

Traffic Methodology for Forest Hill Road

STP00-3213-00 (001), P.I. No. 350520 (Bibb County)

Forest Hill Road from US 41/SR 19/Vineville Avenue/Forsyth Road to Wimbish Road

STP00-3213-00(003), P.I. No. 351130 (Bibb County)

Forest Hill Road from Wimbish Road to approximately 650 feet south of Northside Drive

Twenty-four hour bi-directional traffic volumes were collected on Forest Hill Road, Wimbish Road, Lokchapee Drive, Forest Lake Drive, Normandy Road and Glenwood Drive. Turning movement counts were collected at eight major intersections of the project.

The 2018 and 2038 projected traffic volumes were obtained by determining the growth rate for each section of roadway based on the MATS latest model runs. Average Daily Traffic from the model runs for the years 2009, 2014 and 2035 were obtained from the Macon Area Transportation Study (MATS) model. The growth rates were calculated and used for roadway sections of the project. See the attached table for the calculated growth rates.

Location	Growth Rate (Multiplier) Model 2009-2014	Growth Rate (Multiplier) Model 2009-2035
Forest Hill Road from US 41/SR 19/ Vineville Avenue to Ridge Avenue	0% (1.00) Used from 2011-2018	2.3% (1.58) Used from 2018 to 2038
Forest Hill Road from Ridge Avenue to Wimbish Road	0% (1.00) Used from 2011-2018	1.9% (1.46) Used from 2018 to 2038
Forest Hill Road from Wimbish Road to Lokchapee Road	0% (1.00) Used from 2011-2018	1.7% (1.40) Used from 2018 to 2038
Forest Hill Road from Lokchapee Road to Glenbrook Road	0% (1.00) Used from 2011-2018	1.4% (1.31) Used from 2018 to 2038
Forest Hill Road from Glenbrook Road to Forest Lake Drive/Newport Road	0% (1.00) Used from 2011-2018	1.3% (1.29) Used from 2018 to 2038
Forest Hill Road from Forest Lake Drive/Newport Road to Northside Drive	0.5% (1.33) Used from 2011-2018	1.2% (1.28) Used from 2018 to 2038

The five-year growth trend as indicated by the MATS model between 2009 and 2014 shows that there is no growth in traffic along Forest Hill Road, with the exception of the roadway section north of the proposed project near Northside Drive. Therefore, it is projected that for most of Forest Hill Road, the existing traffic 2011 would equal that of the opening year 2018. However, over the next twenty years, traffic is anticipated to grow between 1.2 and 2.3 percent per year as determined by the model traffic volumes between 2009 and 2035.

The truck classification for the project was obtained from GDOT STARS Stations 0445, 0447 and 0449 taken along Forest Hill Road. MA classification counts were used to distribute these 24-hour percentages into SU and COMB. Additionally, the average peak hour truck percentage was estimated from MA classification counts.