



# Request for Proposal

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GIS SYSTEM ARCHITECTURE REVIEW AND SERVER  
REBUILD

CITY OF NEWARK OHIO | 40 W MAIN STREET, NEWARK, OH

## Purpose of Request:

The City of Newark is requesting GIS Services to evaluate, rebuild, and repair our Enterprise GIS Architecture. Simultaneously, the City's GIS Servers and Software Architecture need evaluated for adherence to industry best practices and to provide a plan for further development. The city seeks a highly qualified vendor with extensive experience in the ArcGIS Product Suite, in particular, ArcGIS Enterprise 10.X and 11.X.

## Scope of Work:

1. Architecture Review
  - Review City GIS Architecture for compliance with GIS, IT, and cybersecurity industry standards
  - Provide recommendations for optimizing the City GIS Architecture for performance and cost.
  - Provide recommendations for future expansion of the City GIS Architecture.
  - Evaluate the test environment to ensure City GIS Staff will be able to develop new applications in the test before porting to the production environment.
  - Provide availability and pricing structure to implement recommended architecture improvements.
2. Server Rebuild
  - Provide a deployment of ArcGIS Enterprise 11.1 or 11.3 (the exact version will be decided in consultation with the chosen vendor) with the following components.
    - Web Adaptor
    - Data Store
    - Server
    - Portal
    - Additionally, the following applications should be installed and working.
      - ArcGIS Solutions (Enterprise)
      - ArcGIS Insights (Enterprise)
  - Transfer all current production services and data from the existing server to the new server
  - Provide deployment of ArcGIS Monitor on a separate server
  - Provide a Test Server cloned from the production server residing in the test environment.
3. Knowledge Transfer and Support
  - Provide the City with all necessary documentation to operate and maintain the system.
  - Provide City GIS Staff with all documentation necessary to maintain the system in day-to-day operation and troubleshoot small issues.
  - Provide a quote for ongoing support and assistance on an as-needed basis.

## Goals and Priorities after Project Completion:

1. The City GIS Architecture complies with all applicable GIS and IT Industry best practices.
2. The City GIS Architecture is optimized at the hardware level for a balance of price to performance.

3. To contract with an ESRI Business Partner for additional GIS support on an as-needed basis. This could include but not be limited to enterprise support, application development, extending the ArcGIS Enterprise system with plugins and scripts, and consulting on future plans.

### Requirements:

- The vendor shall be a certified ESRI Partner
- The vendor shall have documented experience designing and implementing server environments for cloud-hosted solutions, experience implementing ESRI enterprise GIS solutions for local government agencies, and provide references.
- The vendor shall not subcontract the development of the enterprise environment.
- The vendor can provide knowledge transfer to the City GIS Staff to allow for the independent management of City GIS Architecture after a set time.

### Selection Criteria:

- Ability to Perform Required Services and Provide Required Solution – The City will consider all relevant material submitted by each vendor, and other relevant material it may otherwise obtain, to determine whether the vendor is capable and has a history of successfully completing similar projects of this scope.
- References
- Pricing
- Interviews
- Vendors Ability to Meet Project Deadline

### Timeline:

The city will work with the chosen vendor to set a firm timetable. An estimated Ideal timeframe is presented below.

Selection – Middle of June 2024

Server Rebuild Complete no later than mid-September 2024

Architecture Review Complete no later than the end of September 2024

Documentation Transfer Complete no later than December 2024

### Submission:

All proposals should be emailed in PDF form to [gis@newarkohio.net](mailto:gis@newarkohio.net) no later than May 31<sup>st</sup>, 2024.

Any questions or clarifications can be sent to the same email address.

### Existing Infrastructure:

ArcGIS 10.9.1 Enterprise Server Single Machine Deployment

- ArcGIS Server
  - ~23 Branch Versioned Edit Services

- ~23 Public View Services
- 14 Imagery Services
- 1 Imagery Data Store
- Portal for ArcGIS
- Datastore – Not Working

ArcGIS Monitor Server

2 ArcSDE Databases and the Database Server (SQL Server)

- UtilityGIS
  - Holds all utility feature data
- NewarkGIS
  - Holds all non-utility data

Appendices: Existing High-Level System Diagram

