

Project Purpose

R-5600 NC 107 - Sylva
(From NC 116 to US 23 Business)

Primary Concerns:
<ul style="list-style-type: none"> * Improve safety * Improve traffic operations to acceptable levels of service * Relieve congestion
Need for Project:
<p>Existing traffic volumes:</p> <ul style="list-style-type: none"> * 32,400 vehicles per day (2014) <p>Project traffic volumes to increase:</p> <ul style="list-style-type: none"> * 39,200 vehicles per day (2035) * An increase of + 6,800 more vehicles per day <p>Existing Intersection Operations:</p> <ul style="list-style-type: none"> * Operation "unacceptable levels of service" during peak traffic conditions * Congestion and delays expected to worsen with no improvements to existing roadway <p>Rear-end collisions:</p> <ul style="list-style-type: none"> * Caused by congested conditions - slowing and stopping of traffic <p>NC 107 Crash Study (2011 - July 2016):</p> <ul style="list-style-type: none"> * 254 total crashes on NC 107 from NC 116 to US 23 Business * Concludes 234 crashes per 100 million vehicle miles of travel * Statewide average 2013-2013 = 221 crashes per 100 million vehicle miles of travel
Alternatives Evaluated:
<p>No Build Alternative - evaluated:</p> <ul style="list-style-type: none"> * Did not meet transportation goals of SWRPO and NCDOT * Did not improve existing roadway, nor safety concerns <p>Build Alternatives - evaluated:</p> <ul style="list-style-type: none"> * Superstreet Design - evaluated * Conventional Intersection Design - evaluated * Public Meeting - Southwestern CC: (February 23, 2017): <ul style="list-style-type: none"> * <u>Citizen assisted in choosing current roadway design</u> * 4 roadway design alternatives displayed and discussed with public * Alternative 2A was selected * Selection chosen: 12 FT travel lanes, 17.5 FT grass median, 5 FT bike lanes, 5 FT sidewalks
Minimizing Impact:
<ul style="list-style-type: none"> * Design includes 25 walls to reduce impact * Estimated 186 parcels along roadway * Potentially 5 residential structure relocations * Approx. 39 parcels with an estimated 55 business relocations * 30 Sign relocations * ROW estimate = ~ \$49.7 million (without utility costs)
Construction Time, Impacts, Estimates:
<ul style="list-style-type: none"> * Estimated 3.5 yrs. of construction * Nightwork will be required * \$40 million (without utility costs)
Current Status:
<ul style="list-style-type: none"> * Roadway design plans at 65% * Utility Plans - Expected completion end of October 2019 * Right of Way acquisition will begin January 2020 * Construction LET date December 2022