



City of Grand Island

Tuesday, July 9, 2013

Council Session

Item G-8

#2013-219 - Approving Agreement with IMS Infrastructure Management Services for Pavement Management Services

Staff Contact: John Collins, P.E. - Public Works Director

Council Agenda Memo

From: Scott Griepenstroh, Project Manager

Meeting: July 9, 2013

Subject: Approving Agreement with IMS Infrastructure Management Services for Pavement Management Services

Item #'s: G-8

Presenter(s): John Collins PE, Public Works Director

Background

All agreements must be approved by the City Council.

For over two decades, proper funding for our nation's transportation infrastructure has been the subject of frequent debate. In spite of strong consensus among politicians and the electorate that a sound national transportation network is vital to economic growth, safety and our way of life, revenues fail to keep pace with preservation and maintenance of an aging system, leaving few or no resources for new capacity and improvements. According to a 2009 report by the National Surface Transportation Infrastructure Financing Commission, annual revenues raised by all levels of government for capital investment total only about one-third of the roughly \$200 billion necessary each year to maintain and improve the nation's highways and transit systems.

On the local level, the challenges we face for sustaining our roadway network are similar to those encountered by state and local transportation officials throughout the nation. Aging pavements, increased traffic volumes, heavier traffic loads, higher construction costs, and scarcity of resources impair efforts to preserve and improve our City's roadway network. Additionally, both research and experience have proven that deferring needed maintenance today will ultimately result in much greater costs "down the road."

Our City's roadway network consists of over 300 centerline miles of streets, or approximately 900 lane miles (a lane mile is the equivalency of roadway converted into a one mile long 10-foot wide road, and is a basis for calculating our gas tax allocation). Our concrete streets comprise approximately 66% of all streets, and the average age of these concrete pavements is around 42 years. Our asphalt streets comprise approximately 32% of all streets, and the average age of the pavement structure, which includes the base

pavement, is around 62 years old. Brick streets are under 1% of the total, with an average age of approximately 93 years. The total cost to replace all these pavements (excluding additional costs like curb replacement, improving drainage, widening for capacity, etc.) would exceed \$250,000,000.

As a result of the Public Works Department's emphasis on asset management, the Engineering and Streets Divisions have been collaborating to develop a Pavement Management System to ultimately guide decisions for funding and programming maintenance and construction activities for our streets. This contract will also ensure that the requirements of the federally mandated Pavement Management System are met.

A Pavement Management System is a set of tools and methods that assists decision makers in finding optimum strategies for providing and maintaining pavements in an acceptable, serviceable condition over a given time period. This is accomplished by assigning performance curves to various pavements for predicting deterioration, identifying cost effective preventive maintenance strategies, and establishing prioritization protocols.

The primary goal of the Pavement Management System is to identify the optimal level of funding, timing and renewal strategy an agency should adopt to keep its pavement network at a satisfactory level of service. Decisions are typically biased towards preventive maintenance, rather than allowing streets to deteriorate until they need more extensive reconstruction. The Pavement Management System will assist us in making decisions to implement the right maintenance activities at the right times.

Currently, Public Works utilizes Cartegraph asset management software as a database to store the physical characteristics (length, width, etc.), demographic attributes (pavement type, traffic, functional classification) and construction history of all the City's streets. Until recently, Engineering Division staff annually conducted pavement assessments and recorded the data into Cartegraph to report an overall condition rating for meeting Government Accounting Standards Board 34 (GASB 34) requirements. The Cartegraph software includes the functionality for fully implementing a Pavement Management System.

Discussion

To meet objectives for implementing a Pavement Management System and the GASB 34 requirements at the same time, Public Works solicited proposals from qualified firms experienced in providing pavement management services. The Request for Proposals included services to perform a network-wide pavement assessment (pavement condition analysis) and linking the Cartegraph network map to the City's GIS Map.

Four (4) proposals were received. On May 1, 2013, a committee comprised of Project Manager, Scott Griepenstroh; Street Superintendent, Shannon Callahan; and Senior Engineering Technician, Milt Loeb evaluated the proposals based on established criteria

and selected IMS Infrastructure Management Services. An agreement was negotiated for the work to be performed at actual costs with a maximum amount of \$137,150.00.

An assessment of the entire City's pavement network is tentatively scheduled to occur in September of 2013. Other services, including updating the Cartegraph database, development of performance curves, and training for City Staff, will occur later this year. Submittal of a final report and budget recommendation for best financial, preventive maintenance strategies to sustain the target overall condition of the pavement network is anticipated to occur in January of 2014.

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

Recommendation

City Administration recommends that the Council approve the agreement with IMS Infrastructure Management Services for pavement management services, for the work to be performed at actual costs with a maximum amount of \$137,150.00.

Sample Motion

Move to approve the agreement.



Stacy Nonhof, Purchasing Agent

*Working Together for a
Better Tomorrow, Today*

**REQUEST FOR PROPOSAL
FOR
2013 PAVEMENT MANAGEMENT SERVICES**

RFP DUE DATE: March 28, 2013 at 4:00 p.m.

DEPARTMENT: Public Works

PUBLICATION DATE: March 4, 2013

NO. POTENTIAL BIDDERS: 3

SUMMARY OF PROPOSALS RECEIVED

Data Transfer Solutions
Fort Collins, CO

Applied Research Associates, Inc.
Camp Hill, PA

Dynatest Consulting, Inc.
Starke, FL

IMS Infrastructure Management Services
Tempe, AZ

cc: John Collins, Public Works Director
Mary Lou Brown, City Administrator
Stacy Nonhof, Purchasing Agent
Terry Brown, PW Engineer

Catrina DeLosh, PW Admin. Assist.
Jaye Monter, Interim Finance Director
Scott Gripenstroh, PW Project Manager

P1624

RESOLUTION 2013-219

WHEREAS, on March 4, 2013 the Engineering Division of the Public Works Department for the City of Grand Island, advertised for Request for Proposals for Consulting Services Related to 2013 Pavement Management; and

WHEREAS, on March 28, 2013 Proposals for such services were opened and evaluated by Public Works Project Manager Scott Griepenstroh, Street Superintendent Shannon Callahan, and Engineering Technician Milton Loeb based on established criteria; and

WHEREAS, the proposal submitted by IMS Infrastructure Management Services, LLC of Tempe, Arizona received the highest ranking based on the established criteria; and

WHEREAS, such work will consist of assessment of all the City's pavements, updating the Cartegraph database, development of performance curves and training for City staff; and

WHEREAS, the agreement was negotiated for the work to be performed at actual costs with a maximum amount of \$137,150.00.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the agreement with IMS Infrastructure Management Services, LLC of Tempe, Arizona for actuals costs with a maximum amount of \$137,150.00 for the 2013 Pavement Management Services is hereby approved.

BE IT FURTHER RESOLVED, that the Mayor is hereby authorized and directed to enter into such agreement on behalf of the City of Grand Island.

- - -

Adopted by the City Council of the City of Grand Island, Nebraska, July 9, 2013.

Jay Vavricek, Mayor

Attest:

RaNae Edwards, City Clerk

Approved as to Form	☐ _____
July 8, 2013	☐ City Attorney