

MILWAUKEE COUNTY LAND INFORMATION COUNCIL

December 2019 Council Meeting

AGENDA

Date: December 4th 2019
Time: 9:00 a.m.
Place: Milwaukee Metropolitan Sewerage District
MMSD, OJ Noer Conference Room
260 W Seeboth St.
Milwaukee, WI. 53204

- I. Roll Call
- II. Minutes from the Council meeting held June 5th, 2019
- III. 2019 Land Information Office Budget Update
- IV. 2020 LIO Budget
- V. 2019 LIO Workplan Project Updates
- VI. 2020 LIO Workplan
- VII. **Reports\Activities**
 - 1. Planimetric Data Update
 - 2. Cadastral Improvements – Phase I & II
 - 3. Census – New Construction Program
 - 4. 2020 WLIP Grant Request
- VIII. **New Business**
- IX. **Date, time, and place of next meeting**
- X. **Adjournment**

MILWAUKEE COUNTY LAND INFORMATION COUNCIL
June 2019 Council Meeting

AGENDA

Date: June 4th, 2019
Time: 9:00 a.m.
Place: Milwaukee Metropolitan Sewerage District
MMSD, OJ Noer Conference Room
260 W Seeboth St.
Milwaukee, WI. 53204

Members Present

Kevin Bruhn	Manager, LIO, Milwaukee County DAS/FMD-LIO
Kathleen Bach	GIS Analyst, Milwaukee County Register of Deeds, on behalf of Israel Ramón
Emily Champagne	GIS Supervisor, Milwaukee Metropolitan Sewage District
Cathleen Hollers	Accountant Supervisor, Treasury Accounting Supervisor of Milwaukee County, DAS on behalf of David Cullen
Rob Merry	Milwaukee County Surveyor, SEWRPC
Gregory High	Director, Architecture and Engineering, Milwaukee County DAS/FMD-A&E
Christine Westrich	Director, Office of Emergency Management, Milwaukee County
Nancy Olson	Chief Information Officer, City of Milwaukee, Information and Technology Management Division

Guest and Staff Present

Katie Ginther	GIS Analyst, Milwaukee County LIO
Yari Rosa	System Integration Manager, City of Milwaukee, Information and Technology Management Division

I. Roll Call

Chairman Bruhn called the meeting of the Land Information Council (LIC) to order. Roll call was taken by circulating the attendance sheet.

II. Minutes from the Council meeting held December 5th, 2018

No modifications from the minutes were requested. Olson moved to approve the minutes. Bach seconded.

III. 2018/2019 Land Information Office Budget Update

Bruhn reported on the breakdown on the 2018 budget. It was noted that recording fees were down 7% for the year. Bruhn highlighted current and projected revenues for 2019. Projected revenue for the year is \$840,000 with recording fees at the Register of Deeds. Currently, there is a \$20,000 decrease from last year. Westrich requested to see a breakdown of the encumbrances carried over from 2018. Bruhn offered to detail out the items.

IV. 2019 LIO Workplan Project Updates

a. Emergency Management – NG911

Westrich gave an update on the NextGen911 project. A sub-committee has been formed and is looking to have an RFP awarded in early 2020 with work on the project also beginning in 2020. There was a request from the Wisconsin Counties Association to have all counties pass a resolution to allocate 7 million dollars to the project. 39 of the 72 counties submitted such resolutions. There is currently a 6.7 million dollar resolution start the project, with 7 million being applied every year thereafter.

The Office of Emergency Communications is applying for a grant from the federal government but is unsure who the grant will be awarded to.

Champagne provide information on a study being performed by the Office of Emergency Communications to assess the current GIS data and identify data gap needs in GIS. The study will be used in the allocation of funds to fill these gaps.

b. Non-map GIS

Bruhn reported that the project has yet to be started.

c. Datum Modernization – Vertical

Merry reported that he is wrapping up the conversion the week of June 4th with the posting of elevations and value changes to come.

Bruhn highlighted the reduction of cost for the datum project created by internal efficiencies. The surplus funds will be used towards imagery collection flights.

d. Planimetric Data Update

Bruhn discussed the upcoming data update. There are currently 4.5 miles of updates needed which is 2% of the county. This number is small enough to complete the changes in-house and the project will start near the end of 2019. Bruhn presented maps on areas of change and types of changes expected. Olson asked if change detection for the project was completed using pictometry change detention. Bruhn answered that changes in property and cadastral records were used to find the initial scope.

e. Cadastral Improvements

Bruhn reported that the cadastral updates are 82-85% complete. There is 15% left to do, including the dense downtown areas that will take more time to complete. The plan is to have Phase 1 complete by the end of the year.

Bruhn discussed moving on to Phase 2 which will include correcting the Phase 1 errors. Westrich questioned what kind of errors are being fixed in Phase 2. Bach responded with a list of common errors.

f. Milwaukee County Zoning Data Compilation

Bruhn discussed the progress on the consolidation of zoning codes for all Milwaukee County municipalities. The zoning categories have been consolidated from 305 codes to 19 categories. Bruhn presented a map showing the zoning categories.

Westrich and Olson questioned why the data would not be submitted to the state. Bruhn explained that the data is not ready for publishing because of unresolved issues with zoning codes not consistently tied to parcels or separate zoning polygons throughout the county. Bruhn explained that the consolidated zoning data will be used internally but cannot account for enough detail to be distributed.

V. Reports/Activities

a. 2018 County Surveyor Report

Merry reported on the perpetuation of PLSS corner installations and updates that are required to support the cadastral data. Merry reported that 18 corners in the county have been installed with 40 waiting for construction to finish. A disadvantaged business enterprise (DBE) contractor was hired to install 9 monuments and the same contractor will be used again this year to install more. Merry explained that finding DBE contractors in Milwaukee is difficult but that they will continue to use them for federal contracts.

Merry also reported that the horizontal datum conversion to NAD83 was completed.

b. 2018 Retained Fees & Grant Report

Bruhn provided a brief overview of the 2018 retained fees and grants. Activities being completed using grant funds included datum migration, cadastral improvements, and LUCA program participation.

c. 2020 LiDAR Capture

Bruhn provided updates on the 2020 LiDAR Capture for Milwaukee County; highlighting a change in technology that will allow for a 30 points per meter resolution. Milwaukee County will be the first county in Wisconsin to use this new technology which includes a scissoring effect to collect vertical surfaces. The state Department of Transportation is interested in participating and offered \$20,000 of additional funds for the project. Bruhn reported that this

new imagery will allow for more accurate information to be used for such projects as utility lines, biomass tracking, and urban planning with structures. Bruhn also mentioned that he would like to schedule a time for the vendor to present information on their product at a user group meeting to generate interest.

Olson question how the 2010 and 2015 LiDAR products have been used. Champagne offered details on MMSD's heavy use of LiDAR products. Bruhn highlighted the Coastal Sea Grant project to study shoreline regression rate as an important project that will utilize the new imagery.

Westrich questioned if LiDAR responded to natural disaster charges. Champagne highlighted the use of LiDAR with flooding in Bayfield County and the response of the company within days to re-fly and assess damage.

d. 2020 Imagery Capture

Bruhn discussed the 2020 imagery capture project. 3-inch resolution ortho and oblique imagery will be captured. A 2020 strategic initiative grant, carryover funds from the vertical datum project, and a contribution from SEWRPC will be used to fund the imagery capture. Of all the WROC counties, only Milwaukee committed at this time to a LiDAR capture. The size and density of the county allows for a reasonable fee.

Bruhn also mentioned that the vendor EagleView will re-fly in the event of a natural disaster. Champagne questioned if flooding is considered a disaster and Bruhn offered to follow up on the verbiage to make sure that flooding is included.

VI. New Business

No new business was discussed.

VII. Date, time, and place of next meeting

Bruhn suggested December 3rd, 2019 at 9am for the next meeting with MMSD hosting at the same location. No one objected.

VIII. Adjournment

2019 LIO YTD

	YTD	YE Projected
REVENUES - 2019 YTD Through 10/31/19		
2019 Record & Filing Fees	\$661,354	\$771,090.00
2018 Encumbrances Carried Over	\$129,743	\$129,743
2019 Grants	\$51,000	\$51,000
2019 Misc Revenue	\$0	\$0
TOTAL	<u>\$842,097</u>	<u>\$951,833</u>
OPERATING EXPENSES - 2019 YTD Through 10/31/19		
2019 Actual Expenditures	\$603,505	\$951,833.00
2019 Encumbrances Rad Gov/SEWRPC	\$68,606	\$68,606
2019 Encumbrance Eagle View (2020)	\$0	\$137,286
2019 ROD GIS Analyst	\$0	\$0
TOTAL	<u>\$672,112</u>	<u>\$1,157,725</u>
2019 Est. Net Income (Loss)	<u>\$169,985</u>	<u>(\$205,892)</u>

Fund Balance:	YTD	YE Projected
2018 Year-End Fund Balance*	\$1,605,418	\$1,605,418
2019 Operating Revenues (Shown Above)	+ \$842,097	\$951,833
2019 Exp + Enc for \$8 Fee Projects	- \$672,112	\$1,157,725
2019 Est Fund Balance**	= \$1,775,404	\$1,399,526
2018 Reserve Revenue @ 10%	\$0	\$0
2019 Est Fund Balance YTD - Unrestricted	\$1,615,377	\$1,376,785
2019 Est Fund Balance YTD - Restricted	\$ 160,027	\$ 22,741

*2018 YE Fund Balance represents the current amount in reserve as of 2018 YE close.

*2019 Est YTD Fund Balance represents the 2018 YE reserve netted against the actual 2018 expenditures and revenues. This figure will change throughout the year as additional 2019 expenditures and revenues are realized.

NOTE: 2018 expenditures, revenues, and resulting fund balance are year-to-date ONLY. The figures represented in this report are not intended to project a year-end balance for the LIO budget. The purpose of the report is to provide committee members a "financial snapshot" of LIO activities within a specific point in time.

2019 YTD Fiscal Report -
LIO - as of 10/31/19

Vendor Name	Description	Amount Authorized	Amount Paid - Prior Years	Amount Encumbered	Amount Paid 2019 YTD	Canceled Encumbrance	Total Amount Paid (Encumbrances + Actual)	Remaining Unpaid Balance
SOUTHEASTERN WI REGIONAL	County Surveyor	82,916.00	-	-	82,916.00	-	82,916.00	-
SOUTHEASTERN WI REGIONAL	<u>2018 Authorized Project</u> Vertical Datum Migration	27,249.00	-	-	4,508.00	-	4,508.00	22,741.00
SOUTHEASTERN WI REGIONAL	<u>2020 Authorized Project</u> Ortho and Oblique Imagery Capture	137,286.00	-	-	-	-	-	137,286.00
	TOTAL	\$ 247,451.00	\$ -	\$ -	\$ 87,424.00	\$ -	\$ 87,424.00	\$ 160,027.00

Milwaukee County - Land Information Office Budget							
	2015	2016	2017	2018	2019	2020	2019-2020
	ADOPTED BUDGET	VARIANCE					
REVENUES							
Retained fees-\$8 Portion	840,531	864,219	840,000	840,000	840,000	840,000	-
Other Misc Revenue	130	2,300	1,000	-	-	-	-
State grants	-	26,000	51,000	51,000	51,000	51,000	-
Total Revenues	840,661	892,519	892,000	891,000	891,000	891,000	-
EXPENSES							
Personal Services							
Direct Labor Charged	138,946	165,057	-	-	-	-	-
Offtime Charged	26,872	31,922	-	-	-	-	-
Fringe Benefits Charged	153,772	182,668	-	-	-	-	-
Indirect Overhead Charged	60	-	-	-	-	-	-
Direct Labor Applied	(137,848)	(165,057)	-	-	-	-	-
Offtime Applied	(26,660)	(31,922)	-	-	-	-	-
Fringe Benefits Applied	(152,557)	(182,668)	-	-	-	-	-
Potential Sal Adj-Budget	-	-	-	-	1,284	-	(1,284)
Salaries-Wages Budget	165,476	192,364	192,946	256,612	333,760	345,870	12,110
Overtime	154	-	-	-	-	-	-
Social Security Taxes	12,074	14,003	14,748	19,628	25,512	26,428	916
Adjustment -Social Security Taxes	-	-	-	-	-	-	-
Unemployment Compensation	-	-	-	-	-	-	-
Employe Merit Awards	-	-	-	-	-	-	-
Tool Allowance	-	-	-	-	-	-	-
Employee Health Care	29,642	28,443	35,059	71,335	75,535	82,220	6,685
Employee Pension	21,534	17,281	28,061	33,446	46,135	37,392	(8,743)
Legacy Healthcare	41,174	38,199	36,140	41,938	54,672	52,256	(2,416)
Legacy Pension	41,471	54,516	53,669	52,652	64,823	66,404	1,581
Adjustment - Legacy Healthcare	-	-	-	-	-	-	-
Personal Services	314,110	344,806	360,623	475,611	601,721	610,570	8,849
Commodities/Services							
Membership Dues	52	350	200	200	-	-	-
Contract Pers Serv-Short	4,050	-	5,000	5,000	70,000	55,636	(14,364)
Postage	38	9	100	100	-	-	-
Prof. Serv-Recurring Oper	512,341	174,696	176,000	82,916	82,916	82,916	-
Prof. Serv.-Nonrecur Oper	134,547	167,908	160,301	260,476	66,292	66,292	-
Tel and Tel Outside Ven	-	-	-	-	1,000	1,000	-
Internet Expenses	99	-	1,000	1,000	-	-	-
Printing and Stationery	373	765	1,000	1,000	-	-	-
R/M Computer Equip	-	-	-	-	-	-	-
Auto Allowance	-	355	500	500	500	500	-
Meetings Other Auth Travl	7,549	4,347	6,000	6,000	6,000	6,000	-
Sundry Services	851	480	-	-	-	-	-
Office Supplies	1,289	97	1,130	1,130	500	500	-
Computer Software	-	-	-	-	-	-	-
DP Supplies	-	-	-	-	-	-	-
Computer Equip-New- (cap)	-	(862)	-	-	-	-	-
Commodities/Services	661,189	348,145	351,231	358,322	227,208	212,844	(14,364)
Crosscharges - Service Charges							
Technical Support & Infrastructure	2,938	3,913	3,426	3,642	4,416	8,559	4,143
Prof Serv Div Services	-	96,851	87,523	-	-	-	-
IT Security	-	-	-	1,063	1,659	1,985	326
Risk Management Services	209	560	422	337	443	624	181
Prof. Serv. -Data Process Charges	22,942	-	20,000	-	-	-	-
DP Software Lease/Lcn Charges	-	49,224	45,700	-	-	-	-
DAS Services	-	-	-	-	-	-	-
R/M Computer Equip Charges	14,425	-	-	-	-	-	-
HOC Graphics	75	-	75	-	-	-	-
Administrative Services #6	-	-	-	5,025	5,443	6,273	830
Application Chgs - Network	2,491	3,914	7,754	9,792	10,547	10,218	(329)
HRIS Allocation	1,813	1,436	1,484	-	-	-	-
Worker Comp Med and WC Pay	1,028	825	1,071	1,876	1,274	1,626	352
Bldg Space Rental Alloc	-	-	-	19,242	19,780	19,242	(538)
Telephone Allocation	-	-	-	-	1,615	2,082	467
Insurance Services	404	111	377	389	618	733	115

Milwaukee County - Land Information Office Budget							
	2015	2016	2017	2018	2019	2020	2019-2020
	ADOPTED	ADOPTED	ADOPTED	ADOPTED	ADOPTED	ADOPTED	
	BUDGET	BUDGET	BUDGET	BUDGET	BUDGET	BUDGET	VARIANCE
Worker's Compensation Adm	135	-	-	-	-	-	-
Central Service Allocation	8,865	8,735	8,441	13,089	13,378	13,378	-
CH Complex Space Rental	-	-	-	-	-	-	-
IMSD Central Purchases	-	4,921	2,000	-	-	-	-
PC Charges	1,248	2,620	1,873	2,612	2,898	2,866	(32)
Crosscharges - Service Charges	56,573	173,110	180,146	57,067	62,071	67,586	5,515
							-
Total Expenditures	1,031,872	866,060	892,000	891,000	891,000	891,000	-
Reserve Contribution	191,211	(26,459)	-	-	-	-	-

LIO 2019 Workplan Update

TASK	STATUS	COMMENTS	PREVIOUS % COMPLETE	CURRENT % COMPLETE	LAST UPDATE	ASSIGNED TO	START DATE	END DATE	BUDGET	SPENT TO DATE	REMAINING FUNDS	SOURCE
1.) Planimetric Data Update	In Progress	In Progress	0	0	6/4/19	LIO	3/1/2019	5/31/2020	\$ 50,000	\$ 7,336	\$ 42,664	Recording Fees - Temporary Contractors
2.) 2020 Imagery Contract	In Progress	Create contract for 2020 capture	50	95	6/4/19	LIO/SEWRPC	6/1/2019	12/31/2019	\$ 137,286	\$ -	\$ 137,286	Recording Fees - 2020 SI Grant - SEWRPC
3.) 2020 LiDAR Contract	In Progress	Create contract for 2020 capture	50	95	6/4/19	LIO/SEWRPC	6/1/2019	12/31/2019	\$ 99,788		\$ 99,788	Recording Fees - 2019 SI Grant -
4.) Emergency Management - NG911 - 2020 DNC	In Progress	Requirements coming from State	0	0	6/4/19	LIO/EOM	1/1/2017	12/31/2019	\$ -		\$ -	
5.) Cadastral Improvements - Phase 1	Complete	Complete and Published	82	100	6/4/19	LIO	1/1/2018	12/31/2019	\$ 150,000	\$ 143,294	\$ 6,706	Recording Fees - Temporary Contractors
6.) Cadastral Improvements - Phase 2	In Progress	Deep dive phase for complex errors - new map products	0	0		LIO	12/1/2019	12/31/2020	\$ -		\$ -	Current Staffing
7.) Milwaukee County Zoning Data Compilation	Complete	Creating generalized categories	0	100	6/4/19	LIO	3/1/2018	12/31/2019			\$ -	Current Staffing
8.) Non-Map GIS	Not Started	Behind on Project Workplan	0	0		LIO	6/1/2018	12/31/2019	\$ -	\$ -	\$ -	Current Staffing
9.) Datum Modernization - Vertical	Complete	Complete and Published	90	100	6/4/19	LIO/SEWRPC	6/1/2018	7/1/2019	\$ 50,000	\$ 27,259	\$ 22,741	2017 SI Grant

LIO 2020 Workplan

TASK	STATUS	COMMENTS	PREVIOUS % COMPLETE	CURRENT % COMPLETE	LAST UPDATE	ASSIGNED TO	START DATE	END DATE	BUDGET	SPENT TO DATE	REMAINING FUNDS	SOURCE
1.) Planimetric Data Update	In Progress	In Production - Processing Updates	0	50	6/4/19	LIO	9/1/2019	5/31/2020	\$ 50,000	\$ 7,336	\$ 42,664	Recording Fees - Temporary Contractors
2.) 2020 Imagery Contract	In Progress	Create contract for 2020 capture	50	95	6/4/19	LIO/SEWRPC	6/1/2019	1/31/2020	\$ 137,286	\$ -	\$ 137,286	Recording Fees - 2020 SI Grant - SEWRPC
3.) 2020 LiDAR Contract	In Progress	Create contract for 2020 capture - 20K from WISDOT	50	95	6/4/19	LIO/SEWRPC	6/1/2019	1/31/2020	\$ 99,788		\$ 99,788	Recording Fees - 2019 SI Grant - WISDOT
4.) Emergency Management - NG911 - 2020 DNC	In Progress	Data Standard Published from WLIA	0	0	6/4/19	LIO/EOM	1/1/2017	12/31/2020	\$ -		\$ -	Current Staffing
5.) Processing of 2020 Imagery	Not Started	Create data services, seamless products, and section downloads website pages.	0	0		LIO	10/1/2020	2/28/2021			\$ -	Recording Fees
6.) Cadastral Improvements - Phase 2	In Progress	Deep dive phase for complex discrepancies	0	21		LIO	9/1/2019	12/31/2020	\$ -		\$ -	Current Staffing
7.) Processing of 2020 LiDAR	Not Started	Create data services, seamless products, and section downloads website pages.	0	0		LIO	10/1/2020	12/31/2020			\$ -	Recording Fees
8.) LiDAR Derivative Products	Not Started	Create products from data including surface and elevation models	0	0		LIO\SEWRPC	10/1/2020	5/31/2021			\$ -	Recording Fees - SEWRPC

2020 Workplan Narratives

1. Planimetric Data Update

The Planimetric data, (pavement edges, building footprints, pervious\impervious surfaces, waterline, utilities, etc.) has historically been updated after each capture of aerial imagery. We will be updating our existing planimetric data to match the 2018 aerial imagery. The planimetric data is county wide and puts our imagery into a vector format. The process will involve running a model that will pick up on areas with an expected change based on our addressing and cadastral datasets.

Previous updates have been completed through contracts with external vendors. This update will be more economical by using internal and contract staff to complete this project.

The resulting datasets are also used for base mapping and will be available for viewing and download at:

<https://lio.milwaukeecountywi.gov/Html5Viewer/index.html?viewer=MCLIO-Map>
<http://lio.milwaukeecountywi.gov/webapps/Data-Download-Map/>

2. 2020 Imagery Contract

The 7 Counties of the SEWPRC region will be completing a regional flight for 2020. Milwaukee County is continuing with a flight with a resolution of 3". This resolution has also been collected in 2018 and in 2015. The imagery collection contract has been written and is awaiting signatures for execution.

3. 2020 LiDAR Contract

Milwaukee County has collected high resolution elevation data (LiDAR, Light Detection and Ranging) every 5 years. The last collection of this data was from 2015. The LiDAR collection contract has been written and is awaiting signatures for execution.

4. Emergency Management – Next Generation 911 (NG911) and 2020 DNC Efforts

The need for a reliable NG911 GIS dataset is a growing necessity that will support the public-safety answering points, PSAP, and other emergency services. The project is still in the development and scoping phase but, the impact on local GIS organizations is slowly being uncovered. Centerline and address data may have to be redesigned to support the new NG911 program.

The [Wisconsin Land Information Association](#) (WLIA) [Technical Committee](#) has released an [address](#) and [centerline](#) data and publishing standard. The purpose of this standard is to establish a uniform, commonly accepted set of attribution that will allow for the

transfer and aggregation of address points in the State of Wisconsin. It was designed to be publication standard that could accommodate a wide set of derivative datasets to meet other business needs.

The LIO and OEM has also been supporting the efforts to prepare for the 2020 Democratic National Convention. Currently the workload has been around data inventories and government coordination. It is expected that the work will change in early 2020 to filling data gaps and delivering data services.

5. Processing of 2020 Imagery

After the imagery delivery has been made, the LIO will need to prep this large dataset for display and distribution. The LIO will need to create a seamless mosaic of the individual tiles of imagery. The LIO will also create a raster, image and cache service for public consumption. The data will also be prepped for data download in section and countywide format. Once this project is completed, announcements will be made in the LIO website making partners and public aware of the availability.

6. Cadastral Improvements Phase 2

The LIO will fix the complex discrepancies that were uncovered in the first phase of the cadastral project. Each issue will be fully researched and investigated so that a proper redraw can be performed. Due to the complexity, it is expected that an individual issue may take a day or more to complete. This work will be completed by experienced LIO staff.

1 – Basic (94)

- Issues: adding/cleaning up hooks, annotation, etc., copying and pasting data into the easement layer.

2 – Basic/Intermediate (74)

- Issues: condo verification and other simpler verification issues, adding lots (usually less than one block).

3 – Intermediate (300)

- Issues: mostly adding lots (usually 1 or 2 blocks), issues that might require some minor modification to subdivision/CSM/condominium boundaries, some verification issues that are more challenging than the ones in the previous category.

4 – Intermediate/Advanced (333)

- Issues: adding lots (multiple blocks), issues that might require 1 or 2 subdivisions/CSMs/condominiums be researched and/or redrawn.

5 – Advanced (115)

- Issues: issues that may require multiple subdivision/CSM/condo/tax parcel boundaries be researched and/or redrawn, some missing lots that looked like they would be very time consuming to add or like they might be missing curve data.

6 – Municipal Boundary (13)

- Issues: civil division boundary issues.

7. Processing of 2020 LiDAR Data

Once the data has been validated for quality and delivered to the County, the LIO will create a seamless coverage of the data. This will be a tremendous amount of data and storage will need to be acquired. This data will be made available for download in sections that are small enough to be transferred via the internet.

8. LiDAR Derivative Products

Once the classified LiDAR data has been organized and processed for the Milwaukee County GIS\IT environment, the LIO will create the derived products. These products can\will include:

- 1-foot contours
- Classification of high vegetation
- Classification of buildings
- 2D buildings
- Tree Canopy
- Intensity Imagery
- Digital Surface Model (DSM)
- Slope and Hillshade

It is the intention of the Regional Planning Commission to assist the LIO with the generation of these products to maintain quality and integrity.



Wisconsin Land Information Program 2020 Base Budget, Training & Education, and Strategic Initiative Grant Application

Complete this application form in order to receive 2020 Wisconsin Land Information Program (WLIP) grants, pursuant to Wisconsin Statute Section 16.967(7) and Wisconsin Administrative Code, Chapter Adm. 47.

Training & Education Grants may be used for the training and education of county employees for the design, development, and implementation of a land information system. Each county is eligible for a \$1,000 grant.

Strategic Initiative Grants are for the purposes of addressing statutory directives to create a statewide digital parcel map and to post certain parcel information online in the standard Searchable Format. Strategic Initiative grant funding is to be prioritized to achieve “benchmarks” for parcel quality and completeness. Each county is eligible for \$40,000 in 2020 Strategic Initiative grant funding.

There are four benchmarks for parcel data:

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

Counties must prioritize their Strategic Initiative grant activities toward achieving the benchmarks in numerical order. The benchmarks are designed to complement and dovetail with the county land information plan. A county may amend a plan with updates or revisions as appropriate. If amended, a copy of the amended plan and record of land information council approval should be sent to the WLIP.

Base Budget Grants enable a county to develop, maintain, and operate a basic land information system and may be used for the implementation of the county’s land information plan. Base Budget grants are only available to those counties with retained register of deeds document recording fees of less than \$100,000 in State FY 2019 (July 1, 2018–June 30, 2019). See the grant eligibility table on page 8 to confirm your county’s eligibility.

Applications should be submitted by December 31, 2019 or earlier. Please submit the application by emailing a digital PDF form that has been electronically filled-out (*not* a scanned image) to WLIP@wisconsin.gov. For questions, please contact the WLIP grant administrator at peter.herreid@wisconsin.gov or (608) 267-3369.

Grant application released	September 16, 2019
Grant application deadline	December 31, 2019
Grant activities eligible for reimbursement	Beginning January 1, 2020
Training & Education grants distributed	By February 28, 2020
Base Budget funds distributed	By April 30, 2020
First 50% of Strategic Initiative grant distributed (upon successful data submittal for V6)	By June 30, 2020
Second 50% of Strategic Initiative grant distributed	Upon grant project completion

How to Fill Out and Submit This Form:

- **DOWNLOAD THIS DOCUMENT & "FILE ► SAVE AS"** to save a local copy.
When saving, add your county name to the end, e.g.,
2020_WLIP_Grant_Application_StCroix.pdf
- **FILL OUT THE APPLICATION** – use Adobe Reader or Acrobat to fill in the application form electronically, by typing data into it. Do *not* fill out the form by hand. The instructions are numbered according to the question numbers on the application form and hyperlink to each corresponding question.
- **"FILE ► SAVE"** – to save as you go
- **ATTACH PAGES** – Attach addendum pages if applicable, or email as separate files
- **SUBMIT VIA EMAIL (WITH COUNTY NAME)** – Email a completed digital PDF form that has been electronically filled-out (*not* a scanned image) to WLIP@wisconsin.gov by December 31, 2019. Email subject line should include the name of your county, e.g.,
Subject: 2020 WLIP Grant Application - Racine

Training & Education Grant Application Instructions

- TE_#1** County submitted a 2019-2021 land information plan to DOA? All counties updated their county land information plan in 2018 to meet s. 59.72(3)(b). Wisconsin Administrative Code, Chapter Adm.47.06(3) requires that projects must be consistent with an approved county land information plan (also referred to as a county-wide land records modernization plan).
- TE_#2** Enter date of last county land information council meeting. According to s. 59.72(3m)(b), the county land information council shall review the priorities, needs, policies, and expenditures of a land information office and advise the county on matters affecting the land information office. The land information council must have met within the last 12 months for the county to be eligible for a WLIP grant.
- TE_#3** LIO subscribed to the Land Information Officer's listserv? Applicants must subscribe to the WLIP's e-mail listserv, doa-landinfo@lists.wi.gov.
- TE_#4** County's Retained Fee/Grant Report for 2018 submitted? According to s. 59.72(2)(b), a county must submit an annual report to DOA on WLIP retained fee and grant spending. All counties submitted a *Retained Fee/Grant Report* for 2018.
- TE_#5** Training & Education Award Eligible. The amount of \$1,000 is available to each county for 2020 Training & Education grants.
- TE_#6** Training & Education Award Amount Requested. Enter the amount requested (up to \$1,000).
- TE_#7** Brief Description of Intended Expenditures for Training & Education Grant. Provide information on plans to utilize the Training & Education grant funding. Aim for less than 1,800 characters. The font size will shrink as you type, becoming smaller to accommodate more text.
- TE_#8** Statement and Authorization of Land Information Officer. Land information officer name (typed) and date are required. Do not sign and scan the form. Handwritten signatures are *not* required. Submit the application by emailing a digital PDF form that has been electronically filled-out (*not* a scanned image) to WLIP@wisconsin.gov.

Strategic Initiative Grant Application Instructions

- SI_#1** Strategic Initiative Award Eligible. The amount of \$40,000 is available to each county for 2020 Strategic Initiative grants.
- SI_#2** Strategic Initiative Award Amount Requested. Enter the amount requested (up to \$40,000).
- SI_#3** Will the county use 2020 Strategic Initiative Funding to work toward Benchmark 1 and 2 in the Searchable Format in the first quarter of 2020? Indicate whether the county will use grant funding to work toward Benchmark 1 and Benchmark 2 in the Searchable Format. The county must meet the Searchable Format standard for the Version 6 Statewide Parcel Map Database Project (V6) data submittal, using grant funds to do so if necessary. V6 data submittals will be due March 31, 2020.

Figure 1 on the following page summarizes the benchmarks. For Benchmark 1 and 2 specifications, see the Submission Documentation. Note that the Submission Documentation may be tweaked for V6, with an effort to clarify and be consistent with previous versions of the Submission Documentation.

Searchable Format. In the Searchable Format, the county data submittal is ready for immediate aggregation into the statewide parcel layer. The county performs all data standardization and clean-up before submitting data. Data exactly matches the Searchable Format standard. The Searchable Format is defined in detail in the Submission Documentation.



Figure 1. Summary of 2020 benchmarks. The Searchable Format for Benchmarks 1 & 2 and other data submission requirements are detailed in the Submission Documentation.

Strategic Initiative Grant Application Instructions (Continued)

SI_#4 Will the county use 2020 Strategic Initiative Funding to work toward and/or maintain the Searchable Format for **V7** or **V8**? 2020 projects have a completion deadline of December 31, 2021—which means that Strategic Initiative grant projects can span two whole calendar years. The projected data submission deadline for V7 is March 31, 2021. Indicate whether the county will use 2020 Strategic Initiative grant funding to work toward and/or maintain the Searchable Format for V7 or V8.

SI_#5 **Benchmark 1 and 2 Land Information Plan Citations.** Provide only if you answered “Yes” to SI_#3 and/or SI_#4 above. List the corresponding citation (section and page numbers) from the county’s land information plan for the *Project Plan to Achieve the Searchable Format for Benchmarks 1 & 2*.

LIO certification upon data submission. Land information officers will be required to certify that data meets the standards for Benchmark 1 and 2 upon submission of data for V6. Counties will certify their own level of attribute completeness relative to an *element occurrence standard*. This means that if an element (such as a property address, a total assessed value, total property tax value, etc.) actually occurs for a given parcel, then this element should be included in the submitted dataset. This also means that there may be justifiable omissions from the submitted dataset. Examples might be missing tax data for tax exempt properties, no address when no structure is present on a property, etc. Data elements must be included only if they actually occur.

SI_#6 **Benchmark 1 and 2 Project Activities and Costs.** For Benchmark 1 and 2, provide costs for the project to be paid with WLIP Strategic Initiative grant funds. Itemize costs where possible. Costs may be estimates determined through quotes received from vendors for specific activities. However, please do **not** include vendor estimates as attachments with the completed application you submit. Type a concise description for each itemized cost, beginning with row1, column1. Enter dollar amount in column2 of row1. Then proceed to row2. The font size will shrink as you type, becoming smaller to accommodate more text. Aim for less than 40 characters per line.

Note on staff funding. The county may either utilize the expertise of existing county staff or hire contractors from the private sector as part of Strategic Initiative grant expenses. As long as county staff activities funded by the Strategic Initiative grant are for the purposes specified in the grant application, it is acceptable to use grant funds to reimburse county or municipal staff. However, **staff time must be broken down** into specific project activities under one or more Strategic Initiative benchmarks.

SI_#7 **Benchmark 1 and 2 Total Costs.** Maximum value is \$40,000. The “Total Costs” boxes are self-adding, which means they calculate the total automatically from the Itemized Costs boxes. Include *only* Strategic Initiative funds in total costs, which may **not exceed \$40,000** on this application form.

SI_#8 Will the county perform all of the data cleanup and standardization tasks described in the *V5 Observation Report* in order to meet the Searchable Format standard before submitting data for the **V6** call for data by March 31, 2020? Indicate whether the county will perform the tasks described in the *V5 Observation Report* (which describes the steps that must be taken in order to meet the Searchable Format standard) before submitting data for V6 by March 31, 2020. Counties must meet the Searchable Format standard for the V6 data submittal and into the foreseeable future, using grant funds to do so if necessary. This also entails submitting data that exactly matches the schema specifications for the Searchable Format, as detailed in the Submission Documentation. See SI_#3 above.

SI_#9 If you answered “No” to SI_#8 above, briefly describe how you will address the deficiencies identified in the *V5 Observation Report* in order to meet the Searchable Format standard, explain why the deficiencies cannot be rectified by the V6 call for data, and how they will be addressed. Aim for less than 1,800 characters. The font size will shrink as you type more text.

SI_#10 Is your county’s digital parcel fabric complete (including incorporated areas)? Give estimated year of completion (YYYY) if applicable. Note that there may exist within some county certain areas that do not require detailed parcel mapping, such as state forests. These areas can be treated as a single large parcel as long as they are designated as such in the submitted dataset (however, this exception does **not** apply to municipalities).

SI_#11 Will county use 2020 Strategic Initiative funding to work toward Benchmark 3? If the county’s digital parcel fabric is incomplete, indicate whether county will use Strategic Initiative grant funds to work toward completion.

SI_#12 **Benchmark 3 Land Information Plan Citations.** If a county has an incomplete digital parcel fabric, list the corresponding citation (section and page numbers) from the county’s land information plan for the *Project Plan for Parcel Completion*.

PLSS first approach. Some counties have a plan in place to complete PLSS remonumentation before completing the parcel fabric in a given area. Counties have the option of adopting a “PLSS first approach,” in which PLSS should be prioritized for areas not covered by the parcel fabric. If selecting a PLSS first approach, note this in the *Project Plan for PLSS*, described in SI_#18 below.

SI_#13 Benchmark 3 Project Activities and Costs. For Benchmark 3, provide costs for the project to be paid with WLIP Strategic Initiative grant funds. Itemize costs where possible. Costs may be estimates determined through quotes received from vendors for specific activities. However, please do **not** include vendor estimates as attachments with the completed application you submit.

SI_#14 Benchmark 3 Total Costs. Maximum value is \$40,000. The “Total Costs” boxes are self-adding, which means they calculate the total automatically from the Itemized Costs boxes. Include only Strategic Initiative funds in total costs, which may not exceed \$40,000 on this application form.

SI_#15 Is your county’s PLSS network complete and integrated into digital parcel layer? This includes: rediscovery of PLSS corner monuments and physical remonumentation of corners without existing monuments; establishing accurate coordinates on these corners based on a modern datum; posting tie sheets online for these corners; and integrating all county PLSS corners into the county parcel fabric. Give estimated year of completion (YYYY) if applicable.

SI_#16 Benchmark 4 waiver request to acquire lidar and/or aerial imagery. Strategic Initiative funds for 2020 are intended to be used for the purposes of parcel dataset development. However, it may be possible to use Strategic Initiative funds for LiDAR and/or aerial imagery, subject to the following conditions: First, a county would need to use the funds to meet parcel Benchmarks 1-3. Then, if a county has remaining Strategic Initiative grant funding, it may expend it on LiDAR and/or aerial imagery *before* Benchmark 4 (Completion and Integration of PLSS).

SI_#17 Will county use 2020 Strategic Initiative funding to work toward Benchmark 4 (Completion and Integration of PLSS)? Indicate whether Strategic Initiative grant funds will be used to make progress toward Benchmark 4.

PLSS data submission. All counties may be required to submit a digital copy of all county PLSS corner coordinates values for inclusion in the State Cartographer’s Office online SurveyControlFinder, and any other DOA-sanctioned statewide effort to collect PLSS datasets. At a minimum, all PLSS corner coordinate values established using Strategic Initiative funds should be tagged with their appropriate accuracy class (survey grade, sub-meter, or approximate).

SI_#18 Benchmark 4 Land Information Plan Citations. If a county has not achieved satisfactory completion and integration of its PLSS framework, list the corresponding citation (section and page numbers) from the county’s land information plan for the *Project Plan for PLSS*.

Project Plan for PLSS. If the county has not achieved a complete and integrated PLSS framework, the county must have a project *within the county land information plan* that outlines:

1. Planned approach for remonumenting, rediscovering, and establishing survey grade coordinates for PLSS corners, and integrating corners into the parcel fabric. Due to cost, accessibility, or land ownership, lower-quality coordinates may be substituted. However, lower grade coordinates should be the exception, rather than the rule. In addition, counties may, but are not required to, use Strategic Initiative grant funds to upgrade their PLSS from a NAD27 coordinate system to a more current datum.
2. Current status of PLSS data in the county including a tally of the total number of corners, their remonumentation status, and their coordinate status (accuracy class) if known. Accuracy classes include survey grade, sub-meter, and approximate.
 - **Survey grade** – Coordinates collected under the direction of a professional land surveyor, in a coordinate system allowed by s. 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision.
 - **Sub-meter** – Accuracies of 1 meter or better
 - **Approximate** – Accuracies of within 5 meters or to coordinates derived from public records and other relevant information.
3. Goals for the funding period, including the number of corners to be remonumented and/or rediscovered, the number to have new coordinates established, the accuracy class for these new coordinates, and the way in which these points will be integrated into the parcel fabric.
4. Documentation for any missing corner data.
5. Efforts to collaborate with neighboring counties.

SI_#19 Benchmark 4 Project Activities and Costs. For Benchmark 4, provide costs for the project to be paid with WLIP Strategic Initiative grant funds. Itemize costs where possible. Costs may be estimates determined through quotes received from vendors for specific activities. However, please do **not** include vendor estimates as attachments with the completed application you submit.

SI_#20 **Benchmark 4 Total Costs.** Maximum value is \$40,000. The “Total Costs” boxes are self-adding, which means they calculate the total automatically from the Itemized Costs boxes. Include only Strategic Initiative funds in total costs, which may not exceed \$40,000 on this application form.

SI_#21 **Other County-Level Strategic Initiative Projects.** Applies only to situations in which a county has already met Benchmarks 1, 2, 3, and 4 (or 1-3 with LiDAR/aerial imagery waiver). Specifically, this entails:

- Benchmarks 1 and 2 – Parcel and zoning data with extended parcel attributes will be submitted by March 31, 2020 for the V6 call for data exactly matching the Searchable Format standard
- Benchmark 3 – The county’s digital parcel fabric is complete
- Benchmark 4 – PLSS framework has reached a level of satisfactory completion and integration, which is documented in the “PLSS” Foundational Element layer status section of the county land information plan (with the exception of LiDAR/aerial imagery waiver counties described in SI_#16)

County-Level Strategic Initiative project(s). If a county has already met Benchmarks 1, 2, 3, and 4 (or 1-3 with LiDAR/aerial imagery waiver), it will still remain eligible for \$40k in 2020 Strategic Initiative grant funding. Such a county may use the Strategic Initiative funding for a project as listed *within the county land information plan*. For example, another Strategic Initiative project might be to complete or comprehensively update another Foundational Element layer—such as LiDAR, orthoimagery, address points, street centerlines, land use, zoning, or administrative boundaries. For the expanded list of Foundational Elements, see the *2018 Uniform Instructions for Preparing County Land Information Plans*.

Strategic Initiative funding exclusions. Strategic Initiative grant funding may *not* be used for renewing annual software vendor contracts, ongoing operational costs, or maintenance of existing layers. (However, WLIP Base Budget grant funds may be used for these expenses, as well as retained fees.)

SI_#22 Estimated amount of \$40,000 to be left after applying any costs to achieve Benchmarks 1-4 (or 1-3 for LiDAR/aerial imagery waiver counties). Enter zero or “More than zero” and dollar amount.

Addendum. If “More than zero” is selected, use the *2020 WLIP Grant Application Addendum* to document the projects the county will use the Strategic Initiative funding for. You may attach as many grant application addendum pages as necessary. Addendum pages are available at doa.wi.gov/WLIP. LiDAR/aerial imagery waiver counties should also use the addendum to document the LiDAR/aerial imagery project you will use the Strategic Initiative funding for. Others should leave blank if not applicable.

SI_#23 **TOTAL ALL STRATEGIC INITIATIVE GRANT PROJECTS.** Total should *not* exceed \$40,000—the Strategic Initiative Award Eligible amount. Include costs for addendum projects in Strategic Initiative total if applicable. If the county anticipates spending more than \$40,000 of Strategic Initiative funds on a project, this can be noted elsewhere, such as the county land information plan.

SI_#24 **Statement and Authorization of Land Information Officer.** LIO name (typed) and date are required. Do *not* sign and scan the form. Handwritten signatures are *not* required. Submit the application by emailing a digital PDF form that has been electronically filled-out (*not* a scanned image) to WLIP@wisconsin.gov.

Base Budget Grant Application Instructions

- BB_#1** **Base Budget Award Eligible.** The amount your county is eligible for 2020 Base Budget grant. Refer to the grant eligibility table on page 8 for amount. If your county is not eligible, *leave blank* the Base Budget application pages.
- BB_#2** **Base Budget Award Amount Requested.** Enter the amount requested. The amount of funds requested/dispensed may not exceed your county's eligible amount from the grant eligibility table on page 8.
- BB_#3** **Base Budget Grant Project Title.** Provide a title for the Base Budget project your county plans to undertake that accurately but concisely describes the project.
- BB_#4** **Land Information Spending Category.** Select the project activity area (spending category) covered by the Base Budget project title. Refer to Chapter Adm. 47.03 for eligible projects and activities.

Projects must fall under one of the following categories:

- Digital parcel mapping
- PLSS remonumentation
- Other parcel work (e.g., ROD indexing)
- LiDAR
- Orthoimagery
- Address Points
- Street Centerlines
- Software
- Hardware
- Website Development/Hosting Services
- Administrative Activities and Management
- Training and Education
- Other (specify) – **Do not select "Other" as a Base Budget spending category unless the project genuinely does not fit into one of the categories above*

Note on staff funding. If the county intends to fund either in-house staff or third-party contractors with Base Budget grant funds, the work of these staff persons must be broken down into one or more of the categories above. In other words, while staff expenses or salary are eligible expenses, *it is not correct to list "staff expenses" or "salary" as a project activity area.* Instead, break down the staff expenses into one or more of the categories above.

Also note that state statute 59.72(2)(b) requires counties to report on grant expenditures (as well as retained fee expenditures) in each of the land information spending categories above in a *Retained Fee/Grant Report* by June 30th of each year.

- BB_#5** **Land Information Plan Citations.** For each project, list the corresponding citation (section and page numbers) from the county's plan. All proposed grant activities must reflect goals and objectives contained in the county's land information plan.
- BB_#6** **Project Activities and Costs.** For each project, provide costs for the project to be paid with WLIP grant funds. Itemize costs where possible. Costs may be estimates determined through quotes received from vendors for specific activities. However, please do *not* include vendor estimates as attachments with the completed application you submit. Type a concise description for each itemized cost, beginning with row1, column1. Enter dollar amount in column2 of row1. Then proceed to row2. The font size will shrink as you type, becoming smaller to accommodate more text. Aim for less than 40 characters per line.
- BB_#7** **Base Budget Project Total.** The "Base Budget Project Total" boxes are self-adding, which means they calculate the total automatically from the Itemized Costs boxes.
- BB_#8-#22** Fill out questions 8-12, 13-17, and 18-22 only if your county has *multiple* Base Budget projects. Counties with more than four Base Budget projects should attach additional pages of the *WLIP 2020 Grant Application Addendum*. You may attach as many addendum pages as necessary or email them as separate files. Addendum pages are available at doa.wi.gov/WLIP.
- BB_#23** **TOTAL ALL BASE BUDGET PROJECT COSTS.** Total should not exceed Base Budget Award Eligible amount shown in BB_#1. Include costs for Base Budget addendum projects in Base Budget total if applicable.
- BB_#24** **Statement and Authorization of Land Information Officer.** Land information officer name (typed) and date are required. Do not sign and scan the form. Handwritten signatures are *not* required. Submit the application by emailing a digital PDF form that has been electronically filled-out (*not* a scanned image) to WLIP@wisconsin.gov.

2020 Grant Eligibility Table

	State FY19 Retained Fees (July 2018-June 2019)	BB Grant Eligibility (\$100k – FY19 Retained Fees)	Strategic Initiative Grant Eligibility	Training & Education Grant Eligibility	Total Grant Eligibility Amount	
Adams	50,216	49,784	40,000	1,000	90,784	
Ashland	22,608	77,392	40,000	1,000	118,392	
Barron	69,680	30,320	40,000	1,000	71,320	
Bayfield	36,424	63,576	40,000	1,000	104,576	
Brown	284,432	NA	40,000	1,000	41,000	
Buffalo	22,664	77,336	40,000	1,000	118,336	
Burnett	41,528	58,472	40,000	1,000	99,472	
Calumet	62,496	37,504	40,000	1,000	78,504	
Chippewa	82,096	17,904	40,000	1,000	58,904	
Clark	41,144	58,856	40,000	1,000	99,856	
Columbia	81,352	18,648	40,000	1,000	59,648	
Crawford	22,576	77,424	40,000	1,000	118,424	
Dane	625,296	NA	40,000	1,000	41,000	
Dodge	96,952	3,048	40,000	1,000	44,048	
Door	66,560	33,440	40,000	1,000	74,440	
Douglas	54,656	45,344	40,000	1,000	86,344	
Dunn	50,624	49,376	40,000	1,000	90,376	
Eau Claire	113,272	NA	40,000	1,000	41,000	
Florence	9,960	90,040	40,000	1,000	131,040	
Fond du Lac	112,392	NA	40,000	1,000	41,000	
Forest	19,128	80,872	40,000	1,000	121,872	
Grant	58,968	41,032	40,000	1,000	82,032	
Green	46,872	53,128	40,000	1,000	94,128	
Green Lake	29,752	70,248	40,000	1,000	111,248	
Iowa	35,512	64,488	40,000	1,000	105,488	
Iron	14,736	85,264	40,000	1,000	126,264	
Jackson	31,624	68,376	40,000	1,000	109,376	
Jefferson	97,352	2,648	40,000	1,000	43,648	
Juneau	41,752	58,248	40,000	1,000	99,248	
Kenosha	178,408	NA	40,000	1,000	41,000	
Kewaunee	26,312	73,688	40,000	1,000	114,688	
La Crosse	126,288	NA	40,000	1,000	41,000	
Lafayette	24,176	75,824	40,000	1,000	116,824	
Langlade	31,944	68,056	40,000	1,000	109,056	
Lincoln	46,400	53,600	40,000	1,000	94,600	
Manitowoc	91,880	8,120	40,000	1,000	49,120	
Marathon	167,920	NA	40,000	1,000	41,000	
Marinette	77,512	22,488	40,000	1,000	63,488	
Marquette	25,736	74,264	40,000	1,000	115,264	
Menominee	3,168	96,832	40,000	1,000	137,832	
Milwaukee	749,776	NA	40,000	1,000	41,000	
Monroe	57,864	42,136	40,000	1,000	83,136	
Oconto	68,928	31,072	40,000	1,000	72,072	
Oneida	86,632	13,368	40,000	1,000	54,368	
Outagamie	216,432	NA	40,000	1,000	41,000	
Ozaukee	102,632	NA	40,000	1,000	41,000	
Pepin	12,720	87,280	40,000	1,000	128,280	
Pierce	49,984	50,016	40,000	1,000	91,016	
Polk	79,144	20,856	40,000	1,000	61,856	
Portage	80,608	19,392	40,000	1,000	60,392	
Price	25,632	74,368	40,000	1,000	115,368	
Racine	211,712	NA	40,000	1,000	41,000	
Richland	22,264	77,736	40,000	1,000	118,736	
Rock	190,568	NA	40,000	1,000	41,000	
Rusk	26,760	73,240	40,000	1,000	114,240	
Sauk	119,264	NA	40,000	1,000	41,000	
Sawyer	43,624	56,376	40,000	1,000	97,376	
Shawano	58,096	41,904	40,000	1,000	82,904	
Sheboygan	127,192	NA	40,000	1,000	41,000	
St. Croix	131,128	NA	40,000	1,000	41,000	
Taylor	28,824	71,176	40,000	1,000	112,176	
Trempealeau	36,280	63,720	40,000	1,000	104,720	
Vernon	38,944	61,056	40,000	1,000	102,056	
Vilas	63,032	36,968	40,000	1,000	77,968	
Walworth	153,216	NA	40,000	1,000	41,000	
Washburn	35,528	64,472	40,000	1,000	105,472	
Washington	158,808	NA	40,000	1,000	41,000	
Waukesha	461,160	NA	40,000	1,000	41,000	
Waupaca	76,312	23,688	40,000	1,000	64,688	
Waushara	42,568	57,432	40,000	1,000	98,432	
Winnebago	185,032	NA	40,000	1,000	41,000	
Wood	85,136	14,864	40,000	1,000	55,864	
Total	6,948,168	2,766,760	22	2,880,000	72,000	5,718,760



2020 WLIP Training & Education Grant Application

County:

- 1. County submitted a 2019-2021 land information plan to DOA Yes No
- 2. Enter date of last county land information council meeting (dd/mm/yyyy) ►
- 3. LIO subscribed to the Land Information Officer's listserv Yes No
- 4. County's *Retained Fee/Grant Report* for 2018 submitted Yes No
- 5. Training & Education Award Eligible **\$ 1,000.00**
- 6. Training & Education Award Amount Requested **\$**
- 7. Brief Description of Intended Expenditures for Training & Education Grant

8. Statement and Authorization of Land Information Officer
As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Training & Education grant projects must be completed by December 31, 2021.

LIO Name (typed)

Date (dd/mm/yyyy)



2020 WLIP Strategic Initiative Grant Application

County:

- | | |
|--|---|
| 1. Strategic Initiative Award Eligible | \$ 40,000.00 |
| 2. Strategic Initiative Award Amount Requested | \$ <input style="width: 150px; height: 25px;" type="text"/> |

BENCHMARK 1 & BENCHMARK 2

3. The county must meet Benchmark 1 and Benchmark 2 for the **V6** call for data by March 31, 2020 in the Searchable Format. Will the county use 2020 Strategic Initiative Funding to work toward the Searchable Format for **V6** Benchmark 1 and 2 in the first quarter of 2020?
- Yes
 No
4. Will the county use 2020 Strategic Initiative Funding to work toward and/or maintain the Searchable Format for **V7** or **V8**?
- Yes
 No
5. Benchmark 1 and 2 Land Information Plan Citations for *Project Plan to Achieve Searchable Format for Benchmarks 1 & 2* – Section and page numbers (If answered “No” to #3-4 above, skip down to #8 below.)
-

6. Benchmark 1 and 2 Project Activities ▼	Costs ▼
7. Benchmark 1 and 2 Total Costs ▶	
<input style="width: 100px; height: 25px;" type="text"/>	

8. Will county perform all of the data cleanup and standardization tasks described in the *V5 Observation Report* in order to meet the Searchable Format standard before submitting data for the **V6** call for data by March 31, 2020?
- Yes ▶ Skip down to #10 below
 NA – Not applicable because no deficiencies identified in *Observation Report* ▶ Skip down to #10 below
 No
9. If you answered “No” to SI_#8 above, briefly describe how you will address the deficiencies identified in the *V5 Observation Report* in order to meet the Searchable Format standard, explain why the deficiencies cannot be rectified by the V6 call for data, and how they will be addressed:

BENCHMARK 3

10. Is your county's digital parcel fabric complete (including incorporated areas)?

Yes, parcel fabric complete

No, county needs to work toward Benchmark 3 ▶ Estimated year of completion ▶

11. Will county use 2020 Strategic Initiative funding to work toward Benchmark 3 (Completion of County Parcel Fabric)?

Yes

No ▶ Skip down to #15 below

12. Benchmark 3 Land Information Plan Citations for *Project Plan for Parcel Completion* – Section and page numbers

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13. Benchmark 3 Project Activities ▼

Costs ▼

		14. Benchmark 3 Total Costs ▶	

BENCHMARK 4

15. Is your county's PLSS framework complete and integrated into digital parcel layer?

Yes, PLSS network complete and integrated

No, county needs to work toward Benchmark 4 ▶ Estimated year of completion ▶

16. Benchmark 4 waiver request – Check the waiver box below if you wish to request a waiver from Benchmark 4 in favor of LiDAR and/or Aerial Imagery costs

No / Not Applicable

Yes, waiver requested in favor of **LiDAR** project ▶ Fill out *2020 WLIP Grant Application Addendum*

Yes, waiver requested in favor of **Imagery** project ▶ Fill out *2020 WLIP Grant Application Addendum*

17. Will county use 2020 Strategic Initiative funding to work toward Benchmark 4 (Completion and Integration of PLSS)?

Yes

No ▶ Skip down to #21 below

18. Benchmark 4 Land Information Plan Citations for *Project Plan for PLSS* – Section and page numbers

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19. Benchmark 4 Project Activities ▼

Costs ▼

		20. Benchmark 4 Total Costs ▶	

OTHER COUNTY-LEVEL STRATEGIC INITIATIVE PROJECTS

21. County anticipates meeting Benchmarks 1-4 (or 1-3 with LiDAR/aerial imagery waiver) **and** foresees having some of the 40k Strategic Initiative funding “leftover”?

- Yes
- No

22. Estimated amount of 40k to be left after applying any costs to achieve Benchmarks 1-4 (or 1-3 for LiDAR/aerial imagery waiver counties)

- Zero
- More than zero ▶ Specify amount ▶ \$

If “More than zero” is selected, use the *2020 WLIP Grant Application Addendum* to describe the projects you will use the Strategic Initiative funding for.

23. TOTAL ALL STRATEGIC INITIATIVE PROJECTS (should equal ≤ \$40,000.00) ▶ \$

24. Statement and Authorization of Land Information Officer

As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Strategic Initiative grant projects must be completed by December 31, 2021.

LIO Name (typed)

Date (dd/mm/yyyy)



2020 WLIP Base Budget Grant Application

County:

1. Base Budget Award Eligible (from grant eligibility table on page 8) \$

2. Base Budget Award Amount Requested \$

3. **Base Budget Grant Project Title 1**

4. Land Information Spending Category:

5. Land Information Plan Citations – Section and page numbers

6. <u>Project Activities</u> ▼	<u>Costs</u> ▼		
7. Base Budget Project 1 Total ▶			<input style="width: 80px; height: 25px;" type="text"/>

8. **Base Budget Grant Project Title 2**

9. Land Information Spending Category:

10. Land Information Plan Citations – Section and page numbers

11. <u>Project Activities</u> ▼	<u>Costs</u> ▼		
12. Base Budget Project 2 Total ▶			<input style="width: 80px; height: 25px;" type="text"/>

13. Base Budget Grant Project Title 3

14. Land Information Spending Category:

15. Land Information Plan Citations – Section and page numbers

16. Project Activities ▼

Costs ▼

		17. Base Budget Project 3 Total ▶	

18. Base Budget Grant Project Title 4

19. Land Information Spending Category:

20. Land Information Plan Citations – Section and page numbers

21. Project Activities ▼

Costs ▼

		22. Base Budget Project 4 Total ▶	

23. TOTAL ALL BASE BUDGET PROJECT COSTS (not to exceed BB_#1) ▶

\$

24. Statement and Authorization of Land Information Officer

As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Base Budget grant projects must be completed by December 31, 2021.

LIO Name (typed)

Date(dd/mm/yyyy)

2020 WLIP Grant Application Addendum

County:

Select Addendum Type:

- Base Budget Project(s)
- Other county Strategic Initiative Project(s)
- LiDAR project – enabled by waiver from Benchmark 4
- Aerial Imagery project – enabled by waiver from Benchmark 4

1. Project Title 1

2. Land Information Spending Category:

3. Land Information Plan Citations – Section and page numbers

4. Addendum Project 1 Activities ▼ Costs ▼

5. Addendum Project 1 Total ▶			

6. Project Title 2

7. Land Information Spending Category:

8. Land Information Plan Citations – Section and page numbers

9. Addendum Project 2 Activities ▼ Costs ▼

10. Addendum Project 2 Total ▶			

TOTAL ALL PROJECTS – Please include total, including addendum project costs, on application itself

2020 WLIP Grant Application Addendum II

County:

Select Addendum Type:

- Base Budget Project(s)
- Other county Strategic Initiative Project(s)
- LiDAR project – enabled by waiver from Benchmark 4
- Aerial Imagery project – enabled by waiver from Benchmark 4

1. Project Title 3

2. Land Information Spending Category:

3. Land Information Plan Citations – Section and page numbers

4. Addendum Project 3 Activities ▼ Costs ▼

		5. Addendum Project 3 Total ▶	

6. Project Title 4

7. Land Information Spending Category:

8. Land Information Plan Citations – Section and page numbers

9. Addendum Project 4 Activities ▼ Costs ▼

		10. Addendum Project 4 Total ▶	

TOTAL ALL PROJECTS – Please include total, including addendum project costs, on application itself

2020 WLIP Grant Application Addendum III

County:

Select Addendum Type:

- Base Budget Project(s)
- Other county Strategic Initiative Project(s)
- LiDAR project – enabled by waiver from Benchmark 4
- Aerial Imagery project – enabled by waiver from Benchmark 4

1. Project Title 5

2. Land Information Spending Category:

3. Land Information Plan Citations – Section and page numbers

4. Addendum Project 5 Activities ▼ Costs ▼

5. Addendum Project 5 Total ▶			

6. Project Title 6

7. Land Information Spending Category:

8. Land Information Plan Citations – Section and page numbers

9. Addendum Project 6 Activities ▼ Costs ▼

10. Addendum Project 6 Total ▶			

TOTAL ALL PROJECTS – Please include total, including addendum project costs, on application itself



**DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES MANAGEMENT
MILWAUKEE COUNTY LAND INFORMATION OFFICE**

633 West Wisconsin Avenue, Suite 903, Milwaukee, WI 53203 (414) 278-3927

MEMORANDUM

TO: Land Information Council
FROM: Kevin Bruhn, Land Information Officer
DATE: November 15, 2019
SUBJECT: Planimetric Data Update

BACKGROUND

The planimetric data, (pavement edges, building footprints, pervious\impervious surfaces, waterline, utilities, etc.) has historically been updated after each capture of aerial imagery. This project is to refresh the Milwaukee County data that was completed in 2010 and 2013 and last updated in 2015. The update area has initially been identified at 4.47 square miles or about 2% of the county but, after a more comprehensive data change processing model was created, and it has been determined that 21.48 square miles of area need to be reviewed and updated. The new total also includes reviewing all county owned sites.

Previous projects were completed with external resources and usually covered 17 square miles or 7% of the county each time. It was determined that bringing this work inhouse would reduce cost and be able to control the quality of the edits more effectively.

Base planimetric and topographic data was acquired from Franklin, Greenfield, Oak Creek, Wauwatosa and West Allis. The data was used to further identify update areas in these municipalities. It is the intention to keep this data up dated more frequently with data service feeds and introducing methods of data integration between the local municipalities and the County.

ACTIVITIES THIS PERIOD: 6/19 - 12/19

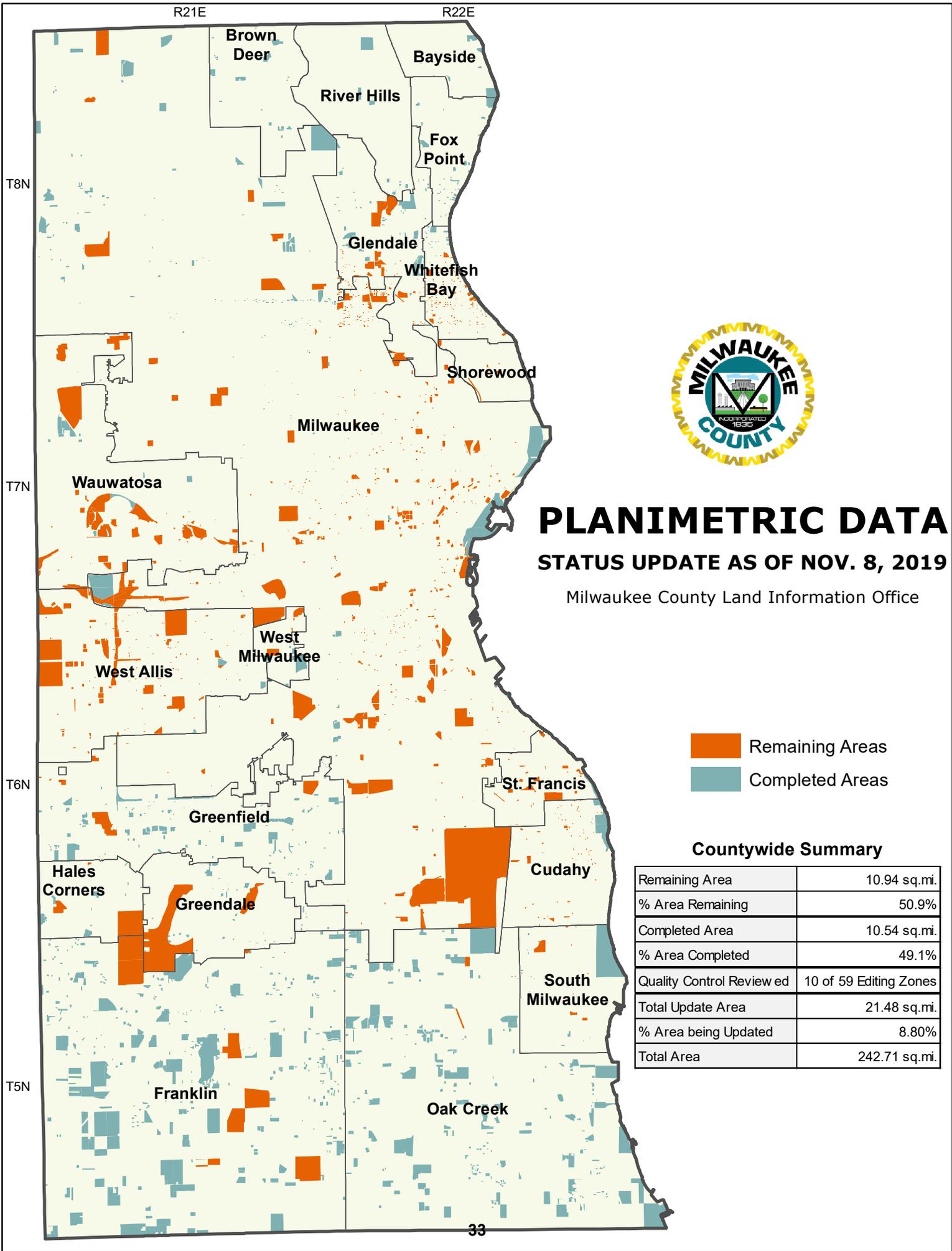
- Created automated model to detect change more accurately
- Created zones for processing and quality control
- Started project to update data
- Created tools to generate linework for finals deliverables

NEXT

- Complete editing and review for quality control
- Distribute to partnering municipalities
- Update in house data products and data delivery sites
- Generate all final deliverables

Attached:

Map of areas to be updated
Project status update maps



PLANIMETRIC DATA

STATUS UPDATE AS OF NOV. 8, 2019

Milwaukee County Land Information Office

- Remaining Areas
- Completed Areas

Countywide Summary

Remaining Area	10.94 sq.mi.
% Area Remaining	50.9%
Completed Area	10.54 sq.mi.
% Area Completed	49.1%
Quality Control Reviewed	10 of 59 Editing Zones
Total Update Area	21.48 sq.mi.
% Area being Updated	8.80%
Total Area	242.71 sq.mi.

R21E

R22E

T8N

T7N

T6N

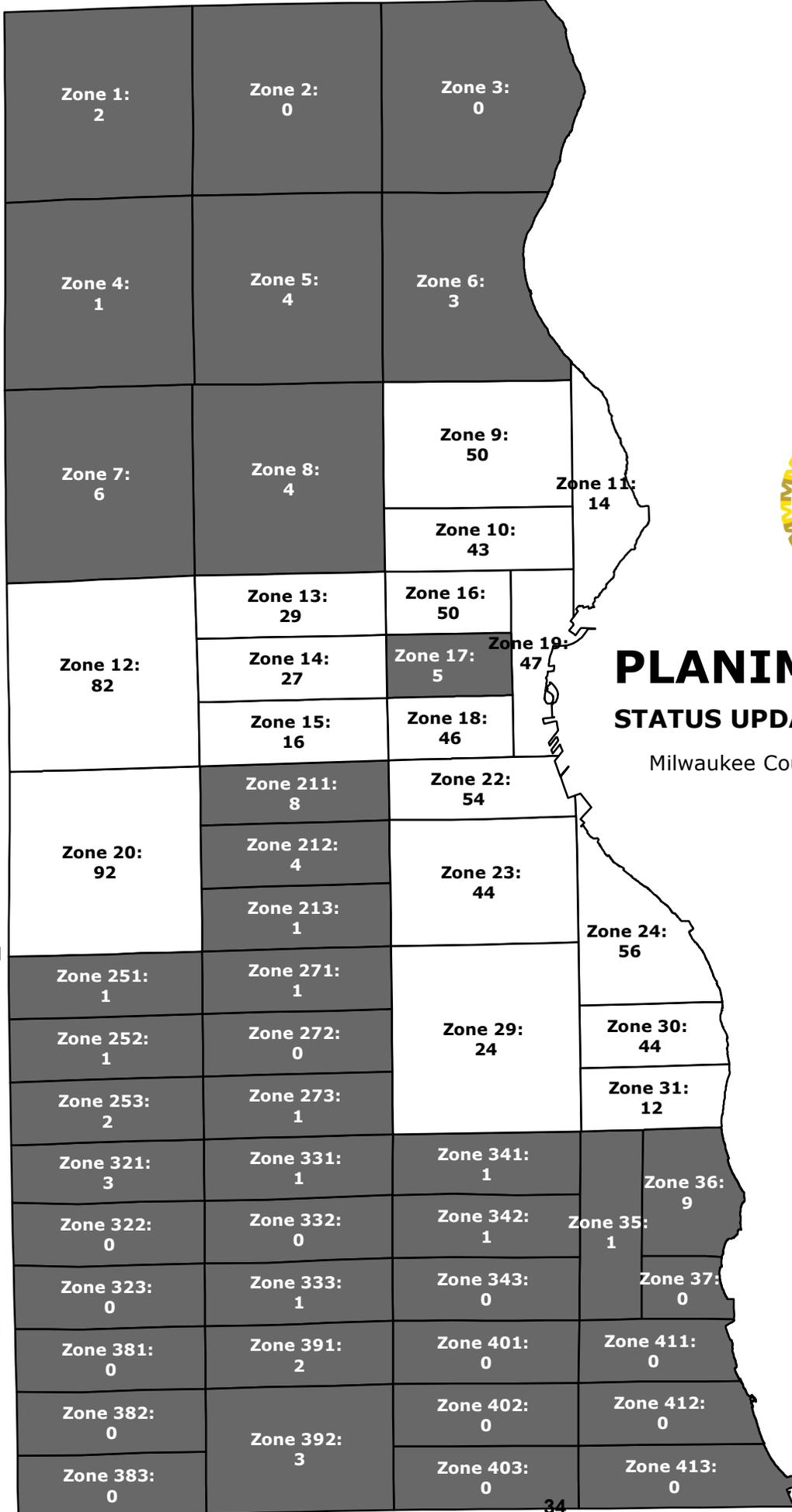
T5N



PLANIMETRIC DATA

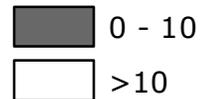
STATUS UPDATE AS OF NOV. 8, 2019

Milwaukee County Land Information Office



Editing Zones

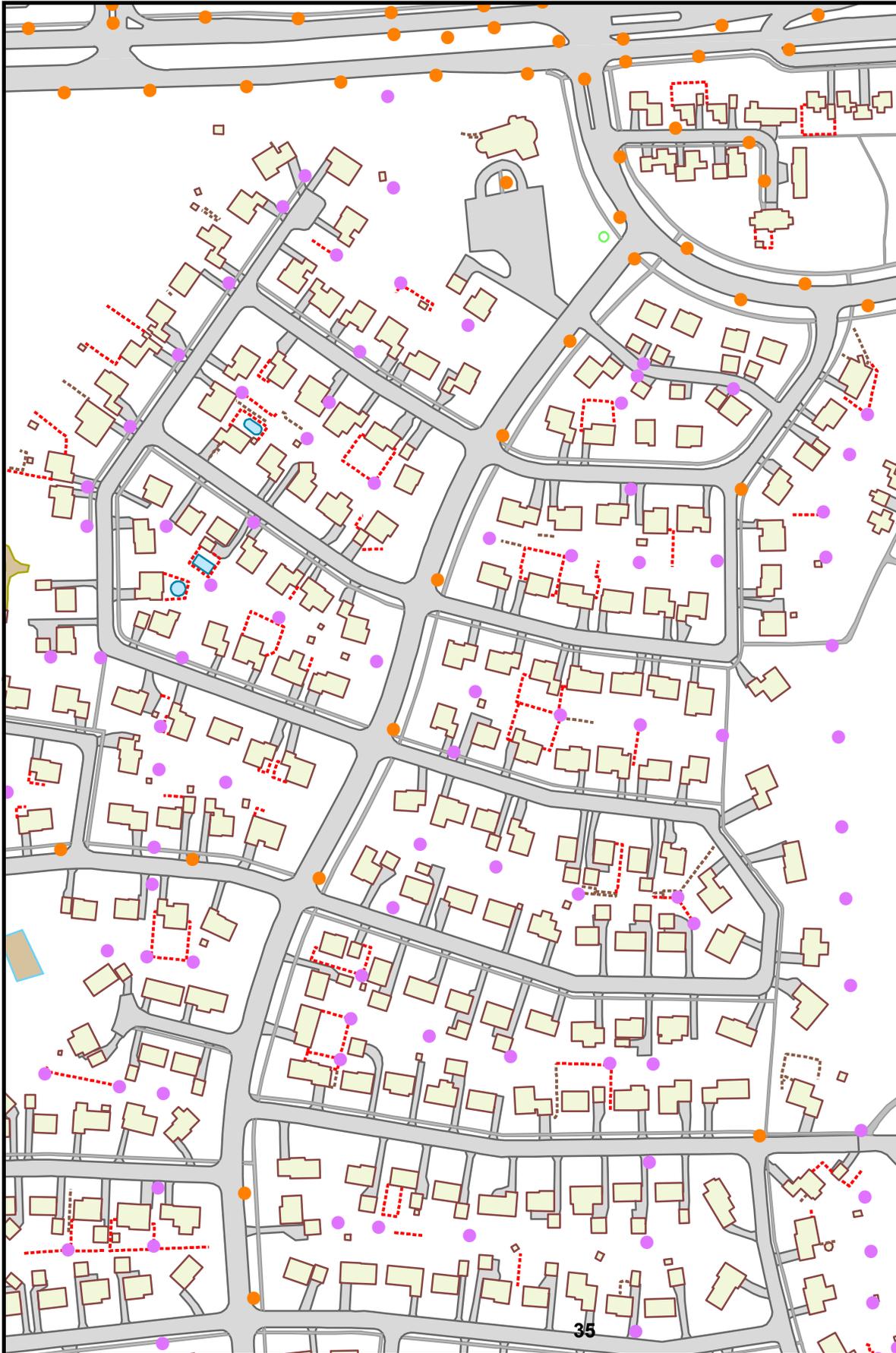
Areas Remaining:





PLANIMETRIC DATA FEATURES BEING UPDATED

Milwaukee County Land Information Office



- Utilities**
- Communications
- Light Pole
- Power or Telephone Pole
- Transmission
- Utilities**
- Communications
- Pipeline
- Substation Structure
- Transmission
- Structure**
- Bridge
- Fence
- Propane Tank
- Sign or Billboard Symbol
- Structure
- Wall
- Structure**
- Bridge
- Concrete
- Water Features
- Fence, Guard Rail
- Pool
- Ruin Foundation Outline
- Structure
- Wall
- Other
- Park and Recreation**
- Recreational: Athletic Fields, Courts, Baseball Diamonds
- Recreational: Bleachers
- Recreational: Golf Course Related
- Transportation**
- ⊗ Railroad Signal
- Transportation**
- Railway
- Paved Road
- Sidewalk
- Trail
- Unpaved Road
- Utilities**
- Communication
- Substation Structure
- Transmission
- Hydrographic**
- Water Body
- Park and Recreation Polygons**
- Athletic Fields-Courts-Baseball Diamonds
- Bleachers
- Golf Course Related
- Transportation**
- Paved Road
- Sidewalk
- Unpaved Road



**DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES MANAGEMENT
MILWAUKEE COUNTY LAND INFORMATION OFFICE**

633 West Wisconsin Avenue, Suite 903, Milwaukee, WI 53203 (414) 278-3927

MEMORANDUM

TO: Land Information Council
FROM: Kevin Bruhn, Land Information Officer
DATE: November 26, 2019

SUBJECT: Cadastral Improvements

BACKGROUND

The process of updating the City of Milwaukee Cadastral data was developed 2017. Differences and inconsistencies were noted between the County and City data and a project to standardize this data was created. A pilot project was started in mid-October of 2017 that looked at 6 quarter sections throughout the City to set a foundation for the project. The findings in the pilot project were consistent throughout the 6 quarter sections and staff determined that it would be feasible to move forward on a County wide project. Phase 1 of the project focused on the annotation, cartographic lines, and geometry issues.

- The annotation cleanup addressed such items as varying placement of annotation, overstrikes, spacing, easement, and missing data.
- The cartographic lines focused on removing the duplicate lines, correcting the subtypes in attributes tables, fixing and the location of lines, and addressing the easement details.
- The geometry issues focused on the misaligned lines and polygons for Certified Survey Maps, Condominiums, and Subdivisions Plats for current data and historical data.

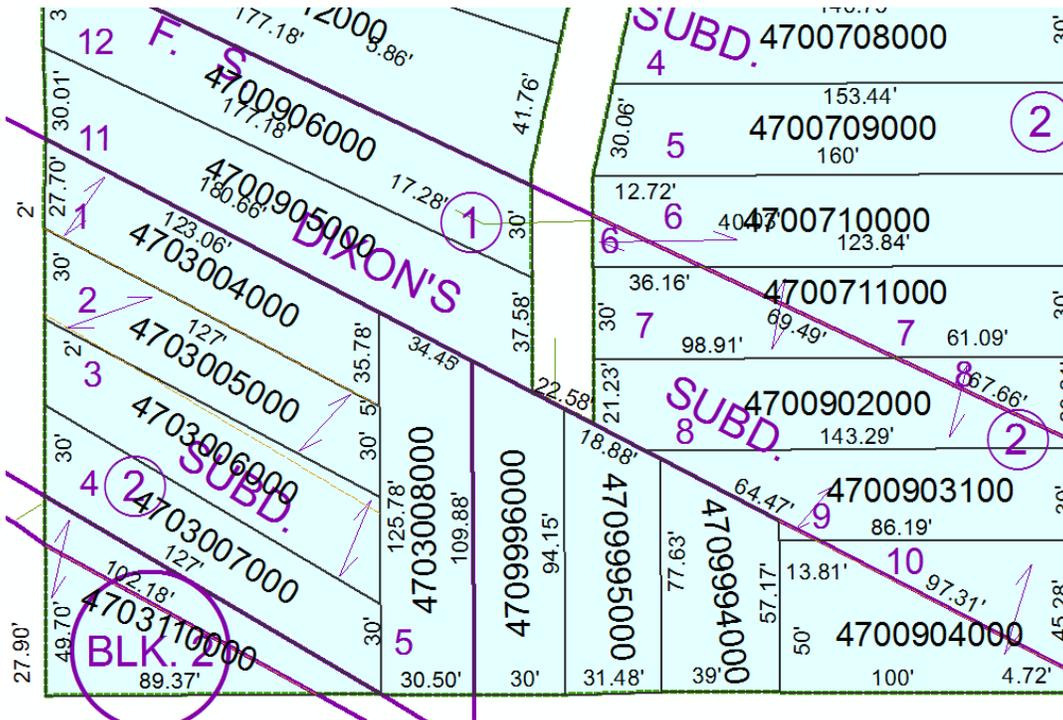
The second phase of this project will fix any remaining specific problem areas like city and county owned land, editing the Condominium data for consistency, editing of Subdivision and Certified Survey polygons, issues with the parcel data, and right of way line work. All line work changes are validated from recorded deeds and documents. Documents that are used are being attached to the changes for historical reference. Any property line changes are documented with the plat and document number associated with that adjustment. The time that is needed to research line work changes for phase 2 is more time consuming than the issues from phase 1.

ACTIVITIES THIS PERIOD: 6/19 – 12/19

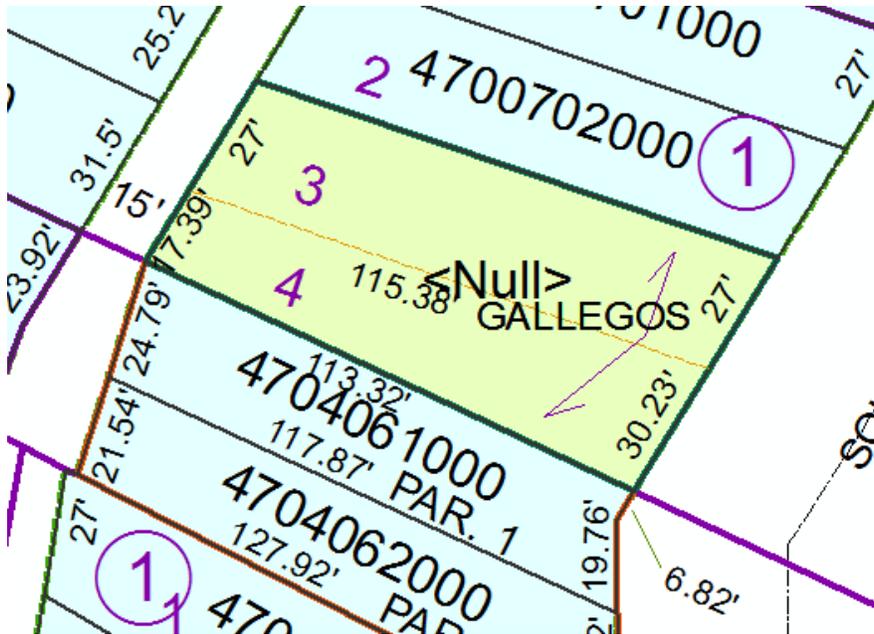
- All (547) Sections have been completed
- 1411 issues identified from phase 1
- 502 issues fixed in phase 1
- 909 Phase 2 issues carried over to phase 2

Attached: Progress Report maps phase 1 & 2, Examples of items and tasks

Examples of areas to be cleaned up.

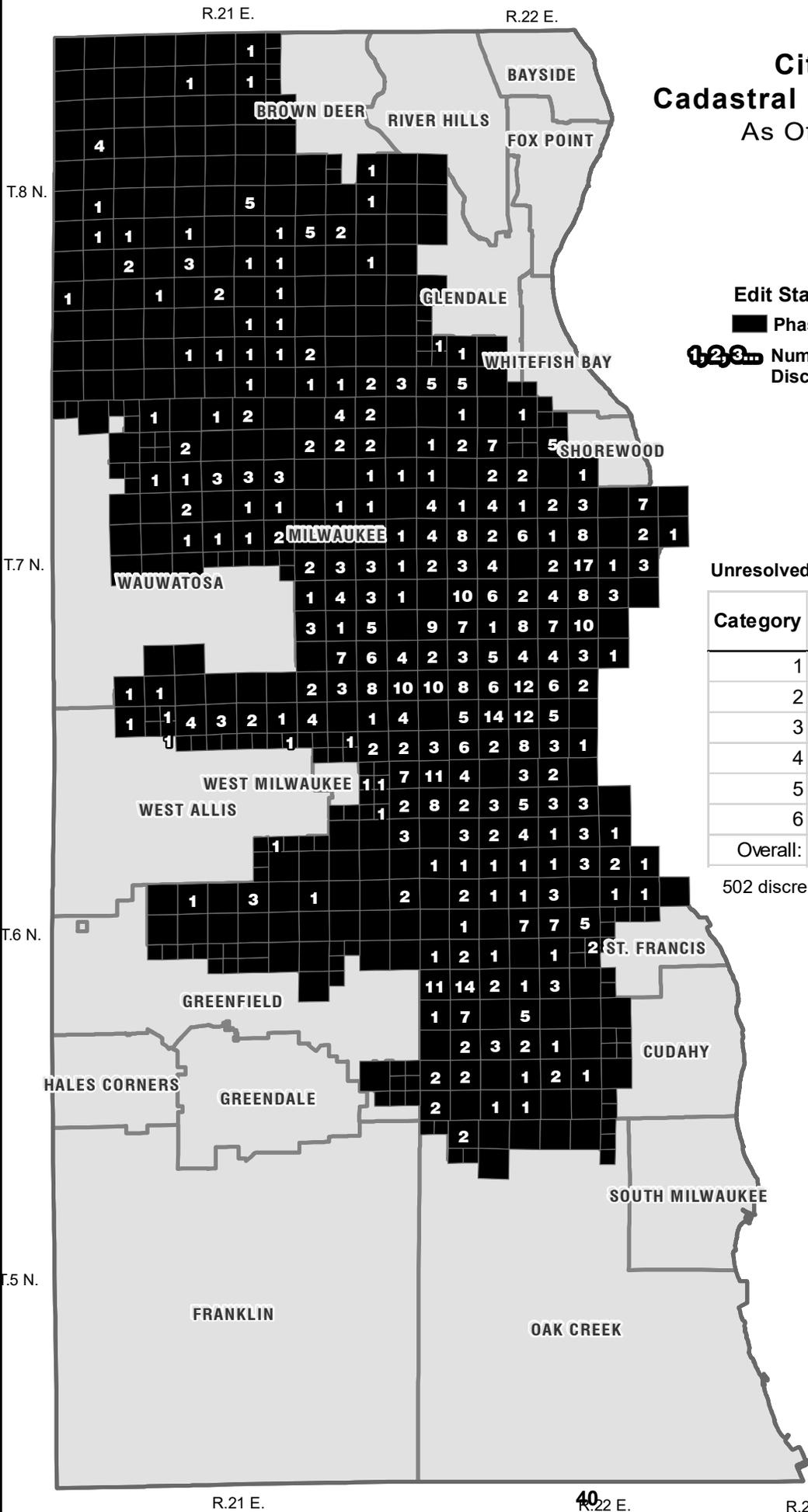


Subdivision Annotation and Cartographic tie lines



Condominiums

City of Milwaukee Cadastral Update Status: Phase II As Of November 19, 2019



Edit Status

■ Phase I Complete (100%)

1, 2, 3... Number of Remaining Unresolved Discrepancies

Unresolved Discrepancies by Category

Category	Unresolved Errors	Starting Amount	Percent Complete
1	0	94	100%
2	24	73	67%
3	267	284	6%
4	304	342	11%
5	94	103	9%
6	13	13	0%
Overall:	702	909	23%

502 discrepancies were resolved during Phase I.



**DEPARTMENT OF ADMINISTRATIVE SERVICES
MILWAUKEE COUNTY LAND INFORMATION OFFICE**

633 West Wisconsin Avenue, Suite 903, Milwaukee, WI 53203 (414) 278-3927

MEMORANDUM

TO: Land Information Council
FROM: Kevin Bruhn, Land Information Officer
DATE: December 4th, 2019
SUBJECT: Census Update – New Construction Program

BACKGROUND

The New Construction Program will help ensure that the U.S. Census Bureau's address list is as complete and accurate as possible by Census Day, April 1, 2020. The New Construction Program is the Program opportunity to submit city-style mailing addresses for new living quarters where construction began during or after March 1, 2018, and the address was not submitted to the Census Bureau as part of another geographic partnership program since March 2018. Addresses must have basic construction (closing the structure to the elements) completed by Census Day.

Participation in the New Construction Program helps to ensure an accurate population count in your community; helps the government distribute more than \$675 billion in funds annually for infrastructure, programs, and services; and helps communities plan for future needs.

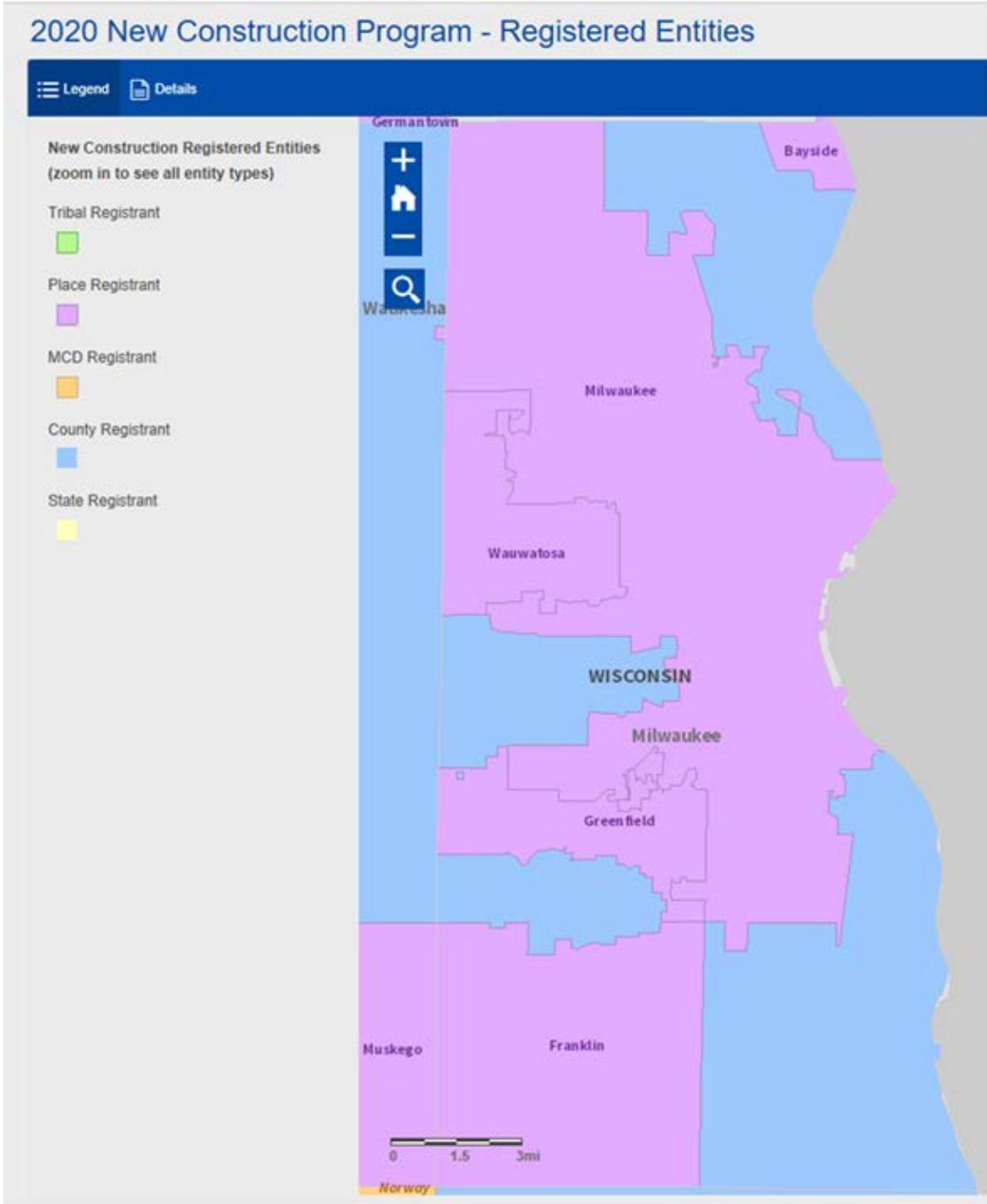
ACTIVITIES THIS PERIOD: 6/19 – 12/19

The LIO submitted a total of 913 addresses. This includes 177 addresses for the City of West Allis and 736 for the remaining municipalities that did not independently participate in the program. This project was completed within the 45 calendar days allotted from time of data delivery from Census and closeout materials will be sent out sometime in December.

More information from Census New Construction Program can be found here:

<https://www.census.gov/programs-surveys/decennial-census/about/new-construction.html>

Attached: Map of New Construction Program participating municipalities



<https://gis-portal.data.census.gov/arcgis/apps/MapTools/index.html?appid=9ecd1d333e943b3b316a2cec56e368e#>

Municipalities labeled have independently submitted addresses to the Census New Construction Program.