

GREEN LAKE COUNTY

571 County Road A, Green Lake, WI 54941

Original Post Date: 07/08/2021

Amended* Post Date:

The following documents are included in the packet for the Land Information Council on July 12, 2021:

- 1) *Amended Agenda
- 2) Minutes from April 12, 2021
- 3) 2022 Budget Discussion
- 4) Land Information 3 Year Plan



GREEN LAKE COUNTY LAND INFORMATION COUNCIL

571 County Road A

Green Lake, WI 54941

Land Information Council Meeting Notice

Date: July 12, 2021 Time: *10:30AM-1:00PM
Green Lake County Government Center,
County Board Room, 571 County Road A, Green Lake WI

Amended* AGENDA

Committee Members

Harley Reabe

Renee Thiem-Korth

Elizabeth

Otto Amanda Toney

Bob Schneider

Paul Gunderson

Podoll Gerald Stanuch Don Lenz

Mark

Matt Kirkman Elizabeth

Otto, Secretary 1. Call to Order

2. Pledge of Allegiance

3. Certification of Open Meeting Law

4. Minutes: 04/12/2021

5. Public Comments (3 Min. Limit)

6. Correspondence

7. Fire Number Ordinance

8. County Fair Booth

9. Radar Site Historical Marker

10. Location of Land Information Council Office

11. 2022 Budget Discussion

12. 2020 Aerial Image Cost Share Reimbursement \$7,510

 Partners: DOT, NRCS, DNR, WEM, LTSB, DATCP, Adams-Columbia Electric, WPS/We Energies, TDS

13. Land Information 3 Year Plan Update 2022-2023-2024

14. Future Council Activities

• Future Meeting. Dates: 10/11/2021

• Future Agenda items for action & discussion

15. Adjourn

Due to the COVID-19 pandemic, this meeting will be conducted and available through in person attendance (6 ft. social distancing and face masks required for people who are **not** vaccinated) or audio/visual communication. Remote access can be obtained through the following link:

Topic: Land Information Council

Time: Jul 12, 2021 01:00 PM Central Time (US and Canada)

Join Zoom Meeting

https://us06web.zoom.us/j/88125289014?pwd=WWhEdC9BZ3FsMHl2OFBON1NsajZ2dz09

Meeting ID: 881 2528 9014

Passcode: 207760

Dial by your location

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

Kindly arrange to be present, if unable to do so, please notify our office. Sincerely, Elizabeth Otto

GREEN LAKE COUNTY LAND INFORMATION COUNCIL April 12, 2021

The meeting of the Land Information Council was called to order by Chair Harley Reabe at 10:30 AM on Monday, April 12, 2021 in the County Board Room, Green Lake County Government Center. The meeting was held both in person and via Zoom due to the COVID-19 pandemic. The requirements of the open meeting law were certified as being met. The Pledge of Allegiance was recited.

Present: Harley Reabe Amanda Toney Bob Schneider

Jerry Stanuch Renee Thiem - Korth Don Lenz

Liz Otto Matt Kirkman

Absent: Paul Gunderson, Sheriff Mark Podoll

APPROVE MINUTES FROM 01/11/2021

Motion/second (Lenz/Toney) to approve the minutes from the January 11, 2021 meeting with no errors or corrections. Motion carried with no negative vote.

PUBLIC COMMENTS - none

CORRESPONDENCE - none

WEBSITE METRICS

Land Information Officer Jerry Stanuch and Treasurer Amanda Toney updated the committee on the Wisconsin Real Estate Sales Finder website which was implemented in September of 2020. There were 1,146 "hits" from September through December. A full year report will be available in September of 2021.

2020 GRANT REPORT

Land Information Officer Jerry Stanuch outlined his report which was submitted to the state for a total of \$171,442.55.

RADAR SITE HISTORICAL MARKEER

Land Information Officer Jerry Stanuch provided prices for installing an historical marker on Hwy 23/73. He stated that the state does not fund historical markers and the County cannot ask for donations per Corporation Counsel. Further discussion was postponed until the July meeting.

FUTURE COUNCIL ACTIVITIES

Future Meeting Dates: July 12, 2021 @ 1:00 PM; October 11, 2021

Future Agenda items for action & discussion: radar site historical marker, Chapter 217 regarding fire number procedures

ADJOURNMENT

Chairman Reabe adjourned the meeting at 10:47 AM.

Submitted by:

Liz Otto County Clerk

2022 Land Information Budget

Base grant \$75,000 Strategic grant \$50,000 Education grant \$1,000 Retained Fees \$25,000

Total \$151,000

Green Lake County Land Information Plan

2022-2023-2024

Land Information Council 571 County Road A Green Lake WI 54941 (920) 294-4174 https://gis.co.green-lake.wi.us/

Version: 2021-07-12

Approved/Adopted by Land Information Council on: 2021-10-11

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EXECUTIVE SUMMARY

About this Document. This document is a Land Information Plan for Green Lake County prepared by the Land Information Officer (LIO) and the Green Lake County Land Information Council. Under state statute 59.72(3)(b), 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 2020, Green Lake County was awarded \$111,248 in WLIP grants and retained a total of \$41,648 in local register of deeds document recording fees for land information.

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 Green Lake 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 Green Lake County land information system integrates and enables efficient access to information that describes the physical characteristics of land, as well as the property boundaries and rights attributable to landowners.

Mission of the Land Information Office. In the next three years, Green Lake County's Land Information Office strives to be recognized for its exceptional web mapping site, gains in governmental efficiencies by broadening the utilization of GIS, improvements in parcel mapping accuracy, and responsiveness to meeting the land records needs of residents and businesses.

Land Information Office Projects. To realize this mission, in the next three years, the county land information office will focus on the following projects:

Project	Project Plan for PLSS (Benchmark 4)
Project #1	Oblique Imagery Update
Project #2	Import Surveys into Imaging
Project #3	Move GIS to the Cloud
Project #4	Scan Zoning Records
Project #5	Scan Old Parcel Books and Tax Rolls
Project #6	Land Records Hosting
Project #7	NG911 Updates
Project #8	Education and Public Outreach
Project #9	Multi-function large format printer/scanner

The remainder of this document provides more details on Green Lake County and the WLIP, summarizes current and future land information projects, and reviews the county's status in completion and maintenance of the 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.

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
- Coordinate the sharing of parcel/tax roll data with the Department of Administration in a searchable format determined by DOA under s. 59.72(2)(a)

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 59.72(1)(a)

Any grants received and fees retained for land information through the WLIP must be spent consistent with the county land information plan.

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 made funding available to counties in the form of Strategic Initiative grants to be prioritized for the purposes of parcel/tax roll dataset improvement.

For Strategic Initiative grant eligibility, counties are 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—were determined through a participatory planning process. Current benchmarks are detailed in the WLIP grant application, as will be future benchmarks.

WLIP Benchmarks (For 2016-2021 Grant Years)

- Benchmark 1 & 2 Parcel and Zoning Data Submission/Extended Parcel Attribute Set Submission
- Benchmark 3 Completion of County Parcel Fabric
- Benchmark 4 Completion and Integration of PLSS

More information on how Green Lake County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

County Land Information System History and Context

The Land Information Office (Register of Deeds) and Land Information Committee were established in 1990 by Resolution 30-1990. The Land Use Planning & Zoning Dept. became the Land Information Office by Res. 17-2005 to coincide with the Land Information Officer. The Land Information "Committee" was replaced by the Land Information "Council" by Res. 28-2010.

County Land Information Plan Process

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. The 2022-2023-2024 plan, completed at the end of 2021, is the third post-Act 20 required update.

Plan dates:

1992-1993-1994-1995-1996-1997 Res. 21-1992 1998-1999-2000-2001-2002-2003-2004 Res. 06-1999 2005-2006-2007-2008-2009-2010 Res. 16-2006 2011-2012-2013-2014-2015 2016-2017-2018 2019-2020-2021 2022-2023-2024

County Land Information Plan Timeline

- DOA release of finalized instructions by March 31, 2021.
- April–September 2021: Counties work on land info plans.
- Draft plans due to DOA by September 30, 2021 (but sooner is advised).
- Final plans with county land info council approval due by December 31st, 2021.

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 the priorities, needs, policies, and expenditures of a land information office and advising the county on matters affecting that office.

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

The Land Information Council must have a role in the development of the county Land Information Plan, and DOA requires county Land Information Councils to approve final plans.

This plan was prepared by the county LIO and the Green Lake County Land Information Council as listed below.

Name	Title	Email	Phone
Harley Reabe, Chair	County Board Chair	hreabe@co.green-lake.wi.us	920-294-4031
Renee Thiem-Korth, Vice-Chair	Register of Deeds	rthiemkorth@co.green-lake.wi.us	920-294-4024
Liz Otto, Secretary	County Clerk	lotto@co.green-lake.wi.us	920-294-4010
Paul Gunderson	County Conservationist	pgunderson@co.green-lake.wi.us	920-294-4055
Matt Kirkman	Land Use Planning & Zoning Director	mkirkman@co.green-lake.wi.us	920-294-4175
Don Lenz	County Surveyor	dlenz@co.green-lake.wi.us	920-294-4026
Mark Podoll	Sheriff	mpodoll@co.green-lake.wi.us	920-294-4134
Bob Schneider	Realtor		
Gerald Stanuch	GIS Specialist Land Information Officer	gstanuch@co.green-lake.wi.us	920-294-4174
Amanda Toney	Treasurer/Real Property Lister	atoney@co.green-lake.wi.us	920-294-4019

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 to conduct most mapping and geospatial analysis.

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, this plan places priority

FOUNDATIONAL ELEMENTS

PLSS

Parcel Mapping
LiDAR and Other Elevation Data
Orthoimagery
Address Points and Street Centerlines
Land Use

Zoning

Administrative Boundaries

Other Layers

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.

PLSS

Public Land Survey System Monuments

Layer Status

PLSS Layer Status					
Status/Comments					
Number of PLSS corners (section, ¼, meander) set in original government survey that can be remonumented in your county		1857			
Number of PLSS corners capable of being remonumented in your county that have been remonumented	•	1598			
Number of remonumented PLSS corners with survey grade coordinates (see below for definition) • SURVEY GRADE – coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision • SUB-METER – point precision of 1 meter or better • APPROXIMATE – point precision within 5 meters or coordinates derived from public records or other relevant information		1598			
Number of survey grade PLSS corners integrated into county digital parcel layer	•	1598			
Number of non-survey grade PLSS corners integrated into county digital parcel layer	•	259			
Tie sheets available online?	•	Yes (https://maps.sco.wisc.edu/surveycontrolfinder/)			
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values)	•	100%			
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values) <u>and</u> a corresponding URL path/hyperlink value in the PLSS geodatabase	•	100%			
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	•	0			
Approximate number of PLSS corners believed to be lost or obliterated	•	259			
Which system(s) for corner point identification/ numbering does the county employ (e.g., the Romportl point numbering system known as Wisconsin Corner Point Identification System, the BLM Point ID Standard, or other corner point ID system)?	•	Sequential page number of tie sheet as filed (0001-1858)			
Does the county contain any non-PLSS areas (e.g., river frontage long lots, French land claims, private claims, farm lots, French long lots, etc.) or any special situations regarding PLSS data for tribal lands?	•	No			
Total number of PLSS corners along each bordering county	•	191			
Number of PLSS corners remonumented along each county boundary	•	186			
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	•	186			
In what ways does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	•	Case-by-case basis between County Surveyors and Highway Depts.			

Custodian

County Surveyor

Maintenance

• Field check any corners with a last visited date over 20 years

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 requirement.
- SURVEY GRADE standard from Wisconsin County Surveyor's Association:
 - **SURVEY GRADE** coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision
 - **SUB-METER** point precision of 1 meter or better
 - **APPROXIMATE** point precision within 5 meters or coordinates derived from public records or other relevant information

Other Geodetic Control and Control Networks

e.g., HARN, Height Mod., etc.

Layer Status

NA

Parcel Mapping

Parcel Geometries

Layer Status

- **Progress toward completion/maintenance phase:** In Green Lake County, 100% of the county's parcels are available in a commonly-used digital GIS format.
- **Projection and coordinate system:** WISCRS (Wisconsin Coordinate Reference System)
- **Integration of tax data with parcel polygons:** The county does have a parcel polygon model that directly integrates tax/assessment data as parcel attributes.
- Online Parcel Viewer Software/App and Vendor name: ESRI Web AppBuilder (In-house)
- Unique URL path for each parcel record: Yes

Custodian

County GIS Specialist

Maintenance

 Update Frequency/Cycle: Parcel polygons are updated throughout the year to coincide with property listing

Standards

• **Data Dictionary**: The county Data Dictionary is in the form of a detailed Data Model graphic poster created in Microsoft Visio and exported to PDF

Assessment/Tax Roll Data

Layer Status

- Progress toward completion/maintenance phase: NA
- Tax Roll Software/App and Vendor name: Ascent Land Records Suite by Transcendent Technologies
- Municipal Notes: NA

Custodian

County Treasurer/RPL (Real Property Lister)

Maintenance

 Maintenance of the Searchable Format standard: To maintain the Searchable Format standard, the county will rely on a database view maintained by our tax software vendor. • Searchable Format Workflow: The county maintains parcel/tax roll data in the Searchable Format or close enough to the Searchable Format that little to no human labor is required for the annual submission of parcel/tax roll data to DOA.

Standards

- Wisconsin Department of Revenue Property Assessment Manual and attendant DOR standards
- DOR XML format standard requested by DOR for assessment/tax roll data

Non-Assessment/Tax Information Tied to Parcels

e.g., Permits, Easements, Non-Metallic Mining, Brownfields, Restrictive Covenants

Layer Status

NA

ROD Real Estate Document Indexing and Imaging

Layer Status

- Grantor/Grantee Index: complete back to 1982
- Tract Index:
 - complete back to 1982, earlier hardcopy index is online as a digital document
 - tract indexing is PLSS-based and not parcel PIN-based
 - the county's tract indexing encompasses deed, land contract, mortgage, certified survey map, plat, etc. documents
- Imaging:
 - complete back to 1935
 - indexed only by document#/volume-page between 1982 and 1935
- ROD Software/App and Vendor Name: Laredo/Tapestry by Fidlar

Custodian

County Register of Deeds

Maintenance

daily

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

- Most recent acquisition year: 2018
- **Accuracy:** vertical 19.6 cm at 95% confidence level
- **Post spacing:** 0.7 meters (density 2 points per square meter)
- Contractor's standard, etc.: supports 1-ft contour interval
- Next planned acquisition year: 2026 (8-year period)
- QL1/QL2 acquisition plans: 2018 is 3DEP QL2 (USGS 3D Elevation Program Quality Level 2)

Custodian

GIS Specialist

Maintenance

3DEP program 8-year period. The 5 year ortho projects are produced using the LiDAR data.
 Changes in elevation over time, such as construction, highway projects, grading, and mining may affect the accuracy of the ortho.

Standards

3DEP program

LiDAR Derivatives

e.g., Bare-Earth Digital Terrain Model (DTM), Bare-Earth Elevation Contours, Bare-Earth Digital Elevation Model (DEM), Digital Surface Model (DSM), Hydro-Enforced DEMs, etc.

Layer Status

2 ft DEM

Custodian

GIS Specialist

Maintenance

See LiDAR

Standards

See LiDAR

Other Types of Elevation Data

Layer Status

In-progress

Custodian

GIS Specialist

Maintenance

- Interim area of interest updates between the countywide 8 year LiDAR updates will be done via drone camera imagery processed into elevation models
- Affordable, site specific, high resolution, temporal data acquisition

Standards

- FAA (Federal Aviation Administration) Part 107 Small Unmanned Aircraft Rule
- Lexipol Policy-613 UAS (Unmanned Aerial Systems)

Orthoimagery

Orthoimagery

Layer Status

Most recent acquisition year: 2020

Resolution: 6"

• Contractor's standard: TIF

Next planned acquisition year: 2025

Custodian

GIS Specialist

Maintenance

Update every 5 years

Standards

Contractor

Historic Orthoimagery

Layer Status

1992, 2000, 2005, 2011, 2015

Custodian

GIS Specialist

Maintenance

Archive

Standards

Contractor

Other Types of Imagery

e.g., Oblique Imagery, Satellite Imagery, Infra-red, etc.

Layer Status

In-progress

Custodian

GIS Specialist

Maintenance

- Interim area of interest updates between the countywide 5 year ortho updates will be done via street level imagery with 360 camera hardware, and ortho imagery with drone camera hardware
- Affordable, site specific, high resolution, temporal data acquisition

Standards

- FAA (Federal Aviation Administration) Part 107 Small Unmanned Aircraft Rule
- Lexipol Policy-613 UAS (Unmanned Aerial Systems)

Address Points and Street Centerlines

Address Point Data

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Site/Structure Address Point) 2020
- WLIA Address Point Data Standard 2020
- Code of Green Lake County Chapter 217 Road Names and Building Numbers

Building Footprints

Layer Status

NA

Other Types of Address Information

e.g., Address Ranges

Layer Status

NA

Street Centerlines

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

Wisconsin GIS NG9-1-1 Data Standard (Road Centerline) 2020

- WLIA Street Centerline Data Standard 2020
- Code of Green Lake County Chapter 217 Road Names and Building Numbers

Rights of Way

Layer Status

- In-progress
- **How maintained:** Attribute of parcel lines

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

DOT

Trails

e.g., Recreational Trails, Snowmobile Trails

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

DNR

Land Use

Current Land Use

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

• In sync with Comp plan

Standards

• Code of Green Lake County Part III Land Use Legislation

Future Land Use

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

• In sync with Comp plan

Standards

• s. 66.1001, Wis. Stats. Comprehensive planning.

Zoning

County General Zoning

Layer Status

• The County does maintain a GIS representation of county general zoning boundaries.

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

Code of Green Lake County Part III Land Use Legislation

Shoreland Zoning

Layer Status

• The County does maintain a GIS representation of county shoreland zoning boundaries.

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

• Code of Green Lake County Part III Land Use Legislation

Farmland Preservation Zoning

Layer Status

- The County does maintain a GIS representation of county farmland preservation zoning boundaries.
- Year of certification: Oct. 11, 2017 (updated to reflect re-zones since certification)

Custodian

GIS Specialist

Maintenance

• Updated to reflect re-zones since certification

Standards

Code of Green Lake County Part III Land Use Legislation

Floodplain Zoning

Layer Status

- The County does maintain a GIS representation of floodplain zoning boundaries.
- The county's floodplain zoning GIS data is the same as/identical to the FEMA map.

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

Code of Green Lake County Part III Land Use Legislation

Airport Protection

Layer Status

Not administered by county.

Municipal Zoning Information Maintained by the County

e.g., Town, City and Village, Shoreland, Floodplain, Airport Protection, Extra-Territorial, Temporary Zoning for Annexed Territory, and/or Zoning Pursuant to a Cooperative Plan

Layer Status

Extra-Territorial boundary lines

Custodian

GIS Specialist

Maintenance

On going

Standards

Municipal

Administrative Boundaries

Civil Division Boundaries

e.g., Towns, City, Villages, etc.

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

Survey Grade PLSS

School Districts

Layer Status

- Complete
- Parcels are dissolved based on the tax roll school district attribute. They are not based on any legal written description of the school district boundaries, nor is any such description known to exist. It is unknown how the school district attribute was originally assigned on the tax roll.
- School district name is the only attribute

Custodian

GIS Specialist

Maintenance

• School district boundaries have never changed since modern assessment records

Standards

Accuracy dependent on parcel mapping

Election Boundaries

e.g., Voting Districts, Precincts, Wards, Polling Places, etc.

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Updated with Census

Standards

Accuracy dependent on parcel mapping

Utility Districts

e.g., Water, Sanitary, Electric, etc.

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

Transmission networks only - distribution networks maintained by utilities

Emergency Service Boundary – Law/Fire/EMS

Layer Status

- Law Enforcement: Complete
- **Fire:** Complete
- **EMS:** Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Emergency Service Boundary)
- Based on outside service agreements

Public Safety Answering Points (PSAP) Boundary

Layer Status

- Complete
- **PSAP Boundary:** PSAP boundary is the same as/coincident with the county boundary

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

- Wisconsin GIS NG9-1-1 Data Standard (PSAP Boundary)
- Based on outside service agreements

Provisioning Boundary

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Provisioning Boundary)
- Based on outside service agreements

Other Public Safety

e.g., Healthcare Facilities

Layer Status

NA

Lake Districts

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Changes are recorded with the Register of Deeds

Standards

Based on recorded legal descriptions

Native American Lands

Layer Status

NA

Other Administrative Districts

e.g., County Forest Land, Parks/Open Space, etc.

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

Accuracy dependent on parcel mapping

Other Layers

Hydrography Maintained by County or Value-Added

e.g., Hydrography maintained separately from DNR or value-added, such as adjusted to orthos; Elevation-Derived Hydrography

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

Based on LiDAR hydro breaklines

Cell Phone Towers

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

• Based on FCC ASR (Antenna Structure Registration)

Bridges and Culverts

Layer Status

Complete

Custodian

GIS Specialist

Maintenance

Ongoing

Standards

• DOT bridges plus local data

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.

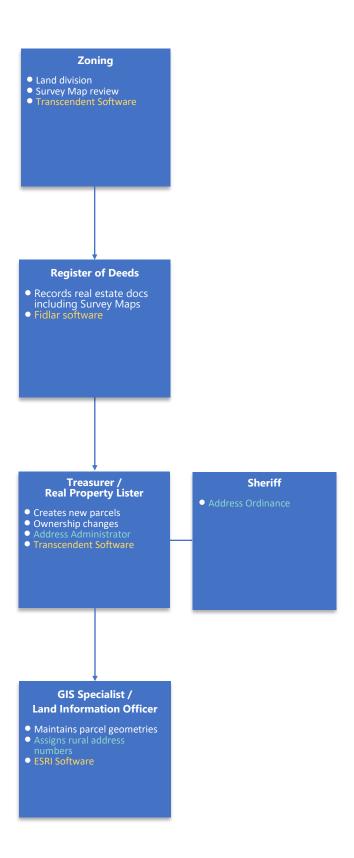
One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

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

County Parcel Data Workflow Diagram



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.

Hardware

- Three local servers GIS, Register of Deeds, Treasurer
- AR Sandbox for public outreach and education
- County currently uses ArcGIS Pro: Yes, county has an ArcGIS Pro license
- County plans to upgrade to ArcGIS Pro: No, county uses ArcMap in production

Software

ESRI ArcGIS

Website Development/Hosting

- In-house GIS mapping website
- Contracted Register of Deeds' document access Tapestry & Laredo
- Contracted Treasurer's web portal Transcendent Ascent Land Records Suite
- Contracted Zoning web portal Transcendent Ascent Permit Management Suite

Metadata and Data Dictionary Practices

Metadata Creation

• **Metadata creation and maintenance process:** The county Data Dictionary is in the form of a detailed Data Model graphic poster created and maintained in Microsoft Visio software

Metadata Software

- Metadata software: ESRI ArcGIS
 - The software does generate metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata, and ISO geographic metadata standard 19115.
- Metadata fields manually populated: NA

Metadata Policy

• Metadata Policy: FGDC Standard

Municipal Data Integration Process

• The county GIS maintains parcel, address point, street centerline, and other base mapping for the municipalities. This mapping is generally distributed to the municipalities, rather than the county obtaining data from the municipalities

Public Access and Website Information

Public Access and Website Information (URLs)

Public Access and Website Information				
GIS Webmapping Application(s)		D 10		
Link - URL	GIS Download Link – URL	Real Property Lister Link - URL	Register of Deeds Link - URL	
https://gis.co.green-	https://gis.co.green-	https://ascent.co.green-	https://tapestry.fidlar.com/Tapestry2/	
lake.wi.us/gisweb/GIS_Viewer/	lake.wi.us/gisweb/doc/download/Op	lake.wi.us/LandRecords/		
	enData/			

Single Landing Page/Portal for All Land Records Data

URL

https://gis.co.green-lake.wi.us/gisweb/gallery/

Web Services/REST End Points

URL

https://gis.co.green-lake.wi.us/arcgis/rest/services

Data Sharing

Data Availability to Public

Data Sharing Policy

- Green Lake County will provide a no-fee means of accessing land information through the websites listed above
- Public terminals for land information access are available in the Government Center
- Public internet access is also available at most public libraries
- Data in its original format is available on media with a fee to the requester for the actual cost to reproduce the data

Open Records Compliance

Green Lake County complies with Wisconsin's Open Records Law

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions

 Green Lake County imposes no restrictions on the use or distribution of public land information

Government-to-Government Data Sharing

 Parcel, address, road, five year ortho updates, and LiDAR are available to municipalities within the county upon request

Training and Education

 All county web applications display county contact phone numbers and emails for individual help using county public access web sites or interpreting the data on the websites

4 CURRENT & FUTURE PROJECTS

This chapter lists the current and future land information projects the county is currently undertaking or intends to pursue over its planning horizon. A project is defined as a temporary effort that is carefully planned to achieve a particular aim. Projects can be thought of as the *means* to achieving the county's mission for its land information system.

Project Plan for PLSS (Benchmark 4)

Project Title: Project Plan for PLSS (Benchmark 4)

Project Description/Goal

Planned Approach

 Contract annually as budget allows for PLSS remonumentation with survey grade GPS coordinates for all corners in the county - integrating corners into the parcel fabric will be done in-house by the GIS Specialist

Current Status

- Tally of the total number of corners: See PLSS Layer Status table in Chapter 2
- Remonumentation status: See PLSS Layer Status table in Chapter 2
- Coordinate status (accuracy class) if known: See PLSS Layer Status table in Chapter 2

Goals

- Number of corners to be remonumented and/or rediscovered:
 - 2020/52, 2021/71, 2022/68, 2023/68
- Number to have new coordinates established: all
- Accuracy class for these new coordinates: Survey Grade
- Way in which these points will be integrated into the parcel fabric: In-house

Missing Corner Notes

Documentation for any missing corner data: Current plan is to remonument all corners

County Boundary Collaboration

 The County Surveyor and Highway Commissioner will work with neighboring counties to maintain new or existing PLSS including those corners affected by Highway projects

Business Drivers

- The Project Plan for PLSS is a requirement for those counties who utilize Strategic Initiative funds for work related to PLSS completion and integration.
- The public expects accurate boundary lines to display on the county map website
- Not only land owners, but realtors, assessors, appraisers, title companies, banks, and other public and private agencies make use of accurate parcel boundaries
- It would be ideal to have all areas of the county mapped to the same level of accuracy

Objectives/Measure of Success

The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by 2025

Project Timeframes

Timeline – Project Plan for PLSS			
Milestone	Duration	Date	
89% of PLSS remonumented	2 year	Jan. 1, 2020 - Dec. 31, 2021	
93% of PLSS remonumented	2 year	Jan. 1, 2021 - Dec. 31, 2022	
96% of PLSS remonumented	2 year	Jan. 1, 2022 - Dec. 31, 2023	
100% of PLSS remonumented	2 year	Jan. 1, 2023 - Dec. 31, 2024	

Responsible Parties

Contractor & GIS Specialist

Estimated Budget Information

• See table at the end of this chapter.

Project #1: Oblique Imagery Update

Project Description/Goal

- Collect new oblique imagery every 5 years
- Land Info Spending Category: Orthoimagery

Business Drivers

- High resolution aerial imagery is used in planning, conservation, real estate activities, recreation, emergency management, and navigation
- Older images are archived as a historical record
- Regular data collection needed for temporal analysis such as change detection of land and land features
- Used to verify changes in LiDAR
- Obliques vital to Public Safety & Emergency Management, Land Use Planning & Zoning, and Land Conservation departments

Objectives/Measure of Success

Project completion marked by Obliques being available for viewing online locally and by the public

Project Timeframes

Timeline – Project #1: Oblique Imagery Update			
Milestone	Duration	Date	
3	9 months	April - Dec, 2020	
process through the summer			
QC and finalize by the fall			

Responsible Parties

Contractor

Estimated Budget Information

• See table at the end of this chapter.

Project #2: Import Surveys into Imaging

Project Description/Goal

- Migrate survey images into Register of Deeds imaging system
- Land Info Spending Category: Other Parcel Work

Business Drivers

- Outdated "Survey Records Search" application requires upgrading
- Leverage existing and modern Register of Deeds imaging system

Objectives/Measure of Success

- Safe long term storage of survey documents
- Convenient access to documents

Timeline – Project #2: Import Surveys into Imaging			
Milestone	Duration	Date	
Study current storage method fall of 2021 for possible 2022 project	6 months	Oct 2021 – Mar 2022	

Responsible Parties

Imaging Vendor

Estimated Budget Information

• See table at the end of this chapter.

Project #3: Move GIS to the Cloud

Project Description/Goal

- Move GIS from local server to cloud hosting
- Land Info Spending Category: Software

Business Drivers

- Eliminate need for local server maintenance and upgrades
- Scalability of mapping website public access
- Remote access supports the departments "Continuation of Operations Plan"

Objectives/Measure of Success

- Decommissioning of local server
- New documented workflow for cloud based GIS SOP's (Standard Operating Procedures)
- Strong ESRI ArcGIS presence

Project Timeframes

Timeline – Project #3: Nutrient Management Planning Software			
Milestone	Duration	Date	
Spring install of software moving into production status by fall	6 months	April - Sept, 2022	

Responsible Parties

GIS Specialist

Estimated Budget Information

• See table at the end of this chapter.

Project #4: Scan Zoning Records

Project Description/Goal

- Scan and index zoning records and make them available to the public over the internet
- Land Info Spending Category: Other Parcel Work

Business Drivers

- Zoning officials need remote access to documents as part of the departments "Continuation of Operations Plan"
- Paper documents need an improved archival storage and retrieval system

Objectives/Measure of Success

- Safe long term storage of paper documents
- Proven ease of access to documents

Timeline – Project #4: Scan Zoning Records			
Milestone	Duration	Date	
Study current storage method fall of 2021 for possible 2022 project	6 months	Oct 2021 – Mar 2022	

Responsible Parties

Contractor

Estimated Budget Information

• See table at the end of this chapter.

Project #5: Scan Old Parcel Books and Tax Rolls

Project Description/Goal

- Scan old parcel map books for archival storage and retrieval
- Land Info Spending Category: Digital Parcel Mapping

Business Drivers

- Land Records officials need remote access to documents as part of the departments "Continuation of Operations Plan"
- Paper documents need an improved archival storage and retrieval system

Objectives/Measure of Success

- Safe long term storage of paper documents
- Proven ease of access to documents

Project Timeframes

Timeline – Project #4: Scan Zoning Records			
Milestone	Duration	Date	
Study current storage method fall of 2022 for possible 2023 project	6 months	Oct 2022 – Mar 2023	

Responsible Parties

Contractor

Estimated Budget Information

• See table at the end of this chapter.

Project #6: Land Records Hosting

Project Description/Goal

- Migrate from iDoc to AVID software
- Land Info Spending Category: Software

Business Drivers

- Need for improved digital recording
- Improved precision and accuracy in data entry
- Improved integration with Treasurer's recently update software
- Off-site hosting supports the departments "Continuation of Operations Plan"

Objectives/Measure of Success

- Improved software ease of use and added functionality for customers
- Improved integration and compatibility with other applications
- Maintain level of revenue from document fees

Timeline – Project #5: Land Records Hosting			
Milestone	Duration	Date	
Spring install of software moving into production status by fall	12 months	Jan - Dec, 2021	

Responsible Parties

Land Records Software Vendor

Estimated Budget Information

• See table at the end of this chapter.

Project #7: NG911 Updates

Project Description/Goal

- Update Address Point & Street Centerline layers to support the NG911 data model
- Land Info Spending Category: Address Points & Street Centerlines

Business Drivers

- Use standard data model so data can be merged at the state level
- Meet data requirements of NG911 software

Objectives/Measure of Success

- Accurate address mapping of 911 calls in dispatch center
- Improved integration and compatibility with other counties

Project Timeframes

Timeline – Project #6: NG911 Updates					
Milestone	Duration	Date			
Deadlines for NG911 not definite	12 months	Jan - Dec, 2023			

Responsible Parties

GIS Specialist

Estimated Budget Information

• See table at the end of this chapter.

Project #8: Education and Public Outreach

Project Description/Goal

- Develop and maintain County Land Information outreach display
- Present outreach display at annual County Fair
- Land Info Spending Category: Training and Education

Business Drivers

- Educate public on land information services available
- Educate public on use of services

Objectives/Measure of Success

- High number of display visitors
- Productive interaction of public with display
- Productive feedback on display content

Project Timeframes

Timeline – Project #7: Education and Public Outreach					
Milestone	Duration	Date			
Annual county fair display early August	repeating	Aug, 2022-2023-2024			

Responsible Parties

Land Information Officer

Estimated Budget Information

• See table at the end of this chapter.

Project #9: Multi-function large format printer/scanner

Project Description/Goal

- Replace large format printer
- Subscribe to annual support contract
- Replenish printer supplies such as ink cartridges, printer heads, and paper rolls
- Land Info Spending Category: Hardware

Business Drivers

- Nearing end of current printer production and support lifecycle
- Minimize downtime of print services due to mechanical failure

Objectives/Measure of Success

- Consistent large format printing with limited downtown
- Improved economy of printing

Project Timeframes

Timeline – Project #8: Multi-function large format printer/scanner					
Milestone	Duration	Date			
Begin trial program early fall and complete purchase at end of trial period	4 months	Sept - Dec, 2024			

Responsible Parties

Vendor

Estimated Budget Information

• See table at the end of this chapter.

Project #10: GPS Hardware

Project Description/Goal

- Purchase additional GPS unit for the Land Conservation Dept.
- Transfer current GPS unit to the Highway Dept.
- Land Info Spending Category: Hardware

Business Drivers

- Nearing end of current GPS production and support lifecycle
- Minimize conservation project delays due to GPS hardware problems
- Current GPS does not support iPad iOS, it only supports Android
- This GPS equipment is also used at times for GIS data collection and Emergency Management damage assessment

Objectives/Measure of Success

- Integration of GPS technology throughout multiple depts.
- Improved accuracy of project mapping

Timeline – Project #8: Multi-function large format printer/scanner					
Milestone	Duration	Date			
Begin demo program early fall and complete purchase at end of trial period	4 months	Sept - Dec, 2022			

Responsible Parties Vendor

Estimated Budget InformationSee table at the end of this chapter.

Estimated Budget Information (All Projects)

			Land Info Plan Citations	
Project Title	Item	Unit Cost/Cost	Page # or section ref.	Project Total
Project Plan for PLSS (Benchmark 4)	90% PLSS remonumentation	\$1,240 X 250 = \$310,000		_
	with survey grade GPS	Grothman contract		
	coordinates	#10,000 V 2 #20,000		
	Integrate PLSS with parcel	\$10,000 X 3 years = \$30,000		_
	mapping	In-house GIS Specialist		\$340,000
				73-10,000
1) Oblique Imagery Update	Contract with EagleView	\$100,000	Page 23	_
				\$100,000
2) Import Surveys into Imaging	Contract with Fidlar	\$15,000	Page 23	<u> </u>
			J	\$15,000
				\$15,000
3) Move GIS to the Cloud	Contract with ESRI	\$30,000	Page 24	_
				\$30,000
4) Scan Zoning Records	Contract with Intern	\$25,000		_
-, <u>-</u>		7-3/		ć2F 000
				\$25,000
5) Scan Old Parcel Books and Tax Rolls	Contract with Fidlar	\$10,000		_
				\$10,000
6) Land Records Hosting	Contract with Transcendent	\$75,000	Page 24	_
	Contract with Transcendent	773,000	rage 24	
				\$75,000
7) NG911 updates	Contract with GeoComm	\$50,000		_
				\$50,000
8) Education and Public Outreach	Booth Displays	\$2000 x each of 3 years	Page 25	_
	DOUTH Displays	\$2000 x cacif of 5 years	rage 23	
				\$6,000
9) Multi-function large format	HP printer	\$10,000	Page 26	_
printer/scanner	Annual HP Support	\$2000 x each of 3 years		
	HP supplies	\$1000 x each of 3 years		
				\$19,000
10) GPS Hardware	Turning Point – Carlson	\$15,000		
	Seiler – Trimble	\$5,000		
				\$20,000

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