



CITY OF KIRKLAND
Department of Public Works
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MEMORANDUM

To: Kurt Triplett, City Manager

From: David Snider, P.E., Capital Projects Manager
Pam Bissonnette, Interim Public Works Director

Date: August 22, 2013

Subject: KIRKLAND ITS IMPLEMENTATION PHASE IA - TRAFFIC MANAGEMENT CENTER AWARD CONTRACT

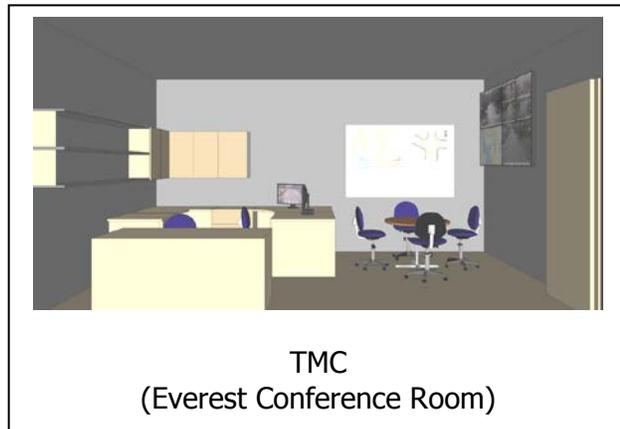
RECOMMENDATION:

It is recommended that City Council awards the construction contract for the Kirkland Intelligent Transportation Systems (ITS) Implementation Phase IA – Traffic Management Center (TMC), to Bayley Construction, Mercer Island, WA, in the amount of \$104,025.00.

BACKGROUND DISCUSSION:

Phase I of Kirkland’s ITS Program is planned to be constructed with two separate construction contracts. Phase IA (this memo) will convert the Everest Meeting Room in City Hall into a new TMC and represents the “facility” improvement element for the Phase I Project. The Phase IB element provides for the installation of signal equipment and will be advertised for contractor bids in the fall, of 2013. The future Phase IB portion of the Project represents the field related improvements along two arterial corridors; the Lake Washington Blvd/Market St/ 98th/100th Ave NE Corridor, from State Route 520/Northup Way to NE 132nd Street; and the Central Way/NE 85th Street Corridor, from Market Street to 132nd Ave NE (Attachment A). The Phase IB project is scheduled to begin construction in late 2013 to early 2014 with the design consultant currently finalizing those plans and specifications.

This Phase IA contract will construct two key elements of Kirkland’s traffic management system. One part is the video management system which provides real-time traffic monitoring with frequently updated still images from the Closed Circuit Television (CCTV) cameras showing current traffic conditions through the City’s website for the general public. The second part is a central traffic management system that interfaces between the ITS field devices and the TMC. This will allow for real-time remote control and adjustment of the traffic signals from the TMC, including maintenance monitoring.



The subject contract constructs a TMC; however, a more fully operational traffic management system will not be completed until the Phase IB work is complete when new ITS field equipment is installed, including: traffic signal controllers, cabinets and switches, CCTV traffic monitoring cameras and video detection. The Phase IB project will enable the TMC to communicate with ITS field equipment through the City's fiber optic network.

At their June 4 Study Session, staff presented a full report to City Council on the various ITS project phases and programs. The Study Session also included a demonstration of the common components of Kirkland's ITS system, the benefits of ITS, and some operational aspects of ITS. The Kirkland ITS Implementation Phase I Project is funded through a combination of a federal Congestion and Mitigation of Air Quality (CMAQ) grant at \$1,800,000, plus a contribution of \$281,000 City funds for a total Project budget of \$2,081,000.

With an engineer's construction estimate of \$169,720, the Phase IA TMC was first advertised on July 23, 2013. A mandatory pre-bid conference was held on August 1 to review the scope of work and to walk through the area to be improved with prospective bidders. On August 13, 2013, two contractor bids were received with Bayley Construction being the lowest responsive bidder, as shown:

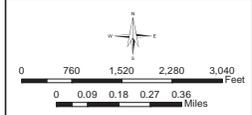
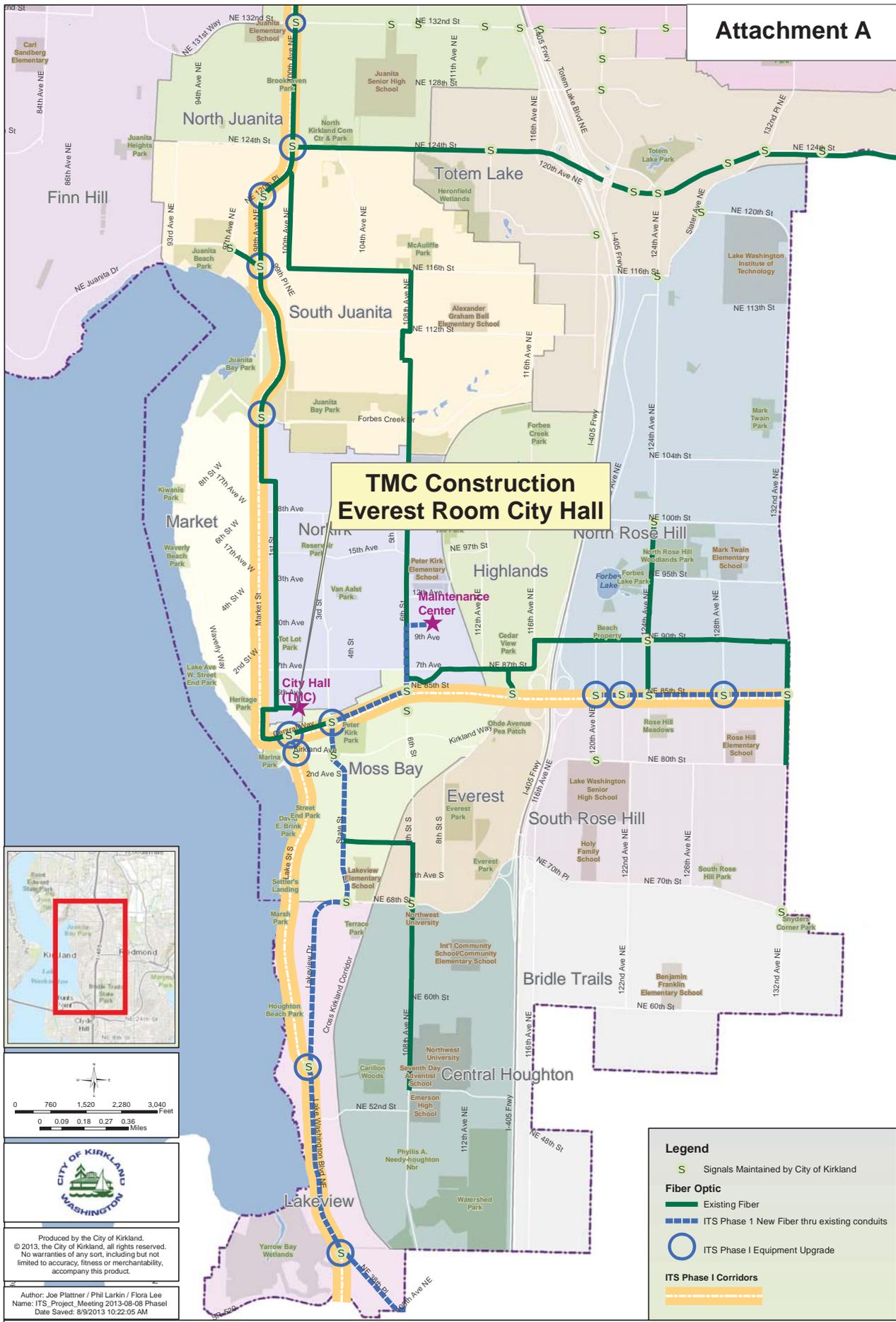
Contractor	Total Bid
Bayley Construction	\$104,025.00
Northern Pacific Construction	\$134,137.50
<i>Engineer's Estimate</i>	<i>\$169,720.00</i>

The bid price received is well within the overall Phase 1A budget of \$250,000 for the TMC work (Attachment B). All unspent funds for the TMC will remain available for the Phase IB work.

With an award of the construction contract by City Council at their September 3 meeting, construction of the TMC will begin in October with substantial completion expected in December, 2013. In advance of construction, Public Works staff will coordinate with impacted City Hall departments and provide applicable schedules and work hours.

Attachment A: Vicinity Map

Attachment B: Project Budget Report



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Legend

- S Signals Maintained by City of Kirkland
- Fiber Optic**
 - Existing Fiber
 - ITS Phase 1 New Fiber thru existing conduits
- ITS Phase I Equipment Upgrade
- ITS Phase I Corridors**
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Kirkland ITS Implementation, Phase IA - Traffic Management Center (TMC)

Vicinity Map

Kirkland ITS Implementation, Phase IA - Traffic Management Center
(CTR-0111)

Attachment B

Project Budget Report

