

**Village of Pewaukee  
Public Works and Safety Committee Meeting Agenda**

January 7, 2020 – 5:30 pm  
Village Hall  
235 Hickory Street  
Pewaukee, WI

1. Call to Order, Pledge of Allegiance and Moment of Silence
2. Approve Minutes of October 1, 2019 meeting
3. Citizen Comments
4. Old Business
  - a) Discussion and possible recommendation to the Village Board regarding draft Lake Weed Collection policy.
  - b) Discussion and recommendation to the Village Board approving a sanitary sewer lining proposal for 221 West Wisconsin Ave.
5. New Business
  - a) Discussion and action regarding final design for installation of sidewalk on West Avenue.
  - b) Discussion and possible recommendation to the Village Board regarding construction methodology and selection of a design services consultant for Kopmeier lift station reconstruction.
  - c) Presentation of results of mandated bi-annual Village wide pavement evaluations.
6. Adjournment

Note: It is possible that members and/or possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; action will not be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in the notice. Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. To request such assistance, contact the Village Clerk at 262-691-5660.

**Village of Pewaukee  
Public Works and Safety Committee Meeting Minutes  
October 1, 2019**

Meeting called to order by Yonke at 5:32 pm. Pledge of Allegiance was followed by a moment of silence.

Members present: Ed Hill, Casey Smith, Laurin Miller, Kevin Yonke, Mark Grabowski, Wayne Vaughn, Art Compton

Members absent:

Also Present: Director of Public Works Naze, Administrator Gosse, President Knutson

Agenda Item 2 – Minutes of September 3, 2019 meeting

Motion Hill to approve, second Smith. Motion passed unanimously.

Agenda Item 3 – Citizen Comments

Paul Evert, 327 Lookout Dr: New construction at lakefront is not ADA compliant; A decision on Highland Ave Ave. is taking too long.

Patty Meehan, 381 Park Ave.: Requested a variety of signs that are needed at the Highland Ave, dead end, such as no grilling, no power boats, , etc. to maintain quality of life and not have the area be a burden to the nearby residents.

Richard Benkstein, 384 Park Ave.: Indicated that too many “no” signs on Highland is a problem, there have been very few problems in the past.

John Fay, 126 Highland Ave.: Would like no signs on Highland Ave. for a year to be able to observe what happens.

Agenda Item 4 – Old Business

- a.) Discussion and action on change order request from D.F. Tomasini Contractors regarding Spring Street.

Lengthy discussion occurred between the Committee and Mike Benish, representing D.F. Tomasini, regarding how the gas installation project affected production and completion of the work and how he determined his loss of time for the gas contractor conflicts. He was questioned if this cost would this have been accounted for in the bid if known beforehand, as the plans from We Energies weren't received by the Village until after the project was bid. Committee inquired to staff if DFT was a good partner during the work with an affirmative answer. Further discussion followed on what an appropriate compensation would be and what DFT would accept. Motion Miller, second Vaughn to approve Change Order 12 for the Spring Street reconstruction project in the amount of \$12,400. 6-1 to approve, nay Hill.

Agenda Item 5 New Business

- a) Discussion and recommendations to the Village Board on possible municipal sign modifications in area of Highland Avenue and Park Avenue.

**Village of Pewaukee  
Public Works and Safety Committee Meeting Minutes  
October 1, 2019**

The Village Board sent this topic to Committee to discuss and provide a recommendation for. Discussion followed regarding the site history, what is posted in park areas, that there was interest in reduced or no signage, and comparisons with other dead ends. Motion Vaughn, second Miller to make a recommendation to the Village Board to remove the no trespassing sign and revisit this item near June 0f 2020. 6-1 to approve, Nay Hill.

- b) Discussion and possible recommendation to the Village Board regarding award of construction contract for lakefront sanitary sewer construction.

One bid was received for the installation of a new sanitary sewer to replace the existing that is aligned under the structure at 221 West Wisconsin Ave. The low alternative value was \$197,000. Director Naze recommended to Committee that the bid be rejected and other alternative proposals be pursued and accepted, namely for the options of CIPP lining or pipe bursting, options that would keep the sewer under the proposed building. This would easily satisfy the needs of the beach pavilion building until a future date when reconstruction of the street would occur and a gravity alignment could be constructed in the street, and communications ducts in the street could be possibly managed ahead of time. Motion Vaughn, second Hill to reject the bid from Globe Contractors and receive proposals for CIPP lining of the sewer. Motion approved unanimously.

- c) Discussion and recommendation to the Village Board on Resolution 2019-17 regarding application for 2020-2021 Local Road Improvement Project reimbursement for West Avenue incorporating sidewalk.

Director Naze explained that WISDOT Local Road Improvement Program reimbursement applications are due to the County November 1, 2019 for 2020-2021 biennium. It is the intent to prepare an application for the reconstruction of West Avenue. State Statutes require that projects that incorporate new pedestrian facilities and potentially using state funds, to adopt a resolution indicating that the governing body supports the pedestrian facilities. Based on the recently approved sidewalk policy, this was appropriate for a recommendation to the Village Board. Motion Vaughn, second Miller to recommend to the Village Board adoption of Resolution 2019-17 supporting the installation of sidewalks along West Avenue. Motion approved unanimously.

Agenda Item 6 – Adjournment

Motion Miller, second Vaughn to adjourn the meeting at 6:40 pm. Motion passed unanimously.

Respectfully Submitted,  
Daniel Naze, P.E.,  
Director of Public Works/Village Engineer



PUBLIC WORKS DEPARTMENT  
1000 Hickory Street  
Pewaukee, WI 53072

## Memo

To: Public Works and Safety Committee Members  
From: Dan Naze, P.E., Director of Public Works/Village Engineer  
Date: December 27, 2019  
Re: Discussion and possible recommendation to the Village Board regarding draft Lake Weed Collection policy.

Find attached a first draft of a lake weed collection policy for discussion as initially recommended during the September meeting.

Recommendation:

None



## Village of Pewaukee Lake Weed Collection Policy

### **Purpose:**

A periodic permit application is written and submitted by the Director of Public Works and granted to the Village of Pewaukee under Section 23.24, Wisconsin Statutes and Administrative Code NR 109, to conduct mechanical harvesting of aquatic plants in 57.7 acres of Pewaukee Lake, in Section 8, Township 7 North, Range 19 East, in the Village of Pewaukee, Waukesha County. This permit is historically issued for a five-year term and currently will expire on December 31, 2021.

In general, the permit indicates the Village will harvest up to 57.7 acres within the Village of Pewaukee. Specific dimensions and location of channels, and depth of cut follow the Pewaukee Lake Aquatic Plant Management Plan Update, dated May 2017. Specific plants are targeted and the depth of harvesting is calendar based and varies due to anticipated fish spawning times. No requirements within the DNR harvesting permit govern collection of lake weeds off public lakefront areas, the beach, or for riparian property owners.

This policy intends to set rules and guidelines setting expectations for riparian property owners and provide for Village staff to conduct safe, efficient, and productive management and collection of invasive weeds within the Village limits.

### **Standards for Property Owners:**

- Collection of aquatic plants from private landowners requires that all plants for pick up must be placed on the end of a pier. This placement facilitates pick up, avoids damage to private property (piers), the hull of the barge on shoreline and shallow water obstructions, and allows employees to safely transfer the plant material to the barge.
- Traversing rocky, steep, and wet shoreline areas, and wading in shallow areas while carrying pitchforks and wearing waders carries a significant liability to the Village and the possibility of injury to Village harvesting staff, who are usually seasonal employees. Village employees will not be allowed to risk their safety and personal injury to retrieve weeds placed on shorelines. Harvesters will not generally proceed closer to the shoreline than the end of piers. Plants shall be collected by the property owner and placed on the end of the pier for pick-up.
- Plants will be picked up during the week from piers ... (further define a collection schedule, e.g., once per week?), weather permitting. Plants must be free of any trash, such as cans, tree limbs, leaves, etc. Where collection off a pier can be safely made from side of a pier, a 20-foot minimum space is required between piers, boat-lifts, etc. to safely maneuver the barge to the pick-up point. If in the opinion of the harvester operator (and after discussion with the riparian owner), these conditions are not met, the Village shall refuse pick up of plant material until the conditions have been met.
- Village staff priorities for weed collection in order, are the lakefront beach and adjacent lakefront shorelines, the Laimon Park boat launch, mechanically harvesting shoreline areas parallel to

shorelines and navigation channels per the permit, and then removing collected weeds from private piers.

- Collection and harvesting will generally begin upon the arrival of seasonal employees, when available, approximately Memorial Day. Regular collection will cease with the departure of seasonal employees, generally immediately before the Labor Day weekend. Provided continuing seasonal staff or the availability of full-time employee crew, limited harvesting may occur after Labor Day during September of each year. Harvesting equipment will generally be removed from the lake annually by October 1.

DRAFT



**PUBLIC WORKS DEPARTMENT**  
1000 Hickory Street  
Pewaukee, WI 53072

## Memo

To: Public Works and Safety Committee Members  
From: Dan Naze, P.E., Director of Public Works/Village Engineer  
Date: August 28, 2019  
Re: Discussion regarding development of a lake weed collection policy

2019 has been a very heavy year for harvesting lake weeds. Substantial Village DPW resources are used to provide a high level of service that is expected, that has no defined policy. Budgeted funds for lake weed collection come from the storm water utility and general operations. From August 5 through August 27, approximately 1050 cubic yards of lake weeds have been hauled from the Village conveyor or directly loaded from the beach. In addition, so far during August, the beach has been cleaned on weekend days by the DPW on five occasions.

Weed harvesting is a DNR permitted activity requiring data collection and an annual report. Collecting riparian property weeds within piers and on shorelines is not part of the permit. Our level of service on shorelines should be consistent with area management districts and LPSD, and presently we go between piers and collect off shorelines. This effort is time consuming, requires additional boat maneuvering, and exposes employees, especially our summer help, to shoreline hazards and injuries.

There have been many claims and complaints regarding level of service this year, and in previous years when weeds have been less intense. I believe it is important the Village finally draft a policy that defines Village basic goals of operation within staffing and equipment availability, defines expectations of riparian property owners to assist, general methods of collection and limits of service, and provides for a set of reasonably achievable guidelines so staff and elected officials have a basis for responding to and educating citizens.

I have attached the current DNR harvesting permit and other additional information to get discussion started.

## **Okauchee Lake MD Barging Policy**

It is the OLMD policy regarding collection of aquatic plants from landowners that all plants for pick up MUST be placed on the end of the pier. This placement facilitates pick up, avoids damage to the hull of the barge on shoreline obstructions (i.e., rocks) and allows the employees to safely transfer the plant material to the barge. Recently some landowners placed plants to be picked up on rocks at the shoreline to avoid discoloration of their pier. OLMD employees will not be allowed to risk their safety and personal injury to traverse rocky shoreline areas while carrying pitchforks to retrieve the weeds. It is imperative that the plants be placed on the end of the pier for pick-up. Plants will be picked up during the week from piers in the sections being cut on a particular day and every Monday and Friday, weather permitting. Please check the OLMD website home page ([www.olmd.org](http://www.olmd.org)) frequently to review the updated cutting schedule. Plants must be free of any trash, such as cans, tree limbs, leaves, etc., as the farmers who receive the plant material will not accept anything except plants. In the rare event plants must be on the shoreline, they must be in one pile in a location allowing the employees to easily transfer the plants directly to the barge. Please note that adequate space is required between piers, boat-lifts, etc. to safely maneuver the barge to the pick-up point (20 feet minimum). If, in the opinion of the foreman (and after discussion with the riparian owner), these conditions are not met, the Commission's policy is to refuse pick up of plant material until the above conditions have been met. If you have any questions, please call 262-966-0286.

## **Delavan Lake Sanitary District**

Frequently Asked Questions

When are the pier pick up dates?

**SHORELINE PICK UP FOR 2019**

DLSD will again pick up aquatic plants left at the end of piers. Property owners are required to call 728-4100 before the scheduled pick up dates and request a pick up. Requests may be left in the DLSD general voicemail box. Please leave your name, address and pier number. Pick up of only aquatic plant material will take place on the dates listed below starting Monday June 24th. Do not include trash, garbage or any other debris in the pile left at the end of your pier. Our weed harvesting crews will not pick up piles which contain any materials other than aquatic plants. **\*\*\*We limit to 10 minutes per pier\*\*\***

Pick up for the Main Lake will be on Mondays starting at 6:00 am.

Pick up for the Inlet and Outlet will be on Tuesdays starting at 6:00 am.

Pick up dates:

Mondays - June 24, July 8 & 22, August 5 & 19

Tuesdays - June 25, July 9 & 23, August 6 & 20

(all dates are weather permitting)

What qualifies as aquatic plant material?

Aquatic plant material is defined as plants that have adapted to living permanently saturated in water. This excludes terrestrial plants, which are those that grow on, in, or from land.

When does the Mechanical Harvesting start?

Our plans for mechanical harvesting remain much the same as past years. We intend to launch our harvesting equipment the week of May 20th and begin the initial harvesting of plants in the access channels at that time. After June 15th we will harvest all areas of the lake as conditions warrant.

(all dates are weather permitting)





November 19, 2019

Heidi Bunk  
Lakes Biologist  
WDNR  
141 Barstow Street, Room 180, Waukesha, WI 53188

RE: 2019 Lake Weed Harvesting Report, Village of Pewaukee

The Village aquatic plant management operation includes mechanical harvesting of Eurasian water milfoil and curly leaf pondweed and shoreline pick-up of all accumulated vegetation. Shoreline pick-up operations are conducted when needed during those times when no ice is on the lake for the Lakefront Park area, and included all shorelines within the Village regularly from May 22 until August 24<sup>th</sup>, and periodically until September 27<sup>th</sup>. The mechanical harvesting operation was performed regularly during the same period for primarily Eurasian Water Milfoil and Curly Leaf Pond Weed growth. Weed growth in Pewaukee Lake began somewhat light presumably due to water conditions, but became very heavy during July. The Village harvested throughout the permitted area including regularly collecting large floating masses throughout the Village portion of the lake. On numerous occasions during the summer Village FTE staff removed heavy weed accumulations from the beach on holidays and weekends. From April through October the Village removed a total of approximately 2400 cubic yards of weeds from the lake from our launch site and direct from the beach, which includes weeds collected by Lake Pewaukee Sanitary District off our conveyor. Before August 6<sup>th</sup>, weeds were transported to Certified Products in New Berlin for composting, however following that date when 100-200 cubic yards a week were collected the Village used LPSD's much larger truck, and weeds were brought to the LPSD dump site off Jungbluth Road where they remain. Village equipment and staff spent two days managing weed piles at the LPSD site. Use of full time Village employees dramatically increased during 2019.

Estimated overall hourly operating costs of the mechanical harvesters and conveyor, hauling trucks, and other equipment using operating costs from the WISDOT Highway Maintenance manual, where available, was as follows during 2019. Village expenses were approximately:

- \$41,188 Labor for harvester operation, lakefront collection, and administration
- \$21,559 in harvester equipment operating incl. harvester fuel cost of \$1076 and repairs of \$3,602
- \$10,722 in dump truck/pick-up operating costs with repairs of \$1,430
- \$800 in Disposal costs
- \$2,942 in end loader operations
- \$77,211 Total.

The use of the LPSD truck and dump site for two months significantly reduced Village hauling and disposal expenses.

Harvester operating staff was instructed in permit details, restrictions, and identification of plant types at the start of the season. A laminated color copy of the permit was kept on board each boat. I am not aware of any permit violations, and no changes are proposed for 2020.

If you have any questions regarding this report, contact me at 262-691-5694.

Sincerely,

A handwritten signature in black ink, appearing to read "Dan Naze", written over a horizontal line.

Daniel J. Naze, P.E.  
Director of Public Works/Village Engineer



PUBLIC WORKS DEPARTMENT  
1000 Hickory Street  
Pewaukee, WI 53072

To: Public Works and Safety Committee  
From: Dan Naze, P.E., Director of Public Works/Village Engineer  
Date: January 2, 2020  
Re: Discussion and possible recommendation to the Village Board regarding awarded of sewer lining agreement for sanitary sewer under 221 West Wisconsin Ave.

Following the October meeting I requested proposals from vendors to line the sanitary sewer at the subject address.

I contacted four different contractors, several multiple times, finding it difficult to receive two proposals. The two received are:

Visu-Sewer, Pewaukee, WI:	\$14,375.00
Northern Pipe, Inc, Green Bay, WI:	\$13,260.00

Northern Pipe is the contractor that has conducted our outside services sewer jetting and televising the last two years.

Recommendation:

Provide recommendation to Village Board to approve an Agreement with Northern Pipe, Green Bay, to install a Cured in Place Liner in the sanitary sewer underlying 221 West Wisconsin Avenue from MH 081-037 to MH 092-056 for \$13,260.00.





PUBLIC WORKS DEPARTMENT  
1000 Hickory Street  
Pewaukee, WI 53072

To: Public Works and Safety Committee  
From: Dan Naze, P.E., Director of Public Works/Village Engineer  
Date: September 25, 2019  
Re: Discussion and possible recommendation to the Village Board regarding awarded of construction contract for lakefront sanitary sewer construction

The attached memo describes the origin of the design and bid of the subject project.

One bid was submitted September 25, from Globe Contractors. Three Lump Sum alternatives were requested in the bid documents:

Jack and bore with casing pipe:	\$217,000
Directionally drill:	\$197,000
Open Cut.	\$219,000

This project was not incorporated in a previous 5 year CIP. A very early figure of \$55,000 was estimated this year based on the expectation of an open cut installation in the road. Unfortunately, two ATT ducts that were potholed per our request during design, and a large underground vault in the roadway make that method impossible unless those utilities were relocated, a lengthy process even if technically feasible. We performed a soil boring and found fill with saturated silt and sand soils below five feet. From a contractor point of view, this is high risk small project.

Recommendation:

Consider rejecting the sole bid for the 2019 lakefront sanitary sewer installation. Assess other alternatives such as retaining the approximately 130 foot long existing main under the proposed redevelopment and rehabilitating by Cured In Place Pipe (CIPP) lining or pipe bursting methods with new High Density Polyethylene Pipe (HDPE) prior to building construction. CIPP is likely around \$50 per foot, Pipe bursting approximately \$100-150 per foot.



PUBLIC WORKS DEPARTMENT  
1000 Hickory Street  
Pewaukee, WI 53072

## Memo

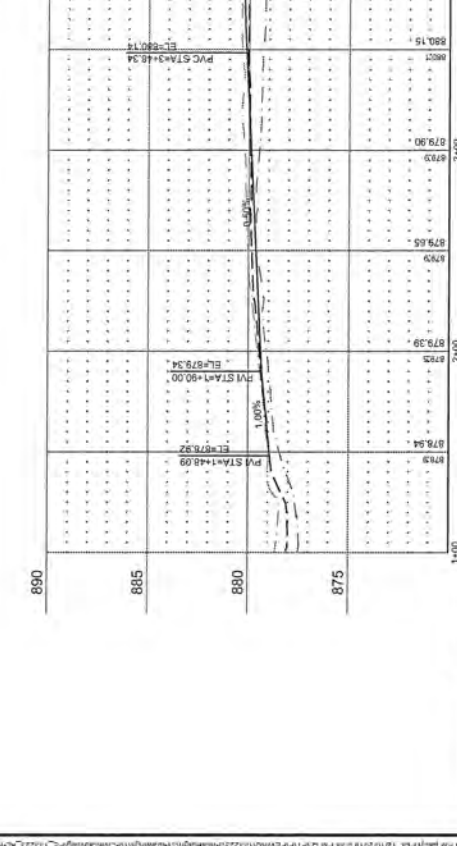
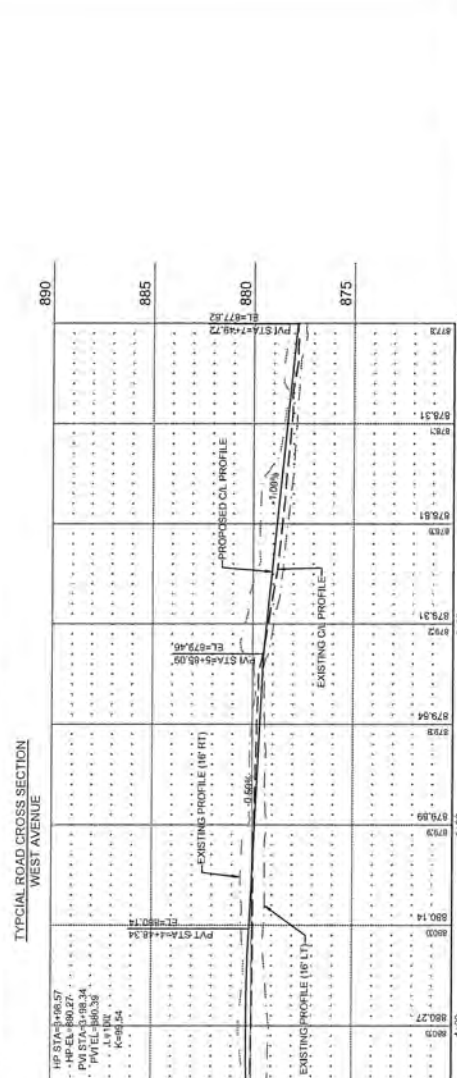
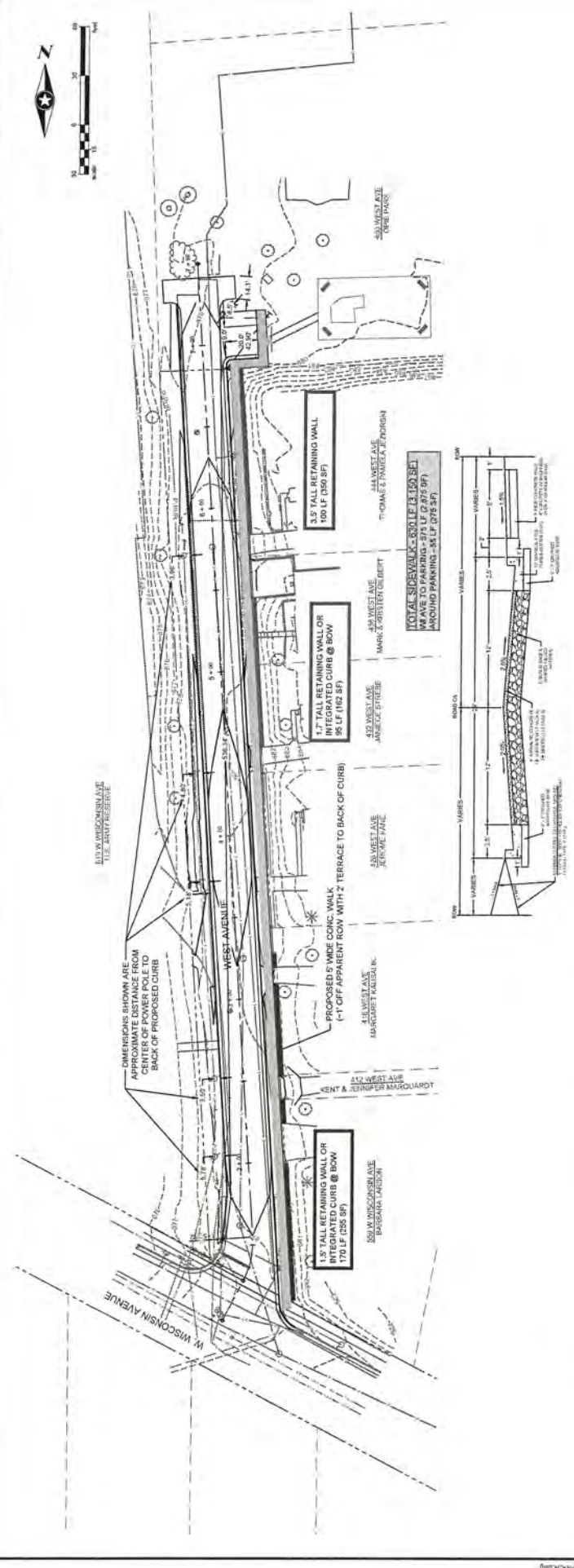
To: Public Works and Safety Committee Members  
From: Dan Naze, P.E., Director of Public Works/Village Engineer  
Date: December 27, 2019  
Re: Discussion and direction regarding preliminary design for installation of sidewalk on West Avenue

The reconstruction of West Avenue was proposed with sidewalk along the east side of the street, which is the side of Opie Park. Plans have been prepared with and without walks. The proposed plan incorporating walks indicates some significant constructability issues; These primarily relate to the topography of the exiting lots and the space needed to fit the sidewalk. At numerous locations for several hundred feet, the installation of walk will require one of two options; grading easements acquired from property owners to grade into yards to reduce the severity of slope, or retaining walls that are approximately one to three feet high. We have already shifted the street to the west by one foot, and narrowed it by two feet from the originally proposed width to fit the sidewalk better. Approximately 800 square feet of wall would be required at an estimated cost of \$10,000. The estimated cost of the sidewalk is approximately \$37,000.

Placing the walk on the west side of the street would be difficult and costly due to falling topography and utility poles in the right of way.

I am asking for direction on the inclusion of sidewalks based on the sidewalk policy so we can complete the plans and bid documents immediately.

Recommendation:



DRAWN BY: XXX	FILE NO: PFWA15223	###
DESIGNED BY: XXX	DATE: XXXXXXXX	OF 14
CHECKED BY: XXX	PROPOSED ROAD PROFILE	
DESIGN TEAM	WEST AVENUE 2020 ROAD RECONSTRUCTION VILLAGE OF PEWAUKEE, WI	
NO. BY DATE		
REVISIONS		



## Village of Pewaukee Street Reconstruction Sidewalk Policy

### **Purpose:**

It is not a stated goal of this policy to have sidewalks installed on all Village streets being newly constructed or reconstructed. The need for sidewalk installation shall be determined based upon traffic volume, public safety and welfare, immediate area population density, connectivity to existing sidewalks of walkable destinations, and installation feasibility. If topographic, right-of-way, or other physical restrictions do not allow compliant construction of sidewalks, The Public Works and Safety Committee may provide a recommendation that sidewalks not be installed as part of a reconstruction. The professional opinions, assessments, and evaluations of the Director of Public Works and Village Police department will be requested.

### **Standards:**

All sidewalks, curb ramps, and multi-purpose paths within the Village of Pewaukee right-of-way or maintained by the Village shall comply with the most current Americans with Disabilities Act (ADA) standards. Those standards shall include all accessibility guidelines, standards, regulations, statutes, requirements, and standard detail drawings of the Village of Pewaukee, the Wisconsin Department of Transportation Facilities Development Manual (FDM), U.S. Access Board, and any other division of the United States Government.

Sidewalk curb ramps on all streets and intersections where pavement is altered for rehabilitation or modernization improvements and meeting the alteration definition, shall require compliant improvements per ADA Title II and the Constructability section, below. Most pavement strategies under perpetuation improvements will meet the alteration definition.

### **Constructability:**

Sidewalks shall be constructed of concrete at a minimum width of four feet, on urbanized (curb and gutter) streets, with the outside edge or back of walk adjacent to the right-of-way line, except where investigation by the Director of Public Works determines that:

1. A number of healthy trees would be injured or require removal.
2. Sidewalk alignment within a block would be different from existing walks within a contiguous area.
3. Topographic problems require re-alignment.

All sidewalk curb ramps shall be installed with cast iron warning fields, meeting slope, approach angles, and other requirements in accordance with the options indicated in the Facilities Development Manual and FDM Standard Detail Drawings.



PUBLIC WORKS DEPARTMENT  
1000 Hickory Street  
Pewaukee, WI 53072

## Memo

To: Public Works and Safety Committee Members  
From: Dan Naze, P.E., Director of Public Works/Village Engineer  
Date: January 3, 2020  
Re: Discussion and possible recommendation to the Village Board regarding construction methodology and selection of a design services consultant for Kopmeier lift station reconstruction.

I developed a request for proposals for engineering services related to the reconstruction of the Kopmeier lift station, located adjacent to 512 Kopmeier Drive. I have attached a copy of the first page of the RFP for background information, and location maps. In summary, the lift station is located within Canadian Pacific right-of-way (ROW), Kopmeier Drive is platted as a private ingress/egress easement, facility equipment is obsolete and aged, and legally conforming personnel access into the permit required confined space for operation and maintenance activities is unresolvable. The RFP content and estimated costs incorporated in the Capital Improvement Plan partially evolved from an evaluation of the lift station conducted during 2016 by consultant Reukert Mielke and their generated report. The 2016 report recommended an alternative using a new above grade structure and reusing a portion of the existing below grade structure at an estimated 2016 cost of \$382,000. For 2019/2020 I budgeted \$450,000 for engineering and construction costs.

I requested proposals from four firms and received three, from Ruckert Mielke, SEH, Inc., and raSmith. I reviewed them first for content, qualifications, and approach to the project, then opened their cost proposals. One firm researched an alternative solution that did not conform to the 2016 report, but deserves merit and further discussion.

The two firms providing a proposal based on the 2016 report provided the following costs:

Ruekert Mielke:	Design/bid:	\$27,619 (201 hours)
	Construction:	\$24,870 (200 hours)
	Total:	\$52,459
SEH:	Design/bid:	\$30,166 (182 hours)
	Construction:	\$44,085 (402 hours)
	Total:	\$74,251

raSmith approached the project looking at another possible siting location, that is, a Village owned property north of the railroad tracks currently zoned residential. The methodology has far greater design and construction costs due to added infrastructure and a completely new wet well excavation that would be approximately 25 feet deep off Isle Court.

raSmith	Design/bid:	\$71,697 (576 hours)
	Construction:	\$61,714 (465 hours)
	Total:	\$133,411

The primary benefit would of course be the removal of perpetual Village infrastructure from railroad right-of-way where no known or apparent easement exists, which removes the lift station from railroad activity dangers and safety standards, places the building away from densely situated lakefront properties, and provides access directly from West Wisconsin Avenue. Because Kopmeier Drive is not ROW but an easement, and nearby private structures are situated close to the street, options locating the facility south of the street appear non-existent.

This alternative clearly would create increased construction costs due to the installation of a new gravity casing and carrier pipe under the railroad, the excavation of a new wet well structure up hill from the current site, new manholes, the cost of bringing new electrical service, etc. I requested that raSmith staff provide me with an estimate of what they believed the relocated facility would cost in order to properly gauge the difference from the other proposals. In their opinion, the estimated construction cost for the relocated facility would be \$917,000, including a 10% contingency, with a -15%/+20% accuracy.

These benefits operationally while significant are difficult at best to quantify monetarily. I can't reasonably provide a dollar "savings" of the relocation over an expected 50-year or more useful lift station life. I don't vision a life cycle cost comparison of the two alternatives that will converge. The benefits are primarily related to the Village being in complete control of the location where its facility is located. The Ruekert Mielke proposal did specifically indicate included consultant effort to engage the railroad regarding the project.

#### Recommendation:

Provide opinion and direction regarding a Kopmeier lift station design services consultant taking into account the alternative location proposal. If the desire is to maintain the current station location, I suggest a recommendation to the Village Board to approve a design through bidding services professional services agreement (PSA) with Ruekert Mielke, Waukesha, for \$27,619, with the expectation a PSA amendment will be drafted for construction services for no more than \$24,870 at a later date.





October 31, 2019

Name  
Firm  
Street  
City

Re: Request for Proposal (RFP) Kopmeier Lift Station Replacement

The Village of Pewaukee is seeking a consultant to provide engineering services for the development, design, bidding, and construction management for the replacement of the Kopmeier Wastewater Lift Station and inspect the existing force main serving the station. To facilitate the Village's selection of a consultant, we are requesting that interested parties submit their qualifications to design, prepare plans and specifications and provide construction engineering services for the project.

### **Background**

The Kopmeier Lift Station is owned and operated by the Village of Pewaukee, and is located near the east end of Kopmeier Drive. Kopmeier Drive is platted as an ingress/egress private right-of-way, that has been maintained by the Village for an unknown period of time. The lift station is located within railroad right-of-way with a force main directed north under the tracks approximately 500', outfalling to a manhole in West Wisconsin Avenue. The existing concrete slab is approximately 28 feet from the south rail. Staff does not currently possess documentation of an easement or ownership of a parcel overlying the station location. A 1923 Plat map is attached.

The lift station serves approximately 20 properties in the Village. The City of Pewaukee owns a lift station at the west end of Kopmeier that discharges to gravity sewer near the corporate boundary, discharging to the Village. The majority of current flow and anticipated future additional flow is generated in the City.

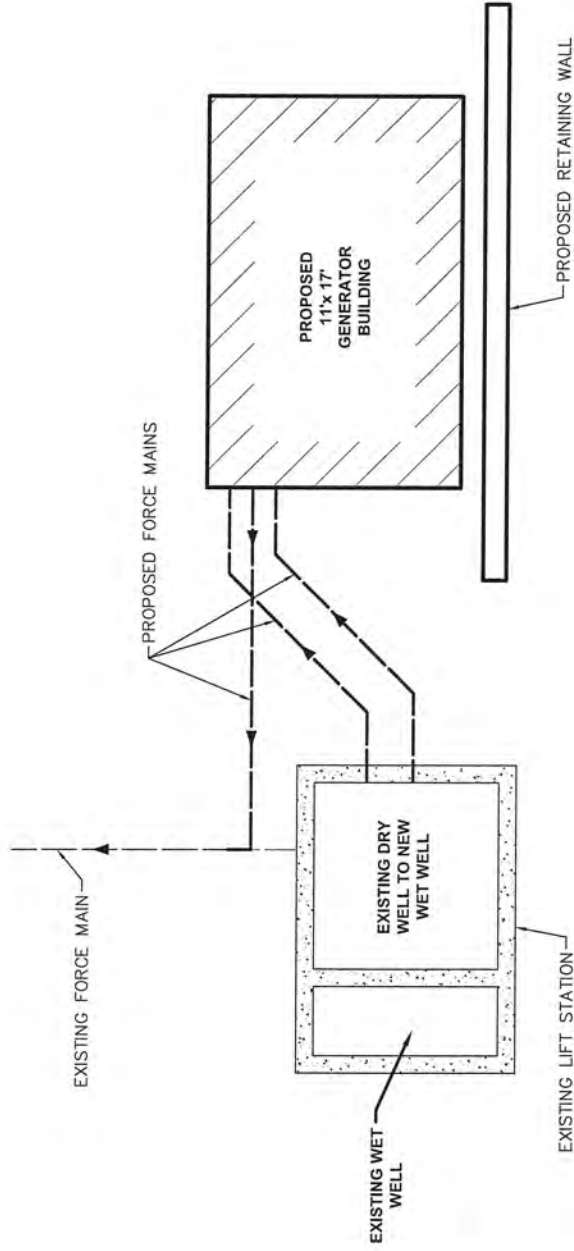
During 2016, the Village commissioned an evaluation of the current station by Ruekert-Mielke which investigated several alternatives and provided a recommendation, that current staff substantially agrees with. That report is attached. The current station is an outdated and extremely poorly configured permit required confined space that does not have provisions for an entrant to be harnessed, and the entrant cannot stay within sight of the attendant. The diesel generator will be replaced with a natural gas fueled unit.

The Village has requested updated future tributary data from the City and has not received it as of the date of this request. The Village gravity sewer tributary to the lift station was televised during 2018 and as part of this effort, the consultant will review the reports, and evaluate and recommend improvements to that main to reduce inflow and infiltration, as part of this project if appropriate. The main is a combination of VCP and 1976 PVC, however many lateral connections to the PVC were made by hammer tap. An evaluation of the force main will be conducted when appropriate during lift station construction, with recommendations for rehabilitation, if appropriate, included as part of the consultant's overall scope of work.

March 2016 R/M Evaluation

RM811PB

Mar 10, 2016 1:33pm  
C:\CS\8034\_P\enoukera Village\10010\dwg\100\Z-Conceptual Site Plan.dwg Conceptual Site Plan  
IMAGES:  
XREFS:



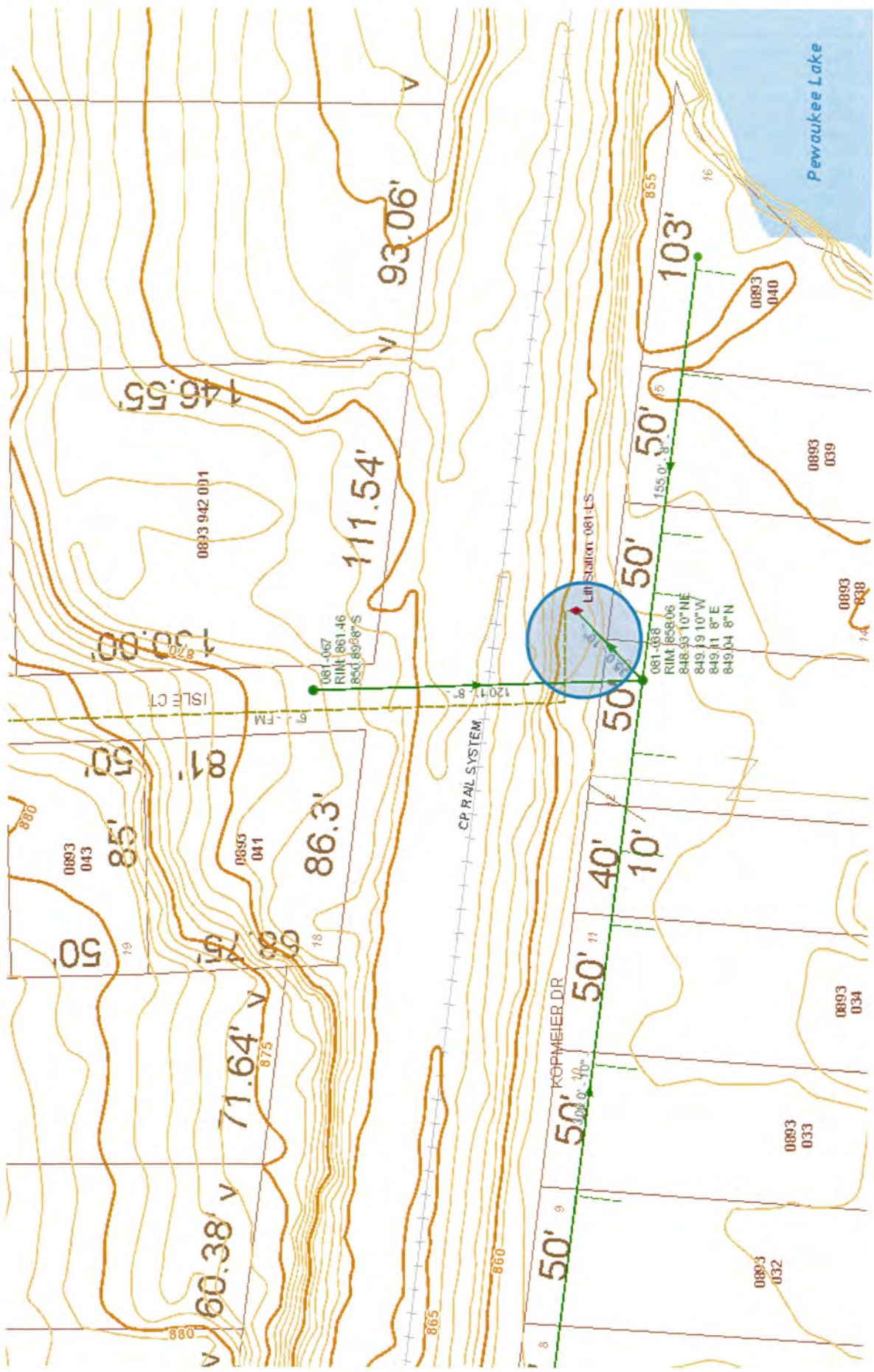
KOPMEIER DRIVE



# CONCEPTUAL SITE PLAN

Z-CONCEPTUAL SITE PLAN 4

NO SCALE



☆ Parcel: PWV 0893041

[Tax Listing](#)

**Property Address:**

NOT ASSIGNED

**Owner Name & Address:**

VILLAGE OF PEWAUKEE

235 HICKORY ST

PEWAUKEE WI 53072

[View Additional Details](#) | [Run a Report](#) | [Add to Results](#)





**PUBLIC WORKS DEPARTMENT  
1000 Hickory Street  
Pewaukee, WI 53072**

## Memo

To: Public Works and Safety Committee Members  
From: Dan Naze, P.E., Director of Public Works/Village Engineer  
Date: December 27, 2019  
Re: Review of 2019 Pavement Ratings and WISDOT submittal.

Biennially, municipalities are required by Section 86.302, Wisconsin Statutes, to assess local road pavements using a standardized rating system, and submit results by December 15th. Every road segment, (337 for 2019), is physically evaluated using a 1-10 system called PASER. (Pavement Surface Evaluation and Rating.) The results are entered into and submitted using a web based GIS system called WISLR. (Wisconsin Information System for Local Roads.)

Attached is an abbreviated form of worksheet showing the results of 2019 evaluations ordered from lowest to highest. Shaded sections are incorporated in the CIP plan.

Recommendation:

None, informational only.

ON_ROAD_NAME	AT_RTE_NM	TO_RTE_NM	RWCRT_MILG	WISLR_SFRTG_VAL	RDWY_RTG_YR	TRLNS_SURF_YR	RTE_RWCRT_MILG	WISLR_CERT_YR1
HIGH ST	Cheshire Ln	Termini	634		2 2019	1973		0.59 2020
OLE DAIRY DR	Sussex Rd	Termini	406		2 2019	1972		0.27 2020
SUSSEX ST	Maiden Ln	Termini	1848		2 2019	1964		0.5 2020
WEST ST	Wisconsin Ave W	Termini	739		2 2019	1983		0.14 2020
BRIAR CT	Termini	Willow Grove Dr	370		3 2019	1980		0.07 2020
LAKE ST	Park Ave	Termini	106		3 2019	1980		0.51 2020
OAKTON CT	Clark St	Termini	297		3 2019	1961		0.08 2020
ORCHARD AVE	Termini	Lake St	581		3 2019	1980		0.11 2020
STONE CT	Termini	Willow Grove Dr	528		3 2019	1980		0.1 2020
WILLOW GROVE DR	Forest Grove Dr	Timber Ridge	370		3 2019	1980		0.68 2020
WILLOW GROVE DR	Timber Ridge	Briar Ct	317		3 2019	1980		0.68 2020
WILLOW GROVE DR	Briar Ct	Stone Ct	370		3 2019	1980		0.68 2020
WILLOW GROVE DR	Stone Ct	Meadowcreek Dr	475		3 2019	1980		0.68 2020
CONCORD RD	Meadowcreek Dr	Termini	1267		4 2019	1979		0.24 2020
HICKORY ST	Forest Grove Dr	Termini	1584		4 2019	1985		1.53 2020
LEXINGTON CT	Meadowcreek Dr	Termini	475		4 2019	1979		0.09 2020
LOOKOUT DR	School St	Lake St	422		4 2019	2004		0.53 2020
MEADOWCREEK CT	Meadowcreek Dr	Termini	317		4 2019	1992		0.06 2020
MEADOWCREEK DR	Sunnyridge Rd	Meadowcreek Ct	370		4 2019	1978		0.54 2020
MEADOWCREEK DR	Meadowcreek Ct	Concord Rd	1003		4 2019	1978		0.54 2020
MEADOWCREEK DR	Concord Rd	Lexington Ct	158		4 2019	1978		0.54 2020
MEADOWCREEK DR	Lexington Ct	Willow Grove Dr	634		4 2019	1978		0.54 2020
PARK AVE	Highland Ave	Maple St	950		4 2019	2004		0.64 2020
PROSPECT AVE	Main St	Wisconsin Ave E	370		4 2019	1997		0.56 2020
RICHMOND DR	Lake St	1st St	370		4 2019	1982		0.31 2020
RICHMOND DR	1st St	2nd St	422		4 2019	1982		0.31 2020
RICHMOND DR	2nd St	3rd St	528		4 2019	1982		0.31 2020
RICHMOND DR	3rd St	Main St	317		4 2019	1982		0.31 2020
SAVOY CT	Termini	Oakton Ave	264		4 2019	2003		0.05 2020
TIMBER RIDGE	Willow Grove Dr	Willow Grove Dr	1584		4 2019	1980		0.3 2020
WILLOW GROVE DR	Meadowcreek Dr	Timber Ridge	528		4 2019	1980		0.68 2020
WILLOW GROVE DR	Timber Ridge	Sunnyridge Rd	475		4 2019	1980		0.68 2020
WISCONSIN AVE E	Prospect Ave	Clark St	370		4 2019	1985		1.03 2020
WISCONSIN AVE E	Clark St	George St	845		4 2019	1985		1.03 2020
WISCONSIN AVE E	George St	Marshall St	317		4 2019	1985		1.03 2020
WISCONSIN AVE E	Marshall St	Maryknoll Dr	422		4 2019	1985		1.03 2020
CAPITOL DR	Ormsby St	Sussex St	317		5 2019	2003		0.78 2020
CAPITOL DR	Sussex St	Dynex Dr	370		5 2019	2003		0.78 2020
CHESHIRE CT	Cheshire Ln	Termini	264		5 2019	1987		0.05 2020
FOREST GROVE DR	Willow Grove Dr	Hickory St	1109		5 2019	1999		0.56 2020
FOXTAIL DR	Termini	Quinlan Dr	370		5 2019	1990		0.07 2020
GEORGE ST	Wisconsin Ave E	Main St	475		5 2019	2000		0.09 2020
GLACIER RD	Pawling Rd	Kopmeier Rd	53		5 2019	2001		0.26 2020
GLACIER RD	Pawling Rd	Kopmeier Rd	1056		5 2019	2001		0.26 2020
GLACIER RD	Kopmeier Rd	Wisconsin Ave W	264		5 2019	2003		0.26 2020
HICKORY ST	Termini	Clark St	370		5 2019	1991		1.53 2020
HIGH ST	Wisconsin Ave W	Capitol Dr	106		5 2019	1997		0.59 2020
HIGH ST	Capitol Dr	Evergreen Ln	686		5 2019	1997		0.59 2020
HIGH ST	Park Hill Dr	Cheshire Ln	950		5 2019	1972		0.59 2020
HIGHLAND AVE	Termini	Park Ave	158		5 2019	2006		0.16 2020
KOPMEIER DR	Kopmeier Dr	Kopmeier Rd	264		5 2019	2000		0.27 2020

KOPMEIER DR	Kopmeier Rd	Termini	1162	5 2019	2000	0.27 2020
KOPMEIER RD	Kopmeier Dr	Glacier Rd	634	5 2019	2003	0.12 2020
LAKE PARK CT	Lake Park Dr	Termini	370	5 2019	1994	0.07 2020
LAKE PARK DR	Carlee Ann Ln	Meadowlark Ct	264	5 2019	1994	0.45 2020
LINDSAY RD	Charter Oak Dr	Crossover STH 164	318	5 2019	2003	0.57 2020
LINDSAY RD	Charter Oak Dr	Crossover STH 164	950	5 2019	2006	0.57 2020
LINDSAY RD	Charter Oak Dr	Crossover STH 164	158	5 2019	2006	0.57 2020
LOOKOUT DR	Lake St	1st St	370	5 2019	2006	0.53 2020
LOOKOUT DR	1st St	2nd St	422	5 2019	2006	0.53 2020
MAIN ST	Park Ave	Prospect Ave	792	5 2019	1985	0.71 2020
MAIN ST	George St	Marshall St	370	5 2019	1985	0.71 2020
MAIN ST	Maryknoll St	Maryknoll Dr	422	5 2019	1985	0.71 2020
MAIN ST	Maryknoll Dr	CTH T	845	5 2019	1985	0.71 2020
MARYKNOLL DR	Main St	Brandt Ct	475	5 2019	2001	0.11 2020
NORTH SHORE CT	Chesterwood Ln	Termini	106	5 2019	1994	0.02 2020
NORTH SHORE DR	Charter Oak Dr	Carlee Ann Ln	264	5 2019	1993	0.32 2020
OAKTON AVE	Park Ave	Savoy Ct	106	5 2019	1999	0.33 2020
PARK AVE	Oakton Ave	Main St	106	5 2019	1998	0.64 2020
PARK AVE	Main St	Lake St	528	5 2019	2000	0.64 2020
PARK AVE	Lake St	Highland Ave	1584	5 2019	2006	0.64 2020
PARK AVE	Lake St	Termini	211	5 2019	2004	0.64 2020
PARK AVE	Maple St	Partridge Ct	264	5 2019	1973	0.54 2020
PARK HILL DR	High St	Partridge Ct	317	5 2019	1973	0.54 2020
PARK HILL DR	Partridge Ct	Meadowside Ct	211	5 2019	1973	0.54 2020
PARK HILL DR	Meadowside Ct	Oaklawn Ct	211	5 2019	1973	0.54 2020
PARK HILL DR	Oaklawn Ct	Parkview Ct	317	5 2019	1973	0.54 2020
PARK HILL DR	Parkview Ct	Ridge Ct	264	5 2019	1973	0.54 2020
PARK HILL DR	Ridge Ct	Lakewood Ct	211	5 2019	1973	0.54 2020
PARTIDGE CT	Park Hill Dr	Termini	739	5 2019	1973	0.14 2020
PROSPECT AVE	Pirate Pass	Spring St	317	5 2019	1997	0.56 2020
PROSPECT AVE	Spring St	Highland Ave	422	5 2019	1997	0.56 2020
PROSPECT AVE	Highland Ave	School St	634	5 2019	1997	0.56 2020
PROSPECT AVE	School St	Lake St	475	5 2019	1997	0.56 2020
PROSPECT AVE	School St	Lake St	370	5 2019	1997	0.56 2020
PROSPECT AVE	Lake St	Lake St	53	5 2019	1997	0.56 2020
PROSPECT AVE	Lake St	Main St	264	5 2019	1997	0.56 2020
QUINLAN DR	CTH KF	Foxtail Dr	528	5 2019	1990	0.96 2020
QUINLAN DR	Foxtail Dr	Quinlan Ct	370	5 2019	1990	0.96 2020
QUINLAN DR	Quinlan Ct	Cheshire Ln	264	5 2019	1990	0.96 2020
QUINLAN DR	Capital Dr	Termini	898	5 2019	1986	0.17 2020
SIMMONS AVE	Willow Grove Dr	Meadowcreek Dr	1373	5 2019	1977	0.77 2020
SUNNYRIDGE RD	Meadowcreek Dr	Termini	1426	5 2019	1992	0.77 2020
TURNBERRY CT	Chesterwood Ln	Termini	211	5 2019	1994	0.04 2020
WISCONSIN AVE E	Maryknoll Dr	Morris St	1162	5 2019	2001	1.03 2020
WISCONSIN AVE E	Sunset Dr	CTH M	581	5 2019	2001	1.03 2020
WISCONSIN AVE W	CTH JJ	CTH KF	427	5 2019	2003	0.91 2020
WISCONSIN AVE W	CTH JJ	CTH KF	206	5 2019	2003	0.91 2020
WISCONSIN AVE W	CTH KF	Glacier Rd	106	5 2019	2003	0.91 2020
WISCONSIN AVE W	Glacier Rd	West St	422	5 2019	2002	0.91 2020
WISCONSIN AVE W	West St	Isle Ct	475	5 2019	2002	0.91 2020
WISCONSIN AVE W	Isle Ct	Quinlan Dr	264	5 2019	2002	0.91 2020
WISCONSIN AVE W	Quinlan Dr	Evergreen Ln	1003	5 2019	2002	0.91 2020
WISCONSIN AVE W	Evergreen Ln	High St	634	5 2019	2002	0.91 2020

ZACHARY CT	Hillwood Blvd	Termini	211	5	2019	1995	0.04	2020
00002ND ST	Lookout Dr	Richmond Dr	475	6	2019	2007	0.09	2020
ALEX CT	Westfield Way (2)	Termini	211	6	2019	1995	0.1	2020
ALEX CT	Westfield Way (2)	Termini	317	6	2019	1997	0.1	2020
ARROW WOOD CT	Laureate Dr	Termini	211	6	2019	1993	0.04	2020
BARRINGTON CT	Turnberry Dr	Termini	264	6	2019	1994	0.05	2020
BENDING BRAE CT	Bending Brae Dr	Termini	211	6	2019	1993	0.04	2020
BENDING BRAE DR	Unknown	Bending Brae Ct	845	6	2019	1994	0.16	2020
BLUESTEM CT	Cheviot Dr	Termini	239	6	2019	2011	0.06	2020
CAPITOL DR	Caldwell St	Oakton Ave	317	6	2019	2003	0.78	2020
CAPITOL DR	Oakton Ave	Ormsby St	106	6	2019	2003	0.78	2020
CAPITOL DR	Dynex Dr	Connector STH 190 to Capitol Dr (1)	429	6	2019	2014	0.78	2020
CAPITOL DR	Connector STH 190 to Capitol	STH 190	205	6	2019	2014	0.78	2020
CARLEE ANN LN	North Shore Dr	Kerry Glen Ct	422	6	2019	1994	0.13	2020
CARLEE ANN LN	Kerry Glen Ct	Lake Park Dr	264	6	2019	1994	0.49	2020
CECELIA DR (01)	Cecelia Dr	Westfield Way (2)	739	6	2019	1974	0.13	2020
CECELIA DR (01)	Westfield Way (2)	George Towne Dr	1213	6	2019	1998	0.49	2020
CECELIA DR (01)	Westfield Way (2)	George Towne Dr	361	6	2019	2003	0.49	2020
CECELIA DR (01)	Westfield Way (2)	George Towne Dr	264	6	2019	2003	0.49	2020
CHARTER OAK DR	Lindsay Rd	Oak Cir	317	6	2019	2001	0.49	2020
CHESHIRE LN	Quinlan Dr	Cheshire Ct	408	6	2019	1990	0.06	2020
CHESTERWOOD CT	Chesterwood Ln	Termini	211	6	2019	1994	0.23	2020
CHESTERWOOD LN	Chesterwood Ct	Riverbend Ct	370	6	2019	1994	0.04	2020
CHESTERWOOD LN	Riverbend Ct	North Shore Ct	317	6	2019	1994	0.35	2020
CHESTERWOOD LN	North Shore Ct	Turnberry Ct	422	6	2019	1994	0.35	2020
CHESTERWOOD LN	Turnberry Ct	Laureate Dr	581	6	2019	1994	0.35	2020
CHEVIOT DR	Bluestem Ct	Stepping Stone Way	892	6	2019	2011	0.22	2020
DEER CHASE CT	Riverwalk Ct	Termini	211	6	2019	1992	0.04	2020
ELM ST	Oakton Ave	Termini	422	6	2019	1991	0.08	2020
EVERGREEN LN	Wisconsin Ave W	High St	554	6	2019	2004	0.31	2020
EVERGREEN LN	Wisconsin Ave W	High St	951	6	2019	2004	0.31	2020
FOREST GROVE DR	Crossover STH 190	Quail Ct	290	6	2019	1999	0.56	2020
FOREST GROVE DR	Crossover STH 190	Quail Ct	185	6	2019	1999	0.56	2020
FOREST GROVE DR	Quail Ct	Sunnyridge Rd	211	6	2019	1999	0.56	2020
FOREST GROVE DR	Sunnyridge Rd	Willow Grove Dr	898	6	2019	1999	0.56	2020
FOREST GROVE DR	Hickory St	CTH M	264	6	2019	1999	0.56	2020
GREENHAVEN CT	Turnberry Dr	Termini	264	6	2019	1994	0.05	2020
GREENHEDGE RD	Meadowcreek Dr	Willow Grove Dr	950	6	2019	1977	0.18	2020
GREENWOOD CT	Laureate Dr	Termini	264	6	2019	1993	0.05	2020
HICKORY ST	Clark St	Forest Grove Dr	1056	6	2019	2001	1.53	2020
HICKORY ST	Clark St	Forest Grove Dr	370	6	2019	2001	1.53	2020
HICKORY ST	Clark St	Forest Grove Dr	633	6	2019	2005	1.53	2020
HICKORY ST	Clark St	Forest Grove Dr	792	6	2019	2005	1.53	2020
HICKORY ST	Clark St	Forest Grove Dr	264	6	2019	2005	1.53	2020
HIDDEN CREEK CT	Oak Cir	Termini	264	6	2019	2001	0.05	2020
HIGH ST	Evergreen Ln	Park Hill Dr	739	6	2019	1997	0.59	2020
HIGHLAND AVE	Park Ave	Prospect Ave	686	6	2019	1999	0.16	2020
HILLWOOD BLVD	Westfield Way (2)	Majeskie Dr	1056	6	2019	1995	0.65	2020
HILLWOOD BLVD	Majeskie Dr	Zachary Ct	475	6	2019	1995	0.65	2020
HILLWOOD BLVD	Zachary Ct	Jonathan Dr	211	6	2019	1995	0.65	2020
HILLWOOD BLVD	Zachary Ct	Jonathan Dr	211	6	2019	1997	0.65	2020
HILLWOOD BLVD	Jonathan Dr	Overlook Ct	158	6	2019	1997	0.65	2020



HILLWOOD BLVD	Jonathan Dr	Overlook Ct	212	6 2019	1997	0.65 2020
HILLWOOD BLVD	Overlook Ct	Whitetail Ct	317	6 2019	1992	0.65 2020
HILLWOOD BLVD	Whitetail Ct	Hillwood Ct	317	6 2019	1992	0.65 2020
HILLWOOD BLVD	Hillwood Ct	Westfield Way (2)	475	6 2019	1992	0.65 2020
HILLWOOD CT	Hillwood Blvd	Termini	211	6 2019	1992	0.04 2020
HOLLY PATCH CT	Lake Park Dr	Termini	264	6 2019	1993	0.05 2020
ISLE CT	Termini	Wisconsin Ave W	422	6 2019	2002	0.08 2020
JOSHUA CT	Termini	Majeskie Dr	158	6 2019	1997	0.03 2020
KERRY GLEN CT	Carlee Ann Ln	Termini	211	6 2019	1994	0.04 2020
KETTLE WOODS CT	Quinlan Dr	Termini	581	6 2019	1994	0.11 2020
LAKE PARK DR	Meadowlark Ct	North Shore Dr	475	6 2019	1994	0.45 2020
LAKE PARK DR	Laureate Dr	Crossover STH 164	475	6 2019	1992	0.45 2020
LAKE ST	Private	Termini	53	6 2019	1979	0.51 2020
LAKE ST	Houle Cir	Lookout Dr	552	6 2019	1979	0.51 2020
LAKE ST	Houle Cir	Lookout Dr	293	6 2019	2004	0.51 2020
LAKEVIEW CT	Park Hill Dr	Termini	581	6 2019	1973	0.11 2020
LAURELWOOD CT	Arrow Wood Ct	Termini	264	6 2019	1993	0.05 2020
LEANORE CT	Termini	Tower Ct	845	6 2019	1991	0.16 2020
LINDSAY RD	Swan Rd	Turnberry Dr	264	6 2019	2003	0.57 2020
LINDSAY RD	Turnberry Dr	Charter Oak Dr	898	6 2019	2003	0.57 2020
LOOKOUT DR	2nd St	3rd St	528	6 2019	2006	0.53 2020
LOOKOUT DR	Prospect Ave	George St	1320	6 2019	1985	0.71 2020
MAJESKIE DR	Westfield Way (2)	Jonathan Dr	158	6 2019	1995	0.33 2020
MAJESKIE DR	Westfield Way (2)	Jonathan Dr	370	6 2019	1997	0.33 2020
MAJESKIE DR	Jonathan Dr	Joshua Ct	211	6 2019	1997	0.33 2020
MAJESKIE DR	Joshua Ct	Brooke Ct	264	6 2019	1997	0.33 2020
MAJESKIE DR	Brooke Ct	Hillwood Blvd	739	6 2019	1997	0.33 2020
MAJESKIE DR	Park Ave	Spring St	158	6 2019	1999	0.09 2020
MAPLE ST	Spring St	CTH G	317	6 2019	1999	0.09 2020
MAPLE ST	Brandt Ct	Wisconsin Ave E	106	6 2019	2001	0.11 2020
MEADOWCREEK DR	Crossover STH 190	Greenhedge Rd	106	6 2019	2001	0.54 2020
MEADOWCREEK DR	Greenhedge Rd	Sunnyridge Rd	317	6 2019	2001	0.54 2020
MEADOWLARK CT	Lake Park Dr	Termini	106	6 2019	1994	0.02 2020
MEADOWSIDE CT	Park Hill Dr	Termini	898	6 2019	1973	0.17 2020
MORRIS ST	CTH JJ	Ridgeway Dr	898	6 2019	2000	0.43 2020
MORRIS ST	Ridgeway Dr	Evert St	686	6 2019	2000	0.43 2020
MORRIS ST	Ridgeway Dr	Evert St	159	6 2019	2000	0.43 2020
MORRIS ST	Hillwood Blvd	Termini	158	6 2019	1995	0.03 2020
NICOLE CT	Carlee Ann Ln	Laureate Dr	264	6 2019	1993	0.32 2020
NORTH SHORE DR	Laureate Dr	Kingston Ct	264	6 2019	1993	0.32 2020
NORTH SHORE DR	Kingston Ct	Lake Park Dr	317	6 2019	1993	0.32 2020
NORTH SHORE DR	Lake Park Dr	Bending Brae Dr	264	6 2019	1994	0.32 2020
NORTH SHORE DR	Bending Brae Dr	Chesterwood Ln	317	6 2019	1994	0.32 2020
NORTH SHORE DR	Charter Oak Dr	Stony Meadow Cir	475	6 2019	2001	0.55 2020
OAK CIR	Stony Meadow Cir	Ringtail Ct	792	6 2019	2001	0.55 2020
OAK CIR	Ringtail Ct	Hidden Creek Ct	1056	6 2019	2001	0.55 2020
OAK CIR	Hidden Creek Ct	Charter Oak Dr	581	6 2019	2001	0.55 2020
OAK CIR	Park Hill Dr	Termini	634	6 2019	1973	0.12 2020
OAKLAWN CT	Park Hill Dr	Termini	211	6 2019	1999	0.33 2020
OAKTON AVE	Savoy Ct	Termini	211	6 2019	1999	0.33 2020
OAKTON AVE	Elm St	Clark St	106	6 2019	1999	0.33 2020
OAKTON AVE	Elm St	Clark St	845	6 2019	1999	0.33 2020
OAKTON AVE	Clark St	Capitol Dr	475	6 2019	1999	0.33 2020

ORMSBY ST	Capitol Dr	Maiden Ln	792	6 2019	1997	0.15 2020
OVERLOOK CT	Hillwood Blvd	Termini	264	6 2019	1992	0.05 2020
PARK HILL DR	Lakeview Ct	Capitol Dr	422	6 2019	1973	0.54 2020
PARK HILL DR	Lakeview Ct	Capitol Dr	845	6 2019	1997	0.54 2020
PARKLAND CT	Laureate Dr	Termini	317	6 2019	1993	0.06 2020
PARKVIEW CT	Park Hill Dr	Termini	634	6 2019	1973	0.12 2020
POND VIEW CT (01)	Stepping Stone Way	Pond View Ct (2)	613	6 2019	2011	0.19 2020
POND VIEW CT (01)	Pond View Ct (2)	Termini	390	6 2019	2011	0.19 2020
POND VIEW CT (02)	Pond View Ct (1)	Termini	85	6 2019	2006	0.02 2020
QUIETWOOD CT	Westfield Way (2)	Termini	370	6 2019	1992	0.07 2020
QUINLAN CT	Quinlan Dr	Termini	264	6 2019	1990	0.05 2020
QUINLAN DR	Termini	CTH KF	2851	6 2019	1998	0.96 2020
QUINLAN DR	Kettle Woods Ct	Wisconsin Ave W	370	6 2019	2002	0.96 2020
RIDGE CT	Park Hill Dr	Termini	528	6 2019	1973	0.1 2020
RINGTAIL CT	Oak Cir	Termini	211	6 2019	2001	0.04 2020
RIVERBEND CT	Chesterwood Ln	Termini	106	6 2019	1994	0.02 2020
RIVERWALK CT	Deer Chase Ct	Termini	845	6 2019	1992	0.16 2020
RIVERWAY CT	Termini	Westfield Way (2)	845	6 2019	1992	0.16 2020
ROYAL OAK CT	Laureate Dr	Termini	317	6 2019	1992	0.06 2020
SANCTUARY CT	Laureate Dr	Termini	264	6 2019	1993	0.05 2020
SCHOOL ST	Lookout Dr	Unknown	528	6 2019	1967	0.22 2020
SCHOOL ST	Unknown	Pirate Pass	370	6 2019	1979	0.22 2020
STEPPING STONE WAY	Seven Stones Dr	Cheviot Dr	257	6 2019	2011	0.48 2020
STEPPING STONE WAY	Seviot Dr	Pond View Ct (1)	1290	6 2019	2011	0.48 2020
STEPPING STONE WAY	Pond View Ct (1)	Lindsay Rd	949	6 2019	2011	0.48 2020
STONY MEADOW CIR	Oak Cir	Termini	370	6 2019	2001	0.07 2020
SUNNYRIDGE RD	Forest Grove Dr	Willow Grove Dr	1267	6 2019	1987	0.77 2020
SWAN RD	Swan Rd	Broken Hill Blvd	203	6 2019	1985	0.08 2020
TURNBERRY DR	Broken Hill Blvd	Lindsay Rd	220	6 2019	1985	0.08 2020
TURNBERRY DR	Chesterwood Ln	Barrington Ct	475	6 2019	1994	0.42 2020
TURNBERRY DR	Barrington Ct	Greenhaven Ct	528	6 2019	1994	0.42 2020
TURNBERRY DR	Greenhaven Ct	Chesterwood Ct	475	6 2019	1994	0.42 2020
TURNBERRY DR	Chesterwood Ct	Lake Park Ct	317	6 2019	1994	0.42 2020
TURNBERRY DR	Lake Park Ct	Lindsay Rd	422	6 2019	1994	0.42 2020
WESTFIELD CIR	Termini	Westfield Way (2)	317	6 2019	1992	0.06 2020
WESTFIELD WAY (01)	Westfield Way (2)	Termini	158	6 2019	1995	0.03 2020
WESTFIELD WAY (02)	Cecelia Dr (1)	Quietwood Ct	792	6 2019	1992	1.28 2020
WESTFIELD WAY (02)	Quietwood Ct	Hillwood Blvd	422	6 2019	1992	1.28 2020
WESTFIELD WAY (02)	Hillwood Blvd	Westfield Cir	317	6 2019	1992	1.28 2020
WESTFIELD WAY (02)	Westfield Cir	Riverway Ct	422	6 2019	1992	1.28 2020
WESTFIELD WAY (02)	Riverway Ct	Deer Chase Ct	370	6 2019	1992	1.28 2020
WESTFIELD WAY (02)	Deer Chase Ct	Majeskie Dr	898	6 2019	1992	1.28 2020
WESTFIELD WAY (02)	Deer Chase Ct	Majeskie Dr	158	6 2019	1994	1.28 2020
WESTFIELD WAY (02)	Majeskie Dr	Alex Ct	264	6 2019	1994	1.28 2020
WESTFIELD WAY (02)	Alex Ct	Hillwood Blvd	1109	6 2019	1994	1.28 2020
WESTFIELD WAY (02)	Hillwood Blvd	Westfield Way (1)	792	6 2019	1994	1.28 2020
WESTFIELD WAY (02)	Westfield Way (1)	Crossover STH 190	898	6 2019	1994	1.28 2020
WESTFIELD WAY (02)	Westfield Way (1)	Crossover STH 190	317	6 2019	1994	1.28 2020
WHITTAIL CT	Hillwood Blvd	Termini	317	6 2019	1992	0.06 2020
WILLOW GROVE DR	Greenhedge Rd	Crossover STH 190	370	6 2019	2001	0.68 2020
WISCONSIN AVE E	Morris St	Evert St	528	6 2019	2001	1.03 2020
WISCONSIN AVE E	Evert St	Sunset Dr	422	6 2019	2001	1.03 2020

WOODBERRY CT	Barrington Ct	Termini	211	6 2019	1994	0.04 2020
00001ST ST	Lookout Dr	Richmond Dr	475	7 2019	2007	0.09 2020
BRANDT CT	Termini	Maryknoll Dr	792	7 2019	2012	0.15 2020
BROOK CT	Termini	Majestic Dr	158	7 2019	1997	0.03 2020
CAPTOL DR	High St	Park Hill Dr	898	7 2019	2012	0.78 2020
CAPTOL DR	Park Hill Dr	Caldwell St	1478	7 2019	2012	0.78 2020
CECELIA DR	Crossover STH 190	Cecelia Dr (1)	264	7 2019	2013	0.57 2020
CHESTERWOOD LN	Laureate Dr	Crossover STH 164	158	7 2019	1994	0.35 2020
CHEVIOT DR	Aberdeen Dr	Bluestem Ct	271	7 2019	2011	0.22 2020
COSTCO DR	Crossover STH 164	Termini	369	7 2019	2012	0.07 2020
DYNEX DR	Termini	Capitol Dr	739	7 2019	2014	0.14 2020
EVERT ST	Morris St	Wisconsin Ave E	581	7 2019	2010	0.11 2020
GEORGE TOWNE DR	Cecelia Dr (1)	Crossover STH 190	380	7 2019	2003	0.07 2020
HICKORY ST	Clark St	Forest Grove Dr	211	7 2019	2008	1.53 2020
HICKORY ST	Clark St	Forest Grove Dr	2112	7 2019	2008	1.53 2020
HICKORY ST	Forest Grove Dr	Termini	686	7 2019	2000	1.53 2020
JONATHAN DR	Majestic Dr	Hillwood Blvd	792	7 2019	1997	0.15 2020
KINGSTON CT	Unknown	Termini	317	7 2019	1993	0.06 2020
LAKE PARK DR	Lake Park Ct	Carlee Ann Ln	370	7 2019	1994	0.45 2020
LAKE PARK DR	North Shore Dr	Holly Patch Ct	264	7 2019	1992	0.45 2020
LAKE PARK DR	Holly Patch Ct	Laureate Dr	528	7 2019	1992	0.45 2020
LAKE ST	Lookout Dr	Richmond Dr	370	7 2019	2011	0.51 2020
LAKE ST	Richmond Dr	Prospect Ave	370	7 2019	2011	0.51 2020
LAKE ST	Richmond Dr	Prospect Ave	53	7 2019	2011	0.51 2020
LAKE ST	Orchard Ave	Park Ave	528	7 2019	2014	0.51 2020
LAUREATE CT	Laureate Dr	Termini	422	7 2019	1993	0.08 2020
LAUREATE DR	Chesterwood Ln	Bending Brae Ct	686	7 2019	1993	0.63 2020
LAUREATE DR	Bending Brae Ct	Lake Park Dr	370	7 2019	1993	0.63 2020
LAUREATE DR	Lake Park Dr	Royal Oak Ct	317	7 2019	1993	0.63 2020
LAUREATE DR	Royal Oak Ct	Parkland Ct	370	7 2019	1993	0.63 2020
LAUREATE DR	Parkland Ct	Arrow Wood Ct	370	7 2019	1993	0.63 2020
LAUREATE DR	Arrow Wood Ct	Greenwood Ct	317	7 2019	1993	0.63 2020
LAUREATE DR	Greenwood Ct	Laureate Ct	211	7 2019	1993	0.63 2020
LAUREATE DR	Laureate Ct	Sanctuary Ct	317	7 2019	1993	0.63 2020
LAUREATE DR	Sanctuary Ct	North Shore Dr	370	7 2019	1993	0.63 2020
LAUREATE DR	Sunset Dr	Riverside Dr	581	7 2019	2010	0.11 2020
LILAC LN	Sunset Dr	High Rd	423	7 2019	1970	0.57 2020
LINDSAY RD	Sussex St	Sussex St	317	7 2019	2009	0.12 2020
MAIDEN LN	Ormsby St	Wisconsin Ave E	528	7 2019	2000	0.1 2020
MARSHALL ST	Main St	Termini	125	7 2019	2015	0.08 2020
OAKTON CT	Clark St	Private	1434	7 2019	2018	0.28 2020
PIRATE PASS	CTH G	Termini	1056	7 2019	1997	0.2 2020
QUAIL CT	Forest Grove Dr	Termini	686	7 2019	1994	0.96 2020
QUINLAN DR	Cheshire Ln	Kettle Woods Ct	475	7 2019	2000	0.26 2020
RIDGEWAY DR	Morris St	Sunset Dr	792	7 2019	2010	0.29 2020
RIVERSIDE DR	Termini	RidgeWAY Dr	370	7 2019	2010	0.29 2020
RIVERSIDE DR	Lilac Ln	CTH M	211	7 2019	1967	0.22 2020
SCHOOL ST	Prospect Ave	Lookout Dr	422	7 2019	2010	0.3 2020
SUNSET DR	RidgeWAY Dr	Lilac Ln	528	7 2019	2010	0.3 2020
SUNSET DR	Lilac Ln	Wisconsin Ave E	1415	7 2019	2011	0.55 2020
SUSSEX RD	Cecelia Dr	Ole Dairy Dr	1109	7 2019	2011	0.55 2020
SUSSEX RD	Ole Dairy Dr	Lindsay Rd	792	7 2019	2009	0.5 2020
SUSSEX ST	Capitol Dr	Maiden Ln				

TOWER CT	Termini	Leanore Ct	686	7 2019	2014	0.16 2020
WILLOW GROVE DR	Sunnyridge Rd	Greenhedge Rd	686	7 2019	2001	0.68 2020
WISCONSIN AVE W	High St	Main St	1267	7 2019	2002	0.91 2020
CLARK ST	Oakton Ave	Hickory St	317	8 2019	2015	0.19 2020
CLARK ST	Hickory St	Wisconsin Ave E	686	8 2019	2015	0.19 2020
LAKE ST	Prospect Ave	Orchard Ave	370	8 2019	2014	0.51 2020
MORRIS ST	Evert St	Wisconsin Ave E	528	8 2019	2010	0.43 2020
OLE DAIRY DR	Sussex Rd	Termini	1020	8 2019	2011	0.27 2020
RIDGEWAY DR	Sunset Dr	Riverside Dr	898	8 2019	2010	0.26 2020
RIVERSIDE DR	Ridgeway Dr	Lilac Ln	370	8 2019	2010	0.29 2020
SUNSET DR	Termini	Ridgeway Dr	634	8 2019	2010	0.3 2020
TOWER CT	Leanore Ct	3rd St	36	8 2019	2016	0.16 2020
TOWER CT	Leanore Ct	3rd St	122	8 2019	2016	0.16 2020
WISCONSIN AVE E	Oakton Ave	Prospect Ave	792	8 2019	2017	1.03 2020
00003RD ST	Tower Ct	Lookout Dr	212	9 2019	2016	0.11 2020
CECELIA DR	Cecelia Dr (1)	Sussex Rd	2746	9 2019	2017	0.57 2020
CHESHIRE LN	Quinlan Dr	Cheshire Ct	120	9 2019	2017	0.23 2020
CHESHIRE LN	Cheshire Ct	High St	686	9 2019	2017	0.23 2020
EVERGREEN LN	Wisconsin Ave W	High St	132	9 2019	2017	0.31 2020
MEADOWCREEK DR	Crossover STH 190	Greenhedge Rd	264	9 2019	2018	0.54 2020
SUSSEX RD	Cecelia Dr	Ole Dairy Dr	380	9 2019	2017	0.55 2020
00003RD ST	Lookout Dr	Richmond Dr	370	10 2019	2019	0.11 2020
CALDWELL ST	Capitol Dr	Maiden Ln	739	10 2019	2019	0.14 2020
LOOKOUT DR	3rd St	Termini	1056	10 2019	2018	0.53 2020
MAIDEN LN	Caldwell St	Ormsby St	317	10 2019	2019	0.12 2020
SPRING ST	Termini	Maple St	211	10 2019	2019	0.18 2020
SPRING ST	Maple St	Prospect Ave	739	10 2019	2019	0.18 2020