GRANT COUNTY'S
COUNTY LAND INFORMATION PLANS
December 23, 2015

Grant County, Wisconsin
111 South Jefferson St, PO Box 391 | Lancaster, WI 53813
www.co.grant.wi.gov

CONTENTS

CONTENTS 1

EXECUTIVE SUMMARY 2

1 INTRODUCTION 3

2 FOUNDATIONAL ELEMENTS 5

PLSS 5

Parcel Mapping 6

LiDAR and Other Elevation Data 8

Orthoimagery 8

Address Points and Street Centerlines 9

Land Use 10

Zoning 11

Administrative Boundaries 12

Other Layers 13

3 LAND INFORMATION SYSTEM 15

4 CURRENT & FUTURE PROJECTS 19

Project Plan to Achieve Searchable Format (Benchmarks 1 & 2) 19

Project Plan for Parcel Completion (Benchmark 3) 19

Project Plan for PLSS (Benchmark 4) 20

Project Plan for Property Address Points 21

Project Plan for MSAG 20

Project Plan for Developing Shoreland Zoning Layer 21

Project Plan for Geolocating Culverts, Bridges & Driveways 20

Project Plan for Geolocating CSMs and Plats of Survey 20

Project Plan for Centralizing Assessor Data 23

Project Plan for Special Assessment Database 20

Project Plan for Locating Structures in the Floodplain 24

Project Plan for Scanning/Indexing Expansion 25

5 OTHER PROJECT SECTIONS 20

EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Grant County prepared by the land information officer (LIO) and the land information council. By Wisconsin statute, "a countywide plan for land records modernization" is required for participation in the Wisconsin Land Information Program (WLIP). The purpose of this document is twofold: 1) to meet WLIP funding eligibility requirements necessary for receiving grants and retaining fees for land information, and 2) to plan for county land records modernization in order to improve the efficiency of government and provide improved government services to businesses and county residents.

WLIP Background. The WLIP, administered by the Wisconsin Department of Administration, is funded by document recording fees collected by register of deeds at the county-level. In 2015, Grant County received $41,296 in WLIP grants and retained a total of $58,184 in local register of deeds document recording fees for land information. Beginning in 2016, WLIP Strategic Initiative grants are projected to increase the county land budget by $50k per year.

This plan lays out how funds from grants and retained fees will be prioritized. However, as county budgets are determined on an annual basis with county board approval, this plan provides estimated figures that are subject to change and are designed to serve planning purposes only.

Land Information in Grant County. Land information is central to county operations, as many essential services rely on accurate and up-to-date geospatial data and land records. A countywide land information system supports economic development, emergency planning and response, and a host of other citizen services. The Grant County land information system integrates and enables efficient access to information that describes the physical characteristics of land, as well as the property boundaries attributable to landowners.

Mission of the Land Information Office. Grant County's Land Information Office is looking to gain governmental efficiencies by broadening the utilization of GIS, improving parcel mapping accuracy, and providing efficient and high quality services to its residents and businesses.

Land Information Office Projects. To realize this mission, Grant County will work toward:

1. **Achieving searchable format (benchmarks 1 & 2)**
2. **Parcel completion (benchmark 3)**
3. **PLSS remonumentation & coordinate acquisition (benchmark 4)**
4. **Property address points**
5. **Developing shoreland zoning layer**

The remainder of this document provides more details on Grant County and the WLIP, summarizes current and future land information projects, and reviews the county's status in completion and maintenance of the WLIP map data layers known as Foundational Elements.

1 INTRODUCTION

In 1989, a public funding mechanism was created whereby a portion of county register of deeds document-recording fees collected from real estate transactions would be devoted to land information through a new program called the Wisconsin Land Information Program (WLIP). The purpose of the land information plan is to meet WLIP requirements and aid in county planning for land records modernization.

LAND INFORMATION

Any physical, legal, economic or environmental information or characteristics concerning land, water, groundwater, subsurface resources or air in this state.

'Land information' includes information relating to topography, soil, soil erosion, geology, minerals, vegetation, land cover, wildlife, associated natural resources, land ownership, land use, land use controls and restrictions, jurisdictional boundaries, tax assessment, land value, land survey records and references, geodetic control networks, aerial photographs, maps, planimetric data, remote sensing data, historic and prehistoric sites and economic projections.

– Wis. Stats. section 16.967(1)(b)

The WLIP and the Land Information Plan Requirement

In order to participate in the WLIP, counties must meet certain requirements:

- Update the county's land information plan at least every three years
- Meet with the county land information council to review expenditures, policies, and priorities of the land information office at least once per year
- Report on expenditure activities each year
- Submit detailed applications for WLIP grants
- Complete the annual WLIP survey
- Subscribe to DOA's land information listserv
- Meet a June 30, 2017 deadline to post certain types of parcel information online

Any grants received and fees retained for land information through the WLIP must be spent consistent with the county land information plan. The *Uniform Instructions for Preparing County Land Information Plans* are designed as a template, but leave flexibility as to how counties may choose to address the minimum plan components. The county is able to include as much detail as necessary to make the planning process useful at the local level.

Act 20 and the Statewide Parcel Map Initiative

A major development for the WLIP occurred in 2013 through the state budget bill, known as Act 20. It directed the Department of Administration (DOA) to create a statewide digital parcel map in coordination with counties.

Act 20 also provided more revenue for WLIP grants, specifically for the improvement of local parcel datasets. The WLIP is dedicated to helping counties meet the goals of Act 20 and has proposed that funding be made available to counties in the form of Strategic Initiative grants to be prioritized for the purposes of parcel dataset improvement. For Strategic Initiative grant eligibility, counties will be required to apply WLIP funding toward achieving certain statewide objectives, specified in the form of "benchmarks." Benchmarks for parcel data—standards or achievement levels on data quality or completeness—are determined through a participatory planning process and will be detailed in future WLIP grant applications.

County land information plans were initially updated every five years. However, as a result of Act 20, counties must update and submit their plans to DOA for approval every three years. Thus, the minimum planning horizon for these documents is three years. The plan may incorporate a planning horizon that is longer if the needs and priorities of the participants warrant.

The first post-Act 20 required update deadline for draft county land information plans is December 29, 2015. Final plans are due March 31, 2016.

County Land Information System History and Context

On July 17, 1990, the Grant County Board of Supervisors acted to create a Grant County Land Information Committee. This committee reports to the Executive Committee. The Land Information Committee was developed to coordinate activities for the development of Land Records Modernization Plan.

Grant County's land information system began in 1995, with the awarding of a WLIP grant to a consortium of counties in the southwest part of the state. This grant was used to secure digital orthophotography, hardware and GIS software.

Plan Participants and Contact Information

Another requirement for participation in the WLIP is the county Land Information Council, established by legislation in 2010. The council is tasked with reviewing and advising on the land information priorities, needs, policies, and expenditures.

According to s. 59.72(3m), Wis. Stats., the county Land Information Council is to include:

- Register of Deeds
- Treasurer
- Real Property Lister or designee
- Member of the county board
- Representative of the land information office
- A realtor or member of the Realtors Association employed within the county
- A public safety or emergency communications representative employed within the county
- County surveyor or a registered professional land surveyor employed within the county
- Other members of the board or public that the board designates

This plan was prepared by those listed below:

Grant County Land Information Council and Plan Workgroup

Name	Title	Affiliation	Email	Phone
*Lynda Schweikert	Administrator	Conservation, Sanitation & Zoning Department	Lynda.schweikert@wi.nacdnet.net	608.723.6377 #120
*Robert Keeney	Board Chair	County Board	rkeeney@co.grant.wi.gov	608.723.2711
*Marilyn Pierce	Register of Deeds	Register of Deeds	mpierce@co.grant.wi.gov	608.723.2727
*Louise Ketterer	Grant County Treasurer	Treasurer	LKetterer@co.grant.wi.gov	608.723.2604
*Chris Johll	Communications Supervisor	Grant County Sheriff's Office	cjohll@co.grant.wi.gov	608.723.2157
*Jeff Anderson	Information Technology Director	Information Technology	janderson@co.grant.wi.gov	608.723.1668
*Jonathan Miles	Real Estate Broker	Century 21 Affiliated	Jonmiles21@aol.com	608.988.7400
*VACANT	County Surveyor			
*Tammy Hampton	Real-Property Lister	County Clerk/Property Lister	thampton@co.grant.wi.gov	608.723.2666
*John Anderson	Cartographer	County Clerk/Property Lister	johnanderson@co.grant.wi.gov	608.723.2666
Travis Kramer	Highway Engineer	Highway Department	tkramer@co.grant.wi.gov	608.723.2595

* Land Information Council Members designated by asterisk

2 FOUNDATIONAL ELEMENTS

Counties must have a land information plan that addresses development of specific datasets or map layer groupings historically referred to as the WLIP Foundational Elements. Foundational Elements incorporate nationally-recognized "Framework Data" elements, the major map data themes that serve as the backbone required by users to conduct most mapping and geospatial analysis.

FOUNDATIONAL ELEMENTS

- PLSS
- Parcel Mapping
- LiDAR and Other Elevation Data
- Orthoimagery
- Address Points and Street Centerlines
- Land Use
- Zoning
- Administrative Boundaries
- Other Layers

In the past, Foundational Elements were selected by the former Wisconsin Land Information Board under the guiding idea that program success is dependent upon a focus for program activities. Thus, the *Uniform Instructions* place priority on certain elements, which must be addressed in order for a county land information plan to be approved. Beyond the county's use for planning purposes, Foundational Element information is of value to state agencies and the WLIP to understand progress in completion and maintenance of these key map data layers.

The list of WLIP's Foundational Elements has evolved with each update of the county land information plan instructions. They are a guideline of what counties need to address in their plans *at a minimum*.

PLSS

Public Land Survey System Monuments

Layer Status

- For the PLSS Foundational Element, the table below documents Layer Status

PLSS Layer Status

Name	Status/Comments			
Total number of PLSS corners (section, ¼, meander) set in original government survey	4300 +/-	*As money allows, the county will do remonumentation & obtain coordinates		
Number and percent of PLSS corners that have been remonumented	3500 +/-	80%		
Number and percent of remonumented PLSS corners with survey grade coordinates (see below for definition)	800 +/-	18%		
Number and percentage of survey grade PLSS corners integrated into county digital parcel layer	600 +/-	14%		
Number and percentage of non-survey grade PLSS corners integrated into county digital parcel layer	3200 +/-			
Percentage of PLSS corners that have digital tie sheets (whether or not they have corresponding coordinate values)	80%			
Digital tie sheets available online? Yes or No	Yes			
Approximate number of PLSS corners believed to physically exist based on filed tie-sheets or surveys, but do not have coordinate values	2700 +/-			
Approximate number of PLSS corners believed to be lost or obliterated	?			
Total number of PLSS corners along each bordering county	Lafayette = 44	Iowa = 54		
Number and percent of PLSS corners remonumented along each county boundary	Lafayette = 35	Iowa = 44	79%	81%
Number and percent of remonumented PLSS corners along each county boundary with survey grade coordinates	Lafayette = 14	Iowa = 23	32%	42%
Does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	Sure			

Custodian

- Real-Property Lister's Office, County Surveyor

Maintenance

- Update information as data is received and back-up digital files/data

Standards

- Statutory Standards for PLSS Corner Remonumentation
  s. 59.74, Wis. Stats. Perpetuation of section corners, landmarks.
  s. 60.84, Wis. Stats. Monuments.
  ch. A-E 7.08, Wis. Admin. Code, U.S. public land survey monument record.
  ch. A-E 7.06, Wis. Admin. Code, Measurements.
  s. 236.15, Wis. Stats. Surveying requirements.
- Wisconsin County Surveyor's Association **survey grade** standard:
  Coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by s. 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision.

Other Geodetic Control and Control Networks

Layer Status

- HARN, Height Modernization Network

Custodian

- DOT used to; going forward - unsure

Maintenance

- No current plans to update

Standards

- Set by DOT

Parcel Mapping

Parcel Geometries

Layer Status

- Available but incomplete
- Specify whether 100% of the county's parcels are available in a commonly-used GIS format – 98% complete
- Give projection and coordinate system used – Grant County Coordinate System as defined by WI DOT
- Note whether your parcel polygon model directly integrates tax/assessment data as parcel attributes – No, but steps are being taken to integrate all data
- Specify whether you use or plan to implement the Esri Parcel Fabric Data Model, and/or Esri's Local Government Information Model – We don't use it, but could implement in the future

Custodian

- Cartographer

Maintenance

- –Ongoing, updated as available

Standards and Documentation

- Data Dictionary – in progress
  Confirm the presence of data dictionary in human-readable form, with thorough definitions for each element/attribute name, and explanations of any county-specific notations, particularly for parcel attributes listed by s. 59.72(2)(a)

Assessment/Tax Roll Data

Layer Status

- GCS Software

Custodian

- Real-Property Lister & County Treasurer

Maintenance

- Real-Property Lister & County Treasurer - ongoing

Standards

- s. 73.03(2a), Wis. Stats. Department of Revenue (DOR) – Powers and duties defined. Department of Revenue Property Assessment Manual – Chapter 5 and DOR format standard requested by DOR for assessment/tax roll data
- s. 59.72(2)(a), Wis. Stats. Presence of all nine "Act 20" attributes
- s. 59.72(2)(a), Wis. Stats. Crosswalk of attributes

Act 20 Attributes Required by s. 59.72(2)(a)	Field Name(s) in County Land Info System	Notes on Data or Exceptions to DOR Standard
Assessed value of land	Not in GIS	Available as export
Assessed value of improvements	Not in GIS	Available as export
Total assessed value	Not in GIS	Available as export
Class of property, as specified in s. 70.32 (2)(a)	Not in GIS	Available as export
Estimated fair market value	Not in GIS	Available as export
Total property tax	Not in GIS	Available as export
Any zoning information maintained by the county	Zoning in GIS	Zoning information is not required in DOR schema
Any property address information maintained by the county	Not in GIS	Available as export
Any acreage information maintained by the county	Not in GIS	Available as export

Non-Assessment/Tax Information Tied to Parcels

Layer Status

- In Progress/Incomplete

Custodian

- Real Property Lister/Cartographer

Maintenance

- Ongoing

Standards

- In-house standards

ROD Real Estate Document Indexing and Imaging

Status

- **Grantor/Grantee Index**. The Register of Deeds expanded its scanning projects to include all deed-related documents back as far as records were kept – 1837. Redaction of social security numbers were included in this process. These images will eventually be incorporated into the GCS software system by the county IT department. They will then be accessible by document number, or by vol/page on Grant County's Web Portal. Future projects may include adding grantor/grantee and other information to the index database.
- **Tract Index**. For many years, Grant County had no tract index. Computerized tract indexing began in the Register of Deeds Office in the GCS program in January 2012. In 2013, Grant County was fortunate to have the opportunity to purchase a paper tract index from a local abstract company that went out of business. The Register of Deeds promptly had this paper tract index

scanned, and is available to the public at http://grant.colortract.com . These two systems provide Grant County customers an excellent basis for searching.

- **Imaging**. The imaging of on-going documents is done on a semi-weekly basis in-house with ACS (Xerox) software. These images are then exported to the web portal weekly, also done in-house.

Custodian

- County Register of Deeds

Maintenance

- Ongoing

Standards

- s. 59.43, Wis. Stats. Register of deeds; duties, fees, deputies.
- ch. 706, Wis. Stats. Conveyances of real property; Recording; Titles.

LiDAR and Other Elevation Data

LiDAR

Layer Status

- State progress toward completion/maintenance - Complete
- Specify the accuracy, post spacing, contractor's standard, etc. if known – 2-ft contours complete

Custodian

- Cartographer

Maintenance

- As funding allows

Standards

- National Standards for Spatial Data & Accuracy (NSSDA)
- American Society for Photogrammetry & Remote Sensing (ASPRS)
- FEMA's Guidelines & Specification for Flood Hazard Mapping Partners

LiDAR Derivatives

Layer Status

- Contours, Terrain & DEM: Complete

Custodian

- Cartographer

Maintenance

- As funding allows

Standards

- National Standards for Spatial Data & Accuracy (NSSDA)
- American Society for Photogrammetry & Remote Sensing (ASPRS)
- FEMA's Guidelines & Specification for Flood Hazard Mapping Partners

Other Types of Elevation Data

Layer Status

- N/A

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Orthoimagery

Orthoimagery

Layer Status

- Complete, 2015

- 12-inch Resolution
- Specify whether county participated in WROC 2015 – Yes
- Next Scheduled update: 2020

Custodian

- Cartographer

Maintenance

- Update every five years

Standards

- National Standards for Spatial Data & Accuracy (NSSDA)
- American Society for Photogrammetry & Remote Sensing (ASPRS)

Historic Orthoimagery

Layer Status

- 1995, 2005, 2010

Custodian

- Cartographer

Maintenance

- Historic Orthoimagery archived only

Standards

- Will vary based on year in which historic Orthoimagery were collected

Other Types of Imagery

Layer Status

- Infra-red

Custodian

- Cartographer

Maintenance

- Historic datasets archived only

Standards

- Will vary based on year in which data was collected

Address Points and Street Centerlines

Address Point Data

Layer Status

- Master Street Address Guide, Tax Assessment Roll, and Structure Data Layer integration

Custodian

- Real Property Lister: Tax Assessment Roll/GIS Attribute Table data; Cartographer: Shapefile Data

Maintenance

- Updated Nightly

Standards

- Develop standards to ensure the highest level of accuracy and precision using the most current data possible
- NENA Standards

Building Footprints

Layer Status

- Grant County does not collect this information

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Other Types of Address Information

Address ranges

Layer Status

- In Progress through the integration of E911 and Address Point Data

Custodian

- E911

Maintenance

- Ongoing

Standards

- Will meet the standards of E911 and/or Address Point Data standards
- NENA Standards

Street Centerlines

Layer Status

- Existing through E911

Custodian

- E911/Cartographer

Maintenance

- Ongoing

Standards

- Will meet the standards of E911 and/or Address Point Data standards
- NENA Standards

Rights of Way

Layer Status

- In progress

Custodian

- Real-Property Lister's Office

Maintenance

- Real-Property Lister's Office

Standards

- NENA Standards
- Will meet the standards of E911 and/or Address Point Data standards

Trails

Not Available

Layer Status

- N/A

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Land Use

Current Land Use

Layer Status

- Available

Custodian

- Zoning Administrator/SWWRPC

Maintenance
- Update as zoning/use changes

Standards
- Develop standards to ensure the highest level of accuracy and precision using the most current data possible

Future Land Use

Layer Status
- Planned

Custodian
- Zoning Administrator

Maintenance
- Comprehensive plans updated every 10 years

Standards
- s. 66.1001, Wis. Stats. Comprehensive planning.

Zoning

County General Zoning

Layer Status
- Existing

Custodian
- Zoning Administrator

Maintenance
- –Updated Yearly

Standards
- s. 59.69 & 87.30, Wis. Stats. Zoning

County Special Purpose Zoning

Shoreland, floodplain

Layer Status
- Shoreland zoning planned
- Floodplain zoning available through DNR water surface viewer website

Custodian
- Zoning Administrator
- DNR

Maintenance
- As floodplain zoning is amended

Standards
- s. 59.69, 59.971, 59.99, 87.30 7 114.26 Wis. Stats. Zoning
- s. 61.35 & 62.23, 59.691, & 87.30, Wis. Stats

Municipal Zoning Information Maintained by the County

Grant County does not collect this information

Layer Status
- N/A

Custodian
- N/A

Maintenance
- N/A

Standards
- N/A

Administrative Boundaries

Civil Division Boundaries

e.g., towns, city, villages, etc.

Layer Status

- Available

Custodian

- Cartographer

Maintenance

- As Boundaries are amended

Standards

- Develop standards to ensure the highest level of accuracy and precision using the most current data possible

School Districts

Layer Status

- State progress toward completion/maintenance - Complete
- Specify whether and how school districts are tied to parcels, and which specific school district attribute(s) are linked to parcels – Available by export, will integrate to GIS

Custodian

- Cartographer

Maintenance

- As District Boundaries are amended

Standards

- Develop standards to ensure the highest level of accuracy and precision using the most current data possible

Election Boundaries

Layer Status

- Voting districts, wards available upon request through County Clerk

Custodian

- Cartographer/County Clerk

Maintenance

- As Boundaries are amended

Standards

- Develop standards to ensure the highest level of accuracy and precision using the most current data possible

Utility Districts

Grant County does not collect this information

Layer Status

- Available through Public Service Commission

Custodian

- Public Service Commission

Maintenance

- Public Service Commission

Standards

- Public Service Commission Standards

Public Safety

Fire/police districts, emergency service districts, 911 call center service areas

Layer Status

- NEEDS TO BE UPDATED/LOCATED

Custodian

- E911

Maintenance
- Ongoing

Standards
- Will meet NENA Standards

Lake Districts
Grant County does not have lake districts

Layer Status
- N/A

Custodian
- N/A

Maintenance
- N/A

Standards
- N/A

Native American Lands
Grant County does not have Native American lands

Layer Status
- N/A

Custodian
- N/A

Maintenance
- N/A

Standards
- N/A

Other Administrative Districts
Grant County does not collect this information

Layer Status
- N/A

Custodian
- N/A

Maintenance
- N/A

Standards
- N/A

Other Layers

Hydrography Maintained by County or Value-Added

Layer Status
- Available

Custodian
- DNR

Maintenance
- DNR

Standards
DNR Standards

Cell Phone Towers
Grant County does not collect this information

Layer Status
- Available through Public Service Commission

Custodian

- Public Service Commission

Maintenance

- Public Service Commission

Public Service Commission Standards

- Public Service Commission Standards

Bridges and Culverts

Layer Status

- Will be made available upon completion

Custodian

- Zoning Administrator/Hwy Dept.

Maintenance

- Ongoing

Standards

- Develop standards to ensure the highest level of accuracy and precision using the most current data possible

Other

Non-metallic mining

Layer Status

- Available

Custodian

- SWWRPC

Maintenance

- Yearly

Standards

- s. 295.13(1), Wis. Stats.
- NR 135.32, Adm. Code

3 LAND INFORMATION SYSTEM

The WLIP seeks to enable land information systems that are both modernized and integrated. Integration entails the coordination of land records to ensure that land information can be shared, distributed, and used within and between government at all levels, the private sector, and citizens.

LAND INFORMATION SYSTEM

An orderly method of organizing and managing land information and land records

– Wis. Stats. section 16.967(1)(c)

One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

> The design, development, and implementation of a land information system that *contains and integrates*, at a minimum, property and ownership records with boundary information, including a parcel identifier referenced to the U.S. public land survey; tax and assessment information; soil surveys, if available; wetlands identified by the department of natural resources; a modern geodetic reference system; current zoning restrictions; and restrictive covenants.

This chapter describes the design of the county land information system, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

Current Land Information System

Grant County Parcel Data Workflow Diagram

This required section features a diagram that documents Grant County's parcel mapping and tax roll process. The purpose of the parcel workflow is for WLIP staff and other readers to better understand the various aspects of parcel data creation and maintenance, which greatly vary from county to county.

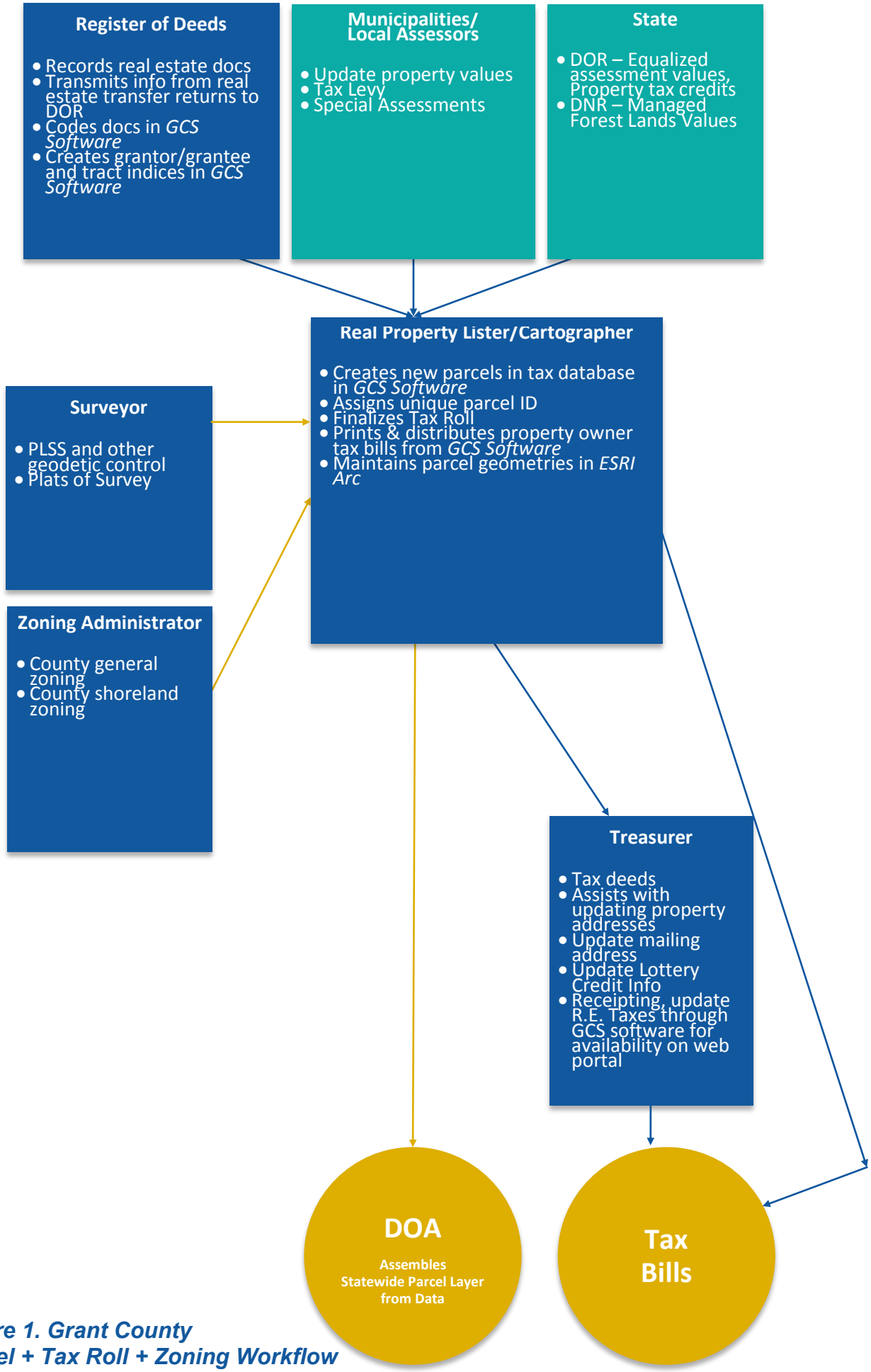

Figure 1. Grant County Parcel + Tax Roll + Zoning Workflow

Technology Architecture and Database Design

This section refers to the hardware, software, and systems that the county uses to develop and operate computer systems and communication networks for the transmission of land information data.

Register of Deeds document imaging software is GCS Software. Parcel map web host is Ruekert-Mielke. GCS Software is used for assessment, taxation & document indexing. ESRI Arc Map is our parcel mapping software. Web portals for tax records and parcel mapping are located on Grant County's webpage.

Metadata and Data Dictionary Practices

Grant County's metadata is in progress.

Municipal Data Integration Process

Departments hear from clients through telephone calls, email, postal services and personal contact for the type of information requested, as well as the medium in which the public or governmental agency has available. A needs assessment evaluation would determine if the data exists, is extractable from other sources, and if it is needed to develop local data. If determined that the dataset or technology will contribute to or enable local operations, further assessment would determine priority, hardware, software and professional consulting needs. ESRI ArcGIS is utilized to coordinate with existing technology, applications and databases. Data is quality checked for accuracy, streamlined, adjusted and migrated to our GIS mapping system.

Public Access and Website Information

Public Access and Website Information – Example

Type of Website	Software or App	3rd Party or Contractor	URL	Update Frequency/ Cycle
GIS webmapping site	*GeoCortex/ESRI ArcGIS*	*Ruekert-Mielke*	https://swwigis.ags.ruekert-mielke.com	Quarterly
ROD land records search tools	*GCS website service*	*GCS*	http://www.grantcountylandrecords.com/	Daily
RPL or tax parcel site	*GCS website service*	*GCS*	http://www.grantcountylandrecords.com	As records are updated
Zoning information (PDF or WebApp format)	*ESRI Arc Map*	*Ruekert-Mielke*	https://swwigis.ags.ruekert-mielke.com/	Annual
PLSS tie sheets	*On Q Solutions*	On Q Solutions	http://grant.colortract.com	Annual
Grant County	State of WI website service	State of WI	http://www.co.grant.wi.gov	As needed

Data Sharing

Data Availability to Public

Grant County maintains a home page website. It provides public access to County Departments, Elected Officials, meetings, agendas, minutes, committees and election information. Working on making it more user-friendly. Grant County also hosts the tax and assessment portal on the County's website using GCS software. This site entitles you to be able to search by property address, parcel id or by name. Grant County adheres to Wisconsin's Open Records Law ss. 19.31 to 19.39 Wisconsin Statutes.

Data Sharing Restrictions

On the GCS Web Portal, under 'Documents', the grantor/grantee/tract index is open records and free of charge to the public. However, the grantor/grantee portion is only as far back as Jan. 1, 1989, and the tract is only back as far as Jan. 1, 2012. Also, actual images of the documents are only obtainable through an escrow account with the Register of Deeds, or they can be purchased with a credit card.

Government-to-Government Data Sharing

Zoning – Zoning Administrator provides a yearly update to DATCP. Real-Property Lister's Office provides information to the DNR, DOR, DOT, DOA, UW, local municipalities & surrounding counties. Register of Deeds – provides transfer returns to the State through the DOR. County Treasurer shares with all 52 municipalities, State of WI & DOR

Training and Education

The training & education grants are used for ongoing training, training conventions. We also hold a yearly training/refresher meeting for municipal clerks/treasurers. Sanitation holds small group training for sanitary data input.

Education and training is offered by and has been utilized from Southwest Technical College; University of Wisconsin-Extension; WI Land Information Associate (WLIA); Natural Resources Conservation Service; Wisconsin Land & Water Conservation Associate; WI Real Property Lister's Association; Wisconsin Register of Deeds Association; Wisconsin County Treasurer's Association (WCTA); Wisconsin Department of Revenue; Wisconsin Land Title Association (WLTA); Survey Institute sponsored by Wisconsin Society of Land Surveyors; Wisconsin Local Government IT Directors (GIPAW); Wisconsin Department of Commerce, Safety & Buildings Division sponsors continuing education for POWTS; ESRI training. Southwestern Wisconsin Regional Planning Commission

4 CURRENT & FUTURE PROJECTS

This chapter lists the current and future land information projects Grant County is currently undertaking or intends to pursue over its planning horizon. These projects are the means to achieving the county's mission for its land information system.

Project Plan to Achieve Searchable Format (Benchmarks 1 & 2)

Project Description/Goal

How searchable format will be met

- Grant County will develop a process to include the required attributes into the Geodatabase. Parcel mapping will be impacted by this. We will work with GCS & SWWRPC to integrate current data into State required system.

Business Drivers

- The *Project Plan to Achieve Searchable Format for Benchmarks 1 & 2* is a requirement for Strategic Initiative grant eligibility.

Objectives/Measure of Success

- The objective is to meet the searchable format for Benchmarks 1 & 2 (Parcel and Zoning Data Submission, Extended Parcel Attribute Set Submission) by March 31, 2018.

Project Timeframes

- November 2015 – meet with GCS to discuss needs & means of data export
- 2016 – work on data clean-up & submit attributes to State for review
- 2017 - provide any additional information required by initial review & work on extended parcel attribute set
- March 31, 2018 – submit extended parcel attribute set

Responsible Parties

- Real-Property Lister's Office/Cartographer, IT, Zoning Administrator, Regional Planning, County Treasurer, Register of Deeds

Estimated Budget Information

- See table.

Project Plan for Parcel Completion (Benchmark 3)

Project Description/Goal

Current status of parcel data

- Grant County has approximately 48,000 parcels. We have 46,500 +/- complete.

Goals

- Our goal is to add 500.
- Mapping of condominiums, highway parcels & Federal lands

Planned approach

- Parcels will be mapped as time allows.

Business Drivers

- The *Project Plan for Parcel Completion* is a requirement for Strategic Initiative grant eligibility.

Objectives/Measure of Success

- The objective is to meet Benchmark 3 (Completion of County Parcel Fabric) by 2018.

Project Timeframes

- In progress; newly created parcels mapped yearly

Responsible Parties

- Grant County Cartographer and all contracted service providers

Estimated Budget Information

- See table.

Project Plan for PLSS Remonumentation & Coordinate Acquisition (Benchmark 4)

Project Description/Goal

Planned approach

- Planned approach for remonumenting, rediscovering, and establishing **survey-grade** coordinates for PLSS corners, and integrating corners into the parcel fabric. Our goal is to continue remonumentation and gather survey-grade coordinates as grant funding is available.

Current status

- Grant County has approximately 4300 corners in the county; approximately 80% have been remonumented; approximately 18% have survey-grade coordinates
  - **Survey-grade** – Coordinates collected under the direction of a professional land surveyor, in a coordinate system allowed by s. 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision
  - **Sub-meter** – Accuracies of 1 meter or better
  - **Approximate** – Accuracies of within 5 meters or to coordinates derived from public records and other relevant information

Goals

- Our goal is 50 corners remonumented per year as funding allows with survey-grade coordinates.

Missing corner notes

- We have no documentation for missing corners.

County boundary collaboration

- We have collaborated with neighboring county surveyors.

Business Drivers

- The *Project Plan for PLSS* is a requirement for Strategic Initiative grant eligibility.
- Surveying Industry
- Real Estate Marketing
- This project enhances the accuracy of parcel mapping
- The parcel map datalayer is relied upon for tax assessment

Objectives/Measure of Success

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by 2050.

Project Timeframes

- Completion by 2050 – all depending on availability of surveyor & grants/funding

Responsible Parties

- County Surveyor

Estimated Budget Information

- See table.

Project Plan for Property Address Points

Project Description/Goal

- Create property address layer in GIS

Business Drivers

- Property assessment
- Real estate property search

Objectives/Measure of Success

- 100% of property addresses in GIS

Project Timeframes

- In progress/ongoing

Responsible Parties

- Cartographer

Estimated Budget Information

- See table.

Project Plan for Master Street Address Guide (MSAG)

Project Description/Goal

- Create MSAG in mapping layer

Business Drivers

- Grant County Sheriff's Office

Objectives/Measure of Success

- Insure addresses fall within proper road range

Project Timeframes

- Ongoing

Responsible Parties

- Grant County Sheriff's Office/GeoComm

Estimated Budget Information

- See table.

Project Plan for Developing Shoreland Zoning Layer

Project Description/Goal

- To aid in the enforcement of the Grant County Shoreland Zoning Ordinance, it would be helpful to have a layer showing the 75' and 300' buffer from mapped Waters of the State

Business Drivers

- Grant County Shoreland Ordinance – CSZD
- WI DNR, NR 55
- Grant County Realtors, contractors

Objectives/Measure of Success

- Identify navigable waters layer
- Create 75' buffer

- Create 300’ buffer
- Upload online

Project Timeframes

- 1 month - Identify navigable waters layer
- 1 week - Create 75’ buffer
- 1 week - Create 300’ buffer
- 1 month - Upload online

Responsible Parties

- CSZD Technician – locating layers, ground proofing data
- Cartographer – incorporating layers, providing data to R/M
- Ruekert/Mielke and/or SWWRPC– Uploading to online mapping website

Estimated Budget Information

- See Table

Project Plan for Geolocating Culverts, Bridges & Driveways

Project Description/Goal

- This project would gather GPS data on all culverts, for use in conjunction with the LIDAR layer. Currently, all roads appear to be dams on the hydrography layer in LIDAR. By gathering elevation data on the culverts, we would be able to utilize the LIDAR data more effectively. At the same time we could gather information on address points and bridges for the 911 & Hwy Dept. respectively.

Business Drivers

- Conservation, Sanitation & Zoning Dept
- 911/Emergency Management
- Hwy Dept

Objectives/Measure of Success

- Obtain Intern/equipment to complete the project
- Develop process for data collection
- Complete data collection
- Integrate data into Lidar

Project Timeframes

- 3 months - Obtain Intern/equipment to complete the project
- 1 month - Develop process for data collection
- 6 months - Complete data collection
- 2 months - Integrate data into Lidar
- 2 months – integrate data into bridge layer
- 2 months – integrate data into address layer

Responsible Parties

- CSZD Technician – locating layers, ground proofing data
- Cartographer – incorporating layers, providing data to R/M
- Intern – Gathering Data
- 911/Hwy - Advisory
- Ruekert/Mielke – Uploading to online mapping website

Estimated Budget Information

- See Table

Project Plan for Geolocating CSMs and Plats of Survey

Project Description/Goal

- Provide easy online access to all Plats of Survey and CSMs for county, city & villages

Business Drivers

- Realtors
- Assessors

Objectives/Measure of Success

- Find a method to get all surveys scanned & online
- Develop online database access for scanned images
- Develop plan for updating database

Project Timeframes

- 1 month - Find a method to get all surveys scanned & online
- 6 months - Develop online database access for scanned images
- 1 month - Develop plan for updating database

Responsible Parties

- Cartographer – incorporating layers, providing data to R/M
- Intern – Gathering Data
- Realtor/Surveyors - Advisory
- Ruekert/Mielke and/or SWWRPC– Uploading to online mapping website

Estimated Budget Information

- See Table

Project Plan for Centralizing Assessor Data

Project Description/Goal

- Provide one source for obtaining assessor file data and compiling/standardizing the format

Business Drivers

- Realtors
- Assessors
- State of Wisconsin

Objectives/Measure of Success

- Develop standardized Assessment format
- Find a method to get all Assessments in a central location
- Develop online database access for information
- Develop plan for updating database

Project Timeframes

- 3 months - Develop standardized Assessment format
- 3 months - Find a method to get all Assessments in a central location
- 3 months - Develop online database access for information
- 1 month - Develop plan for updating database

Responsible Parties

- Cartographer – incorporating layers, providing data to R/M
- Intern – Gathering Data

- Realtor/Assessors - Advisory
- Ruekert/Mielke – Uploading to online mapping website

Estimated Budget Information

- See Table

Project Plan for Special Assessment Database

Project Description/Goal

- Establish monthly update for Special Assessment database

Business Drivers

- Realtors
- Municipalities
  Home Buyers

Objectives/Measure of Success

- Develop standardized special assessment reporting process
- Find a method to get all special assessments to a central location
- Develop online database to access for information
- Develop plan for monthly updates

Project Timeframes

- 3 months - Develop standardized special assessment reporting process
- 3 months - Find a method to get all special assessments to a central location
- 3 months - Develop online database access for information
- 1 month - Develop plan for monthly updates

Responsible Parties

- SWWRPC- Plan and Process Development
- Cartographer – incorporating layers, providing data to R/M
- Intern – Gathering Data
- Realtor/Assessors - Advisory
- Ruekert/Mielke – Uploading to online mapping website

Estimated Budget Information

- See Table

Project Plan for Locating Structures in the Floodplain

Project Description/Goal

- Create an overlay of the current Floodplain maps to identify which structures are currently located in a mapped floodplain

Business Drivers

- FEMA
- DNR
- Realtors

Objectives/Measure of Success

- Utilize updated address layer
- Overlay Floodplain layer
- Query which address fall in the Floodplain layer

Project Timeframes

- Current planned project - Utilize updated address layer

- 1 day - Overlay Floodplain layer
- 1 day - Query which address fall in the Floodplain layer

Responsible Parties

- Cartographer – providing address layer
- SWWRPC – Compiling data
- Ruekert/Mielke – Uploading to online mapping website

Estimated Budget Information

- See Table

Project Plan for Scanning/Indexing Expansion

Project Description/Goal

- Integrate scanned documents into GIS datasets – (IT)
- Increase accessibility by entering grantor/grantee information. This will include historic information

Business Drivers

- Title companies
- Public

Objectives/Measure of Success

- A more complete database for searchers that need property history of 40+ years

Project Timeframes

- IT – 2 months
- Register of Deeds – 12 months

Responsible Parties

- IT
- Register of Deeds
- SWWRPC

Estimated Budget Information

- See Table

Estimated Budget Information Table

Project	Item	Unit Cost	Cost	Total Project Cost
1. Achieve Searchable Format (Benchmarks 1 & 2)	a. Condo mapping/Cartographer	$100/condo	$5,000	
	b. Integration of tax/assessment data with parcel polygons	$1/parcel	$50,000	
				$55,000
2. Parcel Completion (Benchmark 3)	a. Cartographer	25% of 40,000	$10,000	
				$10,000

3. PLSS Remonumentation (Benchmark 4)	a. County Surveyor	$500/corner	$400,000	
Survey-grade coordinates (Benchmark 4)	b. County Surveyor	$100/corner	$350,000	
				$750,000
4. Property Address Points	a. SWWRPC	$15,500		
				$15,500
5. MSAG	a. Sheriff's Office – Address Point Development	$41,544	$41,544	
	b. Sheriffi's Office – GeoComm Field Verification of questionable address points	$4000 flat fee + $8.65/point	$15,000	
	c. Sheriff's Office – verify all estimated address points in Grant County	$216,500	$216,500	
	d. Sheriff's Office – yearly maintenance fee	$900	$900	
				$273,944
6. Shoreland Zoning Layer	a. CSZD Tech	40 hrs@ $22	$880	
	b. Cartographer	40 hrs@ $22	$880	
	e. Ruekert/ Mielke	Bid?	$4,500	
				$6,260
7. Geo locate Culverts	a. CSZD Tech	160 hrs@ $22	$3,520	
	b. Cartographer	160 hrs@ $22	$3,520	
	f. Intern	1040 hrs @ $10	$10,400	
	g. Mileage	2127 miles @ $0.51	$1,085	
	h. Hardware	$2000	$2,000	
	i. Ruekert/ Mielke	Bid?	$4,500	
				$25,025
8. Geolocating Plats of Surveys & CSMs	a. Cartographer	160 hrs@ $22	$3,520	
	b. Intern	500 hrs @ $10	$5,000	
	c. Realtor/Surveyor	$90/meetings	$720	
	d. Ruekert/Mielke	Bid?	$4,500	
	f. SWWRPC	Meetings, and process development	$2,000	
				$15,740
9. Centralizing Assessor Data	a. Cartographer	160 hrs@ $22	$3,520	
	b. Intern	500 hrs @ $10	$5,000	
	c. Realtor/Assessor	$90/meetings	$720	
	d. Ruekert/Mielke	Bid?	$4,500	
	e. SWWRPC	Meetings, and process development	$2,000	
				$15,740
10. Special Assessment Database	a. Cartographer	160 hrs@ $22	$3,520	
	b. Intern	500 hrs @ $10	$5,000	

	c. Realtor/Assessor	$90/meetings	$720	
	d. Ruekert/Mielke	Bid?	$4,500	
	e. SWWRPC	Meetings, and process development	$2,000	
				$15,740
11. Floodplain Structures	a. Cartographer	16 hrs @ $22	$352	
	b. SWWRPC	16 hrs @ $44.12	$706	
	c. Ruekert/Mielke	Bid	$500	
				$1,558
12. Scanning/Indexing Expansion	a. Intern (?)	1040 hrs @ $10	$10,400	
				$10,400
			GRAND TOTAL	**$1,194,907**

Note. These estimates are provided for planning purposes only. Budget is subject to change.

Other Project Sections

Completed Projects

- Applied for and received a Community Development Block Grant to acquire LiDAR data for Grant County for $450,000. Completed the project on 10/15/2012
- Worked with SWWRPC and County Cartographer to develop Farmland Preservation Zoning layer. In the spring of 2015, the Zoning layer was uploaded to the County GIS mapping website.
- ROD has completed the scanning project.
- Orthoimagery photos have been updated.
- County Treasurer provided availability to pay property taxes online through pointandpay.com