



Office of the City Manager

CONSENT CALENDAR  
November 19, 2024

To: Honorable Mayor and Members of the City Council  
From: Paul Buddenhagen, City Manager  
Submitted by: Kevin Fong, Director, Information Technology  
Subject: Contract No. 112798-1 Amendment: Geographic Technologies Group for Geographic Information System (GIS) Strategic Workplan

RECOMMENDATION

Adopt a Resolution authorizing the City Manager to amend Contract No. 112798-1 with Geographic Technologies Group (GTG) for Geographic Information System (GIS) professional services, for a total not to exceed \$50,000 and for a total contract value of \$549,411 from September 14, 2016 to June 30, 2026.

FISCAL IMPACTS OF RECOMMENDATION

One-time funding for this project in the amount of, \$50,000 is available in the Department of Information Technology's FY25 IT Cost Allocation Fund, #680.

\$50,000	FY 2025: 680-35-377-6002-000-472-612990 (IT Cost Allocation, GIS, IT Professional Services)
<b>\$50,000</b>	<b>Total FY 2025 Professional Services</b>

CURRENT SITUATION AND ITS EFFECTS

The City's Graphical Information Systems (GIS) plays a vital role in the City's day to day operations. GIS enables staff to view information in a map-based format to perform analysis, identify trends, and make informed decisions that improve service delivery to the community. The usage of these systems spans across nearly all departments including Public Safety (Police and Fire), Public Works, and Planning departments.

The [2017 GIS Master Plan](#) was produced with the expectation that the entire plan be redone in totality every five years (§3.0, pg 390), which is now overdue. The City requires additional spending authority to develop a new comprehensive two-year strategic GIS work plan to review and expand upon the [2017 GIS Master Plan](#), assessing the City's current GIS capabilities, benchmarking its GIS maturity level, identifying gaps, and providing a detailed, step-by-step action plan to guide the City's development over the next two years.

This effort aligns with the City's strategic goal to be a customer-focused organization that provides excellent, timely, easily-accessible service and information to the community.

### BACKGROUND

In May 2016, the City issued a Request for Proposals (RFP) for a Geographical Information Systems (GIS) Master Plan under Specification No.16-11041-C. Of the nine responses, Geographic Technology Group (GTG) best met the City's operational, technology, and fiscal requirements.

The GIS Master Plan development and planning process was a citywide effort involving key staff representing many departments. GTG conducted surveys, interviews and onsite workshops with city staff to do an assessment and analysis of the City's current Enterprise GIS. GTG evaluated the readiness of existing system infrastructure (hardware, software, and network) to support enterprise GIS and maintain service during disasters, assessed parcels and address data sets to meet GIS business needs and Enterprise authoritative source requirements, and developed a governance plan that outlines the administration, maintenance, and support for the enterprise GIS. This effort resulted in the 2017 [GIS Master plan](#).

### ENVIRONMENTAL SUSTAINABILITY AND CLIMATE IMPACTS

This project will move the City forward in attaining its goals of becoming a viable environmentally sustainable city. GIS information optimizes efficiency, reduces operational costs and promotes reduction in fossil fuel consumption. For example, Public Works using GIS to optimize waste collection throughout the City. These technologies align with the city's goal to reduce greenhouse gas emissions by 2050 to 80% below 2000 levels per Climate Action Plan goals.

In addition, Geographic Technologies Group will conduct all of their work remotely, saving both travel costs and greenhouse gas emissions related to travel.

### RATIONALE FOR RECOMMENDATION

Geographic Technologies Group is well versed in the requirements for public sector GIS. GTG has created and implemented over 200 comprehensive GIS Master Plans for local government. Other clients include the California cities of Concord, Pasadena, West Sacramento, West Hollywood and Roseville.

GTG created a detailed GIS Master Plan in 2017 which provided the City with a 5-year strategy, direction, and workplan which the City successfully completed. The City wants to partner with GTG again to review the City's current status, identify where the industry is currently headed and how the City can take advantage of the new tools, and develop a detailed two-year workplan.

GIS technologies are powerful tools for improving the quality, accuracy, efficiency, and responsiveness of government services provided by the City of Berkeley. An Enterprise GIS guides a citywide approach to GIS, focused on:

- Using mutually accepted standards, policies, and business practices;
- Encouraging collaborative GIS efforts among City, government, and related organizations;
- Integrating GIS technologies into City business operations;
- Supporting emergency and disaster planning, response, and recovery; and
- Maximizing the cost-effectiveness of GIS investments.

The GIS Steering Committee established the Enterprise GIS Program in 2008 and provides central shared resources to support these goals. The program currently includes the following GIS services: Data Services, Online Mapping Services, Applications, Software License Management, and Training and Support.

#### ALTERNATIVE ACTIONS CONSIDERED

Staff considered building this plan without GTG, however staff believes it would be beneficial to get an outside perspective and expertise that could bring with them industry best practices and experience working with other local municipalities to help build upon the framework that the City can use for the next two years and beyond.

#### CONTACT PERSON

Kevin Fong, Director, Information Technology, 510-981-6541

#### Attachments:

1: Resolution

RESOLUTION NO. ##,###-N.S.

CONTRACT NO. 112798-2 AMENDMENT:  
GEOGRAPHIC TECHNOLOGIES GROUP FOR GIS PROFESSIONAL SERVICES

WHEREAS, on May 12, 2016, the City issued a Request for Proposals (RFP) for a Geographical Information Systems (GIS) Master Plan (Specification No.16-11041-C) and received nine qualifying vendor responses; and

WHEREAS, the RFP review committee evaluated each proposal and determined that the Geographic Technologies Group proposal best met the City's operational, technological, and fiscal requirements; and

WHEREAS, on November 02, 2016, the original contract was signed to develop a GIS Master Plan; and

WHEREAS, on September 08, 2017, the original contract was amended to include additional tasks to conduct a comprehensive GIS data assessment, deploy a web-based public facing GIS portal, develop GIS policies and SOPs for the City, and establish a one-year GIS work plan; and

WHEREAS, on September 10, 2019 the contract was amended to add two additional projects to enhance the functionality of recently deployed GIS Community portal, and a comprehensive inventory of the City of Berkeley's parks system to prepare for upcoming work order; and

WHEREAS, on August 3, 2020, the contract was amended to add two additional projects to digitize Park boundaries and land use and to set up a web and dashboard applications for City of Berkeley GreenCity GIS software; and

WHEREAS, on November 30, 2021, the contract was amended to add three additional projects to implement the Berkeley Parcel Condition Widget, ArcGIS Hub, and Crime Mapping solution; and

WHEREAS, the 2017 GIS Master Plan, §3.0 "GIS SUSTAINABILITY" recommends the entire plan should be redone in totality every five years; and

WHEREAS, funding for this project in the amount of, \$50,000 is available in the Department of Information Technology's Fiscal Year FY 2025 Cost Allocation fund.

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the City Manager is authorized to execute a contract amendment with Geographic Technologies Group (GTG) for Geographic Information System (GIS) professional services, for a total not to exceed \$50,000 and for a total contract value of \$549,411 from September 14, 2016 to June 30, 2026