



Session 786:

Public Works Simplified: GIS Applications for Public Works

Accessing engineering drawings in ArcGIS

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Project background

- 15 years dream
- The **chicken or the egg** causality dilemma
- Document management system promise
- Small silo of scanned documents (6672 drawings)
- Resources

Problem solved

Easy access to all engineering drawings in any given area of the city

- Initial purpose:
 - digitizing all assets in water, sanitary and storm SDE layers;
- Secondary purpose:
 - easy retrieval of drawings by internal staff.

Results

- Increased speed for data creation
- Increased confidence in accuracy of attributes
- Eliminating the space needed for the drawing cabinets
- Improved tracking of As-Constructed drawing release from consultants
- A Web based application for those that do not have access to ArcGIS

Efficiencies

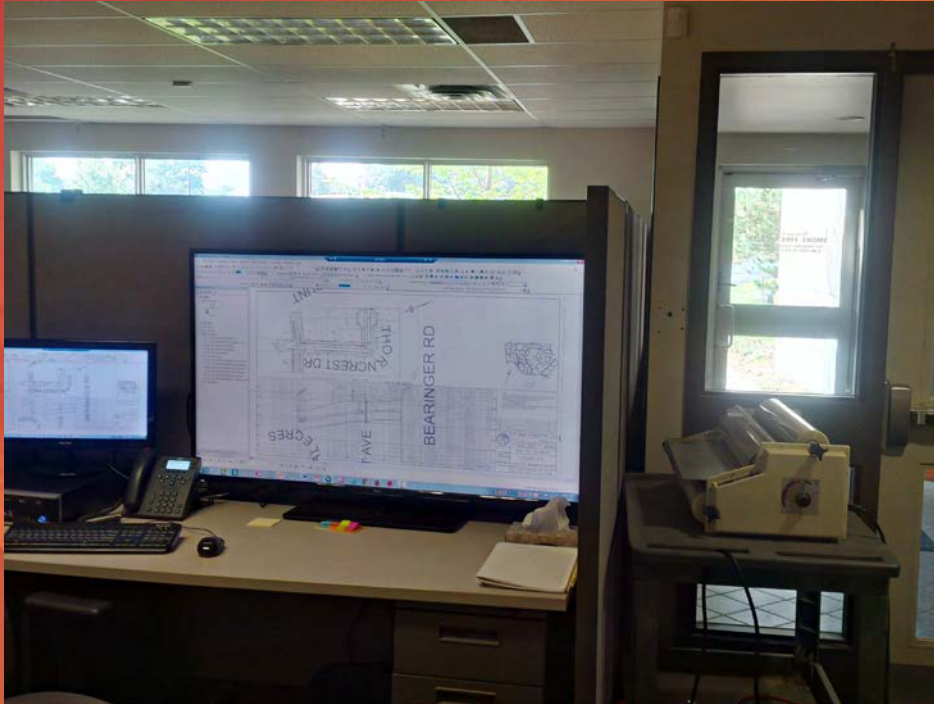
- **Space for about four office cubicles;**
- **Staff's travel time and gas to retrieve a drawing;**
- **Paper and ink if they look at a digital drawing instead of printing;**
- **Cuts at least in half the time to draw new features and populate the attributes.**
- **Savings based on the lines above would be between \$20,000 to \$50,000**

Success

Spread the word

Informative sessions delivered to various divisions

Maintenance process



How to videos

Python tool