

## Project Spotlight

### J&A is Proud to Provide GIS & Database Services to Genesee County Drain Commissioner Water & Waste Services

J&A was recently awarded a contract with the Genesee County Drain Commissioner Water & Waste Services (GCDC-WWS) to provide GIS and database services. These services include:

- Integration of water meter and billing REU data for hydraulic sewer modeling;
- Integration of sewer flow metering data into the geodatabase sewer and hydraulic model;
- Integration of sewer CCTV inspection and condition data into the GIS database for review and retrieval by staff;
- Writing specifications to outline data and format requirements for third party contractors performing CCTV inspection and rating work under NASSCO standards to streamline the integration of data into the GIS geodatabase;
- Review of Cityworks current customer service and work order template structure to streamline use and to incorporate enhancements based on feedback from staff; and
- Review of current Cityworks mobile technology methodology and to implement improvements to streamline use whether users have a live connection to the central application or not.

Tasks also reviewed as part of this project include: security, data entry, and QA/QC review by the Supervisor to close the work order, creation, and closing of work orders.

As part of this effort, J&A will integrate over 200 CCTV inspection and pipeline scoring projects into the County's ESRI geodatabase for quick retrieval and analysis using our data incorporation and query tool. J&A has developed a powerful and cost effective application using ESRI's ModelBuilder tool, which is part of ArcMap, resulting in no additional software costs. The application facilitates the incorporation of CCTV inspection records and video from PACP and NASSCO scoring databases. In addition to this, the estimated and actual rehabilitation cost information for a pipe can be directly incorporated into the ESRI GIS geodatabase.

The application also includes basic navigation tools for easy viewing and analysis in GIS as well as the capability to snap sewer leads to their PACP inspection data coordinates. Our solution leverages their investment in the ESRI geodatabase while also providing a cost effective viewing and analysis capability using their existing ESRI licenses without having to buy additional software licenses and additional development costs.

For more information on this initiative and how we can assist you, please contact Terry Biederman, P.E. at: (248) 681-7800; [tbiederman@ja-engr.com](mailto:tbiederman@ja-engr.com).



*Analysis of pipe defects and laterals form data integration within GIS*

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Contact us today to find out how we can assist you.

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