

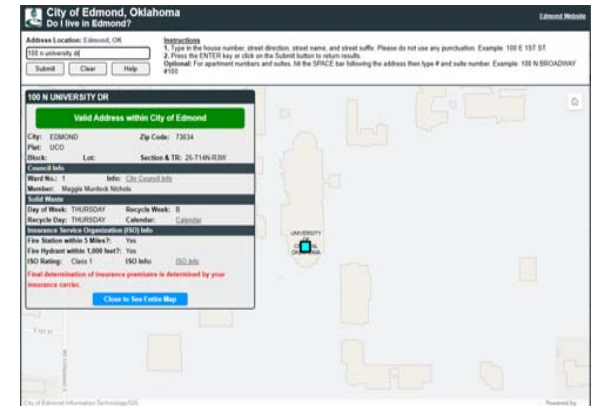
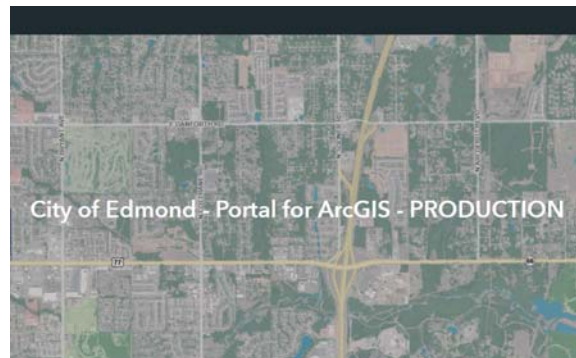
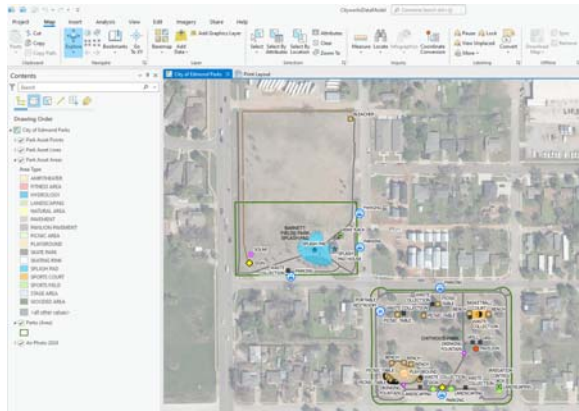


What's going on with City of Edmond GIS in 2025?

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Abstract:

The City of Edmond GIS Team continues to develop and expand the GIS architecture within the organization allowing for increased capabilities and improved workflows. In 2024, ArcGIS for Portal was introduced within the Organization and is used for all web GIS and Asset Management System (AMS) applications. Currently, the GIS Team is working towards migrating ArcMap Desktop software to ArcGIS Pro Desktop software. Web GIS applications built using Web App Builder (WAB) Developer Edition and custom applications developed from the ArcGIS API for JavaScript 3.x are transitioning to new platforms. New platforms for building web GIS applications include leveraging Experience Builder Developer Edition and ArcGIS API for JavaScript 4.x technologies. Work is progressing on developing Asset Management System (AMS) data models for Facility Maintenance and Parks and Recreation. Other activities include process improvements for updating address and streets data for NG911, data updates for public web GIS applications and internal processes. This presentation covers existing activities, challenges encountered and plans for the future of the City of Edmond GIS.

Keywords:

COE, City of Edmond, Data Models, Edmond GIS, NG911, Portal for ArcGIS, Web Applications



Topics Covered

The following topics will be included in this presentation:

- Overview of Edmond GIS - Database, Geodatabase, Datasets and Web Services
- Portal for ArcGIS
- Migrating ArcMap Desktop To ArcGIS Pro Desktop
- Web GIS Application Conversion
- GIS Data Models
- NG911
- Processes used for Updating Data
- Challenges
- Future Plans
- Questions



Database and Geodatabase

Definition: is a collection of geographic datasets of various types held in a common file system folder, or a multiuser relational database management system (RDMS). Geodatabases come in many sizes; have varying numbers of users; and can scale from small, single-user databases built on files up to larger workgroup, department, and enterprise geodatabases accessed by many users. (source: ESRI)

Managing Data, Roles and Permissions



RDMS
SQL Server 2019



Geodatabase
Enterprise GDB 10.8.1 – Stores Datasets

- Data stored in the geodatabase serves a variety of desktop and web applications
- Also have a TEST Environment that contains a copy of the PRODUCTION geodatabase



Geodatabase and Datasets

The geodatabase contains:



Feature Classes – Points, Lines and Polygons, Tables and Relationship classes

Fast Facts:

- 43 Feature Datasets
- 578 Feature Classes
- 19 Annotation Classes
- 156 Tables
- 465 Relationship Classes
- 325 Coded Domain Values
- 6 Spatial Views

Feature Dataset with Feature Classes

- sde.SDEGIS.BASE
- sde.SDEGIS.COELIM_L
- sde.SDEGIS.COELIMIT
- sde.SDEGIS.EASEMENTS
- sde.SDEGIS.GPS_MONUMENTS
- sde.SDEGIS.GRID_INDEX
- sde.SDEGIS.HSGD
- sde.SDEGIS.NBHD
- sde.SDEGIS.PARCELS
- sde.SDEGIS.PLATS
- sde.SDEGIS.QTR_GRID
- sde.SDEGIS.QTR_QTR_GRID
- sde.SDEGIS.SCHOOLS

Relationship Classes

- sde.SDEGIS.Addresses_Has_Customers
- sde.SDEGIS.Addresses_Has_EMCollar
- sde.SDEGIS.Addresses_Has_Emeter
- sde.SDEGIS.Addresses_Has_WMeter

Coded Domain Values – Specified Values for Fields

Domain Owner	Domain Name	Description
SDEGIS	ElectricConduitMaterial	
Code	Description	
Poweredped	Poweredped	
Powerpack	Powerpack	
Outlets	Exterior Outlets	



Datasets - Imagery

Large catalog of imagery. Available imagery datasets include:

1995/1996/1997



2001



2003



2004



2005



2007



2009



2010



2011



2012



2013



2014



2015



2016



2017



2018



2019



2020



2021



2022



2023



2024



Since 2011, imagery datasets contains a 3-inch per pixel resolution

The 2025 imagery will be delivered in the Fall



Datasets – Topographic Data

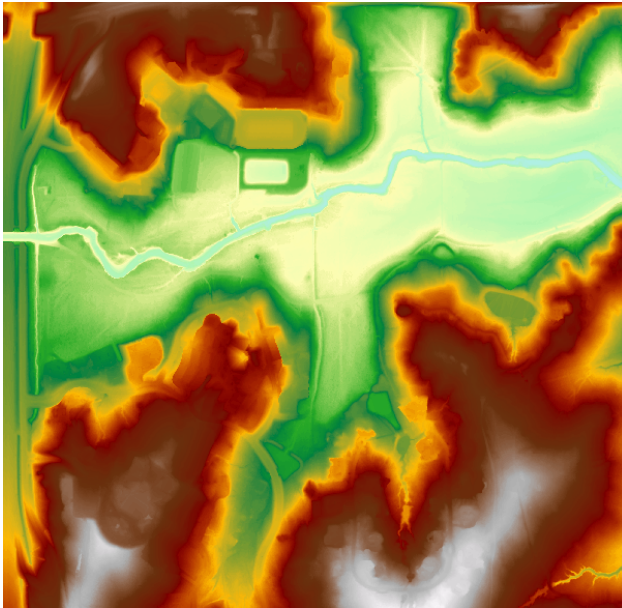
Topographic Data:

Information about the elevation surface of the earth.

Data Catalog

The City of Edmond has topographic datasets (1-foot contours) for 2007, 2016, 2018, 2019, 2020, 2021, 2022, 2023 and 2024. Data formats include:

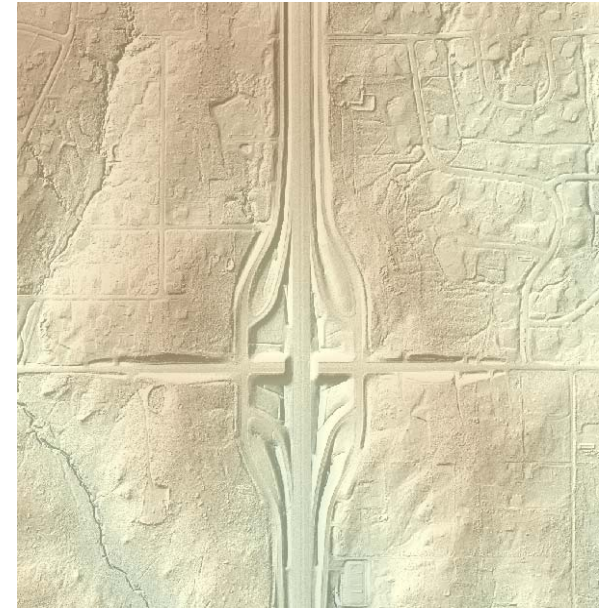
Digital Elevation Model (DEM)



Contours and Spot Elevations



Topographic Raster - Hillshade



Data Collection

Topographic data is collected using **Light Detection and Ranging (LIDAR)** from aircraft using sensors



Web Mapping Services

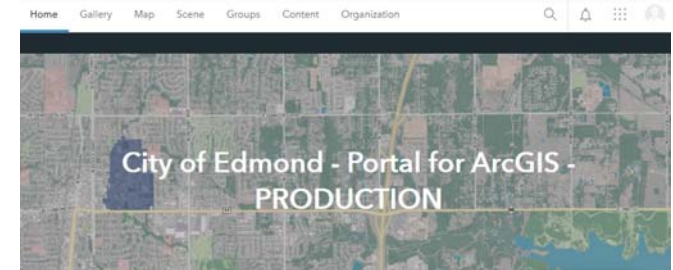
ArcGIS Server/Portal for ArcGIS and ArcGIS Online

Our organization uses ArcGIS Server/Portal for ArcGIS and ArcGIS Online to host web mapping services to meet the needs of our end users.

Fast Facts:

- ArcGIS Server installed on 3 machines (2 internal and 1 DMZ)
- Portal for ArcGIS installed on two Machines (PROD and TEST)
- 75 internal ArcGIS Server web mapping services
- 8 internal Geoprocessing Services (Printing and Mapping Tools)
- 1 Composite Address Locator Service (Includes Addresses and Streets)
- 35 external (DMZ) ArcGIS Server web services for Public
- All web services are used in internal and external web mapping applications

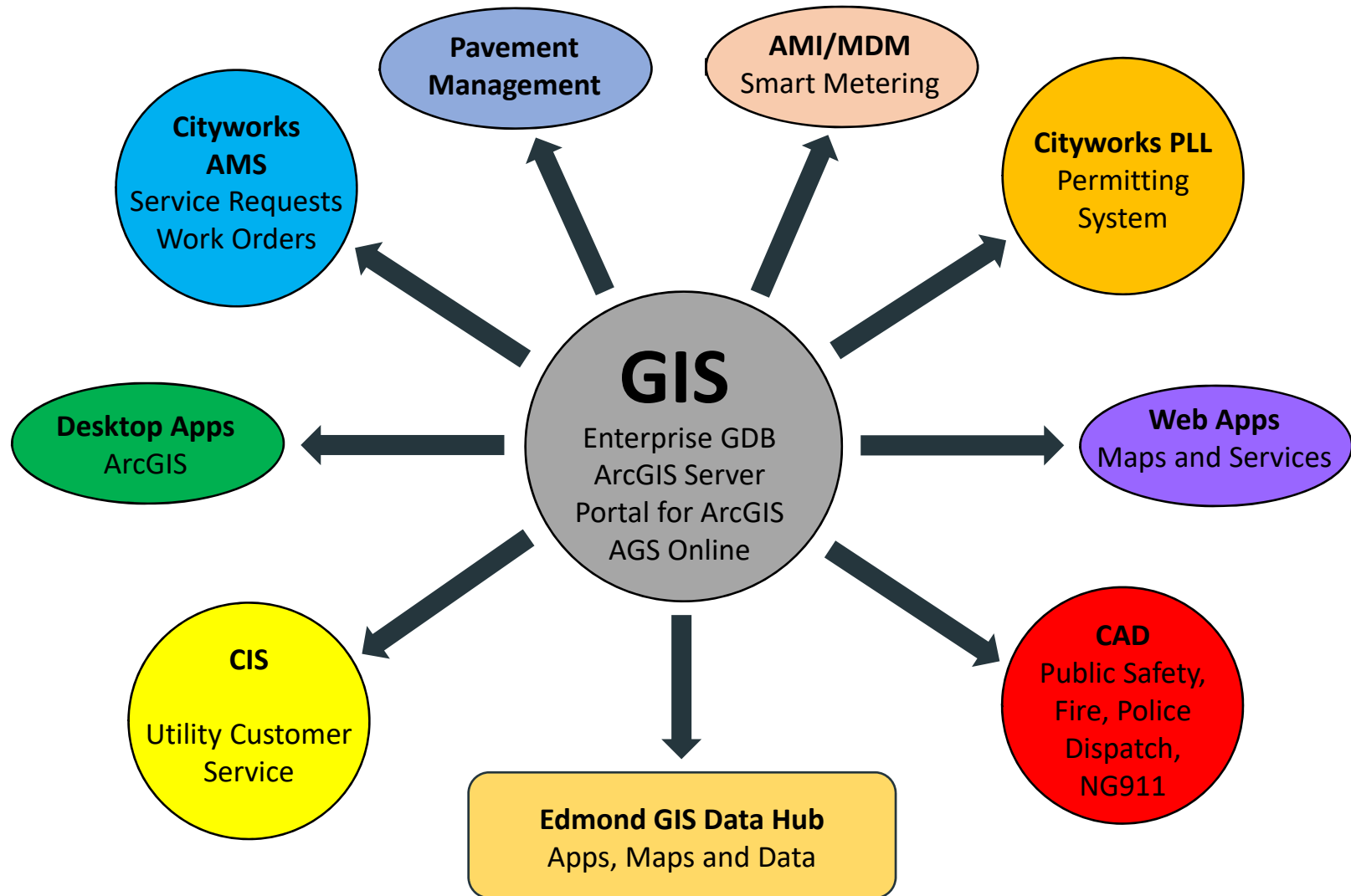
```
// Map - Services and Feature Layers
// 01. Air Photo - Map Service
airPhoto = new ArcGISDynamicMapServiceLayer("https://arcgis.edmondok.com/arcgis/rest/services/AirPhotos/AirPhoto/MapServer", {
  id: "Air Photo 2020",
  visible: false,
  outFields: ["*"]
});
```





Application Integration

GIS is integrated into other applications that are used for a variety of City operations.

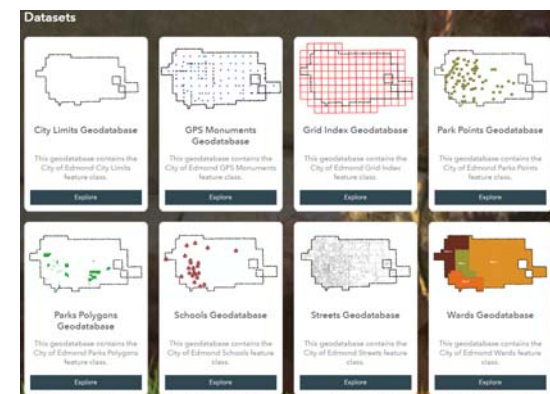
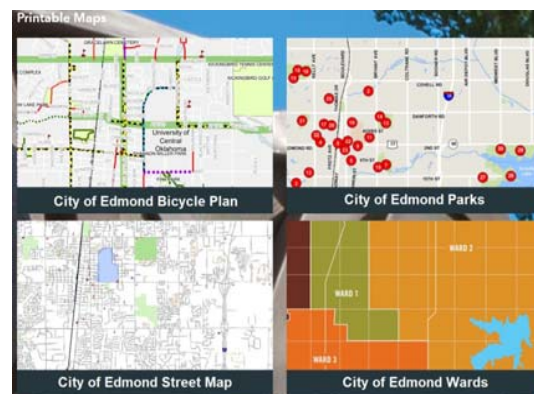
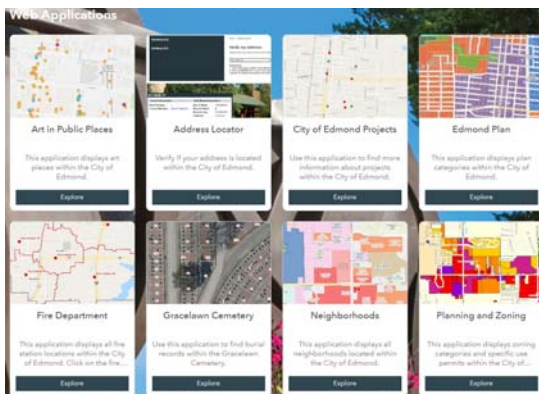
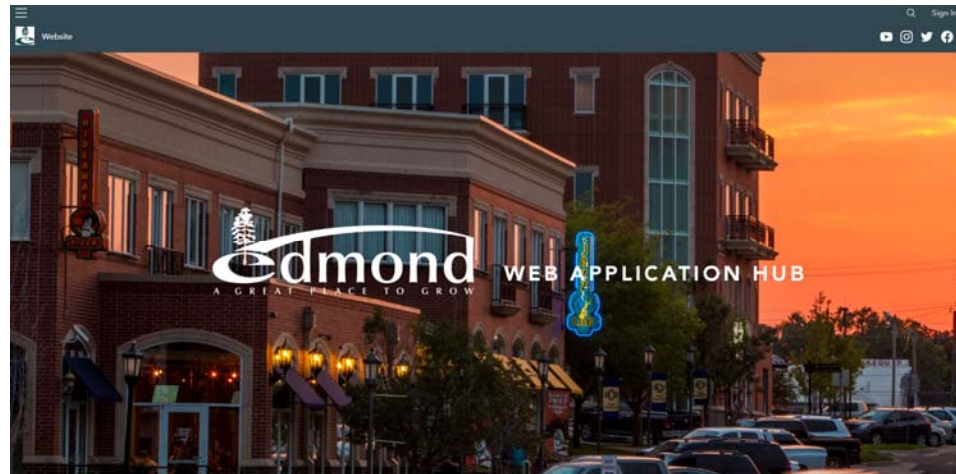




Edmond GIS Data Hub

The data hub is a centralized location for accessing applications, maps and datasets. The datahub is intended for internal and public use.

<https://maps.edmondok.gov/>





Portal for ArcGIS

Portal for ArcGIS is used for all internal web GIS applications within the City of Edmond. The City of Edmond has Portal for ArcGIS in both PRODUCTION and TEST Environments.

Portal for ArcGIS is a component of ArcGIS Enterprise that allows you to share maps, scenes, apps, and other geographic information with other people in your organization.

Portal provides centralized data management, streamlined sharing capabilities, enhanced collaboration, robust security controls, accessibility for various user levels, and integration with other ArcGIS products; making it a valuable tool for managing and distributing GIS information within an enterprise environment.

Sign in to ArcGIS Enterprise with esri

ArcGIS login

Username

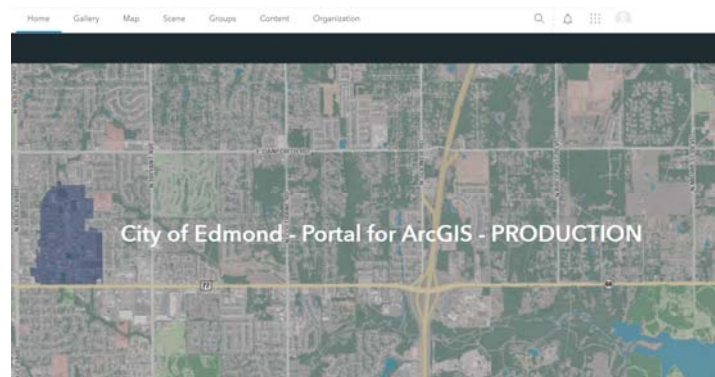
Password

Keep me signed in

[Sign In](#)

[Forgot password?](#)

[SSO Login](#)



Search All My Content

1 - 20 of 150 in All My Content

<input type="checkbox"/>	Title		
<input type="checkbox"/>	Addresses	Locator	
<input type="checkbox"/>	MapMaker	Map Image Layer	
<input type="checkbox"/>	CWTraffic	Map Image Layer	
<input type="checkbox"/>	CWVegetationManagement	Feature Layer	
<input type="checkbox"/>	CWVegetationManagement	Map Image Layer	

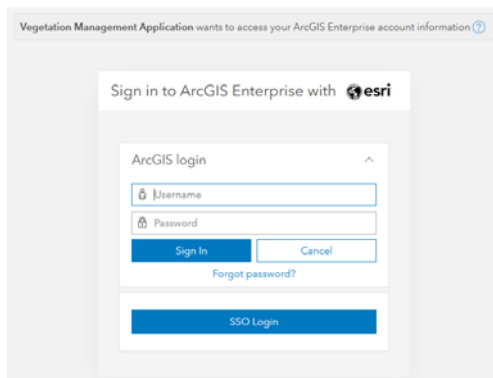


Portal for ArcGIS

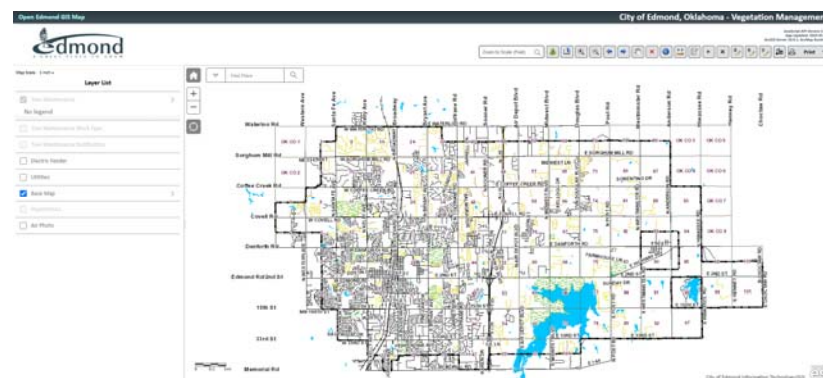
Portal for ArcGIS is used for all internal web GIS applications within the City of Edmond. The City of Edmond has Portal for ArcGIS in both PRODUCTION and TEST Environments. Federated with ArcGIS Server in both environments.

Portal for ArcGIS usage started in 2024 for the City of Edmond.

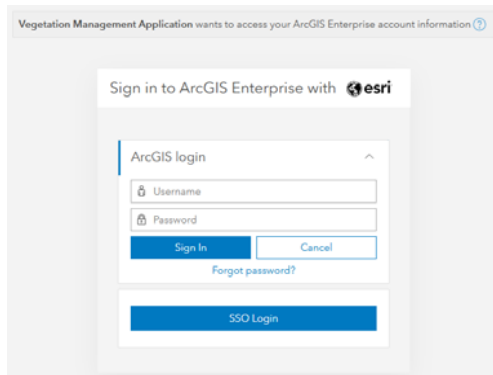
Production – Portal for ArcGIS



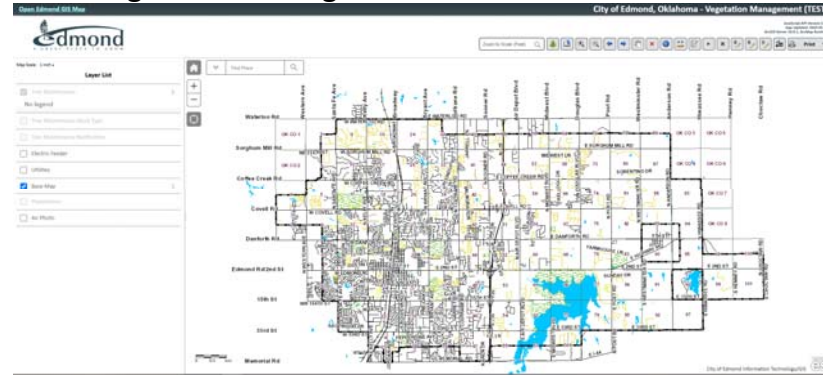
Production – Vegetation Management



Test – Portal for ArcGIS



Test – Vegetation Management



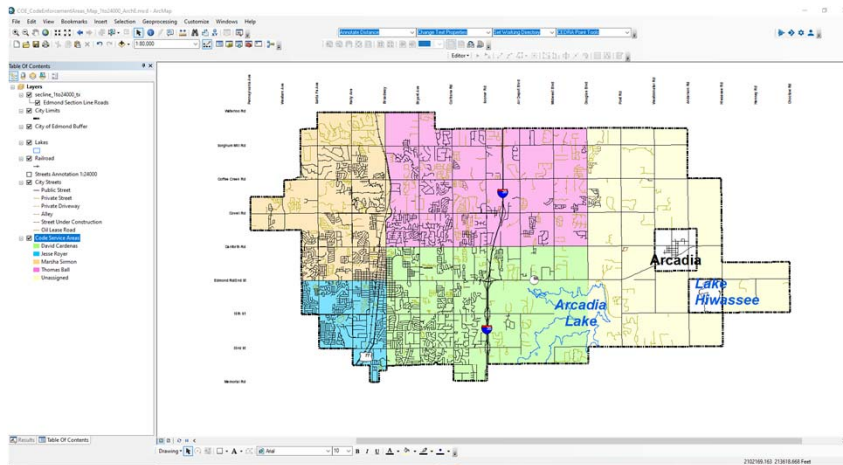


Migrating ArcMap to ArcGIS Pro

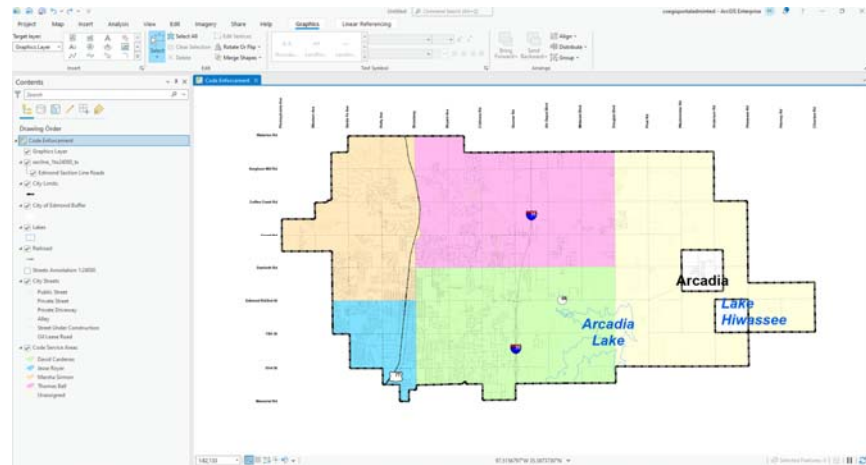
The City of Edmond is currently in the process of migrating ArcMap users to ArcGIS Pro.

- Document current processes that are used in ArcMap
- Replicate these processes using ArcGIS Pro tools and workflows
- Provide training to end users
- Removal of ArcMap...RIP

ArcMap 10.8.1



ArcGIS Pro 3.x

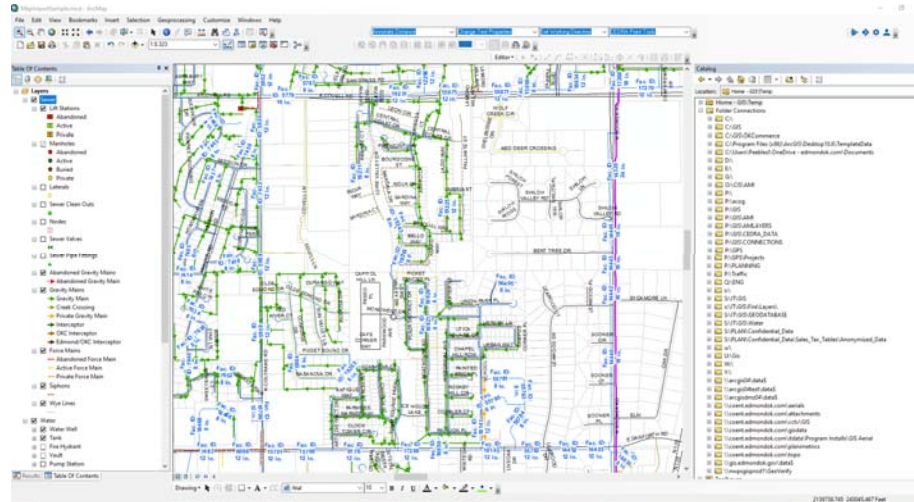




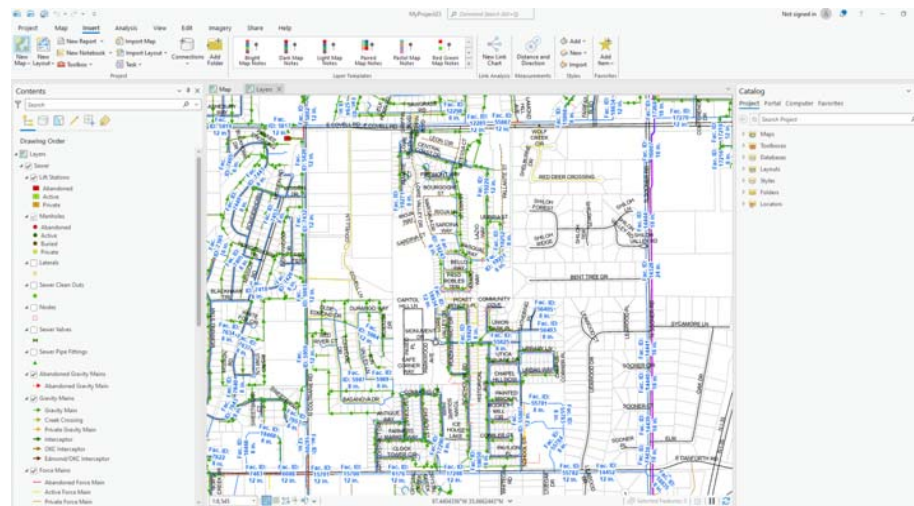
Migrating ArcMap to ArcGIS Pro

Import maps from ArcMap into ArcGIS Pro.

ArcMap



ArcGIS Pro



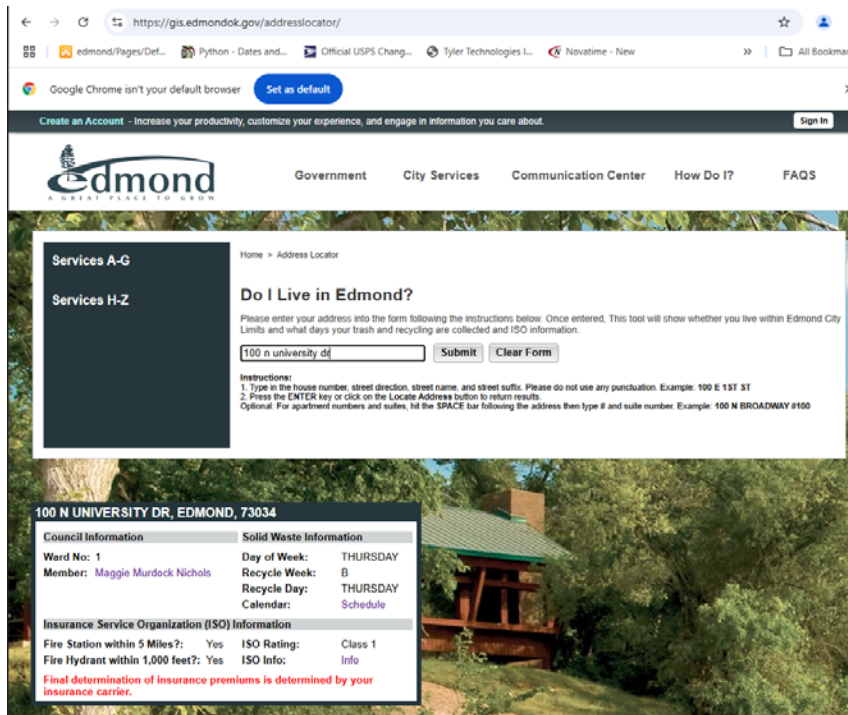


Web GIS Application Conversion

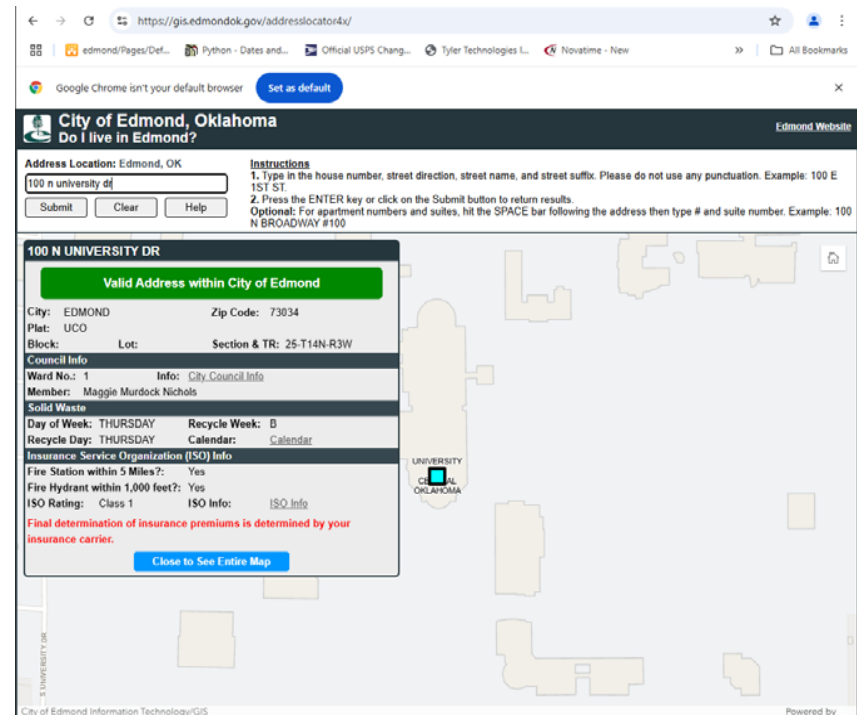
We are currently working on converting web GIS applications.

- Convert all custom web GIS applications from ArcGIS API for JavaScript 3.x to 4.x
- Migrate all Web App Builder (WAB) Developer Edition Applications to Experience Builder

Address Locator Application – For Public Use ArcGIS API for JavaScript 3.x (No Map)



Address Locator Application – For Public Use ArcGIS API for JavaScript 4.x (With Map)

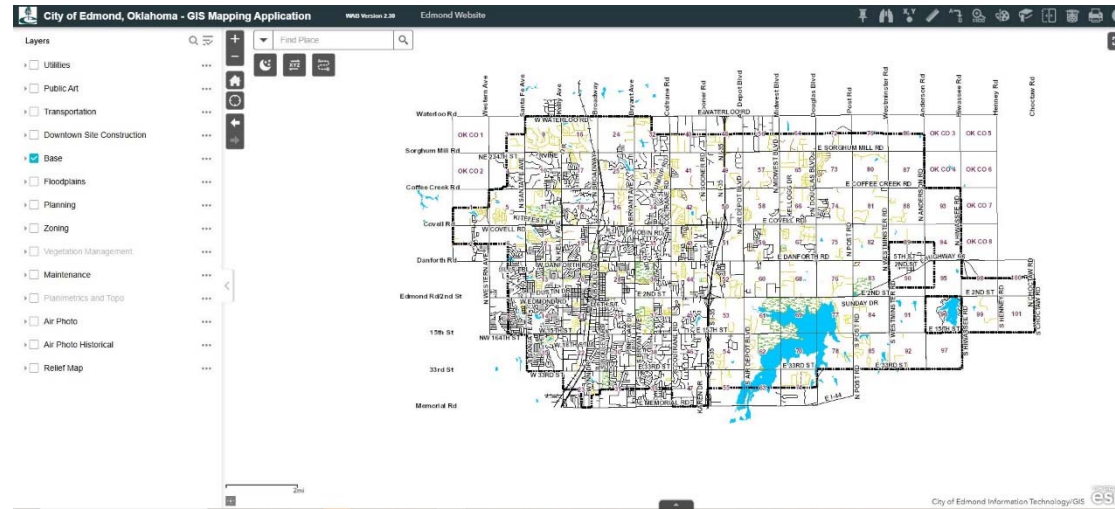




Web GIS Application Conversion

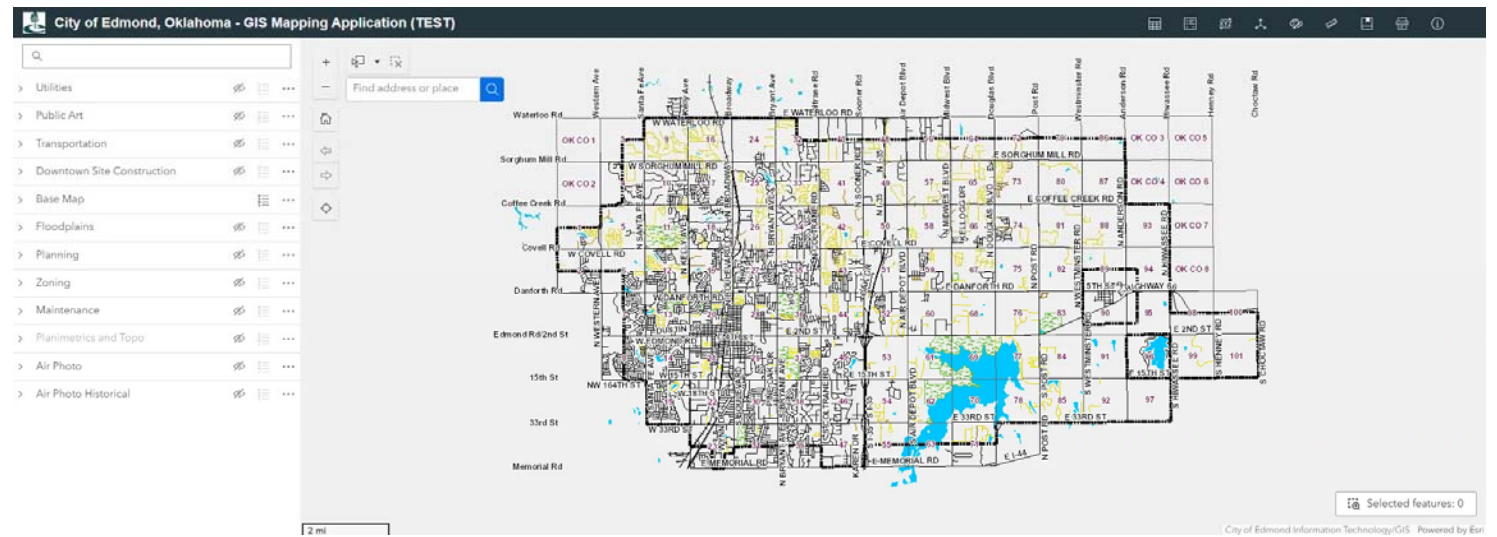
Edmond GIS
Web App Builder
Developer Edition

Application Viewer for
Internal Use



Edmond GIS
Experience Builder
Developer Edition

Application Viewer for
Internal Use





GIS Data Models

The GIS Team continues to develop new data models to support the needs of staff members. Data models are used for the Asset Management system.

Data Models in current Development include:

Facility Maintenance



Parks and Recreation



These models contain numerous attributes to describe The characteristics of the asset.

X Coordinate	Y Coordinate	Asset ID	Extern...	Asset Type	Asset Description	Department	Location	Location Details	Sublocation	Manufacturer	Model	Model Number	Serial Number	Install Price	Install Date	Install Cost
2142256.23996	247498.298314	WATH-XTALW-002-0000	<Null>	WATER HEATER	<Null>	PARKS AND RECREATION	2424 OLD TIMBERS DR	EQUIPMENT ROOM (N...	SOCCER COMPLEX	AO SMITH	<Null>	H120336	1050J001512	<Null>	<Null>	<Null>
2122816.24716	243950.406689	WATH-GLC-001-0000	<Null>	WATER HEATER	<Null>	GRACELAWN CEMETERY	1407 N BOULEVARD	MECHANICAL ROOM	GRACELAWN CEMETERY	RHEEM	<Null>	H104021	RH1205619351	<Null>	<Null>	<Null>
2142256.23996	247498.298314	WATH-XTALW-001-0000	<Null>	WATER HEATER	<Null>	ANIMAL WELFARE	2424 OLD TIMBERS DR	MECHANICAL ROOM	ANIMAL SERVICES	AO SMITH	<Null>	H104006	MM030018305	<Null>	<Null>	<Null>
2129077.99996	234523.796914	WATH-PBA-001-0000	<Null>	WATER HEATER	<Null>	PARKS AND RECREATION	1034 S BRYANT AVE	CONCESSION MECHA...	PELICAN BAY	RHEEM	<Null>	H88341	CW1201RR1101E00114	<Null>	<Null>	<Null>
2129077.99996	234523.796914	WATH-PBA-002-0000	<Null>	WATER HEATER	<Null>	PARKS AND RECREATION	1034 S BRYANT AVE	MENS LOCKER ROOM...	PELICAN BAY	RHEEM	<Null>	H88342	CW120RR0901E00422	<Null>	<Null>	<Null>
2129077.99996	234523.796914	WATH-PBA-003-0000	<Null>	WATER HEATER	<Null>	PARKS AND RECREATION	1034 S BRYANT AVE	WOMENS LOCKER RO...	PELICAN BAY	RHEEM	<Null>	H88343	CW120RR0901W00420	<Null>	<Null>	<Null>
2152051.39996	243629.851614	WATH-PDFR-001-0000	<Null>	WATER HEATER	<Null>	POLICE	7707 E DANFORTH	MECHANICAL ROOM 1...	POLICE TRAINING	BRADFORD WHITE	<Null>	H88345	ZF3329288	<Null>	<Null>	<Null>
2152051.39996	243629.851614	WATH-PDFR-002-0000	<Null>	WATER HEATER	<Null>	POLICE	7707 E DANFORTH	WOMENS RESTROOM...	POLICE TRAINING	STATE	<Null>	H79353	G8638495	<Null>	<Null>	<Null>

Department	Park Name	Funding Source	Asset Type	Asset Description	Facility ID	Name	X Coordinate	Y Coordinate	Location	Location Details	Vendor	Manufacturer	Model	Serial Number	Material	Install Date	Service Plan
PARKS AND RECREATION	MITCH PARK	<Null>	SEATING EQUIPMENT	SPORTS BLEACHER	<Null>	<Null>	-97.500674	35.686378	MATHIS SKATE PARK	NORTH END BEHIND F...	<Null>	<Null>	<Null>	<Null>	STEEL	<Null>	<Null>
PARKS AND RECREATION	MITCH PARK	<Null>	WASTE COLLECTION	WASTE COLLECTION	<Null>	<Null>	-97.504297	35.683279	CONCESSION BUILDING	PARKING LOT IN FRON...	<Null>	<Null>	<Null>	<Null>	METAL	<Null>	<Null>
PARKS AND RECREATION	MITCH PARK	<Null>	WASTE COLLECTION	WASTE COLLECTION	<Null>	<Null>	-97.504251	35.683273	CONCESSION BUILDING	PARKING LOT IN FRON...	<Null>	<Null>	<Null>	<Null>	METAL	<Null>	<Null>
PARKS AND RECREATION	MITCH PARK	<Null>	WASTE COLLECTION	WASTE COLLECTION	<Null>	<Null>	-97.504585	35.683515	CONCESSION BUILDING	WEST OF CONCESSIO...	<Null>	<Null>	<Null>	<Null>	METAL	<Null>	<Null>
PARKS AND RECREATION	MITCH PARK	<Null>	SEATING EQUIPMENT	PICNIC TABLE	<Null>	<Null>	-97.506222	35.683056	MARILYN WILLIAMS DR...	180 FEET EAST OF MA...	<Null>	<Null>	<Null>	<Null>	METAL	<Null>	<Null>
PARKS AND RECREATION	MITCH PARK	<Null>	SEATING EQUIPMENT	PICNIC TABLE	<Null>	<Null>	-97.506116	35.6831	MARILYN WILLIAMS DR...	80 FEET EAST OF MAR...	<Null>	<Null>	<Null>	<Null>	METAL	<Null>	<Null>
PARKS AND RECREATION	MITCH PARK	<Null>	LANDMARK	SILO	<Null>	<Null>	-97.505375	35.682798	JL MITCH PARK	160 FEET OF JL MITCH...	<Null>	<Null>	<Null>	<Null>	WOOD AND METAL	<Null>	<Null>
PARKS AND RECREATION	MITCH PARK	<Null>	ELECTRICAL EQUIPMENT	PARKING LOT LIGHT	<Null>	<Null>	-97.504758	35.683312	MITCH PARK SOUTH M...	JL MITCH RD NORTH P...	<Null>	<Null>	<Null>	<Null>	METAL WITH CONCRE...	<Null>	<Null>
PARKS AND RECREATION	MITCH PARK	<Null>	ELECTRICAL EQUIPMENT	PARKING LOT LIGHT	<Null>	<Null>	-97.503868	35.683164	MITCH PARK SOUTH M...	<Null>	<Null>	<Null>	<Null>	<Null>	METAL WITH CONCRE...	<Null>	<Null>



GIS Data Models

Facility Maintenance – Mitch Mark
Cityworks 23 – Respond Sample

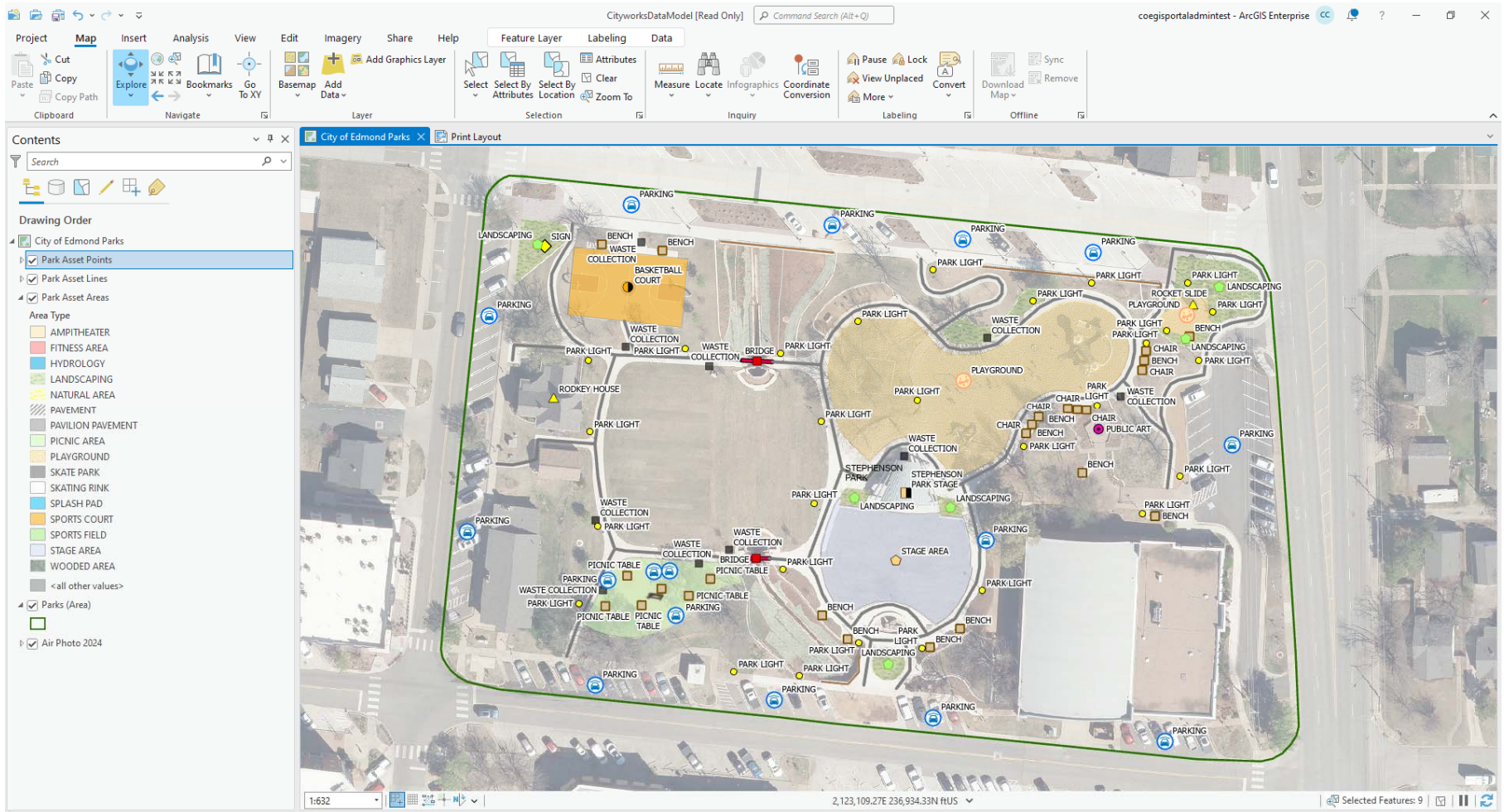
The screenshot displays the Cityworks Respond interface. On the left, the 'Assets' panel shows a table of facility maintenance assets. The table includes columns for Uid, OBJECTID, X Coordinate, Y Coordinate, and Asset ID. Below the table are buttons for 'View Details', 'Create Work Order(s)', and 'Create Inspection(s)'. The main map area shows a satellite view with several assets highlighted in green and yellow. A legend on the right side of the map lists various asset types, including 'Facility Maintenance Asset' and 'Facility Maintenance Site'. The map also shows street names like 'MITCH PARK Y.M.C.A.' and 'MAC SENIOR CENTER'.

Uid	OBJECTID	X Coordinate	Y Coordinate	Asset ID
WATH-MAC-001-0000	54	-10854527.121740991	4257122.7223653905	WATH-MAC-001-0000
WATH-MAC-002-0000	55	-10854527.121740991	4257122.7223653905	WATH-MAC-002-0000
WATH-MAC-003-0000	56	-10854527.121740991	4257122.7223653905	WATH-MAC-003-0000
GENR-MAC-001-0000	87	-10854527.121740991	4257122.7223653905	GENR-MAC-001-0000
HVAC-MAC-001-0000	333	-10854527.121740991	4257122.7223653905	HVAC-MAC-001-0000
HVAC-MAC-002-0000	334	-10854527.121740991	4257122.7223653905	HVAC-MAC-002-0000
HVAC-MAC-003-0000	335	-10854527.121740991	4257122.7223653905	HVAC-MAC-003-0000
HVAC-MAC-004-0000	336	-10854527.121740991	4257122.7223653905	HVAC-MAC-004-0000
HVAC-MAC-005-0000	337	-10854527.121740991	4257122.7223653905	HVAC-MAC-005-0000
HVAC-MAC-006-0000	338	-10854527.121740991	4257122.7223653905	HVAC-MAC-006-0000



GIS Data Models

Parks and Recreation – Stephenson Park ArcGIS Pro Sample





NG911

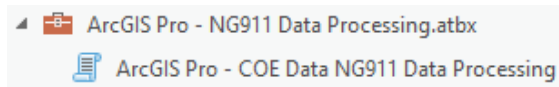
What is Next Generation 911 (NG911)?

NG911 is an internet protocol (IP)- based 911 system that will replace the existing analog 911 infrastructure. NG911 allows 911 callers, through mobile and digital devices, to communicate with 911 call centers, also known as Public Safety Answering Points (PSAPs).

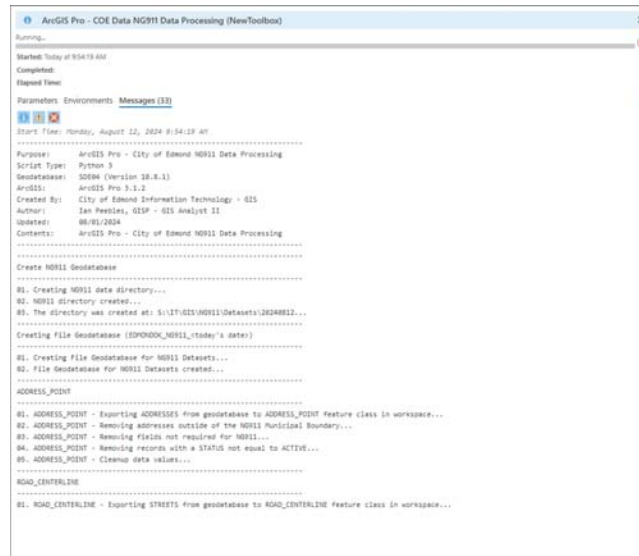
COE Methodology

We developed an arcpy toolkit to help prepare City of Edmond streets for the State NG911 Toolkit. After running our custom script, we run the State NG911 toolkit to identify errors that need to be corrected.

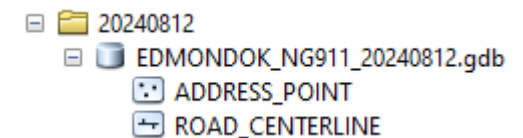
COE Script Tool



COE Script Tool Processing Log



Data Output





NG911

The State NG911 Toolkit

Frequency of Update

The State of Oklahoma receives data from the City of Edmond monthly.

1. Run State OK NG911 Toolkit

- 📁 Oklahoma NG911 GIS Tools.tbx
 - 📁 1 - OK Prep
 - 📁 Adjustment Tools
 - 📁 Comparison Tools
 - 📁 Enhancement Tools
 - 📁 MSAG Tools
 - 📁 Submission Tools
 - 📁 Validation Tools



```

Geodatabase passed all data checks.
Successfully zipped geodatabase
Completed script CheckAllAndZip...
Succeeded at Tue Dec 3 10:02:35 2024 (Elapsed Time: 11 minutes 28 seconds)
  
```

2. Submit Data (as .zip file)

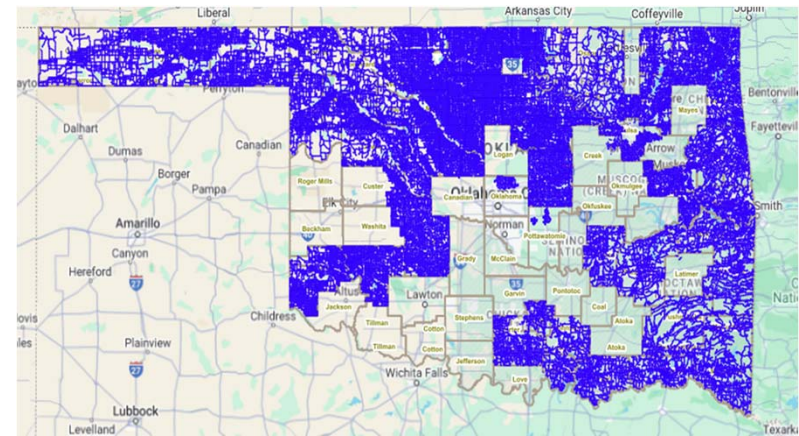
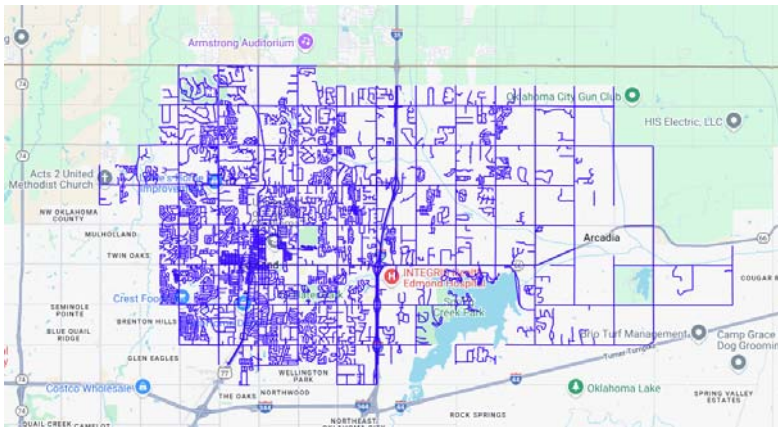
Oklahoma NG911 Data Processing

Edmond 911

[Upload a New File](#)

Upload Date**	File Name	Validation Status	Validation Date	Merge Status	Merge Date	Archive Status	Archive Date	Actions
2024-12-02	NG911_EDMOND_OK_20241202	Pending	N/A	Pending	N/A	Pending	N/A	Download Original
2024-11-05	NG911_EDMOND_OK_20241105	Valid	2024-11-05	Complete	2024-11-05	Complete	2024-11-05	Download Original Download Merged Reupload
2024-10-15	NG911_EDMOND_OK_20241014	Valid	2024-10-15	Complete	2024-10-15	Complete	2024-10-15	Download Original Download Merged Reupload
2024-09-10	NG911_EDMOND_OK_20240909	Valid	2024-09-10	Complete	2024-09-10	Complete	2024-09-10	Download Original Download Merged Reupload
2024-08-08	NG911_EDMOND_OK_20240807	Valid	2024-08-08	Complete	2024-08-08	Complete	2024-08-08	Download Original Download Merged Reupload

3. Data Posts to Oklahoma State OKMAPS





Processes Used for Updating Data

Behind the scenes processing using python scripting and model builder to streamline manual workflows and improve processes. Examples include:

Scheduled Tasks

Numerous scheduled tasks for updating source data and address locators. Run as a .bat file.

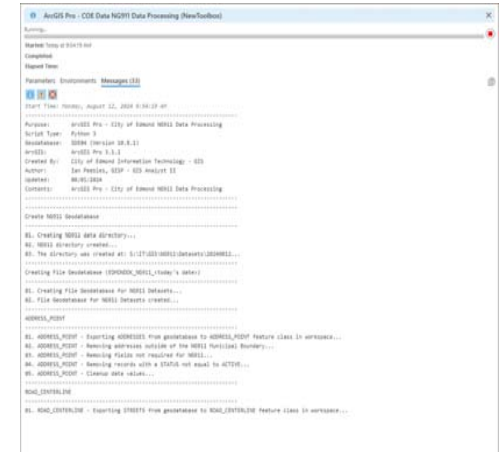
Storm Shelter Registration Processing



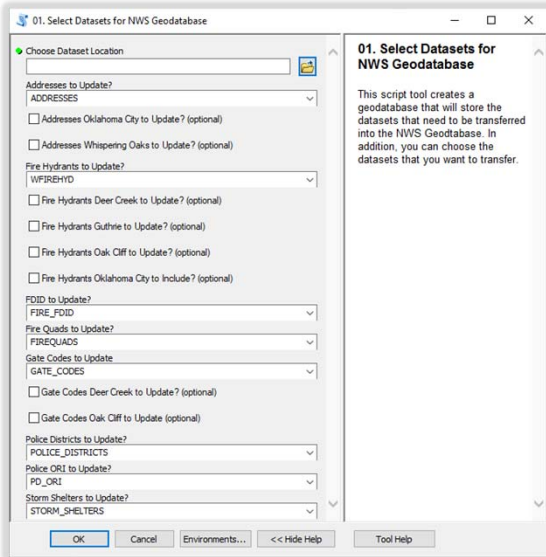
Data Integrity Checks – Nightly Process

```
1 # *****
2 # * Purpose: Check Bounding Extent for Datasets that are being edited
3 # * Script Type: Python 2.7.2
4 # * Created By: City of Edmond Information Technology - GIS
5 # * Author: Ian Peckler, GISP - GIS Analyst II
6 # * Updated: 02/04/2019
7 # * Machine: ABC0103
8 # * EMI Software: ArcGIS Desktop Version 10.4.1
9 # *
10 # * Contents: This script checks for the bounding extents of datasets that are edited in SDE.
11 # * The script checks the bounding extent range includes datasets that are within the
12 # * City of Edmond geographic area. If an extent is found out of bounds, an email
13 # * will be sent to the Applications Support Team (AST) to address the issue.
14 # *
15 # * Features:
16 # * - 01. SHOWS AGENCY NOODLES
17 # * - 02. SET DEPROCESSING ENVIRONMENTS
18 # * - 03. CREATE BOUNDING EXTENT TABLES
19 # * - 04. BOUNDING EXTENT CHECKS
20 # * - 05. FINAL FEATURE DATASET AND FEATURE CLASS COUNTS
21 # * - 06. REVERES RECORDS THAT FAILED THE CHECK
22 # *
23 # *****
24 #
25 # 01. IMPORT AGENCY NOODLES
26 # *****
27 import arcpy, os, sys, time
28 import datetime
29 from arcpy import env
30 # *****
31 #
32 # 02. SET DEPROCESSING ENVIRONMENTS
33 # *****
34 # Set Workspace
35 arcpy.env.workspace = "E:\gpcases\BoundingExtentChecker\BoundingExtentChecker.gdb"
36 workspace = arcpy.env.workspace
37 # *****
38 # 03. CREATE BOUNDING EXTENT TABLES
39 # *****
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```

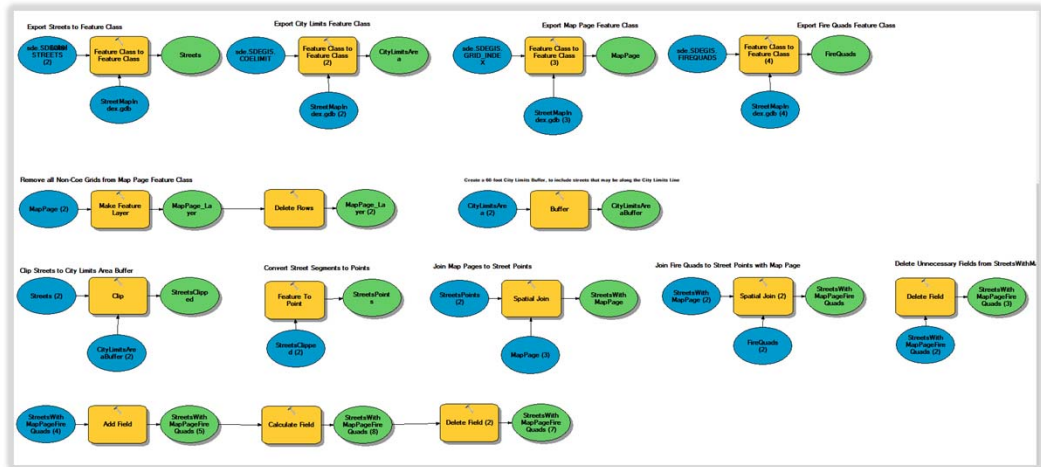
NG911 Data Processing



CAD GIS Data Processing for Public Safety



Create a Street Index - Streets for Each Mile Section





Challenges

During the implementation of GIS technology, here are some challenges we have experienced:

- ArcMap to ArcGIS Pro –
 - Replicating workflows that users are following
 - Labeling and Symbology for Layers
 - Recreating Map Layouts
- Replicating functionality between Web App Builder (WAB) Developer Edition and the Experience Builder Developer Edition
- Learning a new JavaScript API, migrating from 3.x to 4.x
- Migrating to a Utility Network Dataset for our Electric Data Model
- Complexity of GIS environment. Highly integrated. Not just a simple upgrade.



Future Plans

Continue expanding the capabilities of GIS within the organization and focus on introducing new technology, improving process workflows, web application capabilities and resources for Public use.

Goals for 2025:

- Upgrade ArcGIS Enterprise to version 11X (in Planning Phase)
- Improve processing workflows (time consuming tasks) through scripting
- Complete converting web applications built using JavaScript 3.x API to JavaScript 4.x API
- Survey 123/Dashboard for Emergency Management
- Convert existing geoprocessing tools from Arcpy scripting to custom JavaScript widgets
- Complete moving Staff Members to full use of ArcGIS Pro
- ArcGIS 3D – Potential Applications
- ArcGIS Image Server



Questions

Feel free to contact us!

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