A Need for Instant Access & Sharing

Mark Grabowski, ITpipes

Erik Ray, Spotsylvania County Community Operations

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Introduction

Mark Grabowski

Business Development Manager, ITpipes

Milwaukee, WI

Erik Ray

Division Director – Technical Services, Spotsylvania County Community Operations

Fredericksburg, VA

About ITpipes & Esri

Celebrating 25 Years

itpipes™

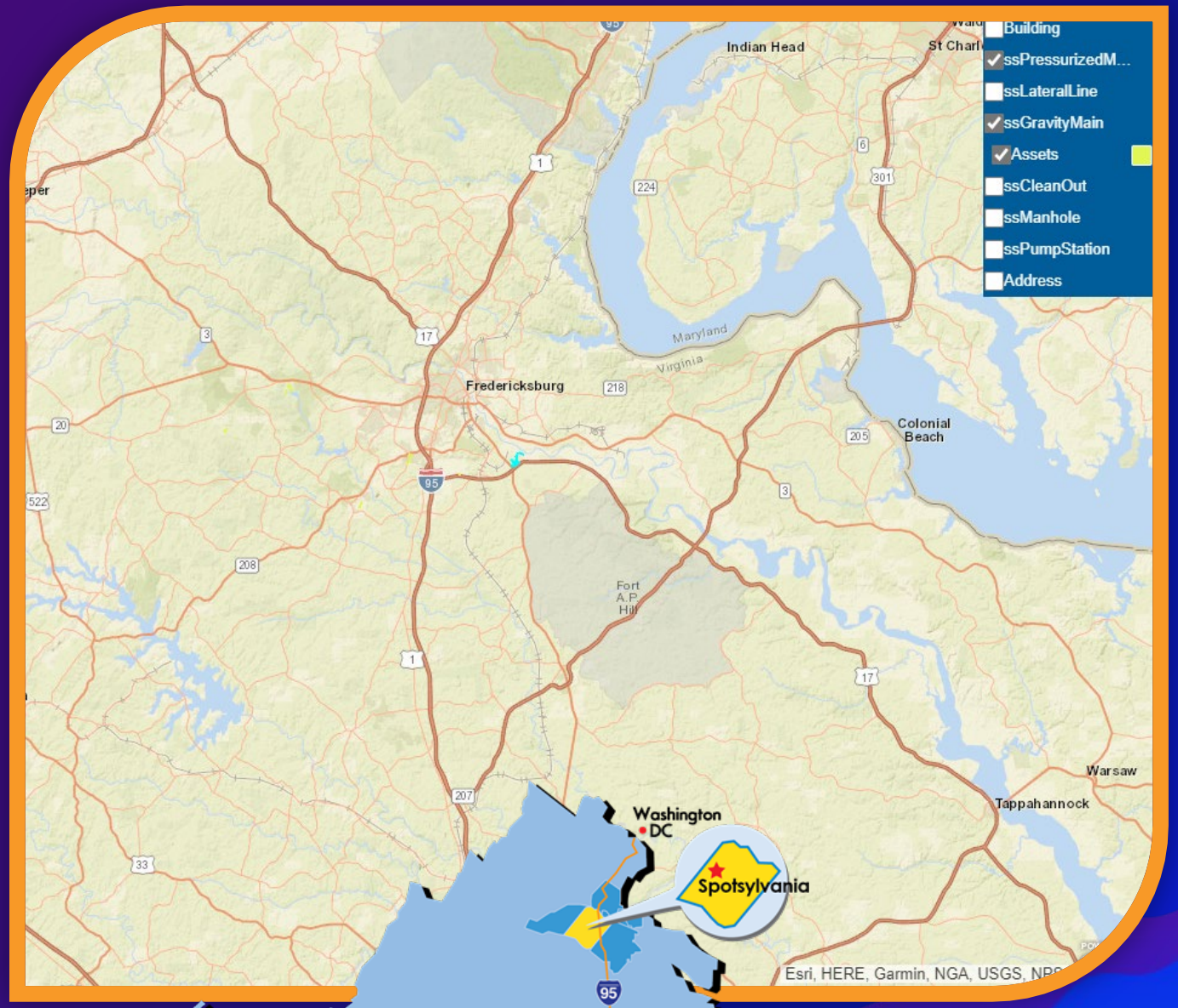
esri Partner Network
Silver

esri Release Ready
Specialty

esri ArcGIS Marketplace
Provider

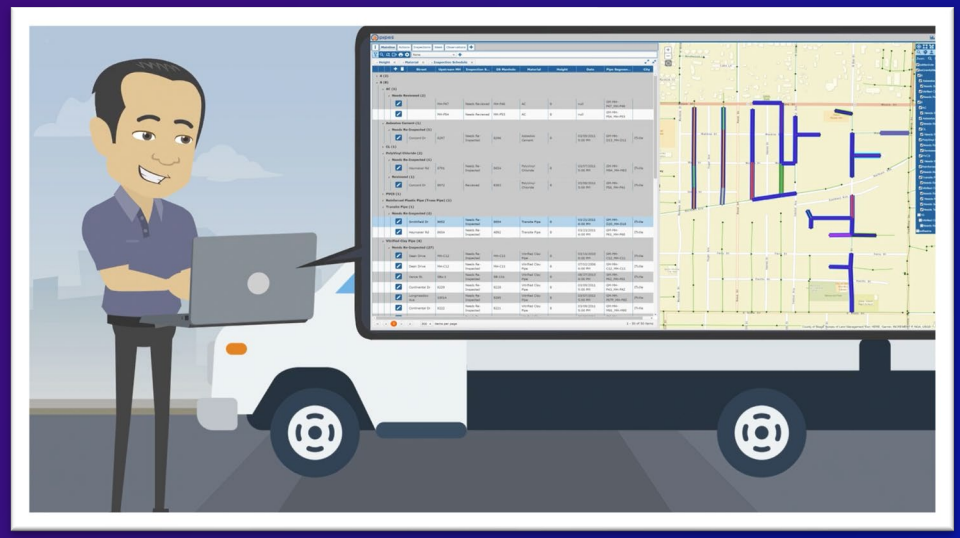
About Spotsylvania

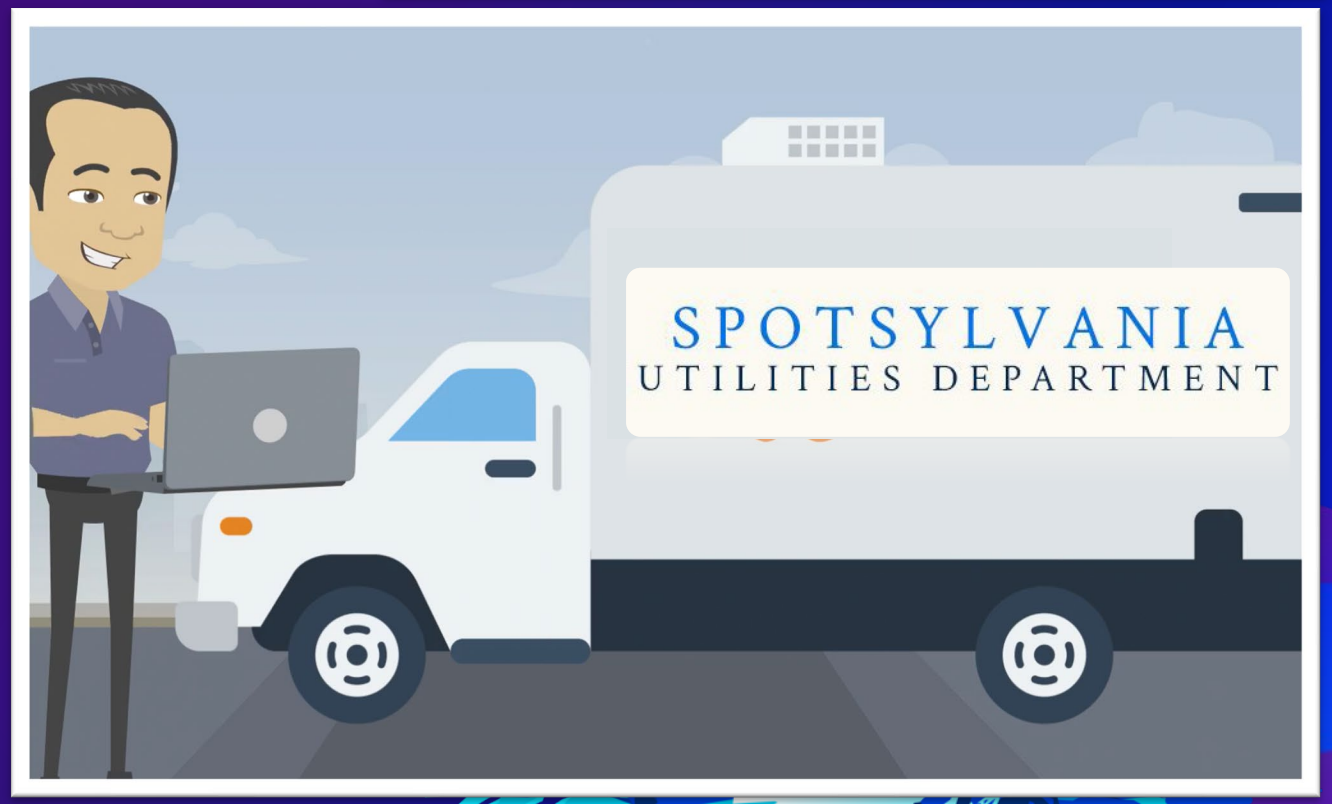
- Located about midway between Washington DC and Richmond, VA
- 547 Miles of Sanitary Sewer
- 48 Lift Stations
- 13,700 Manholes
- 34,000 Citizens Served

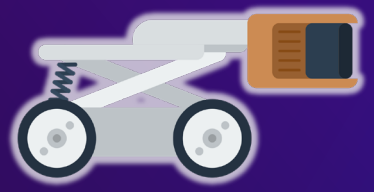


How Spotsylvania Utilizes ITpipes

- Schedule Pipe Inspections
- Track Pipe Inspection Progress
- Meet Compliance Requirements
- Sewer Overflow Response
- Pipe Rehab Planning
- Pre / Post Inspection







How Spotsylvania's Data Gets Used

- ITpipes Inspection View launches from Web maps & Cityworks
  - Allows multiple users to access asset information
- Determine problematic pipes / "hot spots"
  - Dispatch work orders for post-inspection work (root cutting, lining, etc.)
  - Follow up with inspection
- Prioritize Pipeline Planning
  - Inspection of pipe
  - Rehab or Replacement
  - Post Inspection after work completed
- With Cityworks, tracks works orders & maintains budgets

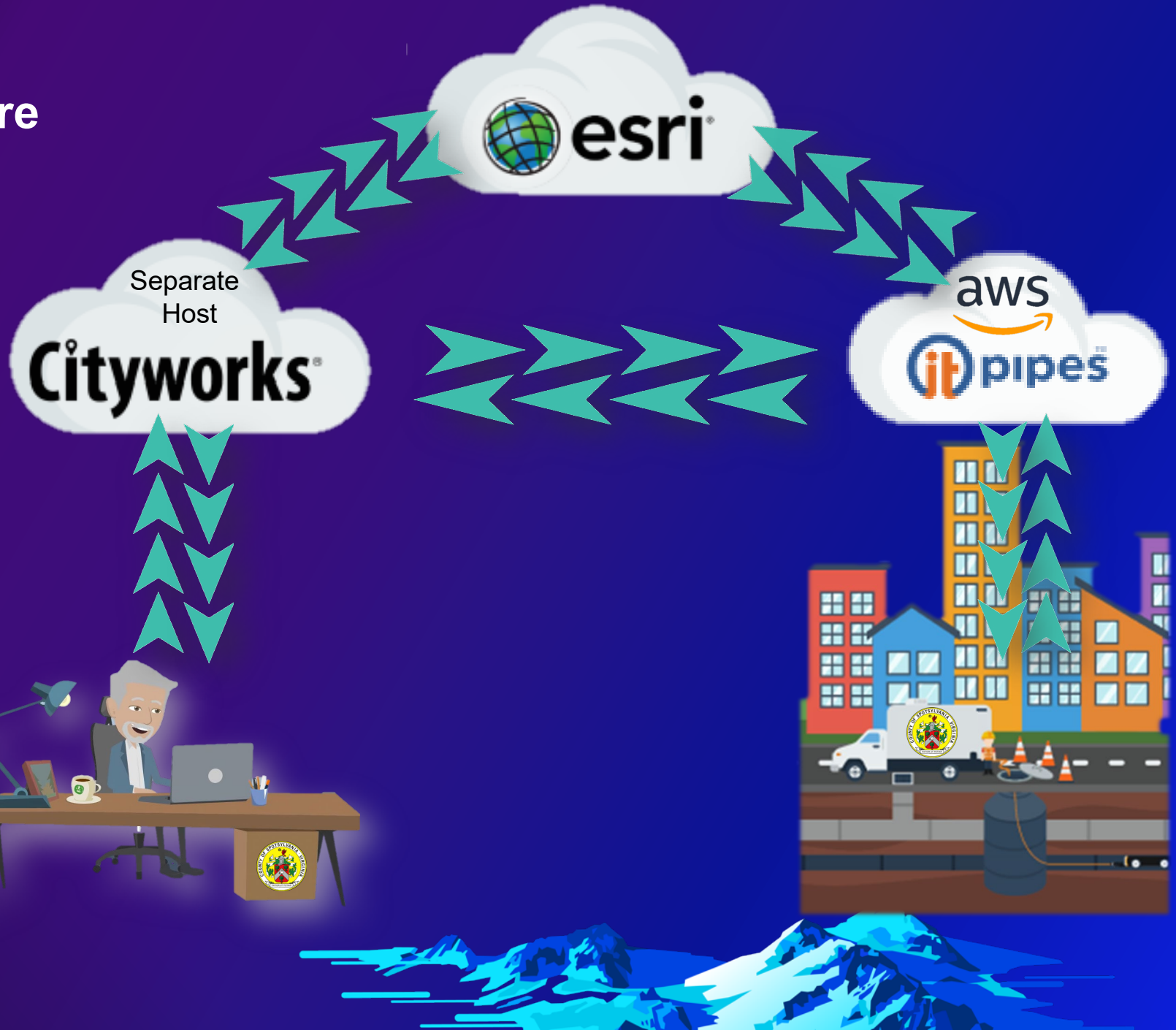
ITpipes + Esri + Cityworks

- Implementations
  - Esri – 1998
  - ITpipes – 2010
  - Cityworks – 2016

- All Utilizations Listed Previously, plus
  - Pre-Acceptance

Unique Cloud Architecture

- Sync from field for immediate inspection data sharing
  - Partial sync
  - Full Sync

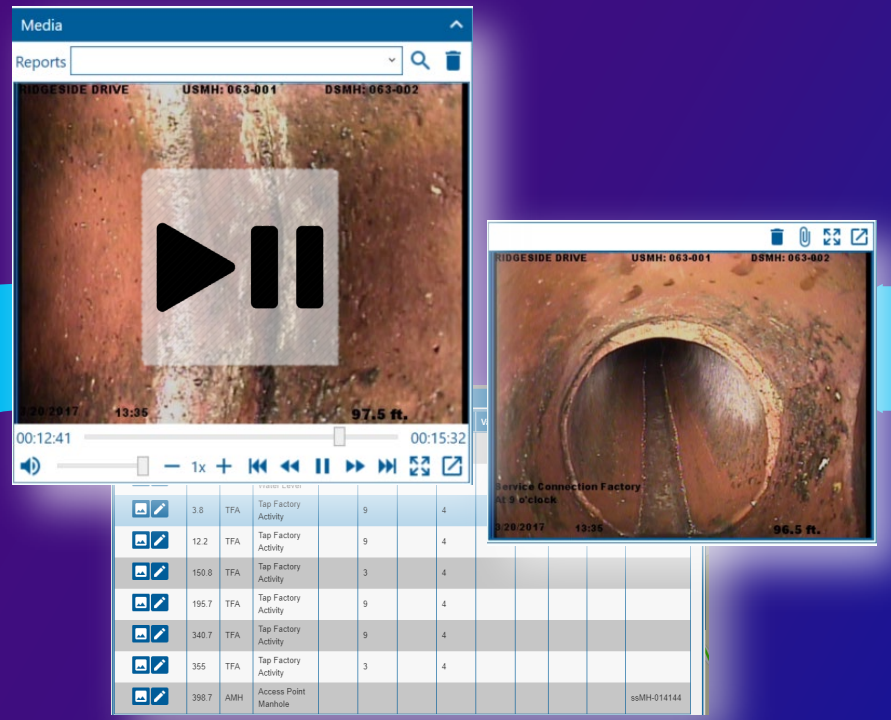


In-Field Sync -Partial

- Snapshots
- Observations

In-Field Sync - Full

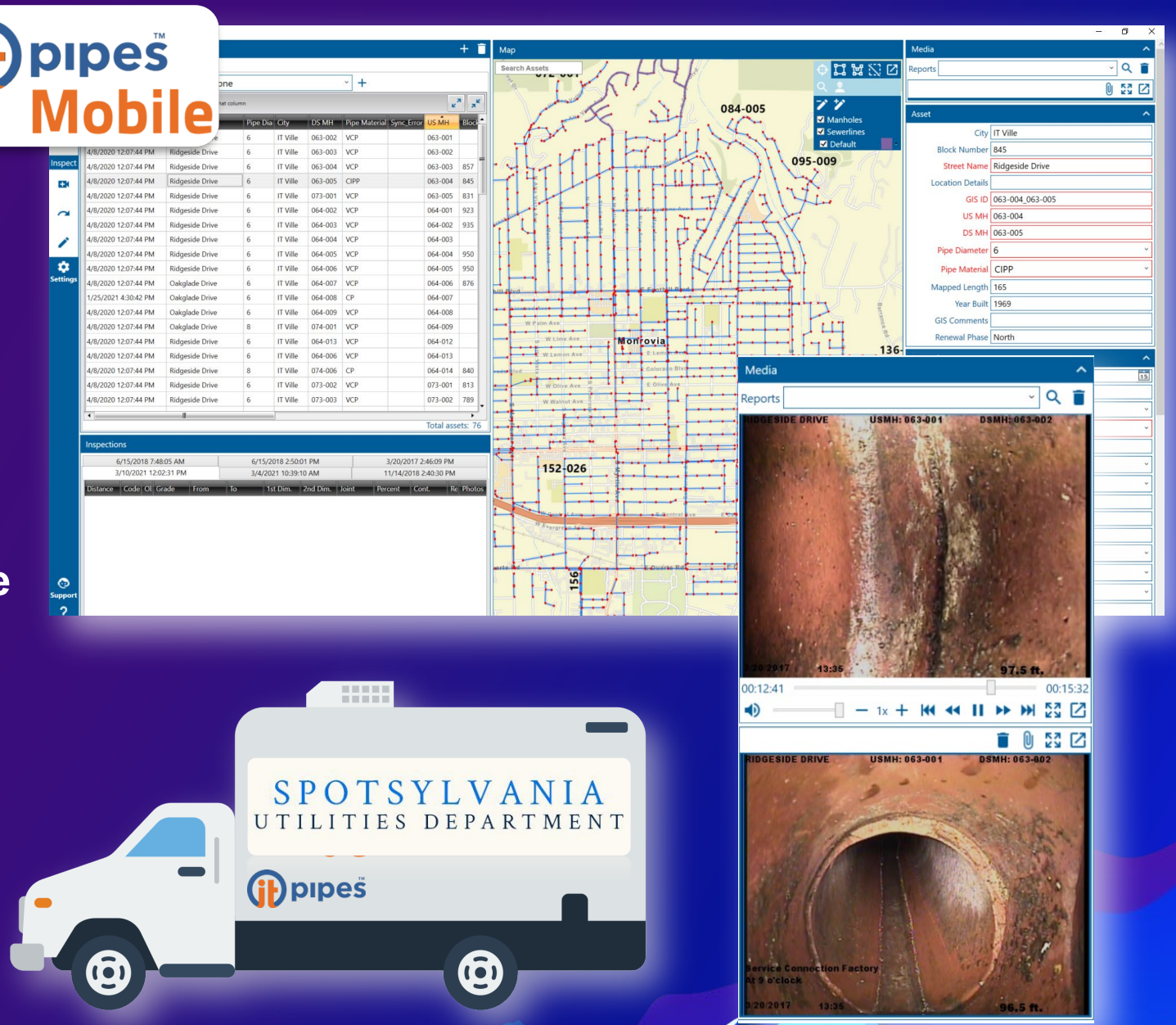
- Snapshots
- Observations
- Video



Early Warning System

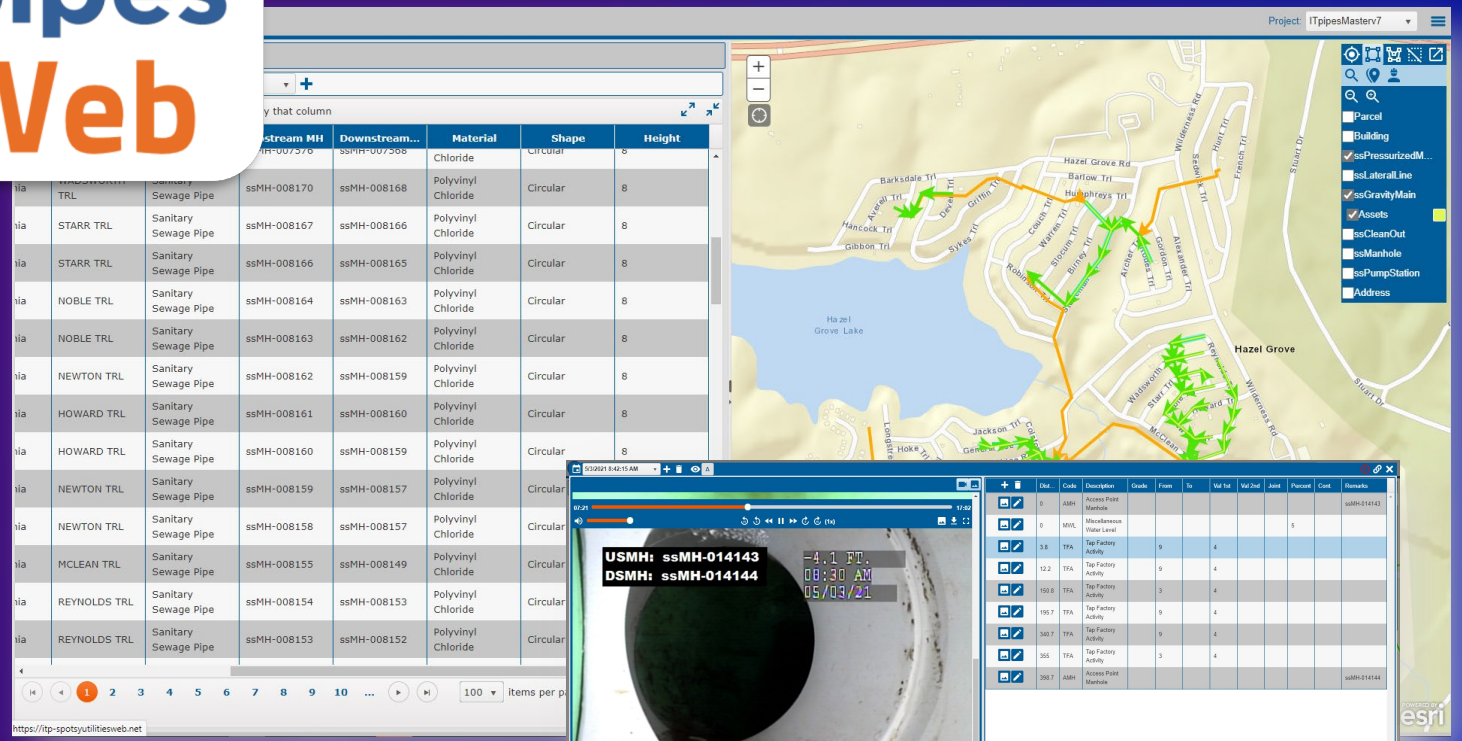
ITpipes Mobile

- Collects field data
- Integrated Esri map
- Expedites Inspections
  - Asset Data is Auto Populated
- “Hardware Agnostic” - Compatible with most camera manufacturers
- NASSCO Compliant

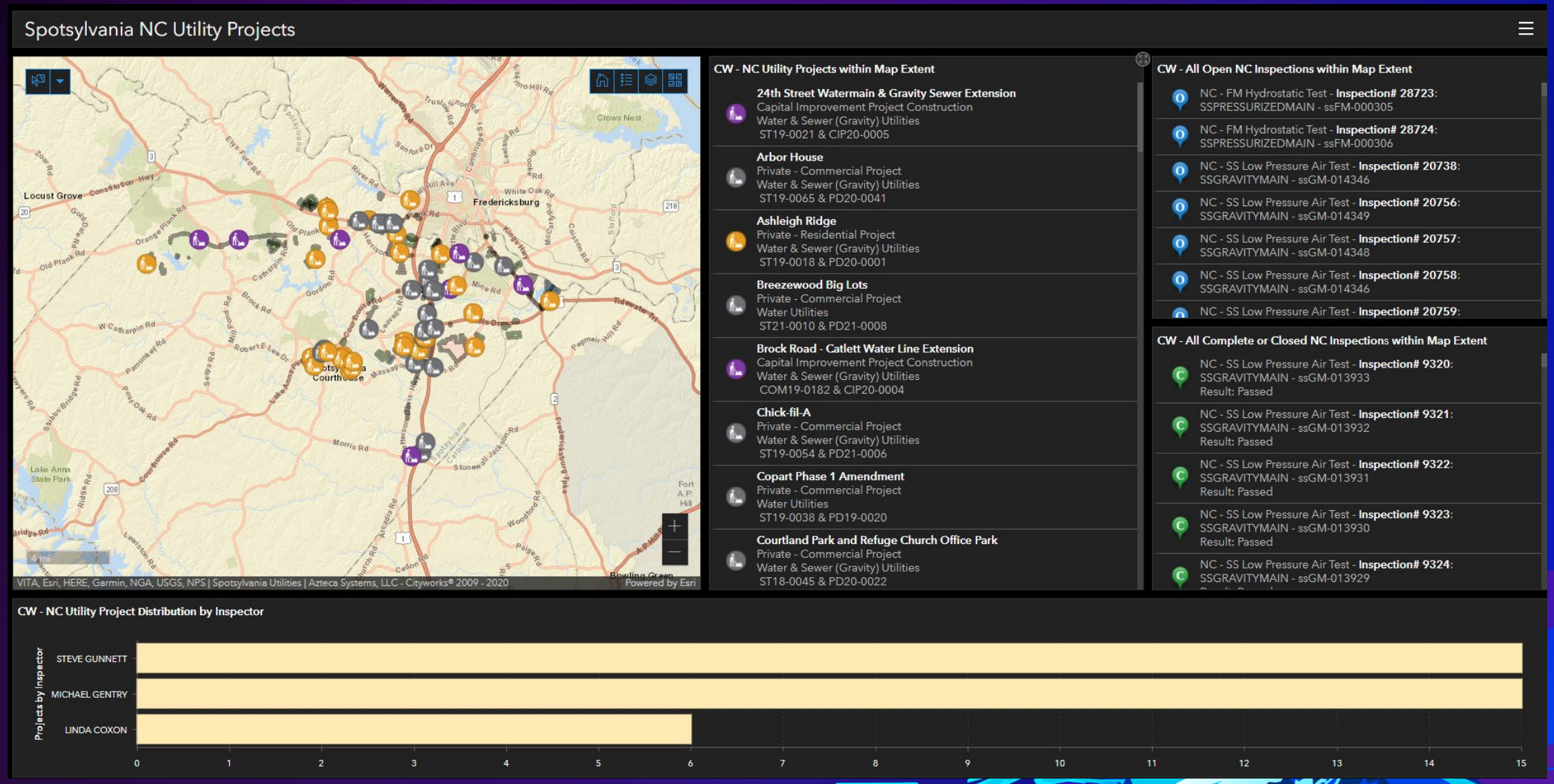


ITpipes Web

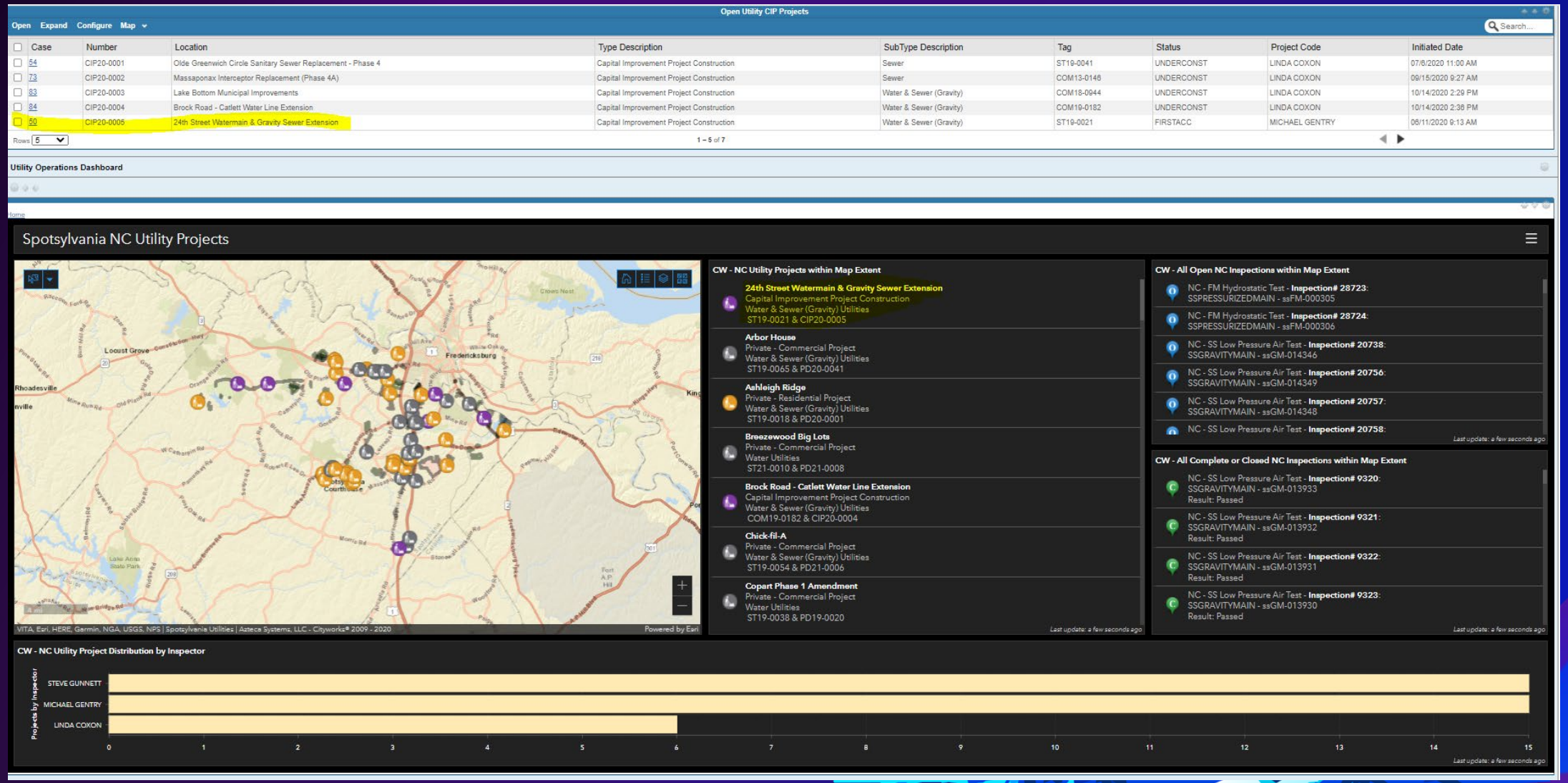
- Drill-down filtering
- SmartTabs
- Automatic Syncing
- Instant Reports
- Access from anywhere



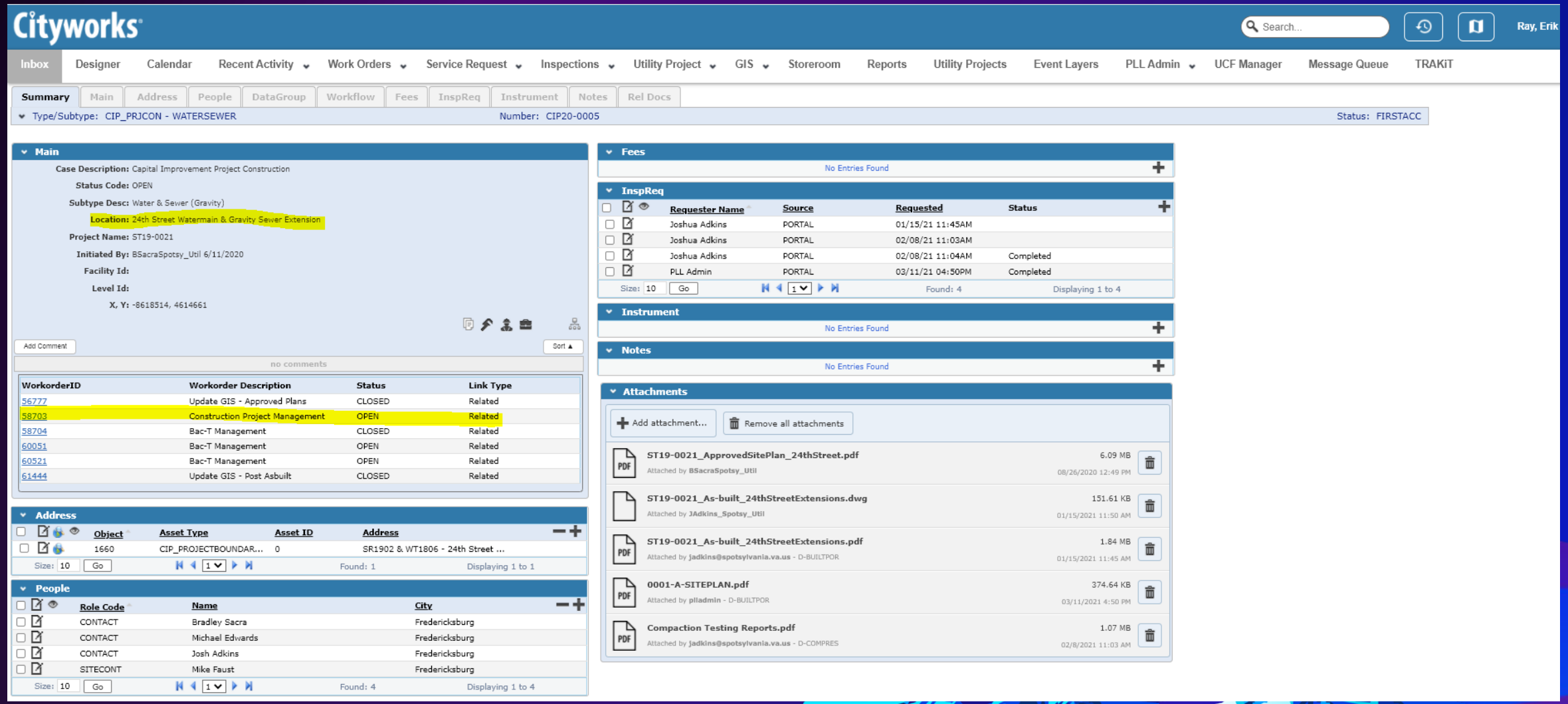
Spotsylvania's Esri Dashboard



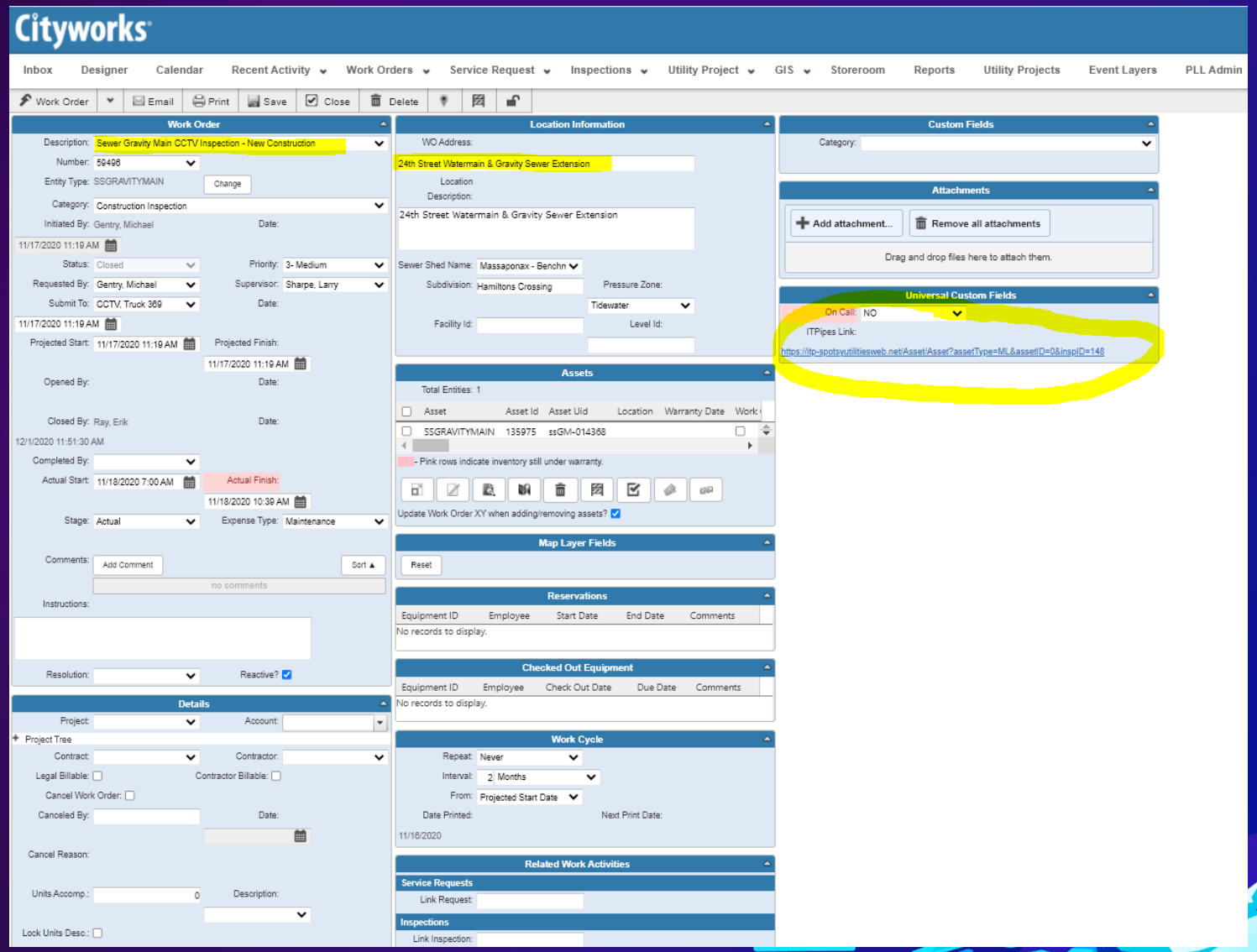
Spotsylvania's Cityworks Dashboard



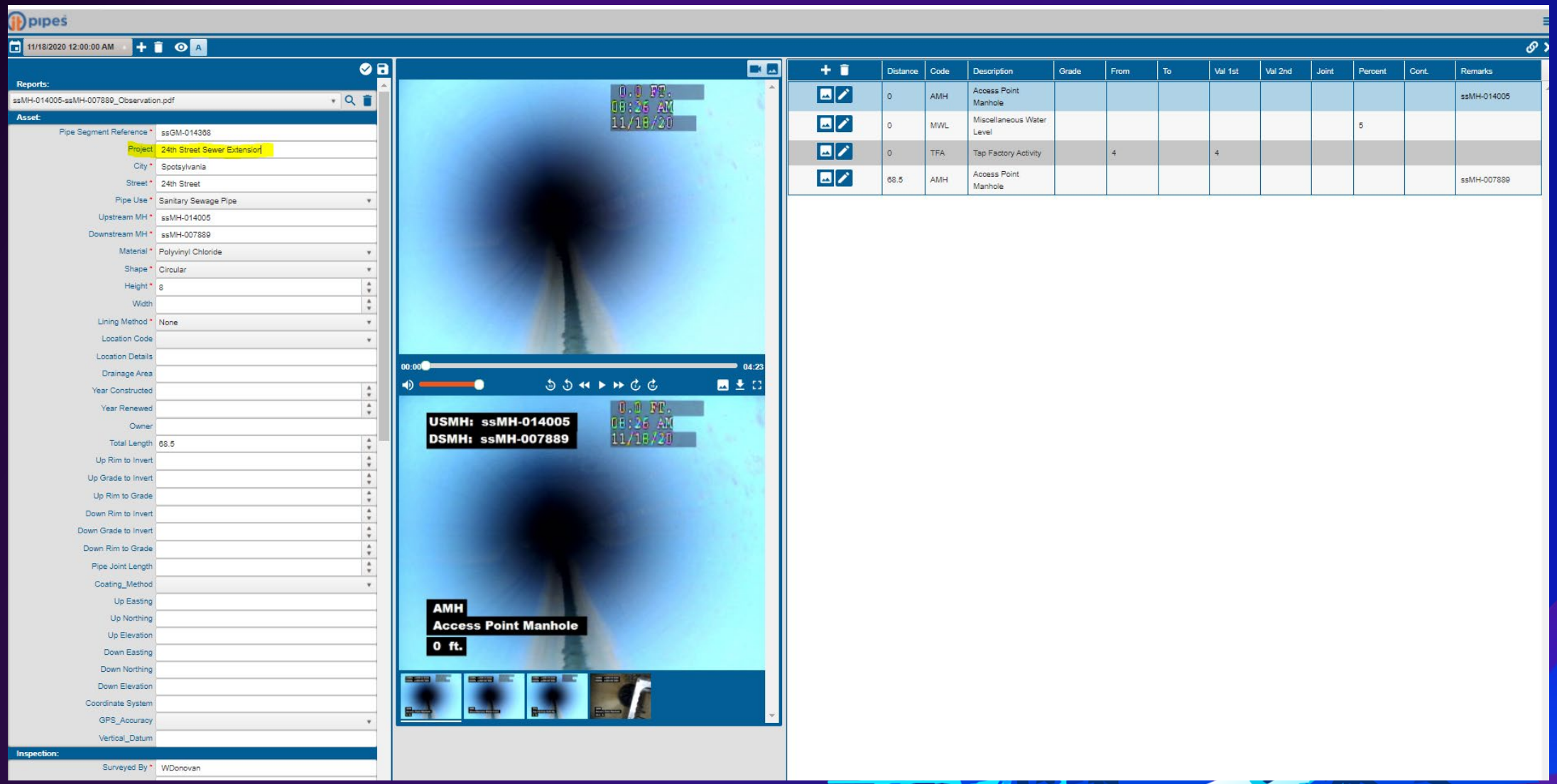
Spotsylvania's Cityworks PLL (Permits, Licensing, and Land)



Spotsylvania's CCTV Work Order



Cityworks to ITpipes



Recent Scenario – New Pipe Installation Issue

Asset Viewer

Attributes | Work History | Relationships

Work Orders - 4 found

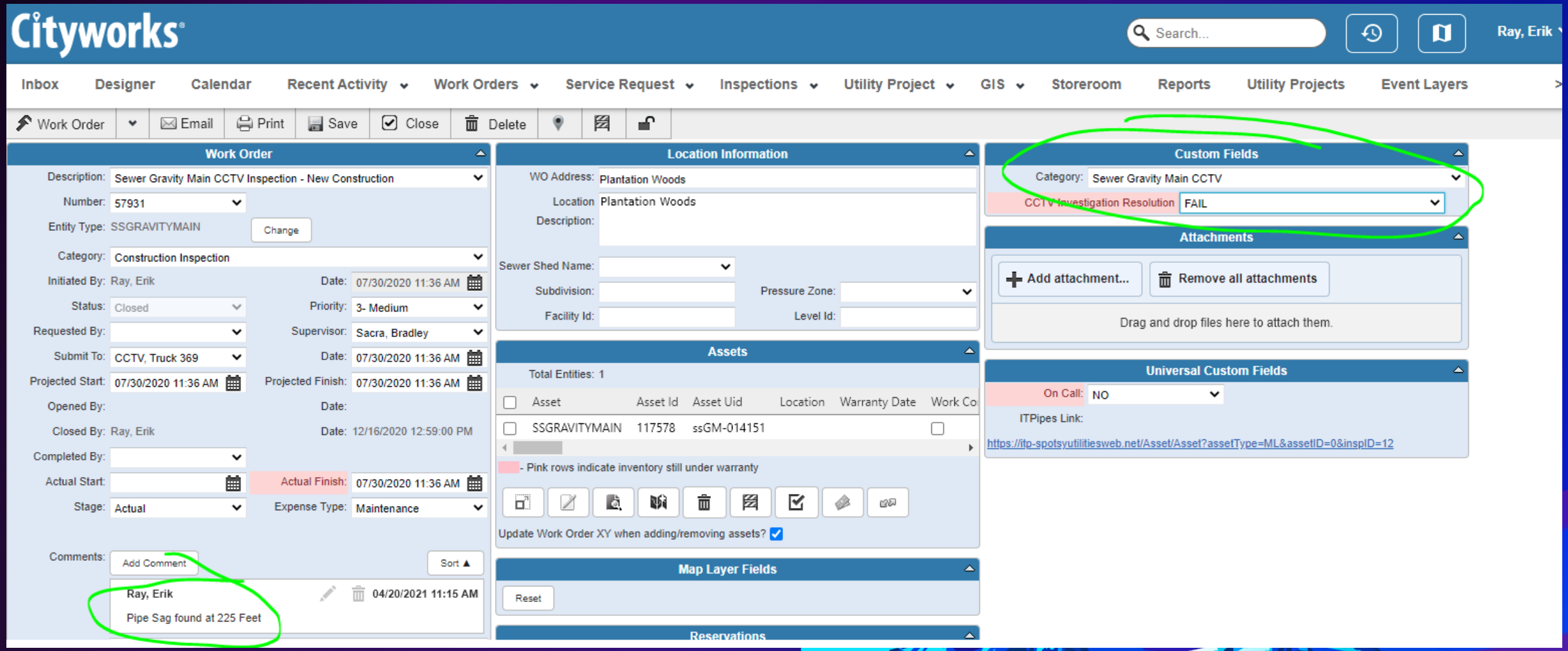
Total Cost: 93.545 Total Hours: 1

Id	Description	Status	Start	Finish	Expense
58340	Update GIS - Post Asbuilt	CLOSED	08/20/2020 8:00 AM	08/24/2020 3:00 PM	MAINT
58304	Sewer Gravity Main CCTV Inspection - New Construction	CLOSED		09/2/2020 12:40 PM	MAINT
57931	Sewer Gravity Main CCTV Inspection - New Construction	CLOSED		07/30/2020 11:36 AM	MAINT
54572	Update GIS - Approved Plans	CLOSED	01/24/2020 2:30 PM	01/30/2020 4:00 PM	MAINT

Inspections - 1 found

Id	Description	Status	Inspected
11109	NC - SS Low Pressure Air Test	CLOSED	05/14/2020 8:54 AM

Recent Scenario – New Pipe Installation Issue



Recent Scenario – New Pipe Installation Issue

Work Order | Email | Print | Save | Close | Delete

Work Order

Description: Sewer Gravity Main CCTV Inspection - New Construction
Number: 58304
Entity Type: SSGRAVITYMAIN — Change
Category: Construction Inspection
Initiated By: Gunnett, Stephan — Date: 08/12/2020 10:13 AM
Status: Closed — Priority: 3- Medium
Requested By: Gunnett, Stephan — Supervisor: Sharpe, Larry
Submit To: CCTV, Truck 369 — Date: 08/12/2020 10:13 AM
Projected Start: 08/13/2020 10:00 AM — Projected Finish: 08/13/2020 10:00 AM
Opened By: — Date:
Closed By: PipesAccess, IT — Date: 9/2/2020 12:55:54 PM
Completed By:
Actual Start: — Actual Finish: 09/2/2020 12:40 PM
Stage: Actual — Expense Type: Maintenance

Comments: Add Comment — Sort ▲
no comments

Instructions: Repairs to section of pipe made. Please CCTV to confirm repairs made to utilities standards. Thanks.

Location Information

WO Address: Plantation Woods
Location: Plantation Woods
Description:
Sewer Shed Name:
Subdivision: — Pressure Zone:
Facility Id: — Level Id:

Assets

Total Entities: 1

Asset	Asset Id	Asset Uid	Location	Warranty Date
SSGRAVITYMAIN	117578	ssGM-014151		

- Pink rows indicate inventory still under warranty

Update Work Order XY when adding/removing assets? ☑

Map Layer Fields

Reset

Reservations

Equipment ID | Employee | Start Date | End Date

Custom Fields

Category: Sewer Gravity Main CCTV
CCTV Investigation Resolution: PASS

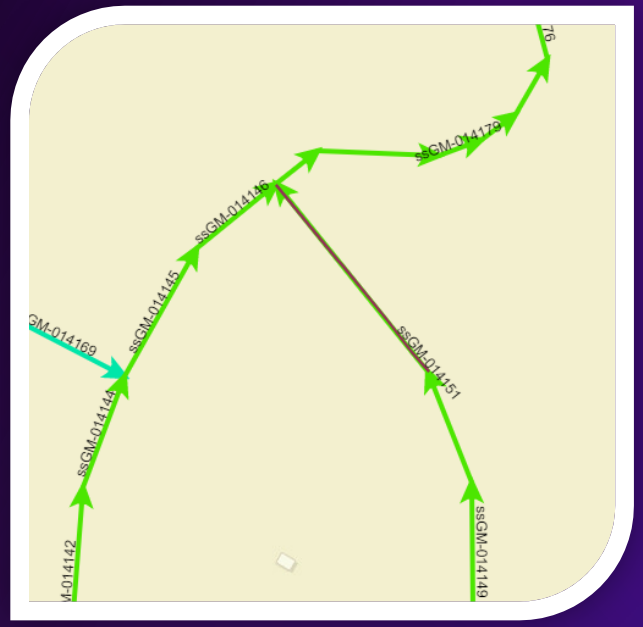
Attachments

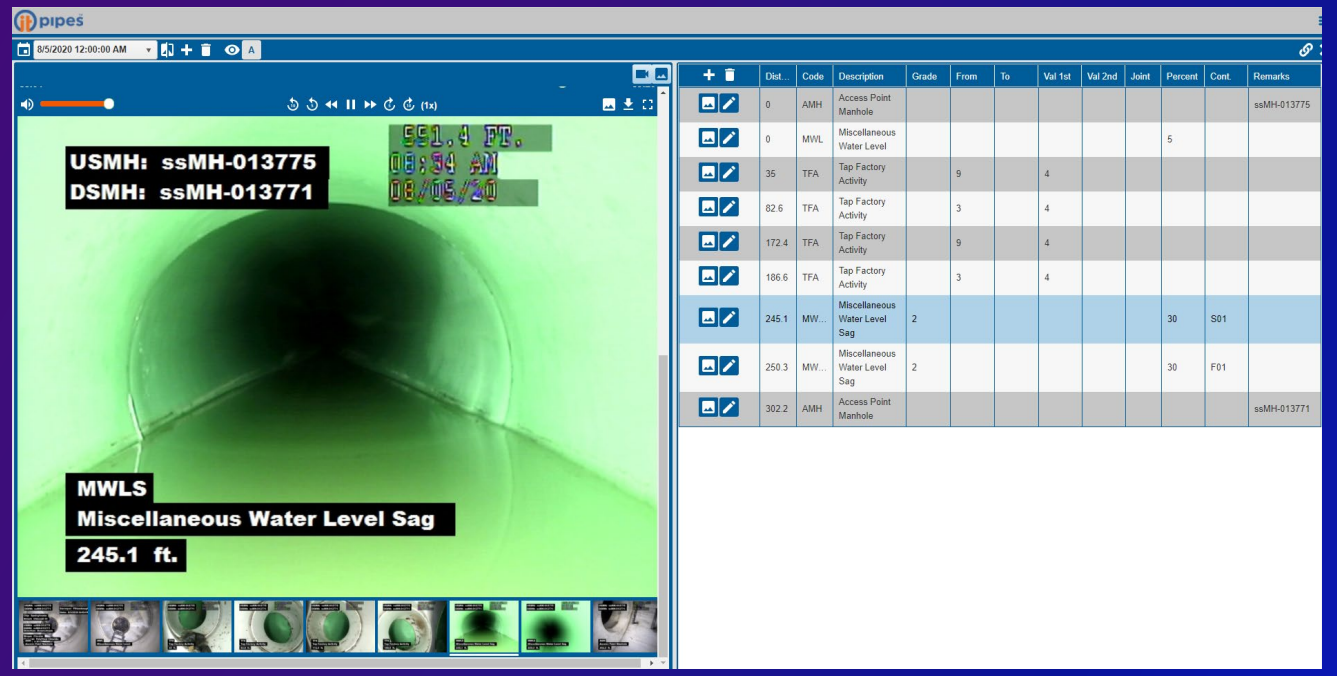
Add attachment... | Remove all attachments

Drag and drop files here to attach them.

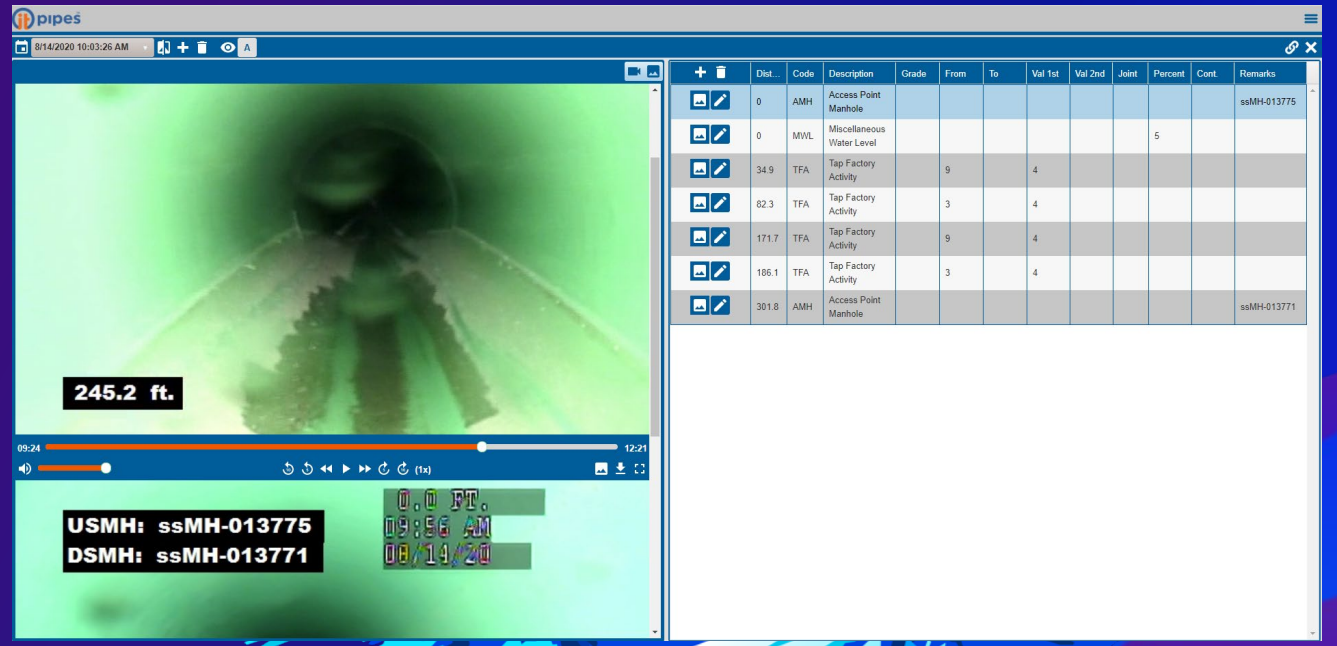
Universal Custom Fields

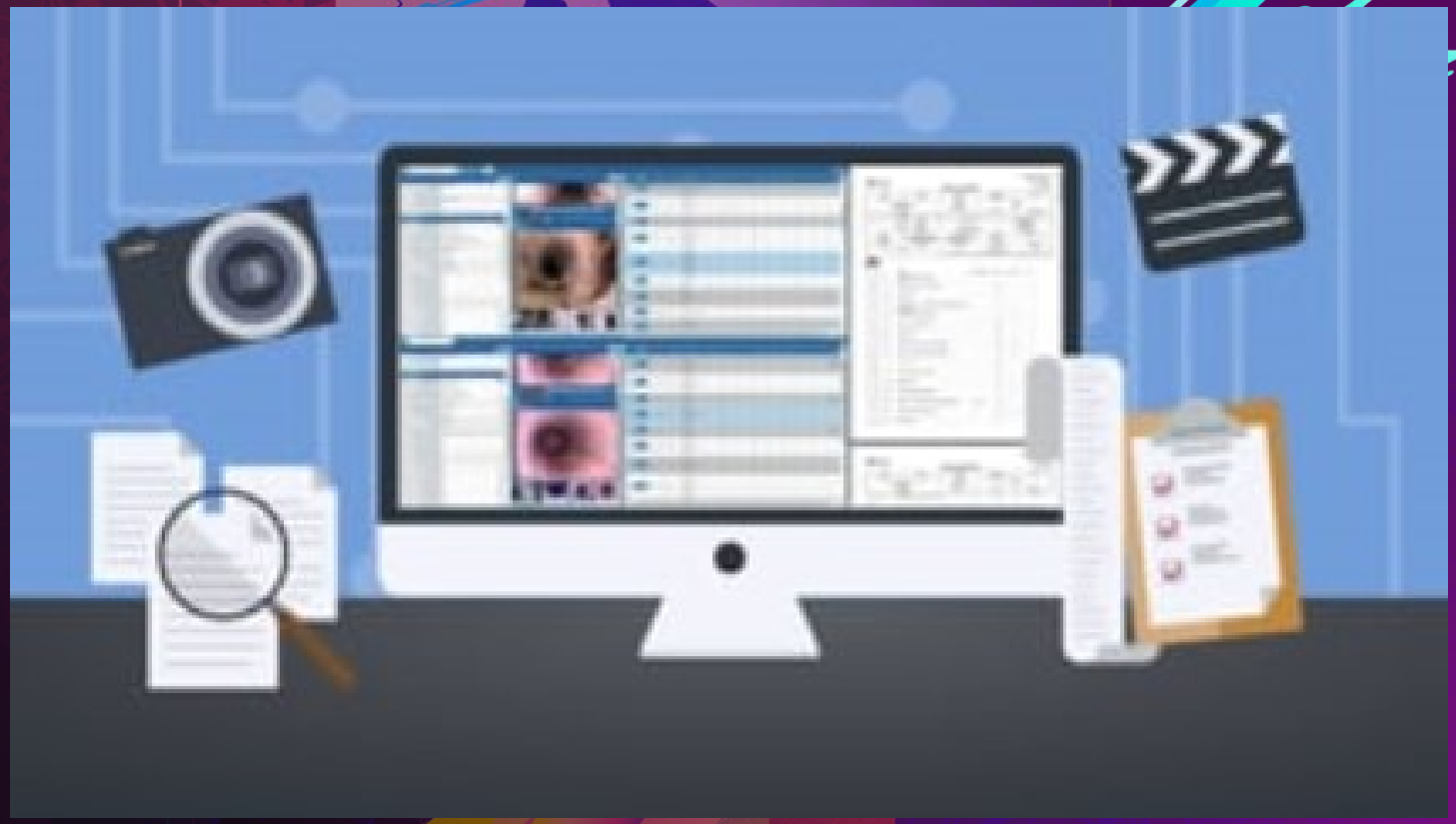
Before



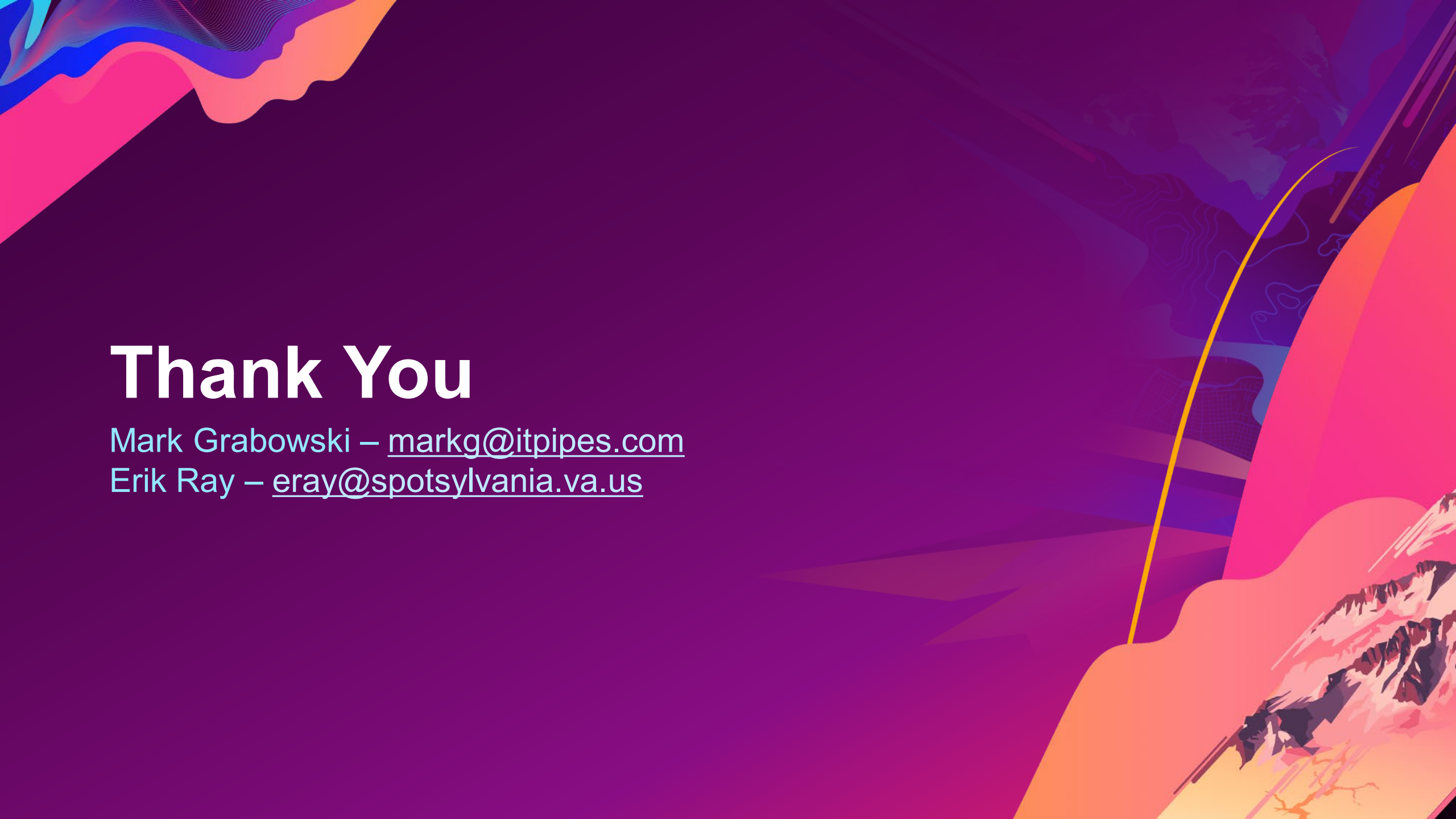


After





Cityworks, Esri, & ITpipes

Thank You

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