

Hillsborough County Metropolitan Planning Organization
Scope of Services

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Ped/Bike Crash Areas in Unincorporated Hillsborough County.

Analysis of Specific Areas with Recommendations

Task Work Order URS – 8

September 12, 2011

Background

The Hillsborough County *2035 Long Range Transportation Plan* (LRTP) was adopted in December 2009. The *2035 Plan* stresses the need for a balanced, multi-modal transportation system and emphasizes a congestion management strategy described as “complete streets”. The objective of this strategy is to improve travel for all users including bicyclists, pedestrian, transit patrons, children, seniors and persons with disabilities. The LRTP designates a number of road segments in the Cost Affordable Plan as “enhanced”, which means that they will be improved to provide safer, more convenient and comfortable walking, cycling and transit use, as well as improvements such as turn lanes, “smart” traffic signals, and drainage improvements designed to improve traffic flow without increasing the number of lanes. Furthermore, the LRTP also designates a number of Pedestrian Emphasis Corridors and On-Road Bicycle projects (e.g., bicycle lanes and paved shoulders) in the Cost Affordable Plan, which were identified in prior pedestrian and bicycle master plans as high priority needs.

The purpose of this task is to identify the scope and location of needed pedestrian and bicycle improvements on selected corridors in unincorporated Hillsborough County in order to achieve safer, more convenient, and comfortable travel for all users. The MPO intends to use the results of this task to for a gradual implementation of measures along these corridors. In general, the project will follow the methodology and is anticipated to result in the type of recommendation(s) contained in the recently completed City of Tampa Walk-Bike Plan¹.

Task 1 – Gather Data on Existing Conditions

Working from the list of road corridors in **Attachment A**, the consultant will review and document existing conditions. It is anticipated that data will be obtained primarily from available documents and aerials (e.g., Google Earth), augmented by limited field observation. If available, data will include:

- Adjacent context of corridor, including:
 - Existing land uses*

¹ City of Tampa Walk-Bike Plan, Phase One, Final Report, June 2011, prepared by Tindale Oliver for Hillsborough MPO

- Major attractors/generators of pedestrians and bicyclists
- Schools
- Senior centers or other concentrations of vulnerable users
- Future land use designations*
- Planned new developments*
- Crash history for vehicular and non-motorized crashes*
- Latent demand for pedestrian and bicycle travel*
- Existing traffic data as available, including
 - AADT and peak hour volumes (assumes that no new traffic counts will be collected as part of this assignment)*
 - Turning movements
 - Multi-modal LOS*
 - Intersection LOS
 - Bicycle & pedestrian counts*
 - Transit ridership*
- Roadway configuration (from RCI or other available sources)
 - Functional Classification
 - Number of lanes & geometry
 - Design Speed/Posted speed limits
 - Design drawings, if available
 - Right-of-way from Right-of-Way maps, if available
 - Urban/rural section (curb & gutter or drainage swales)
 - Stormwater drainage structures (culverts, inlets, etc.)
 - Utility locations
 - Side streets/driveways spacing
- Presence/absence of features such as
 - On-street parking
 - Bicycle connectivity (network gaps, condition)*
 - Sidewalk connectivity (network gaps, condition, ADA compliance)*
 - Adjacent, parallel and/or connecting multi-use trails*
 - Crosswalks, including:
 - Location
 - Condition
 - Signage
 - Clear sight lines
 - Pedestrian signals
 - Signalized intersections
 - Raised or painted medians
 - Other access controls
 - Street lighting
 - Transit infrastructure:

- Bus stops (far side, near side, mid-block)
 - Shelters
 - Wheelchair landing pads
 - Sidewalk connections
 - Bus bays
 - Streetscape/landscape improvements
- * Data to be supplied by MPO.

Task 2: Identify Problems and Needs

The consultant will evaluate the need for Complete Street treatments along the selected corridors, considering adopted community plans, public input, project plans and prior studies as available. As needed, “windshield surveys” will be conducted to confirm existing conditions affecting pedestrians, bicyclists and motorists. Observed and documented deficiencies and needs affecting safety, mobility and aesthetics will be compiled in tabular and/or photographic form for each corridor.

Task 3: Evaluate Potential Solutions

For each corridor, the consultant will identify near term implementable ~~potential~~ solutions and countermeasures to address the deficiencies and needs identified in Task 2. Potential solutions to be considered will include but not be limited to those shown in **Attachment B**. Reference will be made to appropriate design criteria such as the FDOT *Plans Preparation Manual*, *Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways* (commonly known as the “Florida Greenbook”) and *Florida Pedestrian Planning and Design Handbook*. Lower cost/higher value improvements will be highlighted noted by the consultant. An order of magnitude cost estimate of the proposed improvements will be developed as part of this task.

Task 4: Implementation of Strategy for Potential Solutions

The consultant will identify conditions for safety grants, federal metropolitan funds and other funding including opportunities to collaborate with upcoming resurfacing and CIP projects. Consultant will rank and prioritize conditions for “other” funding based on based on factors which may include but are not limited to crash severity, cost/benefit analysis, likely funding sources, interagency coordination, physical constraints and impacts on other modes of travel.

Task 5: Reports and Presentations

The consultant will prepare a draft report documenting all findings and analysis. Recommendations will be drafted in a format suitable for implementing agencies to use in a scope of work. Schematic diagrams overlaid on aerials will be used as needed to pinpoint the location of recommended improvements. The consultant will be prepared to present the draft report to state and local implementing agencies as requested. In addition, the consultant will present the draft report to the

MPO Bicycle Pedestrian Advisory Committee (BPAC) and make the presentation available to MPO staff to deliver to other committee meetings. The consultant will also ~~support staff in~~ presenting the draft report to the MPO Board. The consultant will respond to feedback from all agencies and groups before finalizing the report.

Task 6: Meetings and Project Administration

The consultant will attend the following meetings:

- Kick-off meeting with MPO
- Meetings as requested with FDOT, Hillsborough County and Temple Terrace staff
- BPAC meeting
- MPO meeting

The consultant will provide monthly progress reports and invoices to the MPO

Deliverables

- Draft Report: one PDF copy on CD
- Draft and final PowerPoint Presentation
- Final Report: one copy, in both PDF and editable electronic format
- GIS files for any maps produced for the study

MPO Responsibilities

The MPO will be responsible for:

- Furnishing an initial list of corridors selected for evaluation, and confirming any corridors to be added, deleted or modified;
- Providing the rationale on why the corridors were selected;
- Furnishing the data on existing conditions indicated under task 1, above;
- Furnishing previous plans and studies for selected corridors, such as adopted community plans, non-motorized system plans, intersection master plan, bus stop accessibility studies, etc.

Schedule

The project will be completed within eight months of receiving a Notice to Proceed.

Fee

See Attachment C, Proposed Staff Hour and Fee Estimate.

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Attachment A
List of Corridors to be Evaluated

L RTP Project #	L RTP Rank	Facility	From	To	Needs Assessment Project Description
USF Area					
PEC165	84	56th St	Fowler Ave	Fletcher Ave	Pedestrian Enhancement Corridor
		42nd	Fletcher	Bruce B. Downs	
		46th St	Fletcher	Skipper	
		Skipper Road	46th	Bruce B. Downs	
Carrollwood					
ORB670	35	Fletcher Ave	North Boulevard	I-275	On Road Bicycle: Add Bicycle Lanes
		Northdale Blvd	Lakeshore	Claywell Elementary	
H1340 (UNF)	342	Northdale Blvd	Claywell Elementary	Dawnview Dr	4 Lanes Undivided to 4 Lanes with Enhancements
		Northdale Blvd	Dawnview Dr	Dale Mabry Hwy	
ORB710	229	Bearss Ave	Dale Mabry Hwy	22nd St	On Road Bicycle: Add Bicycle Lanes
Town N' Country / Egypt Lake					
ORB730	106	Waters Ave	Sheldon Rd	Anderson Rd	On Road Bicycle: Add Bicycle Lanes
ORB680	125	Waters Ave	Anderson Rd	Dale Mabry Hwy	On Road Bicycle: Add Bicycle Lanes
ORB360	76	Waters Ave	Dale Mabry Hwy	22nd St	On Road Bicycle: Add Bicycle Lanes
ORB750 (UNF)	310	Lambright Rd	Dale Mabry Hwy	Armenia Ave	On Road Bicycle: Re-Stripe
		Sligh Ave	Benjamin Rd	Dale Mabry Hwy	
PEC340	117	Hanley	Hillsborough Ave	Waters Ave	Pedestrian Enhancement Corridor
		Sheldon Rd	Hillsborough Ave	Linebaugh Ave	
Palm River - Coordination with South Coast Greenway					
H90	85	78th St	Madison Ave	Causeway Blvd	2 Lanes Undivided to 2 Lanes with Enhancements
PEC170	86	78th St	Causeway Blvd	Lee Roy Selmon	Pedestrian Enhancement Corridor
H1210	118	Maydell Dr	Causeway Blvd	Adamo Dr	2 Lanes Undivided to 2 Lanes with Enhancements
Citrus Park - Coordination with Upper Tampa Bay Trail					
H650	120	Gunn Hwy	Ehrlich Rd	Citrus Park Dr	2 Lanes Undivided to 2 Lanes with Enhancements
ORB610 (UNF)	384	Gunn Hwy	Ehrlich Rd	Citrus Park Dr	On Road Bicycle: Add Bicycle Lanes
ORB620	226	Gunn Hwy	Citrus Park Dr	Henderson Rd	On Road Bicycle: Add Bicycle Lanes
ORB630 (UNF)	448	Gunn Hwy	Tarpon Springs	Van Dyke Rd	On Road Bicycle: Paved Shoulders
Brandon					
		Parsons Ave	SR 60	M L King Blvd	
		Mango Rd (CR579)	M L King Blvd	N of I-4	
		Providence Rd	Bloomingdale Ave	SR 60	
ORB790	180	Bloomingdale Ave	US Hwy 301	Bell Shoals Rd	On Road Bicycle: Re-Stripe
ORB720	228	Bloomingdale Ave	Bell Shoals Rd	Cade Ln	On Road Bicycle: Add Bicycle Lanes
		Bloomingdale Ave	Cade Ln	Lithia Pinecrest	

Attachment B
Evaluation of Enhanced Roads
Potential Improvements

Pedestrian Improvements

- Continuous sidewalks
- Crosswalks
 - At intersections
 - At mid-block locations
 - Higher visibility, e.g., painted or textured pavement treatment
- Curb extensions, smaller turning radii
- ADA compliant ramps, sidewalk widths, and grades
- Median & right-turn island refuge areas
- High visibility pedestrian signage, crosswalk signals, push buttons and beacons
- Street lighting
- Street trees
- Landscaped buffers between travel lanes and sidewalk

Bicycle Improvements

- Paved shoulders
- Designated bicycle lanes
- Reduced travel lane and/or median widths to accommodate bicycle lanes
- Lane reduction and conversion to bicycle lanes (road diet)
- Wide outside lanes
- Bicycle signage
- Shared lane marking (sharrows)
- Painted bicycle lanes
- Multi-use trails and side paths
- Colored bike lanes

Transit Improvements

- Bus stop location and spacing
- Shelters
- Wheelchair landing pads
- Closer proximity to crosswalks
- Sidewalk connections
- Bus pull-outs
- Transit Signal Prioritization
- Queue jump lanes
- Passenger information systems

Traffic Flow Improvements

- Turn lanes
- Storage bay lengthening
- Signal timing, coordination, responsive traffic control programs, other ITS enhancements
- Access management such as driveway consolidation, closing median openings, etc.
- Stormwater drainage and treatment
- On-Street parking
- Landscape and streetscape traffic calming measures

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TASK WORK ORDER: Comprehensive Pedestrian Plan Update Phase 1: Unincorporated Hillsborough County Walk & Bike Facilities

Tasks/Deliverables	Assumptions	Est. Hours	Staff
TASK 1 - Gather Data on Existing Conditions	Gather & desk review of available LU, crash, traffic data & maps		Planner, tech
TASK 2 - Identify Problems and Needs	Field survey of corridors @ 4 to 8 hours each		Planner, tech
TASK 3 - Evaluate Potential Solutions, including cost estimates			
TASK 4 - Ranking and Prioritization of Potential Corridor Solutions	Draft and final report; prepare PowerPoint presentation		
TASK 6 - Meetings & Project Administration	7 meetings; project duration of 8 months		PM, Senior Engineer