



November 21, 2014

Shoreh Elhami  
Citywide GIS Manager  
City of Columbus, Department of Technology  
1111 East Broad St  
Columbus, OH 43205

RE: INTEGRATING PUBLIC WARRIOR WATCH APPLICATION INTO MY COLUMBUS

Dear Ms. Elhami:

On behalf of the City of Columbus Department of Public Service (DPS) and Department of Technology (DoT) T&M successfully developed the Warrior Watch web application (<http://warriorwatch.columbus.gov>) using HTML 5 and JavaScript. The application allows citizens of Columbus to view which streets have received snow and ice treatment in real-time and check snow removal priority designations for City of Columbus streets.

## SCOPE OF SERVICES

### Task 1: Application Maintenance, Documentation, & General Support – \$12,210

T&M will support DoT staff by performing general maintenance on the existing data sets and server side processes for Warrior Watch (Public Release Only). T&M GIS staff will work with DoT staff to properly document existing data workflow and future maintenance procedures (Internal and Public Warrior Watch). T&M will provide this support on an hourly basis and estimates approximately 80 hours of support.

Examples of support tasks include:

- Monitoring system performance during peak operations.
- Onsite meetings and support.
- Generating documentation of data workflow and maintenance procedures.
- Generating documentation of public warrior watch application deployment and configuration in addition to T&M's previously delivered application maintenance plan.

### Task 2: Assumptions

- T&M will provide application maintenance, documentation, and general support services on an hourly basis. Please see included hourly rate table for key staff.
- T&M will require access to City of Columbus servers either in person or via remote access.



YOUR GOALS. OUR MISSION.

## Task 2: Application Maintenance, Documentation, & General Support Contingency -\$15,000

T&M will notify DoT staff when the labor expenditure reaches 90% of the total estimate for Task 1. In the event of any unforeseen circumstances occurring, a contingency amount of \$15,000 is being identified. No work will be done utilizing the contingency funds as identified unless approved and authorized by the appropriate City of Columbus authority.

### COST & SCHEDULE

A cost table and schedule for completing the scope of work is provided in Table 1:

<b>Table 1. Cost and Schedule</b>	<b>Cost</b>	<b>Duration</b>
<b>Task 1: Application Maintenance, Documentation, &amp; General Support</b>	\$12,210	2 Months
<b>Task 2: Application Maintenance, Documentation, &amp; General Support Contingency</b>	\$15,000	4 Months
<b>Total</b>	\$ 27,210	6 Months

Labor rates for key staff are provided in Table 2:

**Table 2. Labor Rates**

	<b>Sr. Application Developer</b>	<b>Jr. Application Developer</b>	<b>Project Manager</b>
<b>Hourly Rate</b>	\$ 106	\$ 90	\$ 168

T&M appreciates the opportunity to work with you on this project and we look forward to working with you on future endeavors. If you have any questions regarding the proposal please feel free to contact me with any questions.

Sincerely,

T&M Associates

Erick Lobao, GISP  
GIS Manager