



www.fhiplan.com

Fitzgerald & Halliday, Inc.

## Who is FHI?

FHI is a multidisciplinary consulting firm focused on providing quality services and products to our clients. Our staff of planners, engineers and scientists have a depth of experience on projects of many sizes for both public and private clients. Our core services include environmental planning, transportation planning, cultural resource investigations, GIS mapping and analyses, community and site planning, and public involvement. Supporting both our environmental and transportation planning capabilities, we provide a broad range of bicycle and pedestrian planning services.

## FHI's Bicycle and Pedestrian Services

- Statewide Planning
- Access to Transit
- Bicycle and Pedestrian Design
- Ordinance Review/Development
- Safety Reviews
- Safe Routes to School
- Pedestrian Scale Lighting
- Traffic Calming
- Traffic and Pedestrian Flow Analysis
- Corridor Planning
- Pedestrian Surveys
- GIS Technology

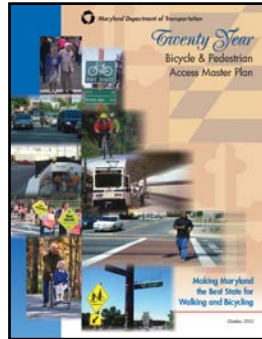
## Pedestrian and Bicycle Project Experience

- Municipal Plans
- Urban Design
- Master Planning Projects
- Corridor Studies
- Site Development
- Safe Routes to School
- Transit Studies
- Station Area Planning
- Model Ordinances
- Environmental Documentation

## Core Services

- Transportation Planning
- Environmental Planning
- Historical/Cultural Documentation
- Public Involvement
- Community/Site Planning
- GIS Analysis

## Statewide Planning



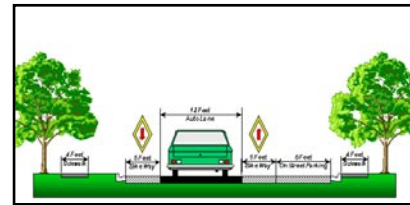
State leadership for bicycle and pedestrian planning is critical for the creation of accessible networks along state-owned right of ways. FHI has provided statewide bicycle planning services in three states for specific bike/ped policy plans and in three others where bicycle and pedestrian travel is an important component of the overall statewide transportation plan. Our staff members bring a wealth of experience in evaluating and assessing the important policies that help incorporate bicycle and pedestrian travel into the state transportation system. We also possess the ability to apply the technology available to assess statewide needs, providing state agencies with the tools they need to identify and prioritize improvements.

## Ordinance Review/Development

Land use regulation is one of the primary tools local governments have for promoting bicycle and pedestrian access in private developments within their jurisdictions, which help to create desirable communities. FHI has extensive experience applying our strong understanding of land use and zoning issues to planning for bicycle and pedestrian facilities. The range of expertise we offer includes analysis of existing regulations, development of model regulations, expert testimony, and assessment of the impacts of current zoning and other ordinances on future development patterns. Our skills in GIS enhance these analyses by providing spatial analysis and mapping functions that can be key for illustration, increasing the understanding of both decision makers and the public.

## Bicycle and Pedestrian Design

FHI staff is conversant in published design guidelines and their application in various real-world situations. Our staff has provided design services for trails, roadway intersections, pedestrian improvements (bulb-outs, refuge islands), signing and striping, lighting and Americans with Disabilities Act (ADA) improvements. Past work has included preparing overviews of nationwide bicycle and pedestrian design guidelines for use by state transportation professionals. Our expertise enables us to provide design alternatives that meet published design criteria and are implementable under federal and state guidelines.



Contra-flow bikeway, College of William and Mary

## Safety Reviews

A comprehensive understanding of local conditions helps in the formulation of a plan for improving the safety of all travel modes. Our staff has conducted a number of bicycle and pedestrian safety reviews for roadways of various classification, from neighborhood to principal arterial. Safety reviews have included assessment of crash data, signal timings, roadway geometry, and traffic operations. FHI has conducted various data collection activities to obtain necessary information, including videotaping, site observations, and field measurements. We have the ability to interpret data, confer with roadway design engineers, and interact with agencies and the public to help formulate safety improvement plans for all travel modes.

## GIS and Other Technologies

GIS is an important technology for bicycle and pedestrian planning on several levels. Our GIS experience has included spatial and mapping analyses to determine expected travel demand, potential greenway corridors, bicycle level of service or capacity indexes, and to illustrate existing and planned network improvements. FHI also uses GIS technology to conduct visual impact assessments of infrastructure improvements on communities, including historic downtowns. Whether making maps or evaluating data, our products are oriented as decision making tools. FHI has gained increasing recognition for our expertise in websites and web-based technologies as an outlet for public interface and information exchange on bicycle and pedestrian projects, providing a better opportunity for interested parties to provide input to the planning process.

(Continued)

## Access to Transit



*Analysis of transit access, No. Virginia*

The key to successful transit is to provide seamless integration with the surrounding community. FHI brings together multidisciplinary expertise to help transportation agencies connect with communities. Our attention to the human experience and livability issues combined with our application of technical methodologies and public involvement brings excellence to project teams. Our traffic engineers are well versed in traffic calming and pedestrian accommodation, our transit operations specialists address parking needs, and our land use specialists craft zoning recommendations for improving circulation in the community. This multidisciplinary approach enhances a true multimodal view of facilitating access to transit.

## Pedestrian Scale Lighting

Our engineering staff has the capability to assess existing or proposed lighting that can significantly improve safety for bicyclists and pedestrians. Our expertise includes both corridor level and site-specific lighting improvements. FHI maintains an up to date library of commercially available lighting equipment from numerous manufacturers and staff is familiar with standard practices relative to Illuminating Engineer Society and AASHTO guidelines. We are able to use industry standard photometric analysis software to effectively model alternative lighting configurations and illustrate those configurations specifically accommodating the needs of bicyclists and pedestrians.

## Traffic Calming

Communities and neighborhoods around the country are struggling with high volumes or high speeds of automobile traffic that have created places unsafe for bicycling and walking. FHI has worked with neighborhoods, municipalities, and state transportation agencies to identify means by which to improve safety for all modes through application of traffic calming practices. We are familiar with state of the practice traffic calming measures and standards. We have led public outreach efforts, recommended specific improvements, and crafted local ordinances to optimize the design of more livable corridors and communities.

## Traffic and Pedestrian Flow Analysis

Our traffic engineering staff provides traffic analysis services for projects of varying scope. We have extensive experience analyzing high-volume pedestrian traffic in environments such as transit stations, resorts, college campuses, and highly urbanized central business districts or commercial corridors. Our expertise includes special consideration to the placement of crossings, ADA ramps, sidewalk offsets, channelization of pedestrians via physical features, and pedestrian signal timings. FHI's expertise with access management, traffic calming, and design of signing and pavement marking further enhances our capabilities in identifying and analyzing pedestrian safety issues.



*Intersection analysis, Dewey Beach, Delaware*

## Corridor Planning

Corridor improvement projects often have a strong element involving the improvement or provision of bicycle and pedestrian infrastructure in areas where they were previously lacking or deficient. Our staff has worked on many planning projects for roadway and transit corridors that have included a focus on improving conditions for walking and bicycling. FHI has developed corridor management plans, access management plans, and bicycle and pedestrian access plans for corridor projects. FHI has also planned multiuse paths to be used as an alternative transportation mode in major automobile or transit corridors.

## Representative Bicycle and Pedestrian Planning Projects

- Leesburg Pike Pedestrian Bridge Feasibility Study, VA
- Route 7 Pedestrian and Bicycle Trail, CT
- Statewide Bicycle Route Inventory, VA
- Landrum Drive Bikeway Study, VA
- Stamford Multimodal Transportation Center, CT
- MDOT Statewide Bicycle and Pedestrian Plan, MD
- Delaware Statewide Bicycle Facilities Plan, DE
- Economic Impact of Bicycling in Virginia, VA
- Little Creek Road Traffic Signal Optimization, VA
- Delaware Statewide Pedestrian Plan, DE
- Route 202 Corridor Management Plan, CT
- State Bicycle Plan, VA
- Southington Rails to Trails, CT
- Downtown Hartford Circulation Project, CT
- Richmond Bicycle/Pedestrian Study, VA
- Maryland Statewide Bicycle and Pedestrian Master Plan, MD
- Safe Routes to Schools, MD
- Bridgeport Intermodal Transportation Center, CT
- Dulles Corridor Rapid Transit Project Draft Environmental Impact Statement, VA
- Northern Virginia Bicycle and Trail Network Plan, VA
- Route 1 Beach Area Improvements, DE
- Hartland Three Corners Cultural Resource Review, VT
- Route 35 Corridor Planning Study, CT
- I-270 Multi-Modal Corridor Study, MD