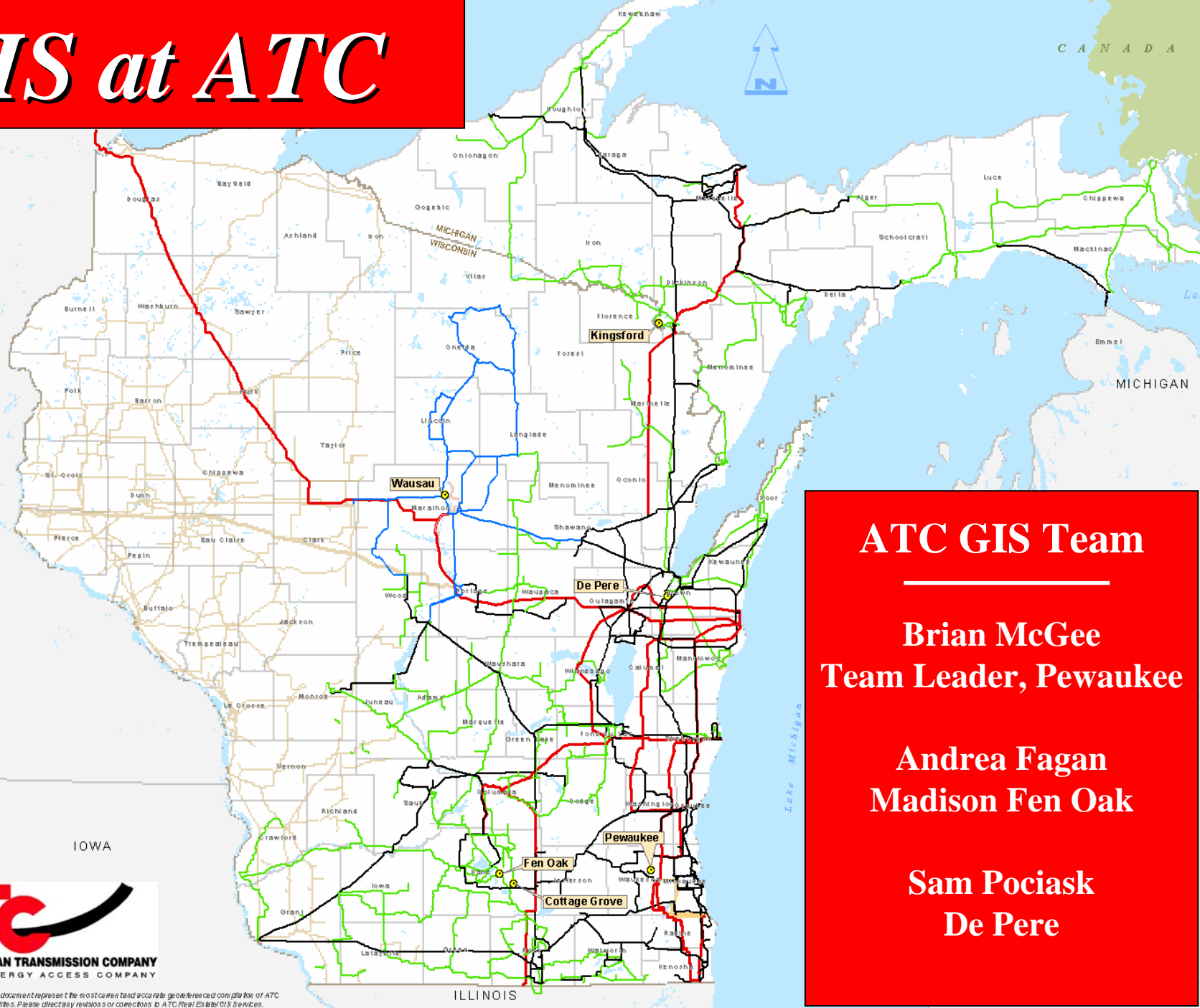


GIS at ATC



ATC GIS Team

Brian McGee
Team Leader, Pewaukee

Andrea Fagan
Madison Fen Oak

Sam Pociask
De Pere



The information presented in this map document represents the most current and accurate georeferenced compilation of ATC owned and operated transmission facilities. Please direct any revisions or corrections to ATC Real Estate GIS Services.

Revised March 2004

What is GIS?

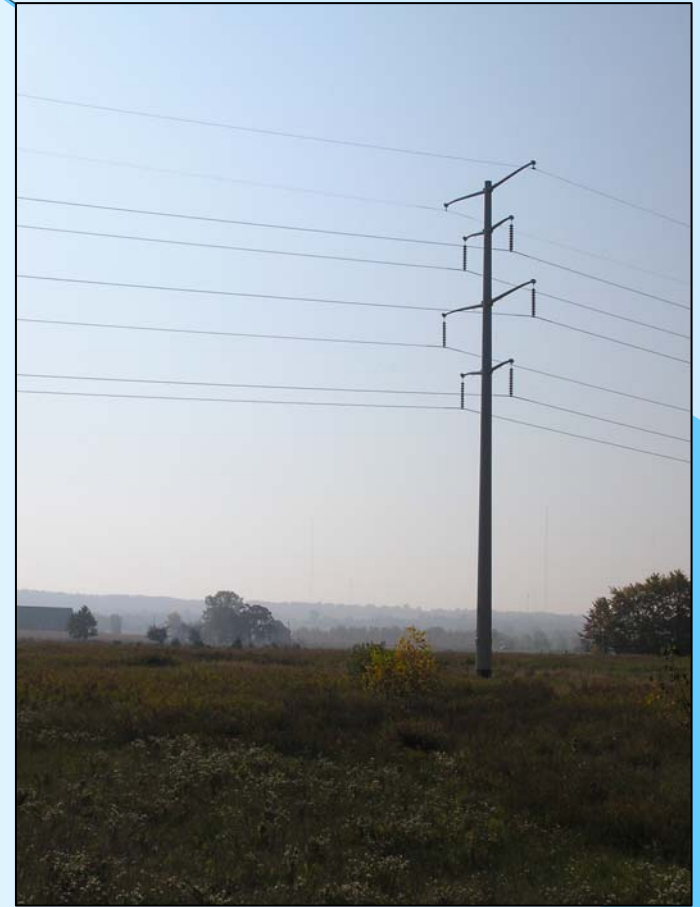
- Geospatial (Geographic) Information Systems
- Location based
 - Geographic coordinates + geometry + unique identifier
- Database + file based storage
 - 1.5 TB Oracle data storage
- Client tools used to add “map layers” to create useable map documents
- Balance of technology and “art” to create optimal map output
 - Is map message clear?
 - Too much information/too little information for map size
 - Bandwidth issues for client map tools
 - Appropriate use of various data sources

What kind of mapping do we do?

- Public Service Commission of Wisconsin
- Project Specific Field Mapping
- Patrol Area Map Books
- One Line Reference Maps
- U.P. Plat Maps/Structure Maps
- ATC System/Zone Maps
- Citrix Viewer
- Powerline Mapping Tools

Where does our data come from?

- 50+ WI Counties
 - LIOs, Planning and Zoning, Property Listers, Surveying Offices, Parks
- Cities and Villages
- Regional Planning Commissions
- State Agencies
 - WDNR, WDOT, WDOA, WISHARD
- Federal Agencies
 - FEMA, USDA/NRCS
- Commercial Sources
 - Aerial Photography, LIDAR, Satellite Imagery



ATC GIS Departmental Support **Regulatory**

- Pre-Application
- Application
 - Project area, zoning, landuse, tax parcels, orthophotography, wetlands, floodplains, topography
- Post-Application
 - Minor Route Adjustments (MRAs)

Routing and Siting Process

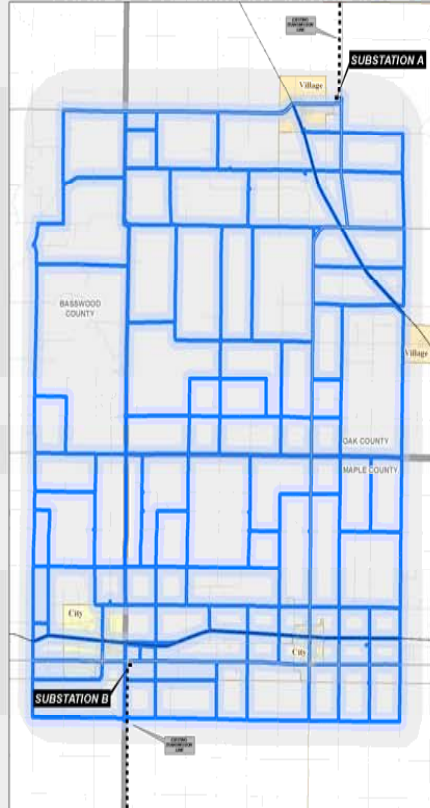
TRANSMISSION LINE ROUTING AND SITING PROCESS



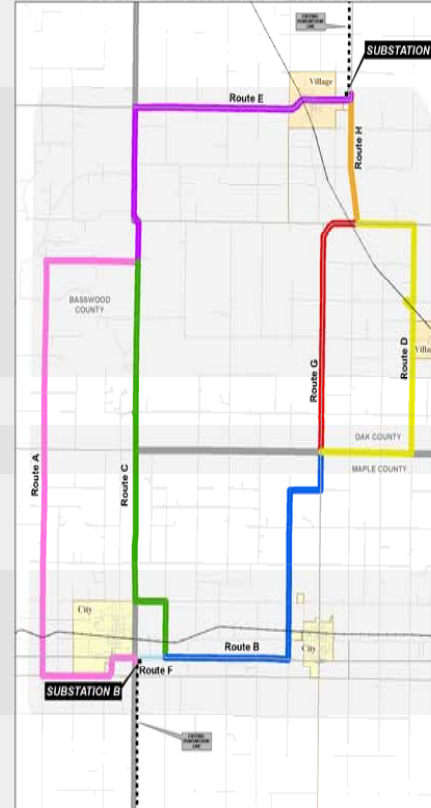
PHASE 1 - STUDY AREA



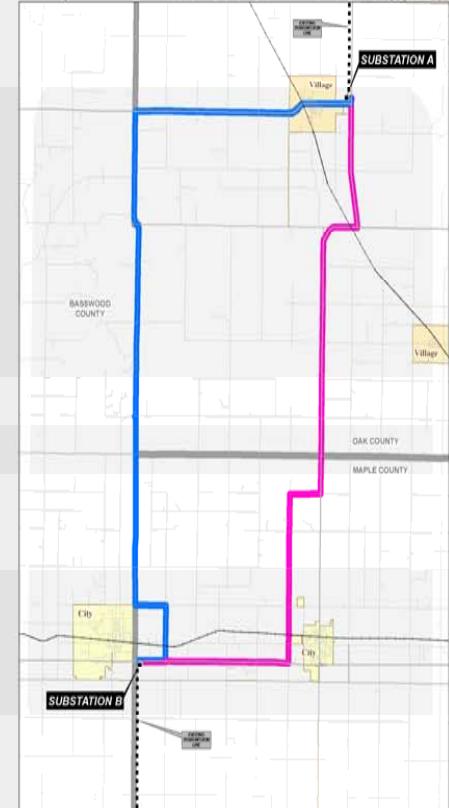
PHASE 2 - PRELIMINARY CORRIDORS



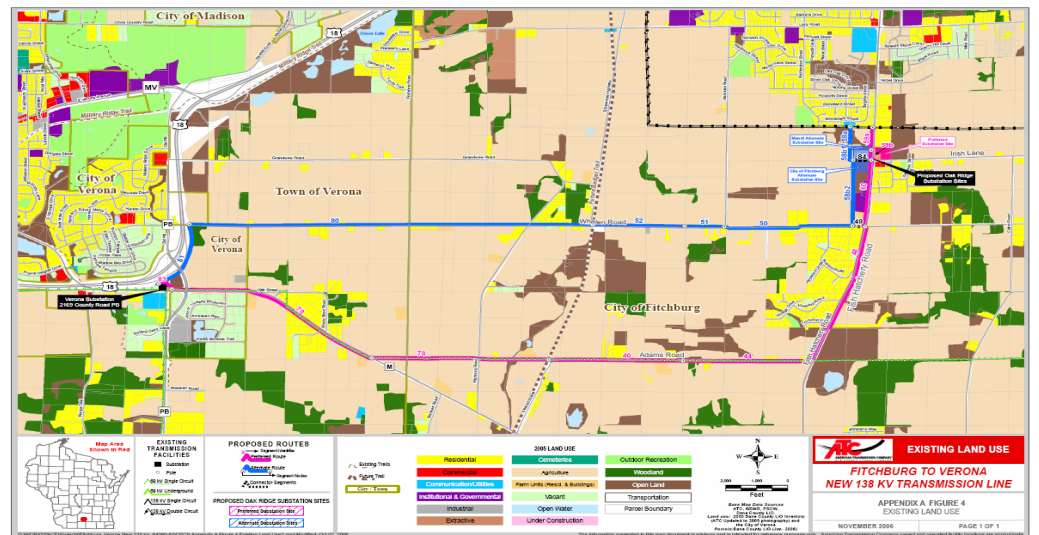
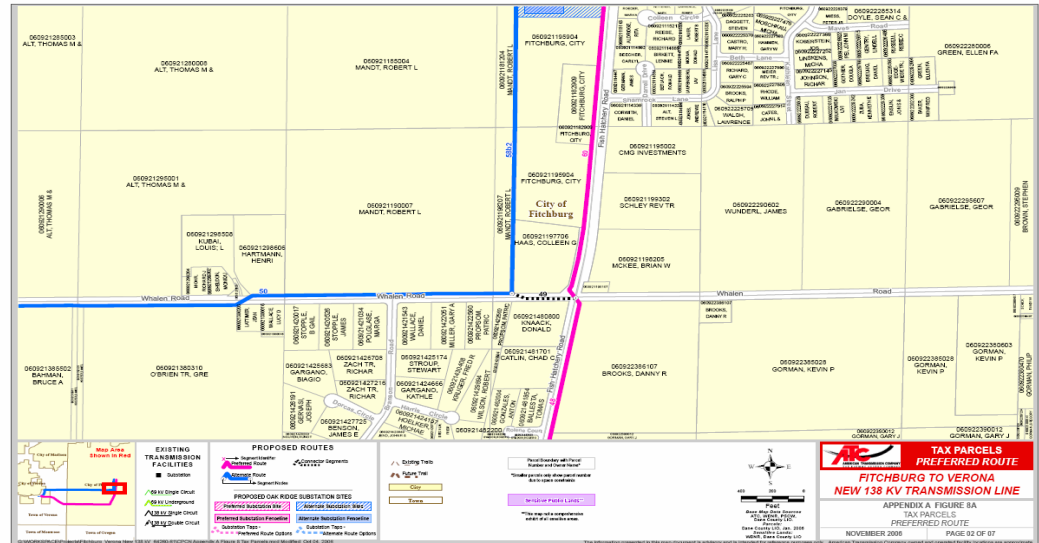
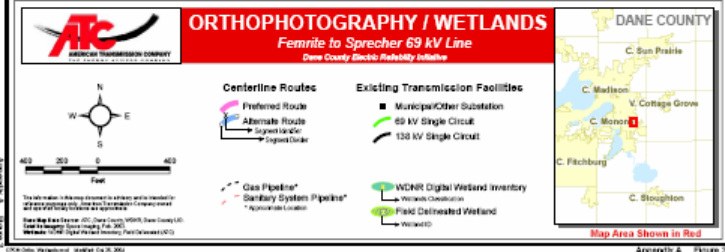
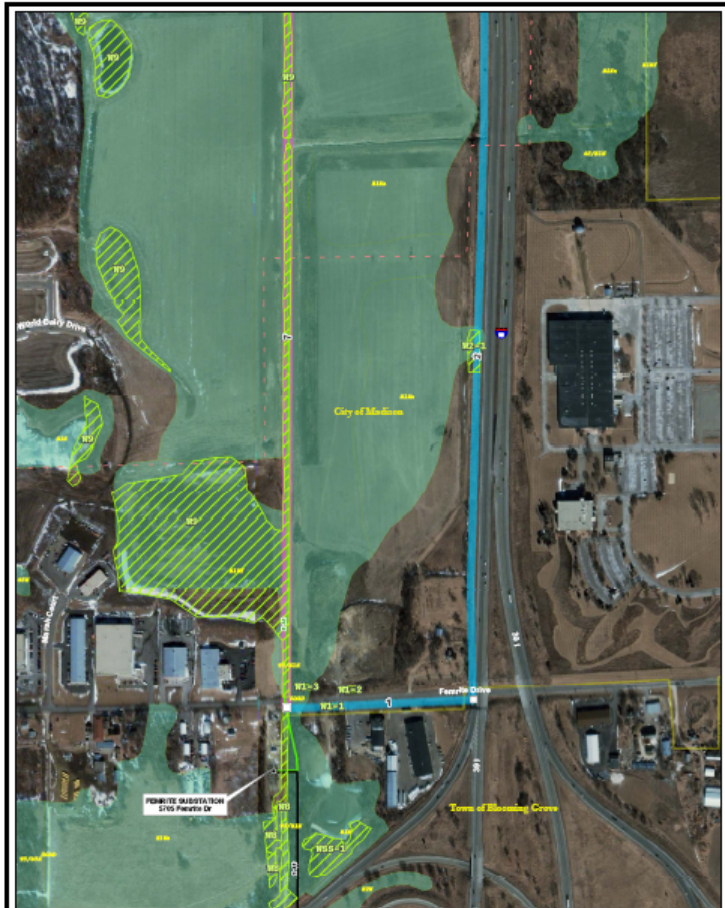
PHASE 3 - PROPOSED ROUTES



PHASE 4 - PREFERRED AND ALTERNATE ROUTES



PSCW – Application Maps



ATC GIS Departmental Support

Local Relations

- Mailing List Generation
- Maps for Stakeholder Mailings
- Open House Support
 - Map Books
 - Onsite property mapping
- Newsletter and Pamphlet Maps
- Public Official Support/Maps

ATC GIS Departmental Support

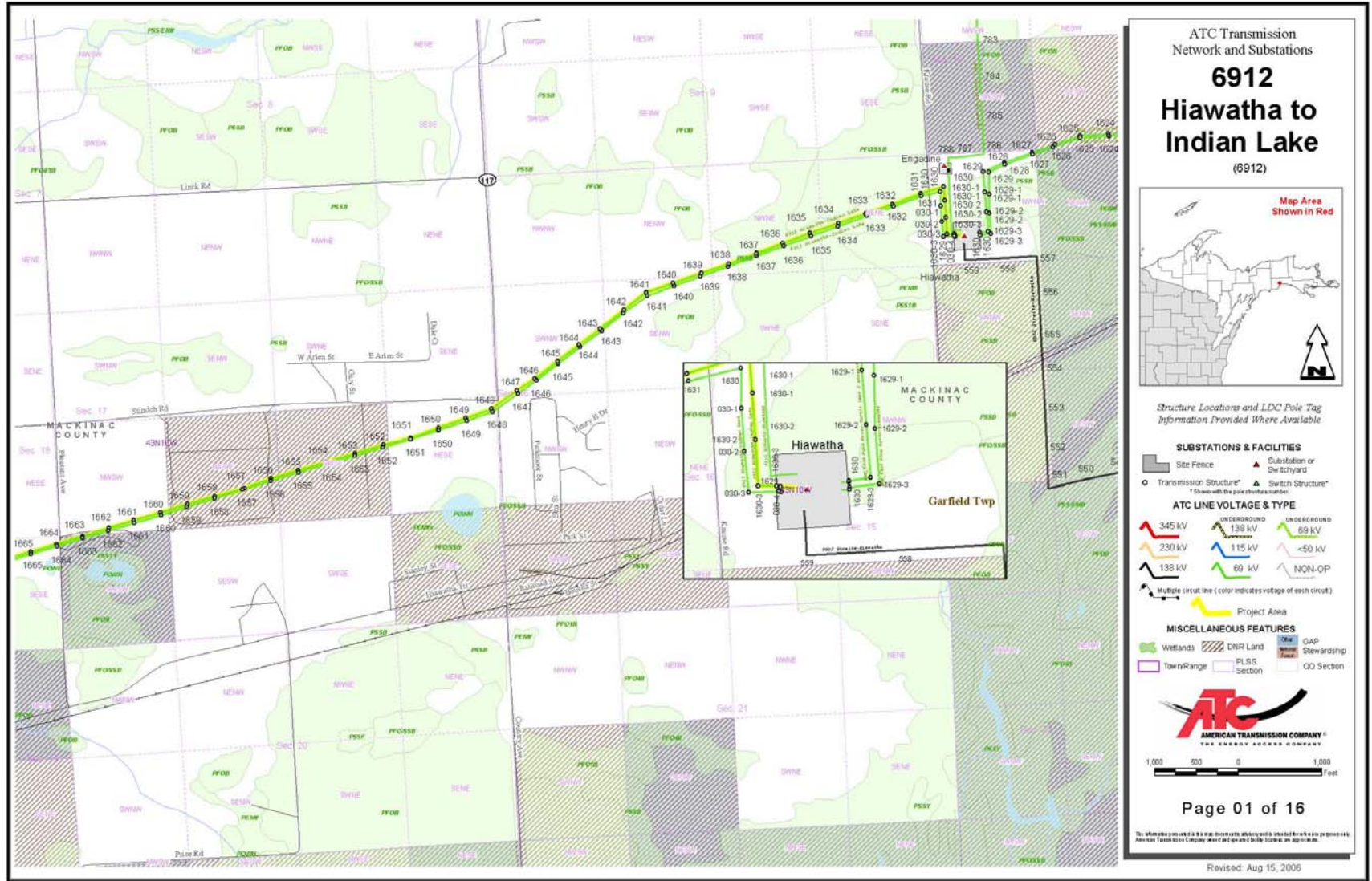
Environmental

- Green Tier (WDNR T&E Data)
- Environmental-only GIS data access
- Coordinate external environmental mapping support
- Data Set Creation
 - Lead paint poles, Karner Blue Butterfly
- Sensitivity mapping support
- Conservation easement ID
- Construction access plan maps
- CA/CPCN application data table calculations

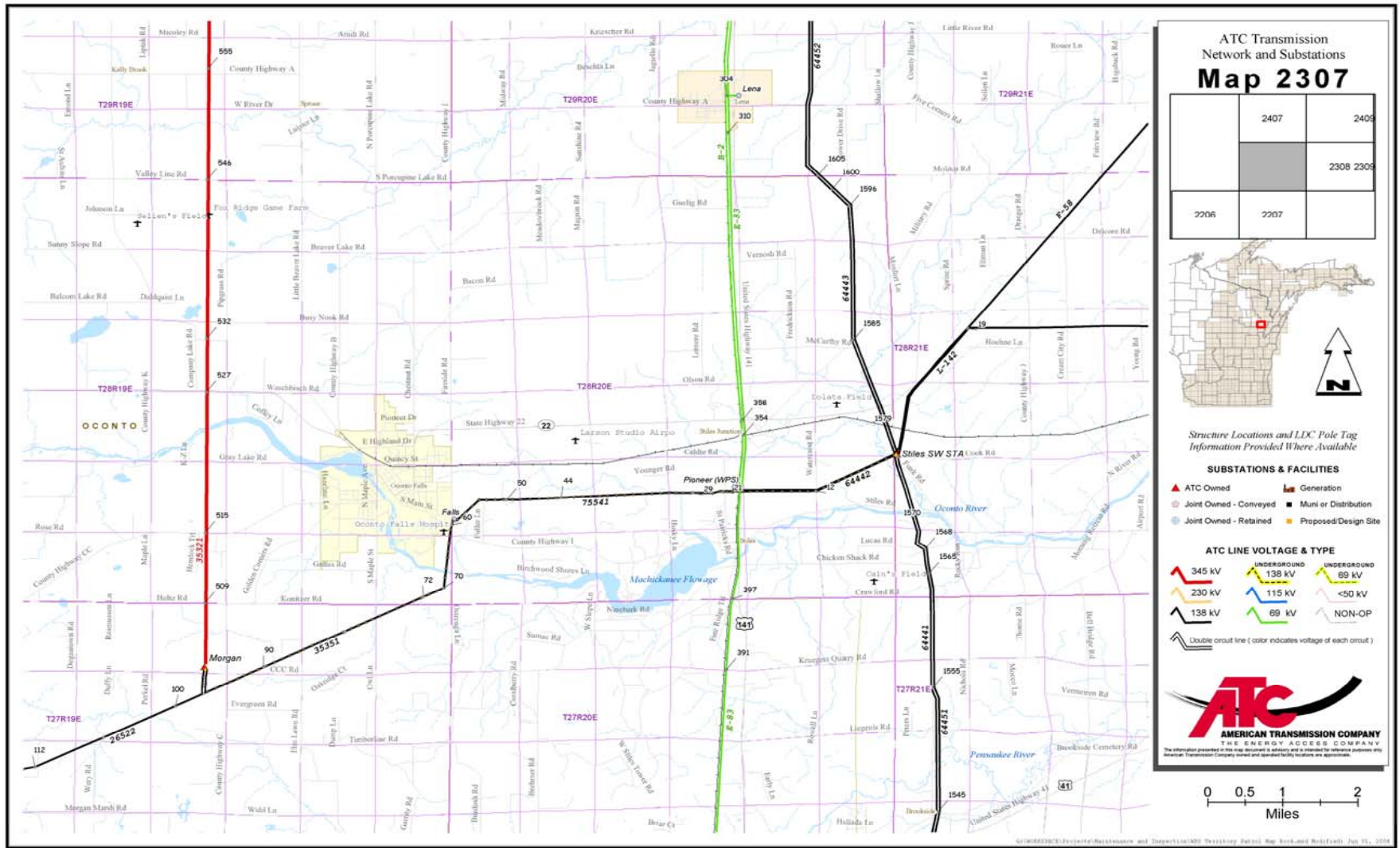
ATC GIS Departmental Support **Engineering, Maintenance & Construction**

- Single circuit map series
- Patrol area map books
- CASCADE data integration
- Distribution underbuild and crossings
- EMF mapping support
- DSD overview maps
- CAD Plan & Profile data conversion and mapping support
- Mobile GIS Mapping/GPS

Single Circuit Map Series



Patrol Area Mapbooks



ATC GIS Departmental Support

Real Estate

- BASIS integration
- Lay-down area and site mapping
- Parcel mapping
- Mailing lists
- Aerial mapping and surveying support
- Diggers hotline
- WDOT mapping support
- Tracking Tool for Real Estate ROW Acquisition Progress

Real Estate Tracking Tool

ATC AMERICAN TRANSMISSION COMPANY
ST. GERMAIN LAND SERVICE

**Gardner Park - Central Wisconsin
Morgan - Werner West
Transmission Line Projects
Parcel Data Entry Form**

Find a Record

File Name: **SCHINDEL** ATC ID Number 1: **WCL-MGN00840** Negotiator: Parcel ID Number: **028-080801743** Parcel ID Number:
Project Name: **CENTRAL TEST** Segment Name: **MORGAN** Parcel ID Number: ParcelIDNumber4:
Property Address: **MORGAN RIVER ROAD** Mortgage: ParcelIDNumber5:
Property City: **OCONTO FALLS** Property State: **WI** Property Zip: **54154** ParcelIDNumber6:
Property Civil Type: **TOWN** Property Civil Name: **MORGAN**
Property County: **OCONTO** Township: **T27N** Range: **R19E** Section: **8**
Legal Description 1: **SWSE, SECTION 8, T27N-R19E**
Legal Description 2:
Legal Description 3:

Owner 1 First Name: **MICHAEL** M. I. **A.** Last Name: **SCHINDEL** Phone No.:
Address: **1413 N ONEIDA ST** State: **WI** Zip: **54911-0000**
City: **APPLETON**

Owner 2 First Name: M. I. Last Name: Phone No.:
Address: State: Zip:
City:

Owner 3 First Name: M. I. Last Name: Phone No.:
Address: State: Zip:
City:

Owner 4 First Name: M. I. Last Name: Phone No.:
Address: State: Zip:
City:

Owner 5 First Name: M. I. Last Name: Phone No.:
Address: State: Zip:
City:

Owner 6 First Name: M. I. Last Name: Phone No.:
Address: State: Zip:
City:

Structure Information
Number Of Structures: **0**
Maximum Height Of Structures (ft):

Structure Number	Structure Height

How Acquired? ☒ Easement ☐ Court Order ☐ Avoid Property
Mortgage: ☐ Easement Strip Length (ft): **1,454.30**
Easement Strip Width (ft): **120.00**
Easement Area Acreage: **4.006**
Payment Price Per Acre: **0.00**
Total Compensation: **0.00**
Easement Factor: **0**
Acquisition Status: ☒ Easement Signed ☐ Status Not Determined

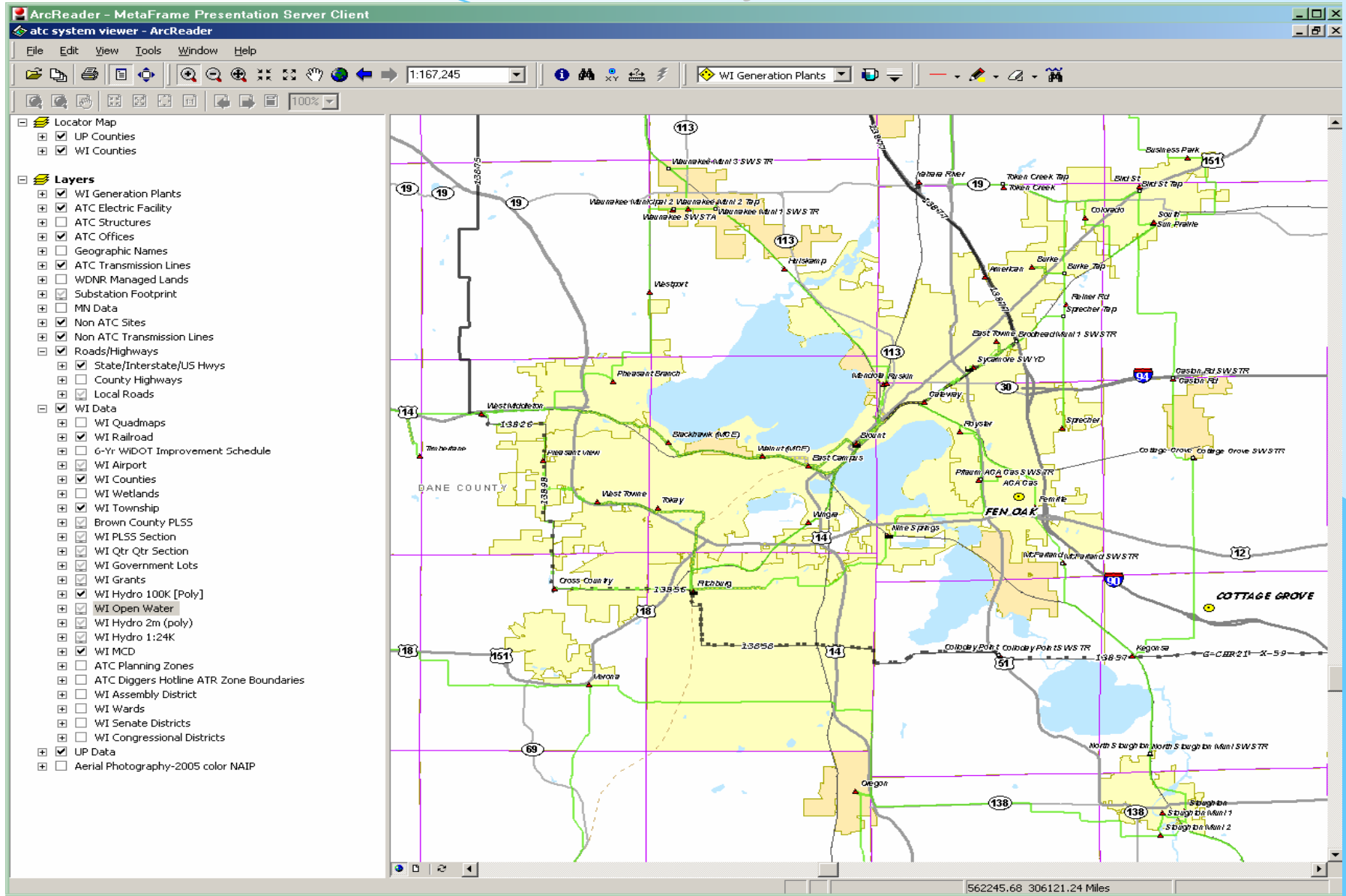
Report On Title Search: **1/13/2006**
Map Received from STS Engineering: **2/28/2006**
Plan_Profile Received from Sargent, Lundy:



ATC GIS Departmental Support **Various Other Departments**

- Legal
- Planning and Operations
- Project Management
- Corporate Communications
- Customer Relations

ATC ArcReader System Viewer



PDF Map Maker (IMS)

ATC General Viewer - Microsoft Internet Explorer provided by American Transmission Co.

File Edit View Favorites Tools Help

Address http://pwk-sv-ap1/website/ATC_IMS/Main/index.asp

Google Go

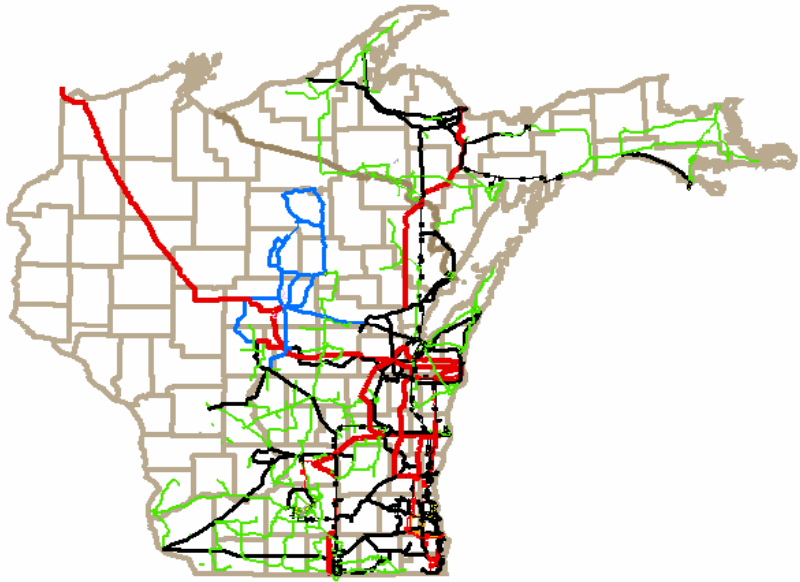
ATC American Transmission Company
GIS Data Viewer

Legend | Restart | Help

Active Layer - Symbol
Choose active layer:
ATC Transmission Lines

Layer List

- ☒ ATC System
 - ☒ ATC Transmission Lines
 - ☒ ATC Electric Facility
 - ☒ Substation Footprint
 - ☒ ATC Offices
 - ☐ ATC Planning Zones
 - ☐ ATC Structures
- ☐ Environmental
- ☒ W1 Base Map
- ☒ UP Base Map
- ☐ Other Utilities
- ☒ Miscellaneous



Map Tools

-
-
-
-
-
-
-
-
-
-
-
-
-
-
-

X,Y : None Scale : 1:1,488,143 Tool : None

Instructions


[ARCIMS USER MANUAL](#)

[SUPPORT](#)

Done Local intranet

SERT System

[Main Menu](#) | [Stakeholders](#) | [Administration](#) | Welcome Brian McGee

 **help**

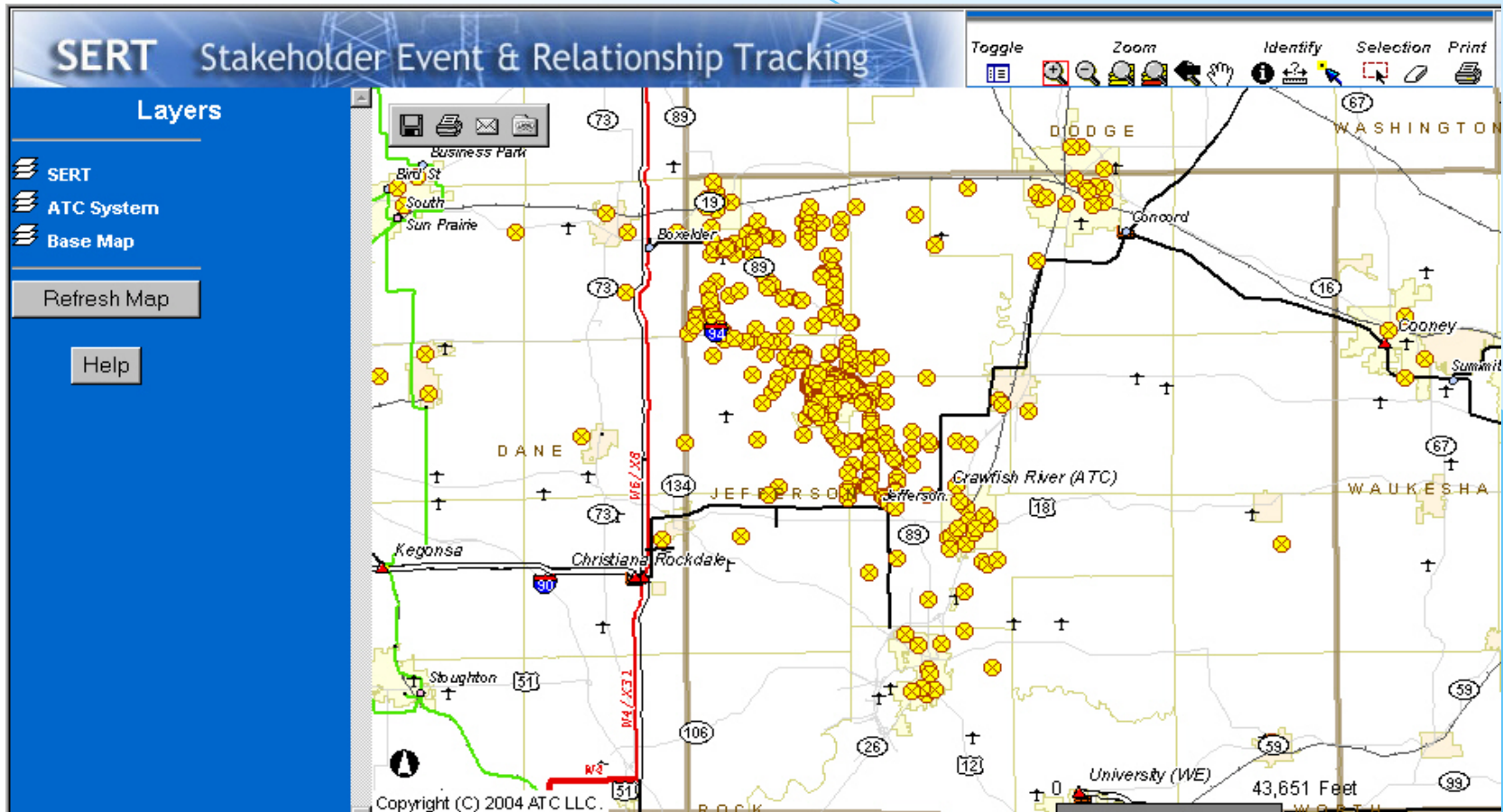
View Stakeholders

First Name: Last Name: Address: City:
 Phone: Project: Name Tag ID:
search reset fields add

	Full Name	Street Address	City	State	Home Phone	Office Phone	Cell Phone	Projects	Name Tag ID
edit	AANONSEN, AMBER	2257 County Road 00	Eland	WI				Morgan	
edit	AANONSEN, CYNTHIA	2257 County Road 00	Eland	WI				Morgan	
edit	AANONSEN, DONALD	2257 County Road 00	Eland	WI	7152532751			Morgan	
edit	AANONSEN, GERALD	Box 93	Elderon	WI				Morgan	Cecil2 1-8 0006
edit	AANONSEN, KATHLEEN	Box 93	Elderon	WI				Morgan	
edit	AASEN, DONALD	E2350 Flaata Road	Iola	WI	7154454723			Morgan	
edit	ABBOTT, ADELLA	804 Pine Street	Shawano	WI	7155244996			Morgan	
edit	ABEL, ANDREW	N4459 Cedar Rd	Pulaski	WI	7157588871			Morgan	
edit	ABEL, DIANNE	1808 Hemlock Avenue	Schofield	WI				Morgan	
edit	ABEL, DONALD	N9236 Sunset Rd	Shiocton	WI	7157523609			Morgan	
edit	ABEL, FRED	1808 Hemlock Avenue	Schofield	WI	7153590180			Morgan	
edit	ABEL, JACQULYNN	N4074 County Road F	Bonduel	WI				Morgan	
edit	ABEL, RICHARD	N4074 County Road F	Bonduel	WI	7157587671			Morgan	

- Stakeholder listing
- Cross referenced by location and project(s)

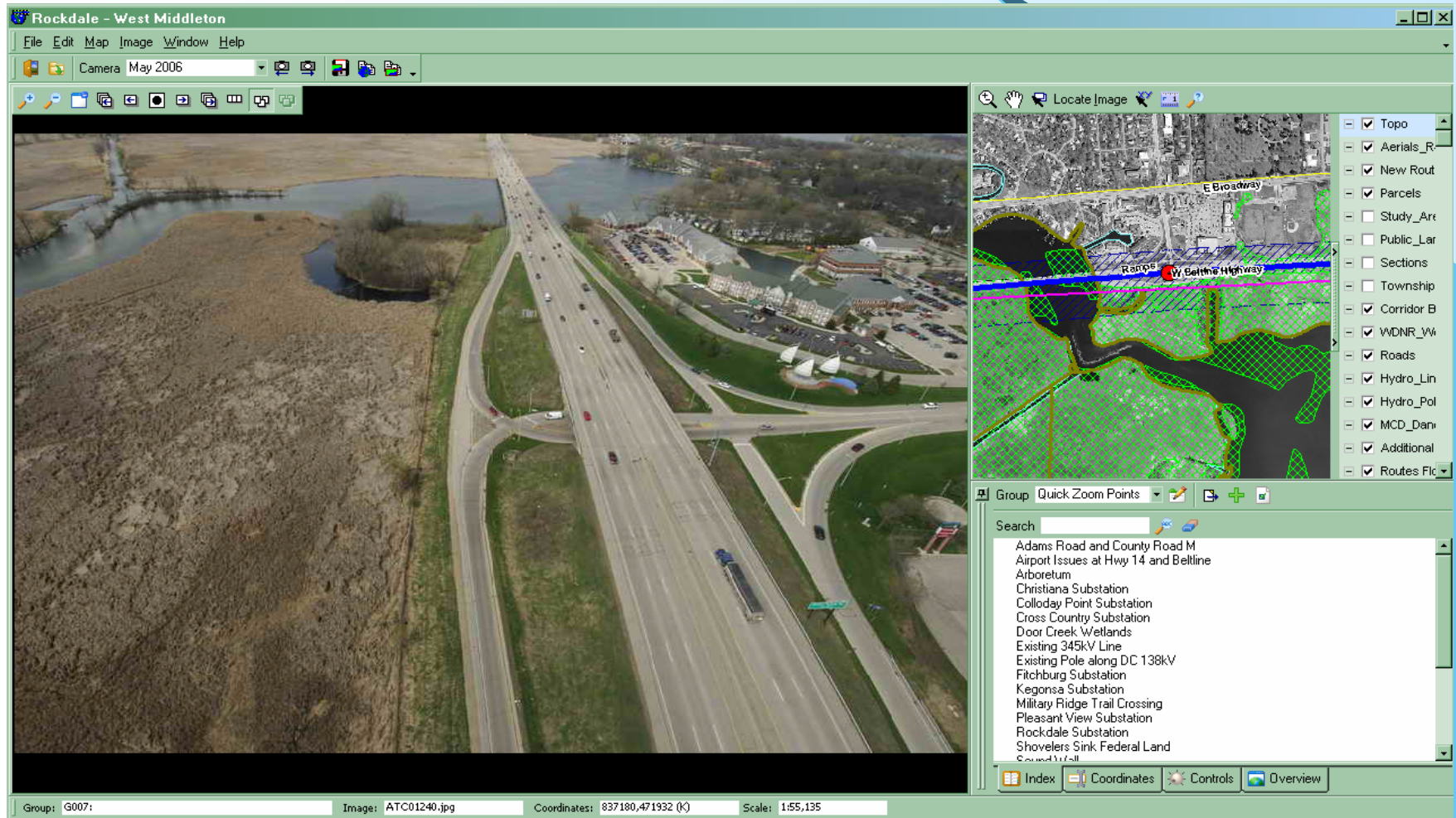
SERT System



- ArcIMS site mapping stakeholder locations

SnapMap – Major Projects

- Invaluable tool that integrates high resolution oblique photos with aerial photos and other GIS data
- Allows detailed field review without leaving the office



Project IMS site with SnapMap

Rockdale - West Middleton New 345 kV - Microsoft Internet Explorer provided by American Transmission Co.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites SnagIt

Links My MSN Yahoo! ATC RWMD IMS ATC - Rockdale ATC FDA County LIOs MapQuest Data!!! ESRI Google Expedia Orbitz madison.com Madison Guide

Address http://pwk-sv-ap1/website/Rockdale/main/index.asp Go

SERT Stakeholder Event & Relationship Tracking

Legend | Restart | Help

Active Layer - Symbol
Choose active layer:
RWMD Preliminary Corridor

Layer List

- Refresh Map
- Rockdale Project Specific
 - ☐ SERT Locations
 - ☐ Open House Round 1 Attendees
 - ☒ RWMD Preliminary Corridors Dec2005
 - ☐ SnapMap Photos
 - ☒ RWMD Nodes
 - ☒ RWMD Corridor Buffers
 - ☒ ATC Sites
 - ☒ ATC Lines
 - ☐ Pole Locations
 - ☐ Study Area Outline
 - ☒ White Study Area
 - ☐ Project Grid
- Montrose-Fitch Project
 - ☐ Montrose-Fitch Nodes
 - ☐ MF Preliminary Corridor
 - ☐ Montrose-Fitch Corridor 500 ft Buffer
- Other Utilities
- Environmental
 - ☒ Transportation
- Basemap/Planimetry
 - ☒ WI Counties
 - ☐ Open Water Outside Study Area
 - ☐ Cities/Towns Outside Study Area
 - ☐ Highways Outside Study Area
 - ☐ USGS Topo Maps
 - ☒ City/Village/Town
 - ☒ Rivers
 - ☒ Lakes

Geosight Animator - Microsoft Internet Explorer provided by American Transmission Co.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites SnagIt

Links My MSN Yahoo! ATC RWMD IMS

Address http://www.geosight.com/gs/animator.asp Go

Update Main Close

Scale : 1:4,958 Tool : ID Window

Results For Layer : SNAPMAP PHOTOS --- 3 Records Found

Log in Information -- Username: atcquest Password: atc345

CORD NO.	Air Image Links - Geosight
1 - report	Image Specific Entire Project Animated Viewer
2 - report	Image Specific Entire Project Animated Viewer
3 - report	Image Specific Entire Project Animated Viewer

Done Internet

Local intranet

Corporate GIS Initiatives

- SERT integrated project sites
- SALL and SELD system reconciliation
- LiveLink (BASIS) real estate records
- SnapMap integrated project sites

OUR GOAL: Integrate and align our geospatial data with all other asset management systems in the company

SnapMap Demo

ATC GIS Staff

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