

September 7, 2010

Subject: Professional Service Bid Solicitation
Aerial Traffic Assessment for
I-376 (Parkway West) from I-79 to the Fort Pitt Tunnels
Allegheny County, Pennsylvania

To whom it may concern:

Michael Baker Jr., Inc. (Baker) is soliciting professional service bids for the above referenced project. The project will be completed in a maximum of six (6) months from the date of notice to proceed.

Detailed proposal requirements are contained within this Bid Solicitation. For further information, please submit questions in writing to Jim Katsafanas, P.E., PTOE via fax at 412-375-3994 or via email at jkatsafanas@mbakercorp.com.

Interested professional service providers shall prepare and submit a detail proposal and cost. Proposals will be accepted until 4:00 PM (Eastern Standard Time) on September 21, 2010 at:

Michael Baker Jr., Inc.
Attn: James J. Katsafanas, P.E., PTOE
Airside Business Park
100 Airside Drive
Moon Township, PA 15108

SCOPE OF WORK

Introduction

Michael Baker Jr., Inc. (Baker) is requesting proposals from qualified service providers, hereafter referred to as the Provider, to provide support of the I-376 Parkway West Traffic Study. The study is being funded by the Pennsylvania Department of Transportation, Engineering District 11-0 (PennDOT 11-0) and is being performed by a Consultant Team lead by Baker. The data for this study will be collected through an aerial survey. The data to be derived from the aerial survey includes: freeway traffic density/LOS, mainline queuing, ramp queuing, origin-destination information, and time-lapse photography to assist with stakeholder coordination. Ultimately, the aerial survey will verify bottleneck locations and establish a baseline for future before and after study.

The project is located southwest of downtown Pittsburgh, Pennsylvania on I-376 (Parkway West) from I-79 to the Fort Pitt Tunnels. The investigation will also include the interchanges with I-79, Rosslyn Farms, Carnegie, Greentree, Parkway Center, Banksville Road, and SR 51. The project area is shown graphically on Exhibit 1.

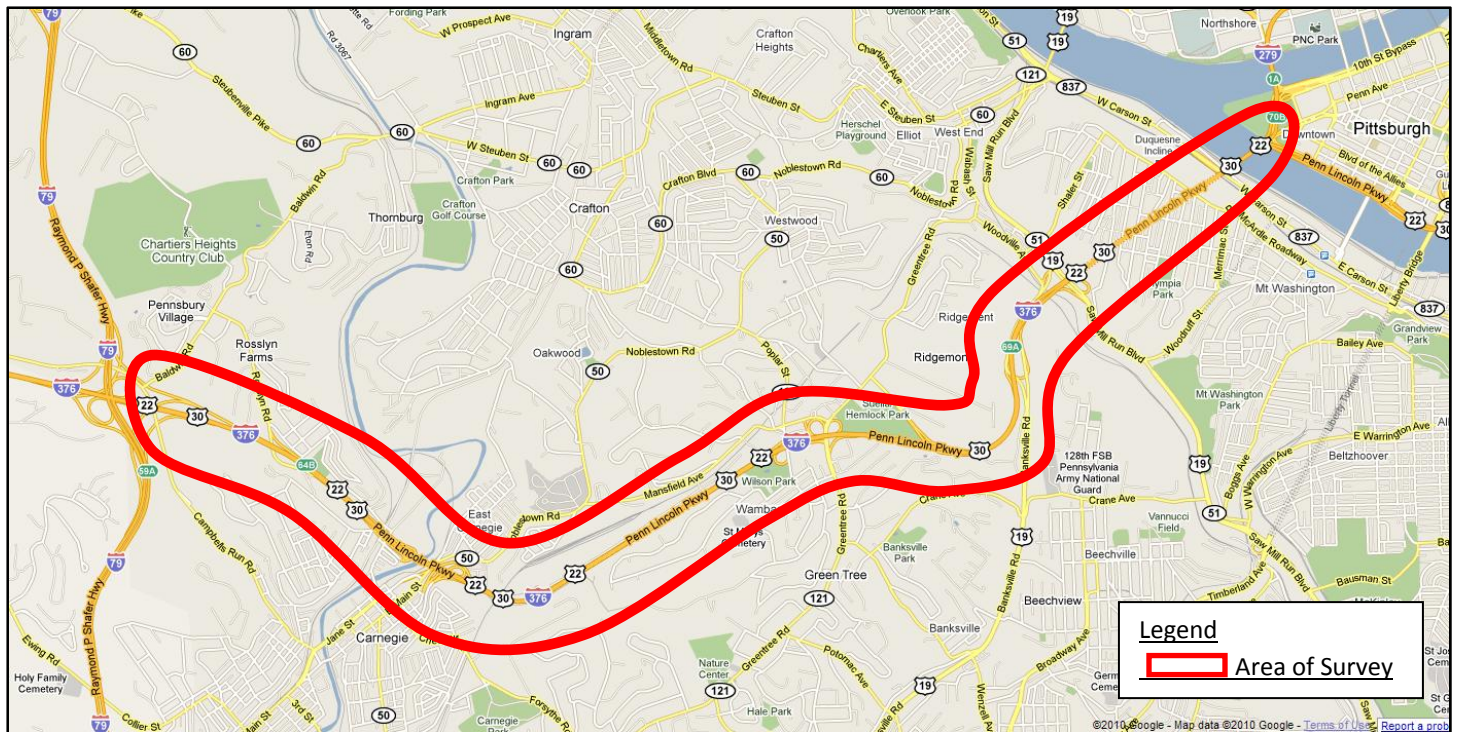


Exhibit 1. Area of Aerial Survey

Proposed Tasks

The Provider is encouraged to develop a sound analytical approach which achieves the goals for this project. The Provider is urged to be as specific as possible when describing the activities

that will be performed to support each task. The Provider's proposal should generally include detailed descriptions of the following major tasks:

- Task 1. Collect Traffic Data – Time-Lapse Aerial Photography
- Task 2. Data Processing
- Task 3. Final Report & Deliverables
- Task 4. Project Coordination and Meetings

Task 1. Collect Traffic Data – Time-Lapse Aerial Photography

In this task, the Provider will collect and record traffic conditions using an aerial survey platform. Aerial surveys will be completed while local schools are in session and will take place during a typical weekday (Tuesday, Wednesday, or Thursday). Surveys will be conducted during the AM and PM peak periods and shall be of sufficient length to document development and dissipation of vehicular congestion. Available traffic count information will be provided to the Provider to assist in determining appropriate time periods for each peak period. For the purpose of estimating, assume a 2.0 hour period in the AM and a 2.0 hour period in the PM.

The aerial survey tasks shall provide the following information for use by Baker in the overall I-376 Parkway West Study. The Provider's proposal shall detail their methodology to compile the desired information as described below:

- A. During the aerial survey, traffic operations will be observed to identify bottlenecks and points of traffic flow constraints (abrupt lane shifts, compromised weaving areas, etc.) and to geographically identify potential contributing causes to operational deficiencies (high entrance ramp volumes, disproportionately high demand volumes at select locations, etc.) This data will be used to supplement "on-ground" operational assessments conducted by Baker.
- B. Vehicle densities will be recorded and compiled for pertinent roadway segments to provide a quantifiable basis to relate the aerial survey observations with ground-observations (by Baker) and traffic engineering analysis (by Baker). The Provider will collect sufficient information to assign a Level of Service to each analysis segment within the study area for both AM and PM peak periods.
- C. The Provider will track vehicles to develop localized Origin-Destination (OD) parameters at the Greentree/Parkway Center interchange area and at the Banksville Road/SR 51 interchange area for the AM Peak and PM Peak periods. The Banksville Road/SR 51 area OD information will also include the Fort Pitt Bridge on the east side of the Fort Pitt Tunnels for the inbound (eastbound) direction only. Origin-Destination data should be collected at a minimum of 25% sampling rate during the time frames established above.

The Provider will determine the appropriate aerial survey means and methods to collect the desired information.

Task 2. Data Processing

In this task, the Provider will process all data collected to develop the requested information detailed above. The Provider shall provide internal quality assurance and quality control measures to review their work prior to submission to Baker. Quality control and quality assurance procedures should be outlined in the Provider's bid.

Task 3. Final Report & Deliverables

The Provider shall prepare a bound written report documenting the results of the aerial survey. Baker shall be provided a copy of the draft report for review prior to finalizing in order to coordinate aerial and ground observations.

The following deliverables shall be delivered to Baker:

- Three (3) full color hard copies of the report,
- One (1) reproducible full color electronic report in PDF format,
- Three (3) hard copies of any appendices, and
- Optical Media (DVD or CD) containing all collected aerial photographs, report narrative, graphics, and figures.

All rights to the reports and aerial photographs shall become the property of The Pennsylvania Department of Transportation at the conclusion of the contract.

Task 4. Project Coordination & Meetings

The Provider is expected to coordinate their work with the simultaneous ground observations and traffic engineering analysis being performed by Baker. Baker will provide assistance, as necessary, to complete the aerial survey and coordinate with PennDOT. The Provider shall be available via phone and/or email to respond to questions/issues/inquires within one (1) business day.

The Provider shall include two (2) face-to-face meetings in Pittsburgh, Pennsylvania in its cost. One (1) face-to-face meeting is anticipated with the Baker and PennDOT prior to conducting the aerial survey. The remaining face-to-face meeting will take place to present the findings of the aerial survey after the final report has been completed.

Additional Information and Requirements

The Provider will be required to enter into a contractual relationship with Michael Baker Jr., Inc. and shall accept the Baker's Terms & Conditions (provided upon request). Invoices shall be submitted in accordance with the Terms & Conditions and Baker will make payment to the professional service provider within ten (10) days of receiving payment from the Owner (i.e. PennDOT).

A certificate from the Provider's insurance company shall be delivered to Baker's office prior to the beginning of work. Additionally, Michael Baker Jr., Inc. and the Pennsylvania Department of Transportation, shall be named as additional insured on the certificate.