



Butler County Transportation Improvement District Right of Way GIS Database and Web App

Project Highlights:

- RA Consultants provided data management services
- Developed web based application and web processing tools

Services Provided

- Base mapping & GIS
- GIS Database Design & Management
- Data analysis
- Web Development

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As part of a large roadway project taking place in the City of Hamilton, the Butler County Transportation Improvement District needed a mechanism to track right of way acquisition. In order to reduce time and duplication of efforts, RA Consultants will create a GIS database and a customized web application utilizing ESRI software. This will streamline the right of way operations for the project and give all staff an easy way to view how the project is progressing.

All existing GIS data, parcel records, and site photos will be linked and stored in an ESRI SDE GeoDatabase format. The created web map can be accessed with an internet connection and a login and password assists in giving access to personnel anytime of the day. The login and password format will make it possible to give some access to the public if desired. A new GIS dataset of Project Parcels will be queried out of the Butler County parcel data and created to store all project specific data. All project parcel data changes are logged with a time and date stamp along with the name of the editor inside of the SDE database. Data such as communications with the property owner, assessed value, and mailing address are stored directly in the database. Executed documents such as property contracts, and appraisals are attached to the database and can be done so by the editor within the web map application.

The web application was developed in the JavaScript API and ArcGIS Online connects to a customized SQL database that relates to the SDE GeoDatabase. The data will also be made accessible by utilizing the ArcGIS online mobile application, which will work on Apple and Android products. Programming languages included in the design of the application is a combination of python script; JavaScript API for ArcGIS server, VB, Java and HTML. Upon project completion, the final GIS project parcel dataset will be delivered on a DVD for archiving and future use.