



City of San Antonio

Agenda Memorandum

File Number:

Agenda Item Number: 5

Agenda Date: November 3, 2022

In Control: City Council A Session

DEPARTMENT: Finance Department

DEPARTMENT HEAD: Troy Elliott

COUNCIL DISTRICTS IMPACTED: Citywide

SUBJECT:

Municipal Infrastructure Asset and Operations Management System Upgrade and Enhancements

SUMMARY:

This ordinance will authorize a contract with Cartegraph Systems, Inc. to provide the City of San Antonio Public Works Department with upgrade and enhancements to the Municipal Infrastructure Asset and Operations Management System in the amount of \$2,180,398.00, beginning November 4, 2022 and ending February 23, 2026, with two additional, one-year renewal options. Funding for integration and the first year of the contract is \$495,438, of which \$297,263 is available from the FY 2023 General Fund Budget and \$198,175 is available from the FY 2023 Storm Water Operating Fund, respectively. Funding for subsequent years are contingent upon approval of future years' General Fund and Storm Water Operating Fund budget approvals.

BACKGROUND INFORMATION:

The City's Public Works Department began using Cartegraph Systems, Inc. (Cartegraph) in 2010. Since then, the Cartegraph system has allowed Public Works to build and maintain an inventory of the streets, stormwater, and traffic-related assets across the City. The current version of the software that the Public Works Department (PWD) utilizes is based on a per user licensing model. The enterprise licensing model requested through this contract will allow PWD to roll the system

out across all divisions and field teams to improve asset and work order management. The project will also build integrations between Cartegraph and COSA's 311 system and master data sources for labor, materials, equipment, and vehicles.

This contract will expand usage of Cartegraph to include work management capabilities and will provide enhancement to the primary system of record for all municipal infrastructure assets. As a result of the enhancements, PWD will be able to better catalog and track all infrastructure assets; and to prioritize, plan, capture, and report activity to maintain those assets to include:

- 4,188 center line miles of streets
- 1,402 signalized intersections
- 263 bicycle miles
- 725 bridges
- 100,000 traffic signs
- 5,427 mowing acres
- 1,500 miles storm drainage network
- 1,109 centerline miles of pavement markings

The current planned expansion project will achieve PWD's goal of building a centralized system for all work teams to schedule, assign and record work completed on the assets in their area of responsibility. Cartegraph has capability also to allow data capture in the field. With field staff using Cartegraph on mobile devices, 311 requests will be received near real-time. In addition, work is presented with visual geographic location to allow assignment to crews already working nearby.

These items are being purchased as Sole Source according to the provisions of Texas Statutes Local Government Code 252.022.07. Public Works Department began using Cartegraph in 2010 in conjunction with a contracted city-wide Pavement Condition Assessment. The Cartegraph system provides Public Works the ability to build an inventory of the streets, stormwater, and traffic-related assets across the City. The Cartograph system is also already integrated with the City's Enterprise Geographic Information System (GIS).

The initial term of the contract shall begin November 4, 2022 and continue through February 23, 2026. Two annual renewals will also be approved by this ordinance.

ISSUE:

Approval of this item will provide the City a contract to plan and support an upgrade of the Public Works Department's Municipal Infrastructure Asset and Operations Management System in order to achieve PWD's goal of building a centralized system for all work teams to schedule, assign and record work completed on the assets in their respective area of responsibility.

The contract is exempt from the Small Business Economic Development Advocacy (SBEDA) Ordinance.

This contract is an exception to the Local Preference Program.

The Veteran-Owned Small Business Preference Program does not apply to non-professional services, so no preference was applied to this contract.

ALTERNATIVES:

Should this contract not be approved, the City's Public Works Department would not be able to deploy an enterprise scale solution for a Municipal Infrastructure Asset and Operations Management System. Without an enterprise model, the Public Works Department would have to continue relying on manual processes that lack the uniformity of a single solution.

FISCAL IMPACT:

This ordinance will authorize a contract with Cartegraph Systems, Inc. to provide the City of San Antonio Public Works Department with upgrade and enhancements to the Municipal Infrastructure Asset and Operations Management System in the amount of \$2,180,398.00, beginning November 4, 2022 and ending February 23, 2026, with two additional, one-year renewal options. Funding for integration and the first year of the contract is \$495,438, of which \$297,263 is available from the FY 2023 General Fund Budget and \$198,175 is available from the FY 2023 Storm Water Operating Fund. Funding for subsequent years are contingent upon approval of future years' General Fund and Storm Water Operating Fund budget approvals.

RECOMMENDATION:

Staff recommends approval of this contract with Cartegraph Systems, Inc., to provide the City's Public Works Department with a contract for an upgrade and enhancements to the Municipal Infrastructure Asset and Operations Management System Upgrade and Enhancements for a total cost of \$2,180,398.00.

This contract is procured by means of a sole source offer and a Contracts Disclosure Form is not required.