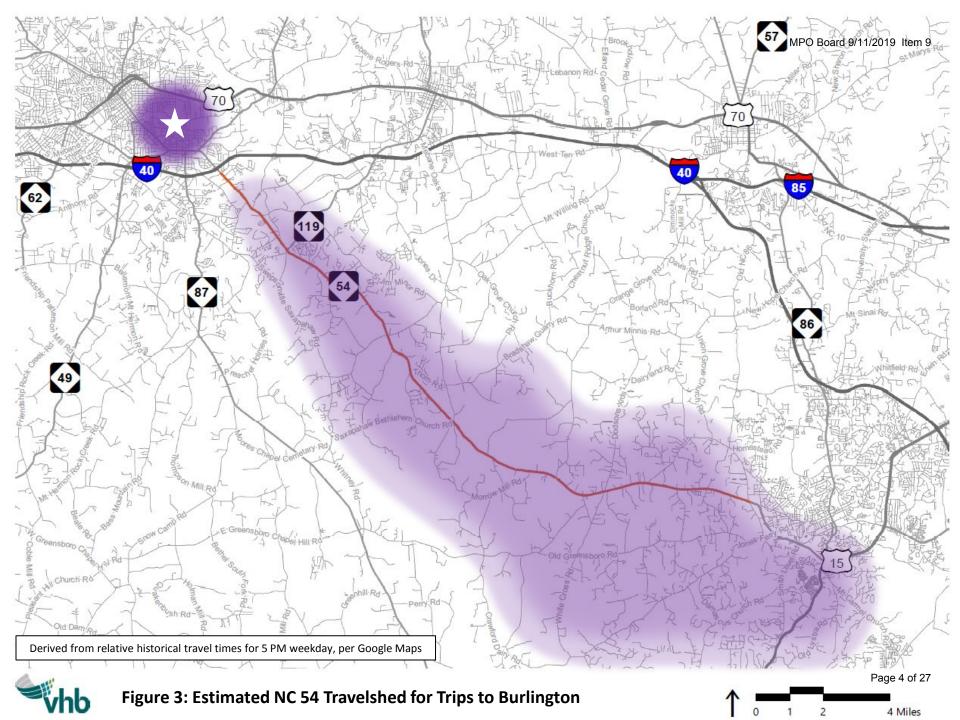
Supplemental Trip Analysis

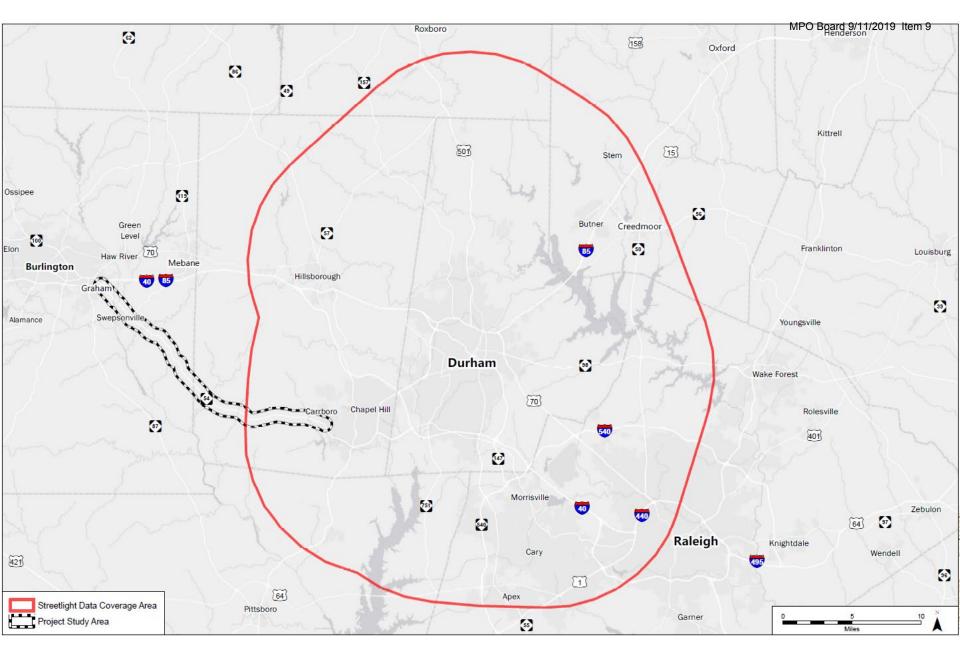
Presented by Joe Seymour, VHB DCHC MPO September 11, 2019

Page 1 of 27

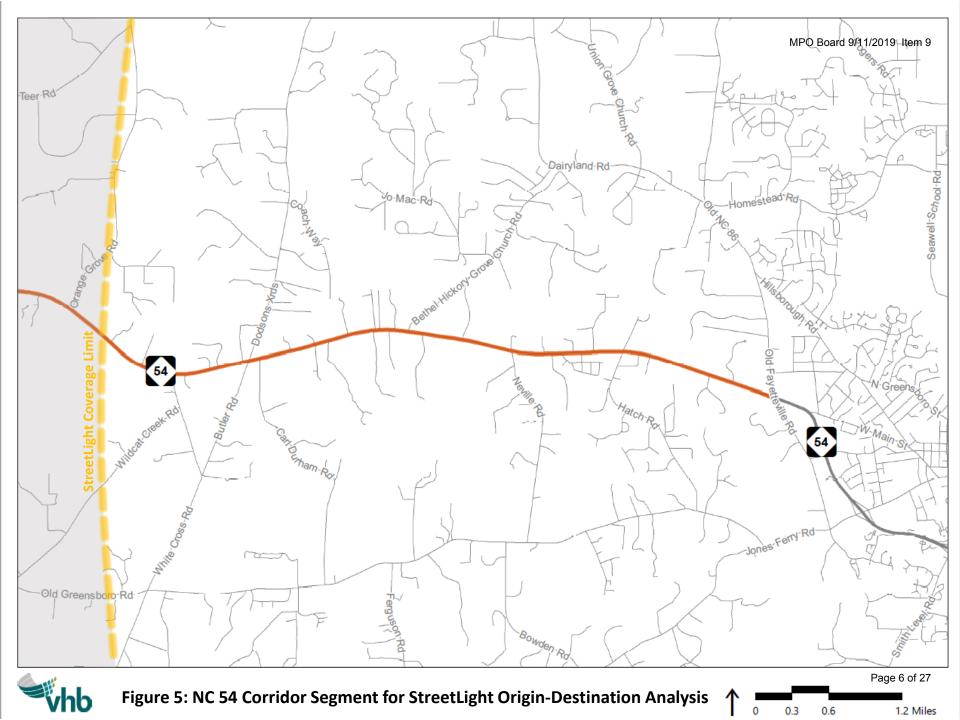












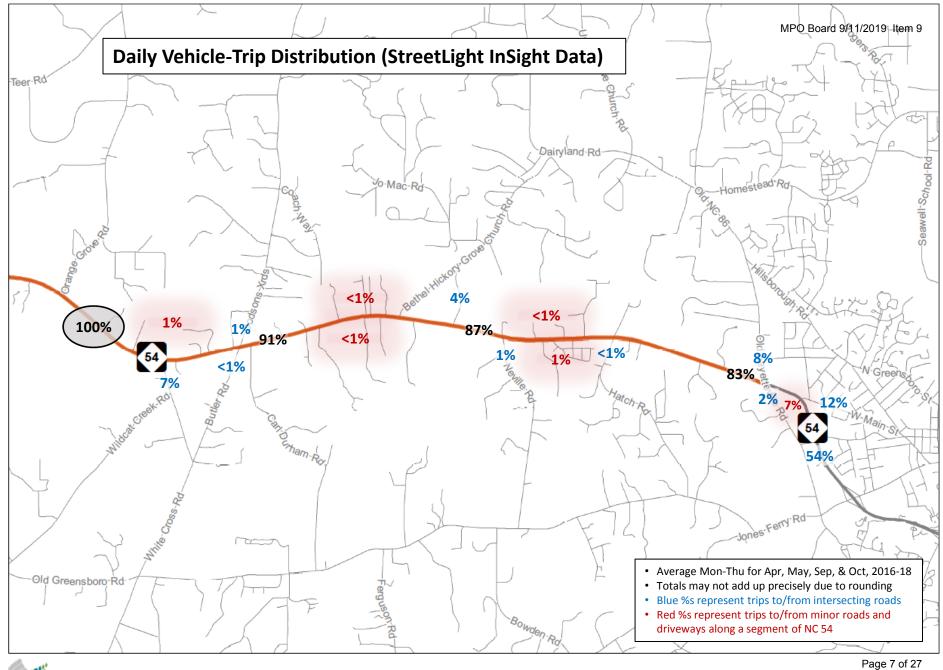


Figure 6: Origin-Destination Analysis – NC 54 East of Orange Grove Road

hb

0.3 0.6 1.2 Miles

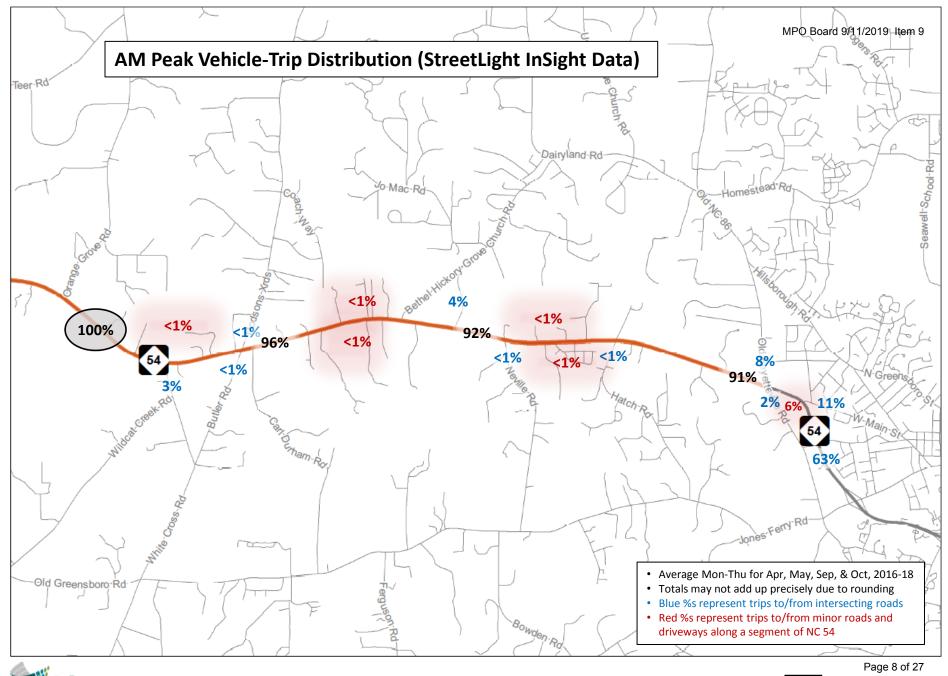


Figure 7: Origin-Destination Analysis – NC 54 East of Orange Grove Road

hb

0.3 0.6 1.2 Miles

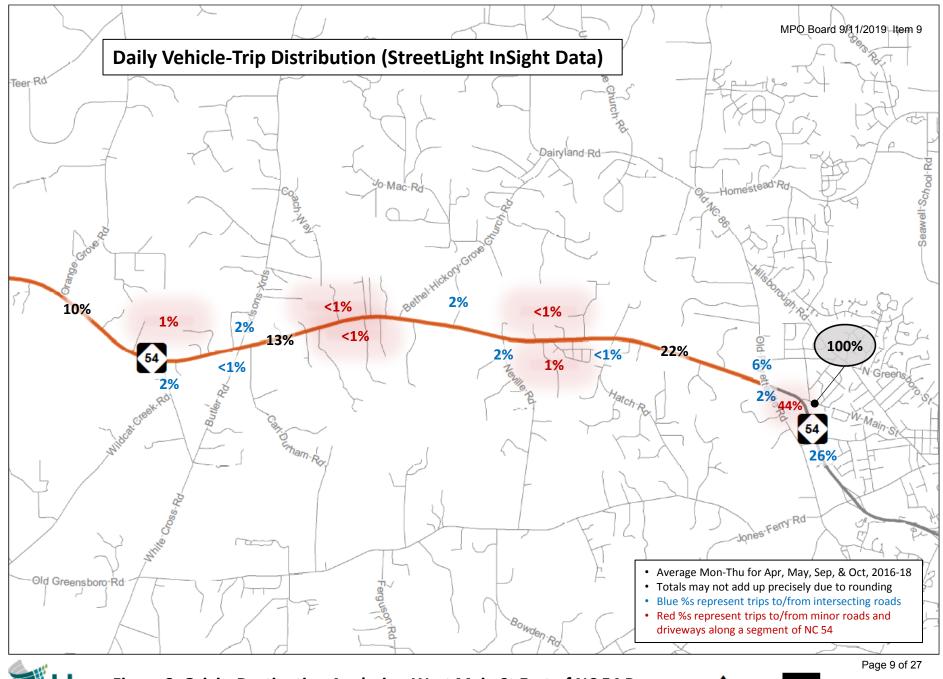


Figure 8: Origin-Destination Analysis – West Main St East of NC 54 Bypass

hb



0.3

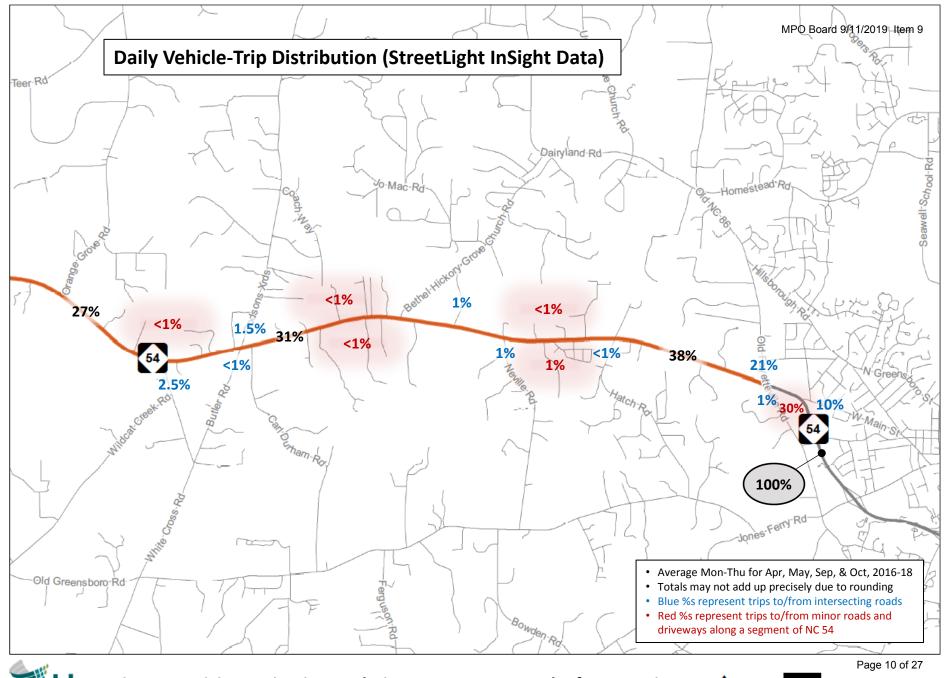


Figure 9: Origin-Destination Analysis –NC 54 Bypass South of West Main St

hb



0.3

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

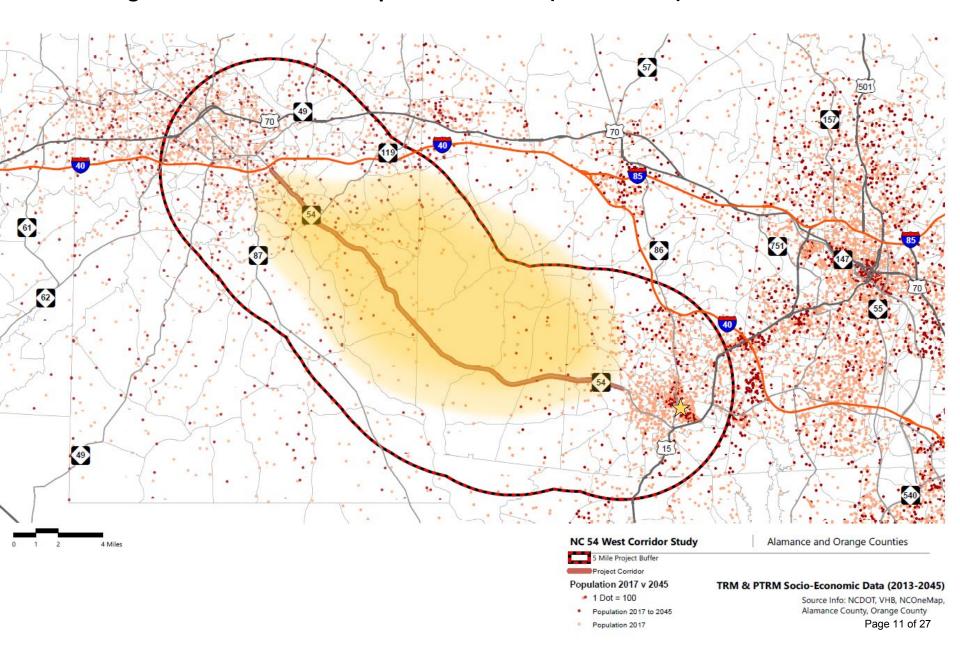


Figure 11: TRM & PTRM Employment Growth (2013 – 2045)

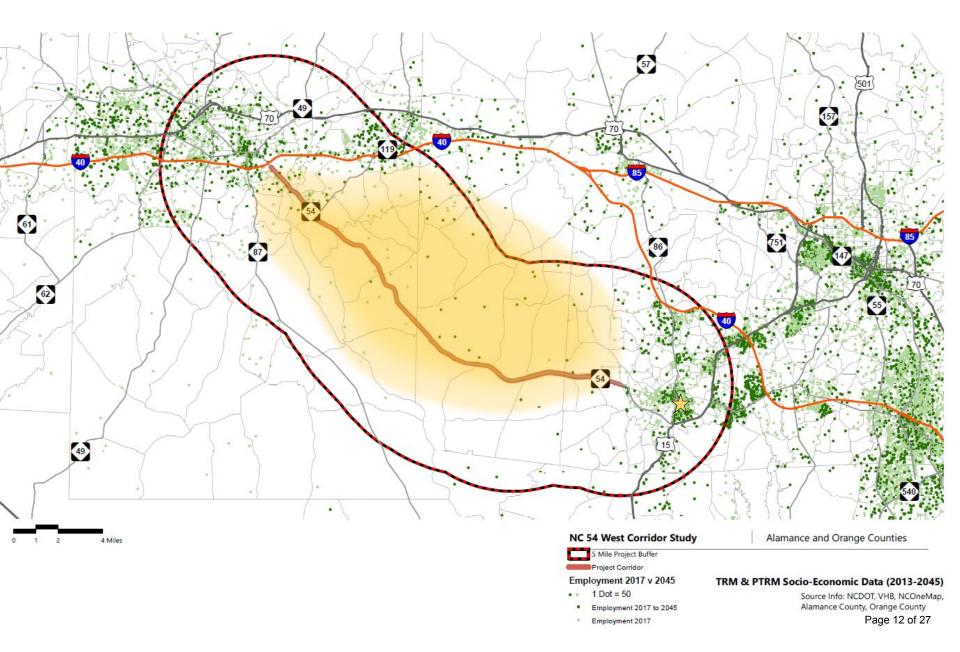


Figure 10a: TRM & PTRM Population Growth (2013 – 2045)

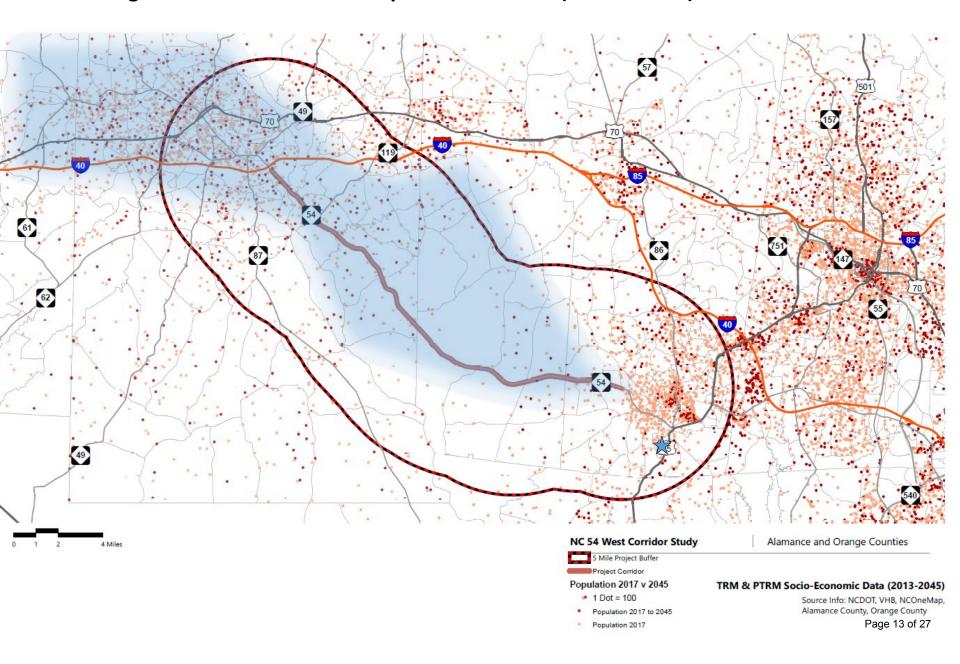


Figure 11a: TRM & PTRM Employment Growth (2013 – 2045)

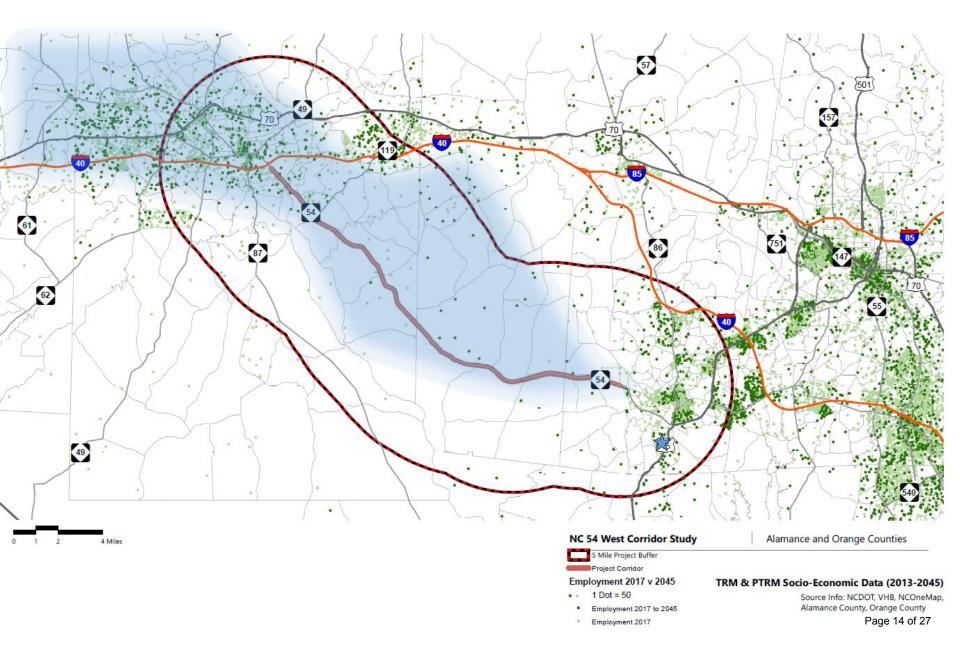


Figure 10b: TRM & PTRM Population Growth (2013 – 2045)

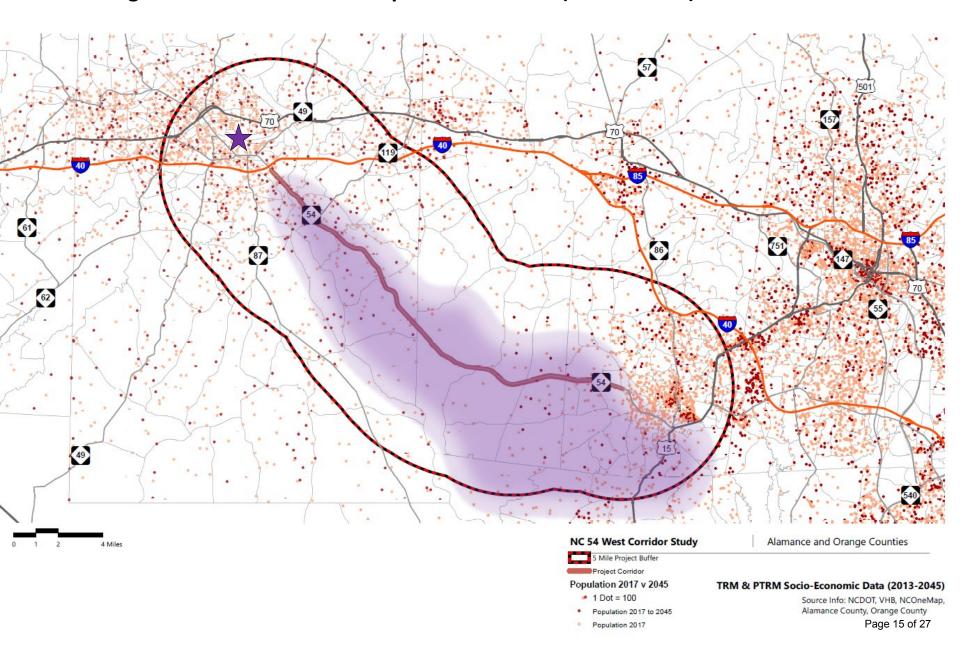
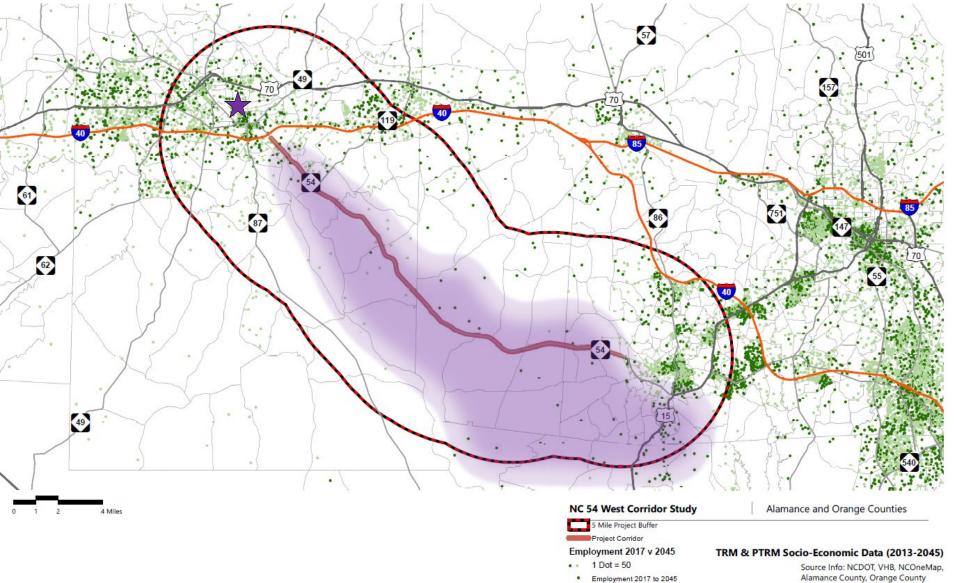


Figure 11b: TRM & PTRM Employment Growth (2013 – 2045)



Employment 2017

Page 16 of 27

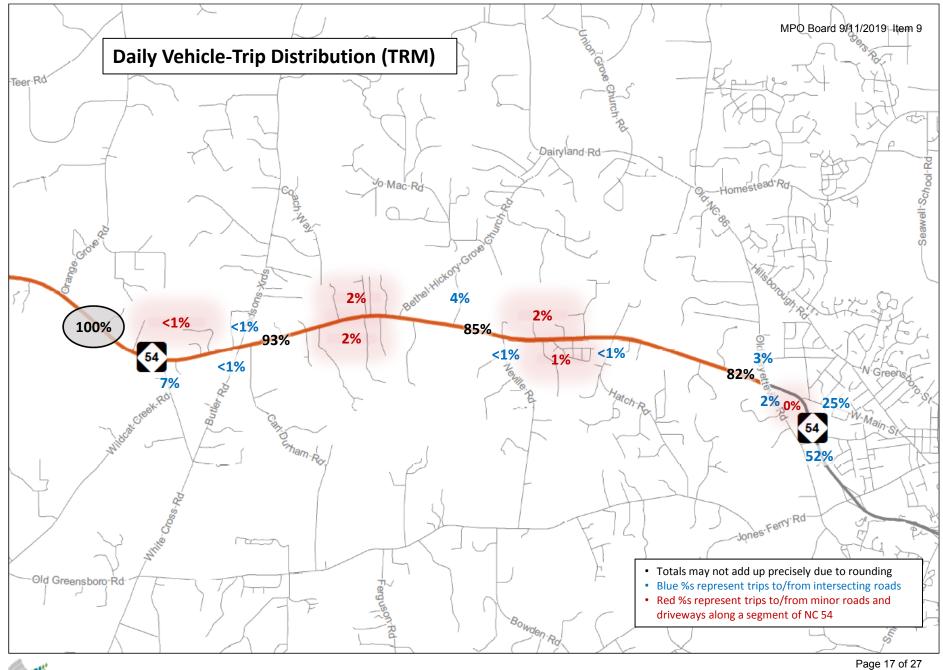


Figure 12: TRM Select Link Analysis – NC 54 East of Orange Grove Road

hb



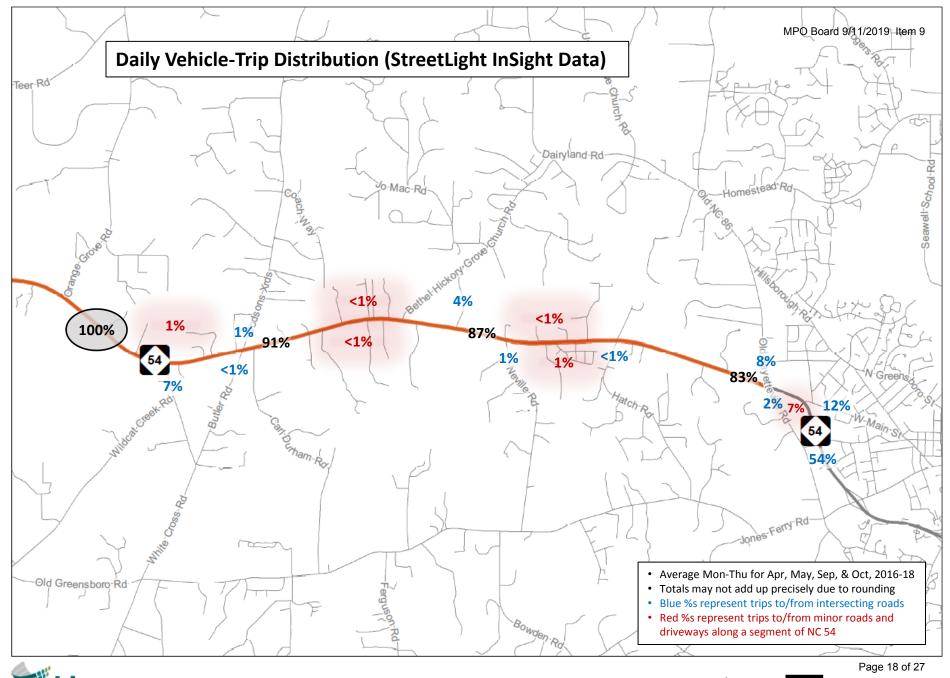


Figure 6: Origin-Destination Analysis – NC 54 East of Orange Grove Road

hb



0.3

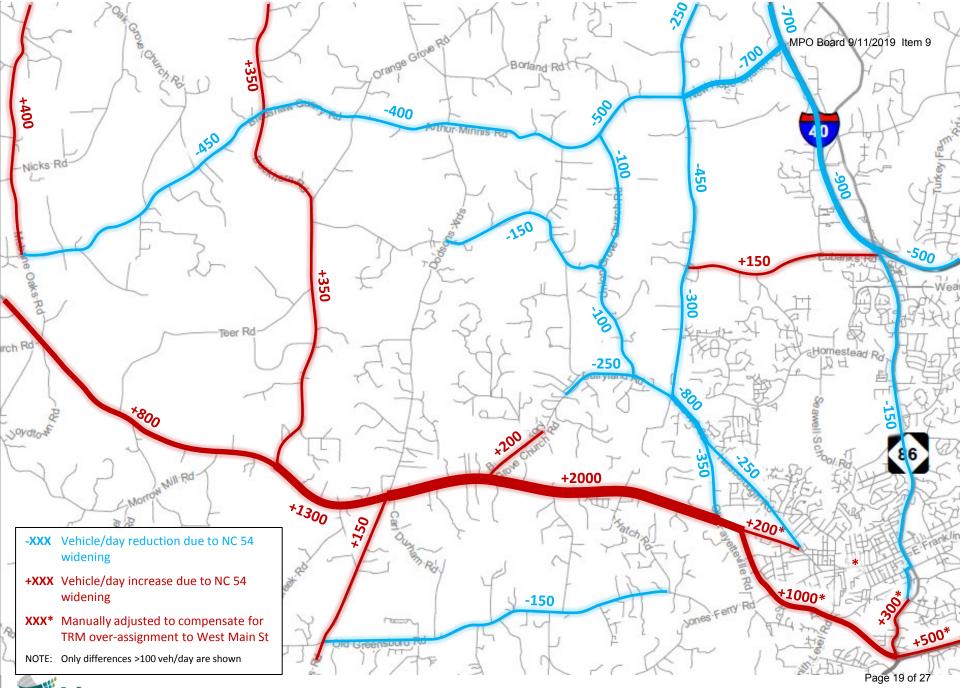
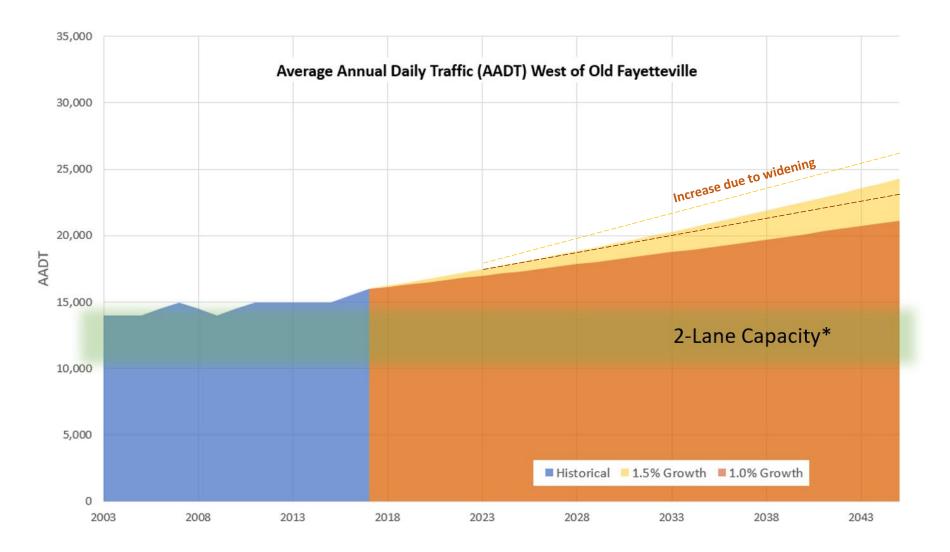


Figure 13: TRM – Daily Traffic Differences between 2045 NC 54 Widened and No-Build Scenarios



Page 20 of 27

Figure 14: Comparison of 2045 Build and No-Build Scenarios Relative to 2-Lane Capacity Roadway

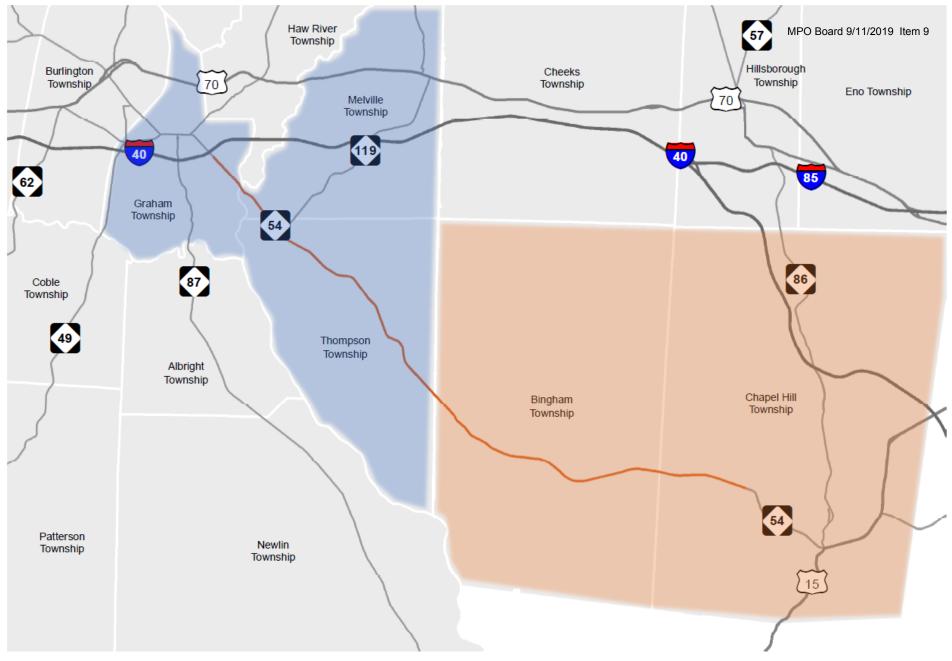


Figure 15: Areas Included in Population-AADT Correlation Analysis

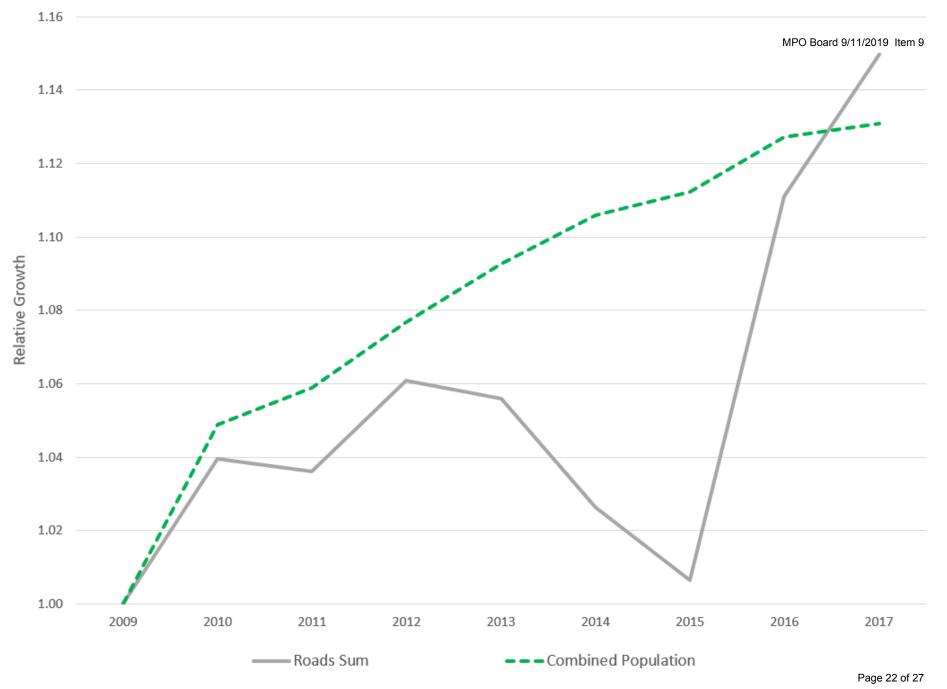


Figure 16: Comparison of Historical Population and AADT Aggregations

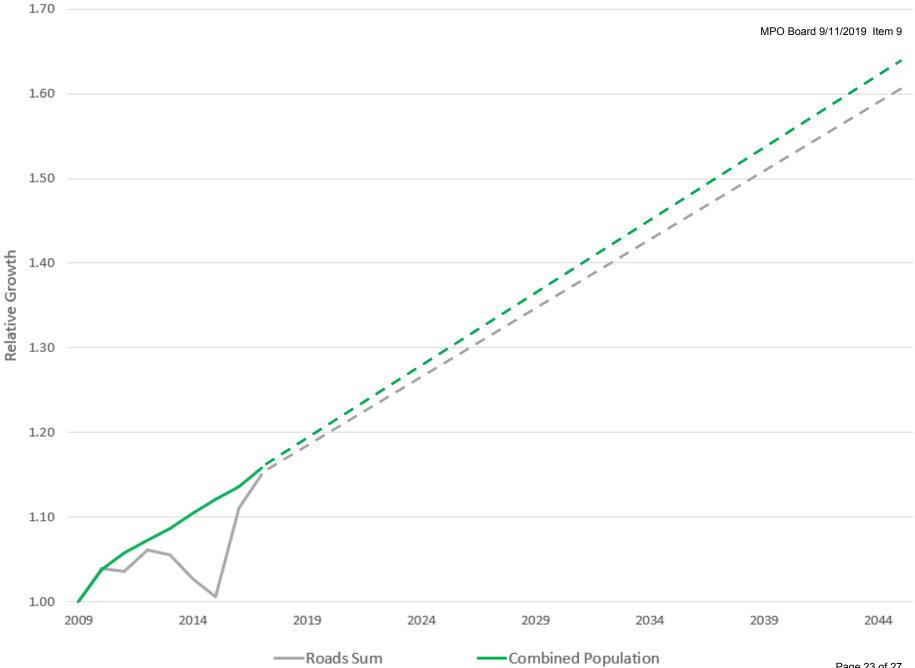


Figure 17: Comparison of Aggregated Population and AADT Forecasts

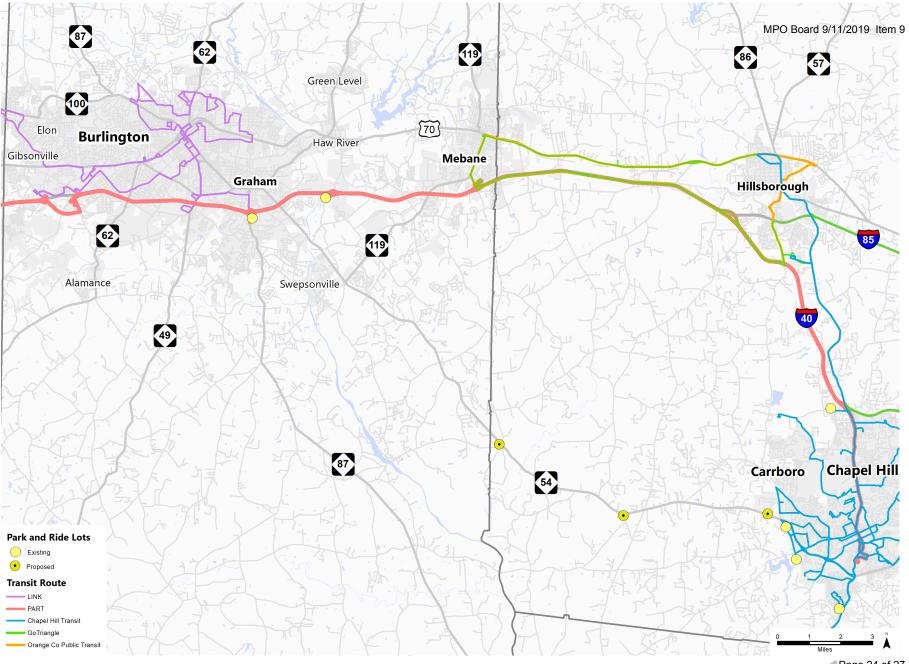


Figure 18: Transit Routes and Park-&-Ride Lots

Page 24 of 27

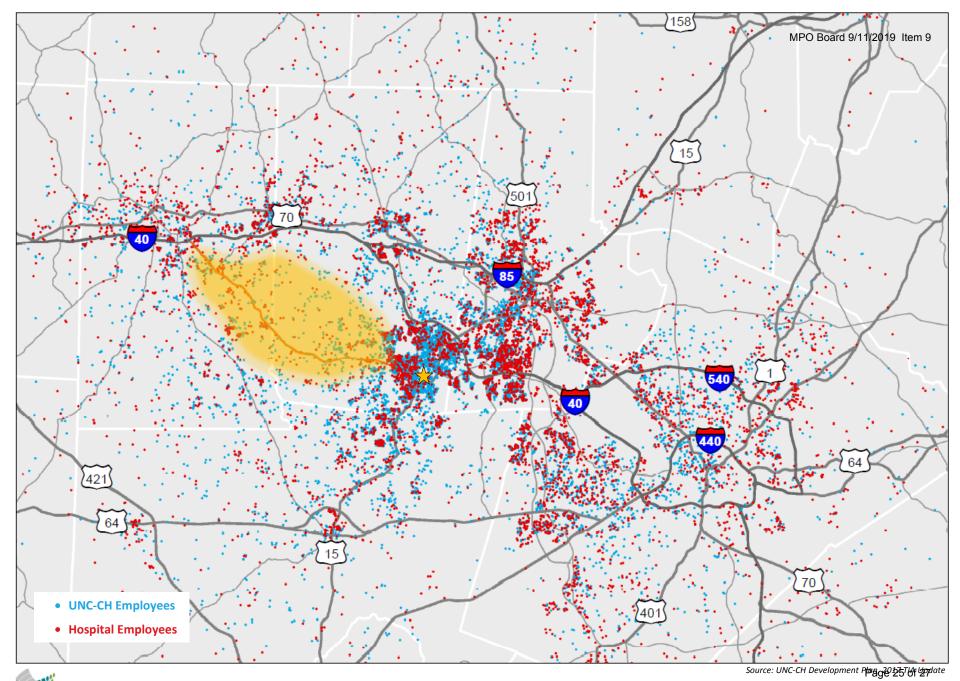
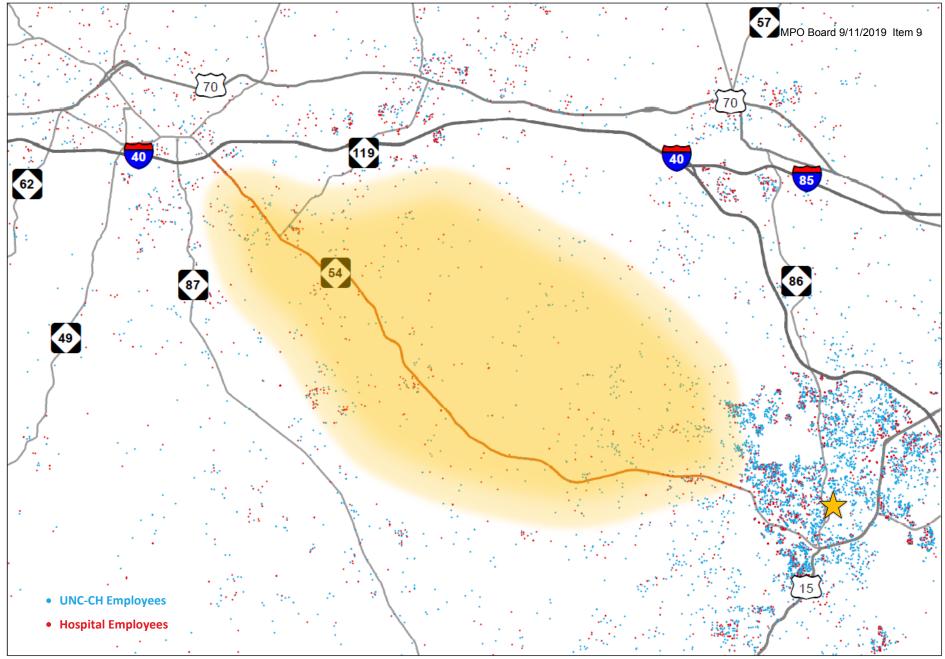


Figure 19: Regional Distribution of UNC-CH and Hospital Employee Residences (2017)

/hb



vhb

Source: UNC-CH Development የ<mark>መ</mark>ያያ ታሪፐርቶ ይም^late

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

