



# CARLA TILLERY



MANAGING DIRECTOR OF OPERATIONS | SENIOR ASSOCIATE

## OVERVIEW

Carla Tillery is a Principal Planner/Engineer with 18 years of experience in transportation planning and traffic analysis, both in consulting and government service. She leads the Transportation Planning Team at FHI. Ms. Tillery's expertise is focused in the area of transportation planning and modeling, traffic engineering, transit and rail studies, and environmental analysis. Her experience includes a wide variety of projects such as: corridor studies, traffic impact studies, access management studies, traffic signal and coordination analysis, long range transportation plans, short range transit studies, environmental impact studies, and environmental assessments. She has utilized a variety of transportation computer programs and is very familiar with Congestion Management Systems, Incident Management Systems, Intelligent Transportation Systems, Census Transportation Planning, and federal legislations related to transportation.

### TRAFFIC ENGINEERING

Ms. Tillery has extensive experience in traffic impact analysis, traffic simulation, signal optimization, parking studies, signing/markings/MPT, and travel survey/data collection. She has prepared and reviewed traffic impact studies for both private and municipal clients, employed simulation models to evaluate traffic operations, analyzed and optimized signal timing and phasing plans for isolated and coordinated traffic signals, determined parking needs for multi-use facilities, and developed plans for signage, pavement marking, and maintenance and protection of traffic. Ms. Tillery has utilized a variety of transportation computer programs, including Synchro, CORSIM, and the Highway Capacity Software.

### TRANSPORTATION PLANNING

Ms. Tillery has extensive experience in transportation planning projects such as transportation master plan development, corridor studies, regional studies, travel surveys, and long range transportation plans and has a broad background that includes travel demand modeling and GIS analysis. She has participated in the preparation of several environmental impact statements and environmental assessments for a variety of transportation improvement projects. She has an understanding of the National Environmental Policy Act (NEPA) and the Connecticut Environmental Policy Act (CEPA) as they relate to transportation projects. Additionally, Ms. Tillery has expertise in transit and rail planning and analyses. She has participated in many transit and rail development programs, alternatives analyses, fixed guideway studies and intermodal facility planning studies. Ms. Tillery is familiar with the programs, requirements, and regulations of the Federal Transit Administration and the Federal Railroad Administration. She is also familiar with a variety of patronage estimation techniques.

## PROJECT EXPERIENCE

### ANACOSTIA STREETCAR STUDY | DISTRICT OF COLUMBIA | 2010 - ONGOING

Project manager for FHI's tasks to evaluate key issues for the Environmental Assessment that will evaluate

### EDUCATION

- M.S. Civil Engineering, University of Connecticut, 1993
- B.S. Civil Engineering, North Carolina A&T State University, 1991

### PROFESSIONAL AFFILIATIONS

- Women's Transportation Seminar (WTS)
- Institute of Transportation Engineering (ITE)
- University of Hartford Civil Engineering Academic Advisory Board

### YEARS EXPERIENCE

- 16 Years with firm
- 18 Years in industry





alternatives to reestablish streetcar service in the District of Columbia (DC). The planned 37-mile system will provide a high capacity and high quality service, touching every ward in the District. FHI will prepare documentation of existing conditions, analyzing future conditions, identifying impacts, and determining the appropriate mitigation to address traffic and circulation and environmental impacts associated with hazardous sites and materials, and water resource.

#### **HAMPTON ROADS TRANSIT EXTENSION STUDY | VIRGINIA BEACH, VA | 2009 - ONGOING**

Project manager for FHI's tasks to evaluate key issues for the Alternatives Analysis and Draft Environmental Impact Statement that include the documentation of existing conditions, analyzing future conditions, identifying impacts, and determining the appropriate mitigation to address traffic and circulation and environmental impacts associated with social resources such as park lands and historic/cultural properties, physical resources, and also natural resources such as wetlands, farmlands, and threatened and endangered species. The study will evaluate alternatives for the transit extension. The alternatives being evaluated include an Enhanced Bus System, Bus Rapid Transit (BRT) and Light Rail Transit (LRT). Additionally, the study will evaluate two potential extensions to The Tide, Hampton Roads Transit's Light Rail Transit (LRT) system. The first extension under study is a potential fixed guideway connection from the eastern end of The Tide in Norfolk at Newtown Road to the Virginia Beach Oceanfront along the Norfolk Southern Corporation's right-of-way. The second segment of study is a potential fixed guideway extension of The Tide to Naval Station Norfolk.

#### **SHORELINE EAST RAILROAD STATIONS | BRANFORD, GUILFORD, MADISON, CLINTON AND WESTBROOK, CT | 2006- ONGOING**

Principal Planner responsible for conducting a traffic study to assess the traffic impacts associated with the proposed improvements at Shore Line East commuter rail stations (Branford, Guilford, Madison, Clinton and Westbrook) and coordinate efforts for obtaining state approval of the station from the State Traffic Commission. The traffic study quantifies existing traffic and roadway conditions, forecasts anticipated traffic and parking demands associated with the station improvements, and identifies traffic mitigation measures to ensure safe and efficient access and egress to the stations. FHI is also tasked with the coordination efforts for obtaining state approval of the development from the State Traffic Commission.

#### **NORTHEAST TRANSIT CORRIDOR | HARTFORD, CT | 2007-2009**

Deputy Project Manager for FHI's tasks and also led the assessment of existing vehicular and pedestrian circulation in the vicinity of Union Station and identifying traffic issues resulting from anticipated future traffic patterns that will be influenced by a transit center near Union Station and future economic development. Additionally, improvements to the circulation of buses in the Downtown will be determined and traffic impacts resulting from new bus circulation patterns and a new transit center will be assessed. Participated in examining employment, demographic, and travel characteristics of the corridor and in developing a service plan to provide improved transit to the Day Hill Road area.

#### **WEST HAVEN STATION DESIGN | WEST HAVEN, CT | 2004-2009**

Project Manager for FHI's tasks to prepare a traffic study to assess the traffic impacts associated with the new railroad station in West Haven, CT and coordinate efforts for obtaining state approval of the station from the State Traffic Commission. The traffic study quantified existing traffic and roadway conditions, forecasted anticipated traffic and parking demands associated with the development, and identified traffic mitigation measures to ensure safe and efficient access and egress to the station. The new station is needed to provide additional access to the New Haven Line commuter rail service between the two adjacent stations, which are currently over capacity, and to help reduce traffic along the adjacent over-capacity I-95 corridor by increasing the number of patrons using the New Haven Line service.

#### **LINEAR RAILS-TO-TRAILS SAFETY STUDY | SOUTHTON, CT | 2008**

Project Manager for FHI's tasks to conduct an assessment of traffic and safety at the proposed trail crossing for Phase II of the Southington Linear Park Rails-To-Trails project on West Main Street in Southington, Connecticut.





The assessment also included the intersection of West Main Street with Summer Street. The project entailed extending the Southington Linear Park south from Plantsville Center to the Cheshire town line. The trail includes development of a 12-foot wide paved path within the right-of-way of the abandoned Guilford Industries and Boston and Maine Railroad. This will provide the opportunity for bicycling and hiking for transportation and recreational purposes.

#### **REGIONAL BICYCLE AND PEDESTRIAN PLAN | SOUTH CENTRAL REGION, CT | 2006-2007**

Project Manager responsible for the developing the South Central Regional Council of Governments (SCRCOG) Regional Bicycle and Pedestrian Plan. The purpose of the plan was to increase the attractiveness and effectiveness of bicycle and pedestrian transportation on a region wide basis. The development of the Plan involved a large public involvement component, including development of a Project Technical Committee and 4-5 visioning sessions. In particular, one visioning session was an informational workshop on the Safe Routes to School program. The Plan included a recommended regional bicycle and pedestrian network and maps as well as improvement concepts at up to five locations. The improvement concepts, including traffic calming measures, are at locations with high pedestrian and bicycle crashes.

#### **WHITNEY CENTER TRAFFIC STUDY | HAMDEN, CT | 2006-2007**

Project Manager responsible for the preparation of a traffic study to assess the traffic impacts associated with the expansion and renovation for the existing retirement center and coordinate efforts for obtaining state approval of the development from the State Traffic Commission. The traffic study quantified existing traffic and roadway conditions, forecasted anticipated traffic and parking demands associated with the development, and identified traffic mitigation measures to ensure safe and efficient access and egress to the development. The facility currently provides senior living and care services through independent and assisted living. The facility also offers a health care center that provides 24-hour skilled nursing services. The expansion of the facility will include new living units for independent and assisted living, a new Cultural Arts Center, and a new 2-level parking garage. A renovation of the existing building will include a new “Main Street” connecting the existing building to the new residential tower. The new Main Street is a pedestrian mall that will offer the amenities of banking, dining, and shopping for residents within the facility.

#### **GEORGETOWN TRANSIT ORIENTED DEVELOPMENT | REDDING, CT | 2004-2006**

Principal Planner tasked with preparing the traffic study to support the site plan and State Traffic Commission (STC) submittals. The Georgetown Land Development Company, GLDC, is planning to develop a high-density, mixed-use project on the site of the old Gilbert and Bennett Wire Factory in Georgetown, Connecticut. The development features a mix of residential, commercial and retail uses as well as a YMCA, performing arts theatre, and a train station. This type of development is often referred to as “Transit Oriented Development (TOD)” or “Smart Growth” primarily because it centers around the availability of significant public transportation infrastructure. In this case, the Danbury Branch commuter rail line provides connections to major Connecticut cities (Norwalk and Stamford) in Fairfield County as well as New York City.

#### **POLICE STATION TRAFFIC STUDY | DANBURY, CT | 2006**

Project Manager responsible for the preparation of a traffic study to assess the traffic impacts associated with the new police station and coordinate efforts for obtaining state approval of the development from the State Traffic Commission. The traffic study quantified existing traffic and roadway conditions, forecasted anticipated traffic and parking demands associated with the development, and identified traffic mitigation measures to ensure safe and efficient access and egress to the development. The station features approximately 75,000 square feet of building space to be used for administrative and operations offices, a community center, and a two-level parking garage.

#### **INTERMODAL TRANSPORTATION CENTER | BRIDGEPORT, CT | 2004-2005**

Project Manager for FHI's tasks as part of a project team to plan and design a major intermodal transportation center and transit garage in Bridgeport, Connecticut, and prepare a joint Environmental Assessment/Environmental Impact Evaluation (EA/EIE) under the auspices of the National Environmental Policy Act





(NEPA) and the Connecticut Environmental Policy Act (CEPA). Conducted the demand analysis, transportation planning, traffic analysis, and parking analysis, and oversaw the environmental impact analysis.

## ADDITIONAL PROJECT EXPERIENCE

- New London Intermodal Transportation Center, New London CT
- Briarwood Walk Development, Mystic CT
- Bridgeport Intermodal Signal Study, Bridgeport CT
- 95/7 Ventures, Norwalk CT
- Route 305 (CT) Corridor Study
- Route 110/113 Rotary Interchange Study, Methuen MA
- Route 22 (CT) Corridor Study
- Route 35 (CT) Traffic Improvement Plan
- Route 34 (CT) Corridor Study
- Gateway Community College Relocation Environmental Impact Assessment
- Department of Public Health Laboratory Environmental Assessment
- Department of Veteran's Affairs Adult Facility Environmental Assessment

