

**Travis Braswell, PE, PTOE**

Project Manager

**Personal summary**

**Education:**

BS, Civil Engineering, North Carolina State University, 2004

**Registrations:**

Professional Engineer NC, #034993, 2008  
 Professional Traffic Operations Engineer, #3648, 2014

**Professional memberships:**

Institute of Transportation Engineers (ITE)

Mr. Braswell has twelve years of experience in Transportation Engineering. He has experience in freeway and interchange capacity analysis, interchange modification studies, traffic analysis and traffic simulation, access management studies, corridor studies and traffic impact assessments. He is proficient in the use of Synchro/SimTraffic, SIDRA, TransModeler and HCS.

**Employment history**

2012 to present	Mott MacDonald
2004 to 2012	North Carolina Department of Transportation

**Selected projects**

**STIP W-5600 – US 70, NCDOT, Wilson’s Mills, NC:** Project Engineer responsible for traffic analysis using Synchro and HCS to evaluate traffic operations along approximately 4.5 miles of US Highway 70, which is proposed to be upgraded to a freeway. This evaluation consisted of analyzing multiple interchange concepts as well as ramp terminal intersections.

**SPOT Prioritization Evaluations, NCDOT, Statewide, NC:** Responsible for using Transmodeler software to analyze multiple locations throughout North Carolina slated for future STIP projects. This analysis consisted of comparing travel times both before and after the proposed improvement projects.

**U-2907, NC 54 from US 70 to NC 49/NC 100, NCDOT, Alamance County, NC:** Project engineer to evaluate various potential improvements to NC 54 in Alamance County. This included working closely with the Roadway Design Branch, the Transportation Planning Branch, and the Congestion Management Section of NCDOT to develop improvement alternatives. Used Synchro to perform analyses of various improvements and provided traffic technical memorandum summarizing the results.

**On-Call TIA Services, Town of Cary, Cary, NC:** Project manager to perform Traffic Impact Analyses associated with new development and rezoning applications in the Town of Cary.

**On-Call Route Change Management, NCDOT, Various Locations, NC:** Project Manager responsible for completing multiple tasks involved in producing a route change package for approval by NCDOT, AASHTO, and FHWA as applicable. The work for each proposed route change includes field data collection, updating mileposts to affected routes on the state system, updating ordinances to all affected routes, coordination between multiple units within NCDOT, and attending bi-annual committee meetings.

**On-Call Fatality Crash Analysis, NCDOT, Various locations, NC:** Responsible for performing and reviewing crash analyses of intersections and roadway segments associated with fatal crashes.

**Bridge Crash Analysis, NCDOT, Various Locations, NC:** Responsible for reviewing roadway segment crash analyses associated with bridges scheduled for replacement.

**On-Call Spot Safety Evaluations, NCDOT, Various Locations, NC:** Responsible for reviewing Naïve Before and After Studies of intersections or roadway segments for NCDOT’s Traffic Safety Unit. These studies include crash analyses, collision diagrams and statistical analysis of crash data before and after implementation of a countermeasure.

**STIP I-2304AC, Yadkin River Bridge Repair, NCDOT, Salisbury, NC:** Responsible for review and comment on IMR and highway capacity analysis for NCDOT STIP I-2304AC, which included several interchanges related to the repair of the Yadkin River Bridge north of Salisbury, North Carolina.

**STIP I-5111 – I-40, NCDOT, Wake and Johnston Counties, NC:** Responsible for traffic analysis using HCS to evaluate widening alternatives of I-40 from I-40/I-440 in Wake County to NC 42 in Johnston County.

**STIP I-4744 – I-40, NCDOT, Wake County, NC:** Responsible for reviewing and commenting on traffic analysis for I-40 widening from Wade Avenue to I-440/US 64. This analysis also included an addendum analyzing various lane options for the major I-40 and Wade Avenue split.

**STIP U-2800/U-4734, NCDOT, Forsyth County, NC:** Responsible for reviewing and commenting on traffic analysis for the Macy Grove widening and extension project, which included elimination of an existing interchange, construction of a new grade separated

interchange and widening existing Macy Grove Road and providing an extension on new location.

**STIP R-2814B, NCDOT, Rolesville, NC:** Responsible for traffic analysis using Synchro/SimTraffic to evaluate traffic operations on the Rolesville Bypass, which included superstreet intersections. Also conducted presentations to the Town of Rolesville, NC on the traffic operations and benefits of superstreets.

**STIP U-4437, NCDOT, Raleigh, NC:** Responsible for reviewing and commenting on traffic analysis for various grade separation alternatives for the Blue Ridge Road and Hillsborough Street intersection. Also involved in planning for mitigation of traffic effects due to construction detours.

**TIA Review, NCDOT, Various Locations, NC:** While at NCDOT, he was responsible for reviewing and commenting on traffic impact assessments of proposed developments throughout the state of North Carolina. These reviews varied in size and complexity, with some multi-use developments consisting of more than 100,000 trips per day.

**Roundabouts, NCDOT, Various Locations, NC:** Responsible for conducting traffic analysis of various proposed single-lane and multi-lane roundabouts throughout the state of North Carolina, including several located on NCDOT STIP projects and a series of three roundabouts implemented in Randleman, NC.