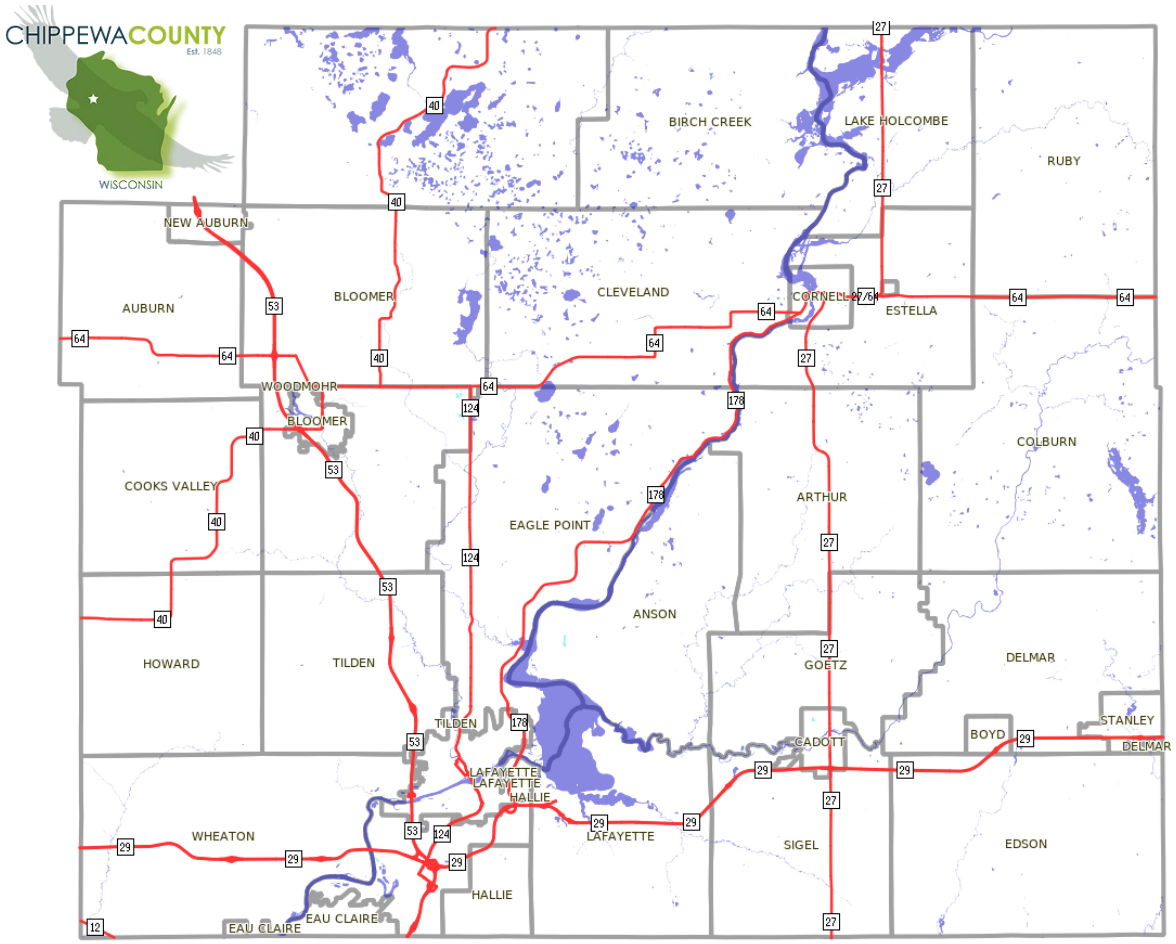
CHIPPEWA COUNTY
Land Information Plan
2022-2024



Prepared By:

Douglas Clary, LIO
and
Samuel I. Wenz, County Surveyor

Chippewa County Department of Planning & Zoning
Land Records Division
711 N. Bridge Street, Room 009
Chippewa Falls, WI 54729

Version: 2021-12-27
Approved/Adopted by Land Information Council on 12/16/2021:

CONTENTS

EXECUTIVE SUMMARY 3

1 INTRODUCTION 4

2 FOUNDATIONAL ELEMENTS 7

PLSS 8
Parcel Mapping 9
LiDAR and Other Elevation Data 11
Orthoimagery 12
Address Points and Street Centerlines 12
Land Use 13
Zoning 14
Administrative Boundaries 15
Other Layers 17

3 LAND INFORMATION SYSTEM 19

Public Access and Website Information 23

4 CURRENT & FUTURE PROJECTS 24

Project Plan for PLSS Remonumentation 25
Project Plan for Orthophoto and Oblique Imagery 26
Project Plan for replacement of Real Estate Tax Listing & Land Use Permitting Programs/Software 26
Project Plan for Website Development and Hosting 27
Project Plan of Indexing of Documents by Geographical Location 27
Project Plan to produce a Hydrographic Layer with Navigable Streams 28
Project Plan to produce a Building Footprint Layer 28
Project Plan for Mobile GPS/GIS Technology 29
Project Plan for Document Indexing 29
Project Plan for Historical Tax Rolls Scanning 30

5 ESTIMATED BUDGET INFORMATION 31

6 APPENDIX A - DATASETS 32

7 APPENDIX B – LIC APPROVAL 33

EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Chippewa County prepared by the land information officer (LIO) and the Chippewa 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 partially funded tax levy dollars, document recording fees and state sponsored grants. Chippewa County retained a total of $134,328 in local register of deeds document recording fees for land information in State Fiscal Year 2021 and will most likely be awarded $60,000 for the 2022 WLIP Strategic Initiative Grant.

This plan lays out how funds from grants and retained fees may be prioritized. However, as the Land Records budget is approved on an annual basis, this plan provides only estimated figures that are subject to change and are designed to serve for planning purposes only. The funding and completion of the projects is directly related to the ability to maintain the existing level of funding.

Land Information in Chippewa 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 Chippewa 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 Division. In the next three years, Chippewa County's Land Information Division strives to be recognized for its accurate and comprehensive land information database and internet tools that will not only benefit county employees in their daily duties, but will also benefit local municipalities, businesses and citizens of Chippewa County. Chippewa County strives to be recognized for its economical open-source 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:

Chippewa County Land Information Projects: 2022-2024	
Project #1	PLSS Remonumentation
Project #2	Orthophoto and Oblique Imagery
Project #3	Real Estate Tax Listing & Land Use Permitting Programs/Software
Project #4	Website Development and Hosting
Project #5	Indexing of Documents by Geographical Location
Project #6	Hydrographic Layer with Navigable Streams
Project #7	Building Footprint Layer
Project #8	Mobile GPS/GIS Technology
Project #9	Document Indexing (Register of Deeds)
Project #10	Historical Tax Roll Scanning (County Treasurer)

The remainder of this document provides more details on Chippewa 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.

> **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)*

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)

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 2022-2024 Grant Years)

- Benchmark 4 – Completion and Integration of PLSS
- Benchmark 3 – Revisions to the County Parcel Fabric based on the completion of Benchmark 4

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

County Land Information System History and Context

The previous land records modernization plans focused on the following items:

1. Completing and maintaining the in house digital tax parcel mapping program.
2. Updating and maintaining the public land survey system corner markers.
3. Continued upgrading of the digital photo imagery for countywide coverage.
4. Improving the county zoning and planning system by implementing a document storage and retrieval system linked to the GIS system.
5. Improve the document imaging in the Register of Deeds office by implementing 30 to 50 year back conversion of documents from microfilm to optical disk. Rescan missing, incomplete or poor quality documents from conversion. Clean up of legal descriptions on older documents. Microfilm documents not scanned. Update hardware and software for imaging as needed.
6. Create and maintain the internet web sites for the various Chippewa County departments.
7. Improve the utility of web-based GIS.
8. Geo-referencing of survey maps county wide.
9. Website development and hosting for improved access to land records.

County Land Information Plan Process

County land information plans were initially updated every five years. However, as a result of Act 20, counties were required to update and submit their plans to DOA for approval every three years starting with the 2016-2018 plan. The 2022-2024 plan, completed at the end of 2021, is the third post-Act 20 required update.

County Land Information Plan Timeline

- Comments on draft instructions due by March 19, 2021.
- 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).** For the review process, counties submit draft plans for review and approval no later than September 30th. Please allow a month for review of the draft plan. As with the last update, county peer review and comments will be encouraged, but voluntary and non-binding.
- **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 the following:

- 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

- 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 County Surveyor, the Chippewa County Land Information Council, and others as listed below.

Chippewa County Land Information Council and Plan Workgroup

Name	Title	Affiliation	Email	Phone
+ Douglas Clary	Planning and Zoning Director	Planning and Zoning - LIO	dclary@co.chippewa.wi.us	715-726-7941
+ Melanie McManus	Register of Deeds	Register of Deeds Office	mmcmanus@co.chippewa.wi.us	715-726-7993
+ Patricia Schimmel	Treasurer	Treasurer's Office	pschimmel@co.chippewa.wi.us	715-726-6113
+ Jean Krumenauer	Real Property Lister	Treasurer's Office	jkrumenauer@co.chippewa.wi.us	715-726-7831
+ David Eisenhuth	County Board Member	Land Information Council Chairman	deisenhuthi@co.chippewa.wi.us	715-2828-8387
+ vacant	Realtor			
+ Russell Bauer	Emergency Management Director	Emergency Government	rbauer@co.chippewa.wi.us	715-726-7728
+ Samuel Wenz	County Surveyor	Planning & Zoning – Land Records Division	swenz@co.chippewa.wi.us	715-726-7931
+ Dennis Falkenberg	GIS Coordinator	Planning & Zoning – Land Records Division	dfalkenberg@co.chippewa.wi.us	715-738-2595
Dan Masterpole	Land Conservationist	Land Conservation and Forest Management	dmasterpole@co.chippwa.wi.us	715-726-4590
Andy Bauer	Information Technology Director	Information Technology	chaun@co.chippewa.wi.us	715-726-7896

+ Land Information Council Members designated by the plus symbol

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.

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, this plan places 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.

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	• 3384
Number of PLSS corners capable of being remonumented in your county that **have been remonumented**	• 3247
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	• 2892
Number of survey grade PLSS corners integrated into county digital parcel layer	• 2892
Number of non-survey grade PLSS corners integrated into county digital parcel layer	• 464
Tie sheets available online?	• Yes, https://mapping.co.chippewa.wi.us
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) **and 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	• 79
Approximate number of PLSS corners believed to be lost or obliterated	• 113
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)?	• Chippewa County numbers the corners starting at the northwest corner of the county being number 1 with increasing numbers as you go East. The next tier of corners continues the numbering starting at the westernmost corner and again increasing as you go east.
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	• Eau Claire-73 Dunn-52 Barron-25 Rusk-67 Taylor-38 Clark-25
Number and percent of PLSS corners remonumented along each county boundary	• EC-73 Dunn-50 Barron-25 Rusk-65 Taylor-38 Clark-24 100% 96% 100% 96% 100% 96%
Number and percent of remonumented PLSS corners along each county boundary with survey grade coordinates	• EC-70 Dunn-50 Barron-24 Rusk-65 Taylor-38 Clark-24 96% 100% 96% 100% 100% 100%
In what ways does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	• All of the surrounding counties collaborate. We keep each other informed on monumentation efforts.

Custodian

- Chippewa County Surveyor – Land Records Division.

Maintenance

- The PLSS Monuments layer is updated weekly. New records are merged with the old records which builds a historical timeline of work performed on each corner.

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

Chippewa County Geodetic Control Network

Layer Status

- Locations of monuments and coordinate values are shown on the web mapping site

Custodian

- Local Control = Department of Planning & Zoning: Land Records Division
- HARN = Wisconsin Department of Transportation

Maintenance

- Local Control = Department of Planning & Zoning: Land Records Division
- HARN = Wisconsin Department of Transportation

Standards

- Local Control = Horizontal FGCS 2nd Order, class 1 accuracy, Published on Wisconsin County Coordinate System - North American Datum of 1983 (1991)
- HARN = Horizontal FGCS B-order or 1st Order accuracy, Published on North American Datum of 1983 (2007) – NAD83(NSRS2007)

Parcel Mapping

Parcel Geometries

Layer Status – MAINTENANCE PHASE

- **Progress toward completion/maintenance phase:** In Chippewa County, 100% of the county's parcels are available in a commonly-used digital GIS format.
- **Projection and coordinate system:** Chippewa County parcels are projected in the Wisconsin County Coordinate System (WCCS) Chippewa County Grid - North American Datum of 1983 (1991)
- **Integration of tax data with parcel polygons:** Chippewa County does have a parcel polygon model that directly integrates tax/assessment data as parcel attributes.
- **Esri Parcel Fabric/LGIM Data Model:** The county **does not** use or plan to implement the Esri Parcel Fabric Data Model, and/or Esri's Local Government Information Model.
- **Online Parcel Viewer Software/App and Vendor name:** Geomoose which is supported by the contractor Houston Engineering Inc.
- **Unique URL path for each parcel record:** Yes, https://mapping.co.chippewa.wi.us/?call=search_parcels_taxnum&value0=**
  Yes, the link is stable and can be used from any application to link to the web mapping site.
  Yes, the link is exportable. When using the unique URL path a portion of the assessment roll data is immediately available on the mapping site and a link to the assessment roll is also available to view the full assessment data set.

Custodian

- GIS Coordinator, Land Records Division

Maintenance

- **Update Frequency/Cycle**. Parcel polygons are updated weekly.

Standards

- **Data Dictionary**: Chippewa County maintains a Data Dictionary in XML format for parcel attributes listed in s. 59.72(2)(a) which is a human-readable form, with thorough definitions for each element/attribute name, and explanations of any county-specific notations.

Assessment/Tax Roll Data

Layer Status – MAINTENANCE PHASE

- **Progress toward completion/maintenance phase:** NA
- **Tax Roll Software/App and Vendor name:** Chippewa County utilizes LandNav Suite from GCS Software Inc. to prepare assessment and tax roll data and tax bills. The information is available online.
- **Municipal Notes:** NA

Custodian

- Chippewa County Treasurer

Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the Property Lister will continue to work with the Land Records Division to clean up parcel anomalies between the assessment/tax roll and the GIS mapping. The Property Lister will continue to work with the 911 GIS/Database Manager to ensure that all site addresses are identified and accurate on the assessment/tax roll.
- **Searchable Format Workflow:** The County maintains parcel/tax roll data in such a way that **requires significant formatting every year**—whether by the county staff in-house, or a third-party contractor/vendor.

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, Non-Metallic Mining, Brownfields, Restrictive Covenants

(See Appendix A)

ROD Real Estate Document Indexing and Imaging

Layer Status

- **Grantor/Grantee Index:** Chippewa County uses Fidlar Technologies as a software vendor. A digitized grantor/grantee index from 1850 forward with continued quality control of previous conversion. All real estate land record related documents are scanned from 1800's to present. Conversion quality control, indexing and tract information has yet to be completed.
  - **Tract Index:** PLSS-based tract index requiring pin #'s on all documents transferring property.
    - Status: All real estate land record documents are scanned. 1957 back to 1800's conversion require indexing. Integrated Fidlar product Monarch with tax assessment for all documents transferring property to link legal description and pin.
    - Tract index is both parcel PIN-based and PLSS-based.
    - Tract indexing encompasses; Plats, CSM's, Condominiums and all real estate land record documents (deeds, mortgages, satisfactions, easements, covenants, right of way, metallic mining, UCC's, restrictive covenants, declarations liens and many more)
  - **Imaging:** All real estate land record documents are scanned including index books.

- **ROD Software/App and Vendor Name:** Laredo/Tapestry – from Fidlar. ROD documents are available online in Chippewa County through Laredo and Tapestry and public terminals in the ROD Department.

Custodian

- Chippewa County Register of Deeds

Maintenance

- All digitized records backed up off site. Users provide assistance in quality control of data. Software vendor (Fidlar) reviews for technology updates.

Standards

- s. 59.43, Wis. Stats. Register of deeds; duties, fees, deputies.
- ch. 706, Wis. Stats. Conveyances of real property; Recording; Titles.
- ch. 236.25 & 236.34 Recording of Plats and Certified Survey Maps.
- Wisconsin Register of Deeds indexing guidelines.
- Office handbook – indexing standards.

LiDAR and Other Elevation Data

LiDAR

Layer Status - COMPLETE

- **Most recent acquisition year:** 2020
- **Accuracy:** 1 foot contour interval
- **Post spacing:** 2.0 ft. grid size
- **Contractor's standard, etc.:** USGS 3DEP Program QL2 with upgrades. Consultant is AYRES Associates – Hydro Breaklines for water bodies shown are 1 acre or larger and 8 feet and wider streams.
- **Next planned acquisition year:** 2028

Custodian

- GIS Coordinator- Land Records Division

Maintenance

- This layer is static with updates every 8-10 years.

Standards

- USGS LiDAR Base specifications (ver. 1.3, February 2018).
- Vertical accuracies comply with Table 2.3 of Procedure Memorandum No. 61-Standards for LiDAR and Other High Quality Digital Topography for an Equivalent Contour Accuracy of 1 foot.

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 - COMPLETE

- LAS Files and a digital Elevation Model are background files that are not displayed in the GIS

Custodian

- GIS Coordinator- Land Records Division

Maintenance

- No maintenance

Standards

- USGS LiDAR Base specifications (ver. 1.3, February 2018).

- Vertical accuracies comply with Table 2.3 of Procedure Memorandum No. 61-Standards for LiDAR and Other High Quality Digital Topography for an Equivalent Contour Accuracy of 1 foot.

Orthoimagery

Orthoimagery

Layer Status - COMPLETE

- **Most recent acquisition year:** 2020 and 2021
- **Resolution:** 2020=6 inch pixels county-wide; 2021=3 inch pixels in neighborhood areas
- **Contractor's standard:** Contractor was Pictometry
- **Next planned acquisition year:** 2023

Custodian

- GIS Coordinator- Land Records Division

Maintenance

- Proposed update cycle is every three years

Standards

- 6 inch pixels or better

Historic Orthoimagery

(See Appendix A)

Oblique Imagery

(See Appendix A)

Address Points and Street Centerlines

Address Point Data

Layer Status - COMPLETE

- 100% Complete\Currently adding some NG911 attribute fields per the Wis GIS NG9-1-1 Data Standard.

Custodian

- Chippewa County Emergency Management Department \ 911 GIS Coordinator

Maintenance

- Monthly maintenance & updates pushed to the Chippewa Co 911 Emergency Communications Center

Standards

- Wis GIS NG9-1-1 Data Standard.

Building Footprints

Layer Status

- Not in progress - Chippewa County does not have a building footprint layer.

Custodian

- Chippewa County Emergency Management Department \ 911 GIS Coordinator

Maintenance

- TBD

Standards

- Wisconsin GIS NG9-1-1 Data Standard. (Site/Structure Address Point)

Street Centerlines

(See Appendix A)

Layer Status – MAINTENANCE PHASE

Custodian

- GIS Coordinator

Maintenance

- As needed.

Standards

- Mapping grade

Street Centerlines (Public Safety 911 Center Version)

Layer Status

- 50% Complete. Converting the existing Street Centerlines (GIS Grade 100% Complete) into NG911 Street Centerline format and attribution.

Custodian

- Chippewa County Emergency Management Department \ 911 GIS Coordinator

Maintenance

- Quarterly maintenance & updates pushed to the Chippewa Co 911 Emergency Communications Center.

Standards

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

Rights of Way

Layer Status – MAINTENANCE PHASE

- As part of the parcel layer

Custodian

- GIS Coordinator

Maintenance

- As needed.

Standards

- Mapping grade – R/W's taken from parcel geometry.

Trails

(See Appendix A)

Layer Status – MAINTENANCE PHASE

Custodian

- GIS Coordinator

Maintenance

- Annual and as needed.

Standards

- Mapping grade – R/W's taken from parcel geometry.

Land Use

Current Land Use

Layer Status - COMPLETE

- Developed for the 2010 Comprehensive Plan

Custodian

- Director of Planning and Zoning

Maintenance

- Every 5 years or to coincide with a Comprehensive Plan update

Standards

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

Future Land Use

Layer Status - COMPLETE

- Future Land use maps were developed by the municipalities for the 2010 Comprehensive Plans

Custodian

- Director of Planning and Zoning

Maintenance

- Every 5 years or to coincide with a Comprehensive Plan update

Standards

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

Zoning

County General Zoning

Layer Status – MAINTENANCE PHASE

Custodian

- Director of Planning and Zoning
- GIS Coordinator

Maintenance

- Bi-yearly or as needed.

Standards

- Mapping grade accuracy with every parcel in the zoned areas having an identification.

Shoreland Zoning

Layer Status

- Administered by county, but this layer is not in GIS format.

Farmland Preservation Zoning

Layer Status

- This layer was created for the 2015 Farmland Preservation Plan. Towns have not enacted any type of Farmland Preservation Zoning Ordinances.

Custodian

- Director of Planning and Zoning
- GIS Coordinator

Maintenance

- As needed.

Standards

- A seven step process was developed to remove and add parcels eligible for the farmland preservation credit.

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 Coordinator

Maintenance

- FEMA

Standards

- FEMA

Airport Protection

Layer Status

- The County does maintain a GIS representation of airport protection zoning boundaries.
- Airport protection zoning map depicts: Height limitation restrictions.

Custodian

- Eau Claire County

Maintenance

- Eau Claire County

Standards

- Unknown

Municipal Zoning Information Maintained by the County

Layer Status – MAINTENANCE PHASE

- The County maintains zoning information for the Village of Lake Hallie and the Town of Bloomer. Note: Town of Bloomer has adopted a town zoning ordinance.

Custodian

- Director of Planning and Zoning
- GIS Coordinator
- Town of Bloomer Zoning Administrator

Maintenance

- Bi-yearly or as needed.

Standards

- Mapping grade accuracy with every parcel in the zoned areas having an identification.

Administrative Boundaries

Civil Division Boundaries

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

Layer Status – MAINTENANCE PHASE

Custodian

- GIS Coordinator

Maintenance

- As needed.

Standards

- Mapping grade

School Districts

Layer Status - COMPLETE

Custodian

- GIS Coordinator

Maintenance

- As needed

Standards

- Mapping grade

Election Boundaries

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

Layer Status – MAINTENANCE PHASE

- Twice a year annexation/ward changes are incorporated into the dataset

Custodian

- Chippewa County Clerk
- GIS Coordinator

Maintenance

- Bi-yearly

Standards

- Legislative Technology Bureau Services Data Requirements

Emergency Service Boundary – Law/Fire/EMS

Layer Status - MAINTENANCE

- Law Enforcement Agency Service Zones
- Fire Department Service Zones
- EMS Medical (Ambulance/EMS) Agency Service Zones

Custodian

- Emergency Management Department/911 GIS Coordinator

Maintenance

- Annual and as needed.

Standards

- Wisconsin GIS NG911 Data Standard

Public Safety Answering Points (PSAP) Boundary

Layer Status – Maintenance Phase

Custodian

- Emergency Management Department/911 GIS Coordinator

Maintenance

- Annual and as needed.

Standards

- Wisconsin GIS NG911 Data Standard

Provisioning Boundary

Layer Status – Maintenance Phase

Custodian

- Emergency Management Department/911 GIS Coordinator

Maintenance

- Annual and as needed.

Standards

- Wisconsin GIS NG911 Data Standard

Public Safety & Additional NG9-1-1 GIS Layers

(See Appendix A)

Layer Status – MAINTENANCE PHASE

- County Boundary Chippewa (NG911 jurisdiction & purposes)
- PSAP Boundary Wireless911 Chippewa (NG911 jurisdiction & purposes)
- Tornado Sirens (Countywide siren locations, maintenance status, estimated coverage buffer zones for public warning, notifications and safety)
- ATV Routes (Countywide ATV public road routes for law enforcement purposes)

Custodian

- Chippewa County Emergency Management Department \ 911 GIS Coordinator

Maintenance

- Annual and as needed.

Standards

- Wisconsin GIS NG9-1-1 Data Standard

Other Public Safety, Critical Infrastructure and Key Resources (CIKR) & Additional 9-1-1 Related GIS Layers

List of GIS data layers currently under construction

- Hospitals Clinics (CIKR & Public Health)
- Skilled Nursing Facilities (CIKR & Public Health)
- Business Names (aka "Common Places" | note: contains site address | for Motorola FLEX 911 Mapping & CAD)
- Points of Interest (aka "POIs" | note: no associated site address | for Motorola FLEX 911 Mapping & CAD)
- Cemeteries (Contains site address | for Motorola FLEX 911 Mapping & CAD)

Other Administrative Districts

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

(See Appendix A)

Other Layers

Hydrography Maintained by County or Value-Added

Polygon & Polyline Layers (See Appendix A)

Layer Status - COMPLETE

Custodian

- GIS Coordinator

Maintenance

- As needed

Standards

- Mapping grade

Cell Phone Towers

Layer Status

- Tower & antenna polygons for NG911 purposes. Significant data update underway for Motorola FLEX 911 Mapping & CAD.

Custodian

- Emergency Management Director
- 911 GIS Coordinator

Maintenance

- Yearly

Standards

- Wisconsin GIS NG911 Data Standard

Bridges and Culverts

Layer Status

- Bridges and culverts on County Highways are in CAD format

Custodian

- Chippewa County Highway Department

Maintenance

- Yearly

Standards

- Mapping grade

Other / Miscellaneous

e.g., Pipelines, Railroads, Non-Metallic Mining, Sinkholes, Manure Storage Facilities, etc.

(See Appendix A)

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.

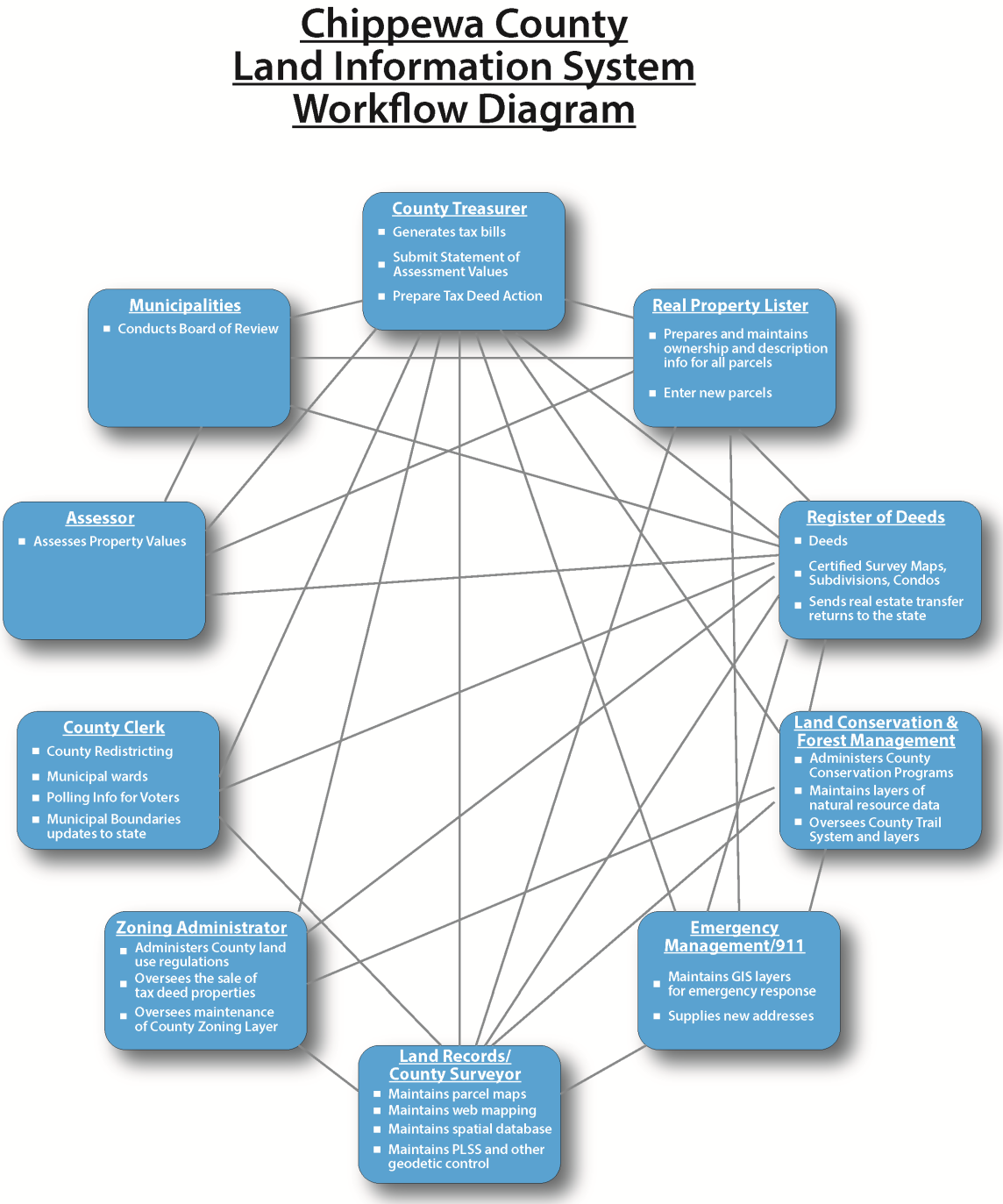
One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

- 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.

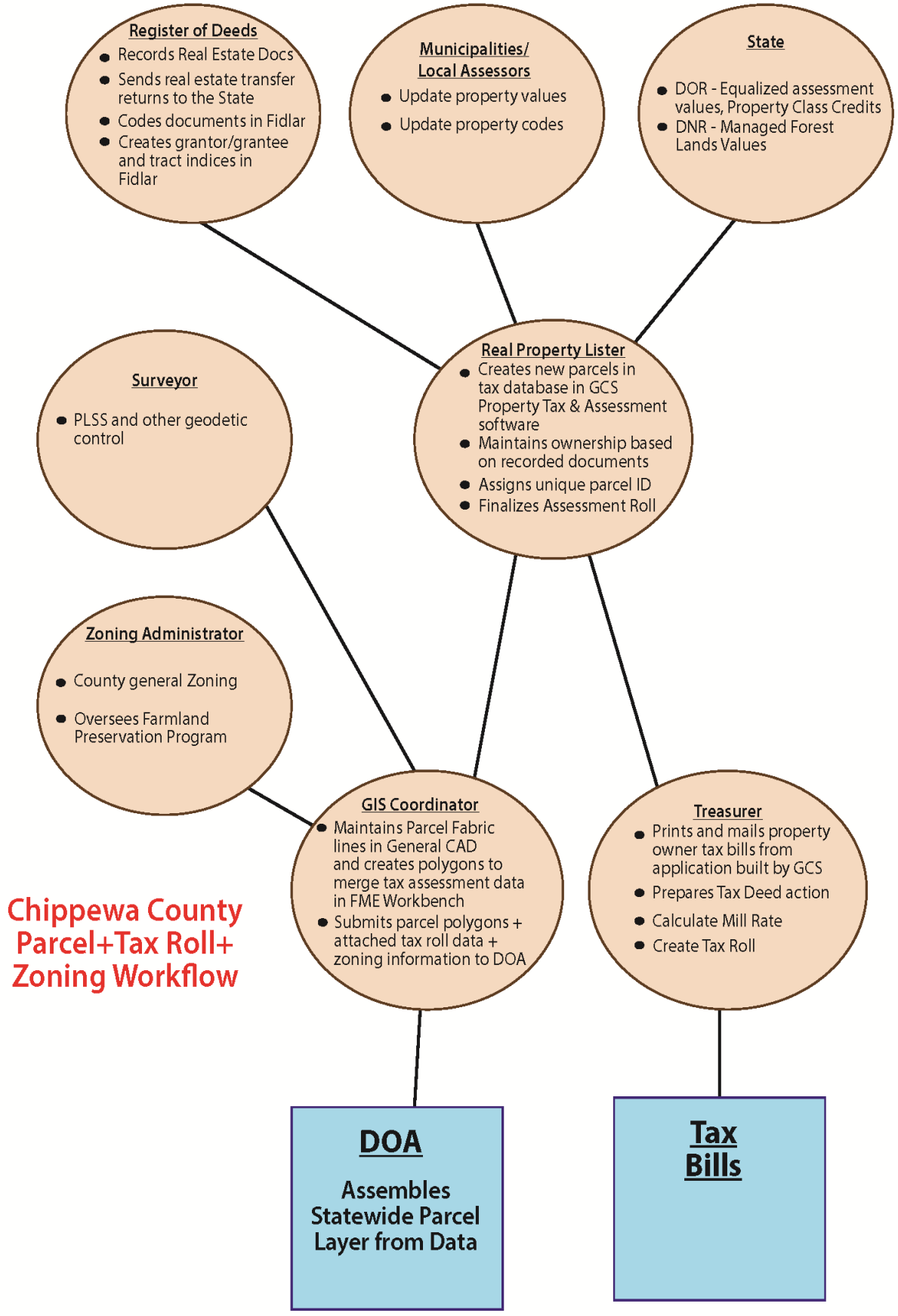
This chapter describes the design of the county land information system, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

Current Land Information System

Diagram of County 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

- The Chippewa County IT Department maintains the servers which store the data locally. Data is stored in flat files on windows servers and our Land Records database is stored on a PostgreSQL server.

Software

- The software programs used to create and maintain land records include, but are not limited to: QGIS, ArcMap, ArcCatalog, FME Workbench, BlueMarble Global Mapper, Carlson Survey, General CAD & Laredo.
- County does not use ArcGISPro and does not have future plans to do so.

Website Development/Hosting

- The web mapping site is hosted by Houston Engineering Inc. (HEI) on An AWS cloud server. The data is stored in a replicated PostgreSQL database on the cloud server and is served up to the GeoMoose web mapping site using MapServer. Notepad++ and Dreamweaver are used to update the supporting files. WinSCP is used to move the updated files to the cloud server.
- Chippewa County also has some web applications built using ArcGIS Online.

Metadata and Data Dictionary Practices

Metadata Creation

- **Metadata creation and maintenance process:** Metadata is created and updated by the department which is listed as the layers custodian on a periodic or upon request basis.

Metadata Software

- **Metadata software:** Chippewa County utilizes the U.S.G.S. Metadata wizard tool which was developed for ArcCatalog.
  - The software generates metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata.
- **Metadata fields manually populated:** Data Set Title, Data Set Author, Time Period Information, Status, Contact Info, Distribution Info & Accuracy attributes.

Metadata Policy

- **Metadata Policy:** No minimum standard, the tool dictates what is entered with all the required fields filled out.

Municipal Data Integration Process

- We work together with the various municipalities around the County, but don't incorporate the local municipal data into the County data. We believe they should continue to be the caretakers of their data so we request a new copy from them if we need it.

Public Access and Website Information

Public Access and Website Information (URLs)

Public Access and Website Information			
GIS Webmapping Application(s) Link - URL	GIS Download Link - URL	Real Property Lister Link - URL	Register of Deeds Link - URL
https://mapping.co.chippewa.wi.us/	https://chippewacounty.sharefile.com/d-sa65e9ce69c24ecf9	https://cc-tax.co.chippewa.wi.us/GCSWebPortal/Search.aspx	www.landrecords.net

Data Availability to Public

Data Sharing Policy

- Much of our data can be viewed on the internet through our web mapping site and other land information web sites. Departments also have set schedules for fees for data sets. The Land Records schedule was approved by County Board Resolution.

Open Records Compliance

- Chippewa County is working toward providing internet access to our Land Records. Most data layers are viewable on our web mapping site, and more layers are being added each year. If a layer is not available on the web mapping site, it can be viewed on desktop software in the respective offices. Data layers can be requested with those on the price schedules having a reproduction cost, with other layers tending to be free.

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions

- Chippewa County does not currently have a data sharing policy. If data is acquired from Chippewa County by the public, they are not restricted in what they can do with it.

Government-to-Government Data Sharing

- Chippewa County requests that the Gov't agency acquiring the data not share it to another party, but that any party inquiring to obtain the data from them contact Chippewa County for the most recent data. The notable exception is the UW Madison Robinson Library GIS download site, which was granted permission to share the Chippewa County data they have.

Training and Education

- Chippewa County will provide training to anyone new to using the software & the GIS Coordinator answers questions whenever more training is needed. The GIS Coordinator also holds GIS User Group meetings at least twice a year to show and discuss what is new with Land Records. This one-on-one training is also available to any local municipality as requested.

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.

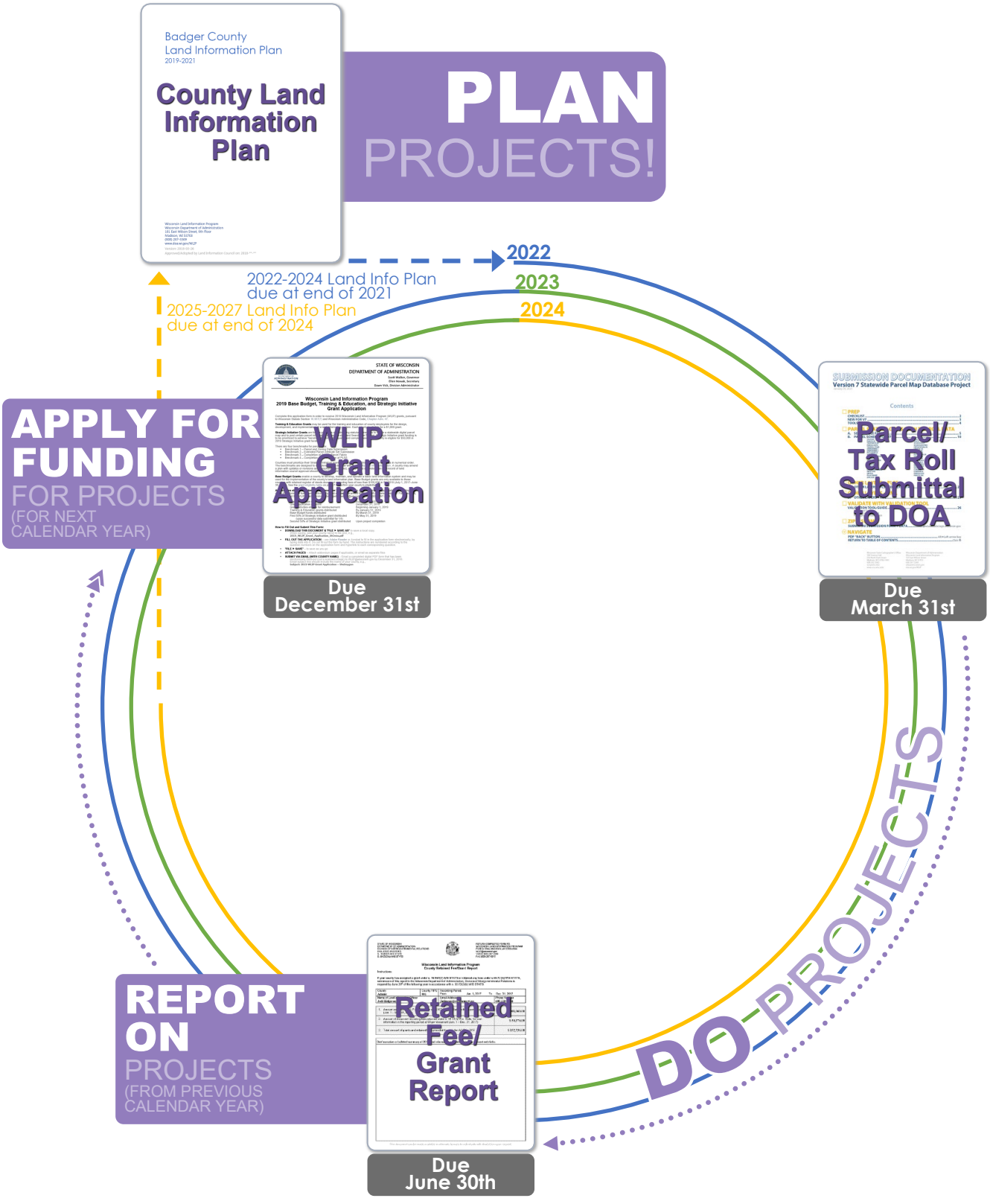


Figure 1. The WLIP Land Information Plan/Grant Project Cycle – For the Years 2021-2024

Project Plan for PLSS Remonumentation

Project Description/Goal

Planned Approach

- The goal is to monument and obtain survey grade coordinates on all PLSS System Corners with a higher priority placed on the county boundary. There are approximately 12 corners within the County Forest that may only need sub-meter coordinates.
- **Land Info Spending Category:** PLSS (also affects Parcel Mapping, and Other Layers)

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:** 137
- **Number to have new coordinates established:** 464
- **Accuracy class for these new coordinates:** Survey-grade
- **Way in which these points will be integrated into the parcel fabric:** If there are major differences between the existing parcel mapping and an actual corner location the mapping will be updated as soon as possible. Otherwise, the mapping will be updated once survey-grade coordinates have been obtained on an entire section.

Missing Corner Notes

- **Documentation for any missing corner data:** The only corners that may not have Survey-grade coordinates will be approximately 12 corners within the County Forest.

County Boundary Collaboration

- All of the surrounding counties share their corner data with each other. When corners are completed along the county boundary, Chippewa County will notify the adjacent county so they can download the new information. The adjacent counties follow the same notification process for Chippewa County.

Business Drivers

- The Project Plan for PLSS is a requirement for those counties who utilize Strategic Initiative Grant funds for work related to PLSS completion and integration.
- The public benefits from having good section corner remonumentation. Accurate parcel mapping allows a property owner to discover inconsistencies between the deed to their property verses the occupation of property. In addition, the cost to survey parcels is reduced because the private property owner is not charged for the remonumentation costs.

Objectives/Measure of Success

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by the end of 2024. The ability to meet this goal is based on the continued use of the Strategic Initiative Grant funds and an additional $20,000 per year in the pursuit of completing this benchmark. If funds are utilized for other projects it will take the County over 4 years to complete.

Project Timeframes

Timeline – PLSS (Benchmark 4)

Milestone	Corners per year	Date
Project is continuous	–	January 1, 2022
Contractors	50 corners/year	2022 through 2024
County Surveyor	125 corners/year	2022 through 2024
Project complete	–	December 31, 2024

Responsible Parties

- County Surveyor and private surveyors by contract/request.

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for Orthophoto and Oblique Imagery

Project Description/Goal

- Aerial imaging to update the Count's aerial photos, including oblique images..
- **Land Info Spending Category:** Digital Parcel Mapping, LiDAR, Orthoimagery

Business Drivers

- Business' and residents utilize the Ortho's as for preliminary project planning
- Orthophotos and Oblique Imagery are highly requested by the public
- County Departments such as Land Conservation and Forest Management, Planning and Zoning, Facilities and Parks, Tax Lister, Emergency Management, County Sheriff, Highway Department, Public Health and Human Services, benefit from updated aerial images;.

Objectives/Measure of Success

- New 3-6 inch pixel orthophoto county-wide every three years.
- New LiDAR data every 8-10 years. *(Note: Current acquisition is from 2020)*.

Project Timeframes

Timeline – Orthophoto and Oblique Imagery		
Milestone	**Duration**	**Date**
Project Start	–	April 1, 2023
Project Complete	–	September 30, 2024

Responsible Parties

- Department of Planning & Zoning - Land Records Division
- Contractor

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for replacement of Real Estate Tax Listing & Land Use Permitting Programs/Software

Project Description/Goal

- Replace existing Real Estate Tax Listing and Land Use Permitting Programs/Software.
- **Land Info Spending Category:** Software and Hardware

Business Drivers

- Existing programs will become antiquated as the vendor has indicated that the ability to covert the programs to cloud based is not financially stable.
- The ability of residents to submit payments and forms electronically.
- The ability to link parcel tax information, web mapping and land use permitting via one program.

Objectives/Measure of Success

- To gain efficiencies with tax records and land use permits for residents.

Project Timeframes

Timeline – Historical Tax Rolls Scanning		
Milestone	**Duration**	**Date**
Project Start	–	January 1, 2023

Project Complete	–	June 30, 2023

Responsible Parties

- Chippewa County Treasurer, Director of Planning & Zoning, IT Director

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for Website Development and Hosting

Project Description/Goal

- To maintain and improve functionality of Chippewa County's Web Mapping Site.
- **Land Info Spending Category:** Website Development/Hosting Services

Business Drivers

- The public can access information and web mapping tools that make it easy to gain the information they need about property in Chippewa County

Objectives/Measure of Success

- Each year we improve the functionality of our web mapping site by providing tools that have been requested by the users

Project Timeframes

- Each year hours of development time are utilized for developing tools and/or updating our web mapping system. The timeframe fluctuates from year to year.

Responsible Parties

- GIS Coordinator and staff of Houston Engineering Inc

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan of Indexing of Documents by Geographical Location

Project Description/Goal

- To expand the use of document imaging and GIS to "geocode" documents (such as zoning permits, conditional use permits, etc) to a geographical location and make the documents available to the public via Chippewa County's Web Mapping Site and the Real Estate Tax Listing program.
- **Land Info Spending Category:** PLSS (also affects Parcel Mapping, and Other Layers)

Business Drivers

- County documents lack detailed location information, making the documents less useful
- County land information system contains some ambiguous addresses
- Increase efficiency of the Department of Planning & Zoning with geocoded land use documents
- Call-Before-You-Dig hotline lacks detailed location information
- Need to improve routing and delivery of Social Services to Chippewa County residents
- County surveyor needs to access tie sheets in the field

Objectives/Measure of Success

- Permits 100% geocoded
- Geographically indexed apps available on the county website

Project Timeframes

Timeline – Indexing of Documents by Geographical Location		
Milestone	**Duration**	**Date**

Project start	–	July 1, 2023
Project complete	–	Dec 31, 2023

Responsible Parties

- GIS technician (75%), Contractor to input data for index (25% for 3 months)

Estimated Budget Information

- See table at the end of this chapter.

Project Plan to produce a Hydrographic Layer with Navigable Streams

Project Description/Goal

- Produce a single hydrographic layer that conforms to FEMA and DNR standards for planning purposes that can be utilized by all agencies in Wisconsin.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- To have one hydrographic layer that replaces old outdated paper maps or digital layers and reflects new and more accurate data sets. This layer would be available to county departments, state and federal agencies as well as the public.

Project Timeframes

Timeline – Hydrographic Layer with Navigable Streams

Milestone	Duration	Date
Project Start	–	November 1, 2022
Townships 28 & 29 North		Nov 1, 2022 – Feb 28, 2023
Townships 30 & 31 North		Nov 1, 2023 – Feb 28, 2024
Township 32 North		Nov 1, 2024
Project complete	–	Dec 31, 2024

Responsible Parties

- Director of Planning & Zoning, GIS Coordinator, County Surveyor, LTE or Intern

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan to produce a Building Footprint Layer

Project Description/Goal

- Produce a Building Footprint Layer from the 2012 and 2020 LiDAR Acquisition.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- To have a building footprint layer that will add value to the our existing GIS Data Sets. This layer would be available to county departments, state and federal agencies as well as the public.

Project Timeframes

Timeline – Building Footprint Layer

Milestone	Duration	Date
Project Start	–	November 1, 2022

Project complete	–	February 28, 2023

Responsible Parties

- Contractor

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for Mobile GPS/GIS Technology

Project Description/Goal

- Enable county departments to enter land use data and follow-up on land use permits on mobile devices while performing field activities
- **Land Info Spending Category:** Website Development/Hosting Services; Other

Business Drivers

- Efficiencies will be gained for staff in Planning and Zoning along with more detailed information in a searchable format. The public will have access to some permit information on the website.
- Transition from paper to electronic data sets.

Objectives/Measure of Success

- The ability to review information or add to existing information in the field will allow county departments to keep information up to date.

Project Timeframes

- November 2022 through February 2024

Responsible Parties

- Director of Planning & Zoning, GIS Coordinator

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for Document Indexing

Project Description/Goal

- Conversion of scanned images into tract index. Index and quality control of all documents to 1800's
- **Land Info Spending Category:** Other: Conversion of Paper Records to Digital

Business Drivers

- For the most part, all real estate land records related documents in the Register of Deed's Office are scanned from 1800's to present for web access.

Objectives/Measure of Success

- Conversion quality control, indexing and tract information yet to be completed

Project Time

Timeline – Document Indexing		
Milestone	**Duration**	**Date**
Project Start	–	November, 2023
Project Complete	–	April, 2024

Responsible Parties

- Register of Deeds

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for Historical Tax Rolls Scanning

Project Description/Goal

- Conversion of paper documents to scanned images.
- **Land Info Spending Category:** Other: Conversion of Paper Records to Digital

Business Drivers

- Scanning of the tax rolls will provide a digital copy that will be available for individuals to review online.
- An electronic format will remove old hard copies of this information from the County Treasurer's Office.
- Copies of the electronic scans will preserve the tax rolls in case of fire or other disasters where paper copies have the potential of being destroyed.

Objectives/Measure of Success

- To have all Chippewa County real estate land records digitized and accessible to the public

Project Timeframes

Timeline – Historical Tax Rolls Scanning

Milestone	Duration	Date
Project Start	–	April, 2024
Scanning & Indexing	ongoing	
Project Complete	–	December, 2024

Responsible Parties

- Chippewa County Treasurer

Estimated Budget Information

- See table at the end of this chapter for project budget information.

5 ESTIMATED BUDGET INFORMATION

Estimated Budget Information				
Project Title	**Item**	**Unit Cost/Cost**	**Land Info Plan Citations**	**Project Total**
1) PLSS Remonumentation	County Surveyor	25% of $98,366.87 = $24,592	Page 23-24	$ 73,775
	Contractor	525 Corners @ $400/each	Page 23-24	$ 210,000
2) Orthophoto & Oblique Imagery	Contractor	$ 150,000	Page 24	$ 150,000
3) Real Estate Tax Listing & Land Use Permitting Programs/Software	Contractor	$ 40,000	Page 24-25	$ 40,000
4) Website Development and Hosting	GIS Coordinator, Contractor	$ 10,000/year	Page 25	$ 30,000
5) Indexing of Documents by Geographical Location	GIS Coordinator, Contractor	$ 20,000	Page 25-26	$ 20,000
6) Hydrographic Layer with Navigable Streams	GIS Coordinator, County Surveyor, LTE or Intern	$ 40,000	Page 26	$ 40,000
7) Building Footprint Layer	GIS Coordinator, Contractor	$ 30,000	Page 26-27	$ 30,000
8) Mobile GPS/GIS Technology	GIS Coordinator	$ 10,000	Page 27	$ 10,000
9) Document Indexing	Register of Deeds, LTE or Intern	$ 20,000/year	Page 27-28	$ 60,000
10) Historical Tax Rolls Scanning	County Treasurer, LTE or Intern	$ 10,000	Page 28	$ 10,000
11) Land Records		$85,000/year		$ 255,000
			GRAND TOTAL	**$ 928,775**

Note. These estimates are provided for planning purposes only. Projects are only funded if adequate funding can be obtained.

6 APPENDIX A - DATASETS

Appendix A

Dataset Title	Update Schedule	Custodial Department	Point of Contact	Standard	Status
Address Points	Monthly	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
Emergency Service Zones	As Needed	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
EMS	As Needed	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
Fire Departments	As Needed	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
Police Stations	As Needed	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
Zip Code Boundaries	Yearly	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
POI Land	As Needed	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
POI Water	As Needed	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
Mile Markers	Yearly	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
Mile Markers – Old Abe Trail	Yearly	Emergency Government	911 GIS Coordinator	NG 9-1-1 NENA	Maintenance Phase
County Highway Department Layers					
County Hwy Sign Inventory	Monthly	Highway	Project Manager	Mapping Grade	Percentage 60-80%
WISLR road data	Yearly	Highway	Project Manager	Mapping Grade	Maintenance Phase
Highway Brushing Schedule	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
CIP Bridges	Yearly	Highway	Project Manager	Mapping Grade	Maintenance Phase
CIP Roads	Yearly	Highway	Project Manager	Mapping Grade	Maintenance Phase
County Speed Zones	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
Past Highway Projects	Yearly	Highway	Project Manager	Mapping Grade	Maintenance Phase
Posted Bridges	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
Road Agreements	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
Traffic Counts	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
County Highway Plow Routes	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
State Highway Plow Routes	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
Adopt a Highway	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
Class B Roads	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
County Road Bans	As Needed	Highway	Project Manager	Mapping Grade	Maintenance Phase
County Forest & Public Trails Managed by LCFM					
ATV Trail & Routes in County Forest	Yearly	LCFM	Forest & Trails	Mapping Grade	
Hickory Ridge Ski Trails	Yearly	LCFM	Forest & Trails	Mapping Grade	
Hickory Ridge Bike Trails	Yearly	LCFM	Forest & Trails	Mapping Grade	
River Road Ski Trail	Yearly	LCFM	Forest & Trails	Mapping Grade	

Hay Meadow Horse Trail	Yearly	LCFM	Forest & Trails	Mapping Grade	
Ice Age Trail	Yearly	LCFM	Forest & Trails	Mapping Grade	
Old Abe Trail	Yearly	LCFM	Forest & Trails	Mapping Grade	
Riverview Conservancy Boundary	Yearly	LCFM	Forest & Trails		
River View Conservancy Trails	Yearly	LCFM	Forest & Trails		
County Forest & Public Lands					
County Forest Boundaries	Yearly	LCFM	Forest & Trails	Mapping Grade	
County Forest Special Units	Yearly	LCFM	Forest & Trails	Mapping Grade	
County Forest Compartments	Yearly	LCFM	Forest & Trails	Mapping Grade	
Type B Tax Deed Parcels	Yearly	LCFM	Forest & Trails	Mapping Grade	
Surface Water Resource Data					
Streams (USGS)	5 Years	LCFM			
Stream Navigability					
Lakes (USGS)	5 Years	LCFM			
Wetlands (polygon)	5 years	LCFM/Planning & Zoning			
Wetlands Point (crows feet)	5 years	LCFM/WDNR/PZ			
Presumptive DNR Wetlands		LCFM/WDNR			
NRCS Wetlands	5 years	LCFM/NRCS			
Watersheds	5 years	LCFM			
Physical Geography					
Glacial Geology	5 years	LCFM/WGNHS			
Bedrock Geology	5 years	LCFM	Engineering Staff		
Drainageways	5 years	LCFM/USDA			
Water Table	5 years	LCFM/WGNHS	Engineering Staff		
Soils	5 years	LCFM/NRCS	Engineering Staff		
Hydric Soils	5 years	LCFM/NRCS			
Contours (USGS)	Annual	LCFM			
NMM					
Total Permit	Yearly	LCFM	Engineering Staff		
Annual Active Boundaries (multiple years)	Yearly	LCFM	Engineering Staff		
Reclaimed	Yearly	LCFM	Engineering Staff		
Defunct	Yearly	LCFM	Engineering Staff		

Permit Tracking Database	Yearly	LCFM	Engineering Staff		
Fee Tracking Database	Yearly	LCFM	Engineering Staff		
Waste Tracking Database (multiple years)	Yearly	LCFM	Engineering Staff		
Chapter 30 Permitted	Yearly	LCFM	Engineering Staff		
Reclamation Plan Maps (many)	Yearly	LCFM	Engineering Staff		
Unpermitted	Yearly	LCFM	Engineering Staff		
Animal Waste					
Permitted Manure Storage	Yearly	LCFM	Engineering Staff		
Unpermitted Manure Storage (pre 1986)	Yearly	LCFM	Engineering Staff		
Stormwater					
Subdivision & Other SW Ponds	Yearly	LCFM	Engineering Staff		
Stormwater Facilities - MS4	Yearly	LCFM	Engineering Staff		
Outfalls - MS4	Yearly	LCFM	Engineering Staff		
Drainage Network - MS4	Yearly	LCFM	Engineering Staff		
Runoff Ponding Areas	Yearly	LCFM	Engineering Staff		
Illicit Discharge	2 Years	LCFM	Engineering Staff		
MS4 Boundary	Annual	LCFM			
MS4 Boundary - Clipped	Annual	LCFM			
Ditch Conditions	Annual	LCFM			
Installed BMP's - MS4	Annual	LCFM			
CLU Layer	5 years	LCFM/FSA			
USGS Quads Boundaries		LCFM/USGS			
Wellhead Protection Zone	Annual	LCFM			
Images					
DNR - 1992-1998-1999	Annual	LCFM			
FSA - 2004	Annual	LCFM			
FSA - 2005	Annual	LCFM			
FSA - 2006	Annual	LCFM			
FSA - 2008	Annual	LCFM			

WROC - 2010	Annual	LCFM			
FSA - 2010	Annual	LCFM			
DNR - 2012	Annual	LCFM			
DNR - 2012 Color Infrared	Annual	LCFM			
LANDSAT	Annual	LCFM			
USDA Slides (1981-2002)- Not Rectified	Annual	LCFM			
Some digitized aerial photos from 1938, 1951, &1981 (some rectified - mostly not)	Annual	LCFM			
AEA					
Bloomer AEA	Never?	LCFM	L&W Div		
Cadott AEA	Never?	LCFM	L&W Div		
Cooks Valley/Dunn County	Never?	LCFM	L&W Div		
Contracted Parcels	Annually	LCFM	L&W Div		
Manure Spreading Restrictions					
Fall N Restrictions	5 Years	LCFM	L&W Div		
No Winter Spreading >12% slopes	5 Years	LCFM	L&W Div		
Winter Spreading Restrictions on >9% slopes	5 Years	LCFM	L&W Div		
WQMA restrictions streams	Annually	LCFM	L&W Div		
WQMA restrictions lakes	Annually	LCFM	L&W Div		
Conservation Easements					
County Held Easements	Annually	LCFM	L&W Div		
NR-151					
WQMA streams	Annually	LCFM	L&W Div		
WQMA lakes	Annually	LCFM	L&W Div		
NR151 Standards Location	Quarterly*	LCFM	L&W Div		
Well Information					
Chippewa County Well Permits	Monthly	LCFM	L&W Div		
Well Geologic Info	Quarterly	LCFM	L&W Div		
High Capacity Wells	Yearly	LCFM/WDNR	Engineering Staff		
High Capacity Wells	Yearly	LCFM/WDNR	Engineering Staff		

Groundwater Quality Information					
Nitrate Sampling Program Results	Quarterly*	LCFM	L&W Div		
Groundwater Quality	Quarterly*	LCFM	L&W Div		
State Wide Layers					
Land Records Division					
County Boundary	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Parcel Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Property Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Forty Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Easement Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Meander Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
New Parcel Split Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Dimensions	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Plat Labels	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Miscellaneous Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Road Centerlines	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Railroads	As Needed	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Municipal Boundaries	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Township Boundaries	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
County 2012 Contour Layer	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
Supervisory Districts	10 Years	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Ward Boundaries	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Section Boundaries	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Section Corners	Monthly	Planning & Zoning	County Surveyor		Maintenance Phase
GPS Monuments	5 Years	Planning & Zoning	GIS Coordinator	Survey Grade	Layer Complete
County Surveyor Work in Progress	Monthly	Planning & Zoning	County Surveyor	Mapping Grade	Maintenance Phase
Hydrography Polygon Layer (Land Records)	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Hydrography Line Layer (Land Records)	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Park Boundaries	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Bike Trails	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Hickory Ridge Trails	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Irvine Park	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase

ATV Routes (Town Roads & County Hwys)	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Percentage 50-75%
Snowmobile (Data from CVSO)	Yearly	Planning & Zoning/CVSO	GIS Coordinator	Mapping Grade	Maintenance Phase
2012 LAS Point Clouds		Planning & Zoning	GIS Coordinator		Layer Complete
Water Access	2 Years	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Existing Cropland				Mapping Grade	
School Districts	As Needed	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
Schools	As Needed	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Municipal Halls	5 Years	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Cemeteries	5 Years	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Churches	5 Years	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Fire Hydrants (Not kept up)		Planning & Zoning	GIS Coordinator	Mapping Grade	
USGS Quads (maps)					Layer Complete
Digital Elevation Model		Planning & Zoning	GIS Coordinator		Layer Complete
Digital Terrain Model		Planning & Zoning	GIS Coordinator		Layer Complete
Landcover					
2011 Pictometry 6 & 12 Inch Combined Tile Boundaries	N/A	Planning & Zoning		Mapping Grade	Layer Complete
2011 Pictometry 6 inch Tiles Boundaries	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2012 Lidar Tile Boundaries	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2017 Aerial Photo 6in Tile Boundaries	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
Spatial Map of Survey Database	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Spatial CSM Database	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Spatial Plats Database	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Spatial Condos Database	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Spatial Roads Database	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Plat polygon locations	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Condo polygon locations	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Property Sales Transactions	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	
Crash Map Data 2002-2014	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
Existing Land Use	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	
Zoning	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Airport Zoning	5 years	Planning & Zoning/EC County		Mapping Grade	
Landfills	5 Years			Mapping Grade	
Waste Sites	5 Years			Mapping Grade	

Extra Territorial Zones	Yearly	Planning & Zoning/EC County		Mapping Grade	
Scenic Easements	N/A	Planning & Zoning/DOT	GIS Coordinator	Mapping Grade	Layer Complete
Farmland Preservation		Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
Zoning District Labels	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Non-Transient Well Water		Planning & Zoning	Zoning Administrator	Mapping Grade	
Conditional Use Permits	Monthly	Planning & Zoning	Zoning Administrator	Mapping Grade	
Town of Bloomer Zoning	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade	Maintenance Phase
Archives of Parcel Information					
2001 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2002 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2003 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2004 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2005 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2006 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2007 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2008 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2009 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2010 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2011 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2012 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2013 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2014 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2015 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2016 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2017 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2018 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2019 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
2020 Parcels	N/A	Planning & Zoning	GIS Coordinator	Mapping Grade	Layer Complete
County Imagery					
1938 BW Imagery	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
1968 BW Scans	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
1978 BW Scans	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
1992-1999 1 Meter MrSID	N/A	LCFM			Layer Complete
1998 1 Meter B&W MrSID	N/A	Planning & Zoning	GIS Coordinator		Layer Complete

1999 1 Meter MrSID	N/A	LCFM			Layer Complete
2003 6in BW City of Bloomer	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2004 1M USDA Imagery	N/A	LCFM			Layer Complete
2005 1M NAIP Imagery	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2006 1M Imagery	N/A	LCFM			Layer Complete
2007 6in Lake Hallie & Chippewa Falls	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2008 6in City of Chippewa Falls	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2008 1M NAIP Imagery	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2010 18in WROC Imagery	N/A	LCFM			Layer Complete
2010 1M NAIP Imagery	N/A	LCFM			Layer Complete
2011 6 & 12 Inch Combined Imagery - MrSID	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2011 Pictometry Oblique Imagery	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2012 2ft MrSID from WI DNR - Color InfraRed	N/A	LCFM			Layer Complete
2012 2ft MrSID from WI DNR	N/A	LCFM			Layer Complete
2013 1M NAIP Imagery	N/A	LCFM			Layer Complete
2014 6in Ortho Imagery - MrSID and GeoTIFF	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2017 6in Ortho Imagery	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2018 3in Orthos - Select Areas	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2020 6in Ortho Imagery	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
2021 3in Orthos - Select Areas	N/A	Planning & Zoning	GIS Coordinator		Layer Complete
Last Edited By: Dennis Falkenberg					
Date: 12-27-2021					

7 APPENDIX B – LIC APPROVAL

CHIPPEWA COUNTY

LAND INFORMATION COUNCIL

REGULAR MEETING

DECEMBER 16, 2021

CHIPPEWA COUNTY COURTHOUSE, RM 119Q

9:30 AM

1. CALL TO ORDER

2. ROLL CALL

Attendee Name	Organization	Title	Status	Arrived
David Eisenhuth	Chippewa County	District 11 (Chair)	Excused	
Doug Clary	Chippewa County	Department Head	Present	
Melanie McManus	Chippewa County	Department Head	Present	
Patty Schimmel	Chippewa County	Department Head	Present	
Dennis Falkenberg	Chippewa County	Staff	Present	
Russ Bauer	Chippewa County	Department Head	Excused	
Sam Wenz	Chippewa County	Staff	Present	
Jean Krumenauer	Chippewa County	Staff	Excused	

Due to a power outage at the courthouse, some members of the LIC were not able to make the meeting. Chair Eisenhuth, after discussing the power outage with Clary, indicated that he would not be present for the meeting.

Clary acted as the Chair for the Committee for this particular meeting.

3. MEMBERS OF THE PUBLIC WISHING TO BE HEARD

None

4. CONSENT AGENDA

Motion to Approve.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Melanie McManus, Department Head
SECONDER:	Patty Schimmel, Department Head
AYES:	Clary, McManus, Schimmel, Falkenberg, Wenz
EXCUSED:	Eisenhuth, Bauer, Krumenauer

1. Approve the Agenda

2. Approve the Minutes

   Land Information Council - Regular Meeting - Dec 21, 2020 9:00 AM

5. ACTION ITEMS

1. Land Records Modernization Plan 2022-2024

The plan was sent to all the LIC via the County's Agenda and Minutes software prior to the meeting. No questions. Clary indicated that a portion of the plan dealing with the location and status of the Emergency Management Information was to be updated in the next couple of days. Motion to Approve the plan as presented with the understanding that minor changes to the emergency management information would occur

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Patty Schimmel, Department Head
SECONDER:	Sam Wenz, Staff
AYES:	Clary, McManus, Schimmel, Falkenberg, Wenz
EXCUSED:	Eisenhuth, Bauer, Krumenauer

6. AGENDA ITEMS FOR FUTURE CONSIDERATION

None

7. ADJOURN

Motion to Adjourn.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Dennis Falkenberg, Staff
SECONDER:	Sam Wenz, Staff
AYES:	Clary, McManus, Schimmel, Falkenberg, Wenz
EXCUSED:	Eisenhuth, Bauer, Krumenauer