

# GIS Data as an enterprise tool

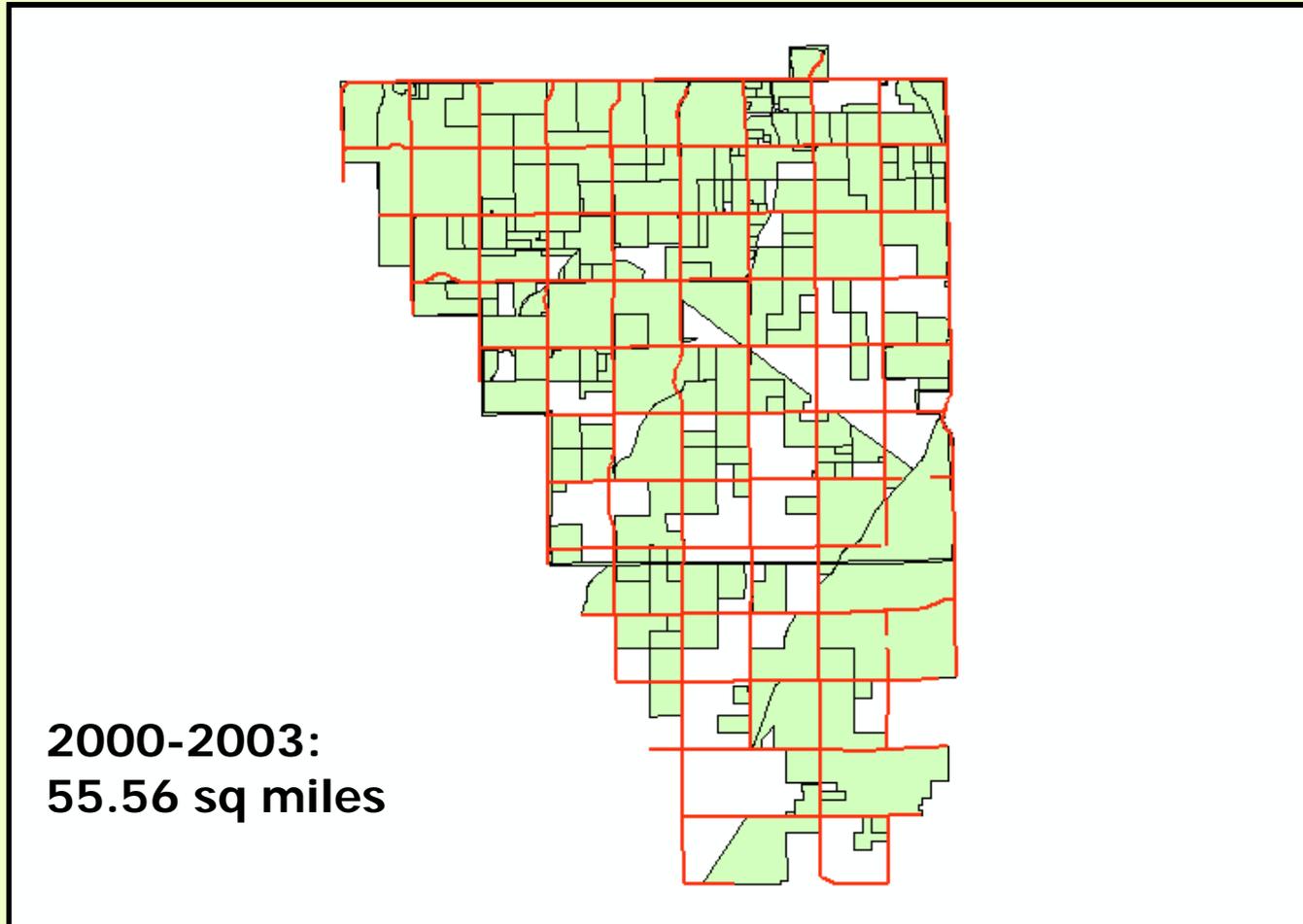


**Shawn Woolley, Technology Services Director  
Town of Gilbert**





# Gilbert's Growth, 1920 - 2003



# GIS Management System Project: Involved Department Personnel

- **Technology Services**

**GIS: 4**

**DBA Support: 2**

- **Engineering: 2**

**Project Team Total 8**



# IIMS Database Design

**Storm System**

**Water System & Reuse System**

**Right of Way System**

**Structures**

**Admin**

**Water System & Reuse System**

**Road System**

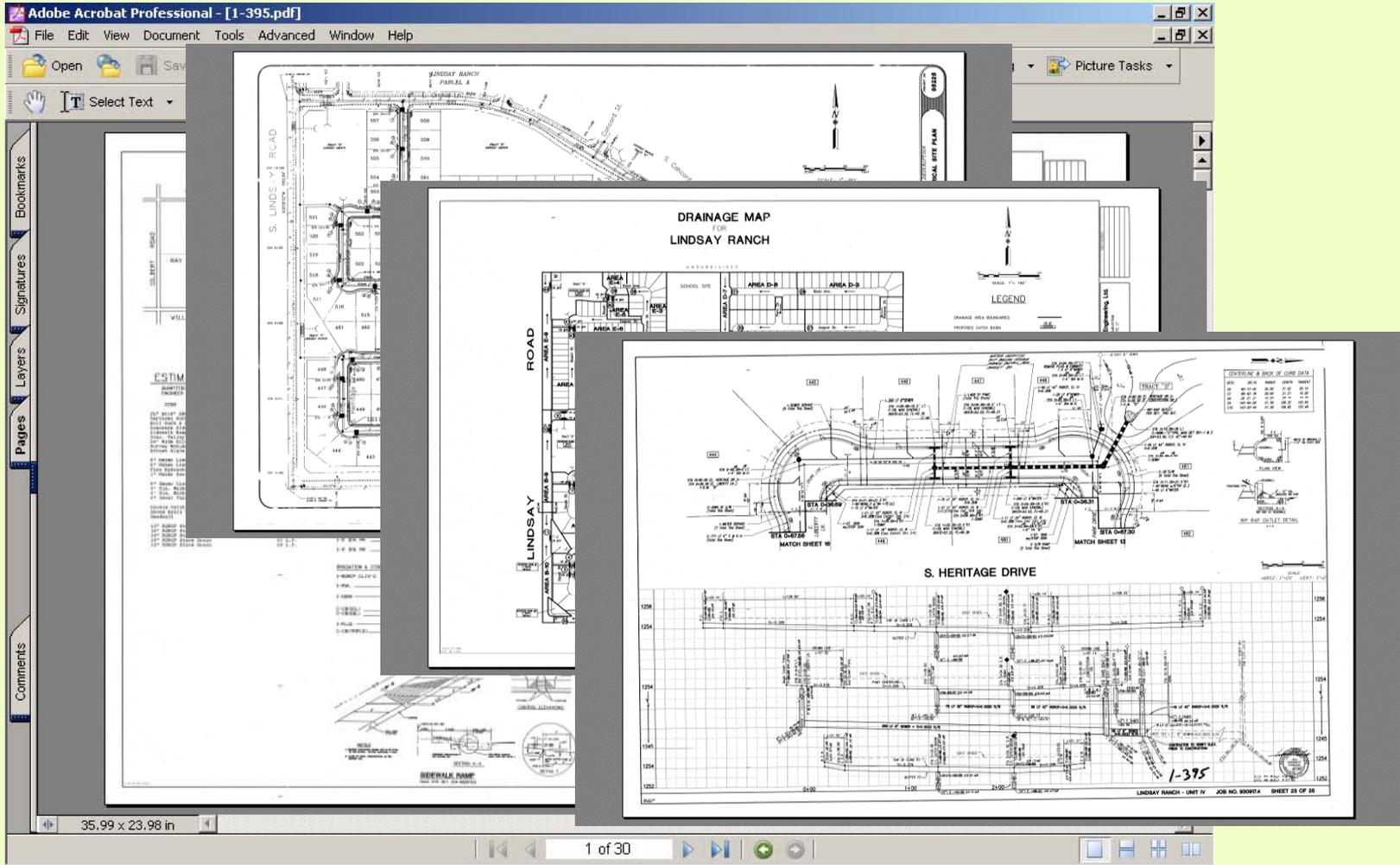
**Sewer System**

# Field Data Collection

- Field data collection was performed using resource-grade GPS receivers (Trimble XR Pro), coupled with voice-to-data ruggedized PCs

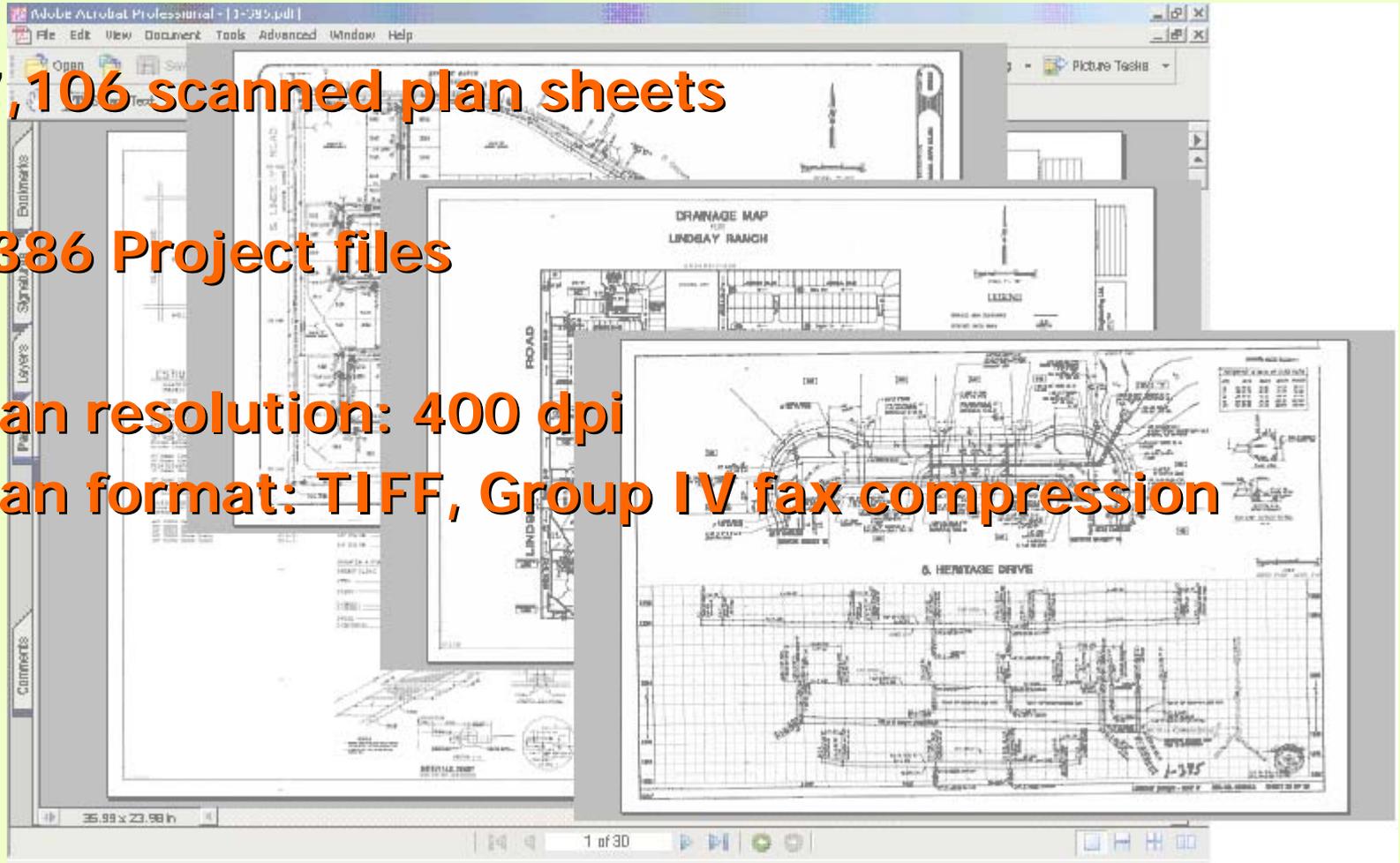


# As-Built Scanned Documents

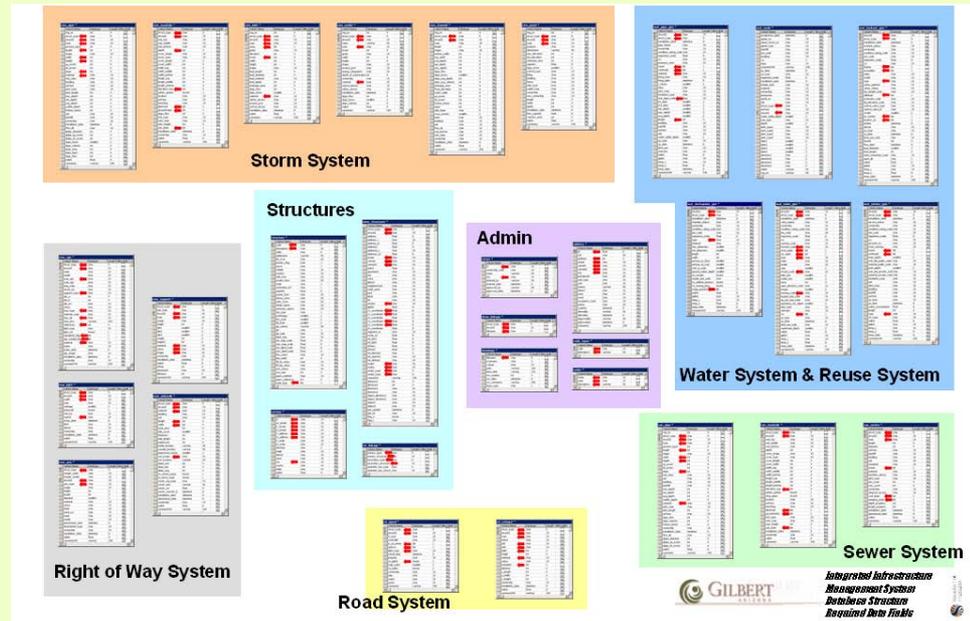
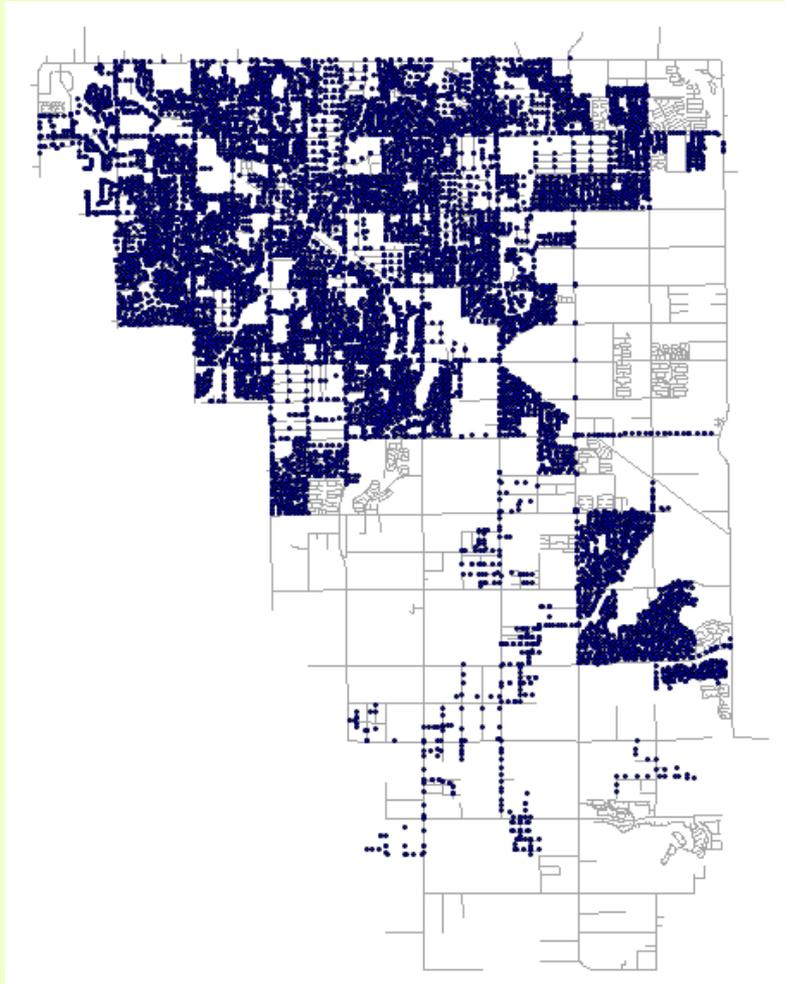


# As-Built Scanned Documents

- 27,106 scanned plan sheets
- 2,386 Project files
- Scan resolution: 400 dpi
- Scan format: TIFF, Group IV fax compression



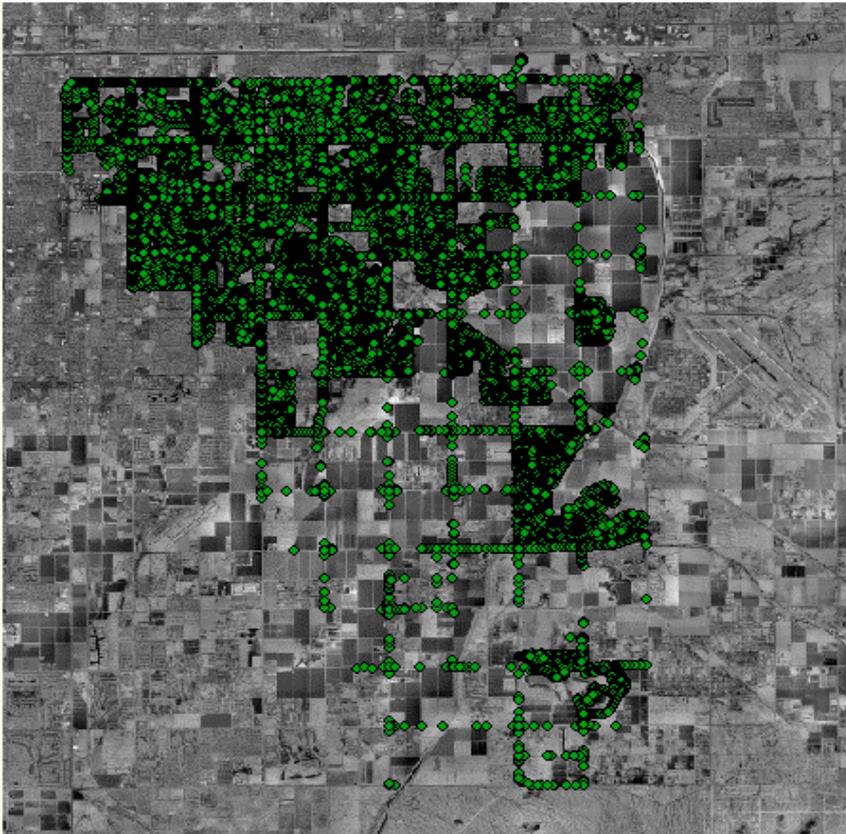
# Asset Inventory Results



## IMA Tabular Database

GIS Map Data

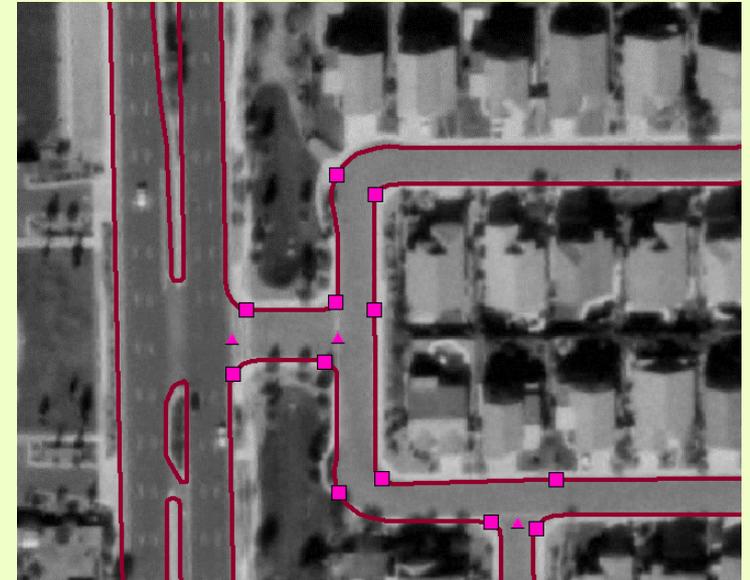
# Street Lights, Signs & Signals



25,657 supports

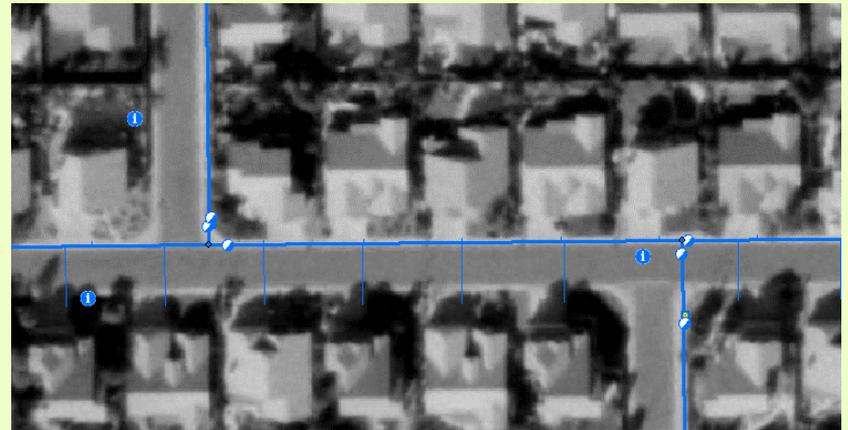
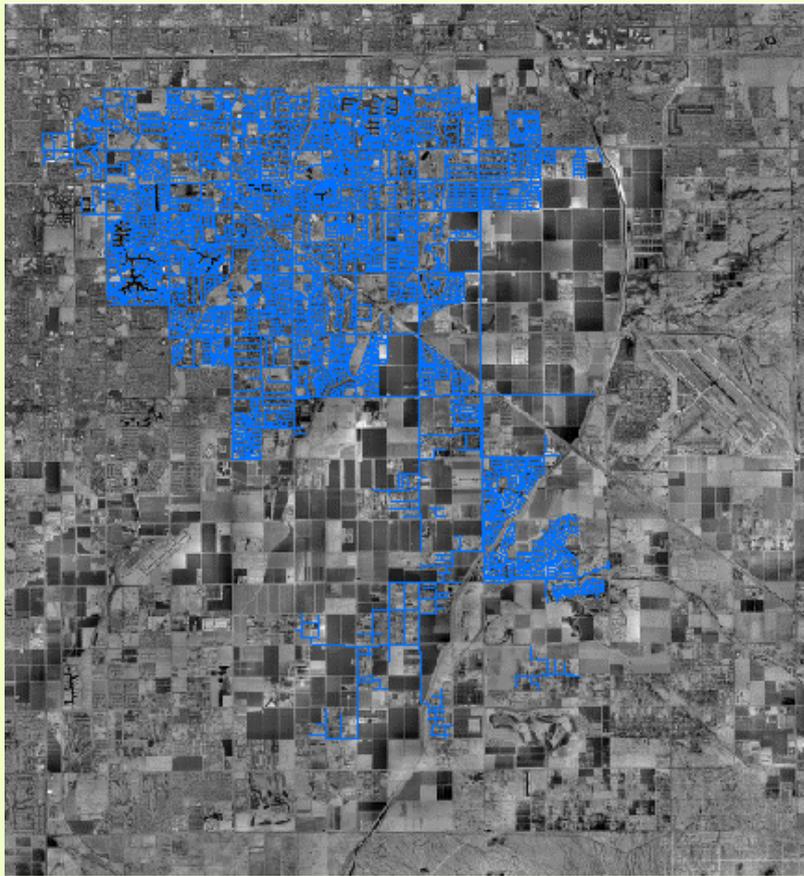


# Curb & Gutter Features



**1044 miles curb & gutter**  
**915 miles of sidewalks**

# Water System



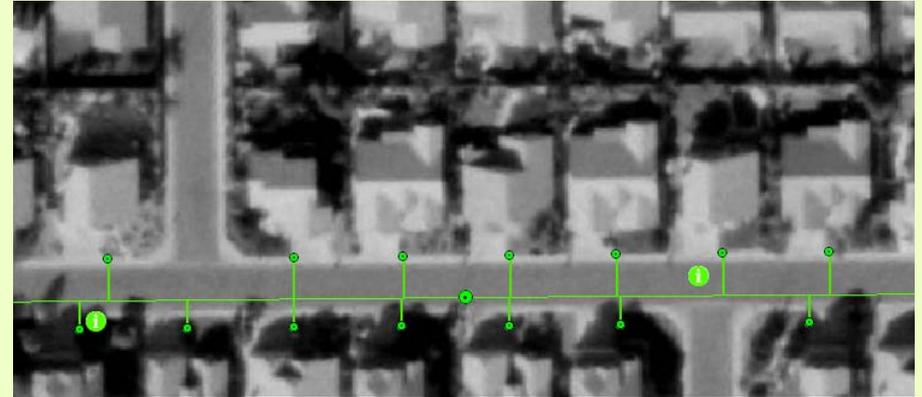
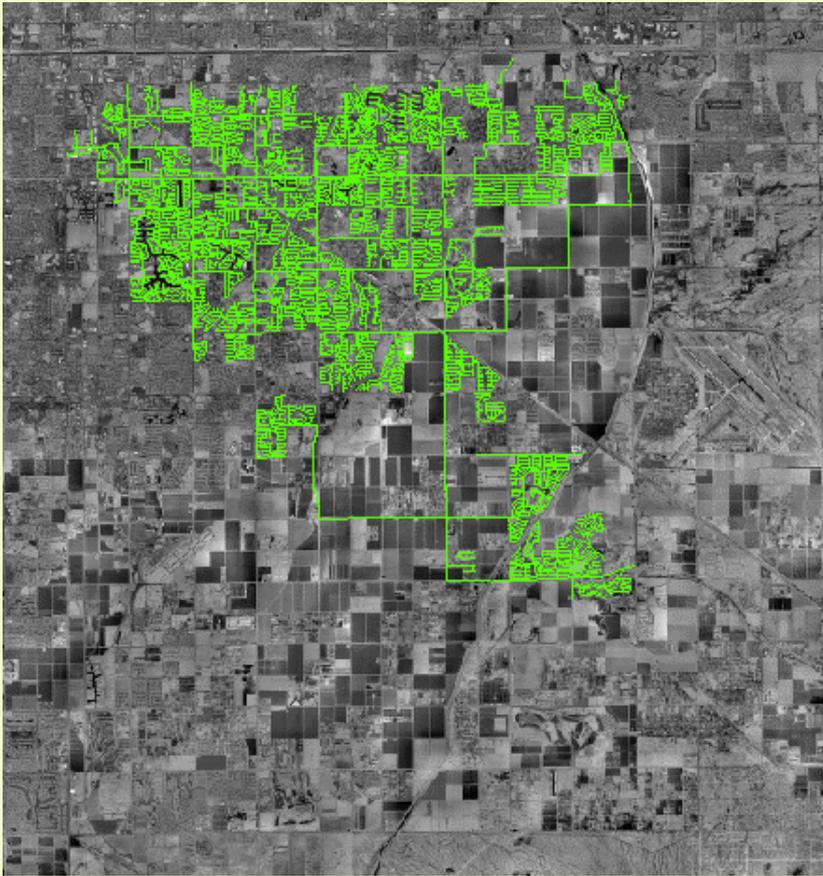
91,000+ features, 621 miles of pipe

# Water Reuse System



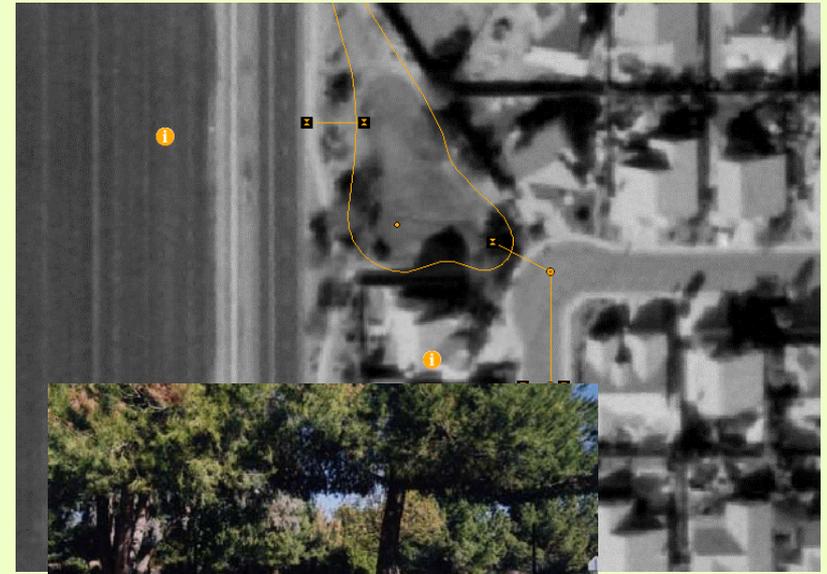
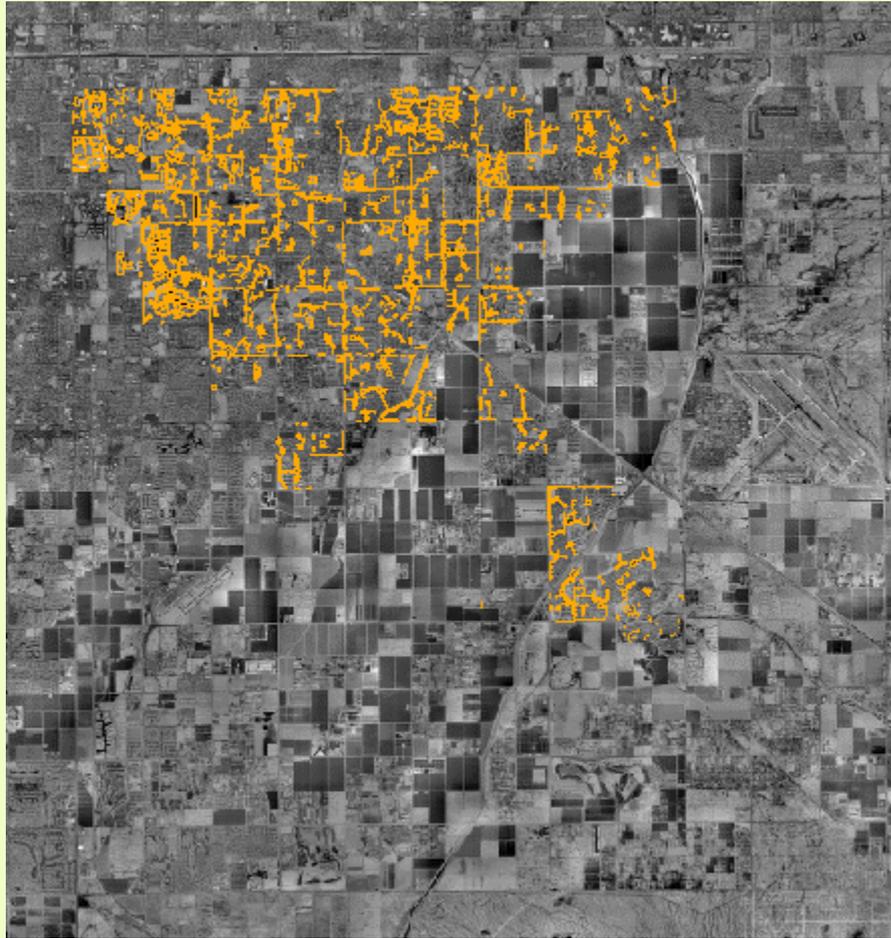
23 miles of piping

# Sanitary Sewer System



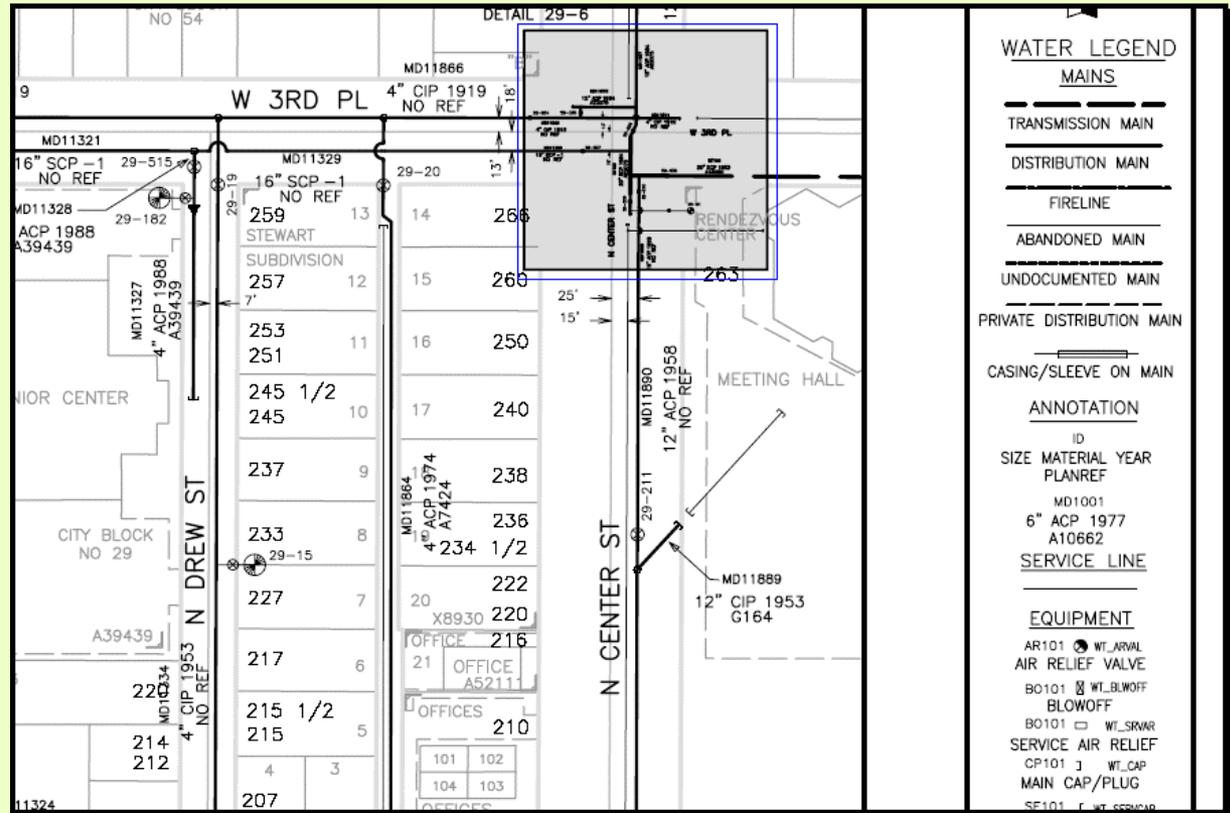
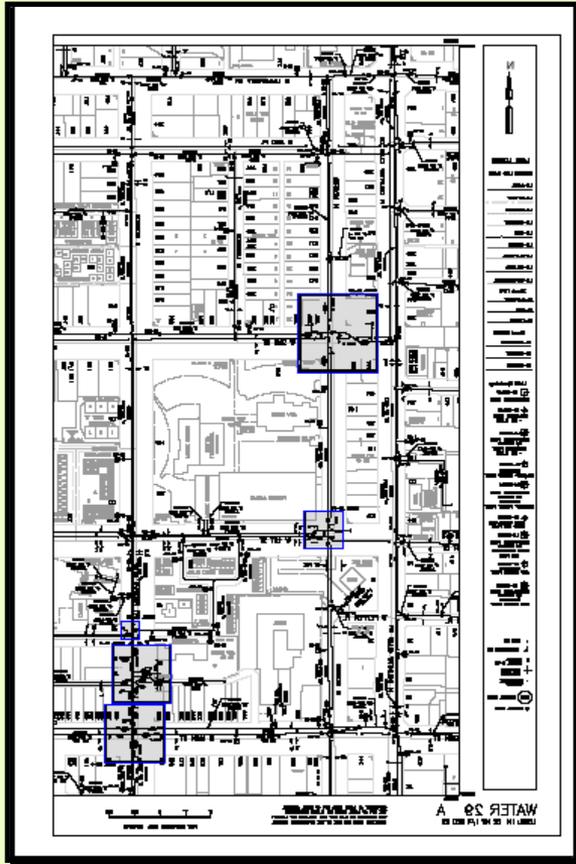
63,000+ features, 441 miles of pipe

# Stormwater System



19,000+ features

# Hardcopy Maps– Produced On Request



# Building Permit location tool

**Permits** File Edit Record Navigate Form Reports Tab Help

Sub Permits Valuation Public Comment

Main Routing Status Contractors Arch/Eng Parcels Custom Fields Fees Fee Summary Actions Routing History Conditions

Permit Type: **bstdsf** STANDARDIZED RESIDENTIAL 1 OR 2 Permit #: BLD-2004-02527

Address: 3559 E CALISTOGA DR Apt/Suite: [ ]

City: GILBERT State: AZ Zip: 85297

Permit Information

Master Permit: [ ] Routing Queue: brq2 Applied: 03/24/2004

Project: [ ] Status: issued Approved: 03/24/2004

Description: ROYCE HOMES Issued: 04/02/2004

Submitted: TIFFANY EWING 480-346-5255 Clock: Running Days: 21 Expires: 09/21/2004

Final: [ ]

Owner

Last Name: ROYCE HOMES First Name: [ ] 1855 W BASELINE RD

Phone: (480) 458-0029 STE 265

MESA AZ 85202

Owner Is Applicant?

Applicant

Last Name: ROYCE HOMES First Name: [ ] 1855 W BASELINE RD

Phone: (480) 458-0029 Cust #: 000414 265

MESA AZ 85202

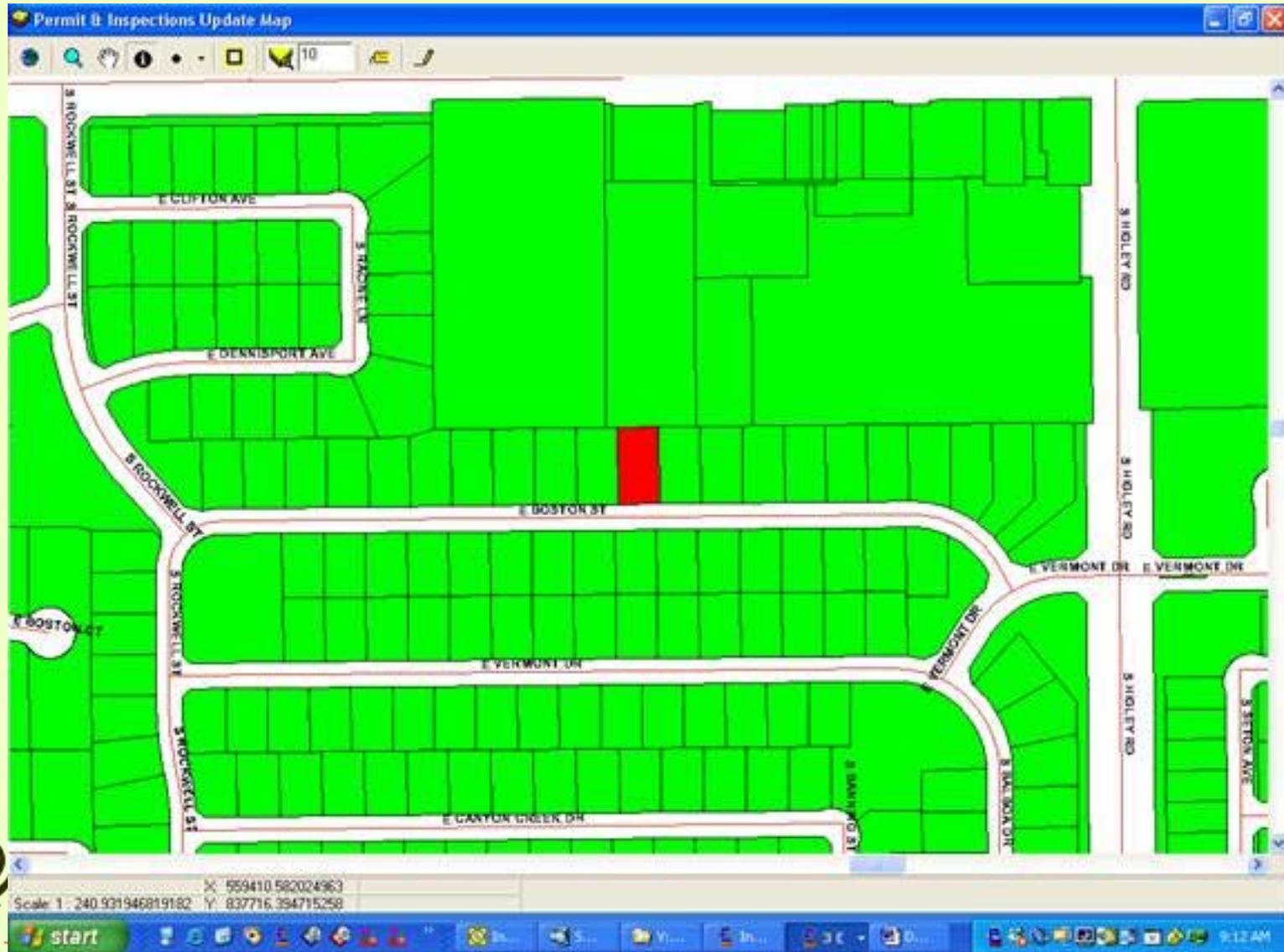
Lender

Last Name: [ ] First Name: [ ]

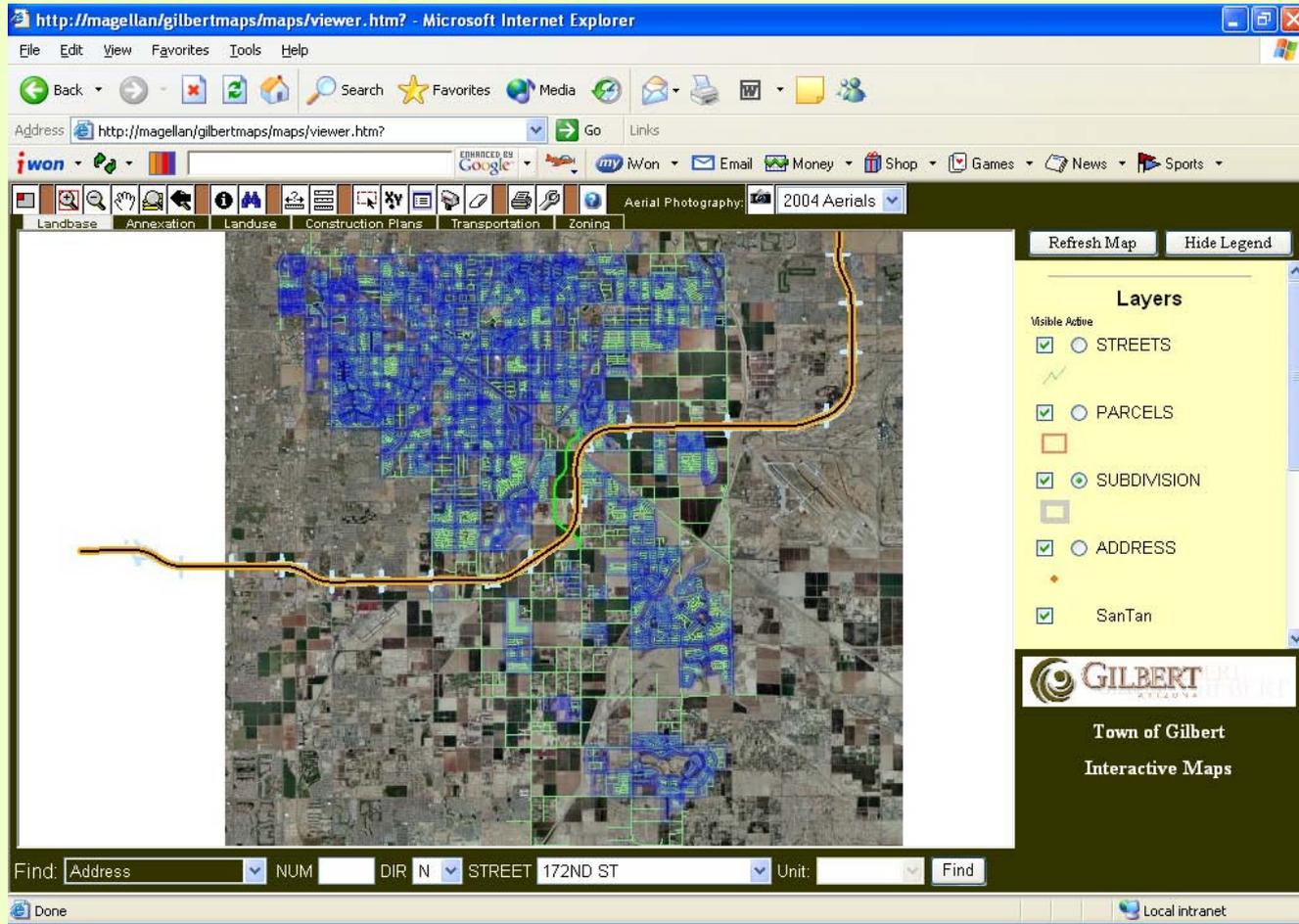
Phone: [ ]

Enter the expiration date  Record: 1 of 20

# Mapping and Parcel location Information



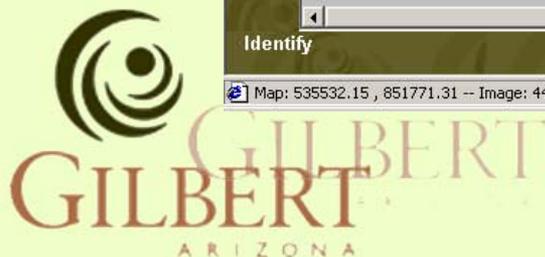
# IMS Web Browser



# Internet Browser Interface: ArcIMS

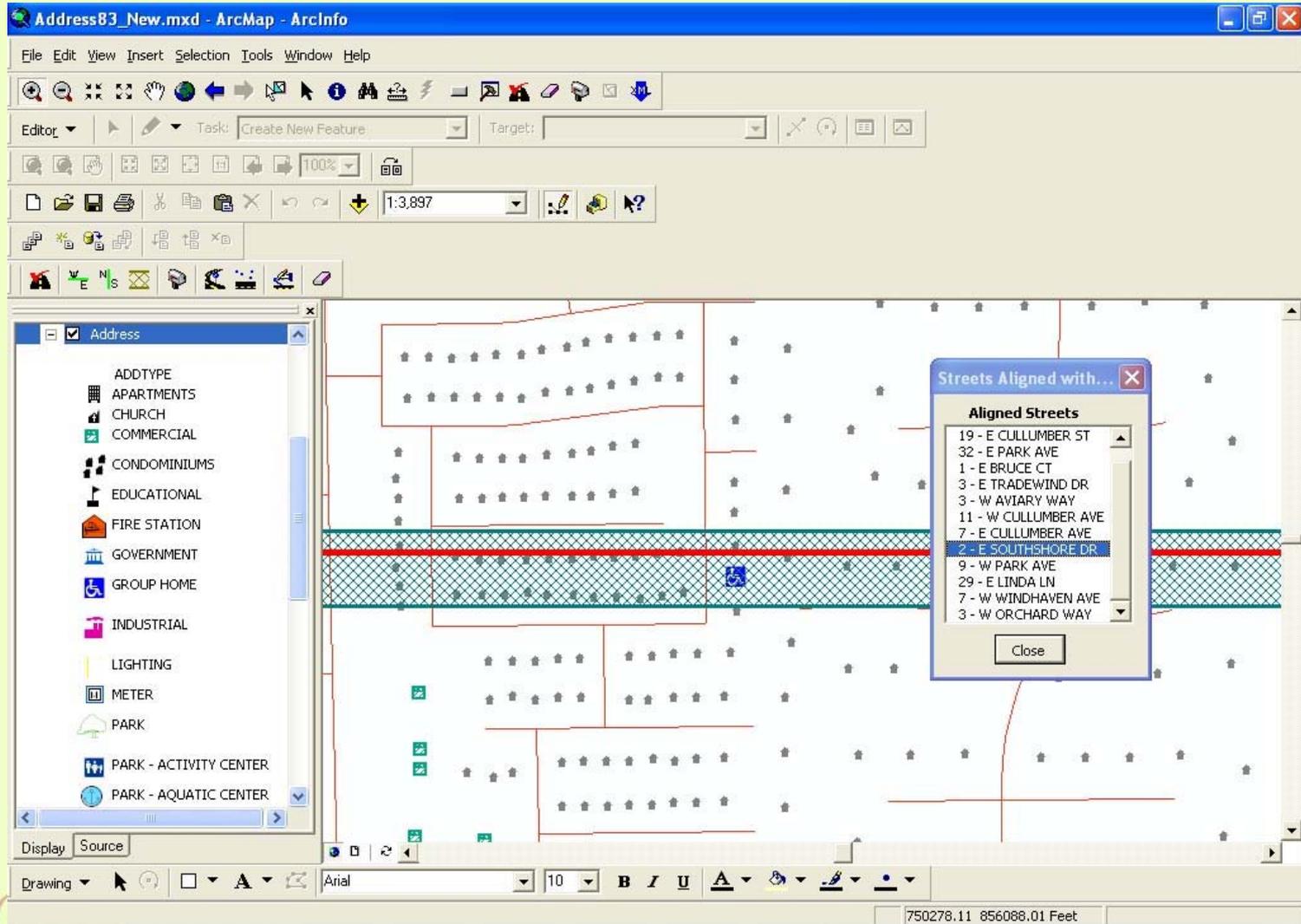
Map: 535532.15 , 851771.31 -- Image: 449 , 203 -- ScaleFactor: 14.797979387834592

Local intranet



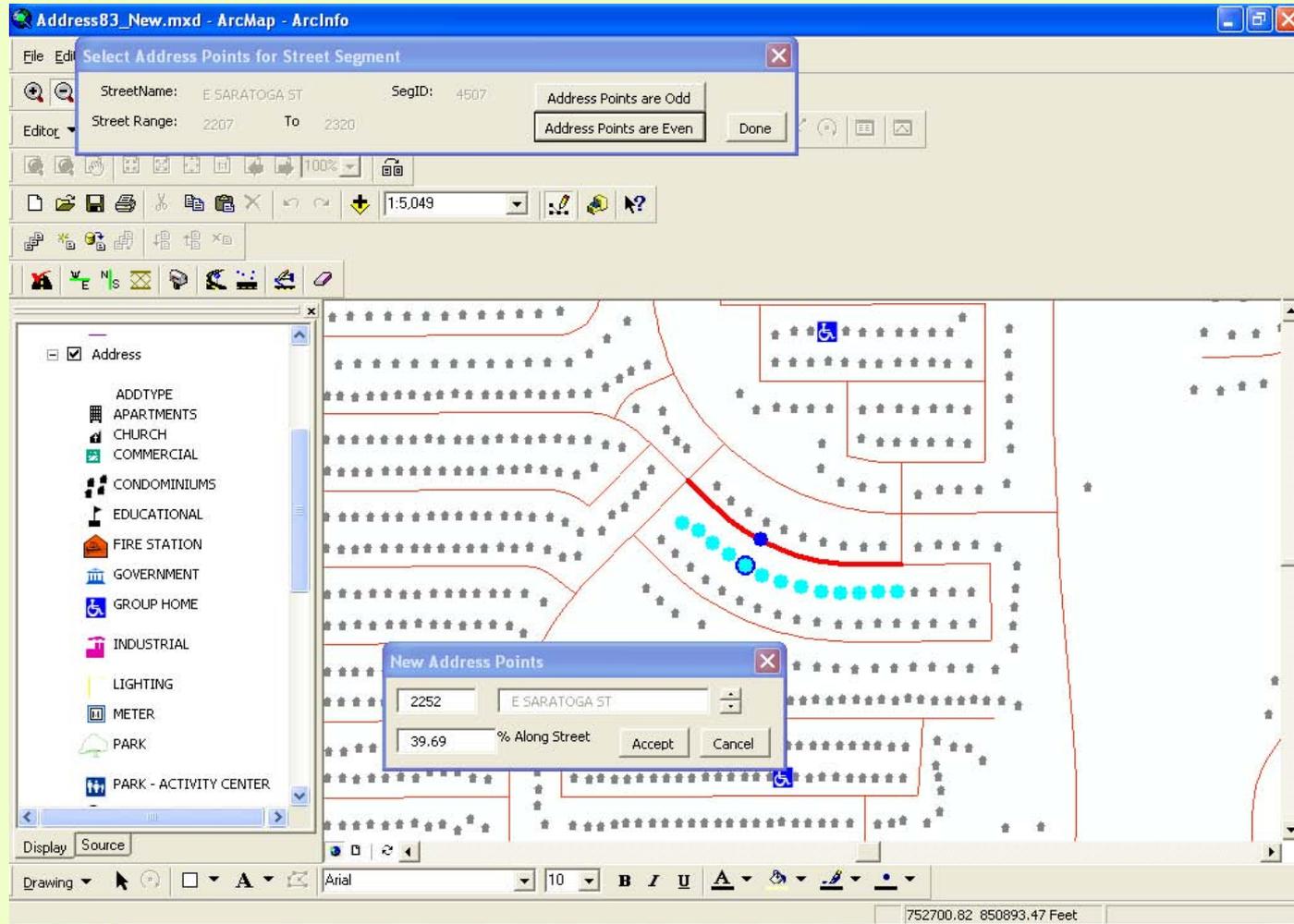
# Address alignment to grids

Alignstreets is a tool that aligns all streets through a specified range buffer



# AddressCheck

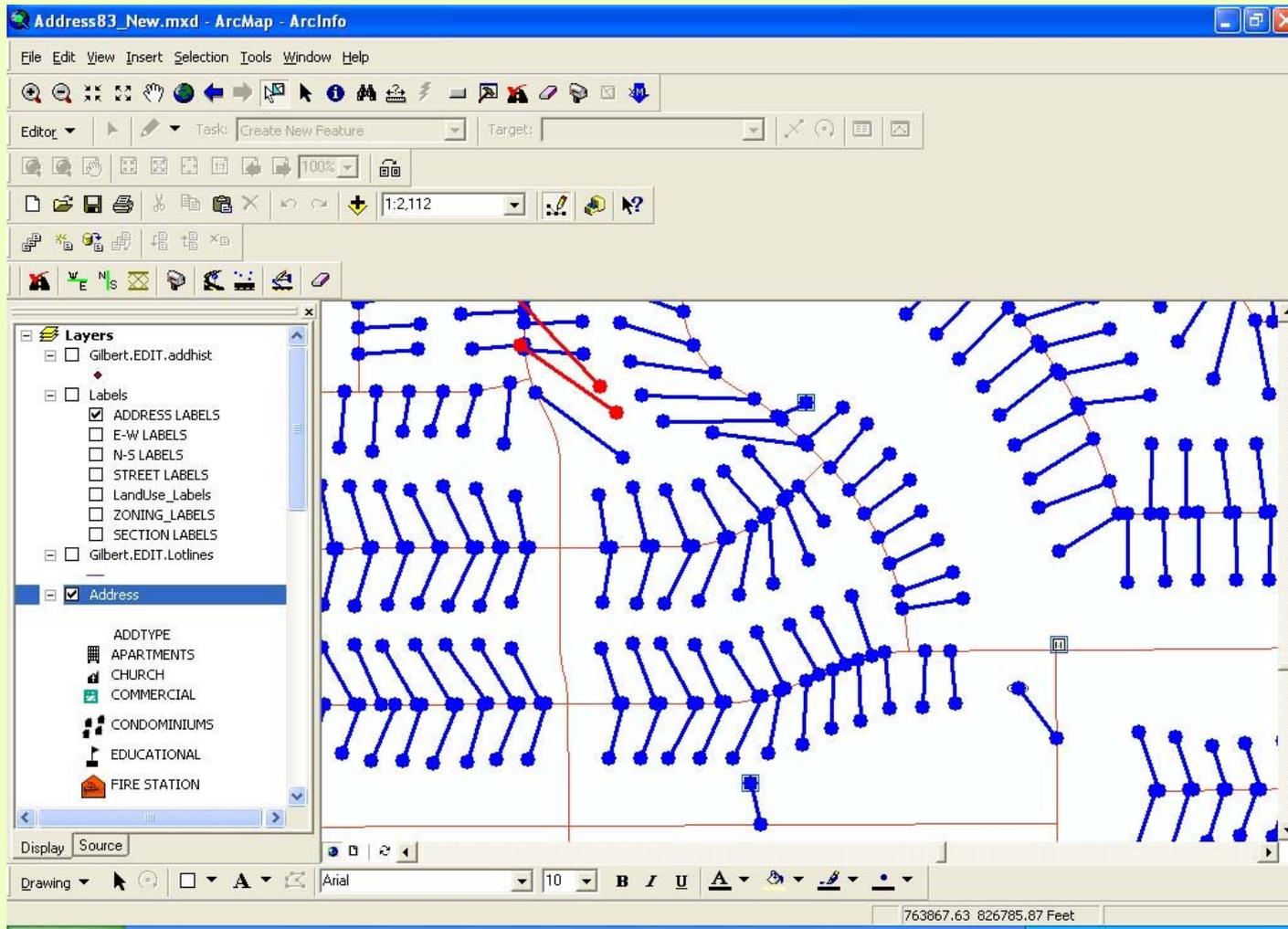
a tool that shows all streets and their relationship to a street segment



Lines in red are off of the street range

# AddressApp.bmp file

shows how the application can be used to assign address to street segments



Lines in red are off of the street range

# Contacts

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- **Jon Powell, GIS Administrator**  
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