



**CITY of NOVI CITY COUNCIL**

**Agenda Item E  
April 18, 2016**

**SUBJECT:** Approval to award Novi Enterprise Asset Management System (NEAMS) implementation & system upgrade services to Power Engineers in the amount of \$23,867.

**SUBMITTING DEPARTMENTS:** Department of Public Services and Information Technology

**CITY MANAGER APPROVAL:** *[Signature]*

<b>EXPENDITURE REQUIRED</b>	<b>\$ 23,867</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 23,867</b>
<b>APPROPRIATION REQUIRED</b>	<b>\$ 0</b>
<b>LINE ITEM NUMBERS</b>	101-442.20-986.000 - \$9,867 209-000.00-986.000 - \$4,133 592-592.00-986.000 - \$9,867

**BACKGROUND INFORMATION:**

The Novi Enterprise Asset Management System has grown incrementally since its initial approval by the Novi City Council in 2012. The City of Novi Department of Public Services and Information Technology Department have leveraged this technology solution to improve the operations and maintenance practices involving the City's water, sewer, road, storm water, non-motorized, forestry, and park infrastructure. This asset management strategy will improve the operational efficiency of these systems by reducing operating and capital replacement costs and improving customer service by managing public service requests so they can be efficiently received, prioritized, and satisfied. As part of this project, Power Engineers will upgrade the system software and databases to gain functionality from new versions of the Esri GIS and Azteca Cityworks software programs. Additionally, an enhancement will be developed to streamline data entry in the field on the users' mobile devices.

**NEAMS Advances Our City Council's Goals**

The NEAMS asset management program will advance the City Council's goals of improving infrastructure and maintaining a fiscally responsible government. The system is also designed to evolve and mature with the City's increased operational needs. The system is designed to associate calls for service with work performed to manage, restore, rehabilitate, and/or replace affected assets in areas the City has the responsibility to maintain including public right-of-ways, parks, City facilities, and sidewalk/trail systems. City staff must accurately and efficiently represent their work activities in a timely manner in order to maximize the recognized value of City services to residents and businesses.

**RECOMMENDED ACTION:** Approval to award Novi Enterprise Asset Management System (NEAMS) implementation & system upgrade services to Power Engineers in the amount of \$23,867.

	1	2	Y	N
<b>Mayor Gatt</b>				
<b>Mayor Pro Tem Staudt</b>				
<b>Council Member Burke</b>				
<b>Council Member Casey</b>				

	1	2	Y	N
<b>Council Member Markham</b>				
<b>Council Member Mutch</b>				
<b>Council Member Wrobel</b>				



POWER ENGINEERS, INC.

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March 30, 2016

Keri Blough, Geospatial Applications Services Manager  
Geographic Information Services  
City of Novi, IT Department  
45175 W. Ten Mile Road  
Novi, MI 48375

ENERGY

FACILITIES

COMMUNICATIONS

ENVIRONMENTAL

Subject: Quote for Cityworks 2015 SP1 Upgrade and AssetID Trigger

Hi Keri:

Thank you for the opportunity to provide this quote to upgrade Cityworks to AMS 2015 SP1 and implement a database trigger to populate the AssetID field when a feature class or object class is created via ArcMap or Cityworks. Also included is an upgrade to the latest version of ArcGIS supported by Cityworks 2015 SP1. The following is a description of the general implementation approach for the project.

- Task 1 Project Management**
  - 1.1 Project Supervision
  
- Task 2 Software Upgrade**
  - 2.1 Cityworks/ArcGIS Server Test System Installation and Testing
  - 2.2 Cityworks/ArcGIS Server Production System Installation and Testing
  
- Task 3 AssetID Database Trigger**
  - 3.1 Develop and Test in POWER Development Environment
  - 3.2 System Test in Novi Test System
  
- Task 4 Cityworks Deployment**
  - 4.1 Remote System Deployment Support

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**Objective(s):**

- Upgrade NEAMS to AMS 2015 SP1
- Upgrade ArcGIS Server to the most current version supported by Cityworks
- Develop a database trigger to populate the AssetID field when a feature class or object class is created via ArcMap or Cityworks

**Responsibility:** POWER

**Duration:** 1 Month

**Location:** POWER Office/City of Novi via VPN

**Resources:** Mark Rytlahti/POWER Developer

**Description**

POWER will use a similar process that was used for the upgrade of Cityworks for previous phases of NEAMS. This will include the following:

- Project Management
- Software Upgrade
  - Upgrade the NEAMS website to Cityworks AMS 2015 SP1
  - Upgrade the City's GIS to the latest ArcGIS version compatible with Cityworks AMS 2015 SP1. This is anticipated to be ArcGIS 10.3.
- Develop a database trigger to populate the AssetID field when a feature class or object class is created via ArcMap or Cityworks.
- Cityworks Deployment Support
  - Up to eight hours of remote post deployment support

**Assumption(s):**

- The City will provide POWER with a copy of the GIS and Cityworks databases at the start of the project. These will be used to establish the POWER development environment.
- POWER will have remote access to the City's equipment to install software and the database trigger.
- POWER will have access to the City's IT staff as needed during the software installation and testing process.
- Deployment support will be conducted remotely.
- Travel by POWER staff is not required for this project
- All training will be conducted by Novi staff.

**Client Responsibilities:**

- Assign a project manager that is knowledgeable of the project and business requirements and has general decision-making authority to ensure timely resolution of issues that could impact the project schedule.
- Obtain licenses for and download all required Esri software.
- Clone a test virtual machine from the current NEAMS server.
- Provide IT staff to support POWER during the software installation and testing process as needed.
- Provide remote access to the City's equipment to install software.
- Install ArcGIS 10.3 on all client desktops.

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- Coordinate departmental participation for the deployment and acceptance testing.
- During testing, the City will provide a description of the issue and provide access to the system.
- The City will be responsible for training end-users on the new version of Cityworks.

#### BUDGETARY ESTIMATE

POWER is estimating that the cost of the AMS 2015 SP1 upgrade and AssetID trigger development will be **\$23,867**.

The cost is broken down between system upgrade costs and AssetID trigger development as shown below:


Task	Database Trigger	AMS 2015 SP1 Upgrade
Software Upgrade and Testing		\$7,920
Database Trigger	\$12,400	
Deployment Support		\$1,320
Project Management		\$2,227
<b>SUB TOTAL</b>	<b>\$12,400</b>	<b>\$11,467</b>
<b>TOTAL</b>	<b>\$23,867</b>	

It is not anticipated that there will be any travel costs associated with this project. The total cost of the proposal does not include sales tax where applicable. The City is responsible for any taxes, duties, or fees.

Payment will be based upon task completion with payment due net 30 days. Project management services will be invoiced monthly based on percent complete. All change orders will be performed on either a time and expense or fixed price basis.

All POWER invoices are due 30 days after date of the invoice. Payments made after 30 days will be subject to a 1½ % per month late charge.

Sincerely,



Mark Rytilahti  
 Senior Consultant