



To: Mayor and City Council

From: Tim Tucker, City Engineer

Subject: Stormwater Geographic Information System (GIS)

Date: June 21, 2016

Recommendation

Adopt resolution authorizing the City Manager to execute an agreement for consulting services with Psomas for Stormwater Geographic Information System (GIS) Development not to exceed \$170,000, and allocation of \$30,850 of NPDES funds.

Background

The City Council has included the Storm Drain and Street System GIS project in the current Capital Improvement Program. The City is advancing its GIS program to improve information access to employees, businesses and residents. The GIS improvement efforts enhanced data management practices by verifying data quality, standardizing information presentation, and enabling the re-use of GIS data to support multiple and diverse activities.

In 2012, the City water system was converted to a GIS database that not only produced a comprehensive GIS-based map book, but also verified the precise location of water system features. This water GIS database is designed to support hydraulic modeling, capital improvement planning, and work management processes. By design, the GIS serve many business processes. Also in 2012, the City general plan data layers were updated and developed in GIS. GIS was used to produce a wide variety of maps for use as a reference and to facilitate decision making during the general plan update process.

The water and planning GIS information is available to City staff and the public through the GovClarity mapping software used at the public counter and various staff workstations. Through GovClarity, the location of water lines, fire hydrants, zoning, land use, hazards, trails, etc. are immediately identifiable to inform staff and citizens about land use and development decisions. The public also has access to many planning layers through the City's web site on the Community View Maps platform.

Discussion

The City is continuing to advance its use of GIS. The City received a proposal from PSOMAS to create a Storm Drain and Street System GIS layer. The proposal also includes the enhancement and update of the Water System GIS. The City advertised for Statements of Qualifications (SOQs) for design and project management services. On September 16, 2015 the City Council approved the Engineering Contract Services Consultant List which includes PSOMAS. PSOMAS was determined to have expertise in Civil (water), GIS and water modeling areas of engineering.

PSOMAS proposal presents a project plan that includes a variety of key services that build on prior GIS system investments. These services include:

- Implementation of the stormwater system in GIS to support clean water management and storm drain maintenance,
- Further progression with design drawing document scanning to preserve these important records and improve access,
- Implementation of GIS based tools for water system shut down

The project is scheduled to be completed by the Spring 2017.

Fiscal Impact

The City Council has included the Storm Drain and Street System GIS project in the current Capital Improvement Program. Additional funds are required to complete the project.

BUDGET

Consultant Services	\$170,000
Project Management (Staff)	\$ 20,000
Equipment	<u>\$ 700</u>
	\$190,700

FUNDING

Current Available Funds	
FY 2015/16 CIP	\$125,000
C7030 Water GIS	\$ 34,850
Additional Funds Needed:	
NPDES	<u>\$ 30,850</u>
	\$190,700

Attachment

- Resolution

APPROVED BY:



Brad Kilger, City Manager

RESOLUTION NO. -16

AUTHORIZING THE CITY MANAGER TO EXECUTE AN AGREEMENT FOR CONSULTING SERVICES WITH PSOMAS FOR STORMWATER GEOGRAPHIC INFORMATION SYSTEM (GIS) DEVELOPMENT NOT TO EXCEED \$170,000, AND ALLOCATION OF \$30,850 OF NPDES FUNDS

WHEREAS, the City of Martinez has completed the conversion of the City water system and general plan information to a GIS database, which is available to the City staff through the GovClarity mapping software; and

WHEREAS, the completed water and planning GIS database was developed with the consulting services of PSOMAS, and funded with Water bond funds for Water System GIS (C7030); and

WHEREAS, the City needs to advance the use GIS to its Storm Drain and Street system; and

WHEREAS, it is also necessary to enhance and update the Water System GIS; and

WHEREAS, it is necessary to retain PSOMAS to provide the expertise to develop the Storm Drain and Street System GIS; and

NOW THEREFORE, IT BE RESOLVED by the City Council of the City of Martinez, that the City Manager is authorized to execute an agreement for consultant services with PSOMAS for Storm Drain and Street System GIS Development subject to review of the agreement by the City Attorney.

BE IT FURTHER RESOLVED by the City Council of the City of Martinez, that \$30,850 of NPDES funds are allocated for the Stormwater Geographic Information System Project.

* * * * *

I HEREBY CERTIFY the foregoing is a true and correct copy of a resolution duly adopted by the City Council of the City of Martinez at a Regular Meeting of said Council held on the 6th day of July, 2016, by the following vote:

AYES:

NOES:

ABSENT:

RICHARD G. HERNANDEZ, CITY CLERK
CITY OF MARTINEZ