

CHIPPEWA COUNTY Land Information Plan 2019-2021



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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 funded by document recording fees collected by register of deeds at the county-level. In 2018, Chippewa County was awarded \$57,064 in WLIP grants and retained a total of \$93,936 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 for planning purposes only.

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, 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: 2019-2021	
Project #1	100% PLSS remonumentation with survey grade GPS coordinates
Project #2	Updated county-wide LiDAR and Orthophoto in 2020
Project #3	Produce a hydrographic layer that includes navigable streams.
Project #4	Expansion of the use of mobile GPS/GIS technology
Project #5	Continued document indexing and scanning improvements
Project #6	Continued website development and hosting for improved access to land records
Project #7	Scanning old paper tax rolls

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.

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 2019-2021 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 Chippewa County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

County Land Information System History and Context

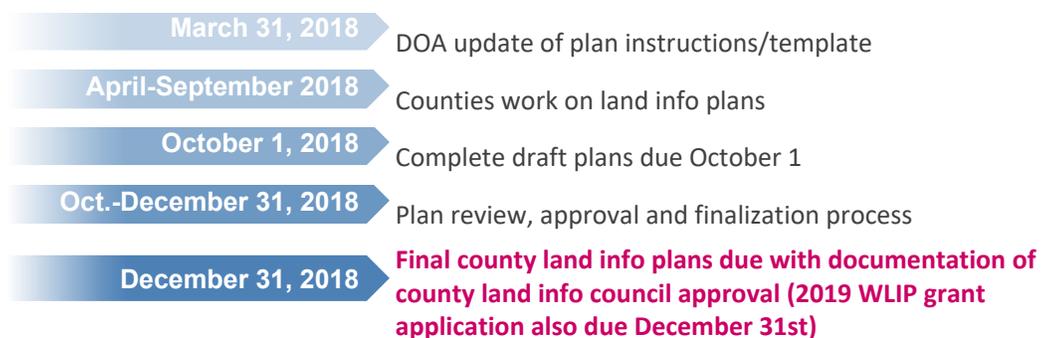
The previous land records modernization plans focused on the following items:

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 2019-2021 plan, completed at the end of 2018, is the second post-Act 20 required update.

County Land Information Plan Timeline



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

Chippewa County Land Information Council and Plan Workgroup				
Name	Title	Affiliation	Email	Phone
+ Doug Clary	Planning and Zoning Director	Planning and Zoning - LIO	dclary@co.chippewa.wi.us	715-726-7941
+ Marge Geissler	Register of Deeds	Register of Deeds Office	mgeissler@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
+ Glen Sikorski	County Board Member	Land Information Council Chairman	gsikorski@co.chippewa.wi.us	715-289-4825
+ Bruce Hayhoe Jr.	Realtor	Woods and Water Realty	brucejr@woodsandwater.com	715-456-2256
+ Dennis Brown	Emergency Management Director	Emergency Government	dbrown@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.chippewa.wi.us	715-726-4590
Christi Haun	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.

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.

FOUNDATIONAL ELEMENTS

- PLSS
- Parcel Mapping
- LiDAR and Other Elevation Data
- Orthoimagery
- Address Points and Street Centerlines
- Land Use
- Zoning
- Administrative Boundaries
- Other 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 and percent of PLSS corners capable of being remonumented in your county that have been remonumented	● 3073 = 91%
Number and percent of remonumented PLSS corners with survey grade coordinates (see below for definition) <ul style="list-style-type: none"> ● 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 	● 2596 = 77%
Number and percent of survey grade PLSS corners integrated into county digital parcel layer	● 2446 = 94%
Number and percent of non-survey grade PLSS corners integrated into county digital parcel layer	● 788 = 100%
Tie sheets available online?	● Yes, http://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	● 19
Approximate number of PLSS corners believed to be lost or obliterated	● 518
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-64 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-68 Dunn-48 Barron-24 Rusk-64 Taylor-38 Clark-24 93% 96% 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

- **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,
http://mapping.co.chippewa.wi.us/?call=search_parcel_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

- **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 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 Fidar. 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 (Fidar) 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

- **Most recent acquisition year:** 2012
- **Accuracy:** 1 foot contours from bare earth DEM
- **Post spacing:** 3.28 ft. grid size
- **Contractor's standard, etc.:** Sanborn Map Company Inc. - Water bodies shown are 2 acres or larger. Vertical accuracies will comply with Table 2.3 of Procedure Memorandum No. 61- Standards for LiDAR and Other High Quality Digital Topography for an Equivalent Contour of 1 foot.
- **Next planned acquisition year:** 2021

Custodian

- GIS Coordinator- Land Records Division

Maintenance

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

Standards

- USGS LiDAR Guidelines and Base specifications v13.
- 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), etc.**

Layer Status

- 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 Guidelines and Base specifications v13.

- 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

- **Most recent acquisition year:** 2017 and 2018
- **Resolution:** 2017 6 inch pixels county-wide; 2018 3 inch pixels in neighborhood areas
- **Contractor's standard:** Contractor was Pictometry
- **Next planned acquisition year:** 2021
- **WROC participation in 2020:** Will not participate

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

(See Appendix A)

Building Footprints

Layer Status

- Chippewa County does not have a building footprint layer

Street Centerlines

(See Appendix A)

Rights of Way

Layer Status

- In progress.

Custodian

- GIS Coordinator

Maintenance

- As needed.

Standards

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

Trails

e.g., Recreational Trails

(See Appendix A)

Land Use

Current Land Use

Layer Status

- 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

- 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

- The County does maintain a GIS representation of County general zoning boundaries, which included 7 zoned towns.

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 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 – Land Records Division

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

- The County maintains zoning information for the Village of Lake Hallie

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.

Administrative Boundaries

Civil Division Boundaries

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

(See Appendix A)

School Districts

Layer Status

- **Progress toward completion/maintenance phase:** Complete
- **Relation to parcels:** Linked by parcel number to assessment roll data.
- **Attributes linked to parcels:** School code and district name.

Custodian

- GIS Coordinator – Land Records Division

Maintenance

- As needed

Standards

- Mapping grade

Election Boundaries

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

Layer Status

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

Custodian

- Chippewa County Clerk
- GIS Coordinator – Land Records Division

Maintenance

- Bi-yearly

Standards

- Legislative Technology Bureau Services data requirements

Public Safety

(See Appendix A)

Other Administrative Districts

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

(See Appendix A)

Other Layers

Hydrography Maintained by County or Value-Added

(See Appendix A)

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

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.

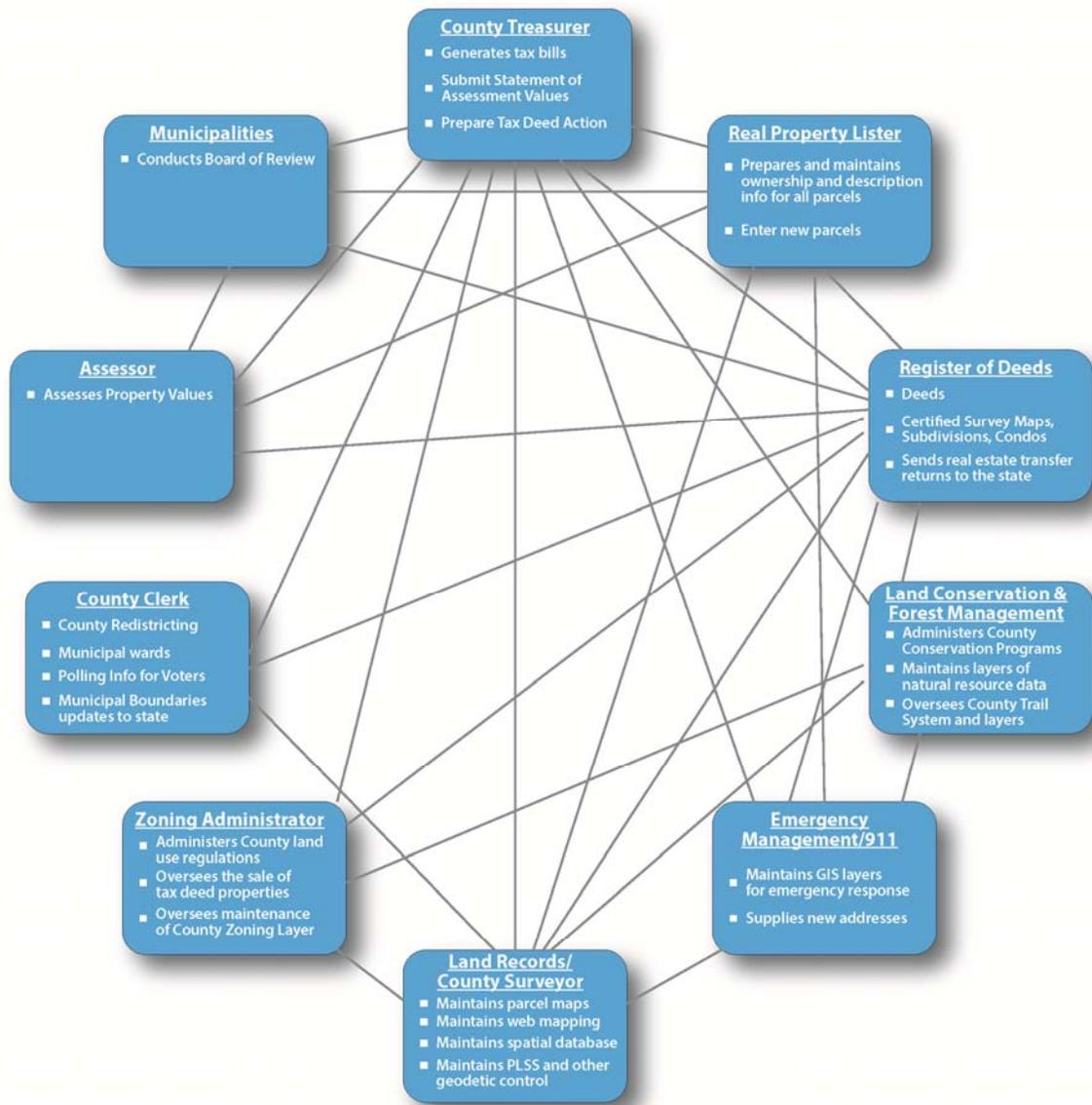
One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

- 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.

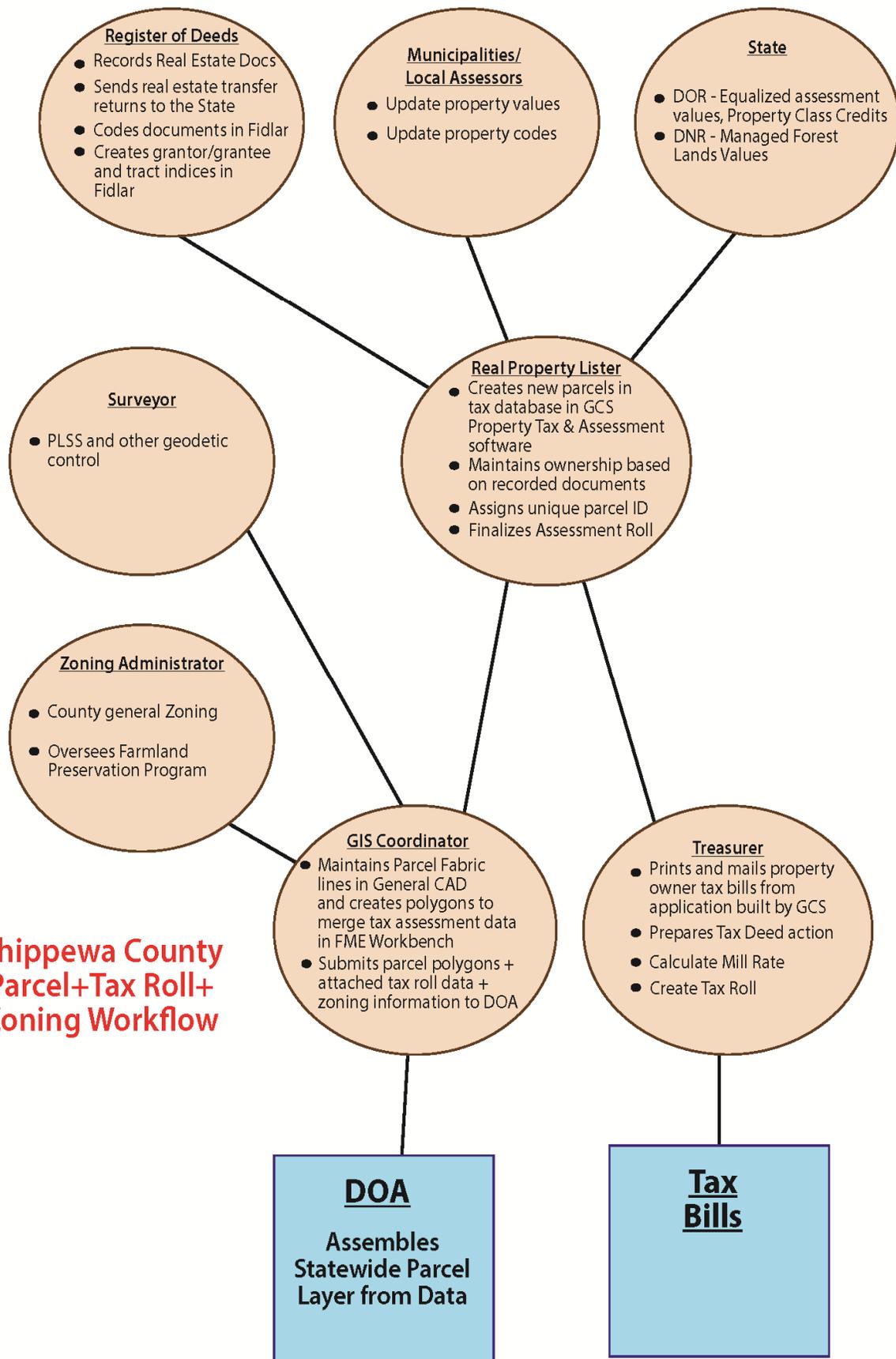
This chapter describes the design of the county land information system, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

Current Land Information System
Diagram of County Land Information System

Chippewa County
Land Information System
Workflow Diagram



County Parcel Data Workflow Diagram



Chippewa County Parcel+Tax Roll+Zoning Workflow

Technology Architecture and Database Design

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

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.

Website Development/Hosting

- The web mapping site is hosted by Houston Engineering Inc. (HEI) on a Rackspace 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 in to the County data. We believe they are 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
http://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.

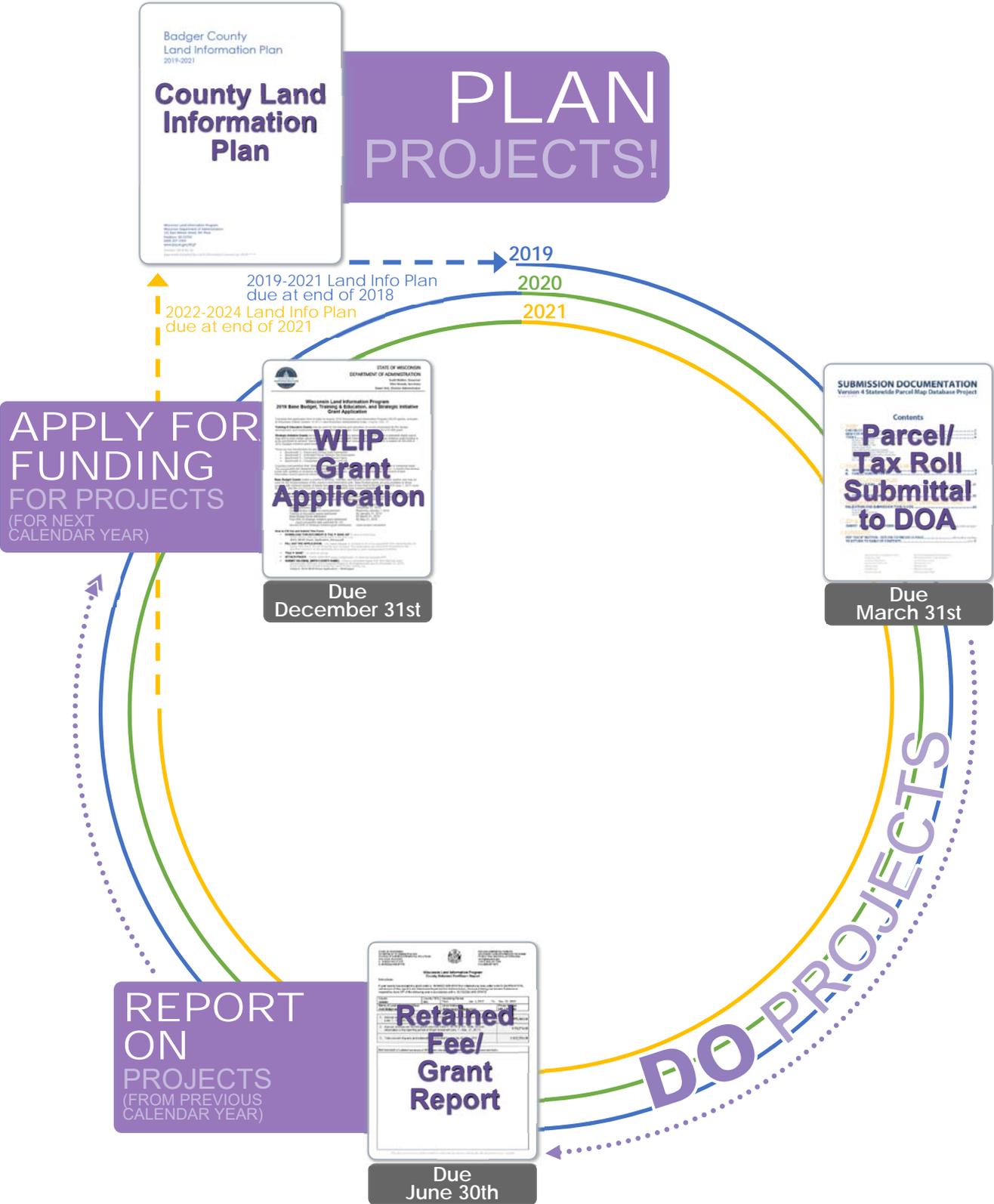


Figure 1. The WLIP Land Information Plan/Grant Project Cycle

Project Plan to Maintain Searchable Format for Benchmarks 1 & 2

Project Description/Goal

- Chippewa County will maintain an up-to-date parcel data set through a cooperation between the GIS Coordinator, the Real Property Lister and the County Surveyor. The County Surveyor will continue to provide survey grade coordinates for Section Corners and those coordinates will then be used to update the parcel lines. The GIS Coordinator will incorporate those new coordinates into our CAD mapping and run a process to attach the assessment roll data to those parcels. After running that process the GIS Coordinator uses an in house tool to make sure all the current parcels identified on the assessment roll are represented in the parcel mapping. To continue to prepare that data for submittal to the state, the GIS Coordinator will use the tools provided by the State to run error reports. After running those error reports, the GIS Coordinator will put together a list of assessment roll updates to have the Real Property Lister update. After those updates are incorporated into the assessment roll, the parcel data set is generated once again and an error report is also generated again. This cycle continues until there are no more fixable errors found. If there are any anomalies in the data set, they are reported to the state.
- **Land Info Spending Category:** Other Parcel Work

Business Drivers

- The Project Plan to Maintain Searchable Format for Benchmarks 1 & 2 is a requirement for those counties who utilize Strategic Initiative funds for parcel/tax roll formatting to prepare the data submission to DOA.

Objectives/Measure of Success

- The objective is to continue to meet the Searchable Format for Benchmarks 1 & 2 (Parcel and Zoning Data Submission, Extended Parcel Attribute Set Submission).

Project Timeframes

Timeline – Maintain Searchable Format for Benchmarks 1 & 2		
Milestone	Duration	Date
Project start	–	January 1, 2019
Generate data set	2 weeks	January 1-15, 2019
Error and missing parcel checks (format data)	6 weeks	January 15 thru-February 28, 2019
Project complete	–	March 1, 2019

Responsible Parties

- GIS Coordinator – Land Records Division

Estimated Budget Information

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

Project Plan for PLSS (Benchmark 4)

Project Description/Goal

Planned Approach

- The goal is to monument and obtain survey grade coordinates on all PLSS System Corners with a priority 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:** 311
- **Number to have new coordinates established:** 769
- **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 I complete corners along the county boundary I notify the adjacent county so they can download the new information. The adjacent counties do the same for me.

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 benefits from having good section corner remonumentation. More accurate parcel maps help them to discover inconsistencies in their deed verses occupation. The cost to get a survey is also reduced if the private individual does not have to pay for remonumentation costs.

Objectives/Measure of Success

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by the end of 2022. This is based on the continued use of the Strategic Grant of \$50,000/year plus an additional \$30,000 per year in the pursuit of completing this benchmark. If the only funds available are the strategic grant funds then it will take over 6 years to complete.

Project Timeframes

Timeline – PLSS (Benchmark 4)		
Milestone	Corners per year	Date
Project continuous	–	January 1, 2019
Contractors	125 corners/year	2019 through 2022
County Surveyor	75 corners/year	2019 through 2022
Project complete	–	December 31, 2022

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 of Indexing of Documents by Geography in GIS

Project Description/Goal

- To expand the use of document imaging and GIS to “geocode” documents to geography (such as zoning permits, conditional use permits, etc) and make them available to the public via the Internet.
- **Land Info Spending Category:** PLSS (also affects Parcel Mapping, and Other Layers)

Business Drivers

- County business data lacks detailed location information, making it 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 Department
- 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 Geography in GIS		
Milestone	Duration	Date
Project #1 start	–	May 1, 2019
Index permits	1 month	May 1–June 30 2019
Index tie sheet and other records	4 months	June 1–Sept 30, 2019
Build apps	3 months	Oct 1–Dec 31, 2019
Project complete	–	Dec 31, 2019

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 update LiDAR and Orthophoto

Project Description/Goal

- Combined aerial imaging and LiDAR project to update aerial photos, oblique images and contours. A new layer will also be produced showing building footprints. The LiDAR will also provide data to expand the hydrographic layer to include navigable streams.
- **Land Info Spending Category:** Digital Parcel Mapping, LiDAR, Orthoimagery

Business Drivers

- Land development firms use this as planning level data
- Orthophotos and contours are highly requested by the public
- Many County Departments benefit from this data; Land Conservation and Forest Management, Planning and Zoning, Facilities and Parks, Tax Lister, Emergency Management, County Sheriff, Highway Department, Public Health and Human Services.

Objectives/Measure of Success

- New 6 inch pixel orthophoto county-wide every three years.
- New LiDAR data every 8-10 years.

Project Timeframes

- Spring of 2020 image and LiDAR capture

Responsible Parties

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

Estimated Budget Information

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

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 and the public.

Project Timeframes

Timeline – Hydrographic Layer with Navigable Streams		
Milestone	Duration	Date
Project Start	–	November 1, 2019
Townships 28 & 29 North		Nov 1, 2019 – Feb 28 2020
Townships 30 & 31 North		Nov 1, 2020 to Feb 28, 2021
Township 32 North		Nov 1, 2021
Project complete	–	Dec 31, 2021

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 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 us to keep information up to date.

Project Timeframes

- November 2019 through February 2020

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

- All real estate land records related documents in the ROD's 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, 2019
Project Complete	–	April, 2021

Responsible Parties

- Register of Deeds

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 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	–	November, 2020
Scanning & Indexing		January – February, 2021
Project Complete	–	April, 2021

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) Maintain Searchable Format for Benchmarks 1 & 2	GIS Coordinator	40 Hours @ \$49.31/hr	Page 23	\$ 1,972
2) PLSS – Benchmark 4	County Surveyor	25% of \$98,366.87 = \$24,592	Page 24	\$ 73,775
	Contractor	525 Corners @ \$400/each	Page 24	\$ 210,000
3) Indexing of Documents by Geography in GIS	GIS Coordinator, Contractor		Page 25	\$ 50,000
4) LiDAR & Orthophoto	Pictometry	\$160,000 (Ortho) \$125,000 (LiDAR)	Page 25-26	\$ 285,000
5) Hydrographic Layer with Navigable Streams	GIS Coordinator, County Surveyor, LTE or Intern	\$40,000	Page 26	\$ 40,000
6) Mobile GPS/GIS Technology	GIS Coordinator	\$10,000	Page 26-27	\$10,000
7) Document Indexing	Register of Deeds, LTE or Intern	\$ 100,000	Page 27	\$ 100,000
8) Website Development and Hosting	GIS Coordinator, Contractor	\$20,000/year	Page 27	\$ 60,000
9) Historical Tax Rolls Scanning	County Treasurer, LTE or Intern	\$10,000	Page 28	\$ 10,000
10) Land Records		\$80,000/year		\$ 240,000
GRAND TOTAL				\$1,080,747

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
Address Points	Monthly	Emergency Government	911 GIS Coordinator	Mapping Grade
Emergency Service Zones		Emergency Government	911 GIS Coordinator	Mapping Grade
EMS		Emergency Government	911 GIS Coordinator	Mapping Grade
Fire Departments		Emergency Government	911 GIS Coordinator	Mapping Grade
Police Stations		Emergency Government	911 GIS Coordinator	Mapping Grade
Zip Code Boundaries		Emergency Government	911 GIS Coordinator	Mapping Grade
POI Land		Emergency Government	911 GIS Coordinator	Mapping Grade
POI Water		Emergency Government	911 GIS Coordinator	Mapping Grade
Mile Markers		Emergency Government	911 GIS Coordinator	Mapping Grade
Mile Markers – Old Abe Trail		Emergency Government	911 GIS Coordinator	Mapping Grade
Crash Map Data 2002-2014		Planning & Zoning	GIS Coordinator	Mapping Grade
County Highway Department Layers				
County Hwy Sign Inventory	???	Highway	Project Manager	Mapping Grade
WISLR road data	Yearly	Highway	Project Manager	Mapping Grade
Highway Brushing Schedule	As Needed	Highway	Project Manager	Mapping Grade
CIP Bridges	Yearly	Highway	Project Manager	Mapping Grade
CIP Roads	Yearly	Highway	Project Manager	Mapping Grade
County Speed Zones	As Needed	Highway	Project Manager	Mapping Grade
Past Highway Projects	Yearly	Highway	Project Manager	Mapping Grade
Posted Bridges	As Needed	Highway	Project Manager	Mapping Grade
Road Agreements	As Needed	Highway	Project Manager	Mapping Grade
Traffic Counts	As Needed	Highway	Project Manager	Mapping Grade
County Highway Plow Routes	As Needed	Highway	Project Manager	Mapping Grade
State Highway Plow Routes	As Needed	Highway	Project Manager	Mapping Grade
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		
NMIM				
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	
Town Boundaries		Planning & Zoning	
Township Boundaries		Planning & Zoning	
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
Parcel Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Property Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Forty Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Easement Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Meander Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
New Parcel Split Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Dimensions	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Plat Labels	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Miscellaneous Lines	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Road Centerlines	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade
Railroads	Never?	Planning & Zoning	GIS Coordinator	Mapping Grade
Municipal Boundaries	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
Township Boundaries	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
County 2012 Contour Layer	N/A	Planning & Zoning	GIS Coordinator	
Supervisory Districts	10 Years	Planning & Zoning	GIS Coordinator	Mapping Grade
Ward Boundaries	5 Years	Planning & Zoning	GIS Coordinator	Mapping Grade
Section Boundaries	Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Section Corners	Monthly	Planning & Zoning	GIS Coordinator	
GPS Monuments	5 Years	Planning & Zoning	GIS Coordinator	Survey Grade
County Surveyor Work in Progress	Monthly	Planning & Zoning	County Surveyor	Mapping Grade
Water Polygon Layer (Land Records)	2 Years	Planning & Zoning		Mapping Grade
Water Line Layer (Land Records)	2 Years	Planning & Zoning		Mapping Grade

Park Boundaries	Yearly	Planning & Zoning		Mapping Grade
Bike Trails	Yearly	Planning & Zoning		Mapping Grade
Irvine Park	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
ATV Routes (Town Roads & County Hwys)	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
Snowmobile (Data from CVSO)	Yearly	Planning & Zoning/CVSO	GIS Coordinator	Mapping Grade
2012 LAS Point Clouds		Planning & Zoning	GIS Coordinator	
Water Access	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
Existing Cropland				Mapping Grade
School Districts	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
Schools	Yearly	Planning & Zoning		Mapping Grade
Municipal Halls	5 Years	Planning & Zoning		Mapping Grade
Cemeteries	5 Years	Planning & Zoning		Mapping Grade
Churches	5 Years	Planning & Zoning		Mapping Grade
Fire Hydrants (Not kept up)		Planning & Zoning		Mapping Grade
USGS Quads (maps)				
Digital Elevation Model		Planning & Zoning		
Digital Terrain Model		Planning & Zoning		
Landcover				
2011 Pictometry 6 & 12 Inch Combined Tile Boundaries	N/A	Planning & Zoning		Mapping Grade
2011 Pictometry 6 inch Tiles Boundaries	N/A	Planning & Zoning		Mapping Grade
2012 Lidar Tile Boundaries	N/A	Planning & Zoning		Mapping Grade
2017 Aerial Photo 6in Tile Boundaries	N/A	Planning & Zoning		Mapping Grade
Spatial Map of Survey Database	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade
Spatial CSM Database	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade
Spatial Plats Database	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
Spatial Condos Database	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
Spatial Roads Database	Bi-Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
Plat polygon locations	Monthly	Planning & Zoning	GIS Coordinator	Mapping Grade
Property Sales Transactions	Bi-Weekly	Planning & Zoning	GIS Coordinator	Mapping Grade
Existing Cropland		Planning & Zoning		Mapping Grade
Existing Land Use	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade
Zoning	Yearly	Planning & Zoning	GIS Coordinator	Mapping Grade

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	Mapping Grade
Farmland Preservation		Planning & Zoning	Mapping Grade
Zoning District Labels	Bi-Yearly	Planning & Zoning	Mapping Grade
Non-Transient Well Water		Planning & Zoning	Mapping Grade
Conditional Use Permits	Monthly	Planning & Zoning	Mapping Grade
Archives of Parcel Information			
2001 Parcels	N/A	Planning & Zoning	Mapping Grade
2002 Parcels	N/A	Planning & Zoning	Mapping Grade
2003 Parcels	N/A	Planning & Zoning	Mapping Grade
2004 Parcels	N/A	Planning & Zoning	Mapping Grade
2005 Parcels	N/A	Planning & Zoning	Mapping Grade
2006 Parcels	N/A	Planning & Zoning	Mapping Grade
2007 Parcels	N/A	Planning & Zoning	Mapping Grade
2008 Parcels	N/A	Planning & Zoning	Mapping Grade
2009 Parcels	N/A	Planning & Zoning	Mapping Grade
2010 Parcels	N/A	Planning & Zoning	Mapping Grade
2011 Parcels	N/A	Planning & Zoning	Mapping Grade
2012 Parcels	N/A	Planning & Zoning	Mapping Grade
2013 Parcels	N/A	Planning & Zoning	Mapping Grade
2014 Parcels	N/A	Planning & Zoning	Mapping Grade
2015 Parcels	N/A	Planning & Zoning	Mapping Grade
2016 Parcels	N/A	Planning & Zoning	Mapping Grade
2017 Parcels	N/A	Planning & Zoning	Mapping Grade
County Imagery			
1992-1999 1 Meter MrSID	N/A	LCFM	
1998 1 Meter B&W MrSID	N/A	Planning & Zoning	GIS Coordinator
1999 1 Meter MrSID	N/A	LCFM	
2003 6in BW City of Bloomer	N/A	Planning & Zoning	GIS Coordinator
2004 1M USDA Imagery	N/A	LCFM	

2005 1M NAIP Imagery	N/A		Planning & Zoning	GIS Coordinator	
2006 1M Imagery	N/A		LCFM		
2007 6in Lake Hallie & Chippewa Falls	N/A		Planning & Zoning	GIS Coordinator	
2008 6in City of Chippewa Falls	N/A		Planning & Zoning	GIS Coordinator	
2008 1M NAIP Imagery	N/A		Planning & Zoning	GIS Coordinator	
2010 18in WROC Imagery	N/A		LCFM		
2010 1M NAIP Imagery	N/A		LCFM		
2011 6 & 12 Inch Combined Imagery - MrSID Tiles	N/A		Planning & Zoning	GIS Coordinator	
2011 Pictometry Oblique Imagery	N/A		Planning & Zoning	GIS Coordinator	
2012 2ft MrSID from WI DNR - Color InfraRed	N/A		LCFM		
2012 2ft MrSID from WI DNR	N/A		LCFM		
2013 1M NAIP Imagery	N/A		LCFM		
2014 6in Ortho Imagery - MrSID and GeoTIFF Tiles	N/A		Planning & Zoning	GIS Coordinator	
2017 6in Ortho Imagery	N/A		Planning & Zoning	GIS Coordinator	
2018 3in Orthos - Select Areas	N/A		Planning & Zoning	GIS Coordinator	
*ArcMap script needs updating					
Last Edited By: Dennis Falkenberg					
Date: 09-24-2018					

7 APPENDIX B – LIC APPROVAL

CHIPPEWA COUNTY
LAND INFORMATION COUNCIL
SPECIAL MEETING
DECEMBER 4, 2018
CHIPPEWA COUNTY COURTHOUSE, RM 001
3:30 PM

I. CALL TO ORDER

Attendee Name	Organization	Title	Status	Arrived
Glen Sikorski	Chippewa County	District 2 (Chair)	Present	
Bruce Hayhoe	Chippewa County	Citizen Rep	Excused	
Marge Geissler	Chippewa County	Department Head	Excused	
Patty Schimmel	Chippewa County	Department Head	Present	
Dennis Falkenberg	Chippewa County	Staff	Present	
Dennis Brown	Chippewa County	Department Head	Present	
Doug Clary	Chippewa County	Department Head	Present	
Sam Wenz	Chippewa County	Staff	Present	
Jean Krumenauer	Chippewa County	Staff	Present	

Diane Bertram of the Register of Deeds Office was present as well.

II. APPROVAL OF MINUTES

1. Land Information Council - Special Meeting - Dec 20, 2017 8:30 AM
Motion to Approve.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Sam Wenz, Staff
SECONDER:	Jean Krumenauer, Staff
AYES:	Sikorski, Schimmel, Falkenberg, Brown, Clary, Wenz, Krumenauer
EXCUSED:	Hayhoe, Geissler

III. BUSINESS ITEMS

1. Discussion and Action on Chippewa County's Land Record Modernization Plan 2019-2021
Clary provided a general overview of proposed project costs. A general discussion occurred. Motion to approve of the plan as presented.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Dennis Brown, Department Head
SECONDER:	Sam Wenz, Staff
AYES:	Sikorski, Schimmel, Falkenberg, Brown, Clary, Wenz, Krumenauer
EXCUSED:	Hayhoe, Geissler

IV. ADJOURN

Motion to Adjourn.