

**Metropolitan Washington Council of Governments
Commuter Connections**

**Proposal for
Bicycle Route-Finding Web Site**

Scope of Work – December 17, 2007

**Submitted
January 11, 2008**

Prepared by:



**1749 Old Meadow Road, Suite 500
McLean, Virginia 22102
(703)848-2400 ■ (703)848-0804 (Fax)
www.basetech.com**

**Proposal for MWCOG Commuter Connections
Bicycle Route-Finding Web Site Scope of Work
between
Metropolitan Washington Council of Governments
and Base Technologies**

Background

The Metropolitan Washington Council of Governments (MWCOG) Commuter Connections will embark on Phase II of planning and implementation of a Web-based regional bicycle route-finding system in FY2008. Phase I, which provided for data gathering and compilation of available data, including that for DC, Alexandria, and Arlington, was completed by the Washington Area Bicyclist Association at a cost of \$33,000. Phase II, which includes creation and testing of the bicycle route-finding web site (using data gathered in Phase I) is being shifted to the current contract between the Metropolitan Washington Council of Governments and Base Technologies, Contract No. 08-004, dated August 7, 2007 by mutual agreement.

Understanding of Work

The following tasks will be completed by Base Technologies:

- A point to point online bike route mapping system based on origin and destination addresses.
- A mapping system based on available GIS (geographic information system) data that will generate routes based on the prioritization of off-street trails and/or streets containing bicycle lanes, followed by signed bike routes, and then streets identified by area bike planners as preferred streets for cycling. However, if the above data is not available from a jurisdiction, speed limit, functional classification, and traffic volume data will be used to determine routes.
- In addition to printable maps, the system will produce a turn by turn directional cue sheet for each route that is generated.
- Integration and matching of available GIS data from participant jurisdictions, including bike trail, bike lane, signed bike route, and recommended route data where available.
- A satellite mapping interface for easy landmark identification, if feasible with available data.

In order to accomplish these tasks, MWCOG Commuter Connections will 1) collect existing GIS data sets from MWCOG, TPB member jurisdictions and other jurisdictions willing to provide data, and 2) will obtain Z-levels for bicycle route and path information from these sources.

Base Technologies will be responsible for 1) integration of available data, 2) integration of feedback information from volunteer users, WABA, and TPB staff to assure validity of generated routes, and 3) quarterly updates and integration of new GIS data sets.

The target date for completion of the described work is June 30, 2008. Base Technologies will utilize the current MWCOG, BTI team including Patrick Holway, to complete the described tasks.

Price and Payment Terms

Base Technologies will perform the work as described in this agreement for firm fixed price of \$25,000. Base Technologies will invoice MWCOG the full \$25,000 upon completion of the described creation and testing of web site.