



**City of Rochester Hills  
AGENDA SUMMARY  
FINANCIAL ITEMS**

**1000 Rochester Hills Dr.  
Rochester Hills, MI 48309  
248.656.4630  
[www.rochesterhills.org](http://www.rochesterhills.org)**

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**Legislative File No: 2008-0068**

**TO:** Mayor and City Council Members

**FROM:** Roger Rouse, Department of Public Service, Ext. 2497

**DATE:** February 7, 2008

**SUBJECT:** Traffic Signal Upgrade and Modernization at the intersection of Old Perch and Avon Road – Four (4) Phase Flashing Yellow Left-Turn Arrow

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**REQUEST:**

City Council is requested to authorize the issuance of a blanket purchase order to the Road Commission for Oakland County (RCOC) for the upgrade of the existing traffic signal for a total blanket purchase order amount of \$40,950.00, which includes a \$1,950.00 (5%) contingency for miscellaneous construction items associated with the installation of the proposed traffic signal upgrade.

**REASON FOR PURCHASE:**

The proposed traffic signal upgrade at the intersection of Old Perch/Avon Road will incorporate the new four (4) phase left-turn signal (RCOC and LTAP brochures attached), as has been recently installed at the intersections of Old Perch/Walton Blvd and Adams/Auburn, and as has been proposed at Brewster/Walton Blvd. The installation of the new flashing yellow left-turn signal will provide improved safety and minimize traffic delays. The new signal configuration will include a “box-span” design, which provides separate signal heads for each leg of the approach, as opposed to the older “span-wire” designs that utilized a single set of signal heads for all approaching legs. The modern “box-span” design also allows for improved visibility and reduces the potential for red light running. The installation of the four (4) phase traffic signal upgrade at the Old Perch/Avon Road intersection will improve the safety and the uniformity of the “T” intersections within the City’s jurisdiction, i.e. Old Perch/Walton Blvd (installed), Brewster/Walton Blvd (proposed).

The estimated costs for the proposed traffic signal upgrade, including design and installation, is \$117,000.00, of which the City is responsible for 33-1/3%, or \$39,000.00. The associated City costs include upgrading the approaching pedestrian pathway ramps as mandated under the American with Disabilities Act (ADA).

Under the terms and conditions of separate agreements with the RCOC, the City of Rochester Hills has agreed to pay for a shared percentage of costs associated with installing, upgrading, and maintaining traffic signals on our major roads. The actual cost to maintain and/or repair traffic signals varies from month to month, typically \$500.00 to \$2,000.00, depending on the volume and nature of the service requests that are performed by RCOC, as well as the number of intersection approach legs under City jurisdiction. These costs include electricity, labor, equipment, and materials and are included in the City’s annual traffic signal maintenance budget. Approval of the attached traffic signal agreement will supersede the existing signal agreement for this intersection.

**PROCESS:**

**Vendor Name and Address:**

Road Commission for Oakland County  
2420 Pontiac Lake Road  
Waterford, Michigan 48328

**Reason for Selection:**

Terms and Conditions of a Separate Agreement

**Method of Purchase:**

Purchase Order

**BUDGET:**

Costs associated with the proposed traffic signal upgrade at Old Perch and Avon were not specifically included in the 2008 annual traffic signal operating budget, however, due to the reinstatement of the federal *Congestion Mitigation and Air Quality Improvement (CMAQ)* grant monies in 2007, which assists with funding the SCAT traffic signal operation and maintenance costs, the RCOC and City are able to take advantage of the cost reduction and utilize toward this signal upgrade. The City’s share of traffic signal operating costs was reduced from approximately \$95,000.00 in FY 2006 to approximately \$50,000.00 in FY 2007. The reduction in the City’s signal operation and maintenance costs, affords the City the opportunity to improve the traffic safety at the intersection at Old Perch and Avon without having to increase the 2008 annual traffic signal operating budget. It is anticipated that, at the current traffic signal operation and maintenance cost rates, the remaining budget of \$68,200.00 will be sufficient to cover the 2008 traffic signal annual operating costs.

<b>Fund Name</b>	<b>Department Account No</b>	<b>Account No. Description</b>	<b>Budget Amount</b>	<b>Cost</b>	<b>Remaining Budget</b>
Major Road	472.807003	Traffic-Contractual Oakland County	\$150,000.00	\$40,950.00	\$68,200.00 <sup>1</sup>

<sup>1</sup>The remaining budget amount of \$68,200.00 reflects the budget balance with the traffic signal upgrade at Brewster and Walton Boulevard being approved. If the signal upgrade at Brewster and Walton Boulevard were not approved, the remaining budget balance would be \$109,150.00.

**RECOMMENDATION:**

It is recommended that City Council authorize the issuance of a blanket purchase order to the Road Commission for Oakland County (RCOC) for the installation, maintenance, and repairs of the proposed traffic signal upgrade at the intersection of Old Perch and Avon Road for a total blanket purchase order amount of \$40,950.00 and authorize the Mayor to execute the agreement & the Clerk to issue a certified resolution on behalf of the City.

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**RESOLUTION**

**NEXT AGENDA ITEM**

**RETURN TO AGENDA**

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<b>APPROVALS:</b>	<b>SIGNATURE</b>	<b>DATE</b>
<b>Department Review</b>		
<b>Department Director</b>		
<b>Budget Content: Finance Director</b>		
<b>Purchasing Process: Supervisor of Procurement</b>		
<b>Mayor</b>		
<b>City Council Liaison</b>		

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